



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

May 2025

June 30, 2025

Alberta Environment and Protected Areas

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

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

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of May 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 May 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 one 30min reading above TRS AAAQG (5ppb)
- There were 13, 1hr readings above the PM_{2.5} AAAQG (80µg/m³)
- There was one, 24hr reading above the PM_{2.5} AAAQO (29µg/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	18-May-25	03:00	03:30	7.4	2.0	200

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
Beaverlodge	-	PM _{2.5}	2025-05-29	12:00	13:00	97.9	26.5	288
Beaverlodge	-	PM _{2.5}	2025-05-29	13:00	14:00	82.2	24.8	298
Beaverlodge	-	PM _{2.5}	2025-05-29	15:00	16:00	229.7	14.3	274
Dunes	-	PM _{2.5}	2025-05-29	13:00	14:00	84.7	9.0	297
Dunes	-	PM _{2.5}	2025-05-29	14:00	15:00	84.4	5.6	309
Henry Pirker	-	PM _{2.5}	2025-05-29	14:00	15:00	137.8	14.9	293
Smoky Heights	440427	PM _{2.5}	2025-05-05	21:00	22:00	80.3	13.7	264
Smoky Heights	-	PM _{2.5}	2025-05-09	21:00	22:00	86.8	10.1	251
Smoky Heights	441315	PM _{2.5}	2025-05-23	16:00	17:00	118.8	8.1	355
Smoky Heights	441315	PM _{2.5}	2025-05-23	19:00	20:00	105.5	12.0	321
Happy Valley	440331	PM _{2.5}	2025-05-02	05:00	06:00	85.0	2.2	195
Happy Valley	-	PM _{2.5}	2025-05-12	01:00	02:00	130.9	4.2	251
Happy Valley	-	PM _{2.5}	2025-05-12	23:00	00:00	84.7	2.6	230

Readings above the 24hr PM_{2.5} AAAQO (29µg/m³) recorded as follows:

Site	reference	Pollutant	Date	Average µg/m ³	WS km/hr	WD degrees
Smoky Heights	441315	PM _{2.5}	2025-05-23	30.0	8.0	342

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

Site	reference	Pollutant	Date	Average ppb
Kakwa 3	442194	SO ₂ Passive	May 2025	16.6
Kakwa 4	442195	SO ₂ Passive	May 2025	12.3

Operational times less than 90 percent

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

Air Incidents

Wildfires caused elevated smoke (particulate matter) in the region through the month

Deviations from Authorized Monitoring Methods

Wildfire bulk reporting protocol in place, only 24hr readings need reporting.

Passive Monitoring

- 54 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories
 - Field notes indicated:
 - Boone Creek site had ditch brush removal and knocked station down, NO₂ passive could not be found
 - Deer Mountain, samples could not be collected as wildfires closed the road to the site. Samples for May have been left in the field
 - Duvernay 2 site had passives exposed over two months due to access reasons in April.

There were 19 duplicates sampled in the month of May:

- Eight SO₂ duplicates located at Hythe, Sylvester, Clouston Creek, Little Smoky, Duvernay 3, Kakwa 2, Milner Ambient Trailer, Jayar3 Bone Yard
 - RPD ranging from 1% to 28% (no fails)
 - Milner 9B (ambient trailer site) had one sample 0.1ppb and one <0.1ppb
 - Kakwa 3 and Kakwa 4 were both above the AAAQO of 11ppb for the month
- One O₃ duplicate at Crooked Creek
 - RPD of 11% (no fail)
- Seven NO₂ duplicates at Hythe, Poplar, Wanham, Peavine, Kakwa 1, Milner Powerline, Jayar4 7-8 or 8-8 Pad
 - RPD ranging from 0% to 11% (no fails)
- Three H₂S duplicates at Duvernay 3, Kakwa 3, Jayar5 Camp
 - RPD ranging from 0% to 84% (one fails, Duvernay 3 site with 0.1ppb and 0.04ppb readings)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 23.5 to 99.2 mg/100cm²/30day
- RPD was 3 to 13% (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.

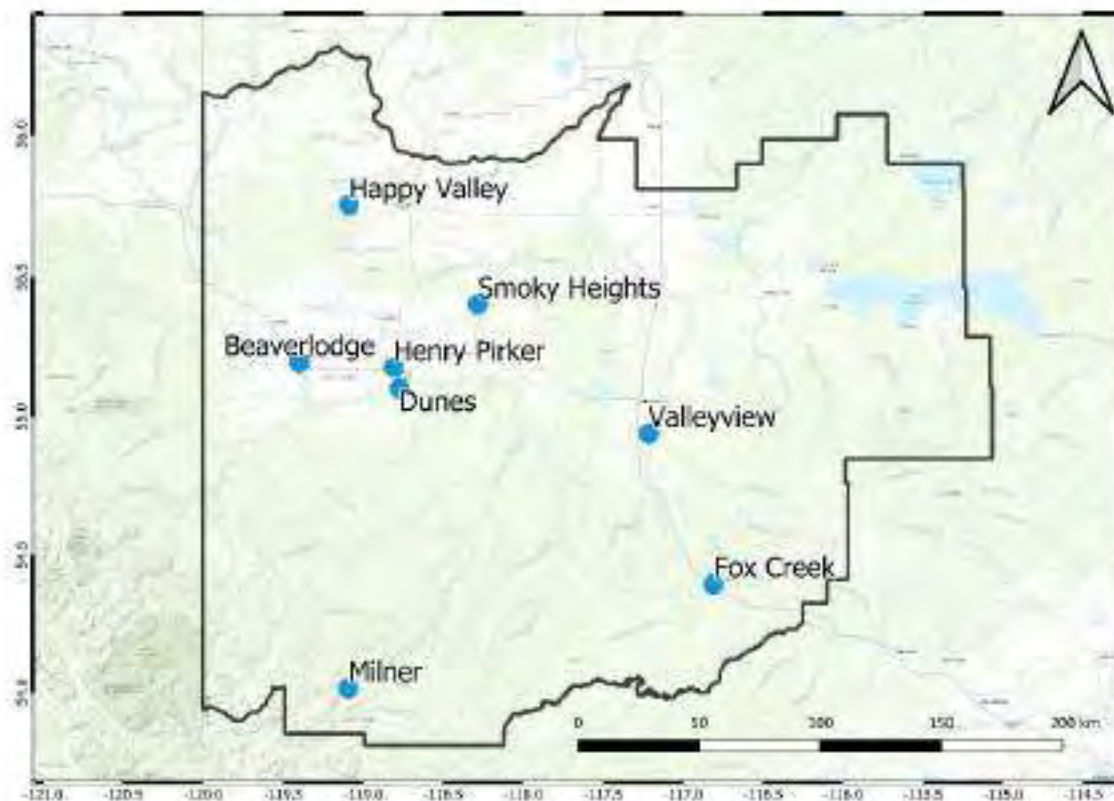


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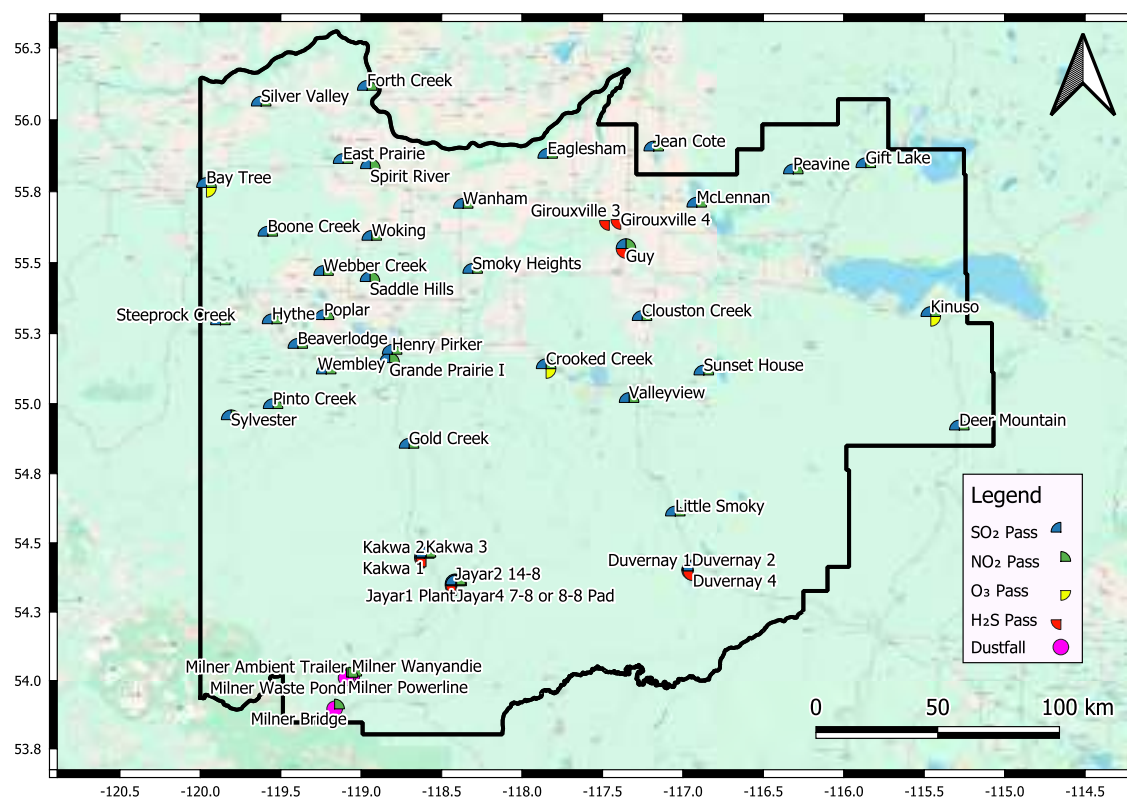
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 May 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 - May 2025 Beaverlodge Station Report

May					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.3	0.0	94.8%	100.0%	11.4	-	May-17 07:00	1.0	-	May-17	-	-	-	-	May 21, 2025
NO ₂ (ppb)	2.3	0.3	94.8%	100.0%	14.5	159	May-17 07:00	4.0	-	May-17	0	-	-	-	May 21, 2025
NO _x (ppb)	2.6	0.3	94.8%	100.0%	25.9	-	May-17 07:00	5.0	-	May-17	-	-	-	-	May 21, 2025
O ₃ (ppb)	36.2	6.0	95.3%	100.0%	62.3	76	May-02 18:00	45.7	-	May-02	0	-	-	-	May 21, 2025
PM _{2.5} (µg/m³)	4.1	0.4	99.6%	99.9%	229.7	80	May-29 16:00	22.6	29	May-29	3	-	0	-	May 20, 2025
SO ₂ (ppb)	0.3	0.0	95.0%	99.9%	8.4	172	May-28 21:00	1.9	48	May-28	0	-	0	0	May 20, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.5	0.0	99.9%	99.9%	31.6	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	44.6	9.1	99.7%	99.7%	99.4										
WS (km/hr)	11.4	0.3	99.9%	99.9%	37.4										
WD (deg)	254	0.6	99.9%	99.9%	359.6	Average Wind Direction		254	WSW						

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42iQ	No operational issues noted during the month
O ₃	Thermo	49iQ	No operational issues noted during the month
PM _{2.5}	API	T640	May 21, missing data during other analyzer calibrations (1hr); May 29, 3x1hr readings above AAAQG
SO ₂	Thermo	43i-TLE	May 21, missing data during other analyzer calibrations (1hr)
Met Equip	MetOne	50.5	May 21, missing data during other analyzer calibrations (1hr), relative humidity (2hrs)

1.2 Dunes Air Monitoring Station

PAZA - May 2025 Dunes Station Report

Parameter	May				30min / 1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m³)	4.4	0.0	99.3%	99.7%	84.7	80	May-29 14:00	16.9	29	May-29	2	-	0	-	May-12-2025
SO ₂ (ppb)	0.4	0.0	95.0%	99.7%	25.5	172	May-02 10:00	2.7	48	May-02	0	-	0	0	May-12-2025
TRS (ppb)	0.5	0.1	95.0%	99.7%	4.0	5	May-07 02:00	0.8	3	May-25	0	-	0	-	May-12-2025
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	12.9	-2.2	99.7%	99.7%	32.4										
RH (%)	45.9	8.9	99.7%	99.7%	99.9										
WS (km/hr)	4.0	0.0	99.7%	99.7%	12.8										
WD (deg)	238	0.9	99.7%	99.7%	358.5	Average Wind Direction238WSW									

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	SHARP 5030	May 31, data comm failure, 2hrs removed
SO ₂	Thermo	43i	May 31, data comm failure, 2hrs removed
TRS	Thermo	43i	May 31, data comm failure, 2hrs removed
Met Equip	GII/RMYoung	MetPak/RMY86004	May 31, data comm failure, 2hrs removed

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - May 2025 Henry Pirker Station Report

Parameter	May				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	93.4%	98.1%	40.2	-	May-01 06:00	3.6	-	May-01	-	-	-	-	May 01, 2025
NO ₂ (ppb)	5.0	0.7	93.4%	98.1%	28.4	159	May-02 08:00	10.0	-	May-01	0	-	-	-	May 01, 2025
NO _x (ppb)	5.9	0.8	93.4%	98.1%	65.7	-	May-01 06:00	13.7	-	May-01	-	-	-	-	May 01, 2025
O ₃ (ppb)	34.1	1.2	93.7%	98.1%	60.4	76	May-02 14:00	43.4	-	May-03	0	-	-	-	May 01, 2025
PM _{2.5} (µg/m³)	4.6	0.7	98.1%	98.3%	137.8	80	May-29 15:00	18.2	29	May-29	1	-	0	-	May 01, 2025
SO ₂ (ppb)	0.3	0.0	93.7%	98.1%	10.3	172	May-02 11:00	0.7	48	May-26	0	-	0	0	May 01, 2025
H ₂ S (ppb)	0.2	0.0	93.6%	98.1%	6.7	10	May-09 04:00	0.9	3	May-09	0	-	0	-	May 02, 2025
CH ₄ (ppm)	2.3	2.2	93.6%	98.1%	3.8	-	May-09 04:00	2.5	-	May-09	-	-	-	-	May 08, 2025
THC (ppm)	2.3	2.1	93.6%	98.1%	3.8	-	May-09 04:00	2.5	-	May-09	-	-	-	-	May 08, 2025
NMHC (ppm)	0.0	0.0	93.6%	98.1%	0.2	-	May-02 00:00	0.0	-	May-01	-	-	-	-	May 08, 2025
CO (ppm)	0.1	0.1	93.3%	98.1%	0.4	13	May-29 15:00	0.2	5	May-01	0	0	-	-	May 08, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	13.9	-0.8	98.1%	98.1%	32.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	44.1	9.9	98.1%	98.1%	87.7										
SR (W/m²)	224.2	0.0	98.1%	98.1%	846.5										
WS (km/hr)	7.5	0.2	95.4%	95.6%	28.7										
WD (deg)	251	0.6	95.4%	95.6%	356.9										
Average Wind Direction									251	WSW					
															Dec 12, 2024
															Dec 12, 2024
															Dec 12, 2024
															Dec 12, 2024
															Dec 12, 2024

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
O ₃	TECO	49i	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
PM _{2.5}	API	T640	May 2-3, power failure, 12hrs removed; May 9, data missing due to changing wind sensor, 1hr removed; May 29, 1x1hr reading above AAAQG
SO ₂	Thermo	43i-TLE	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
H ₂ S	TEI	450i	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
THC/CH ₄ /NMHC	TEI	55i	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
CO	Thermo	48i-TLE	May 2-3, power failure, 13hrs removed; May 9, data missing due to changing wind sensor, 1hr removed
Met Equip	MetOne	50.5	May 2-3, power failure, 12hrs removed; May 8-9, tower removed for repair and wind sensor changed, RM Young 05305VK, s/n:WM213324 (21hrs maintenance, 1hr calibration)

1.4 Smoky Heights Air Monitoring Station

PAZA - May 2025 Smoky Heights Station Report

Parameter	May				30min / 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/m³)	8.4	0.0	99.5%	99.6%	118.8	80	May-23 17:00	30.0	29	May-23	4	-	1	-	May 14, 2025
SO ₂ (ppb)	0.2	0.0	94.8%	99.6%	3.3	172	May-10 07:00	0.6	48	May-10	0	-	0	0	May 14, 2025
TRS (ppb)	0.1	0.0	94.6%	99.6%	0.6	5	May-24 04:00	0.2	3	May-09	0	-	0	-	May 14, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.8	-2.0	99.6%	99.6%	30.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	11.0	0.8	92.6%	92.6%	33.0										
WD (deg)	245	0.3	92.6%	92.6%	359.9										
Average Wind Direction									245	WNW					
															Oct 10, 2024
															Oct 10, 2024

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	May 15-16, 3hrs removed due to communication failure, while working at station on wind sensor; 4x1hr readings above AAAQG and 1x24hr reading above AAAQO
SO ₂	TECO	43i	May 15-16, 3hrs removed due to communication failure, while working at station on wind sensor
TRS	TEI	43i APSAA	May 15-16, 3hrs removed due to communication failure, while working at station on wind sensor
Met Equip	MetOne	50.5	May 14, 9hrs maintenance on wiring and install of wind sensor; May 15, trouble shooting issues with wrong wind speeds, unit removed and 50.5 sonic unit re-installed; May 14-16, 46hrs removed due to invalid wind speeds

1.5 Valleyview Air Monitoring Station

PAZA - May 2025 Valleyview Station Report

Parameter	May				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%	99.9%	3.8	172	May-03 10:00	0.3	48	May-28	0	-	0	0	May 29, 2025
H ₂ S (ppb)	0.1	0.0	95.0%	99.9%	0.5	10	May-28 15:00	0.2	3	May-21	0	-	0	-	May 29, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	13.2	-2.0	99.9%	99.9%	31.6	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	53.9	11.1	99.9%	99.9%	100.0										
WS (km/hr)	4.1	0.0	99.9%	99.9%	17.3										
WD (deg)	221	0.6	99.9%	99.9%	359.7	Average Wind Direction 221 NW									

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43i-APSCB	May 24, communication issue, 1hr data missing
H ₂ S	TEI	450i-APHAA / 43C	May 24, communication issue, 1hr data missing; May 29 removal calibration performed to change SO _x scrubber, no issues noted with install calibration
Met Equip	RMYoung	RMYS86004	May 24, communication issue, 1hr data missing

1.6 Fox Creek Air Monitoring Station

PAZA - May 2025 Fox Creek Station Report

Parameter	May				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)	3.3	0.0	95.2%	100.0%	33.3	-	May-14 06:00	7.2	-	May-28	-	-	-	-	May 28, 2025
NO ₂ (ppb)	5.8	0.3	95.2%	100.0%	25.2	159	May-07 05:00	8.6	-	May-28	0	-	-	-	May 28, 2025
NO _x (ppb)	9.4	0.3	95.2%	100.0%	55.1	-	May-07 05:00	16.1	-	May-28	-	-	-	-	May 28, 2025
O ₃ (ppb)	30.9	0.3	95.4%	100.0%	59.4	76	May-02 15:00	43.1	-	May-02	0	-	-	-	May 28, 2025
PM _{2.5} (µg/m ³)	4.7	1.0	99.9%	100.0%	29.4	80	May-29 20:00	9.9	29	May-29	0	-	0	-	May 28, 2025
SO ₂ (ppb)	1.0	0.0	95.3%	100.0%	96.7	172	May-02 08:00	11.4	48	May-02	0	-	0	0	May 28, 2025
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	1.1	10	May-02 08:00	0.2	3	May-28	0	-	0	-	May 28, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.2	-1.3	100.0%	100.0%	30.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	6.2	0.2	100.0%	100.0%	21.2										
WD (deg)	209	1.4	100.0%	100.0%	358.8	Average Wind Direction 209 SSW									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	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	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 - May 2025 Happy Valley Station Report

May			30min / 1-hour					24-hour		Exceedance					Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	ix Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	1.0	0.0	95.3%	100.0%	38.5	-	May-28 06:00	6.3	-	May-19	-	-	-	-	May 23, 2025
NO ₂ (ppb)	3.5	0.3	95.3%	100.0%	25.5	159	May-24 21:00	7.4	-	May-23	0	-	-	-	May 23, 2025
NO _x (ppb)	4.5	0.3	95.3%	100.0%	57.4	-	May-28 06:00	13.1	-	May-19	-	-	-	-	May 23, 2025
O ₃ (ppb)	34.7	1.2	95.3%	100.0%	60.0	76	May-07 16:00	46.2	-	May-02	0	-	-	-	May 23, 2025
PM _{2.5} (µg/m³)	12.0	0.8	99.7%	100.0%	130.9	80	May-12 02:00	25.0	29	May-02	3	-	0	-	May 23, 2025
SO ₂ (ppb)	0.4	0.0	95.4%	100.0%	7.4	172	May-29 04:00	0.9	48	May-29	0	-	0	0	May 23, 2025
TRS (ppb)	0.4	0.1	95.2%	100.0%	7.4	5	May-18 03:30	0.5	-	May-18	1	-	0	-	May 27, 2025
THC (ppm)	2.1	1.9	91.7%	96.5%	2.9	-	May-18 04:00	2.2	-	May-18	-	-	-	-	May 27, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.4	-1.1	100.0%	100.0%	30.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	11.5	0.8	100.0%	100.0%	31.2										
WD (deg)	243	3.8	100.0%	100.0%	359.0										
Average Wind Direction										243	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; 3x1hr readings above the AAAQG
SO ₂	TEI	43i	No operational issues noted in the month
TRS	TEI	43i	No operational issues noted in the month; 1x30min readings above the AAAQG
THC	TEI	51i	May 27, analyzer shutdown calibration for removal of WSP 51i (s/n:102843390), column conditioning overnight before install startup; May 28, install of PAZA THC 55i (s/n:1134650658), however issues with stability, so second PAZA THC 55i (s/n: 1151980005) was installed (20hrs removed, 6hrs maintenance)
Met Equip	MetOne	50.5	No operational issues noted in the month

1.8 Milner Air Monitoring Station

PAZA - May 2025 Milner Station Report

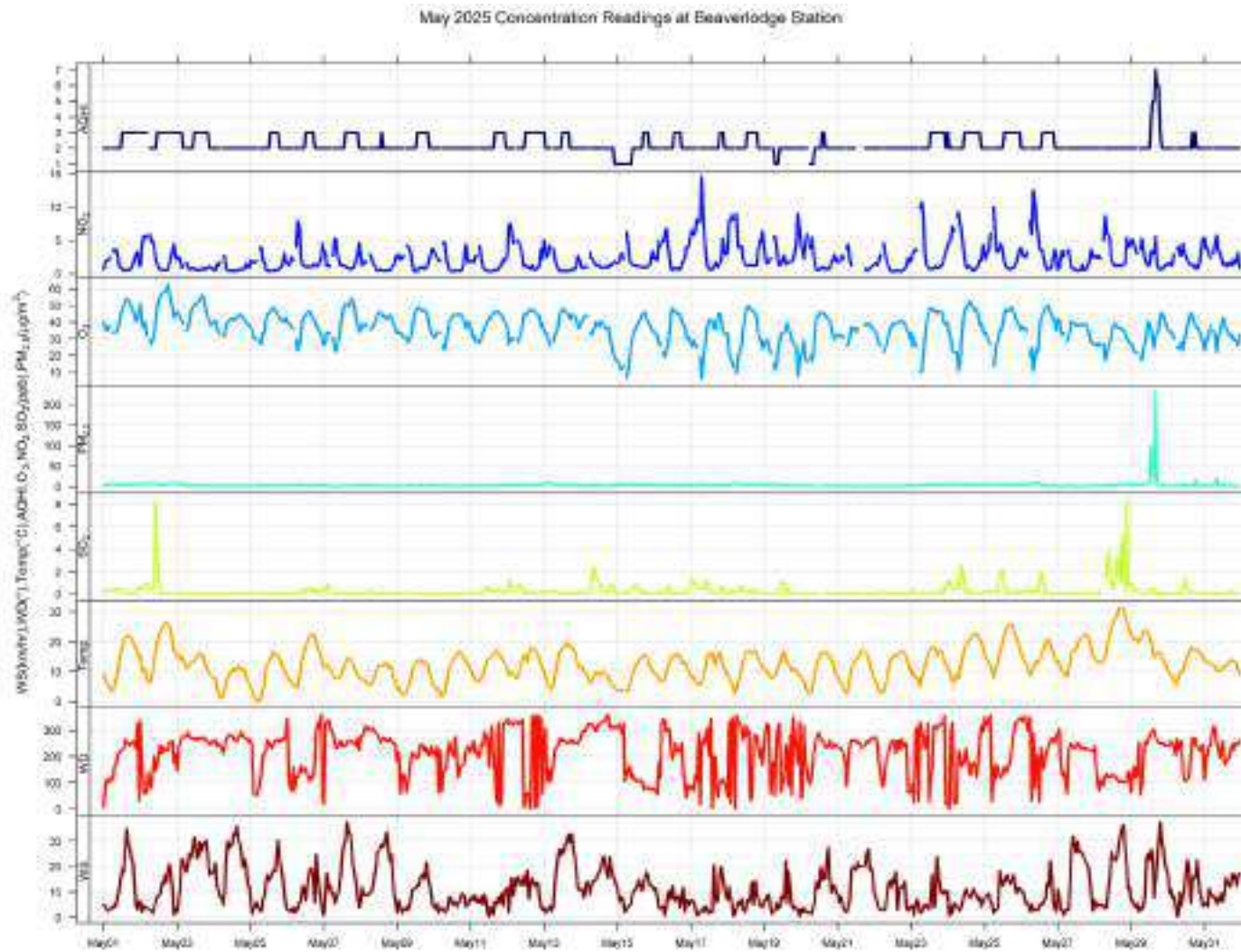
May					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.4	0.0	94.9%	99.9%	15.9	-	May-25 08:00	2.0	-	May-25	-	-	-	-	May 29, 2025
NO ₂ (ppb)	2.0	0.0	94.9%	99.9%	15.1	159	May-25 08:00	5.2	-	May-25	0	-	-	-	May 29, 2025
NO _x (ppb)	2.5	0.0	94.9%	99.9%	31.2	-	May-25 08:00	7.3	-	May-25	-	-	-	-	May 29, 2025
PM _{2.5} (µg/m³)	3.6	0.4	99.7%	100.0%	27.0	80	May-24 05:00	8.5	29	May-25	0	-	0	-	May 29, 2025
	Average	Minimum	Valid	Operational	Maximum										
WS (km/hr)	6.6	0.4	100.0%	100.0%	24.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WD (deg)	245	1.9	100.0%	100.0%	359.5										
Average Wind Direction									245 WSW						

Update Summary:

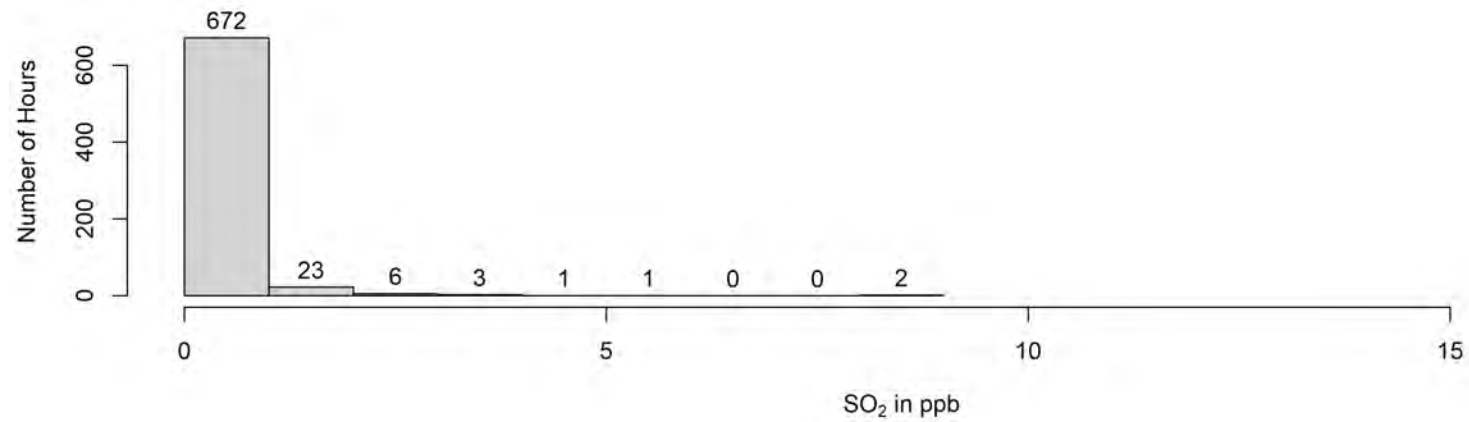
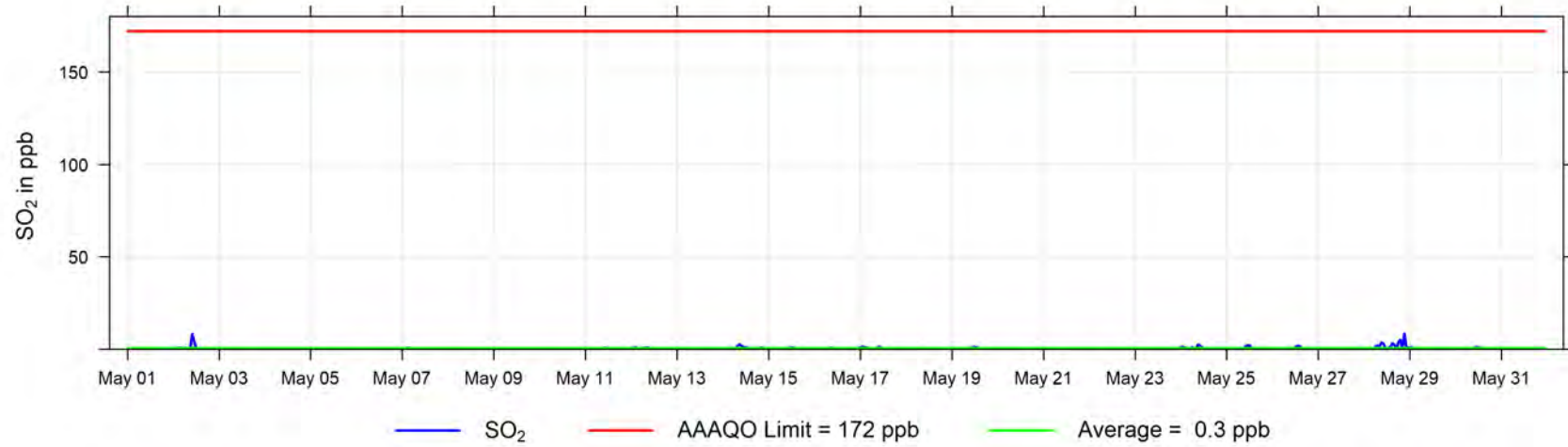
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	May 21, daily span failed to run, ran later in morning, no issues noted, 1hr removed
PM _{2.5}	API	T640	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

2 Beaverlodge Charts

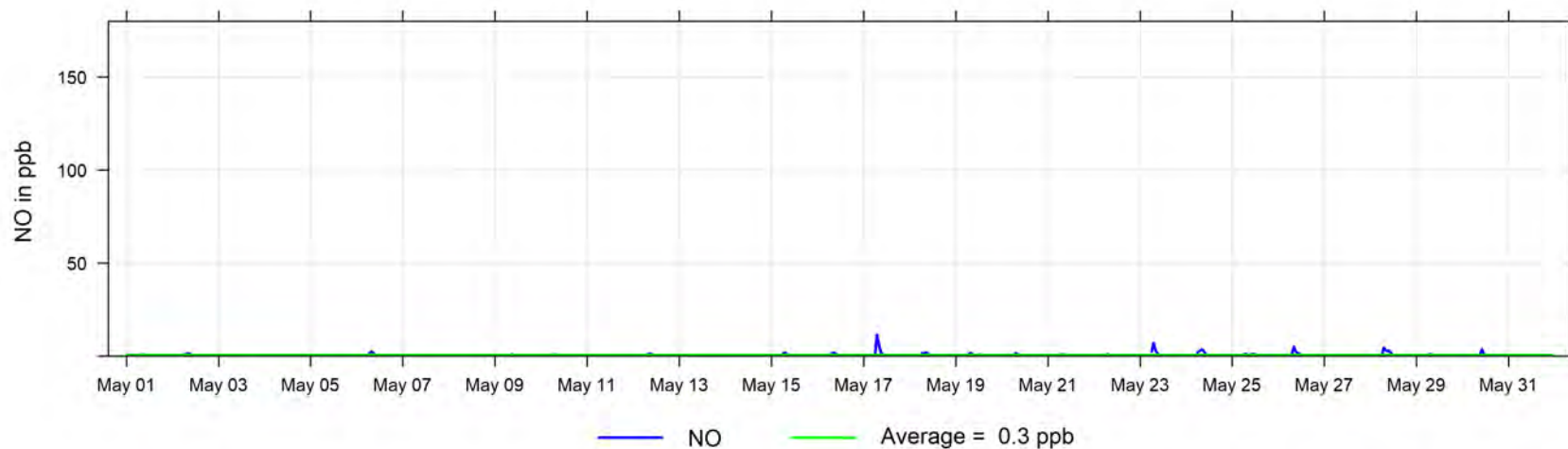
The following pages include the charts and histograms for Beaverlodge Station



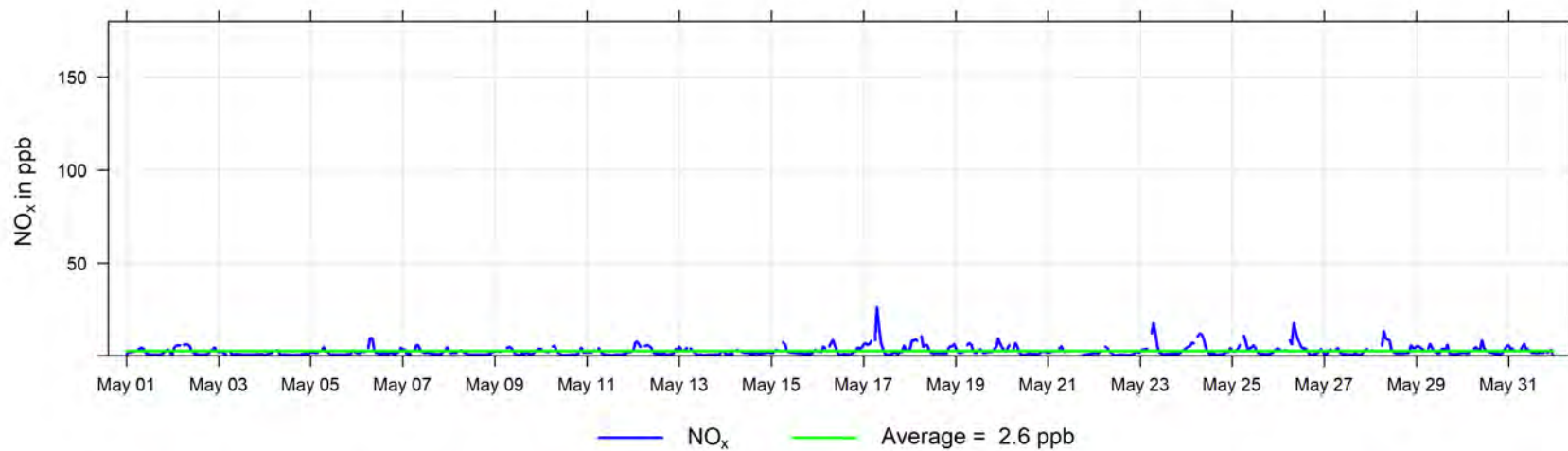
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



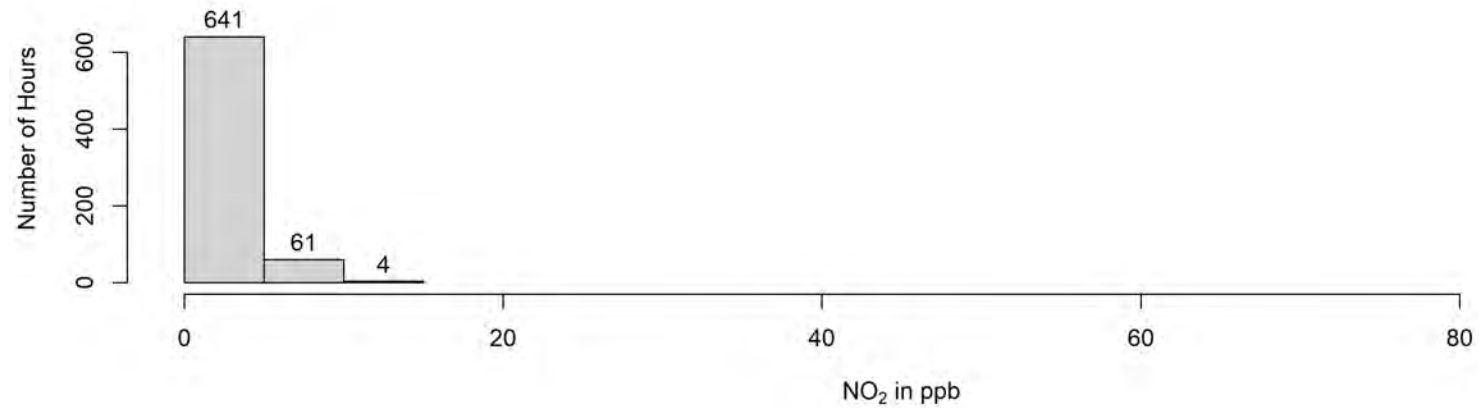
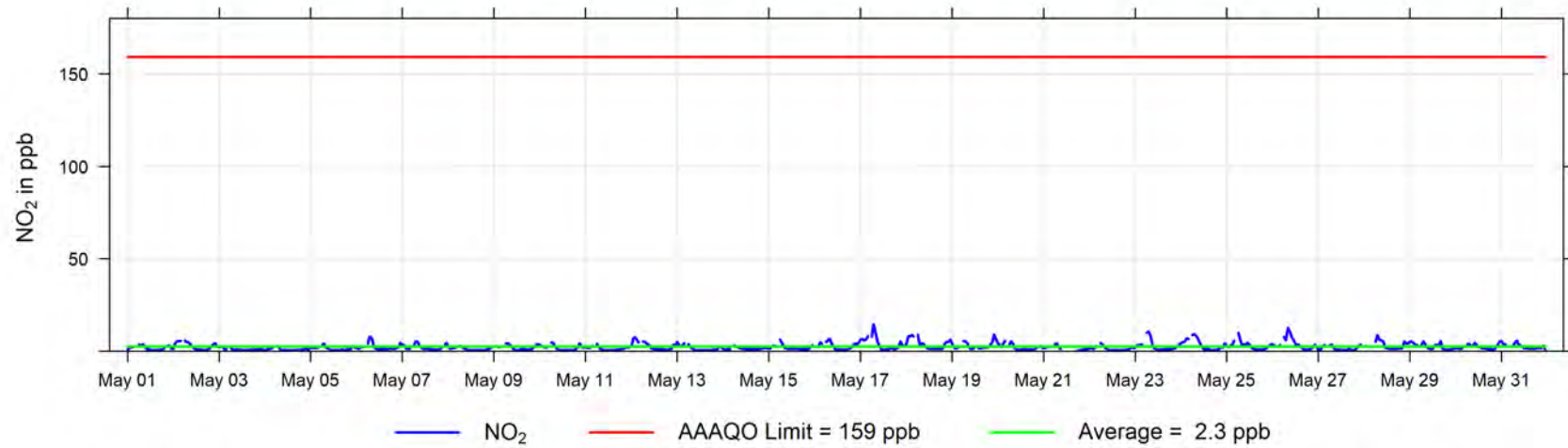
May 2025 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



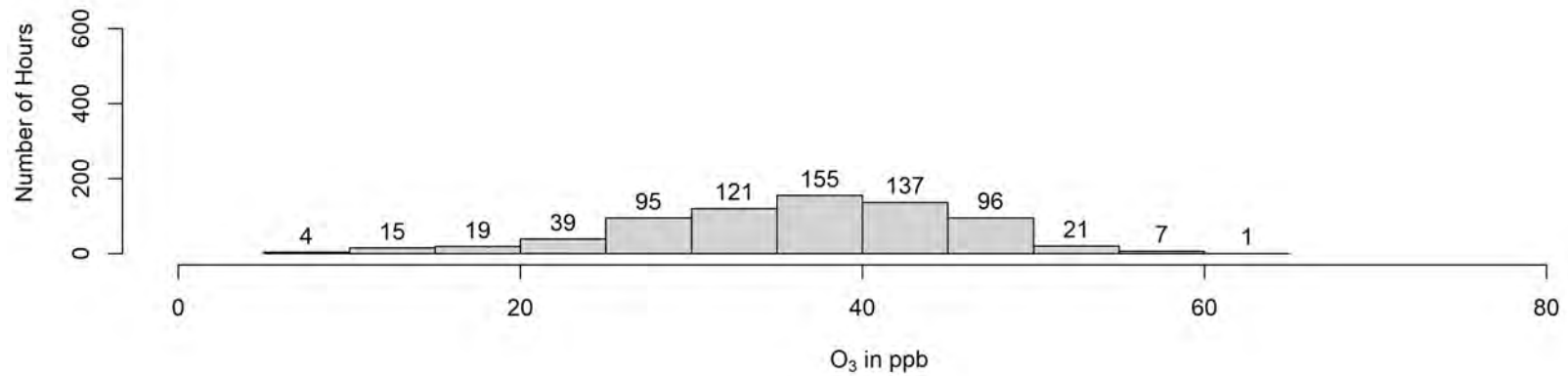
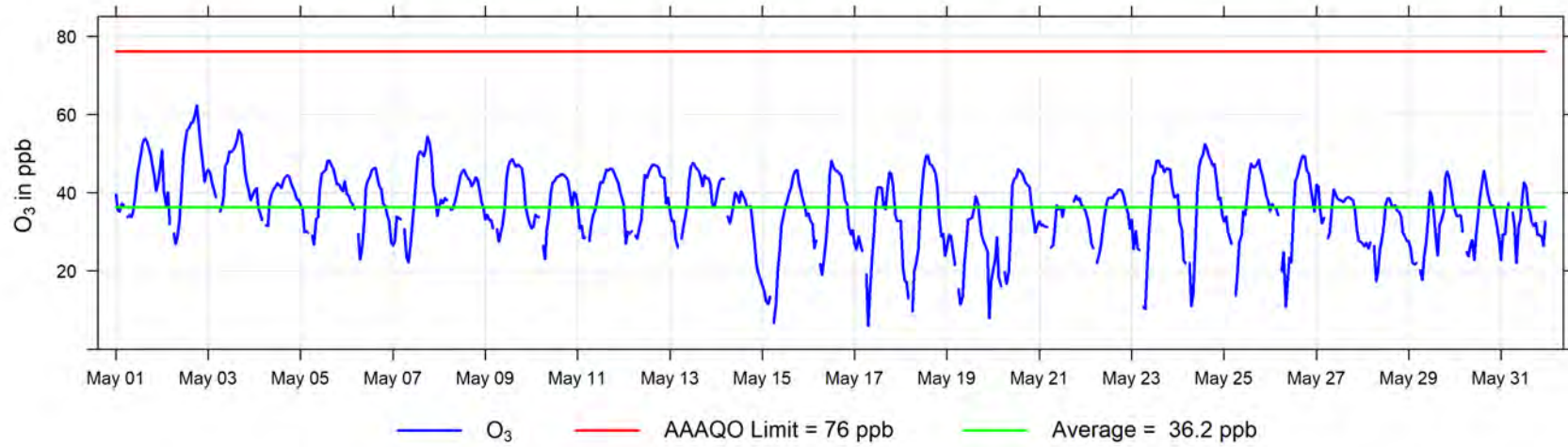
May 2025 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



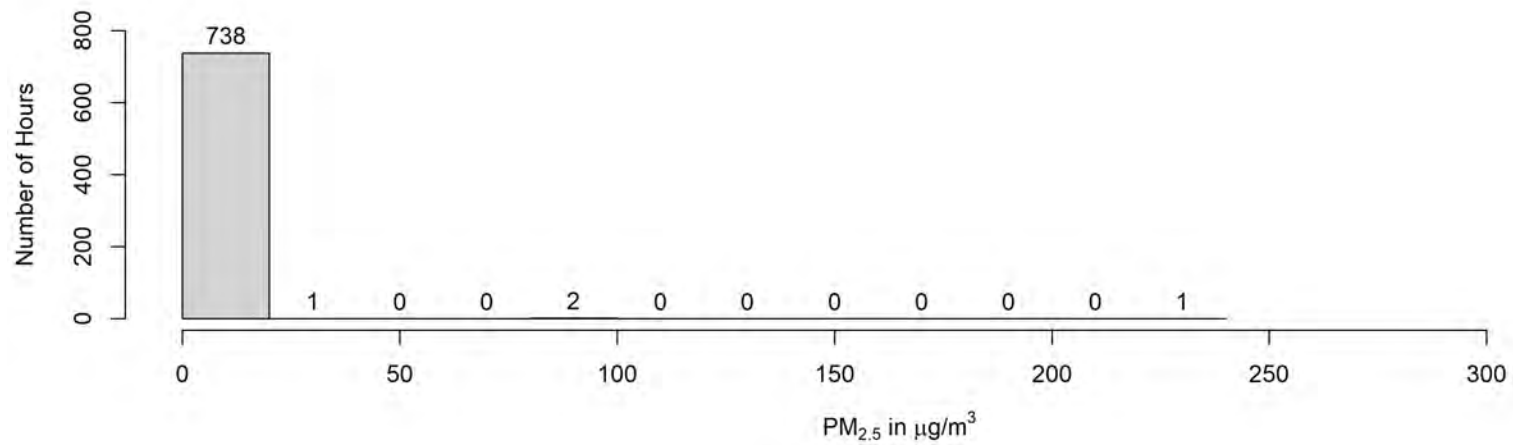
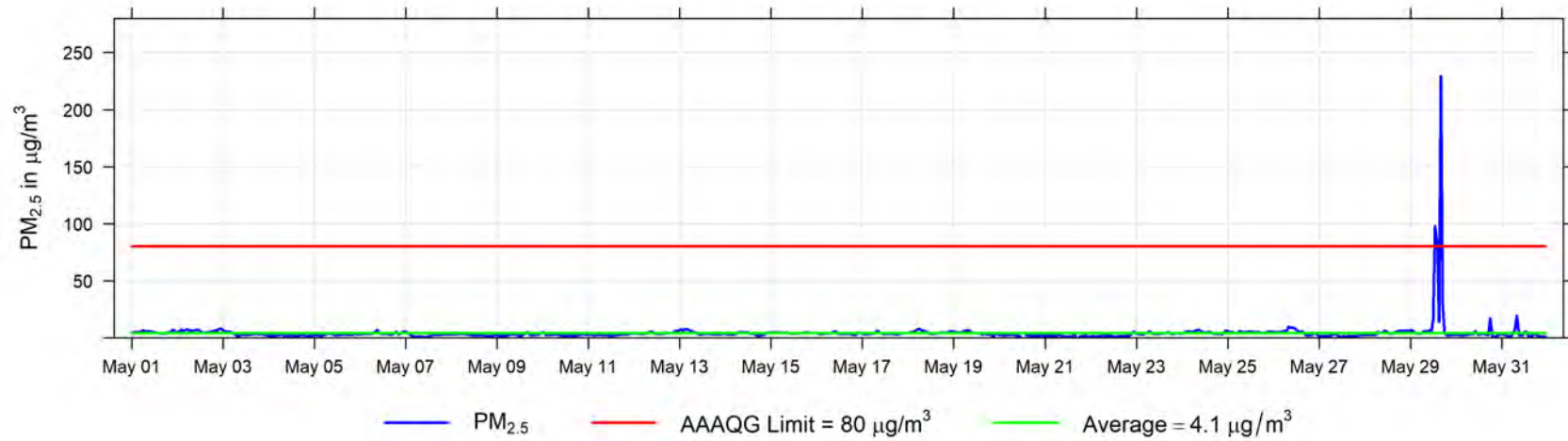
May 2025 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



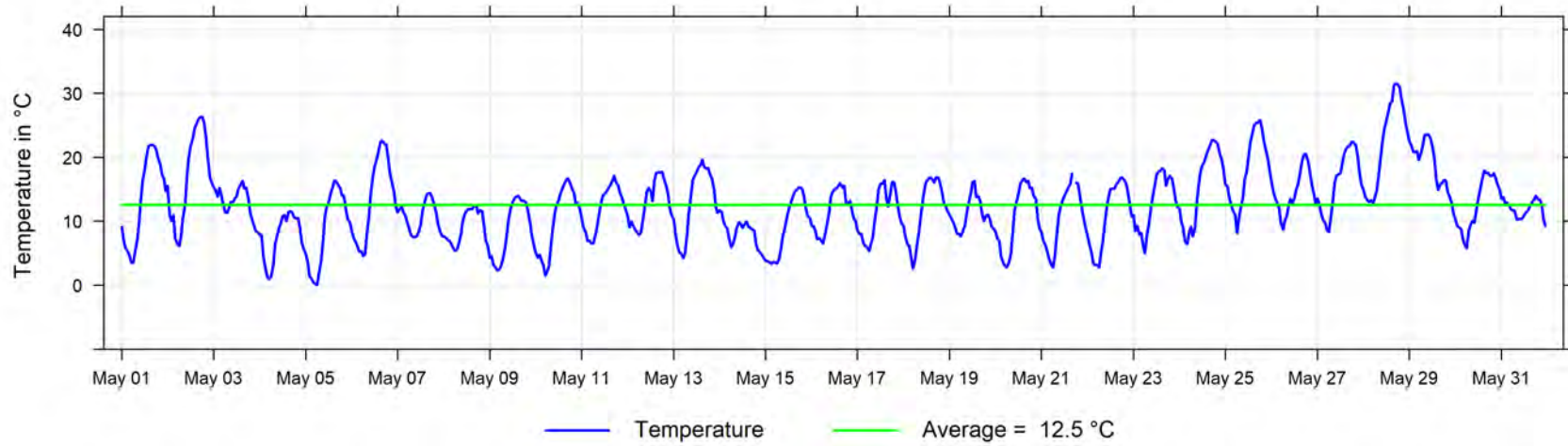
May 2025 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



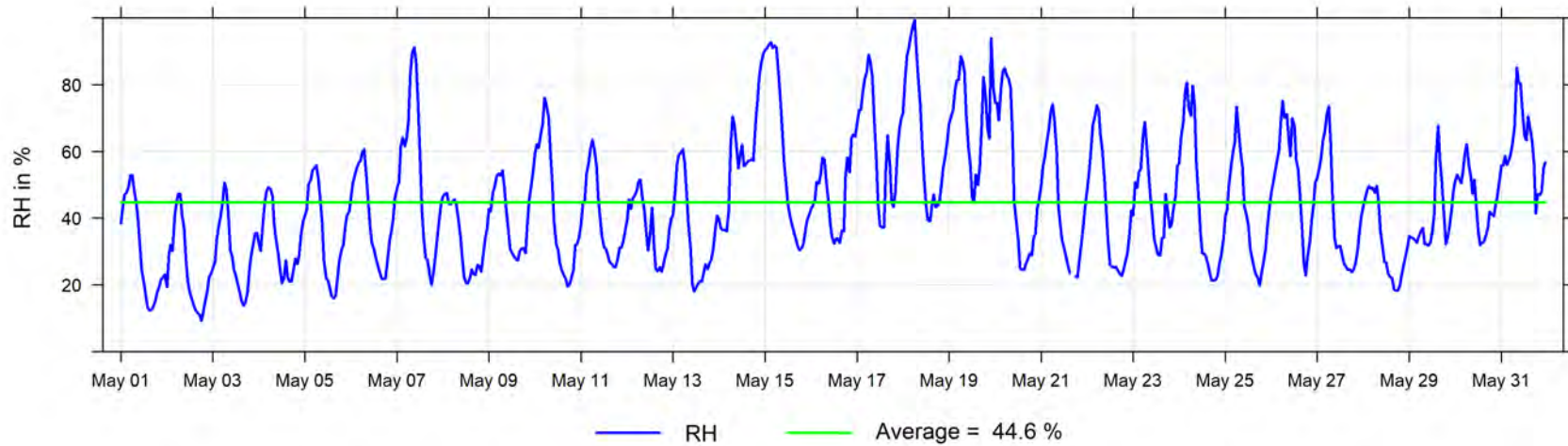
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



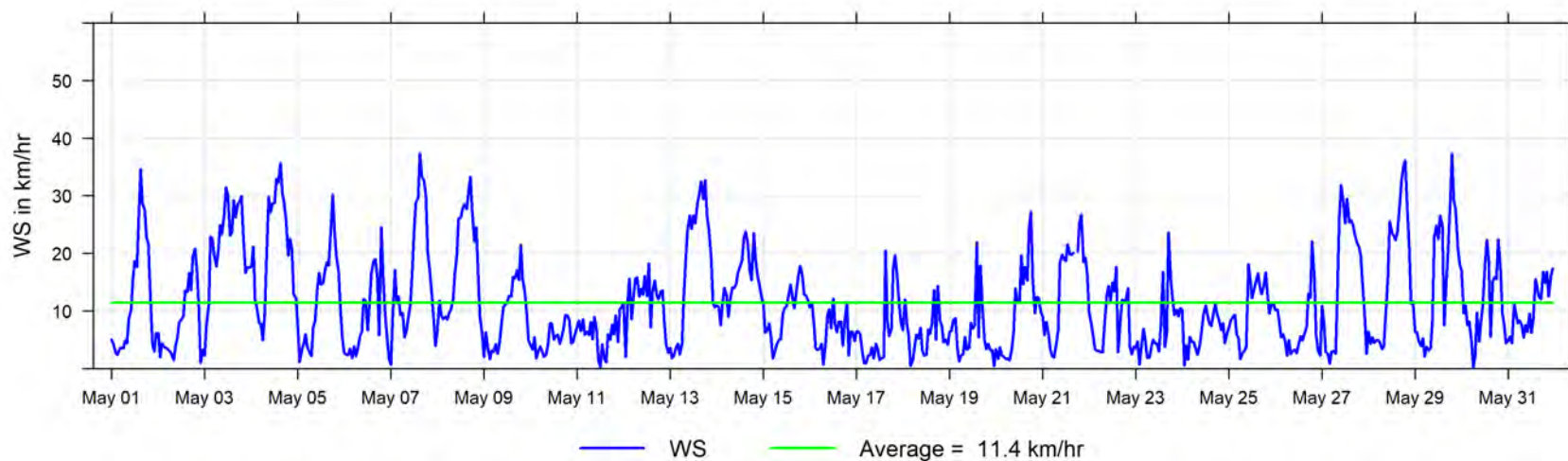
May 2025 Hourly Temperature Readings (in °C) at Beaverlodge



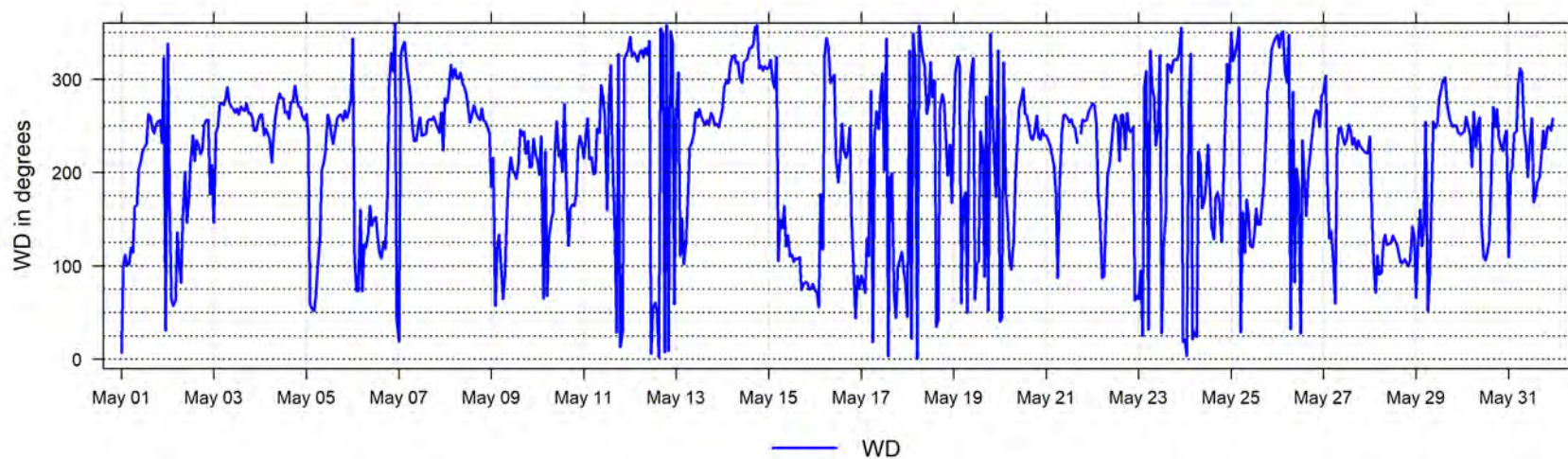
May 2025 Hourly Readings of Relative Humidity (in %) at Beaverlodge



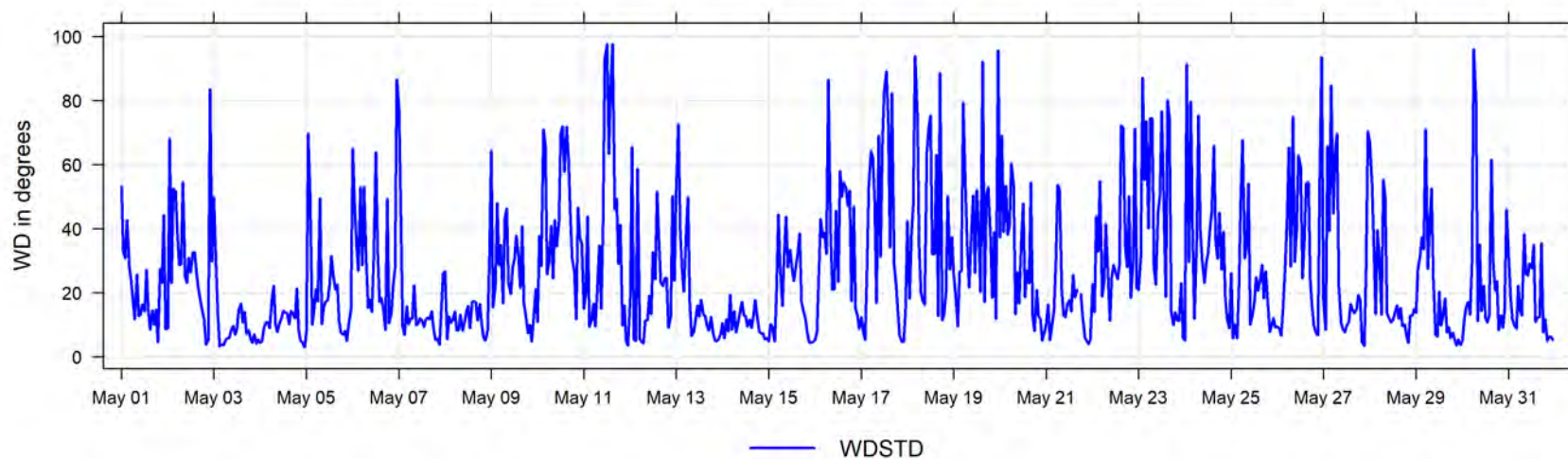
May 2025 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge



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

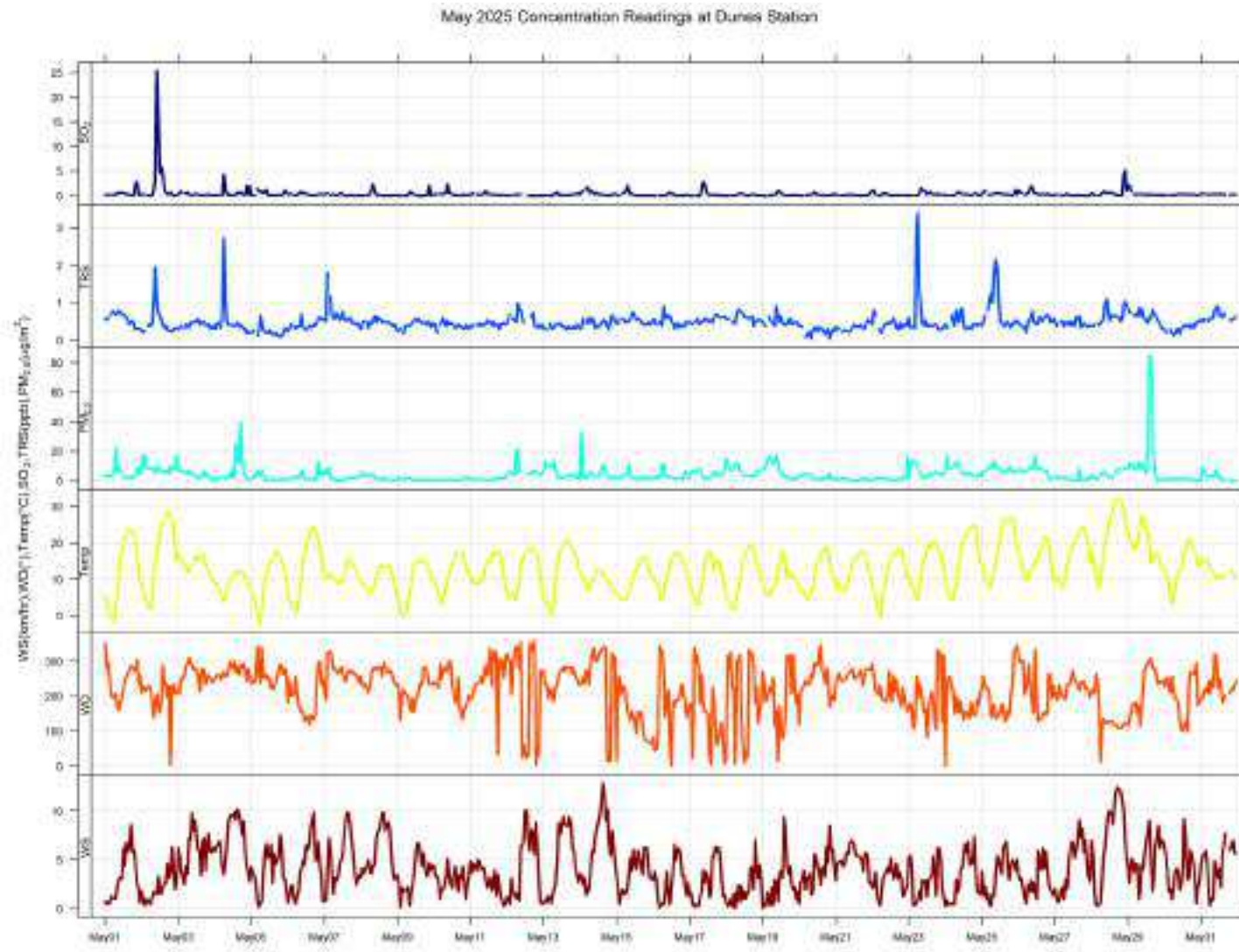


May 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

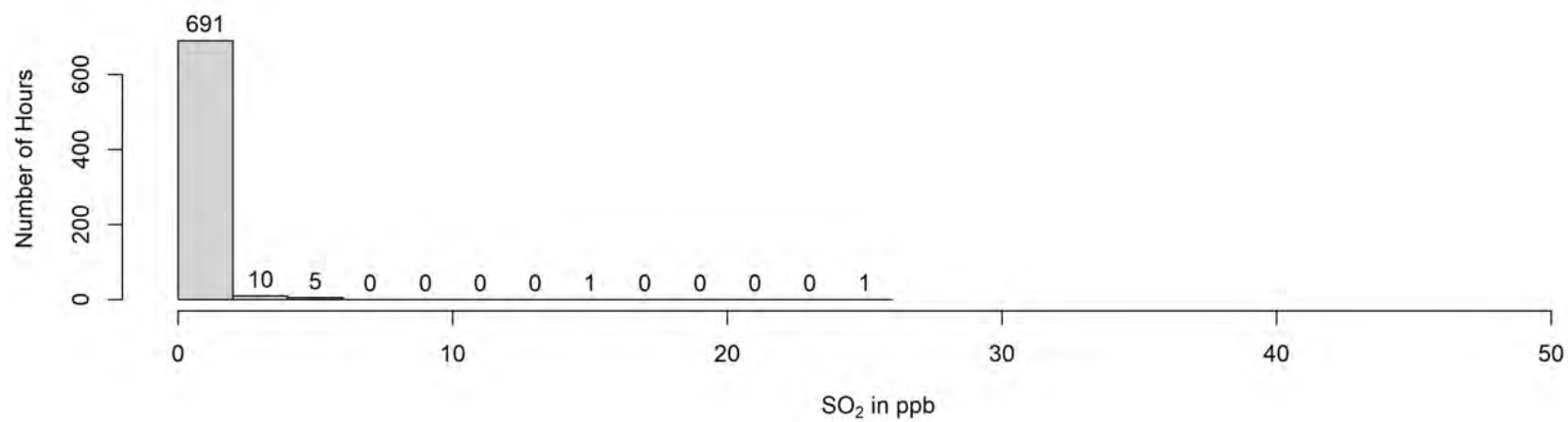
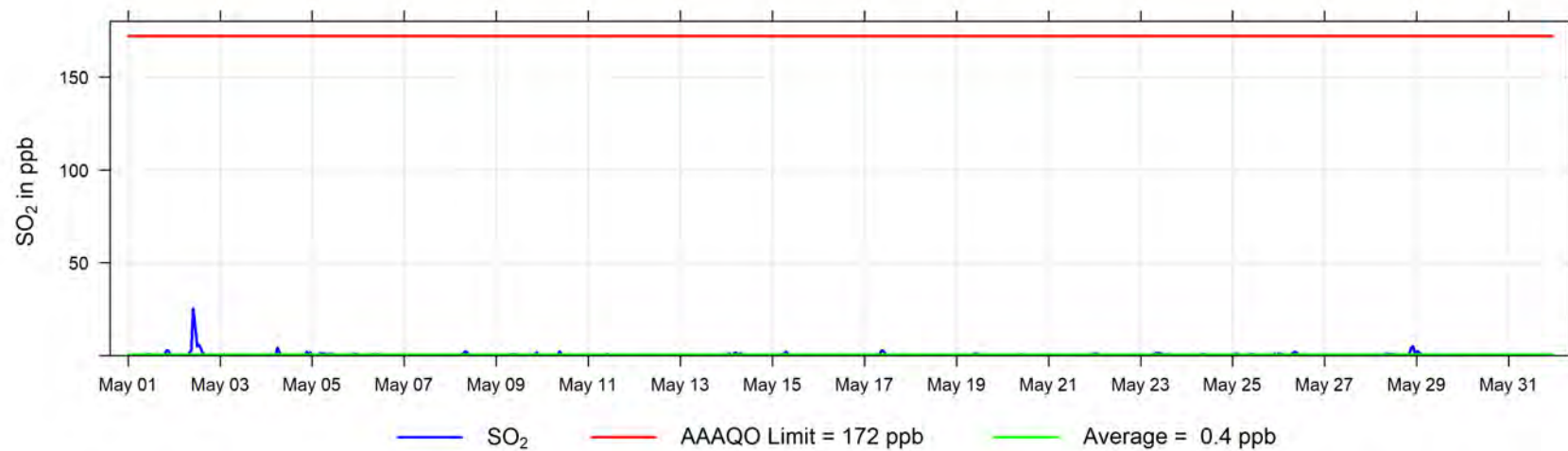


3 Dunes Charts

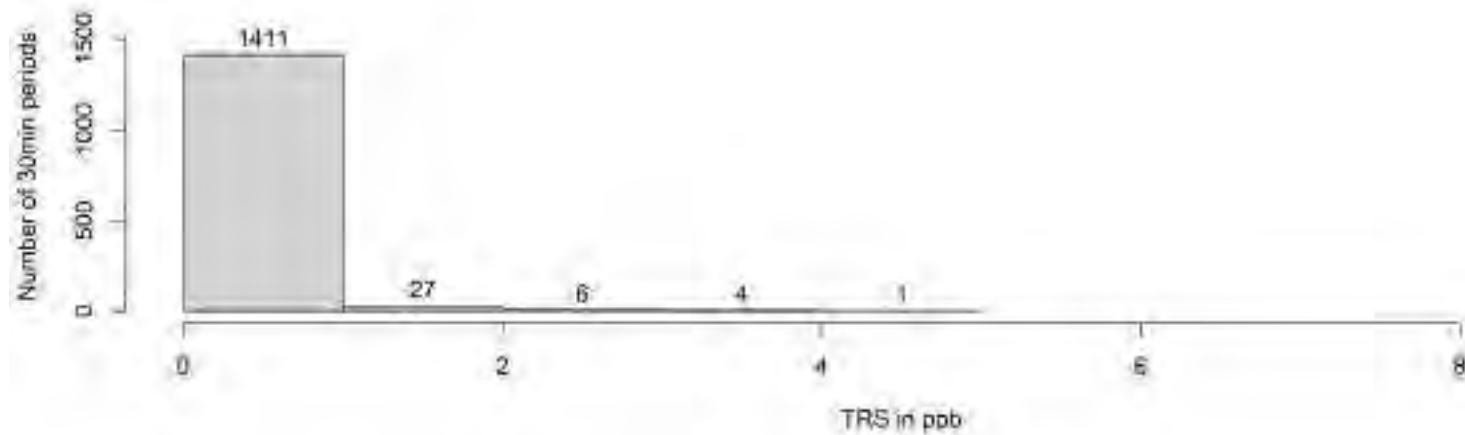
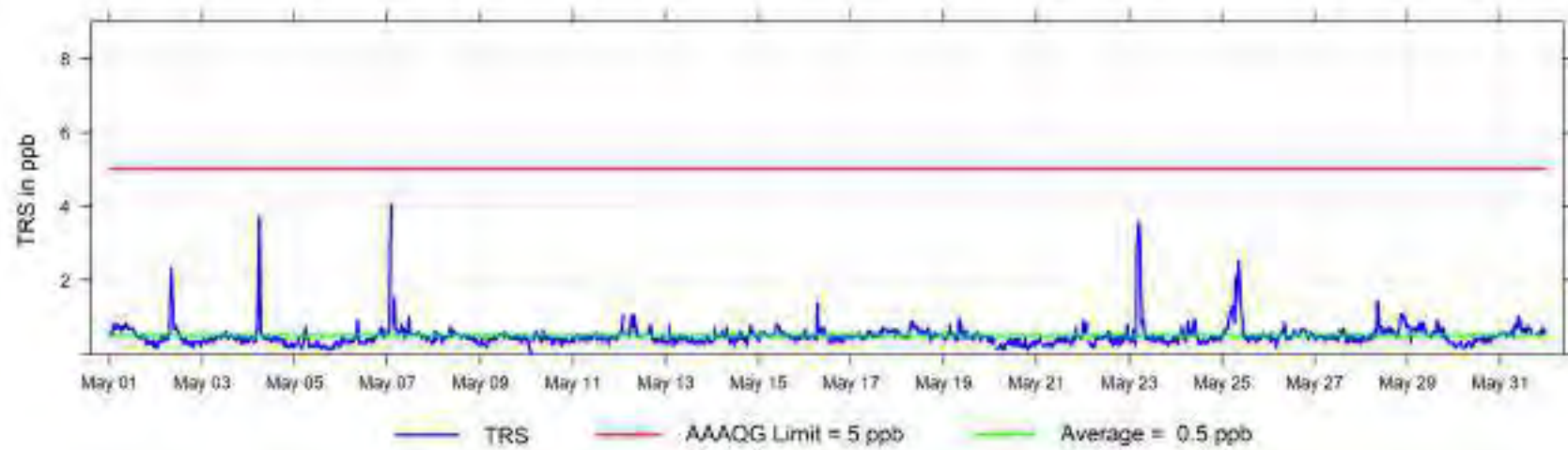
The following pages include the charts and histograms for Dunes Station



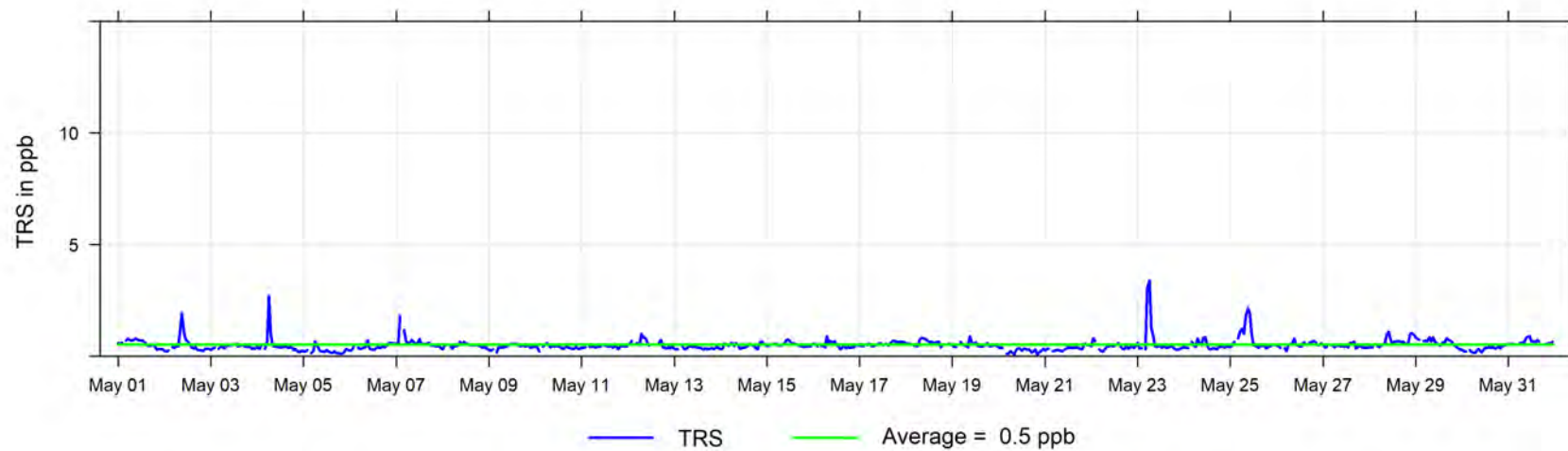
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



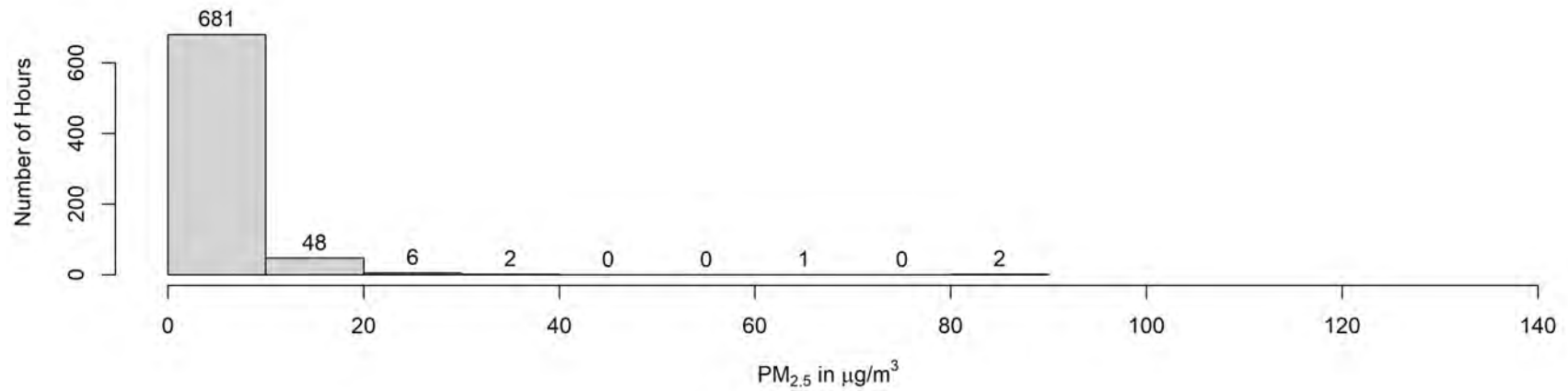
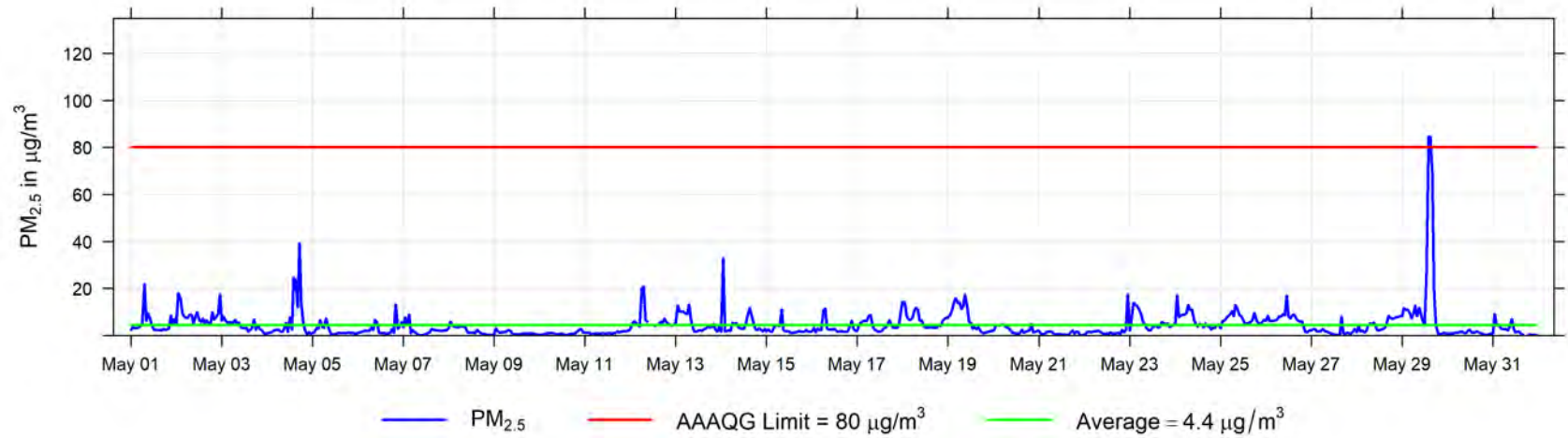
May 2025 30 min Concentration Readings of TRS (in ppb) at Dunes



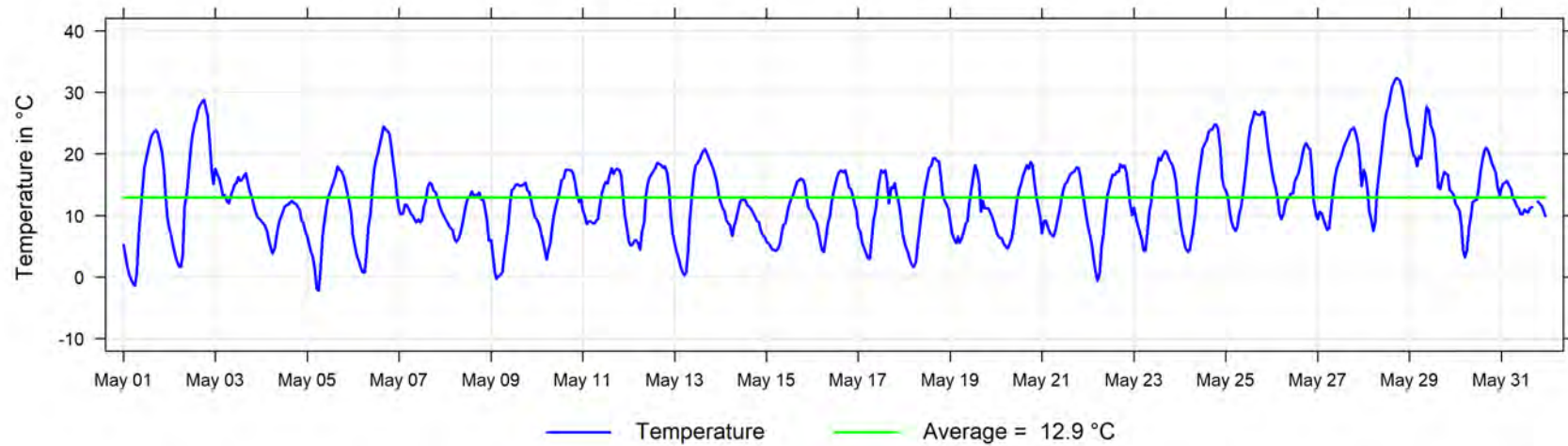
May 2025 Hourly Concentration Readings of TRS (in ppb) at Dunes



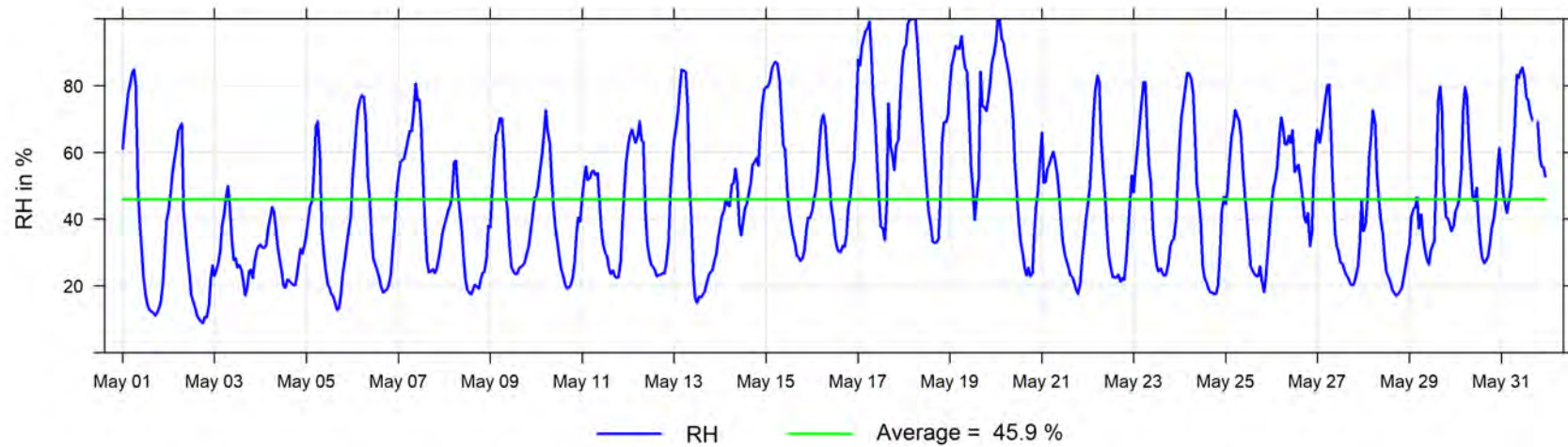
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



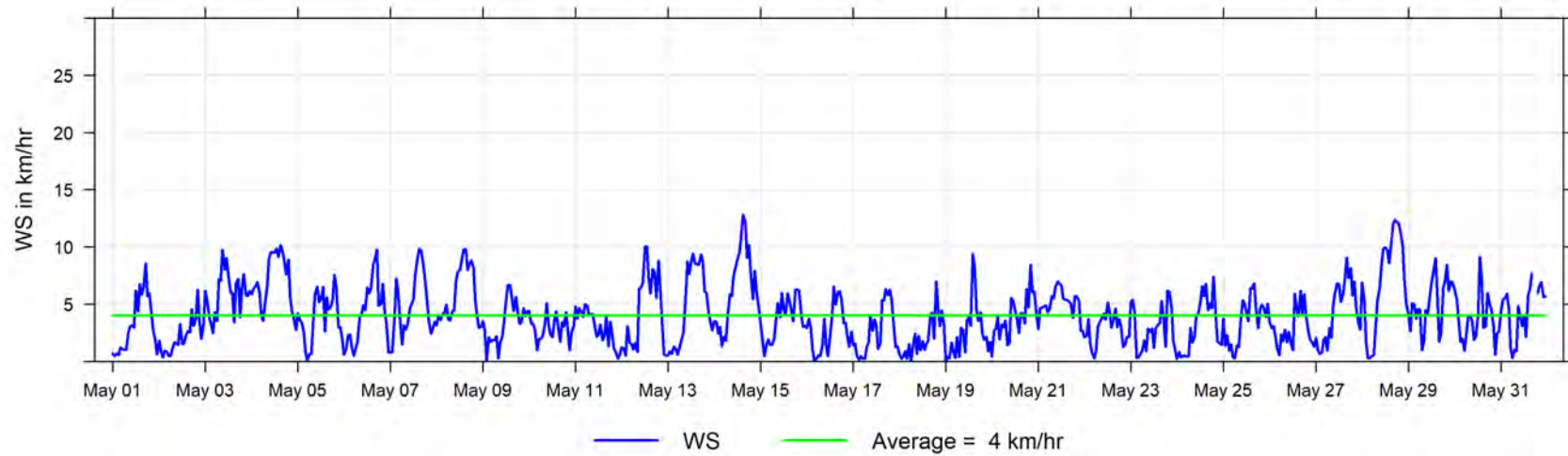
May 2025 Hourly Temperature Readings (in °C) at Dunes



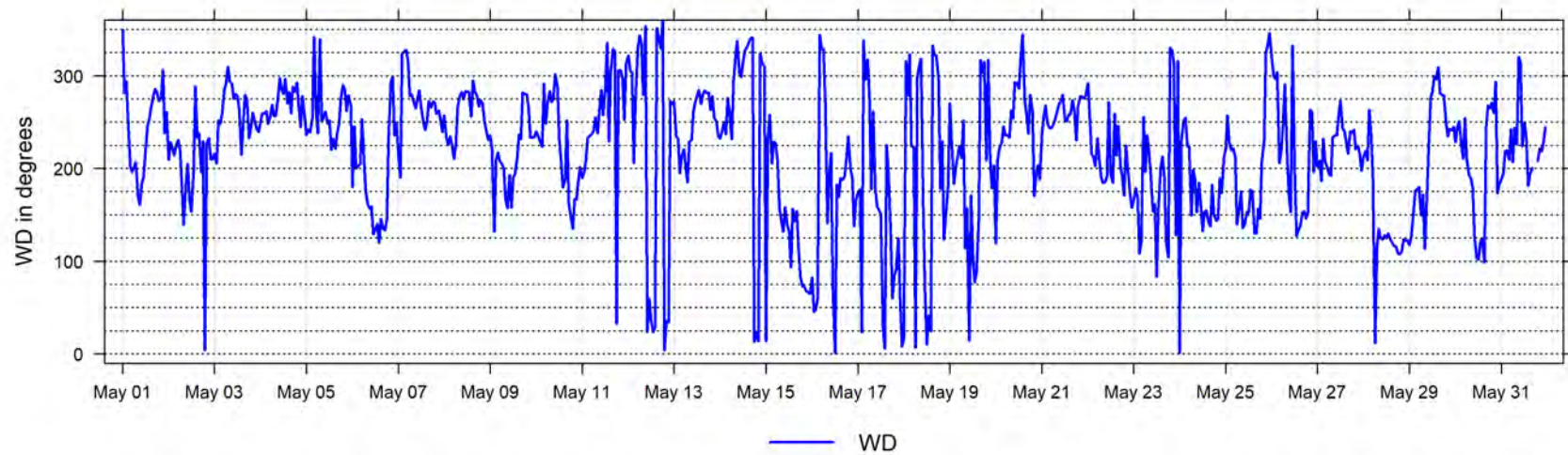
May 2025 Hourly Readings of Relative Humidity (in %) at Dunes



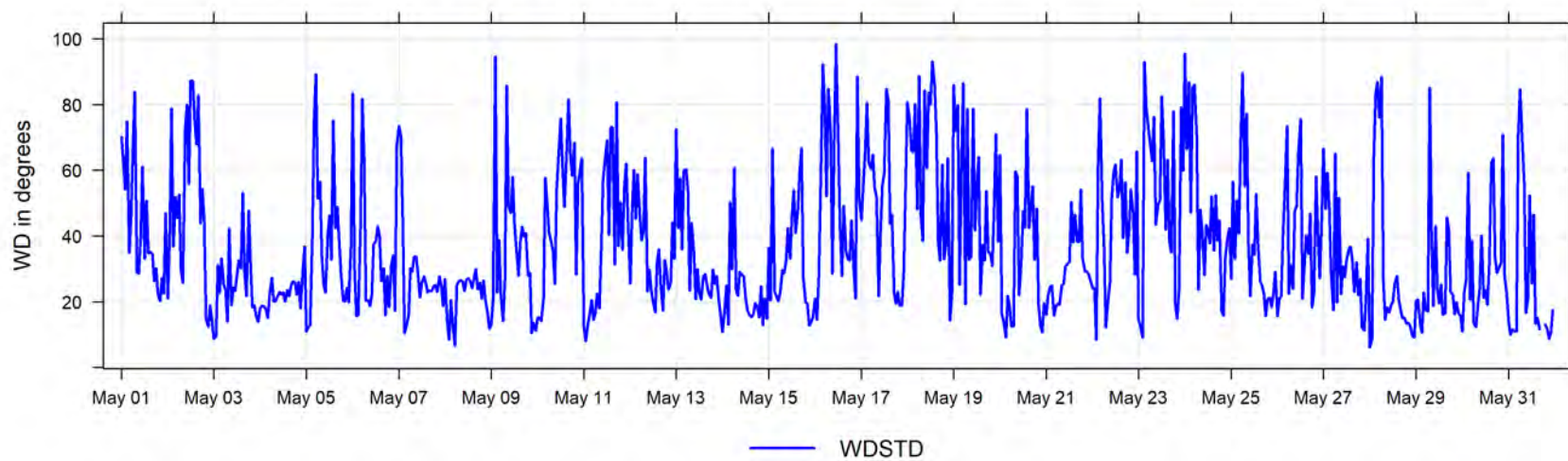
May 2025 Hourly Readings of Wind Speed (in km/hr) at Dunes

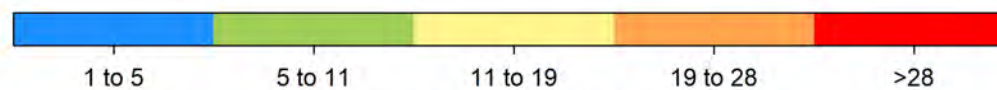
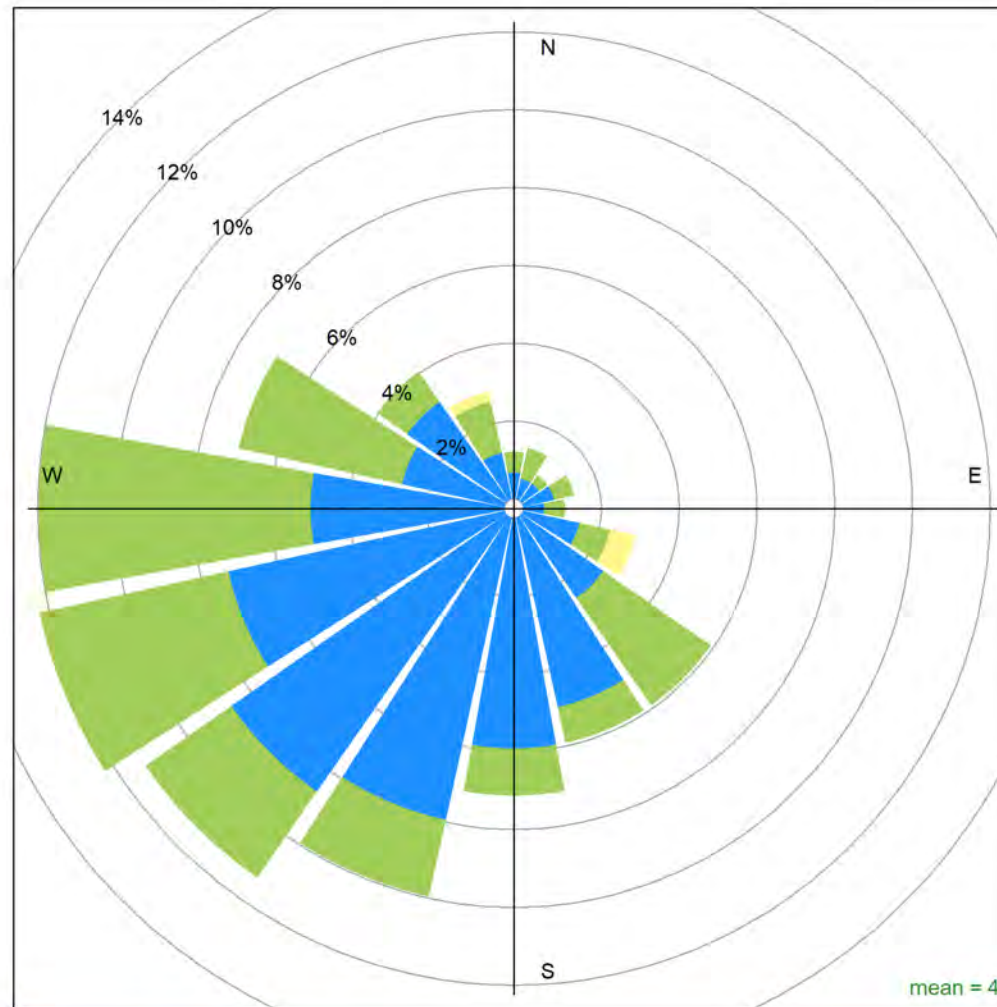


May 2025 Hourly Readings of Wind Direction (in degrees) at Dunes



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





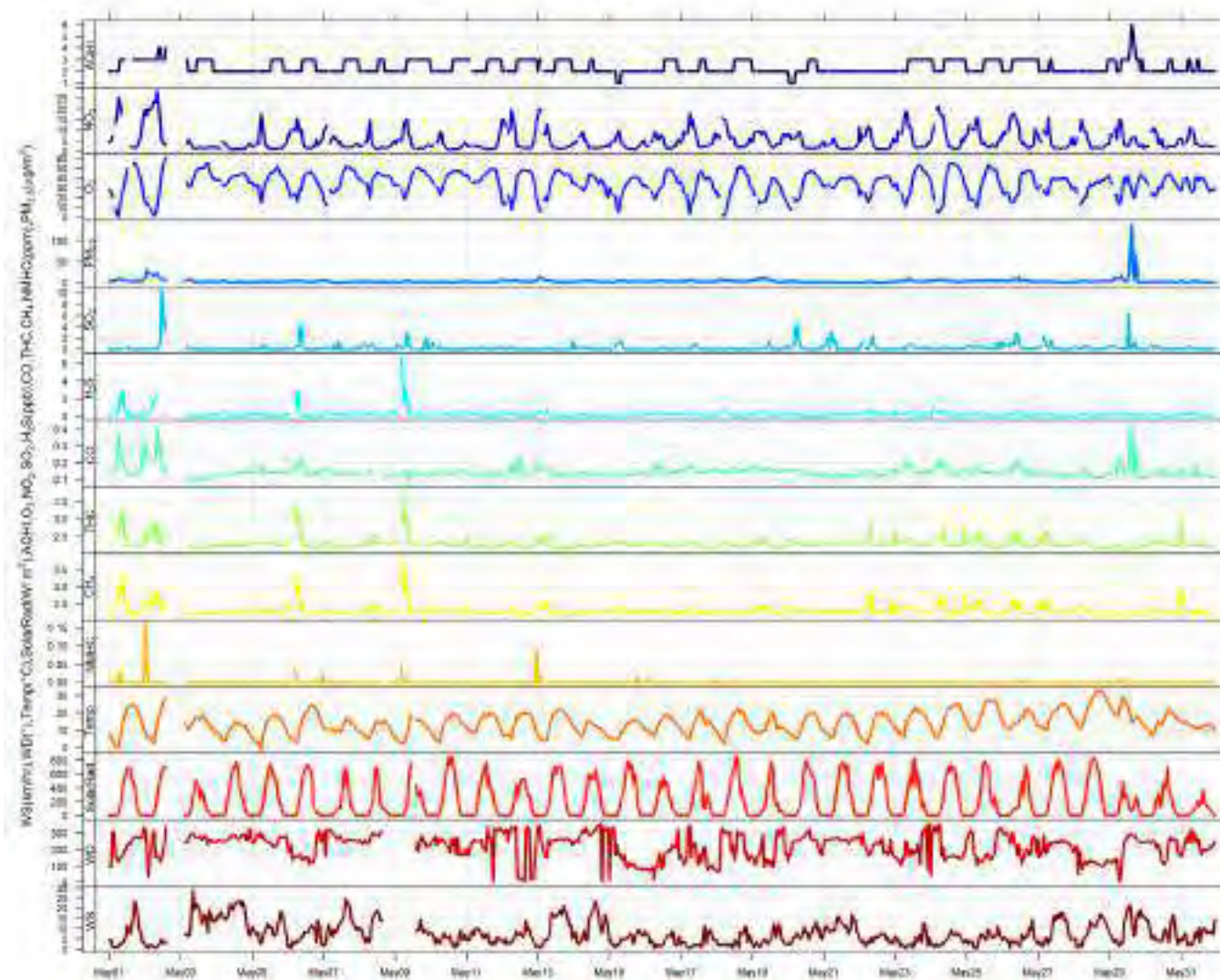
Dunes May 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 12.9 %

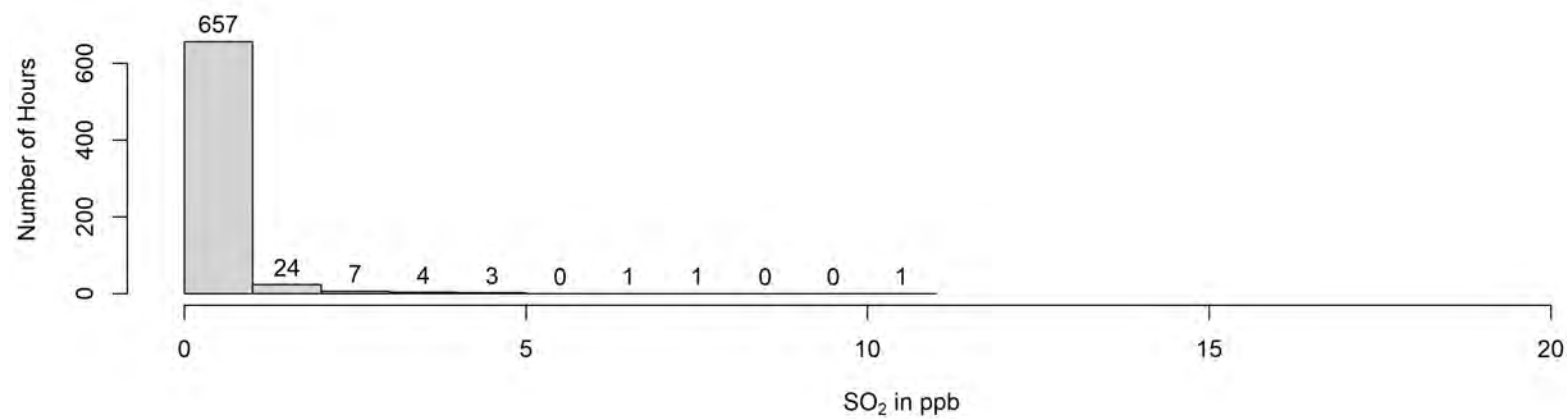
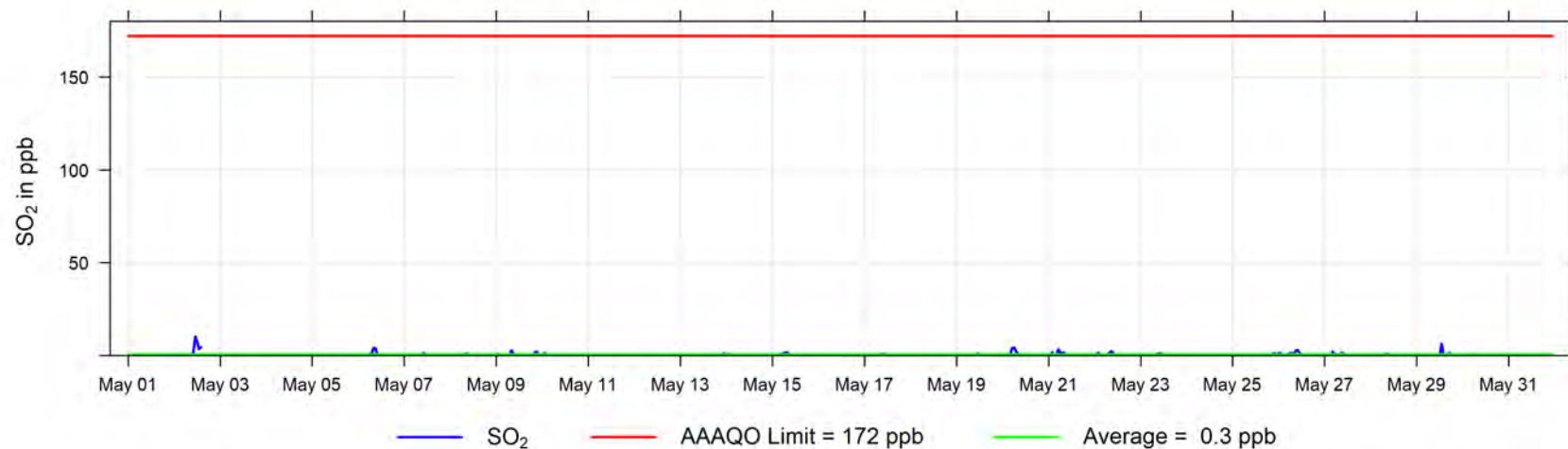
4 Grande Prairie - Henry Pirker Charts

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

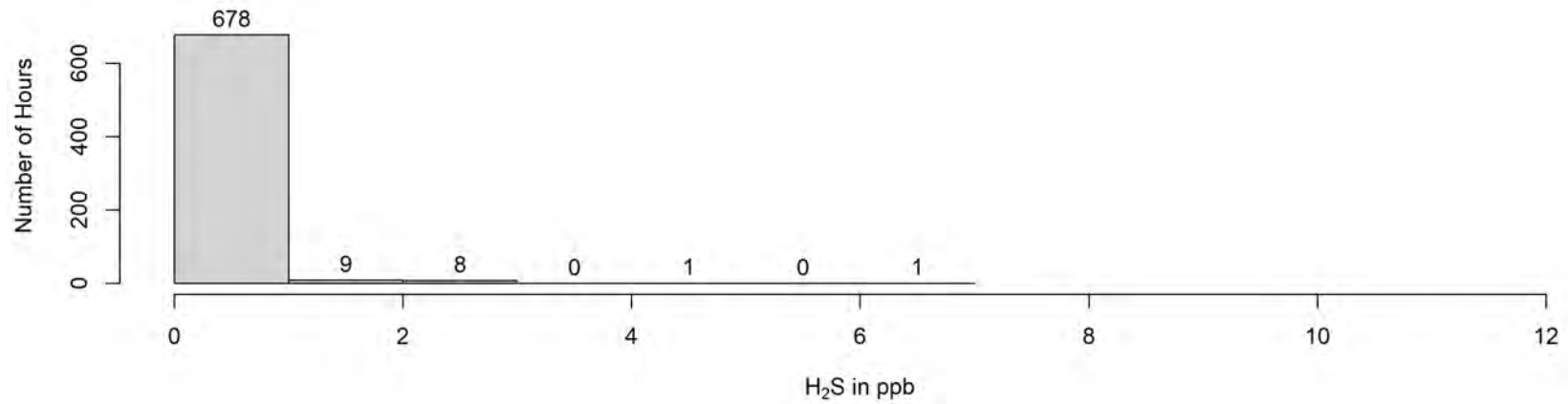
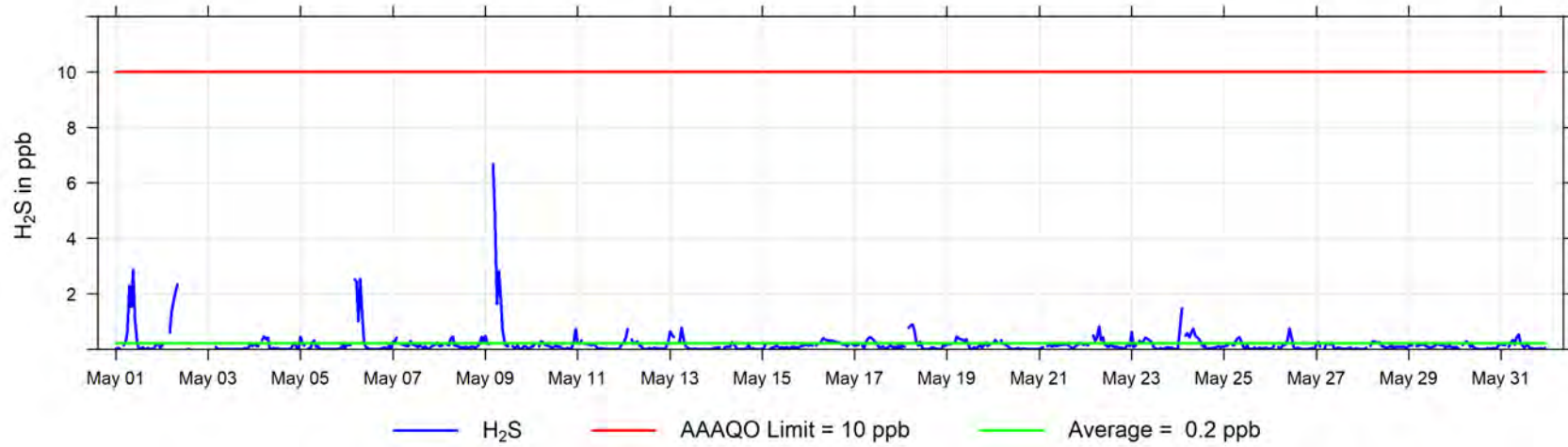
May 2025 Concentration Readings at Henry Pirker Station



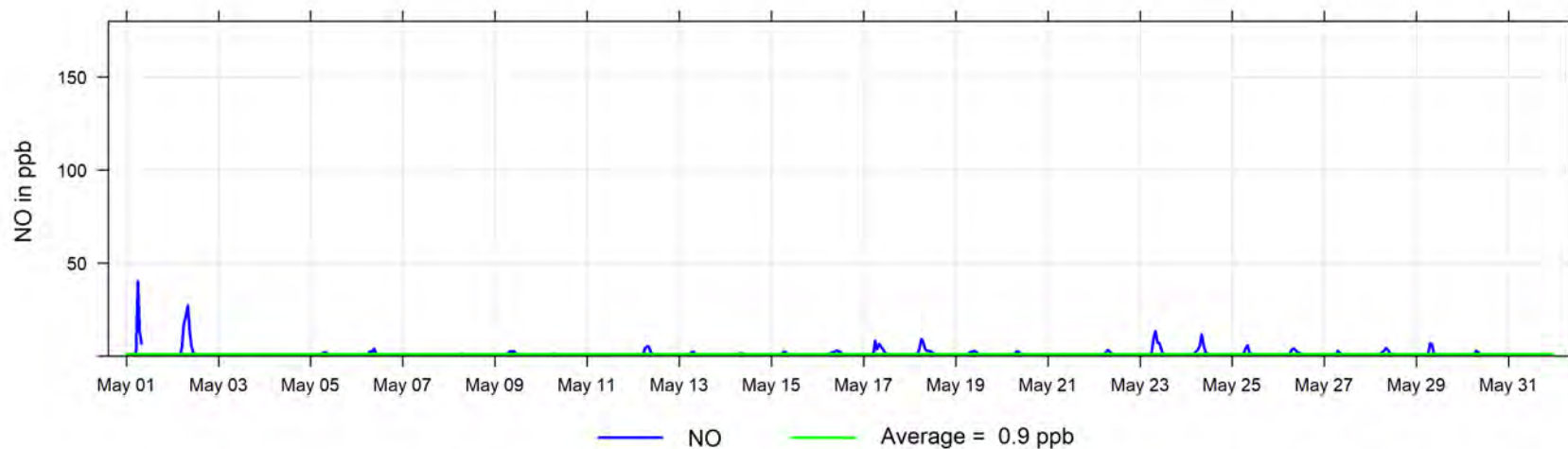
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



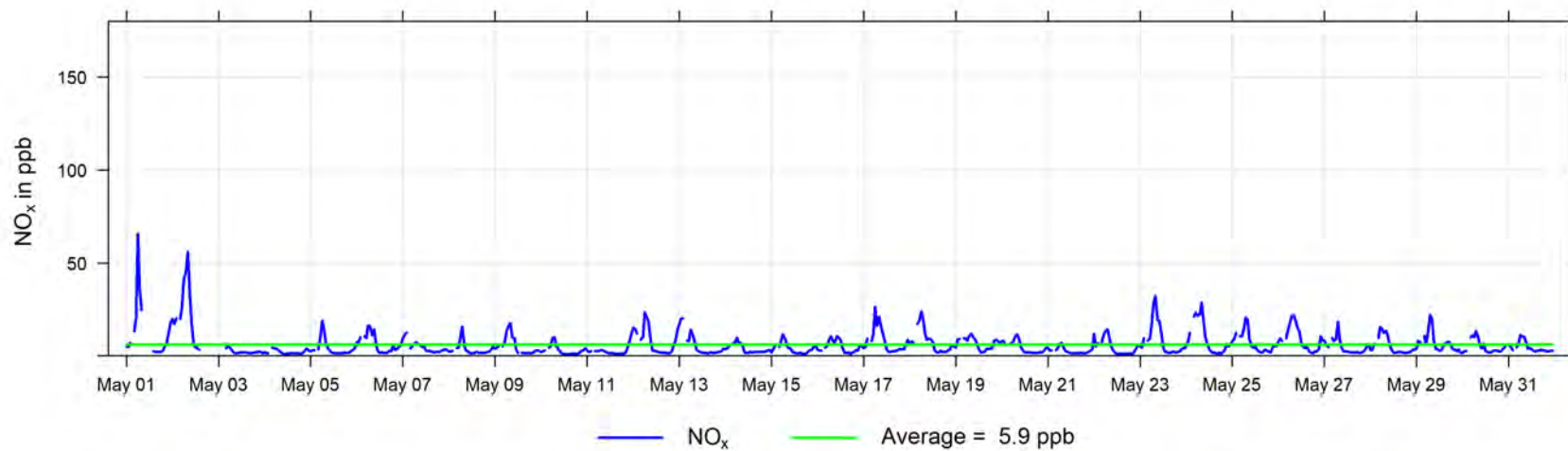
May 2025 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



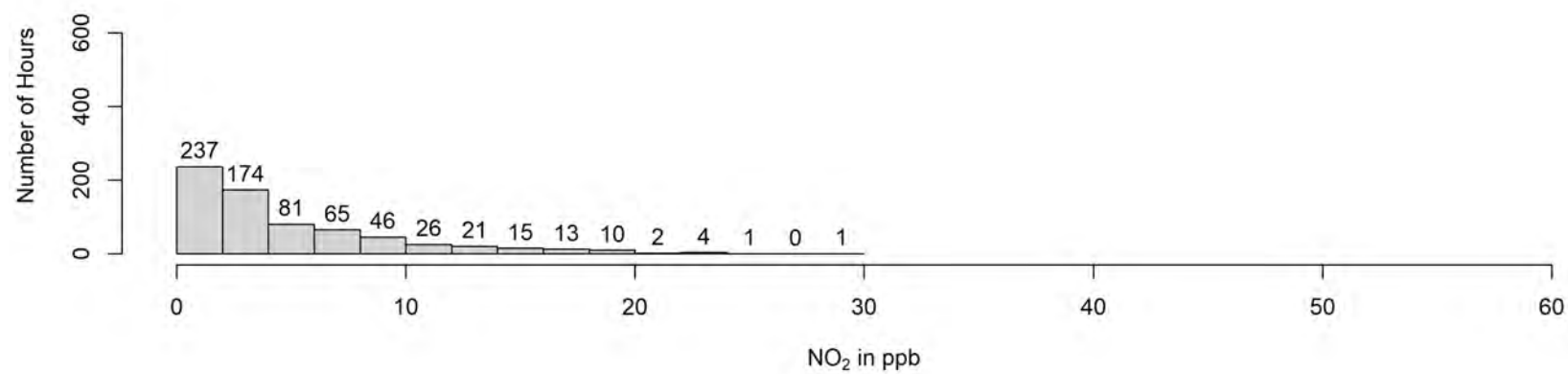
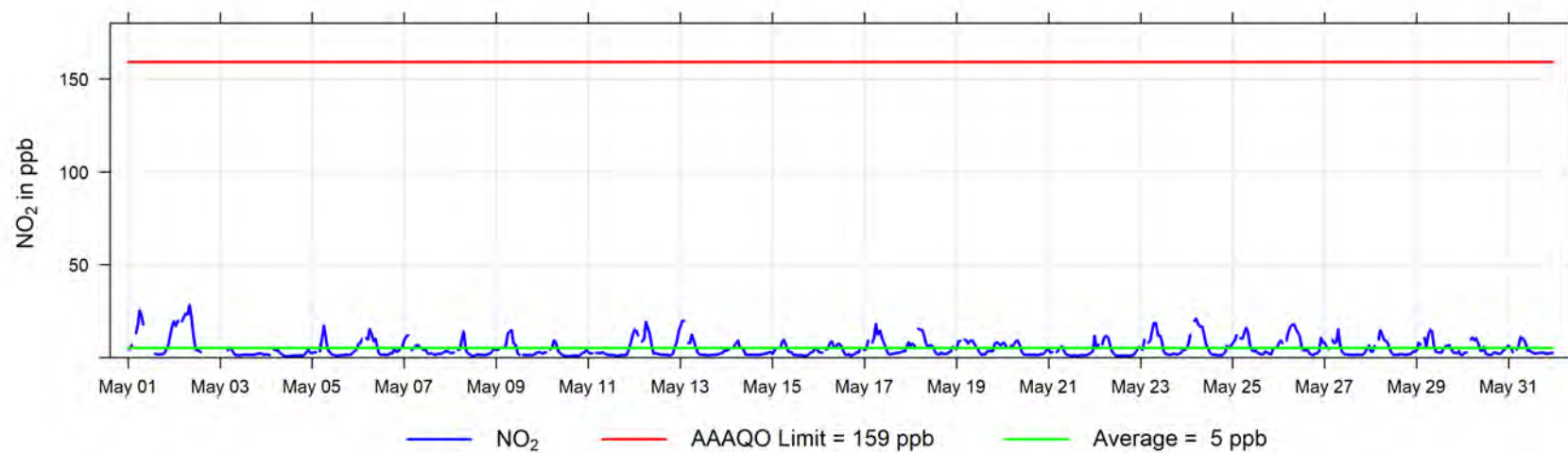
May 2025 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



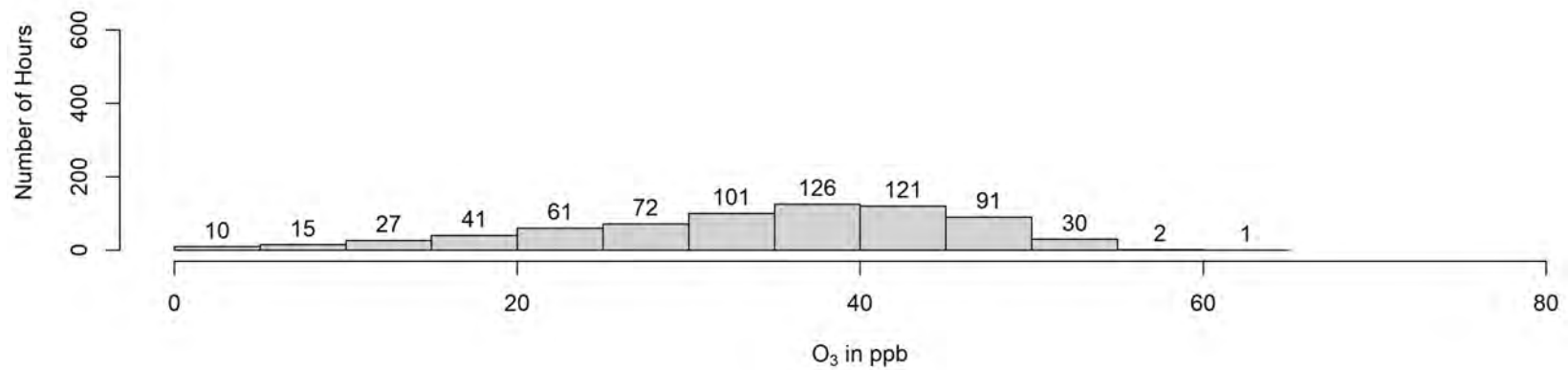
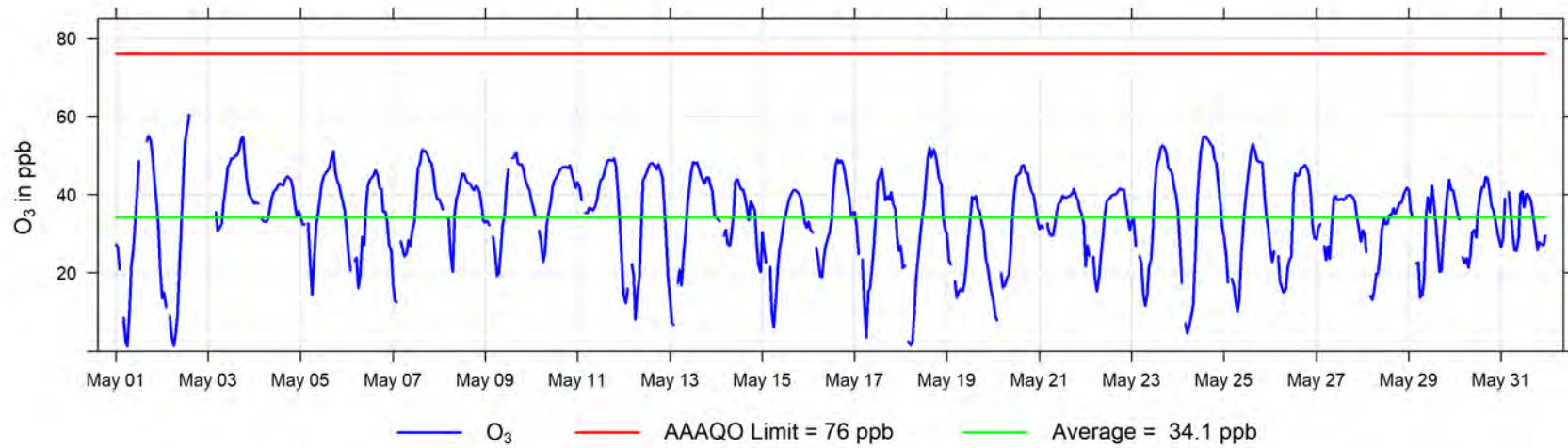
May 2025 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



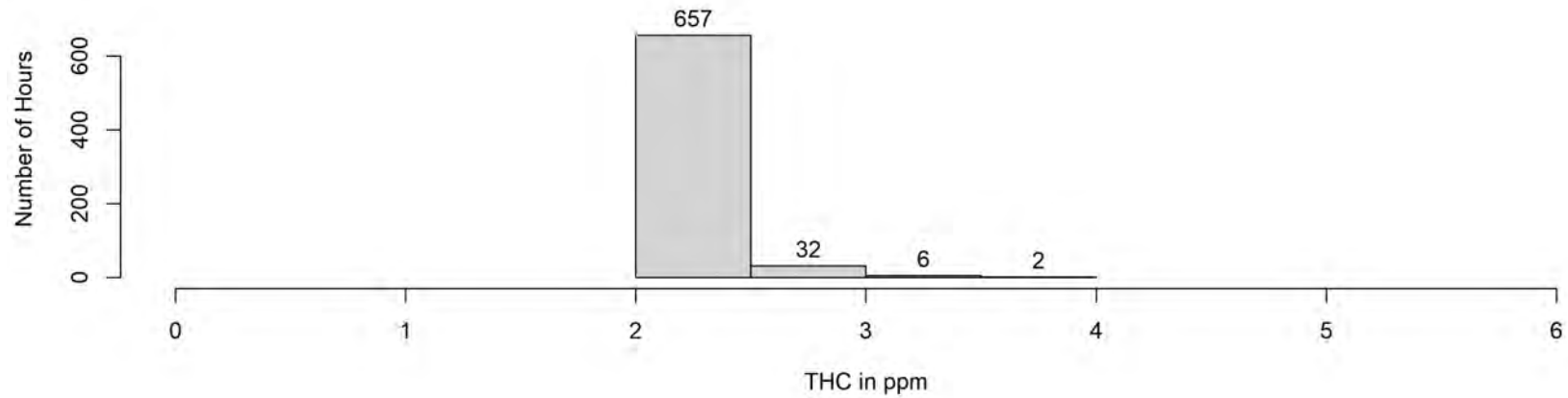
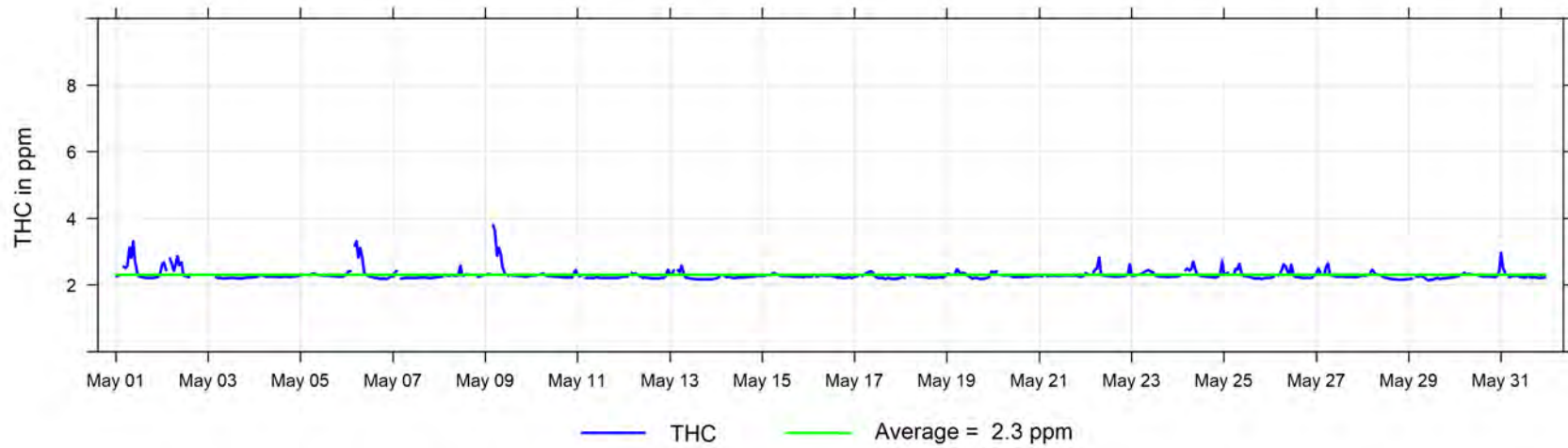
May 2025 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



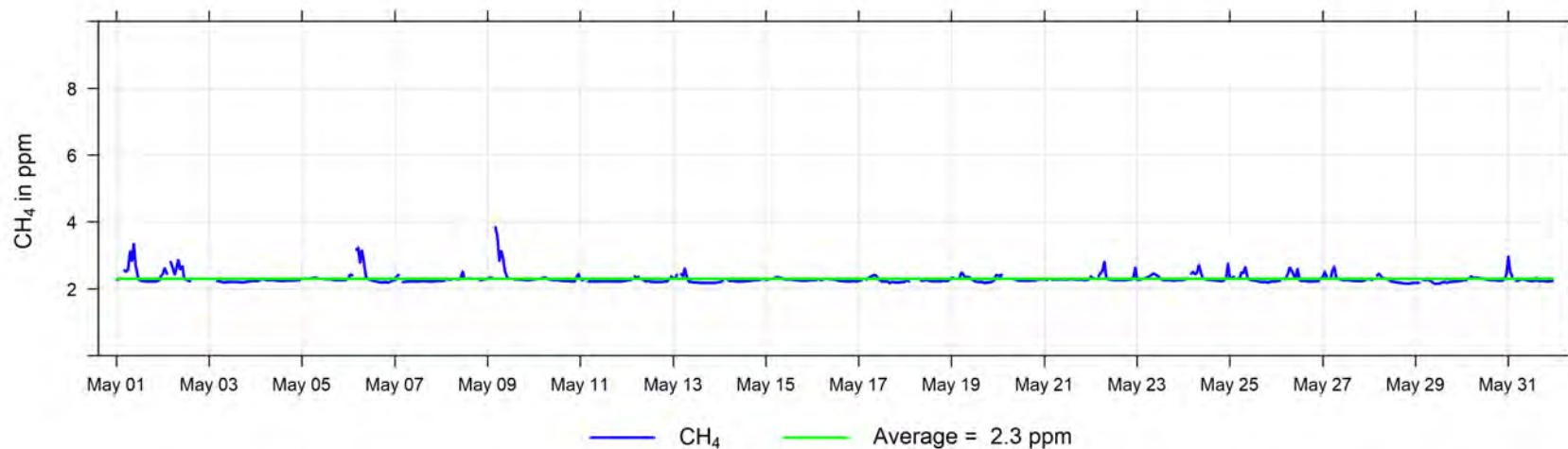
May 2025 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



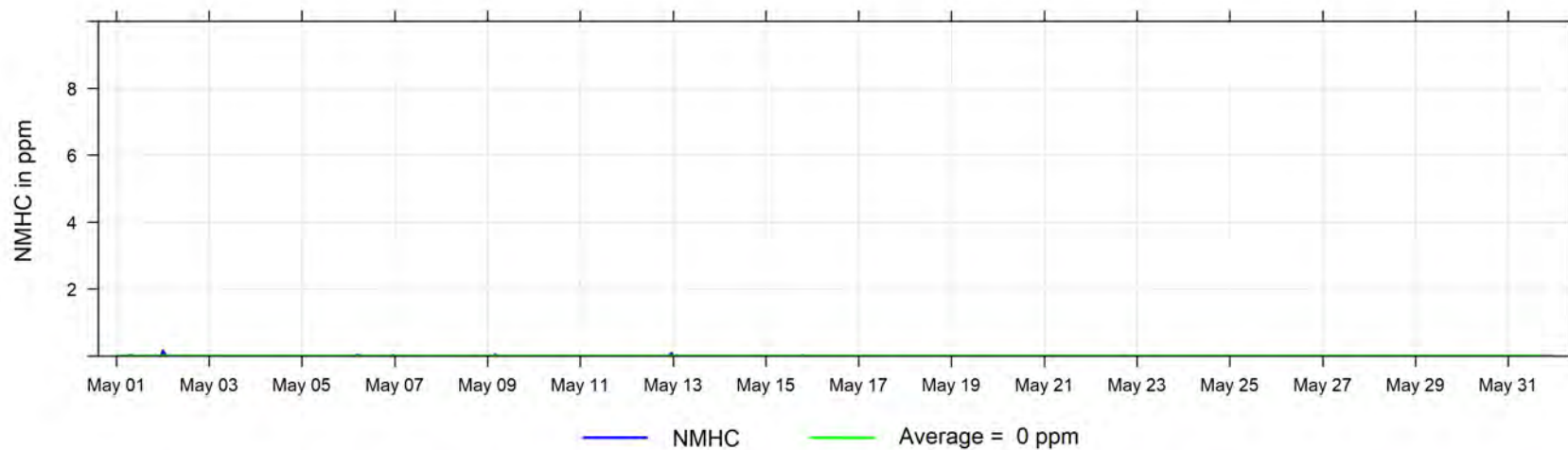
May 2025 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



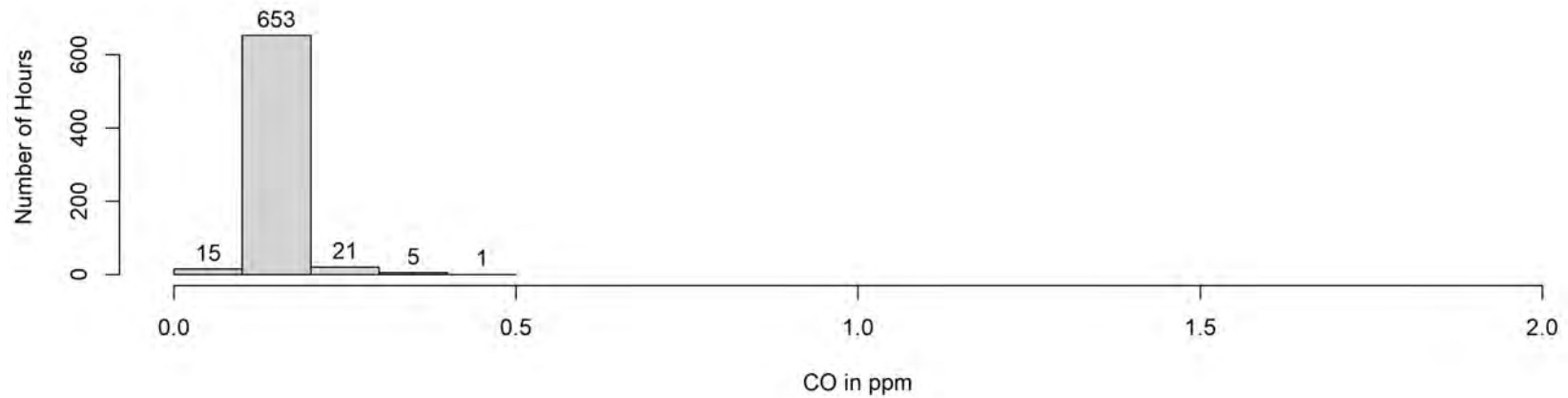
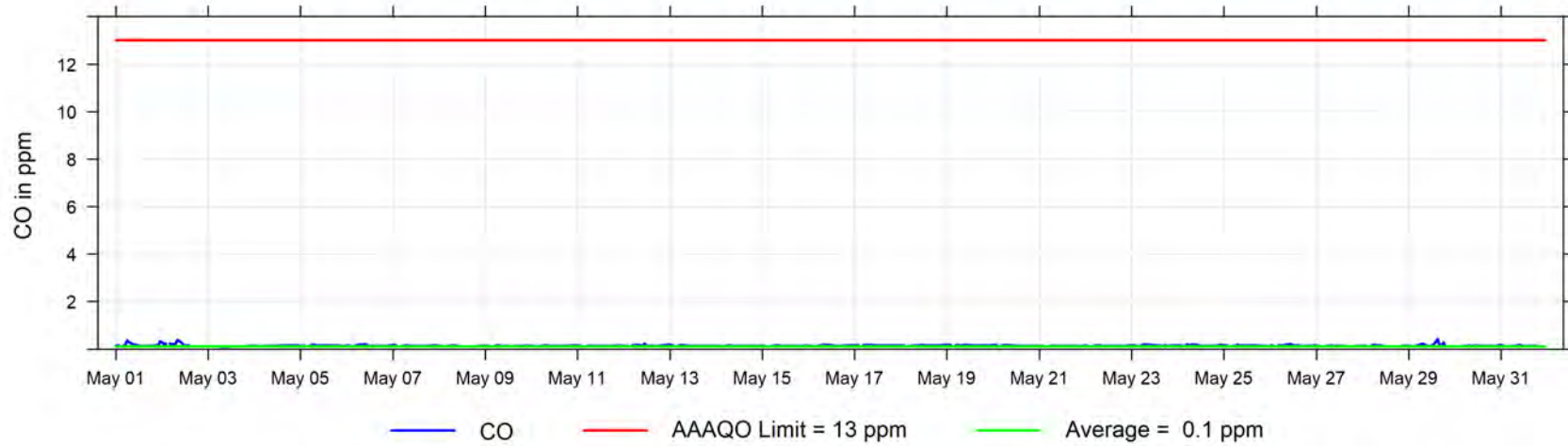
May 2025 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



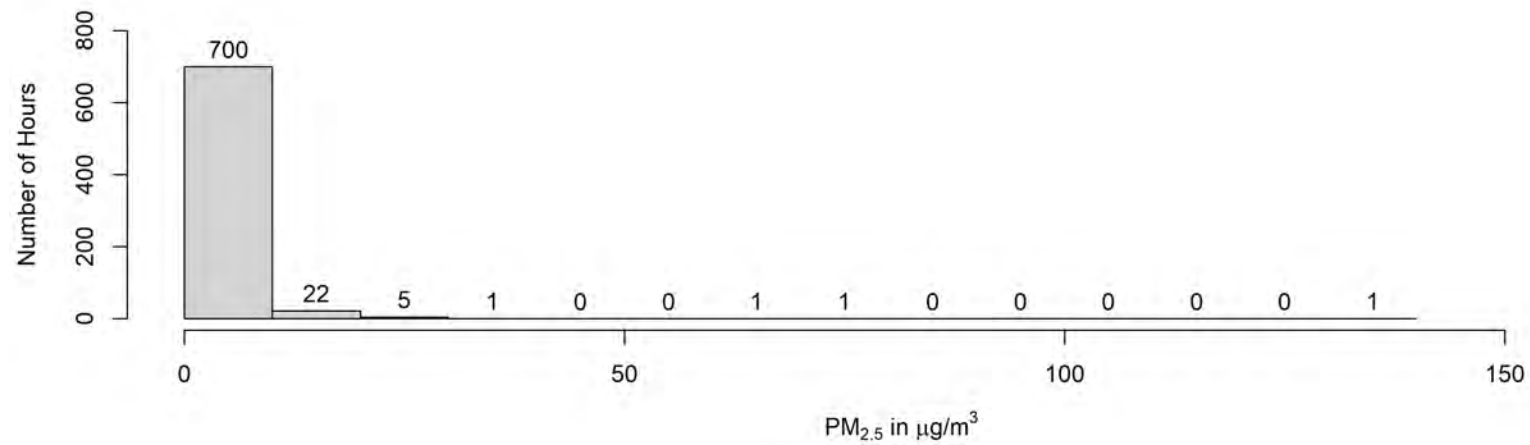
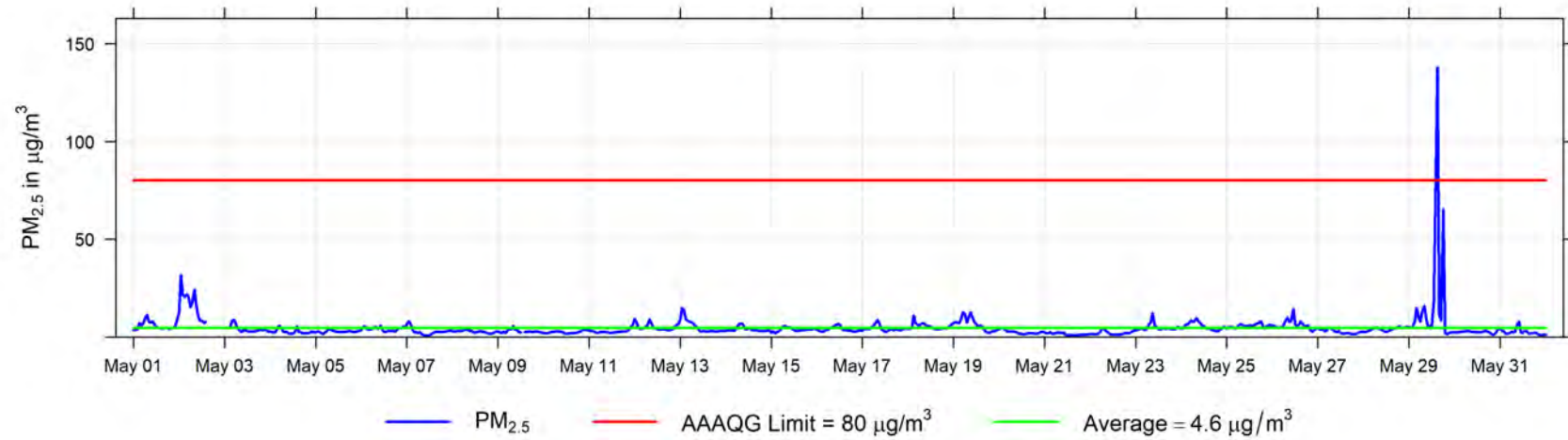
May 2025 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



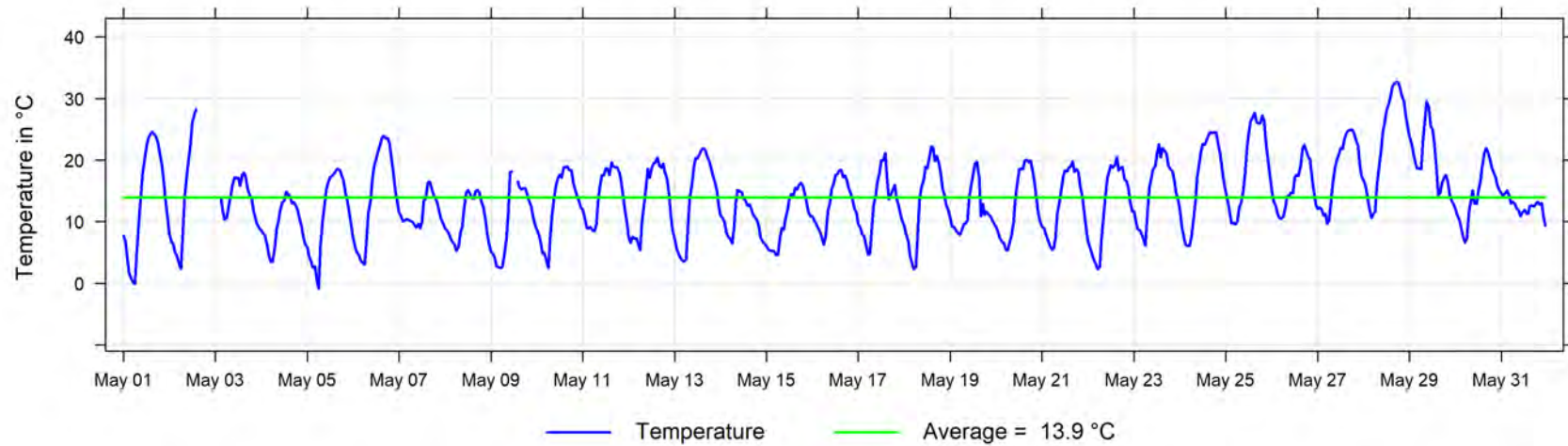
May 2025 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



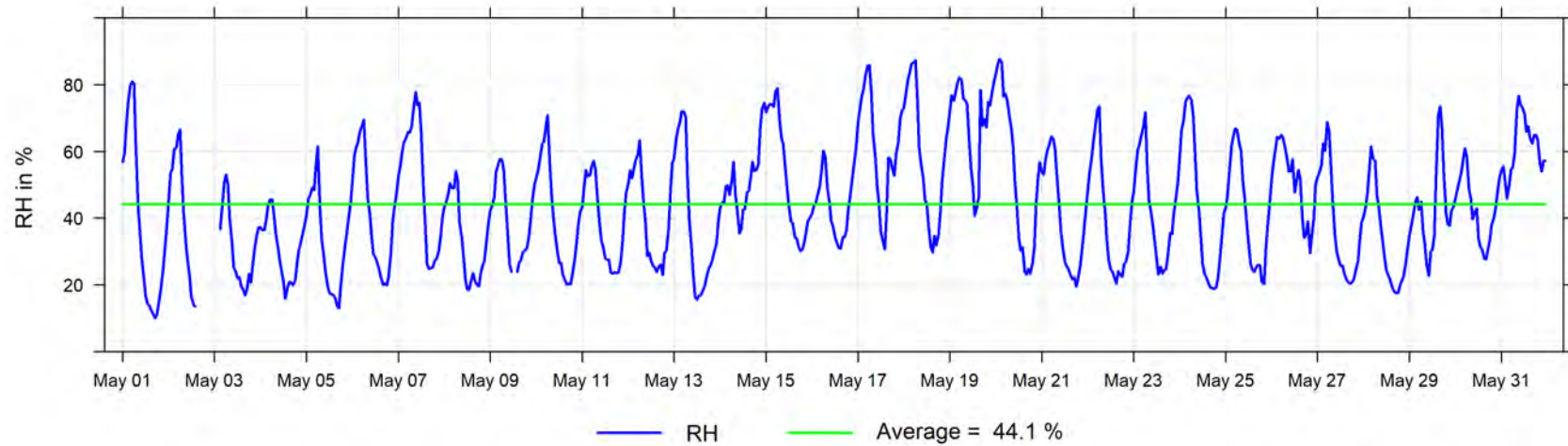
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



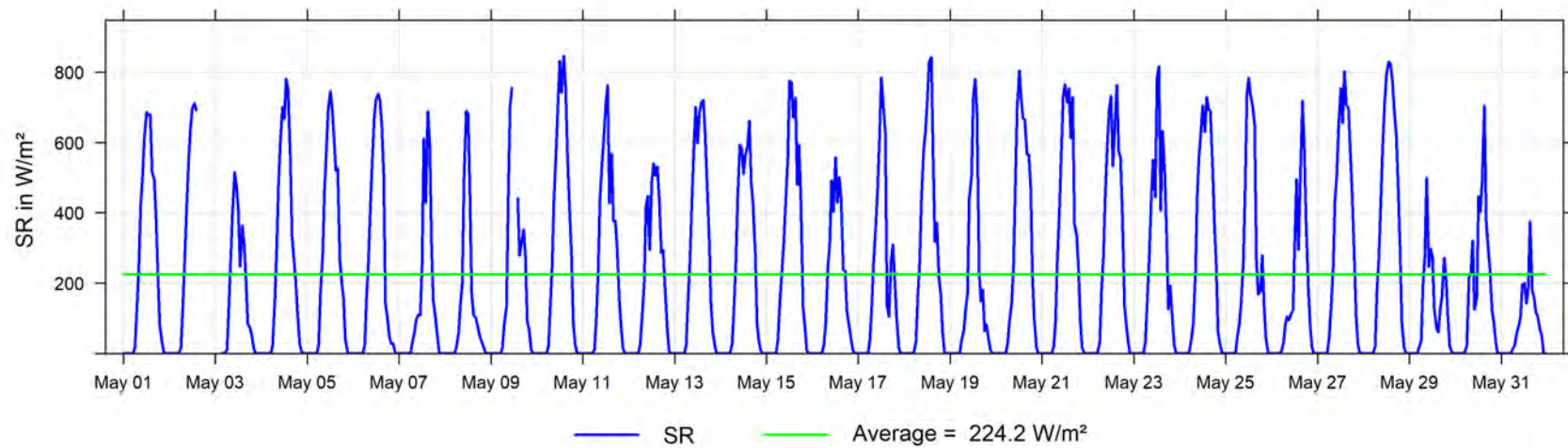
May 2025 Hourly Temperature Readings (in °C) at Henry Pirker



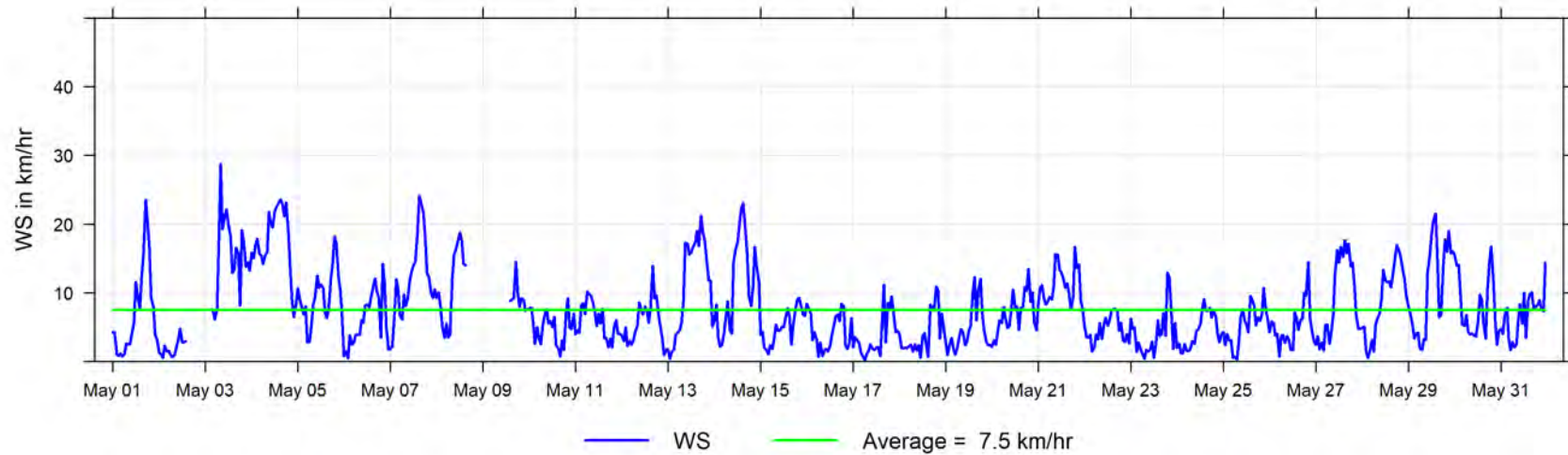
May 2025 Hourly Readings of Relative Humidity (in %) at Henry Pirker



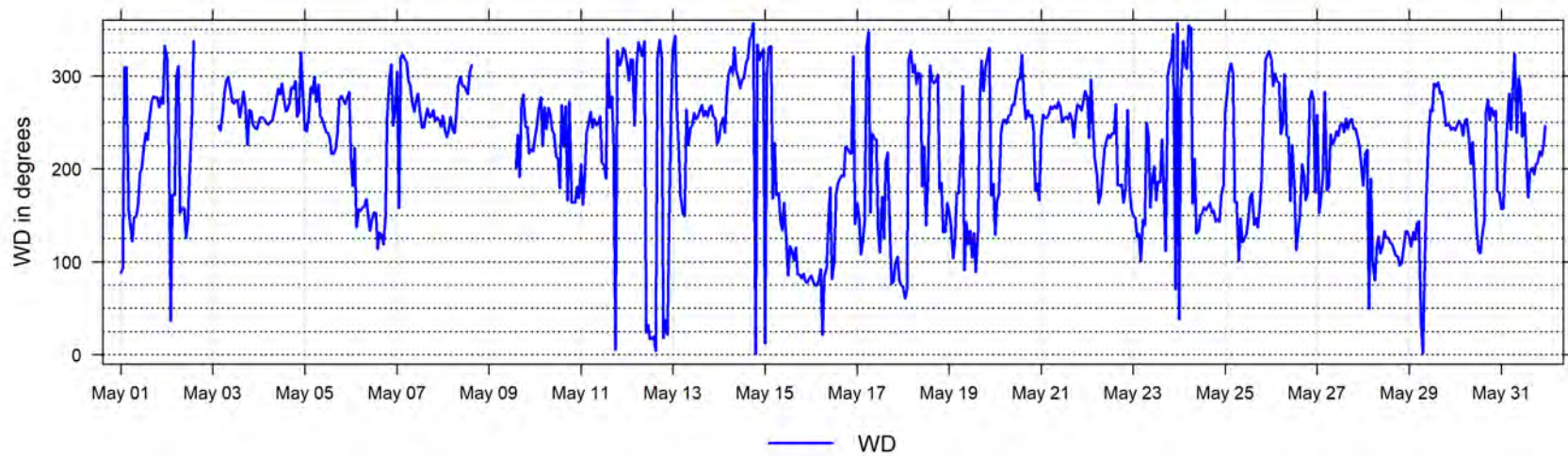
May 2025 Hourly Readings of Solar Radiation (in W/m²) at Henry Pirker



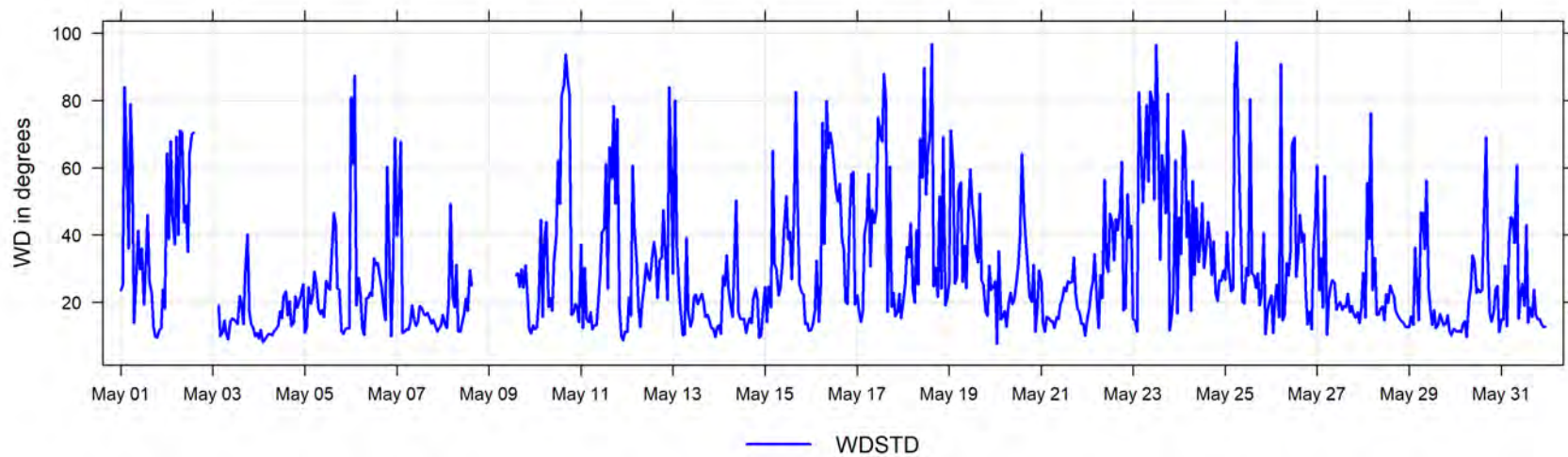
May 2025 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

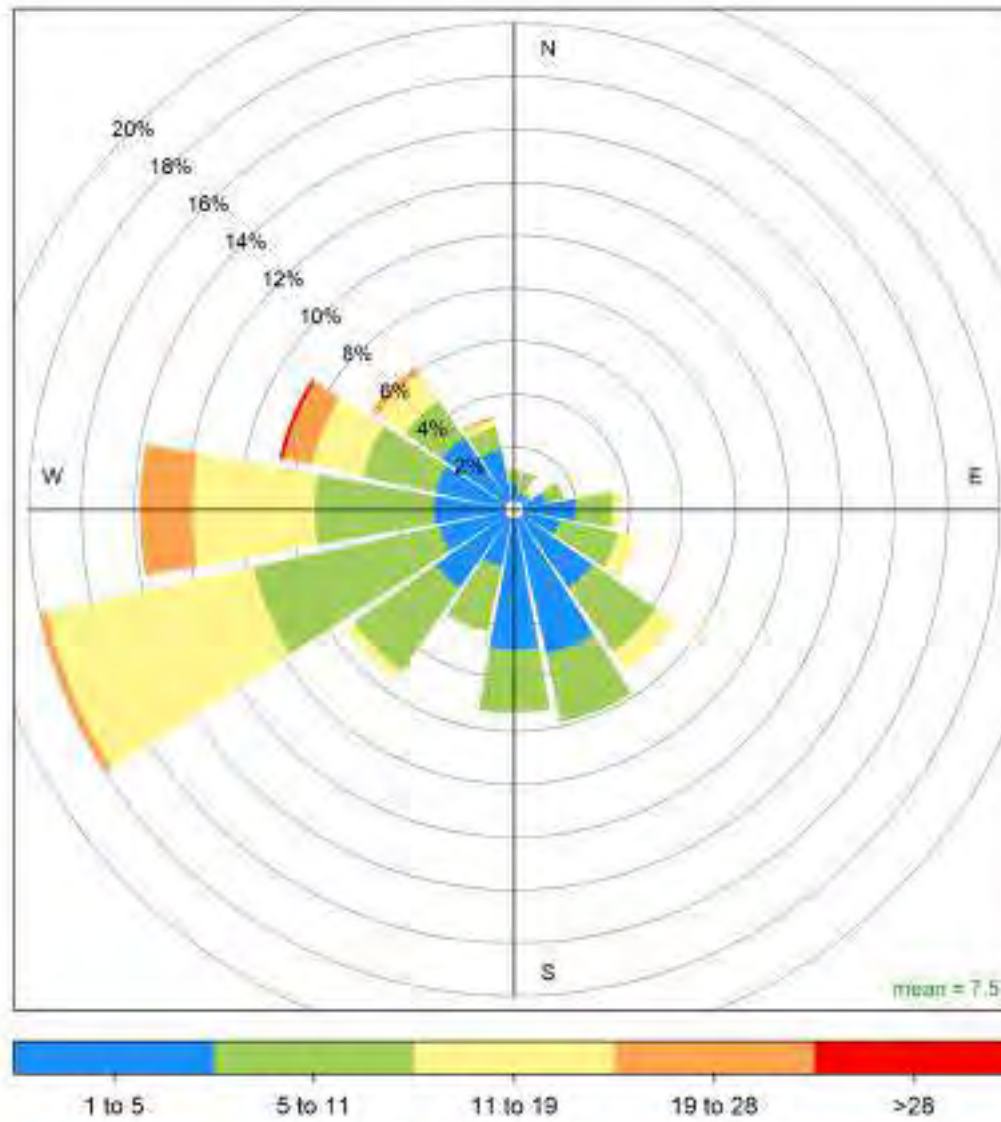


May 2025 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



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



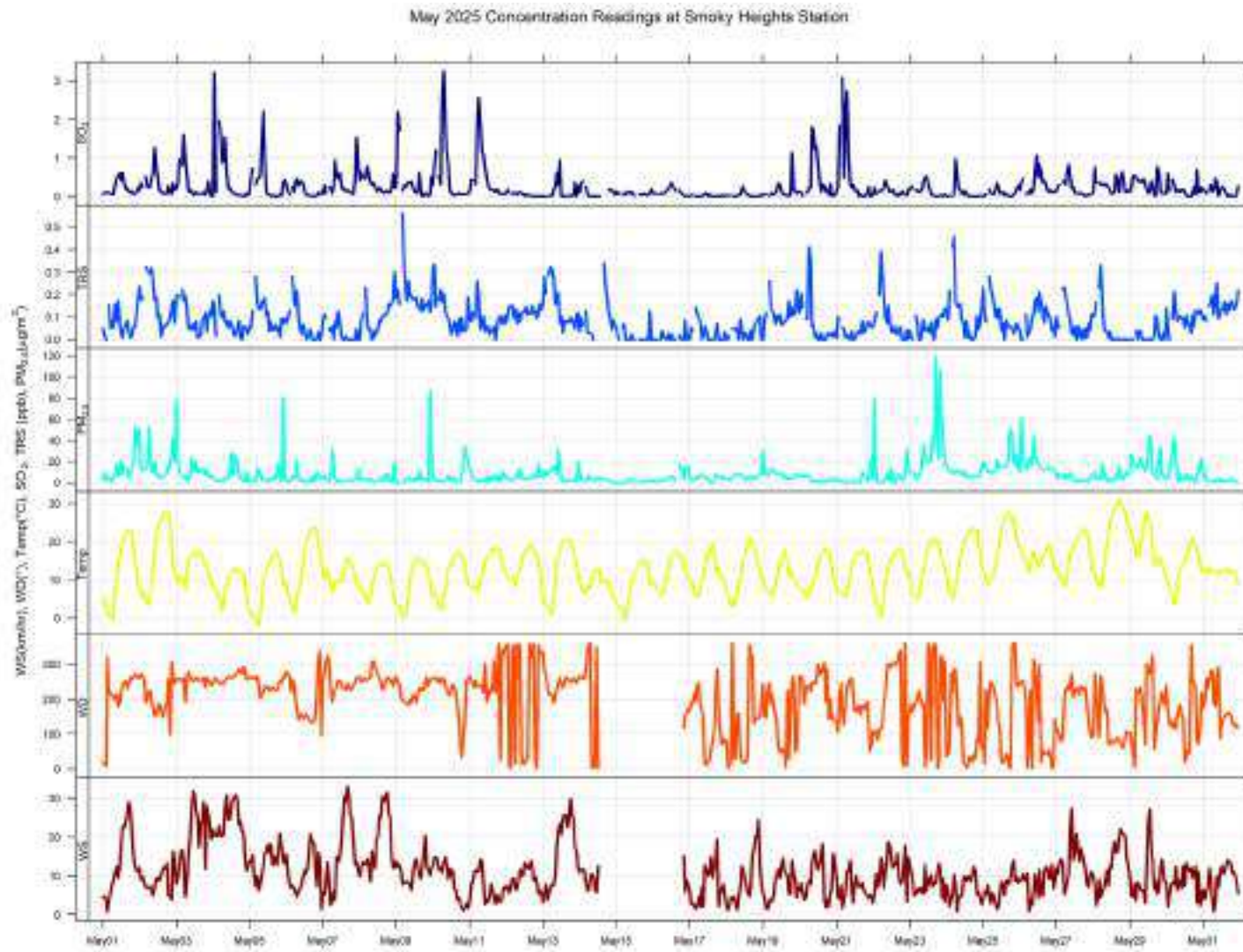


Henry Pirker May 2025 Wind Rose, wind speed in km/hr

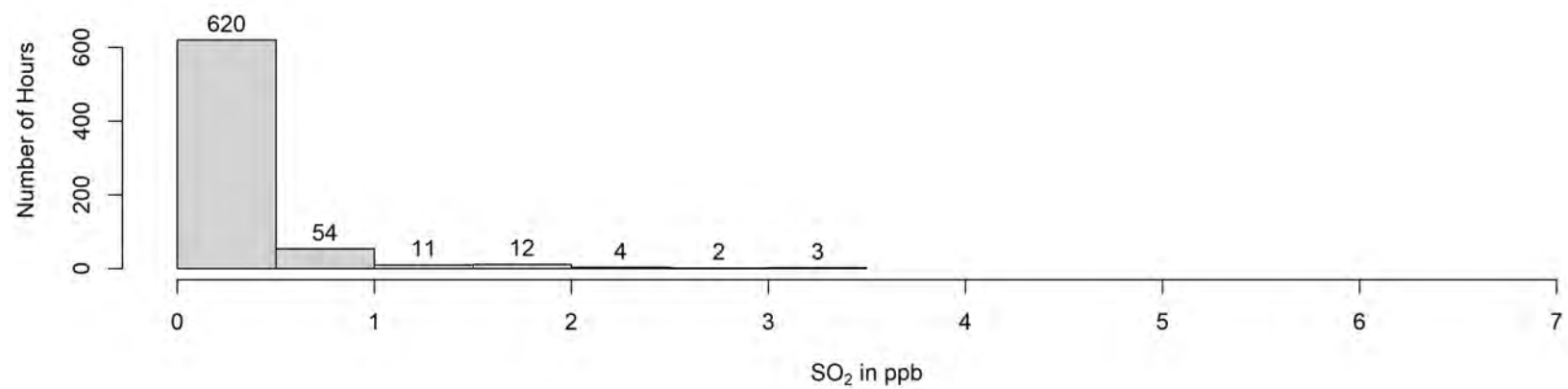
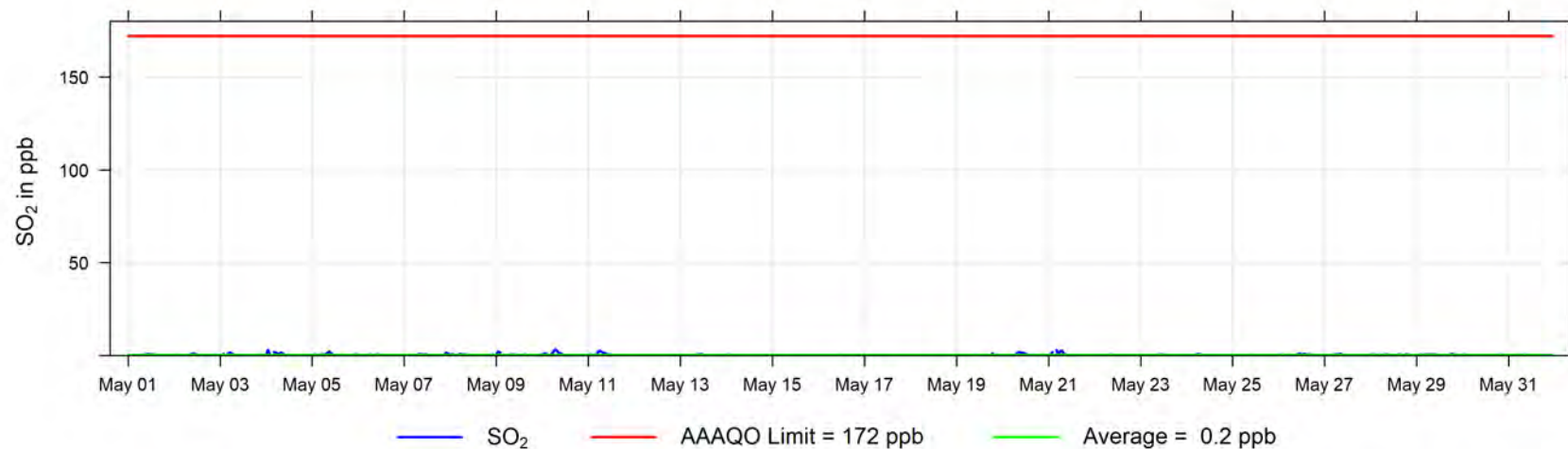
Calms (<1km/hr) = 3.8 %

5 Smoky Heights Charts

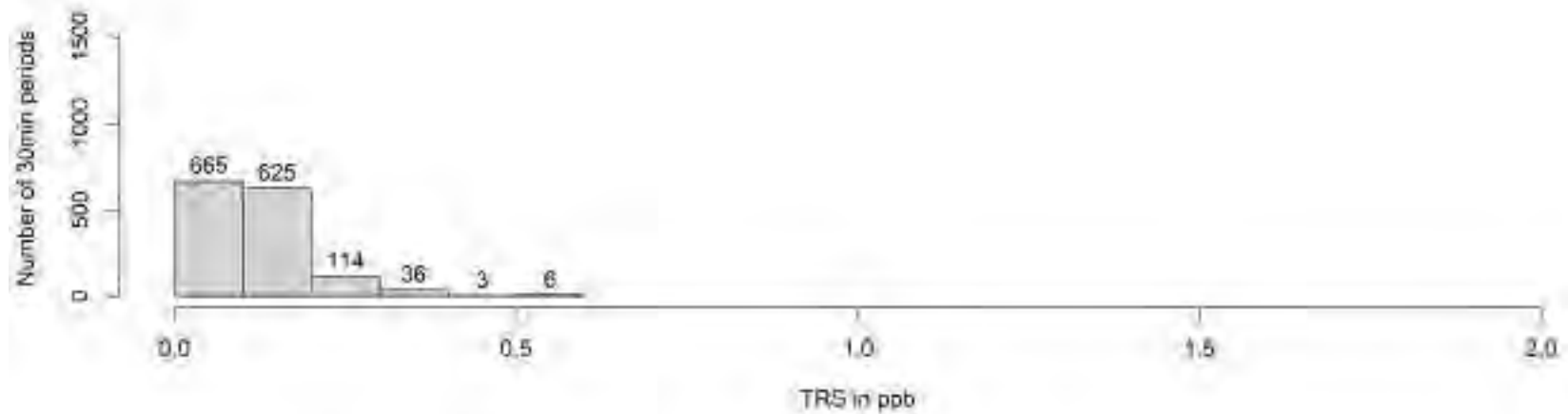
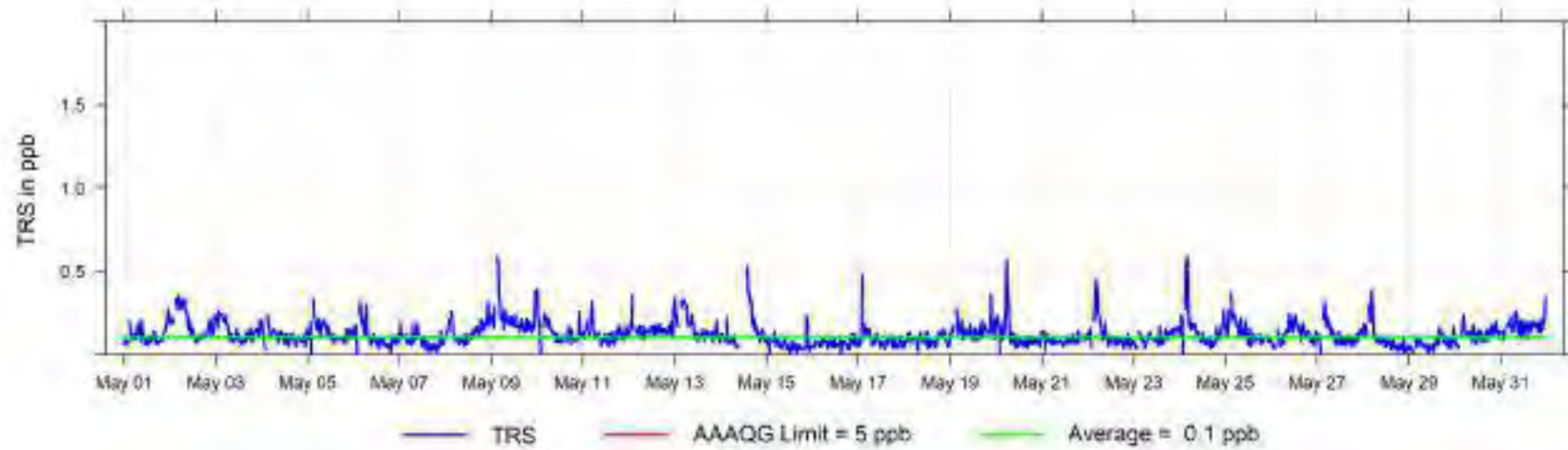
The following pages include the charts and histograms for Smoky Heights Station



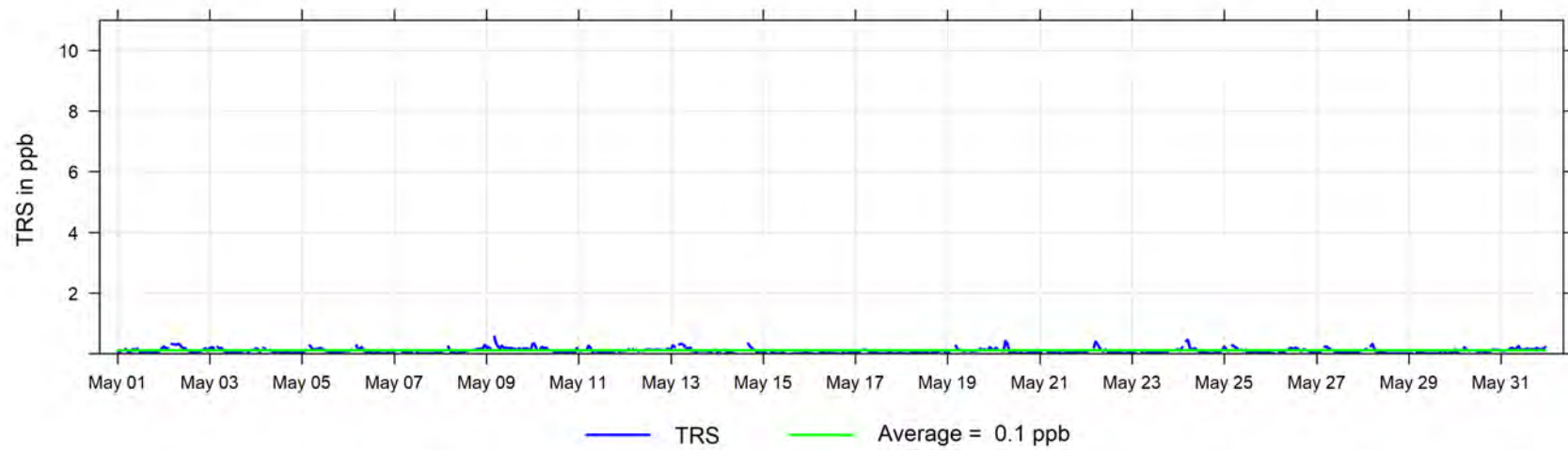
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



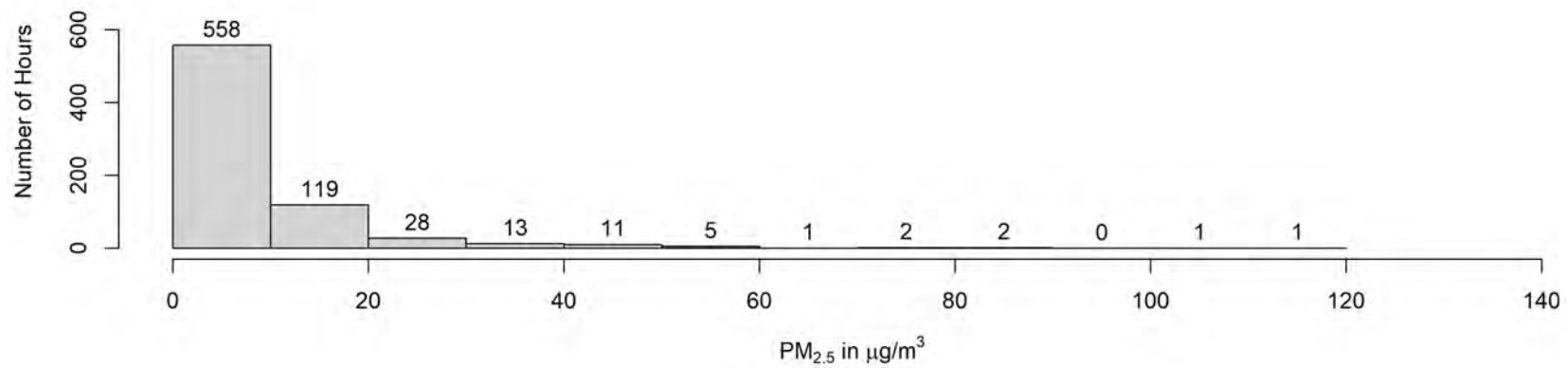
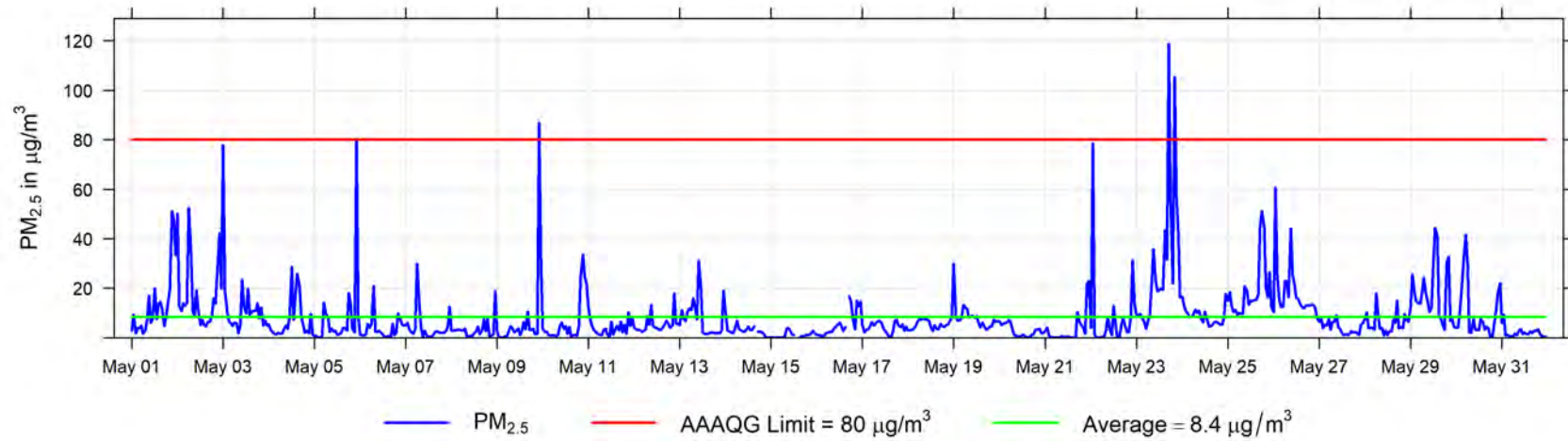
May 2025 30 min Concentration Readings of TRS (in ppb) at Smoky Heights



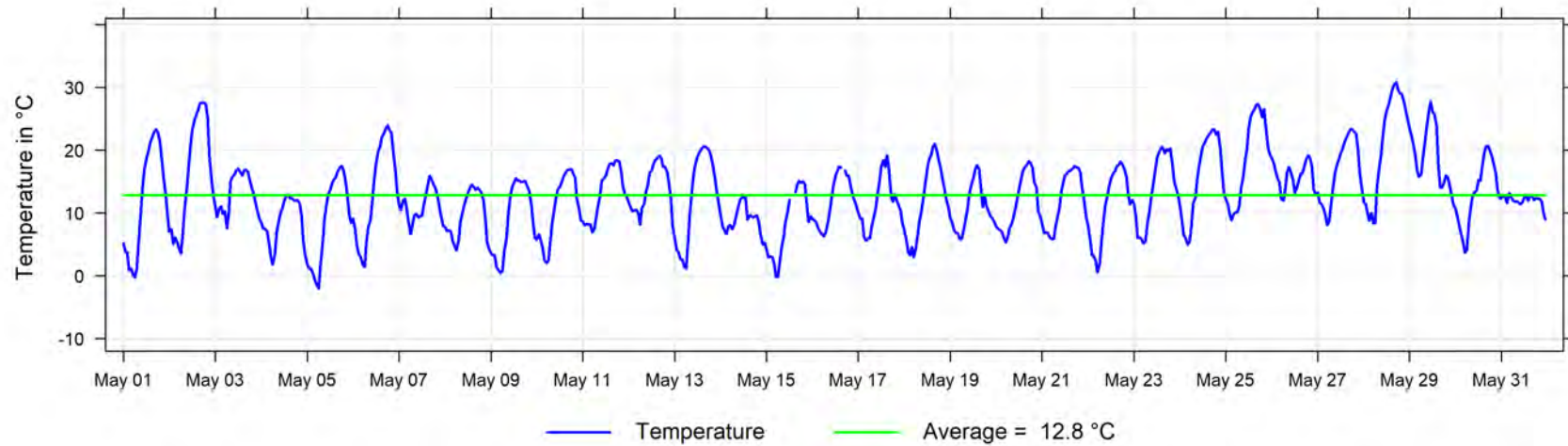
May 2025 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



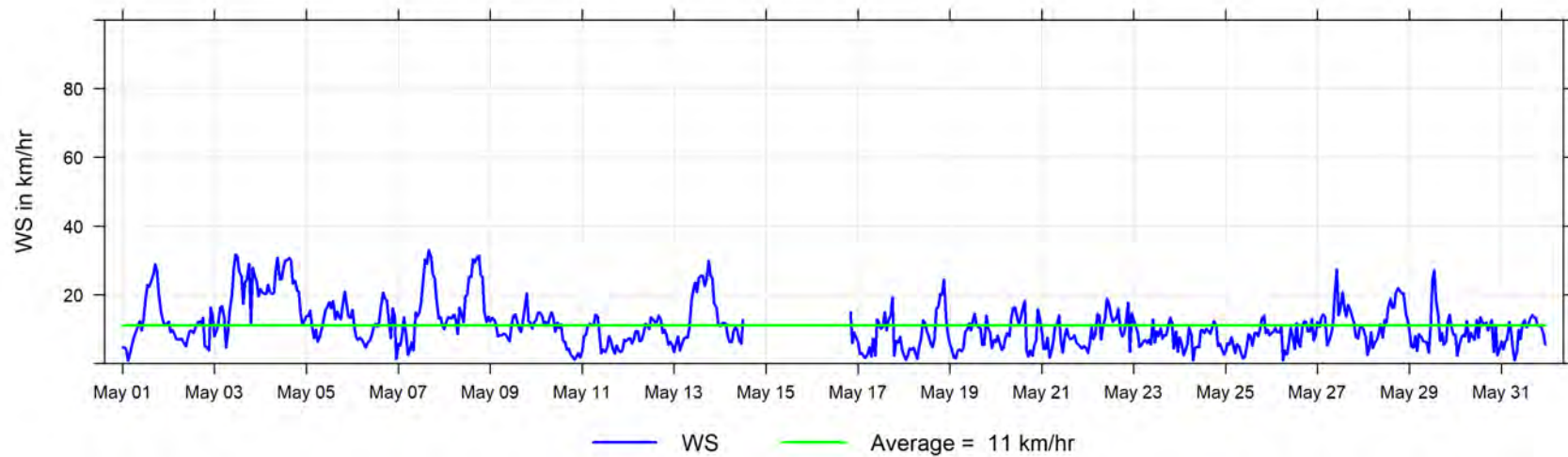
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



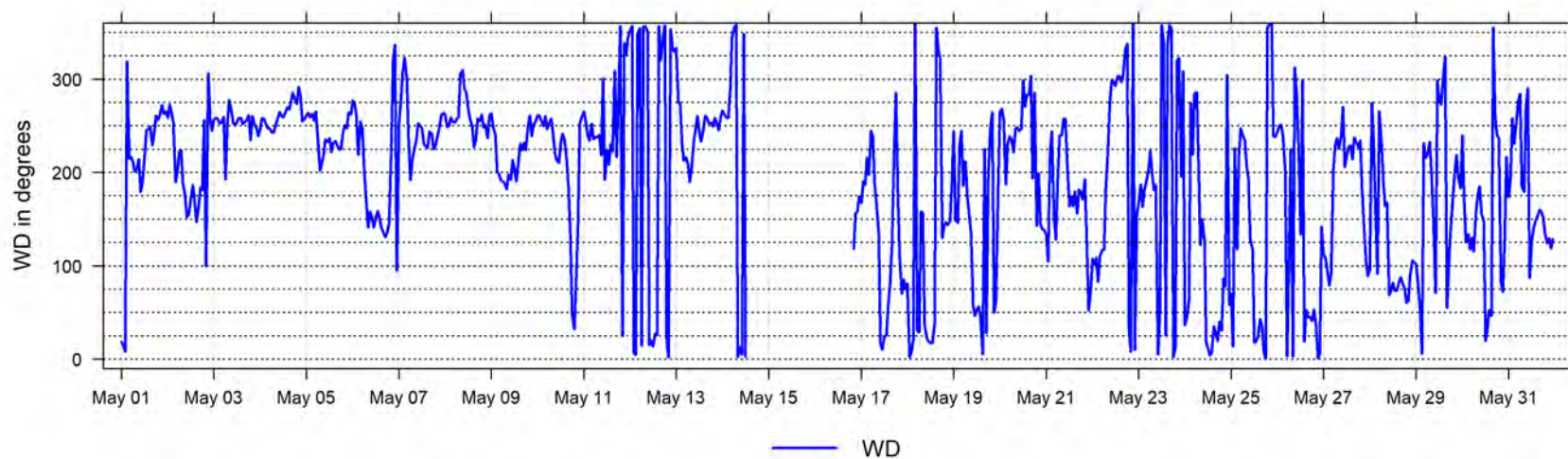
May 2025 Hourly Temperature Readings (in °C) at Smoky Heights



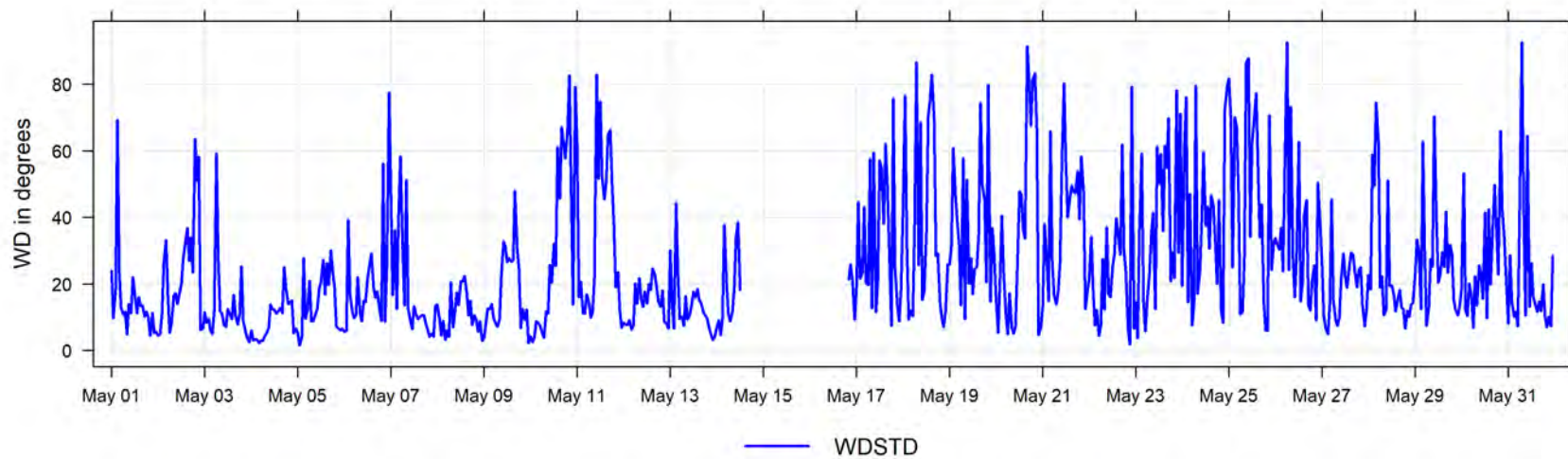
May 2025 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

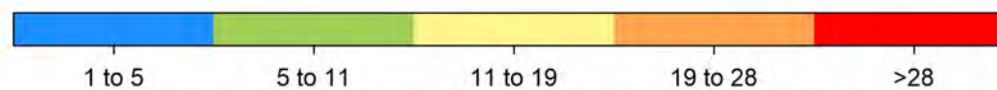
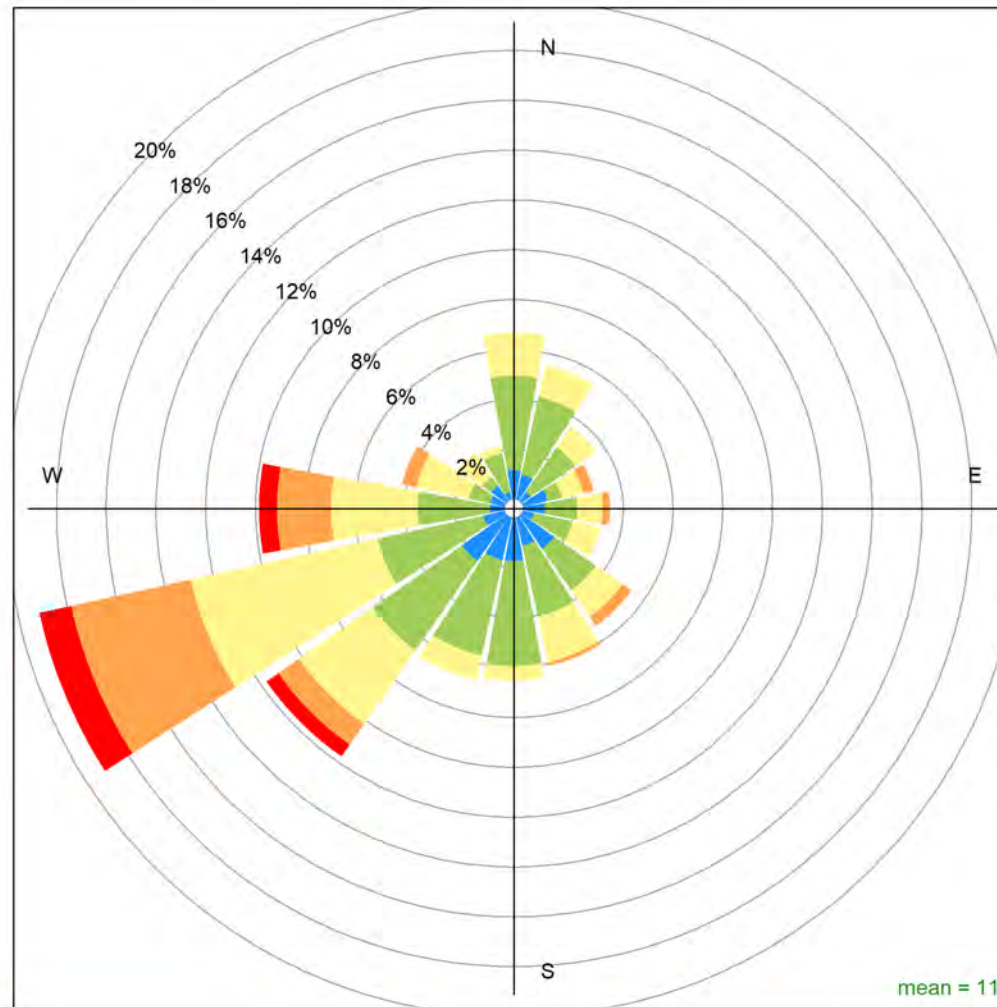


May 2025 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



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



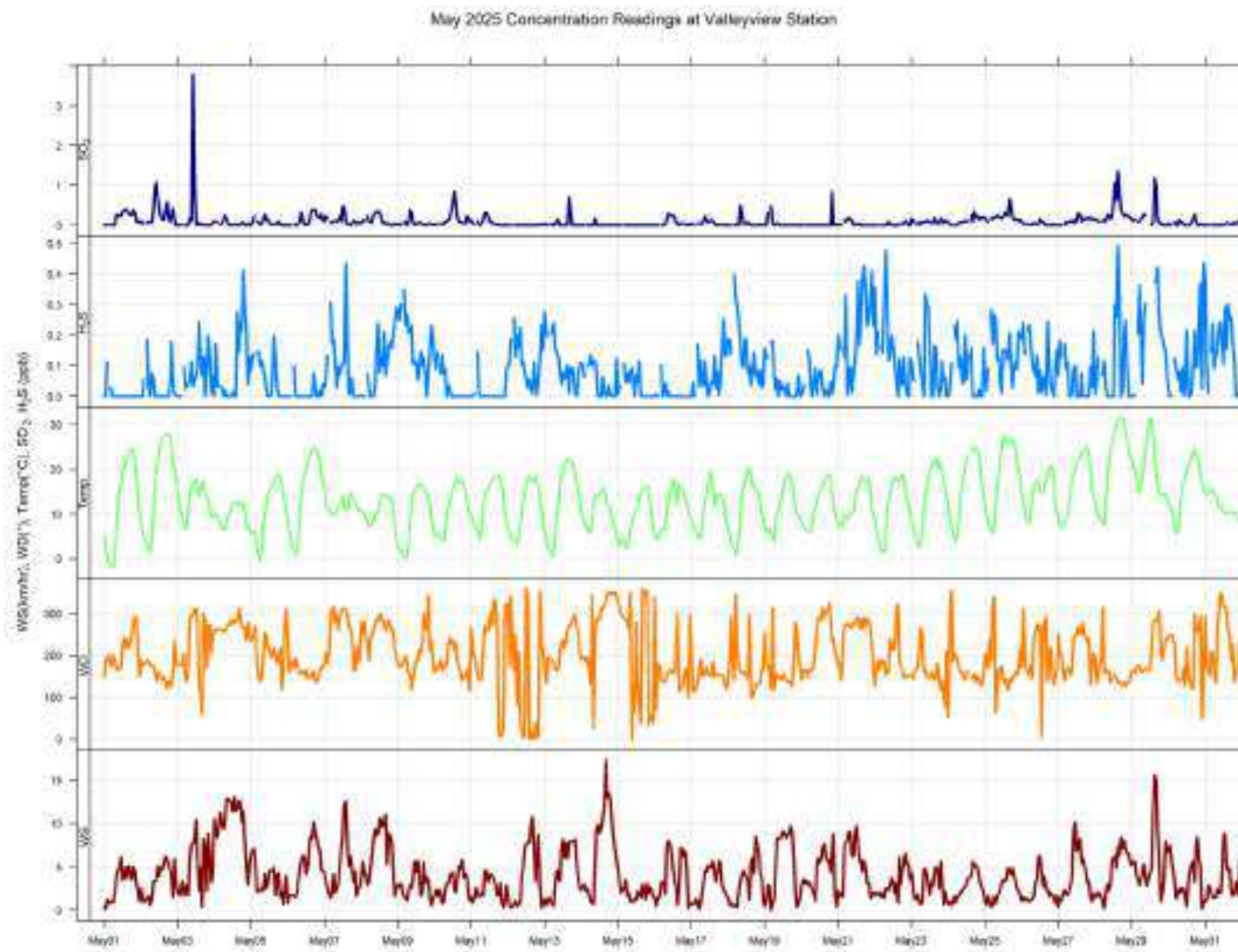


Smoky Heights May 2025 Wind Rose, wind speed in km/hr

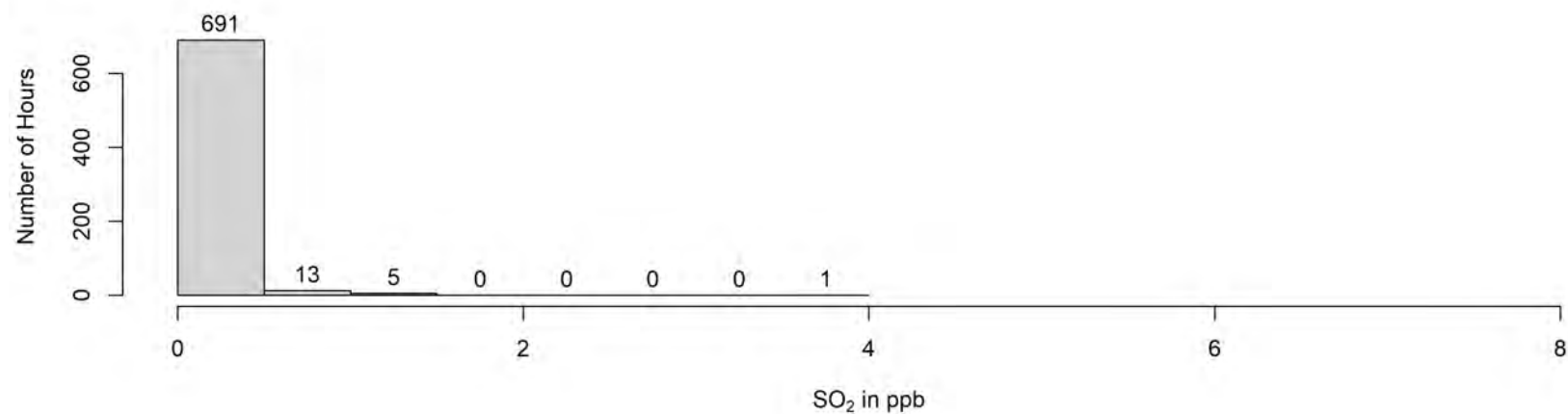
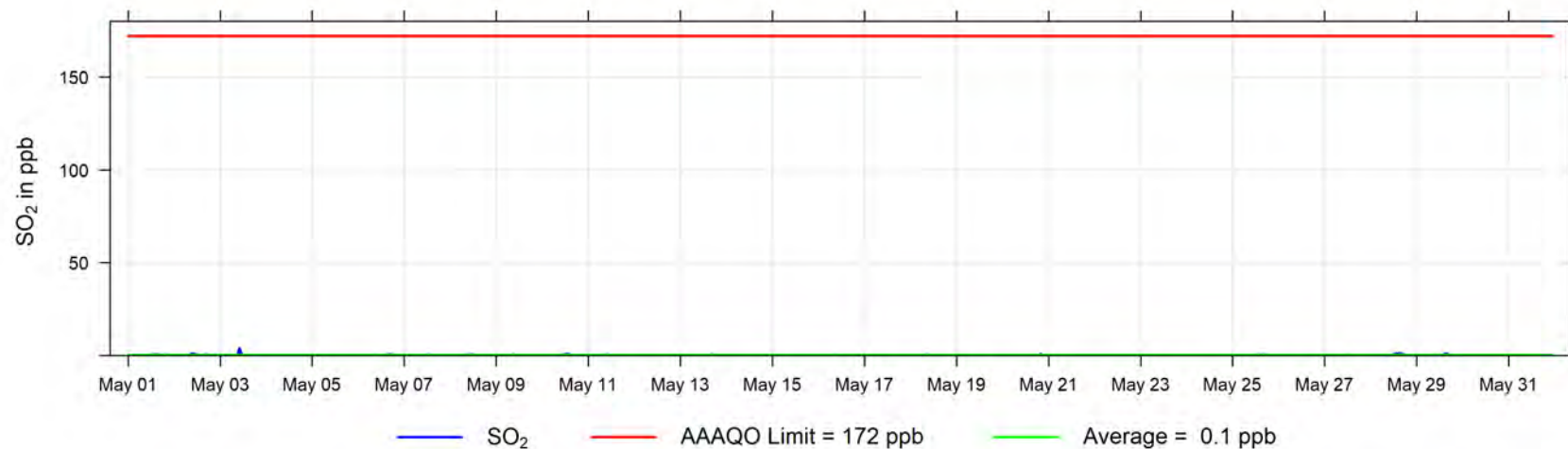
Calms (<1km/hr) = 0.6 %

6 Valleyview Charts

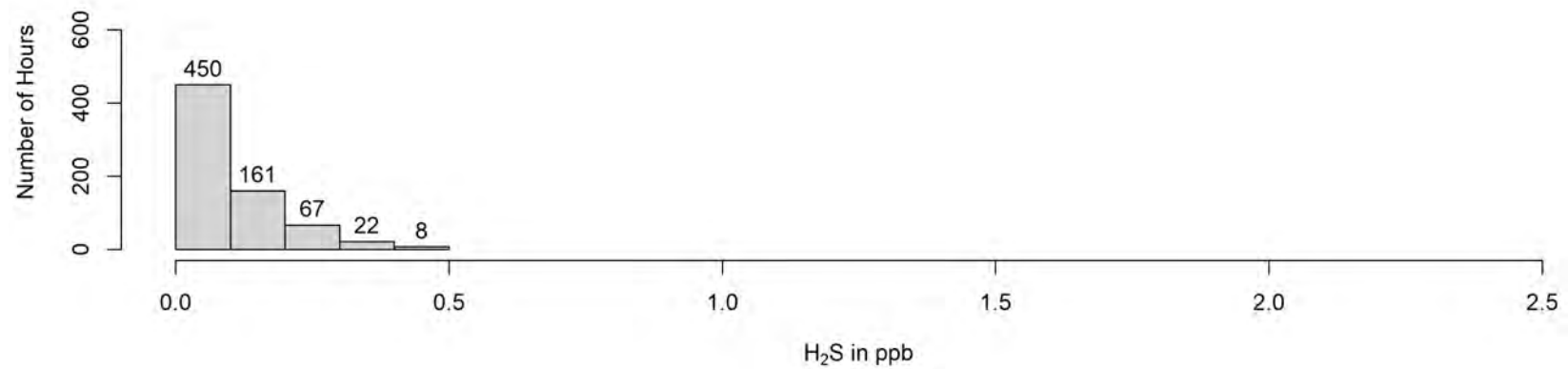
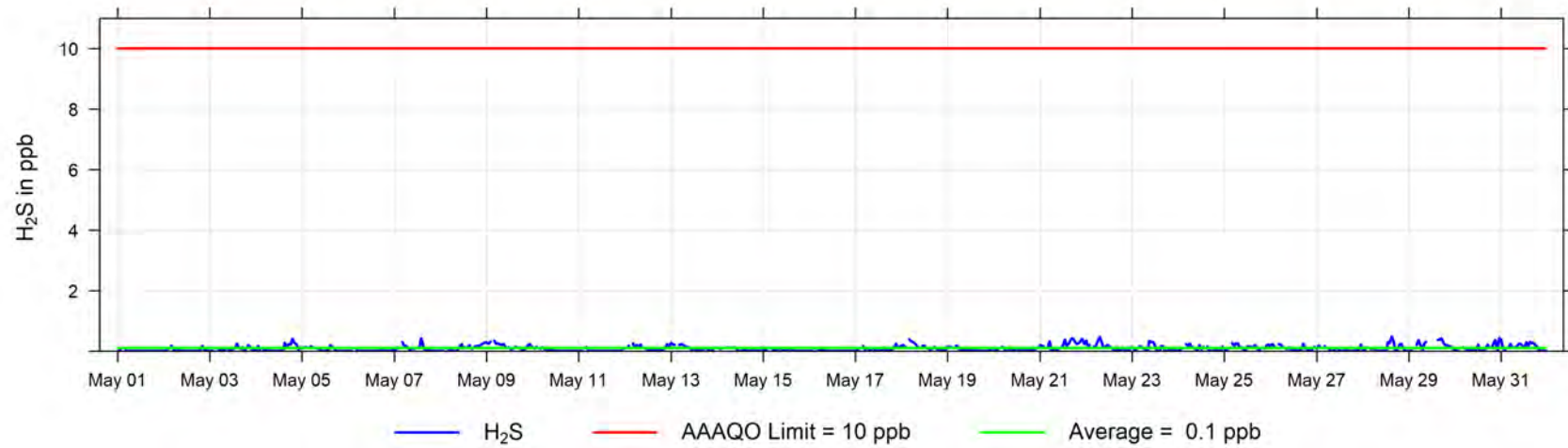
The following pages include the charts and histograms for Valleyview Station



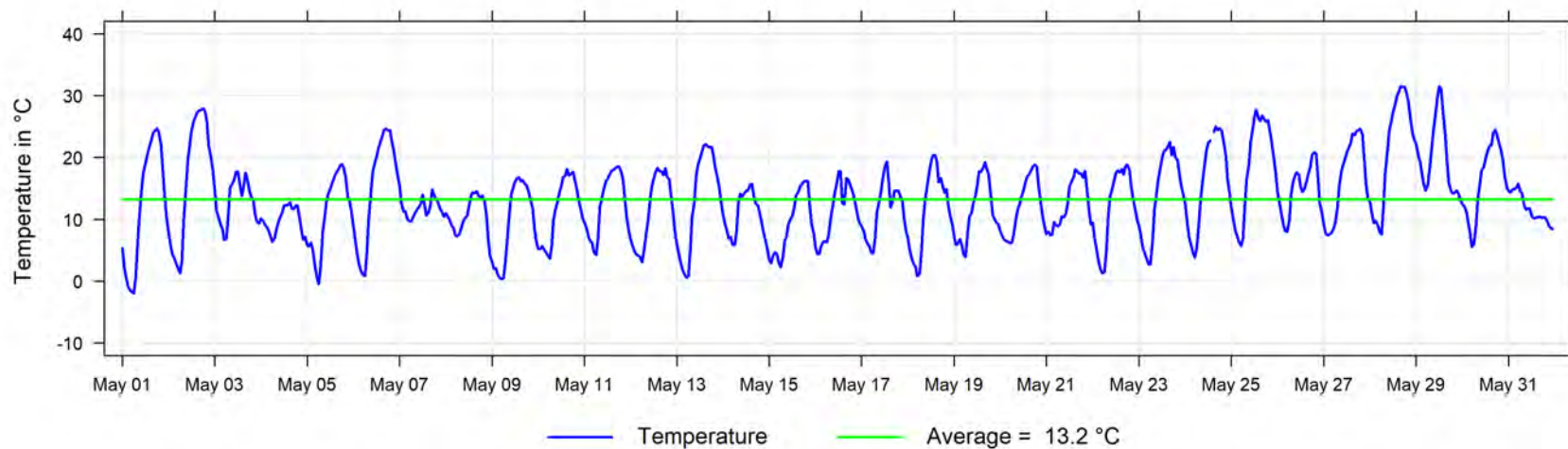
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



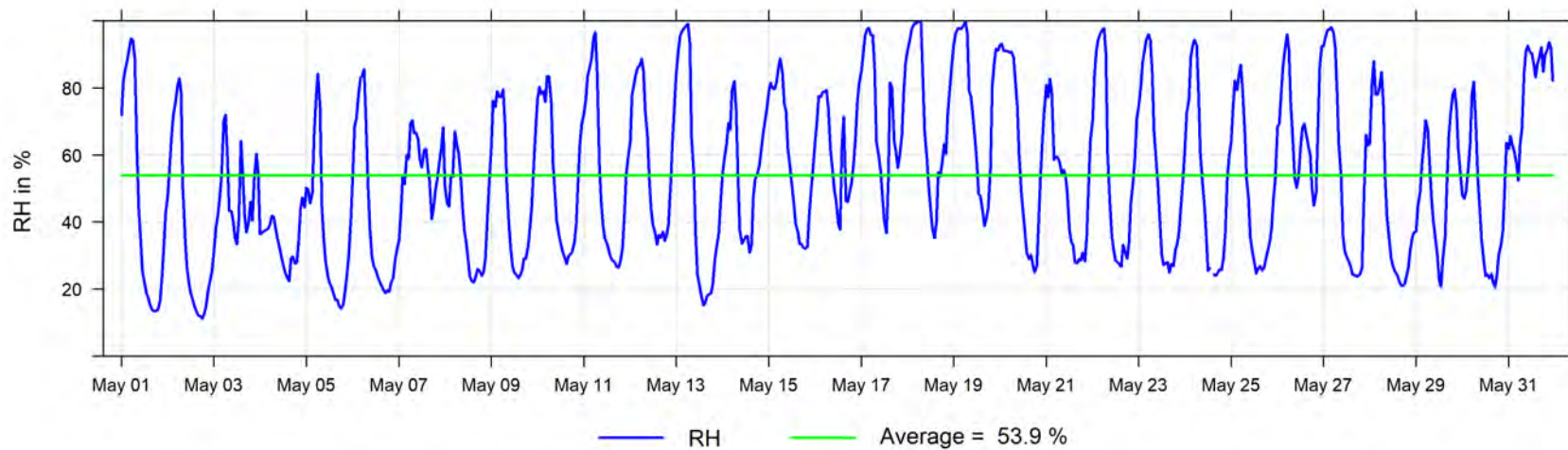
May 2025 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



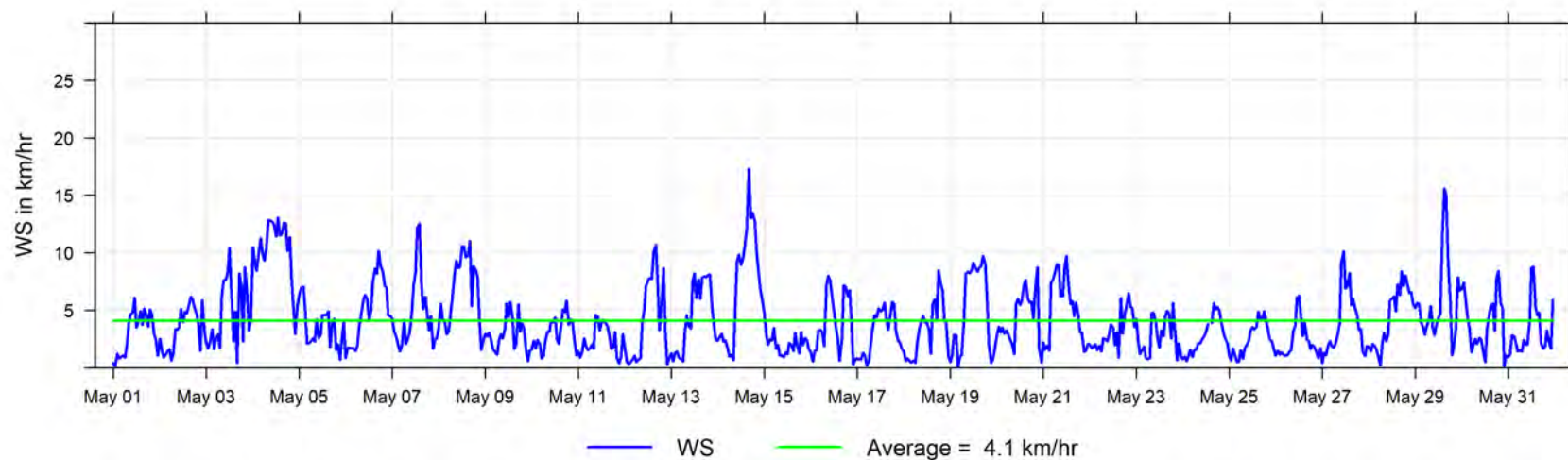
May 2025 Hourly Temperature Readings (in °C) at Valleyview



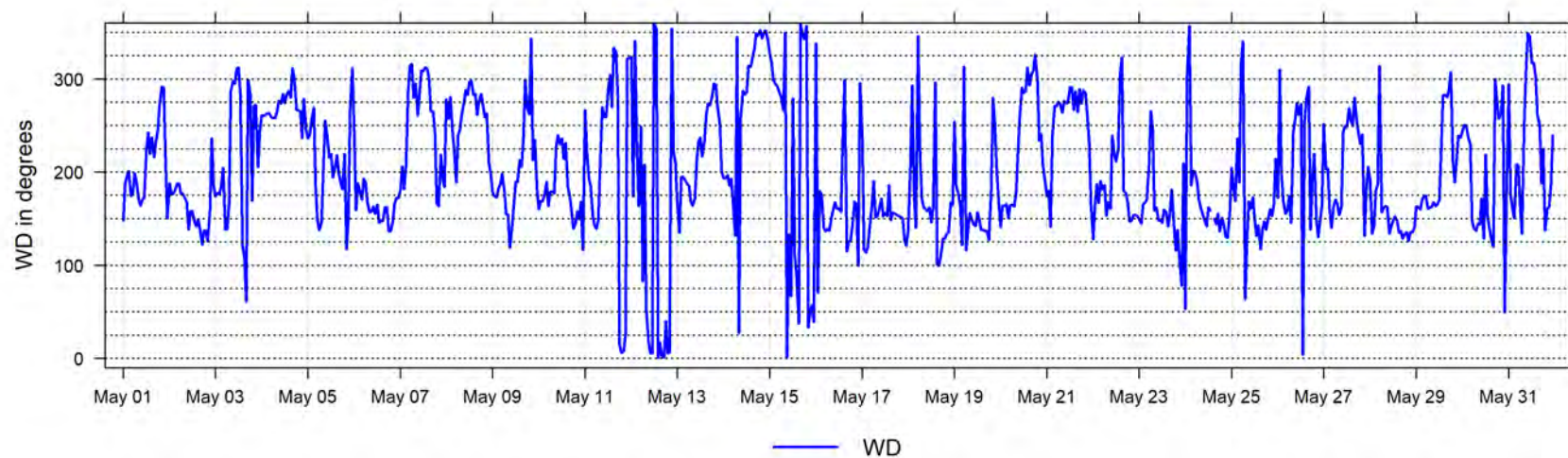
May 2025 Hourly Readings of Relative Humidity (in %) at Valleyview



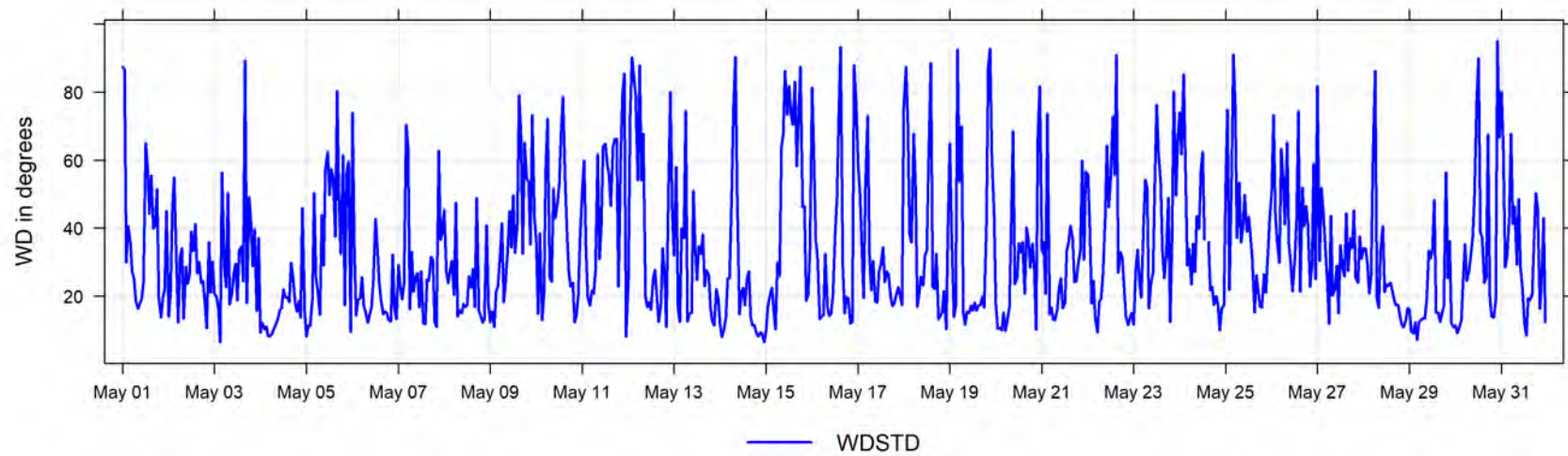
May 2025 Hourly Readings of Wind Speed (in km/hr) at Valleyview

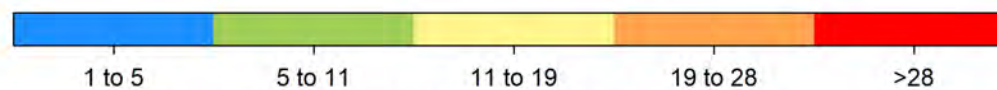
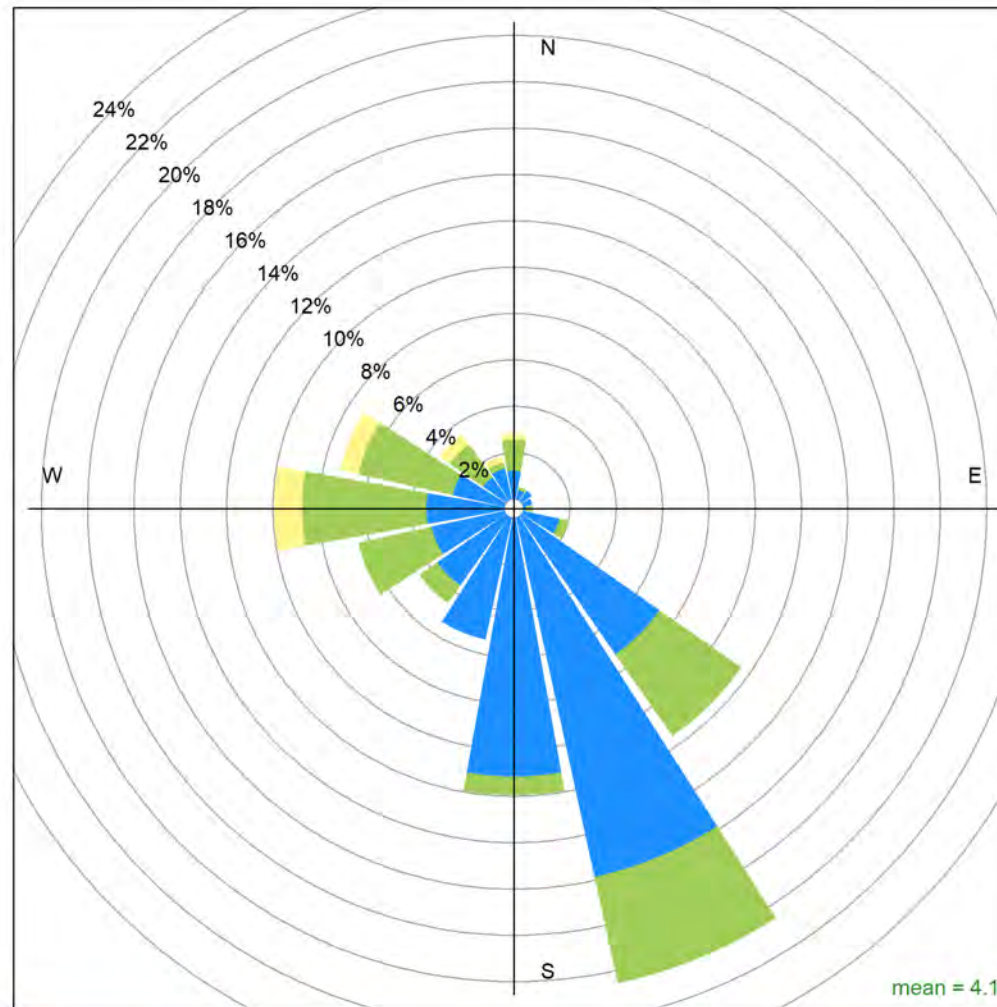


May 2025 Hourly Readings of Wind Direction (in degrees) at Valleyview



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



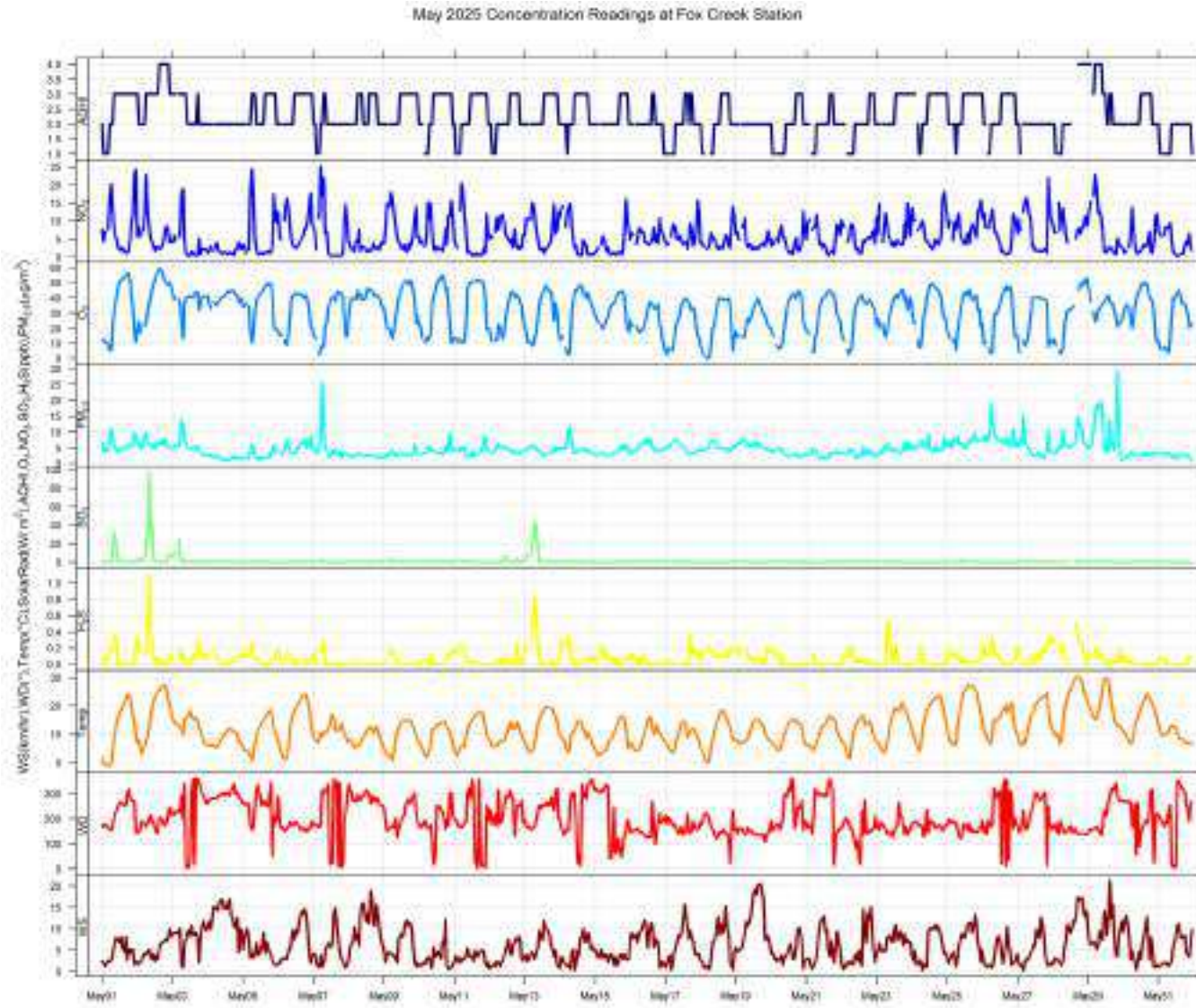


Valleyview May 2025 Wind Rose, wind speed in km/hr

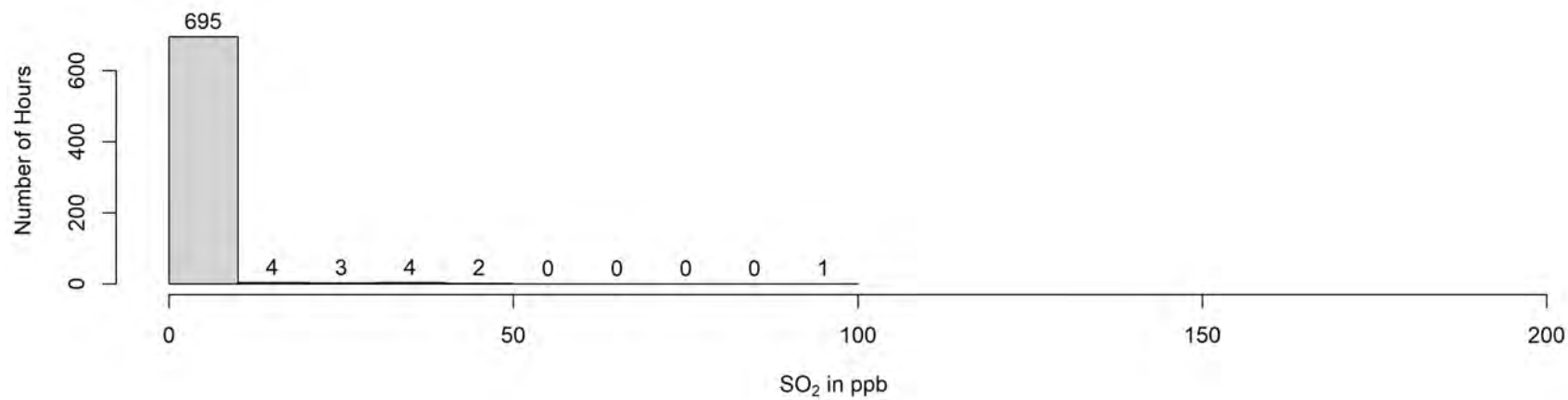
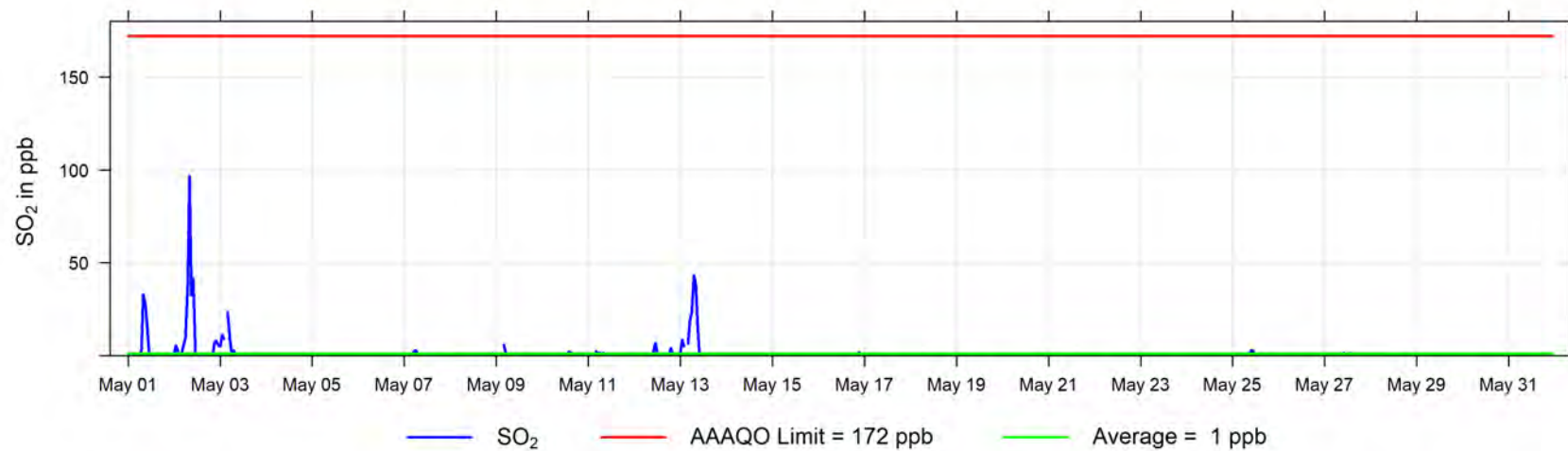
Calms (<1km/hr) = 10.2 %

7 Fox Creek Charts

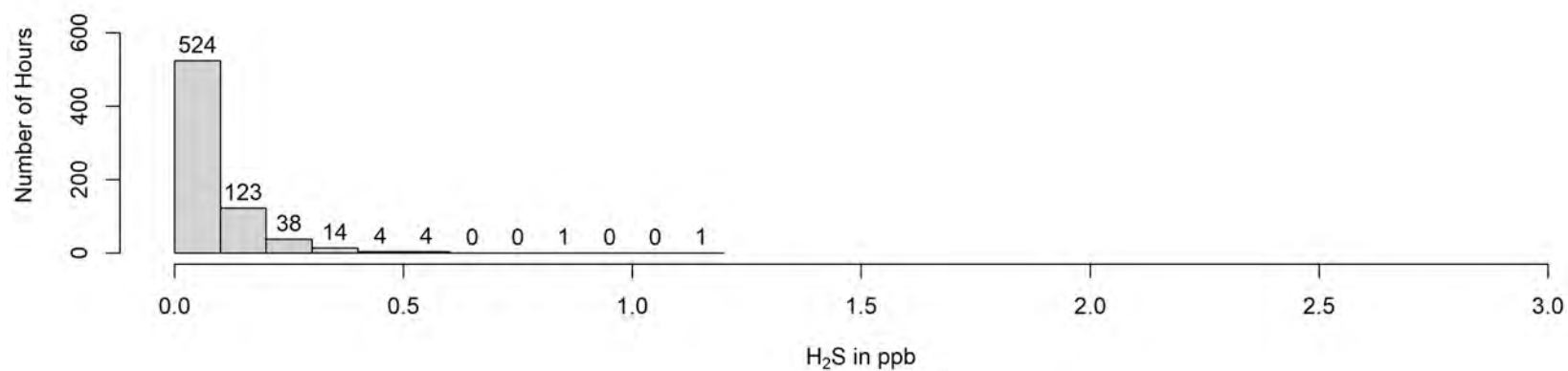
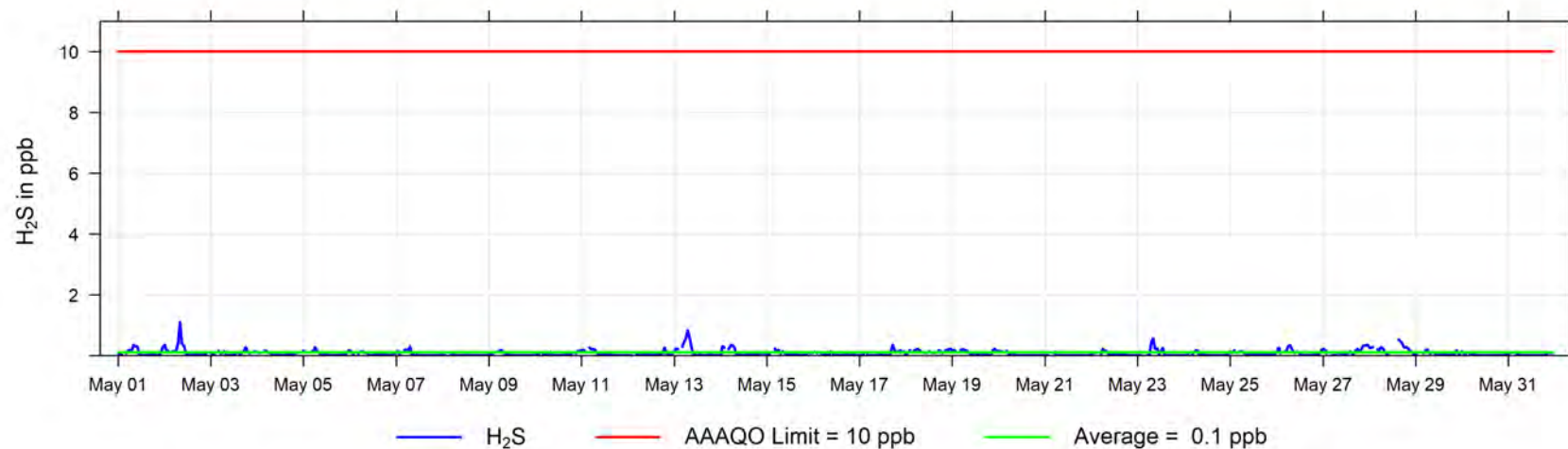
The following pages include the charts and histograms for Fox Creek Station



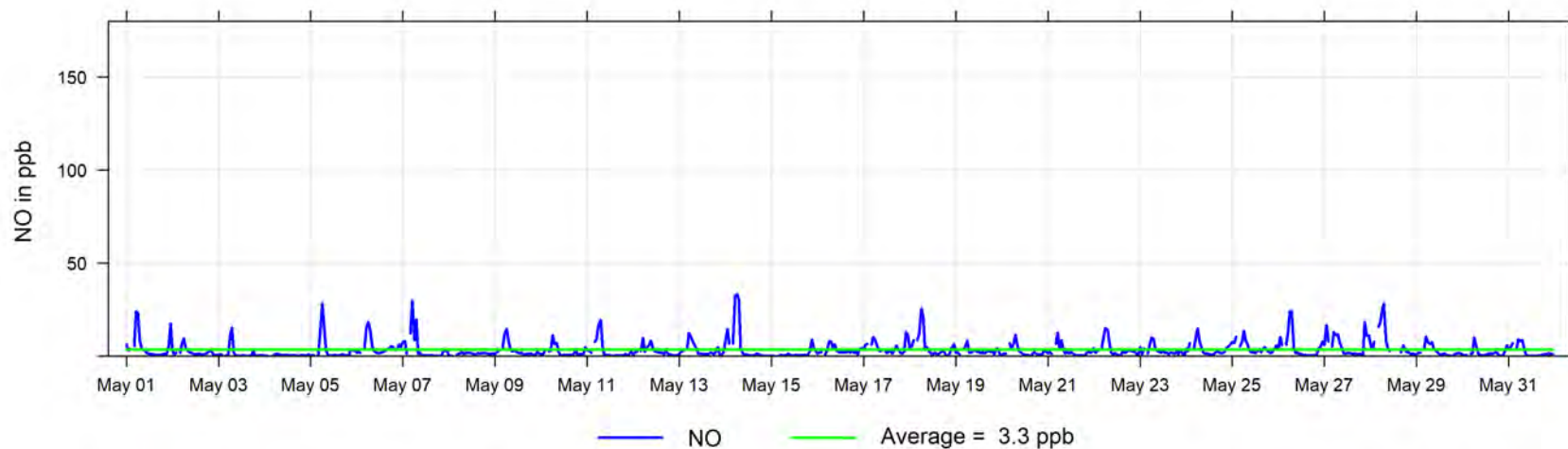
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



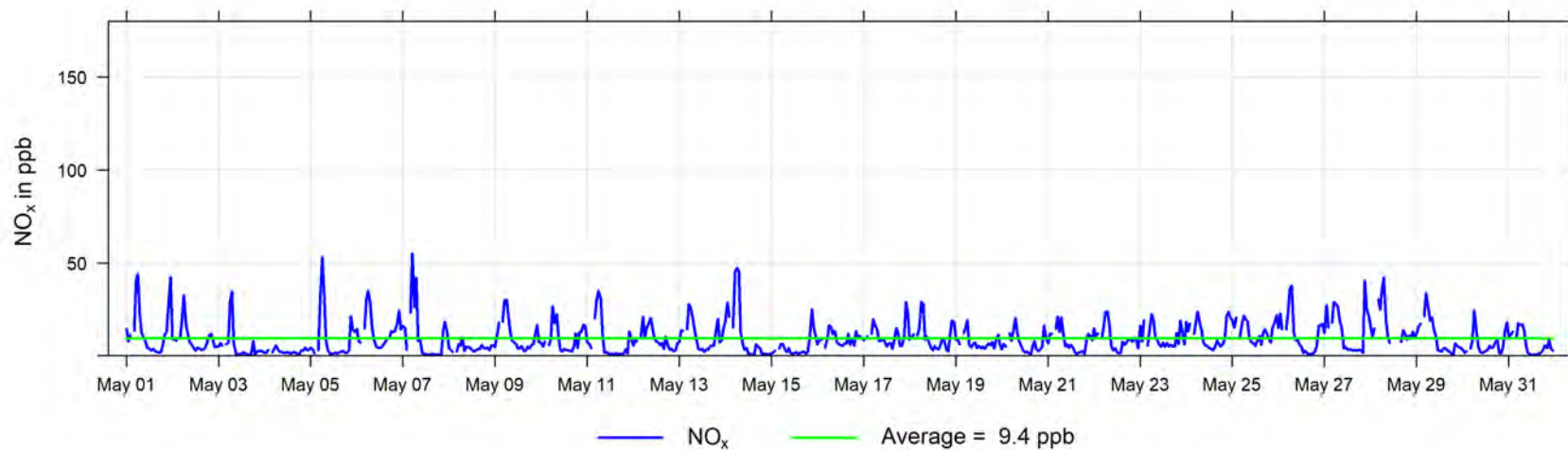
May 2025 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



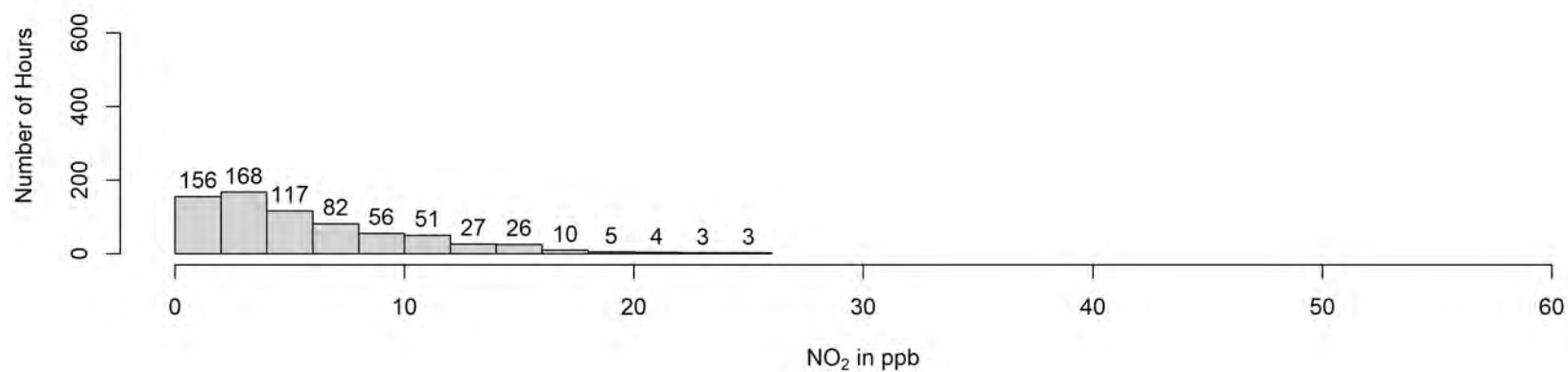
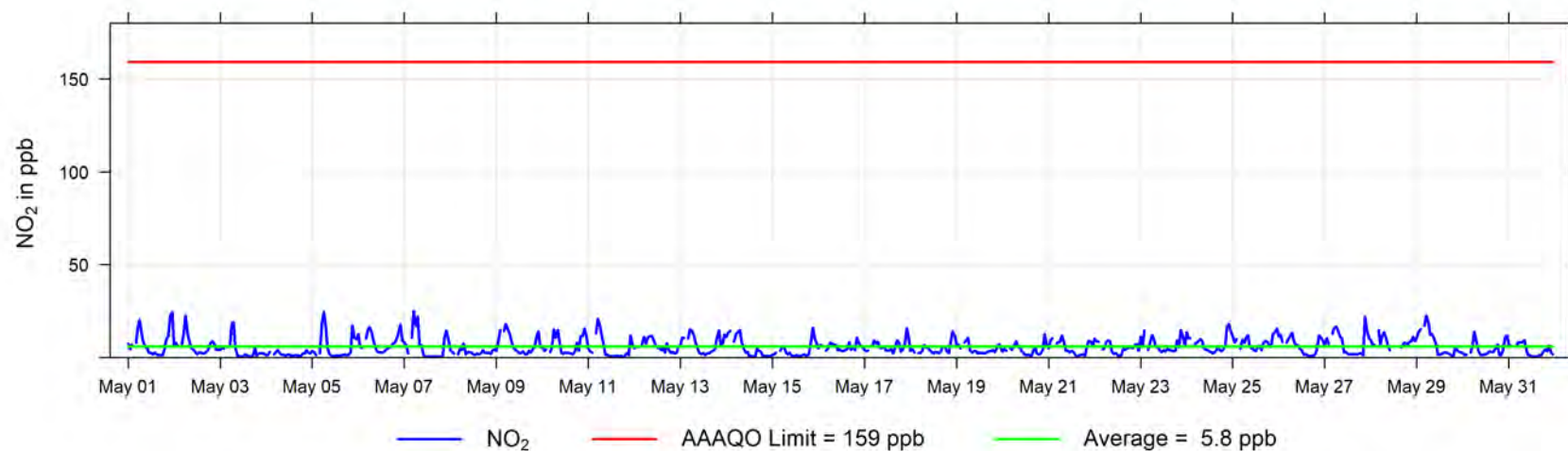
May 2025 Hourly Concentration Readings of NO (in ppb) at Fox Creek



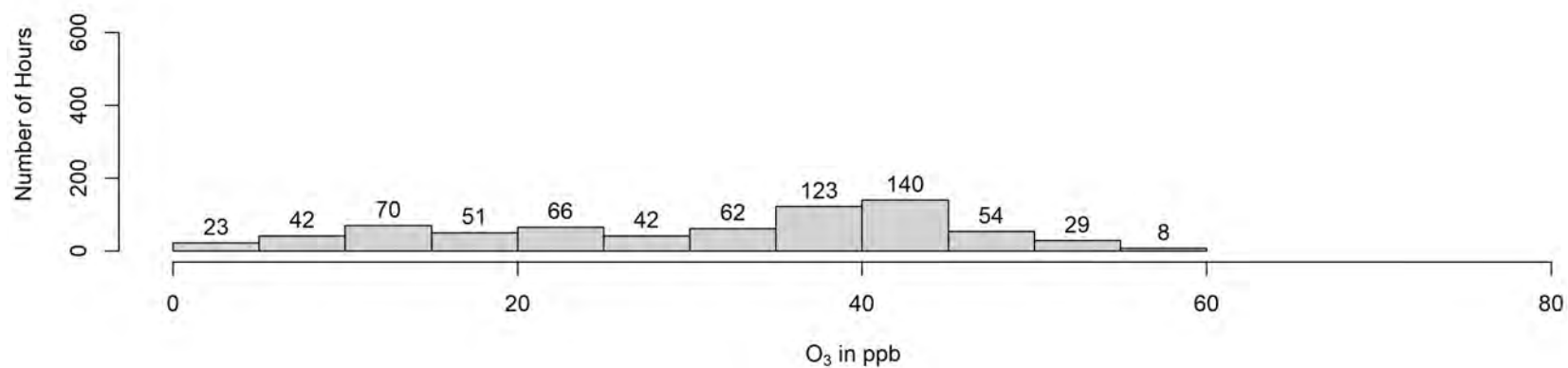
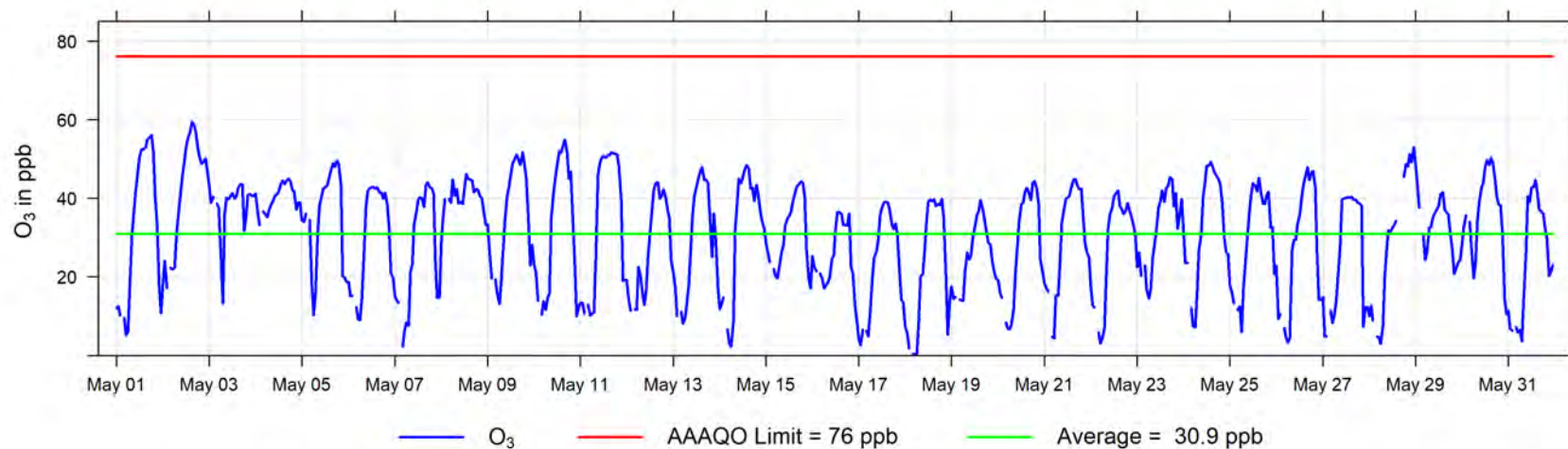
May 2025 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



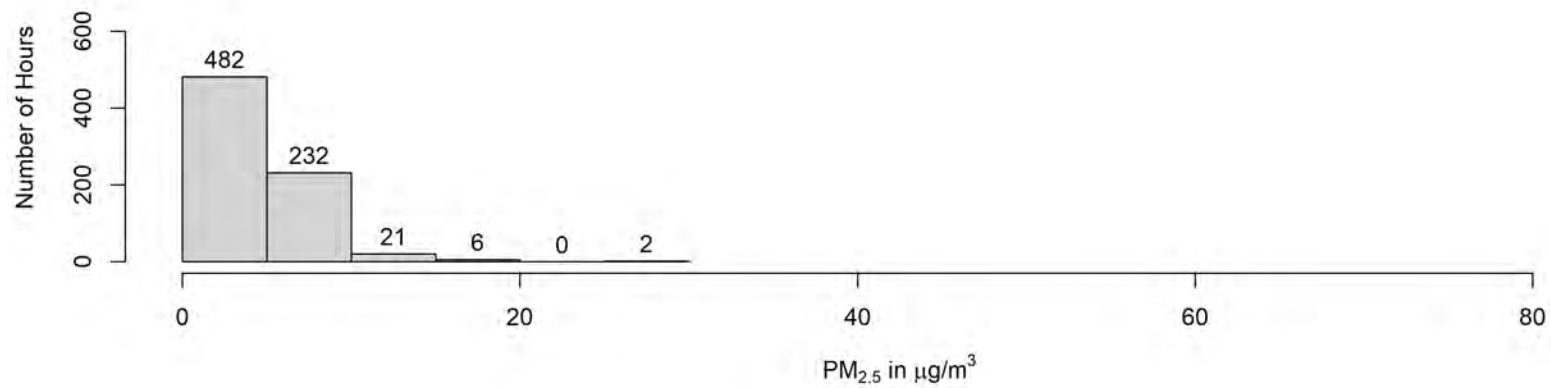
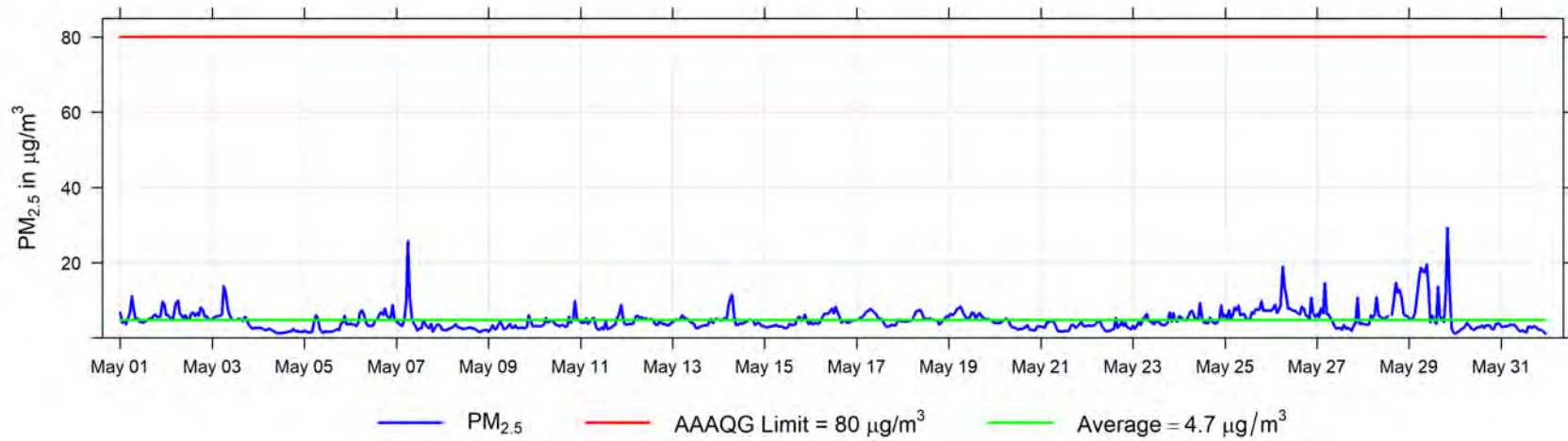
May 2025 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



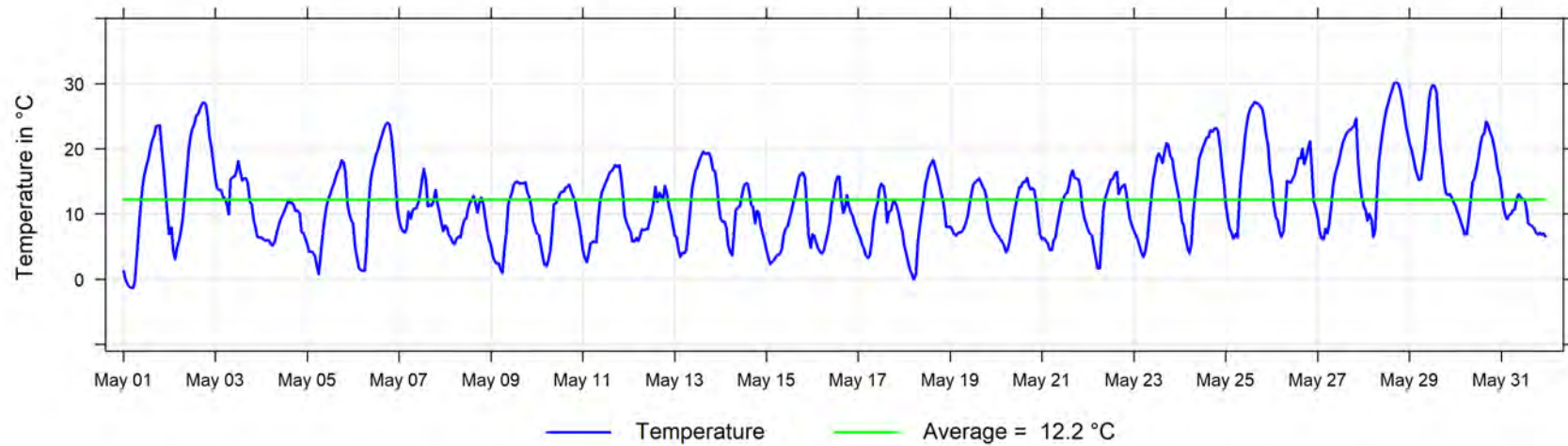
May 2025 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



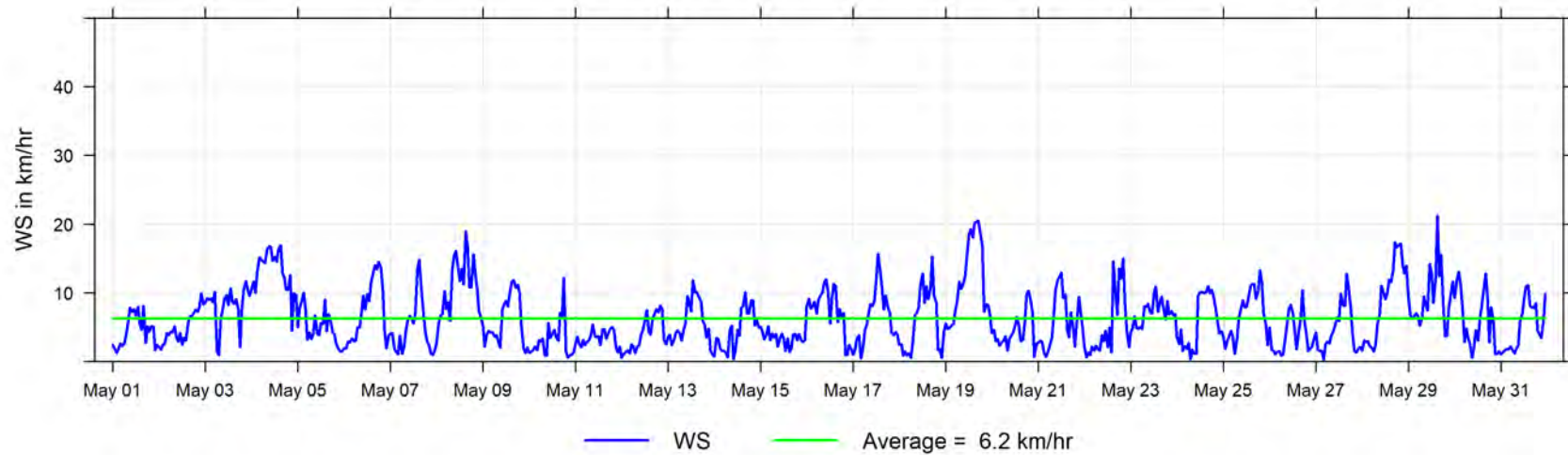
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



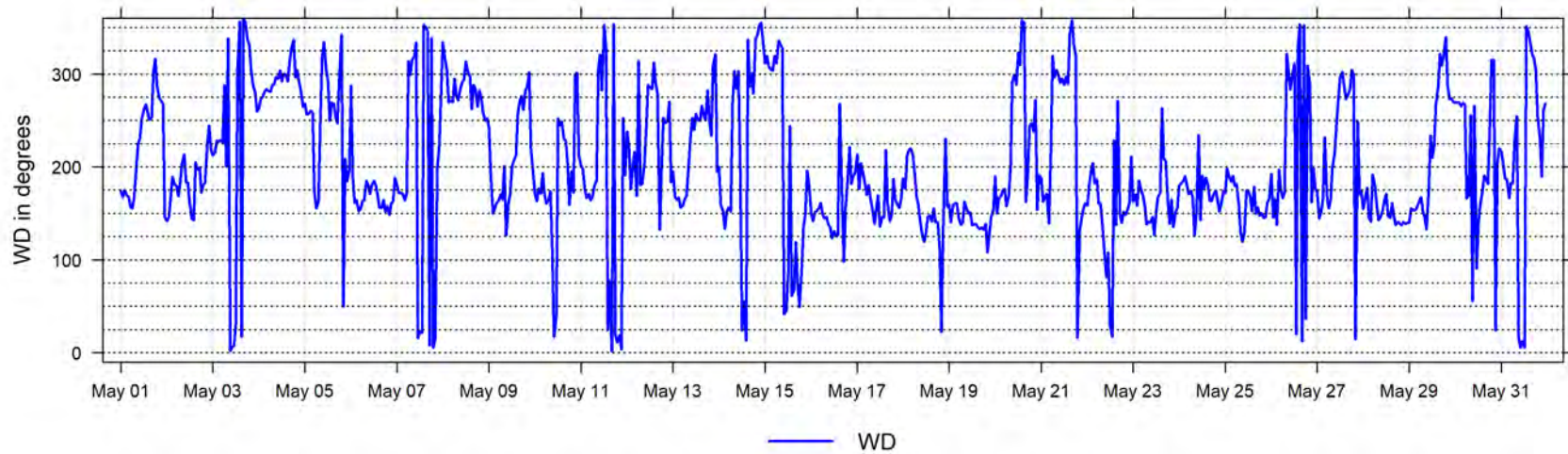
May 2025 Hourly Temperature Readings (in °C) at Fox Creek



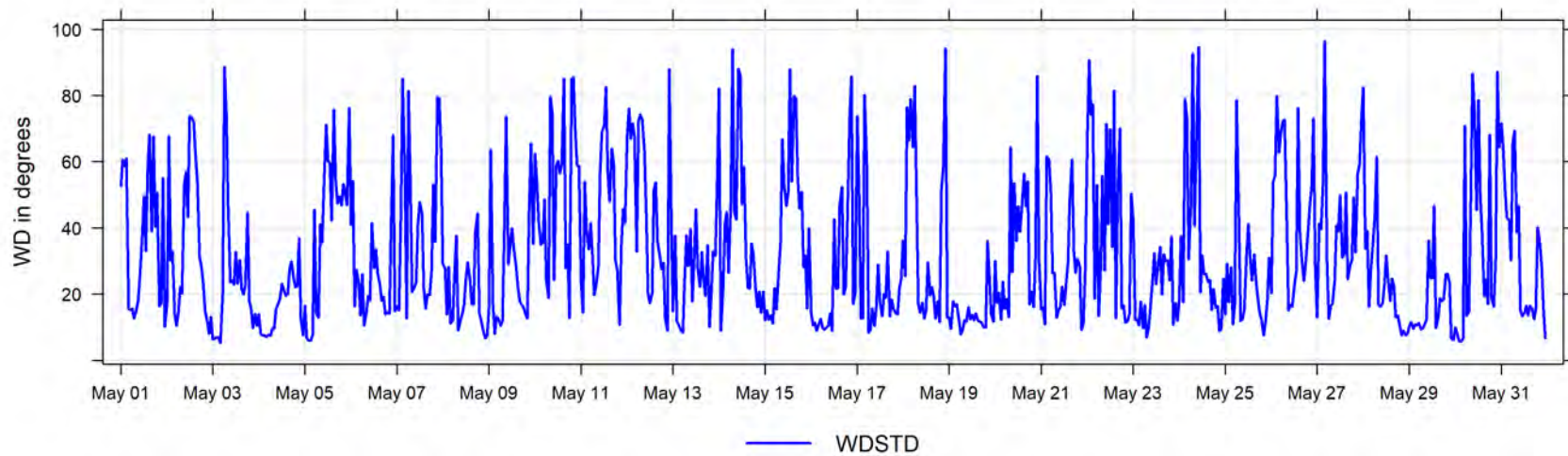
May 2025 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

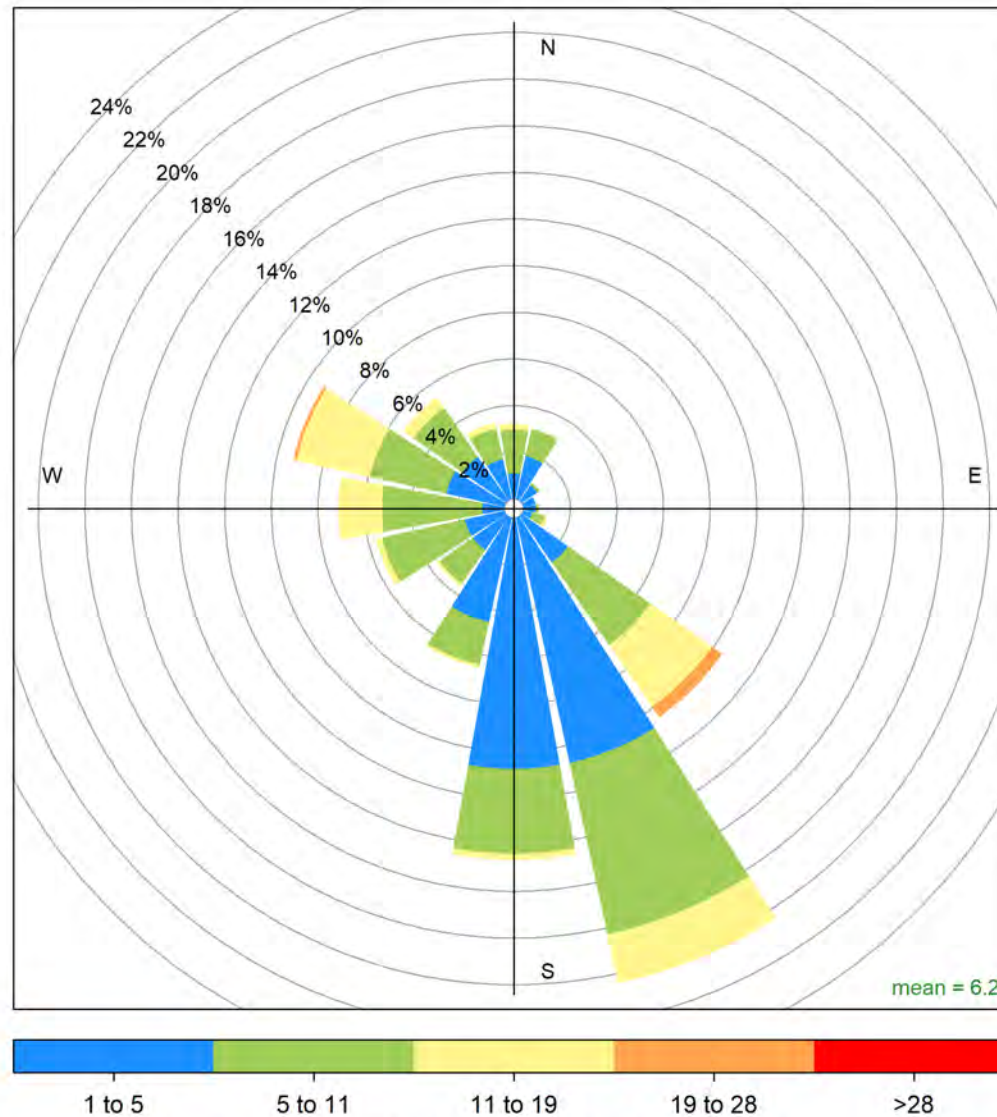


May 2025 Hourly Readings of Wind Direction (in degrees) at Fox Creek



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



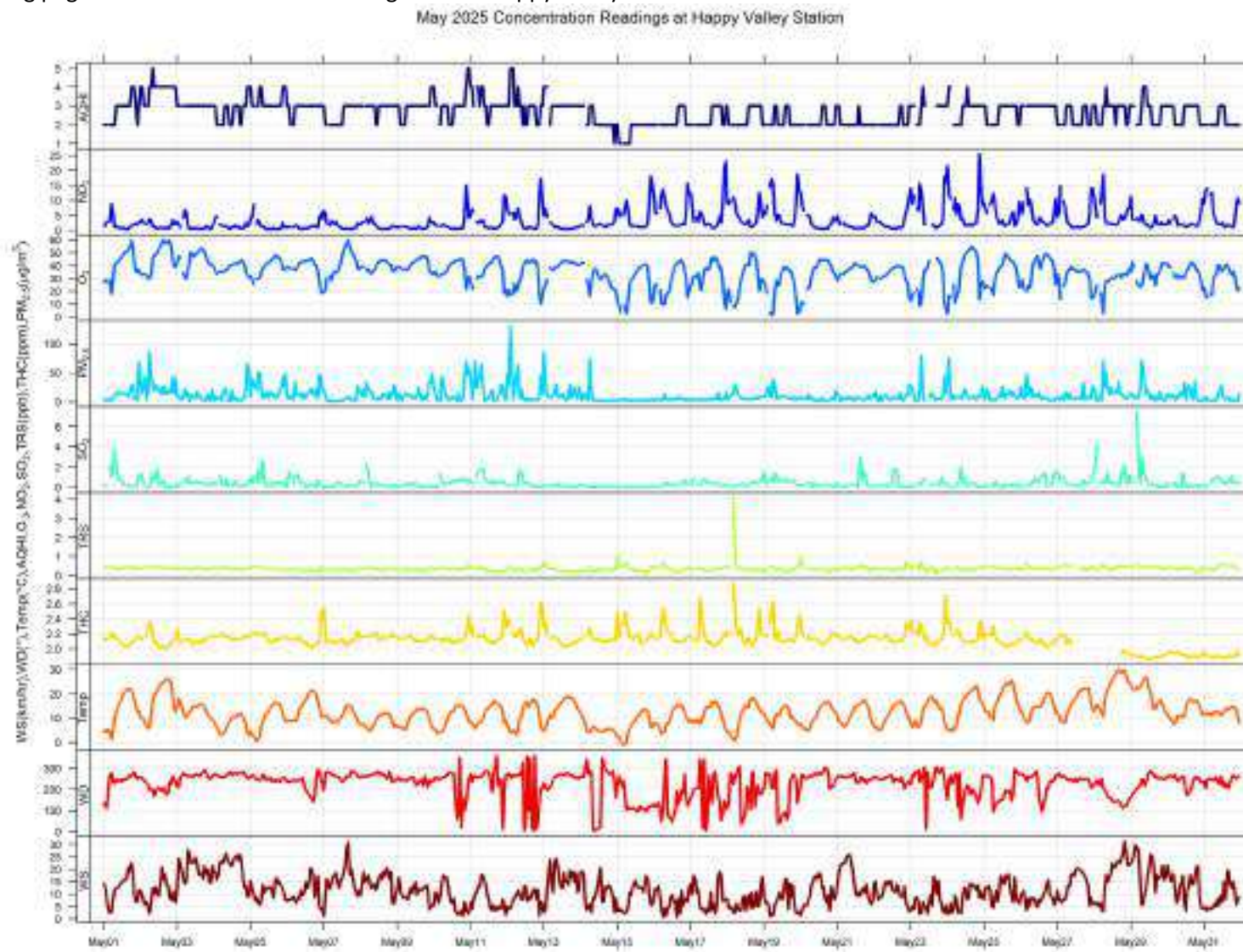


Fox Creek May 2025 Wind Rose, wind speed in km/hr

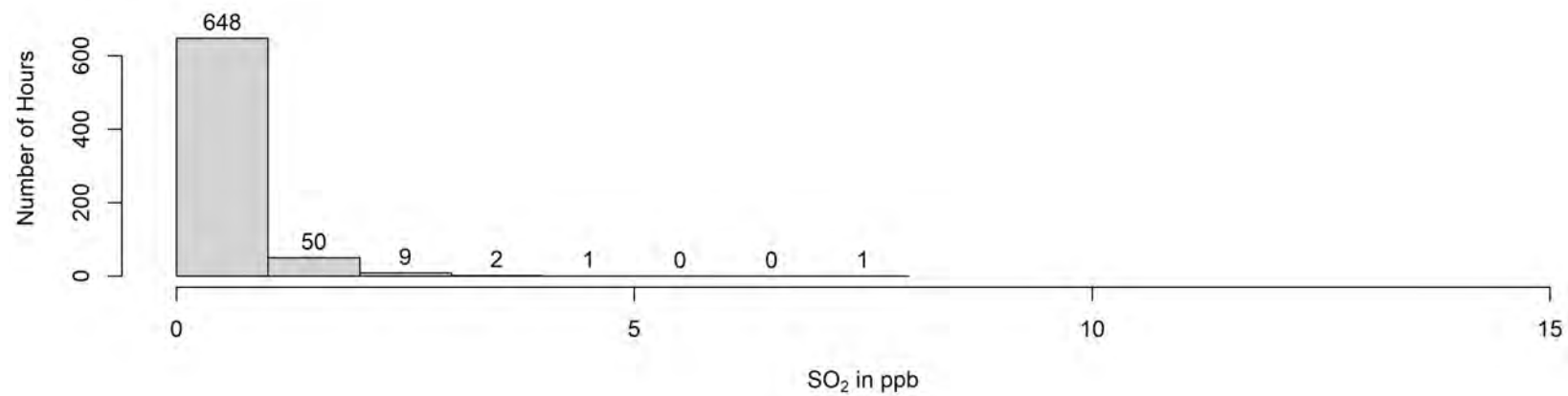
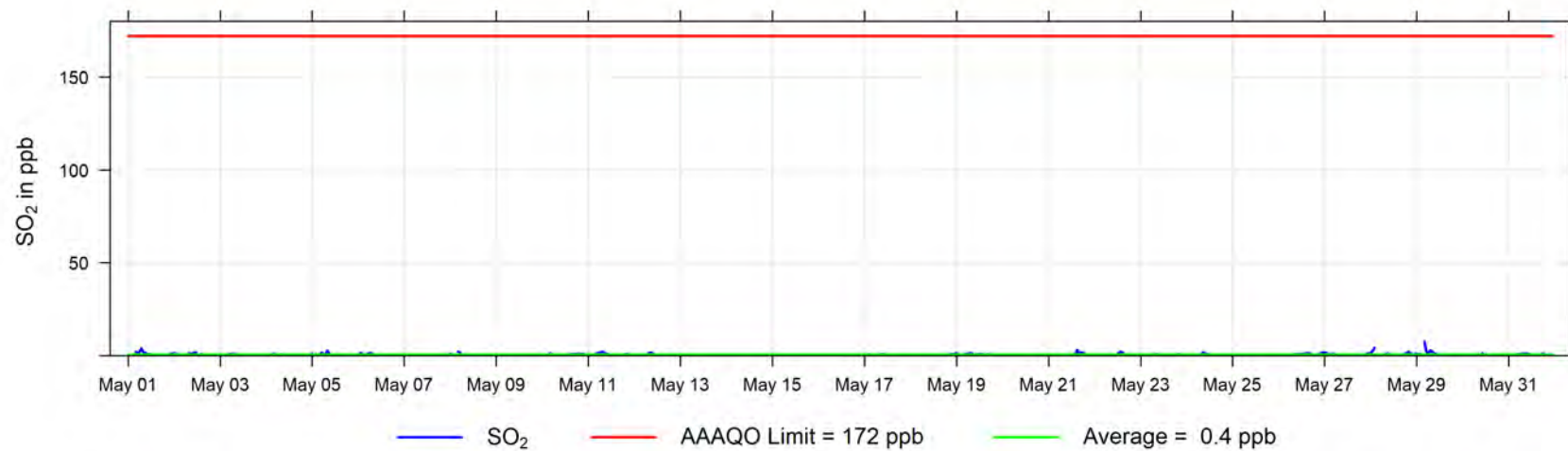
Calms (<1km/hr) = 3.8 %

8 Happy Valley (Portable) Charts

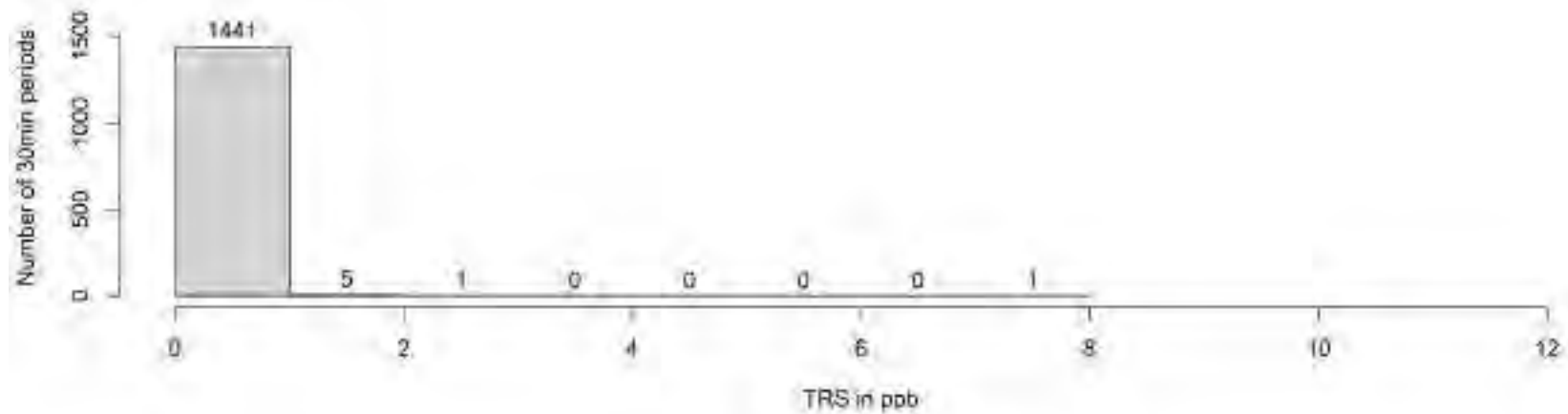
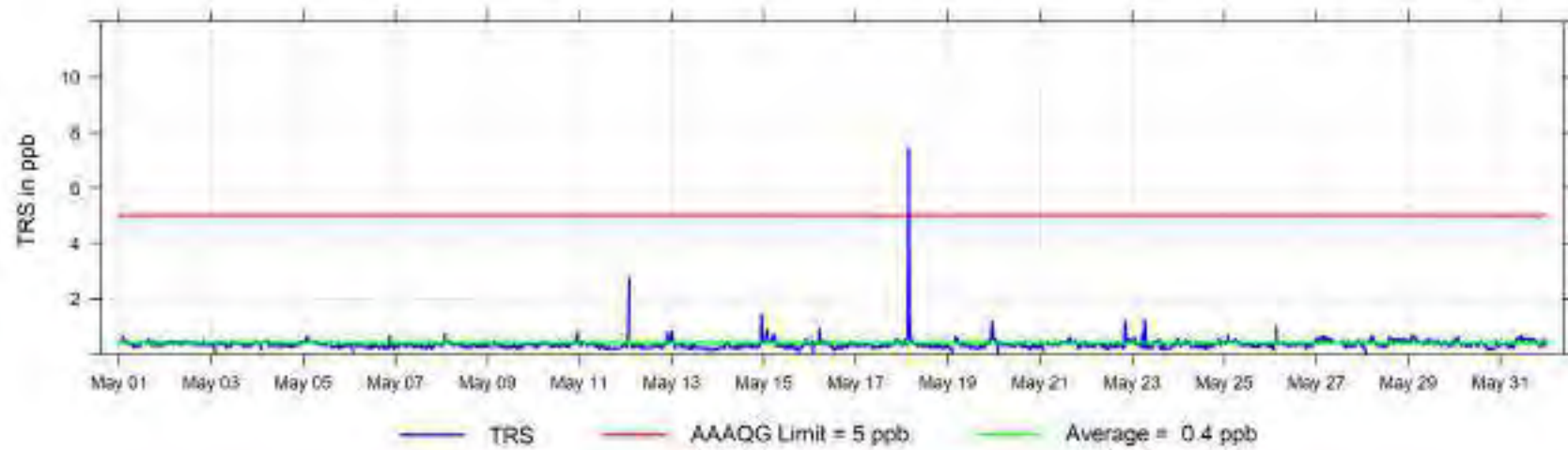
The following pages include the charts and histograms for Happy Valley Portable Station



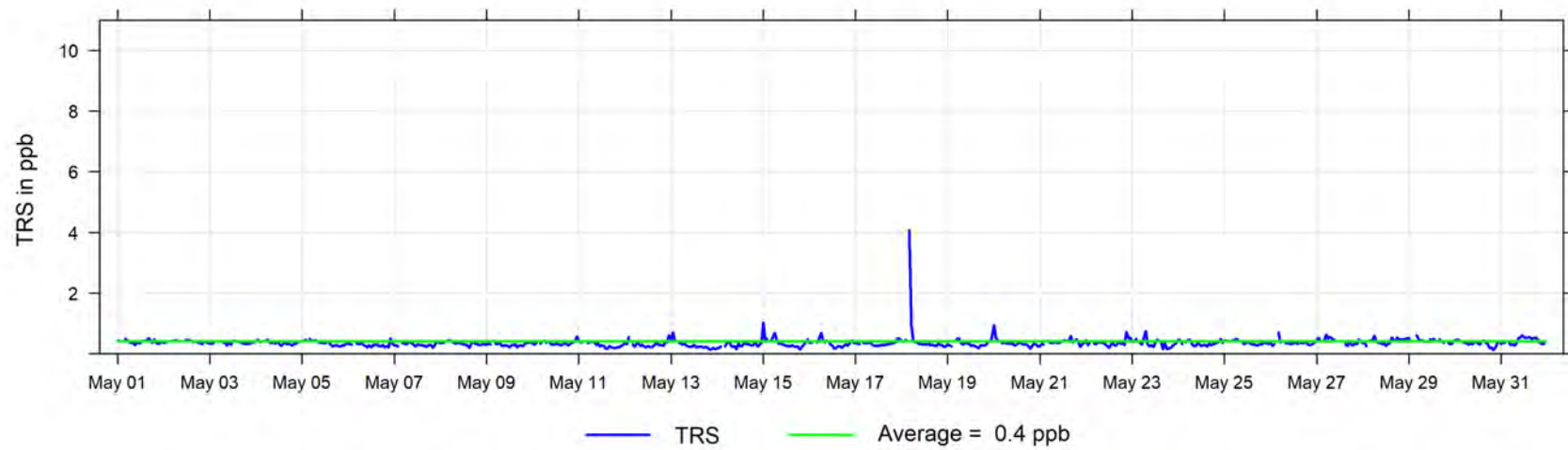
May 2025 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



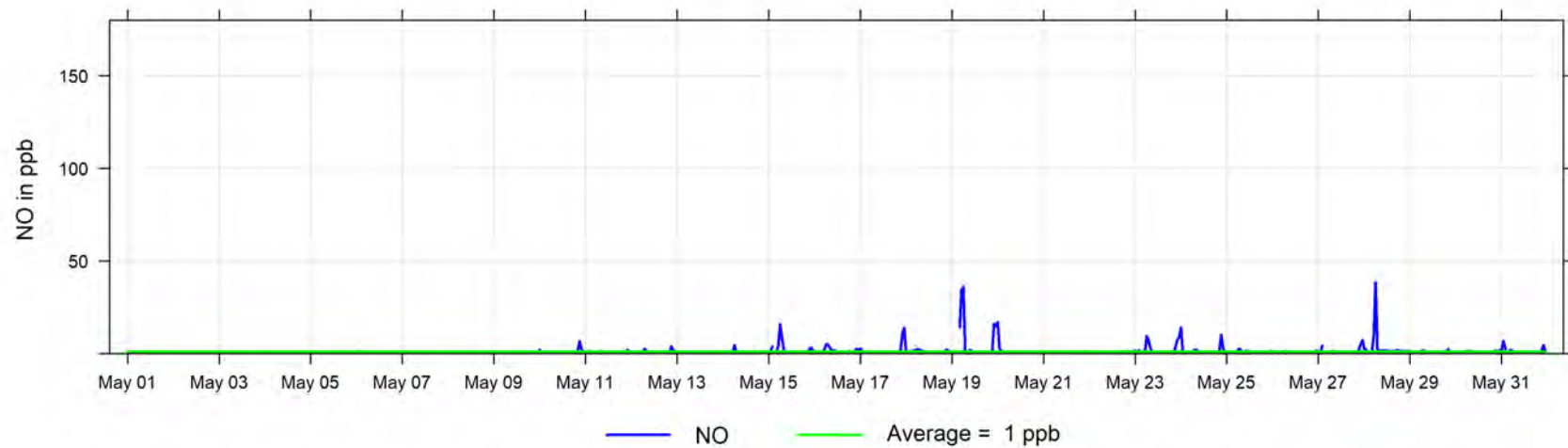
May 2025 30 min Concentration Readings of TRS (in ppb) at Happy Valley



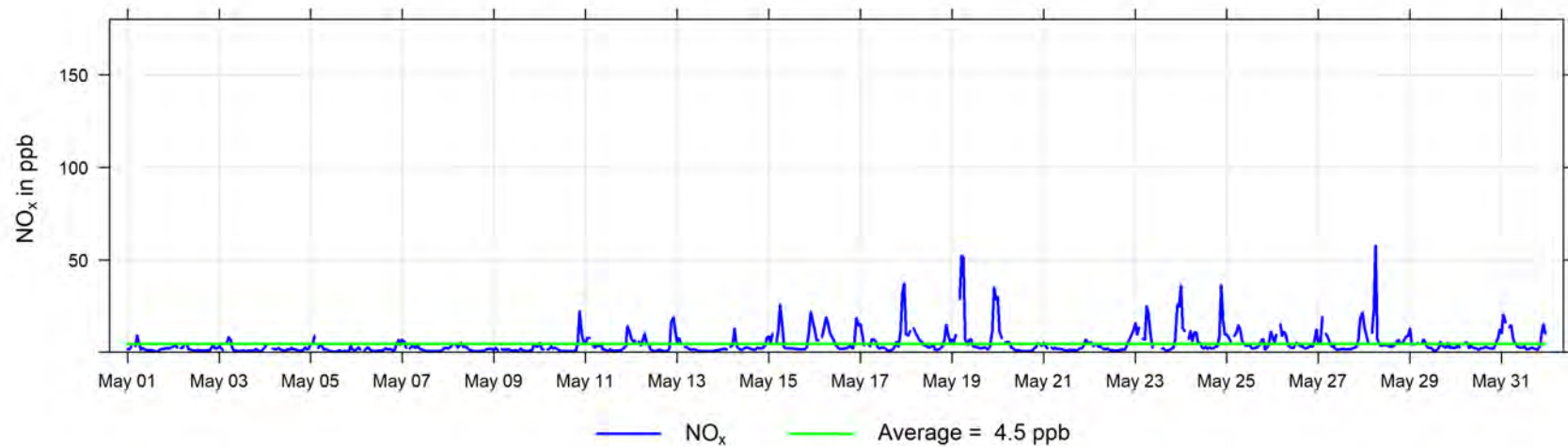
May 2025 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



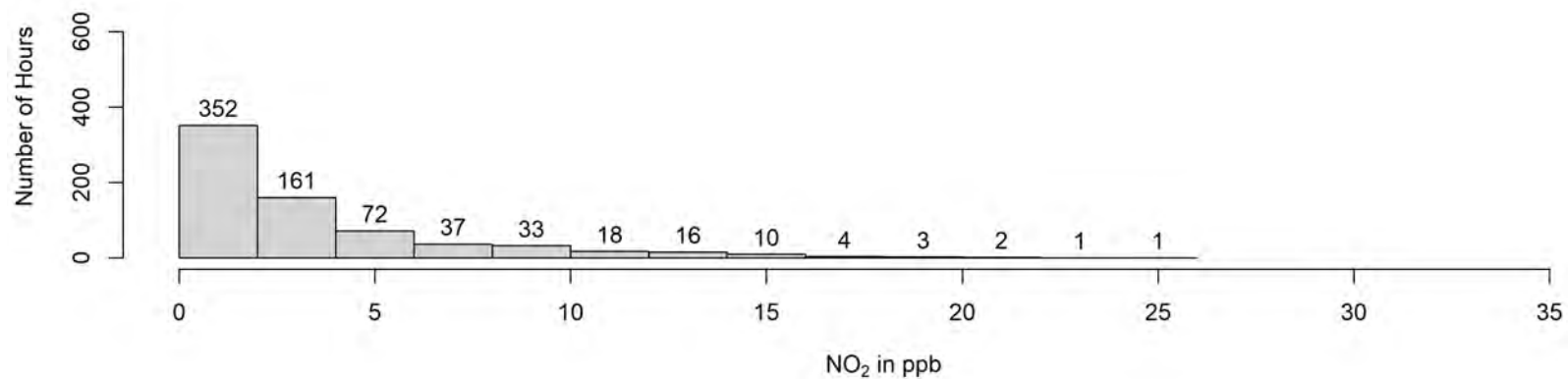
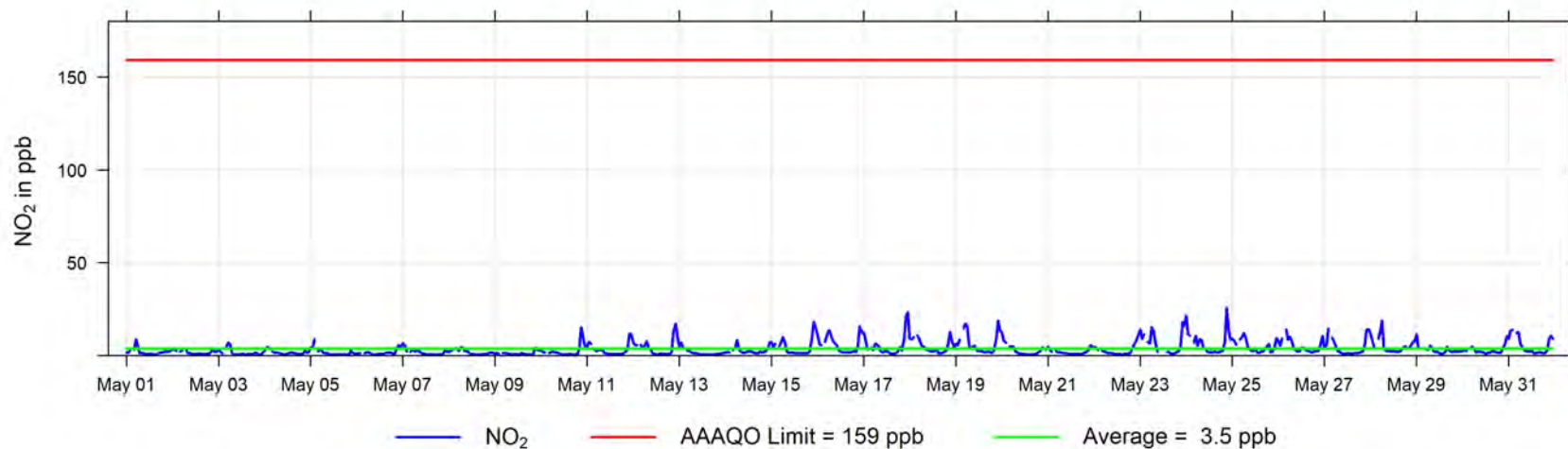
May 2025 Hourly Concentration Readings of NO (in ppb) at Happy Valley



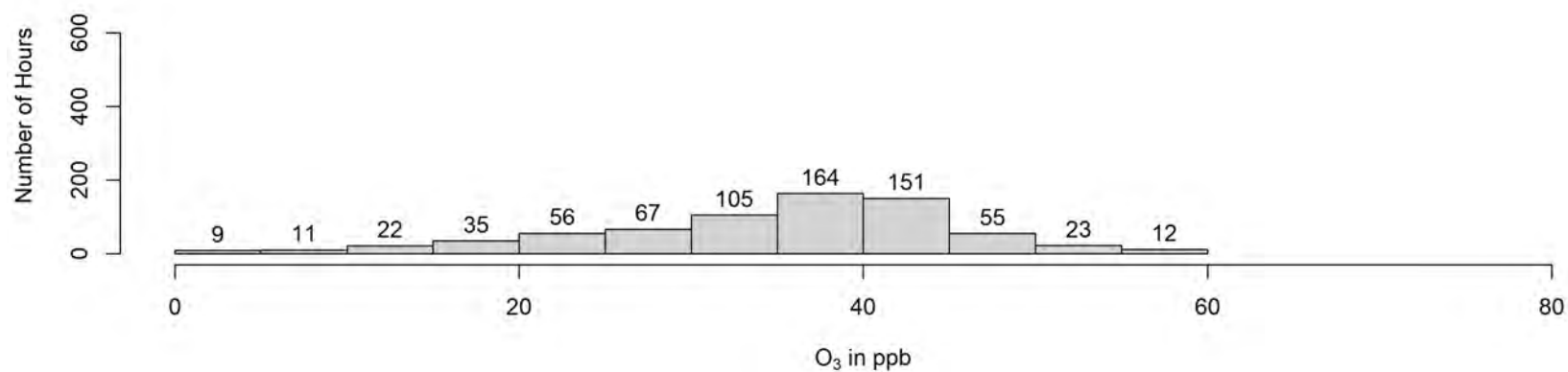
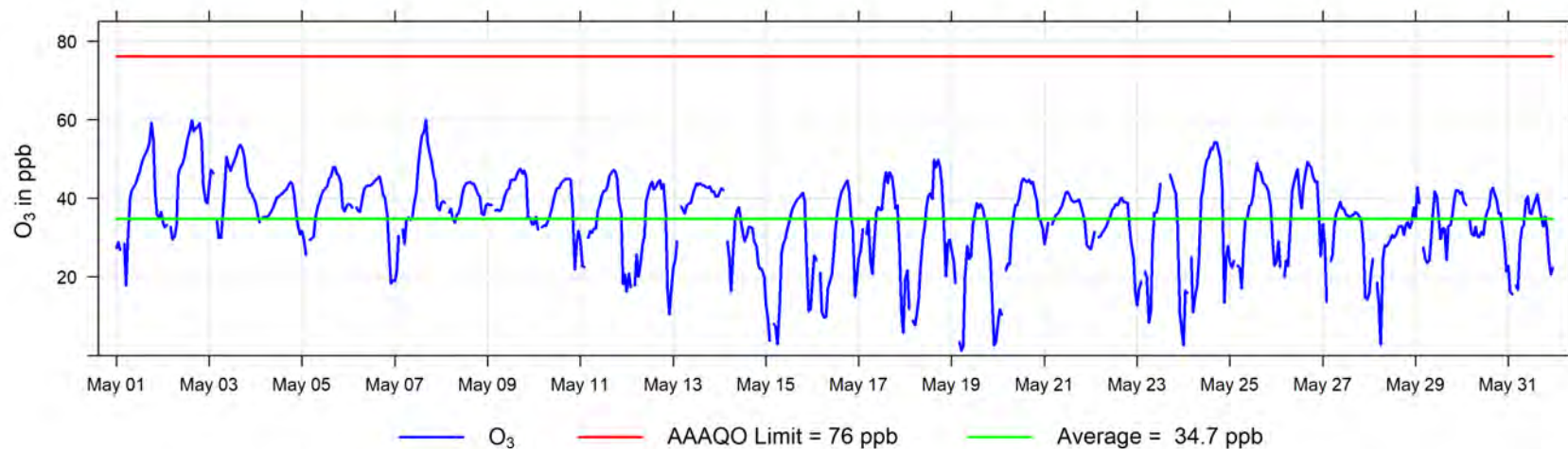
May 2025 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



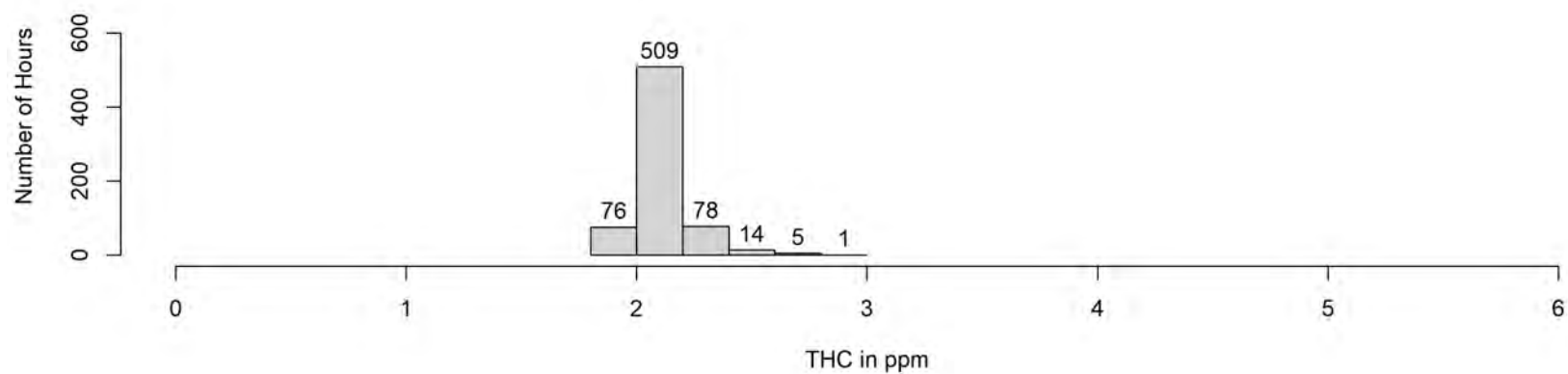
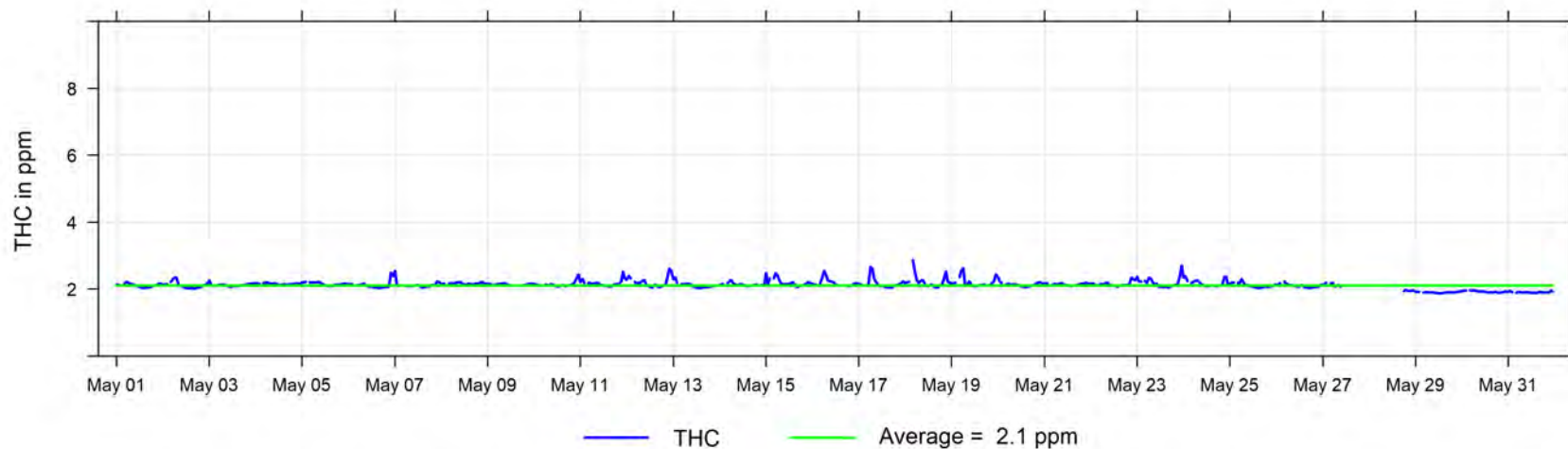
May 2025 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



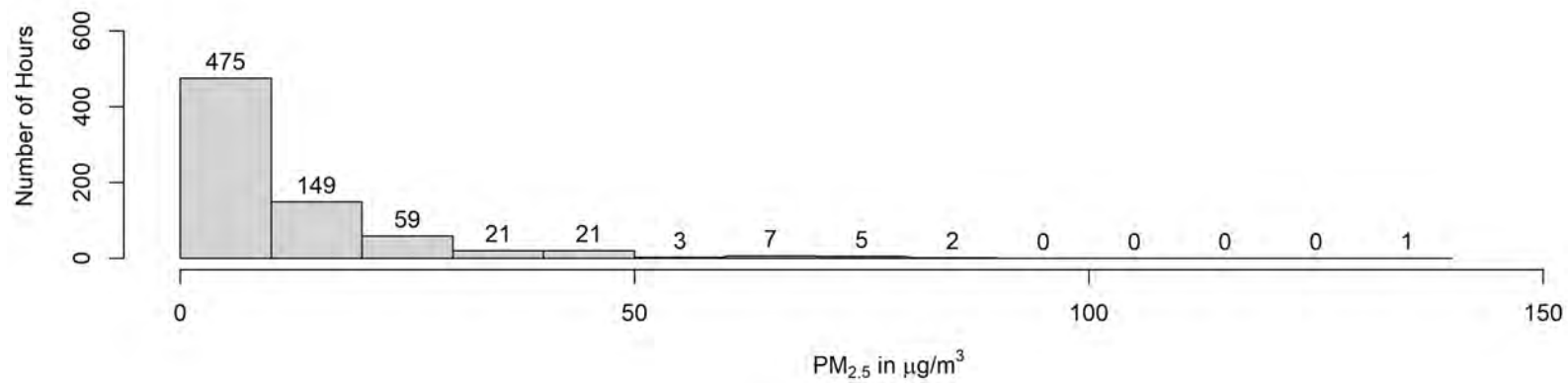
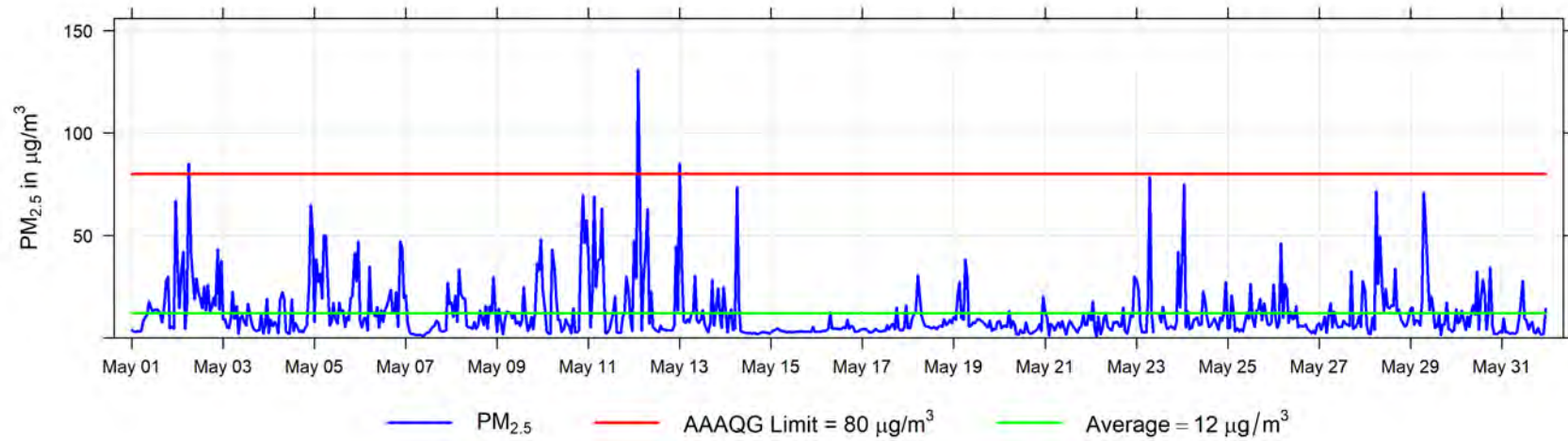
May 2025 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



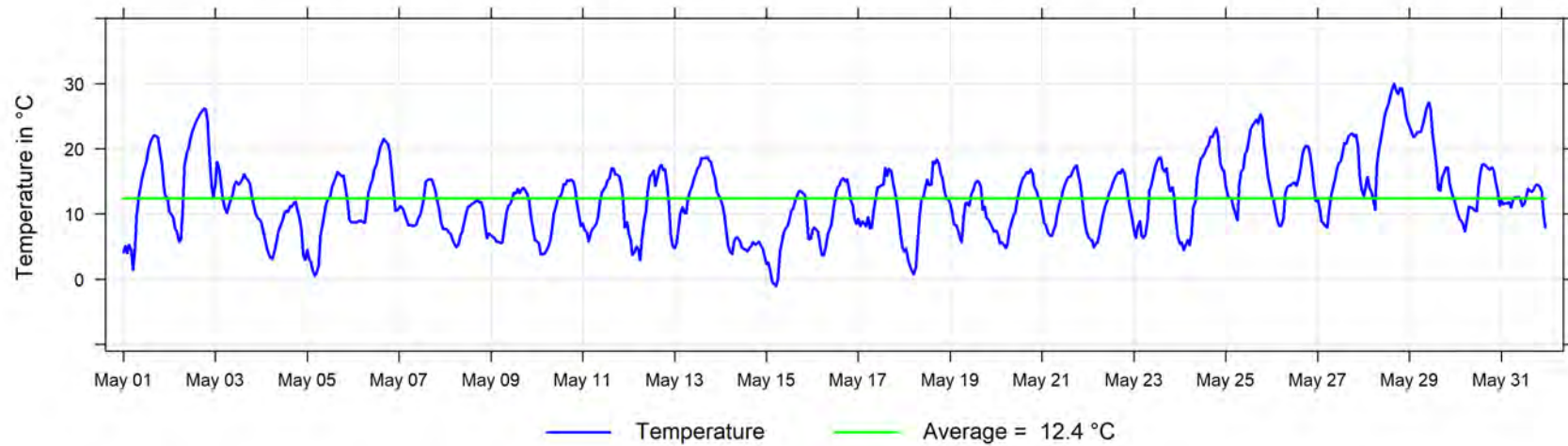
May 2025 Hourly Concentration Readings of THC (in ppm) at Happy Valley



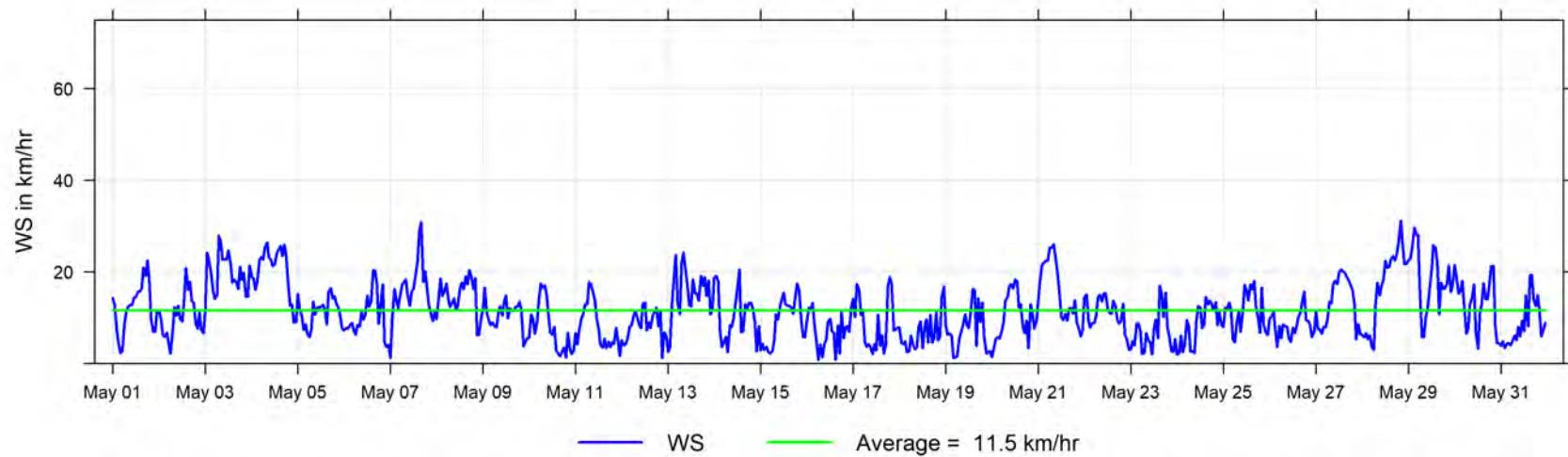
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



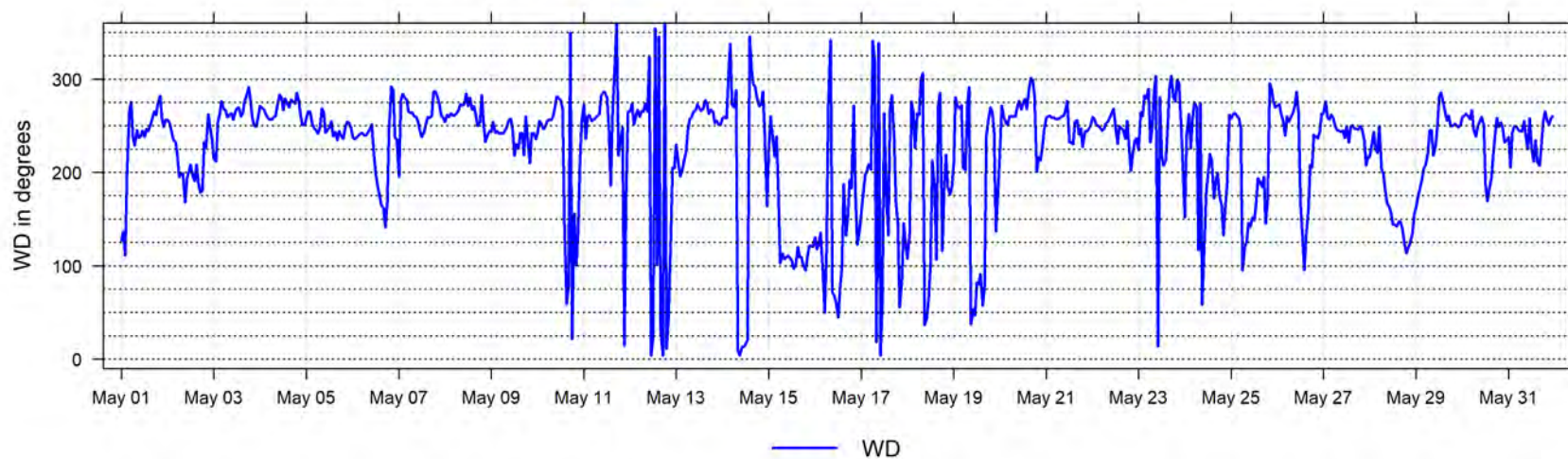
May 2025 Hourly Temperature Readings (in °C) at Happy Valley



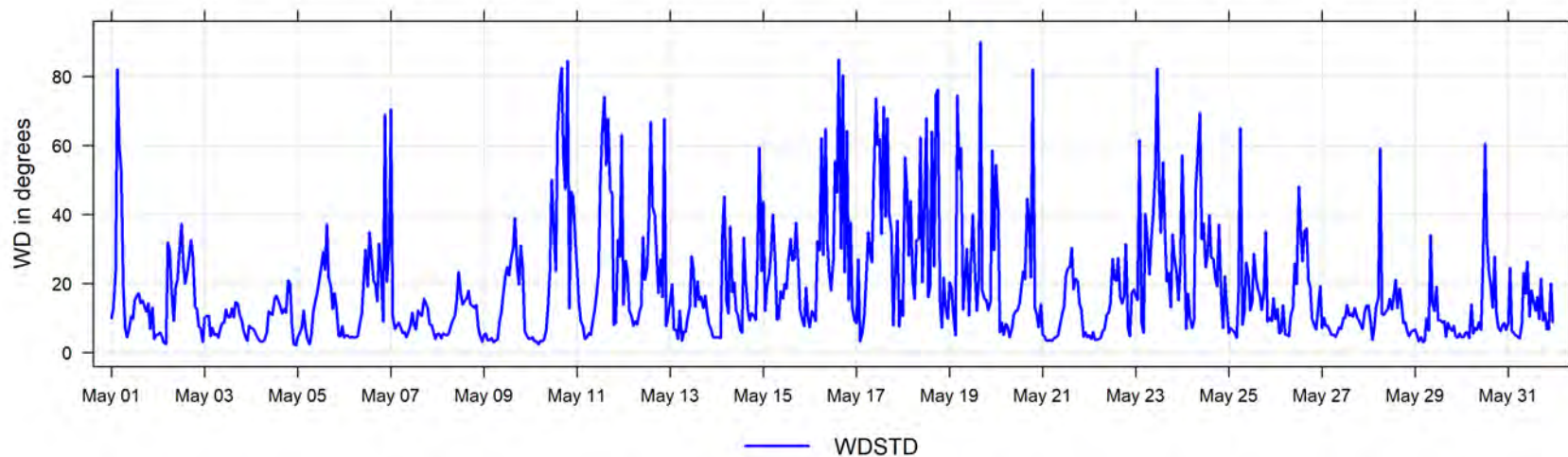
May 2025 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

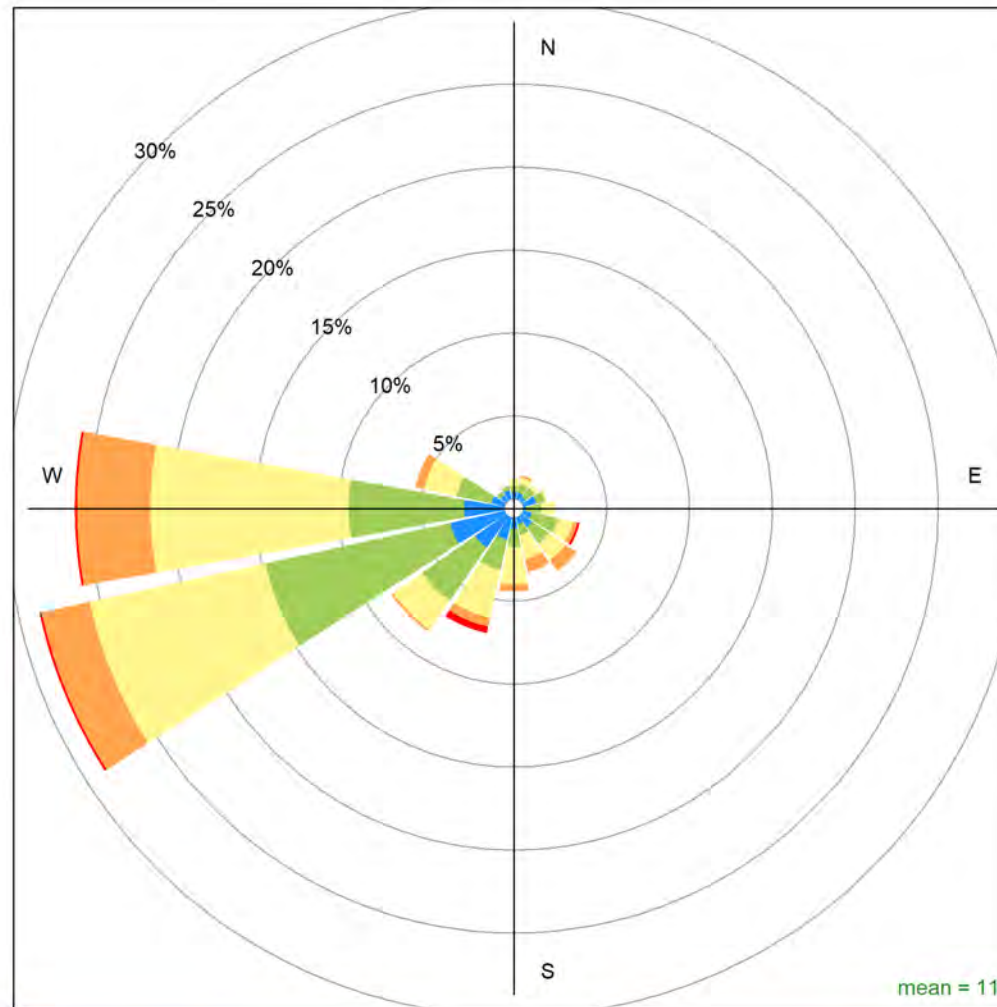


May 2025 Hourly Readings of Wind Direction (in degrees) at Happy Valley

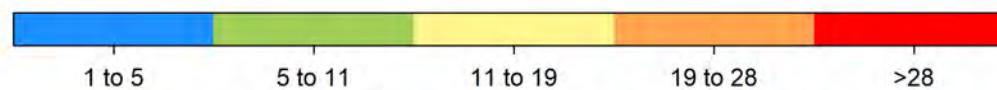


May 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Happy Valley





mean = 11

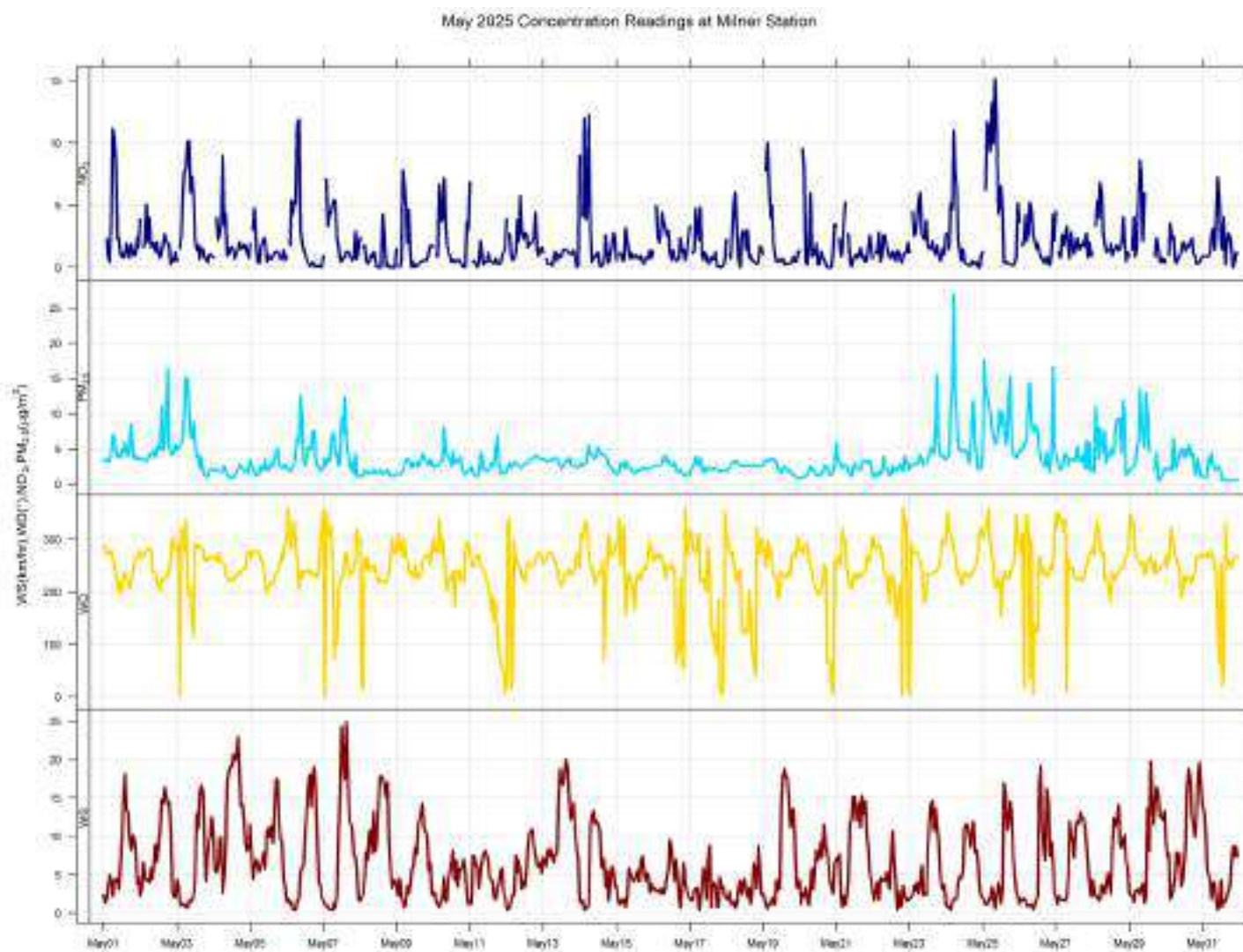


Happy Valley May 2025 Wind Rose, wind speed in km/hr

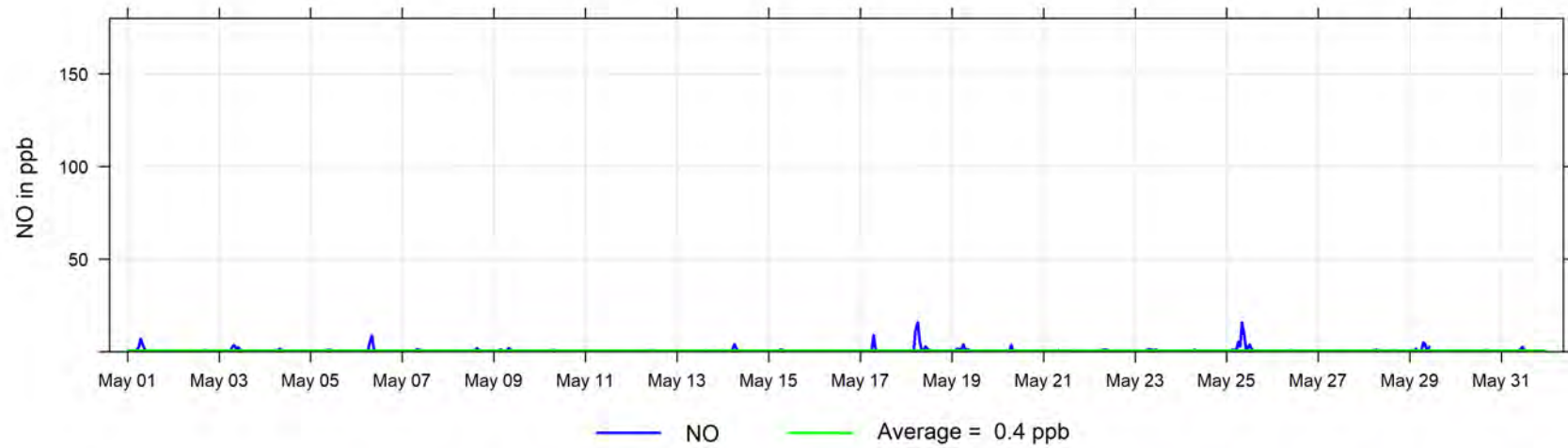
Calms (<1km/hr) = 0.3 %

9 Milner Charts

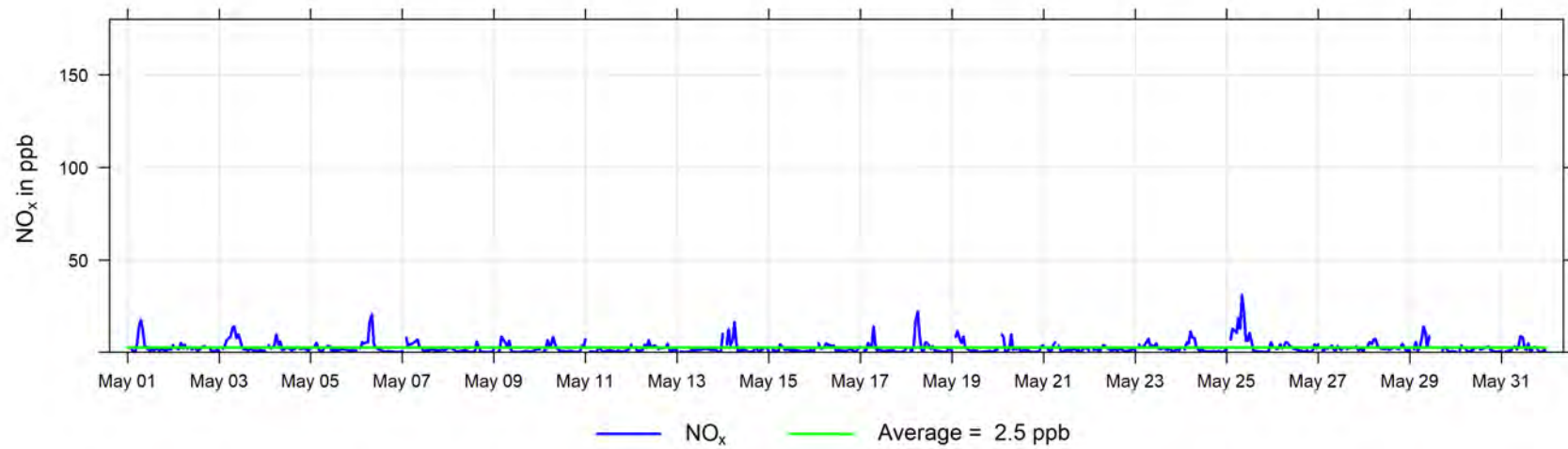
The following pages include the charts and histograms for Milner Station



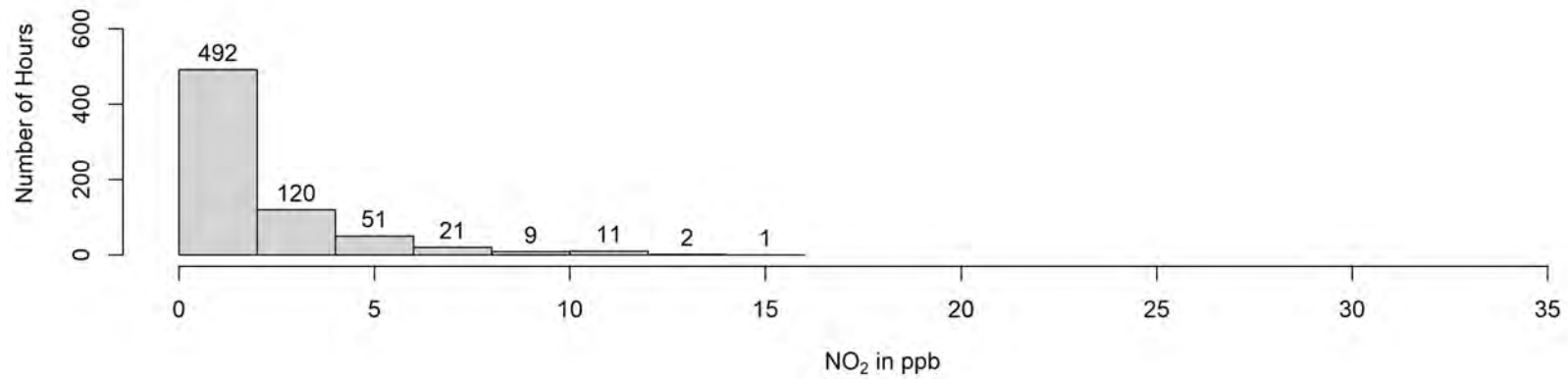
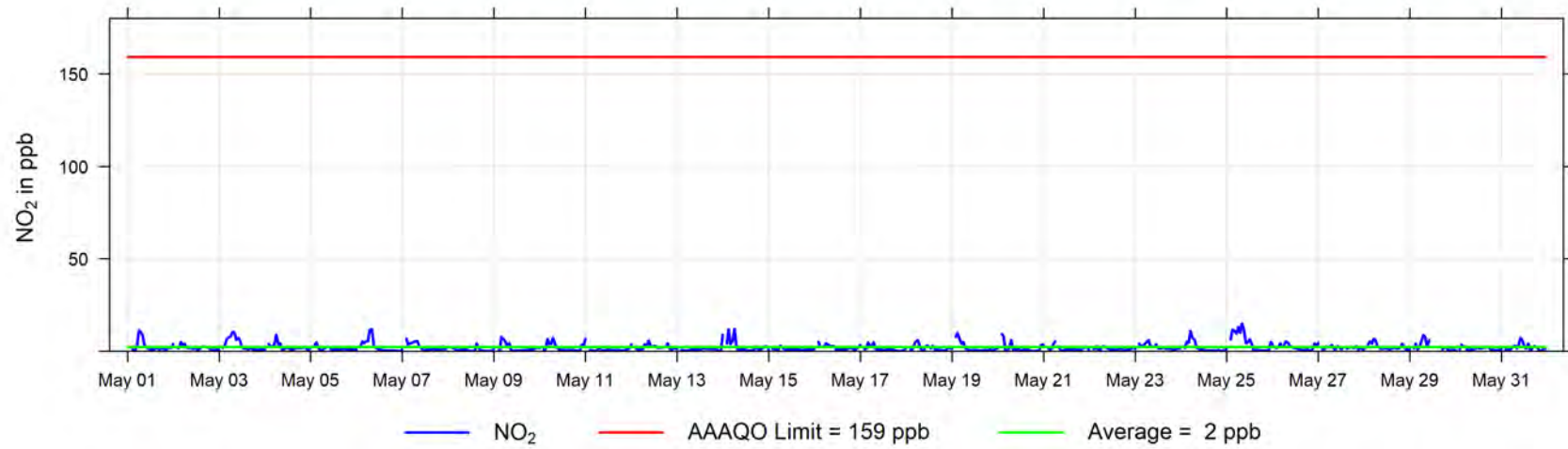
May 2025 Hourly Concentration Readings of NO (in ppb) at Milner



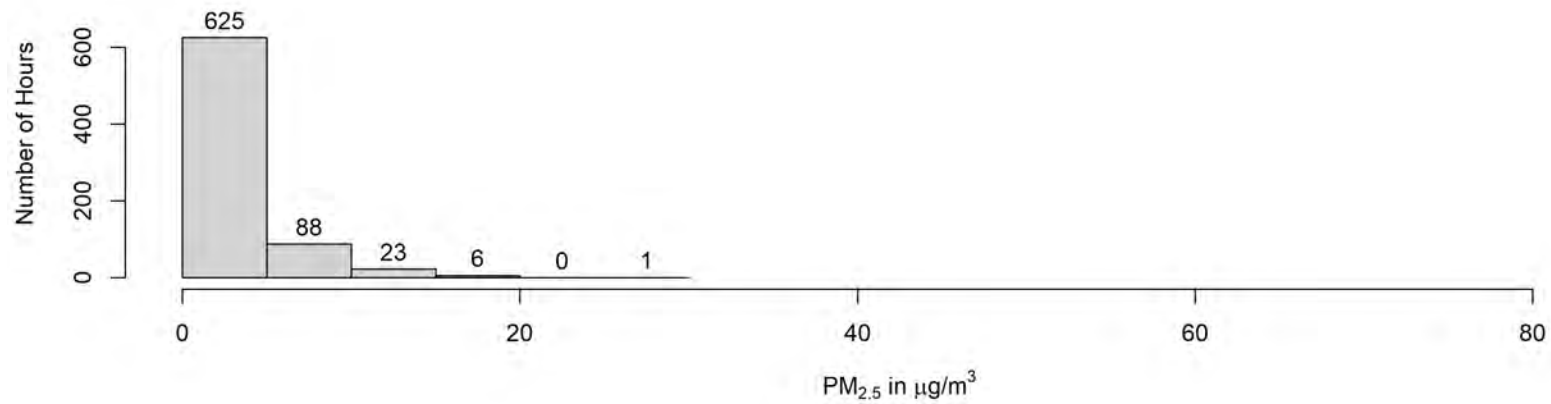
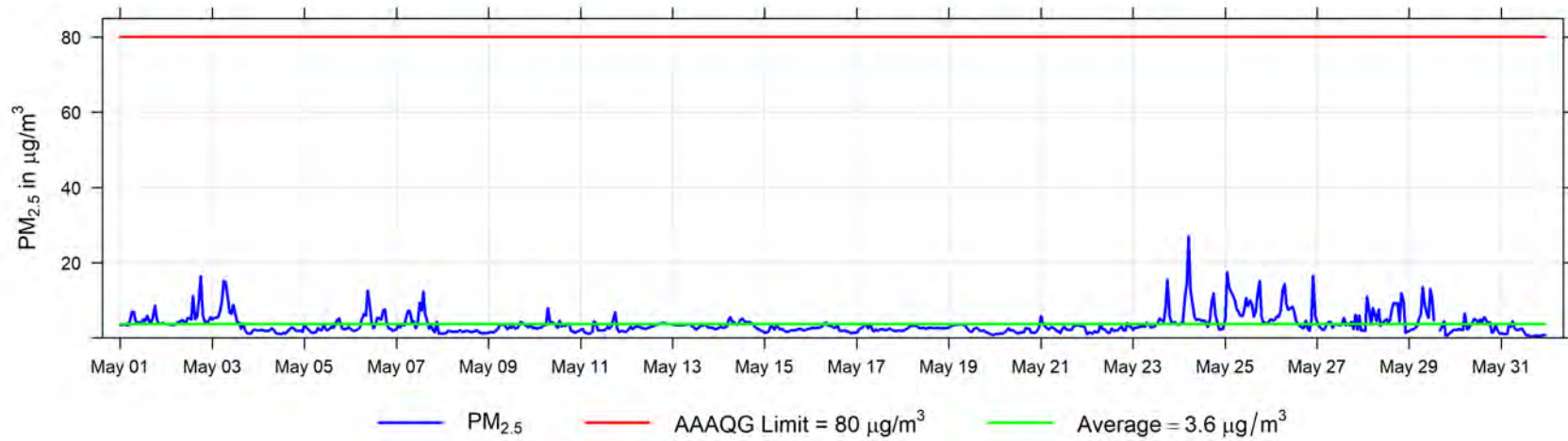
May 2025 Hourly Concentration Readings of NO_x (in ppb) at Milner



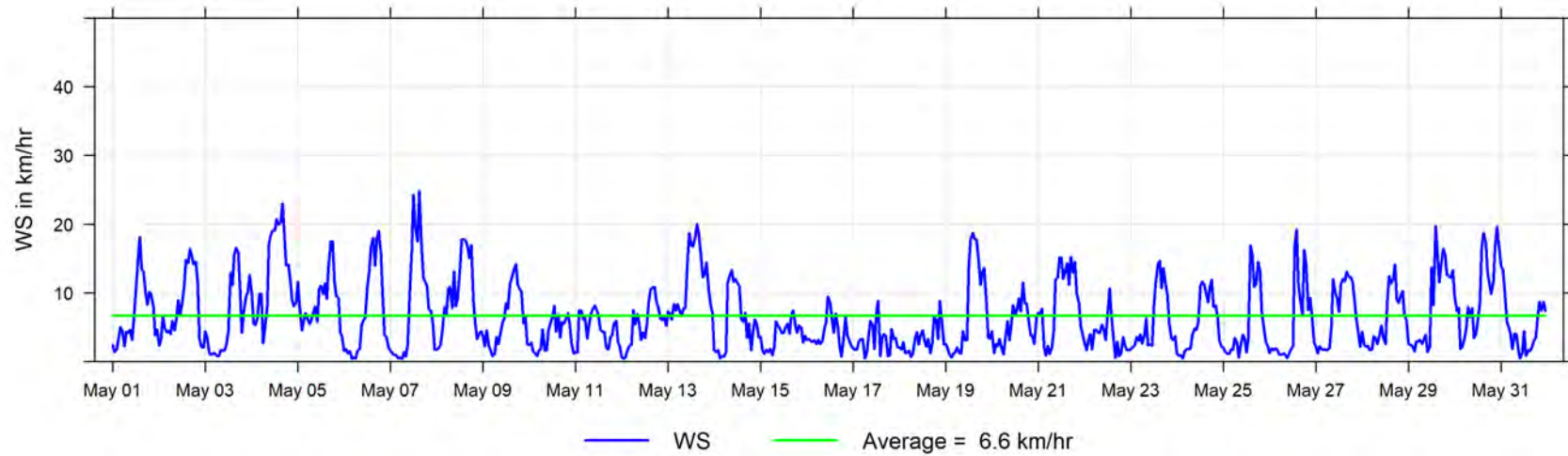
May 2025 Hourly Concentration Readings of NO₂ (in ppb) at Milner



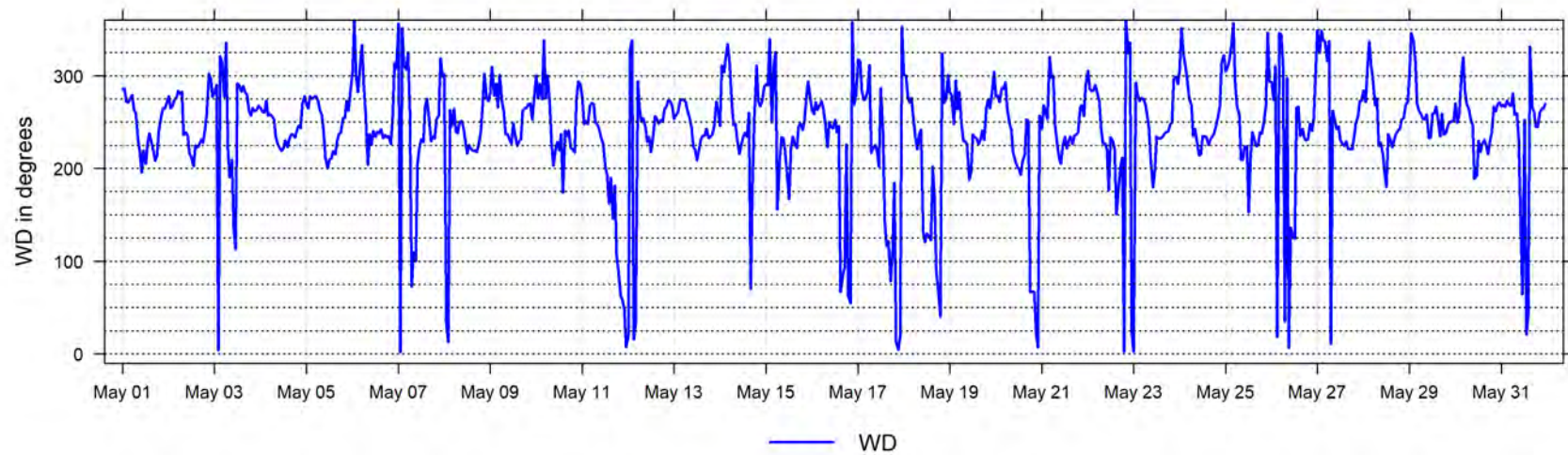
May 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



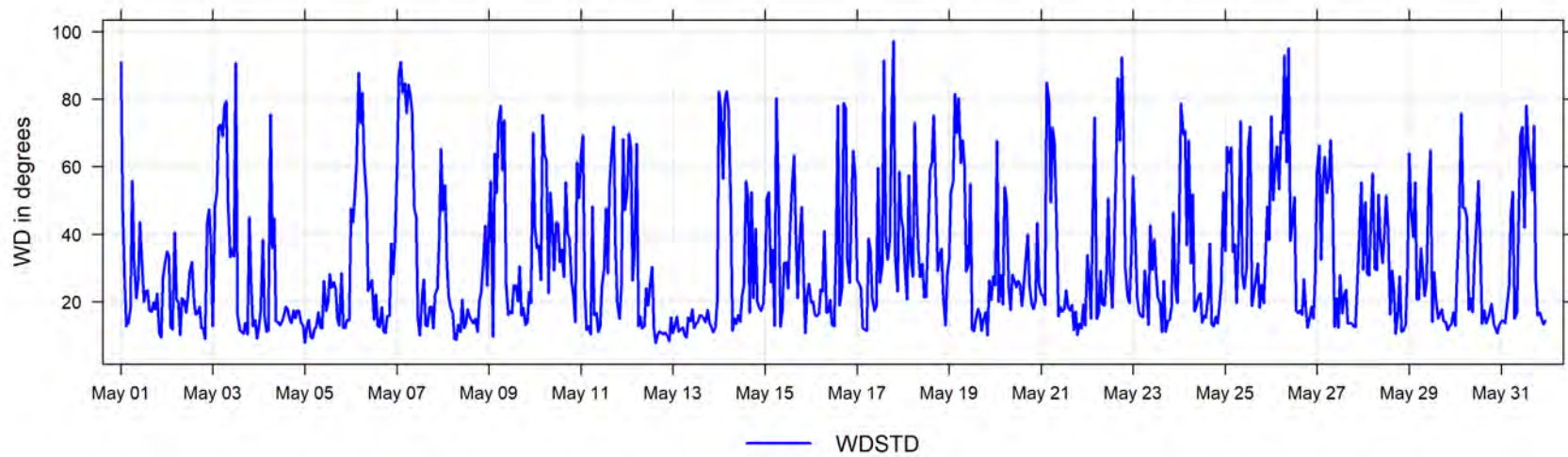
May 2025 Hourly Readings of Wind Speed (in km/hr) at Milner

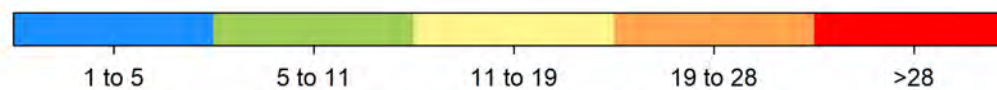
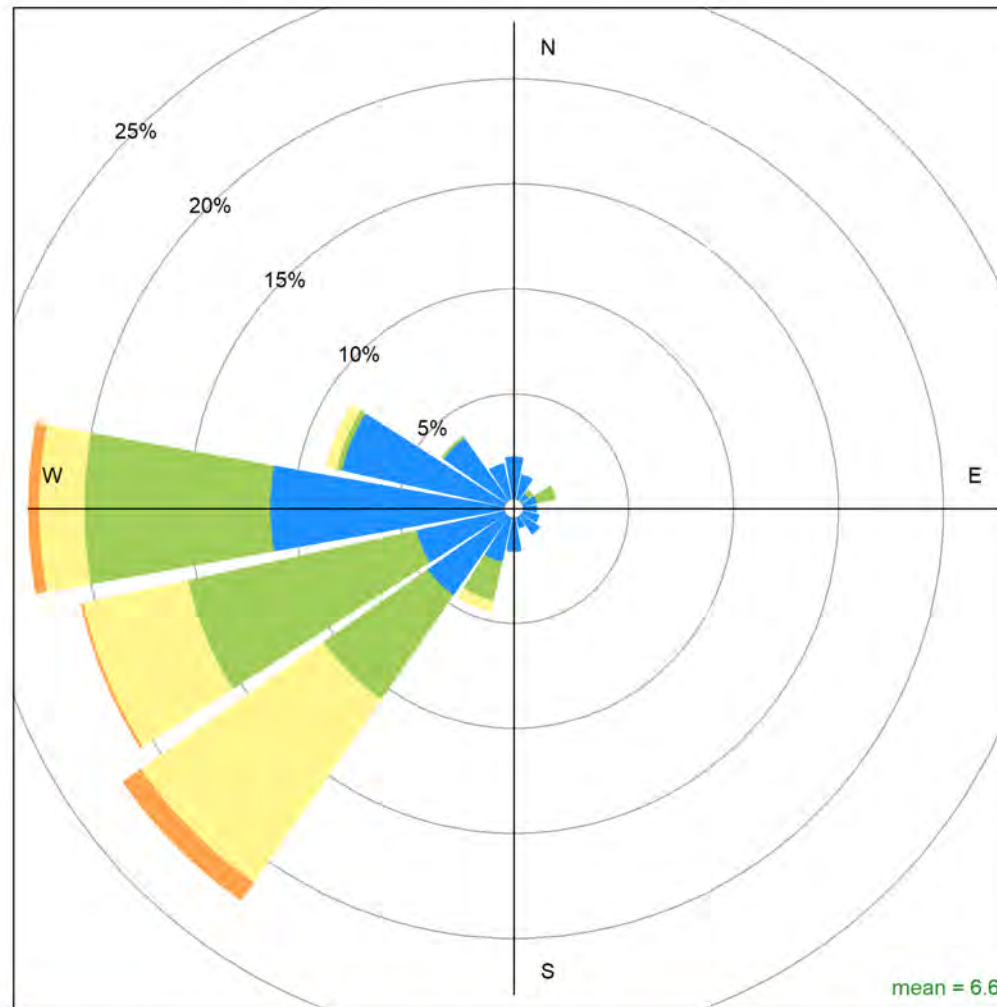


May 2025 Hourly Readings of Wind Direction (in degrees) at Milner



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

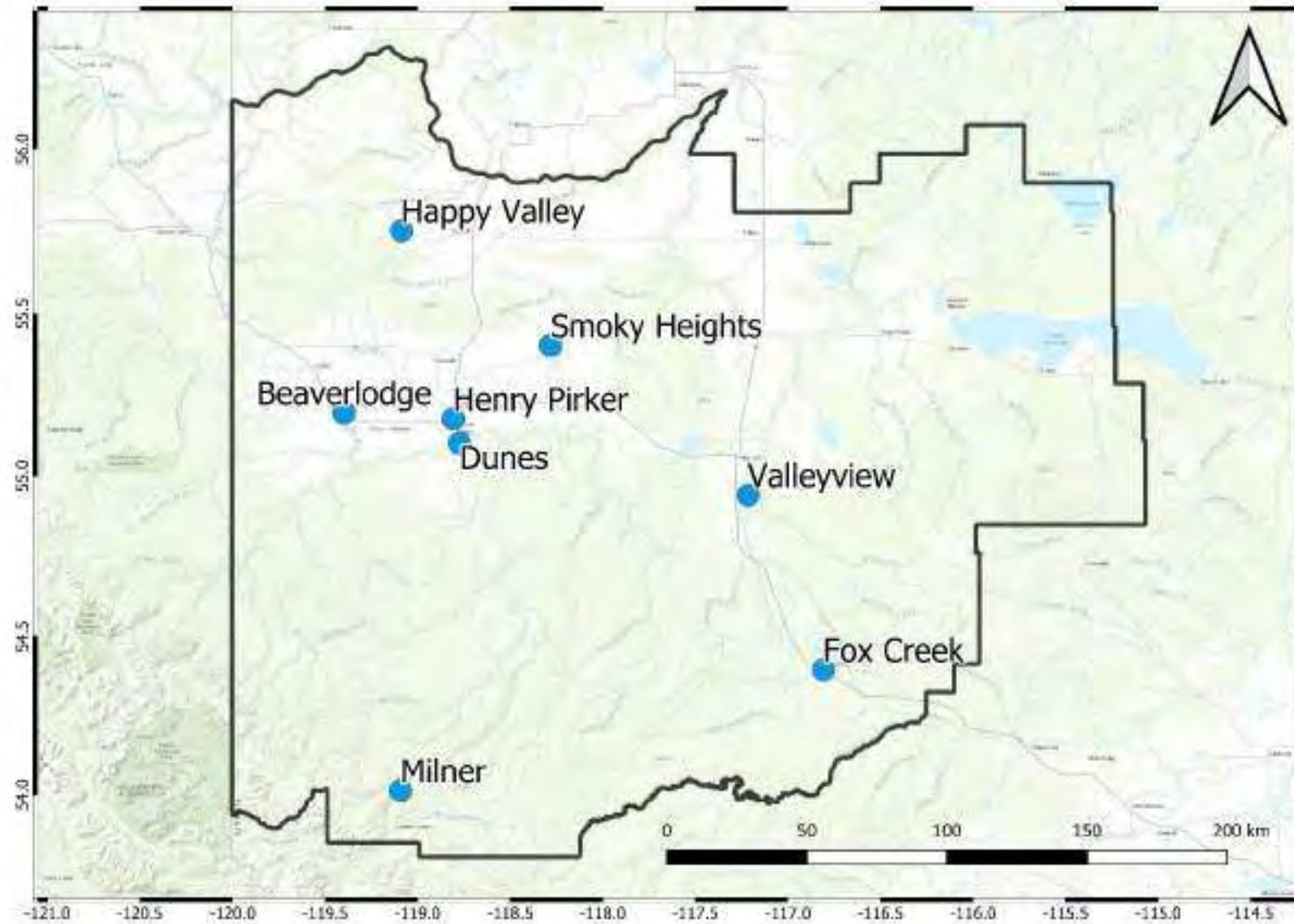




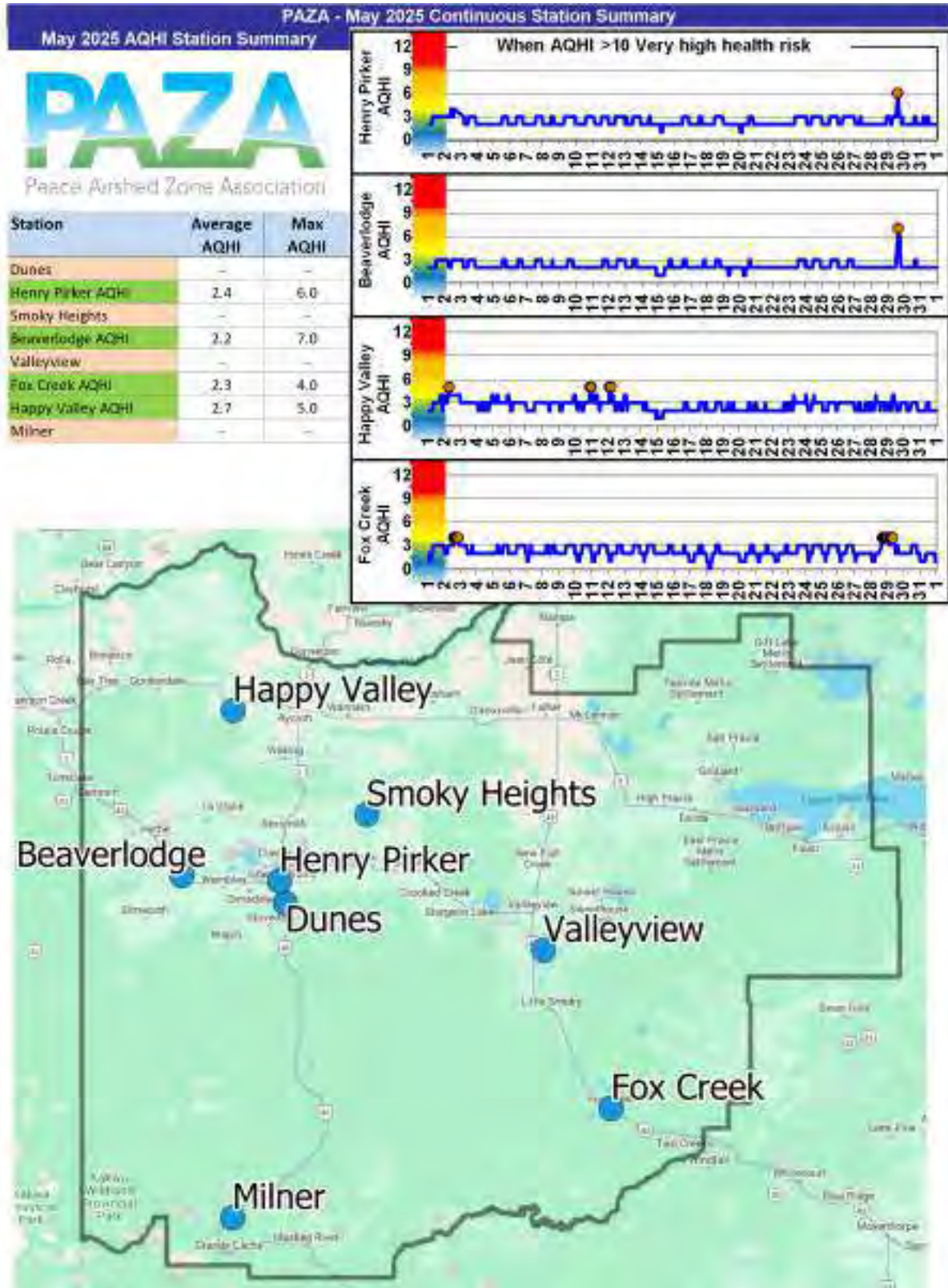
Milner May 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 5.4 %

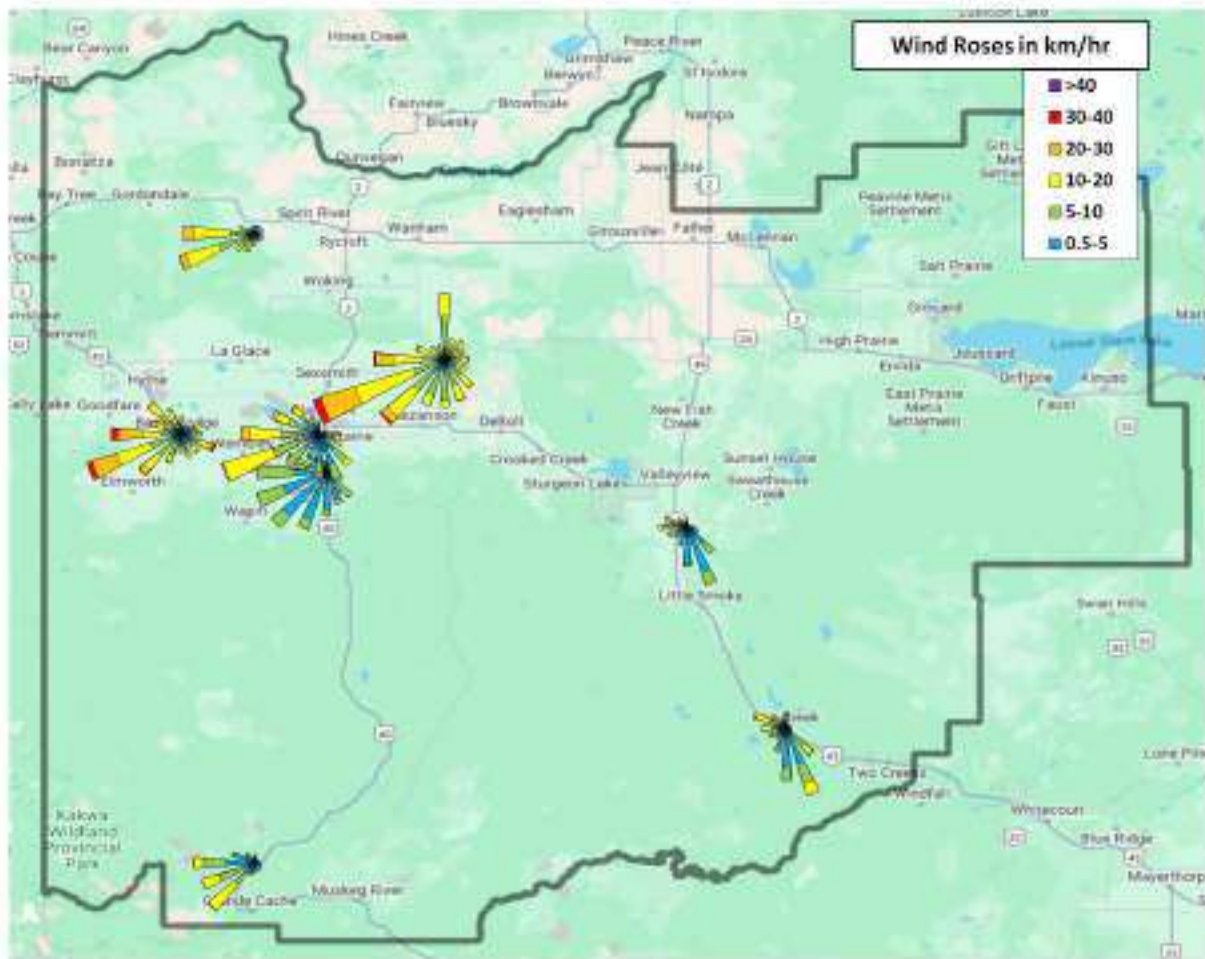
10 Concentration Summaries and Roses for PAZA



10.1 Air Quality Health Index (AQHI) Plots

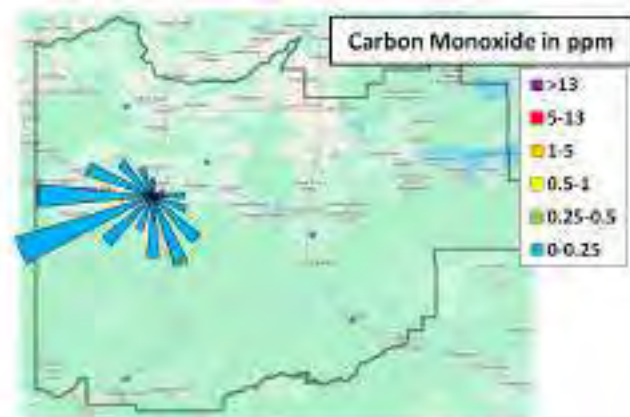
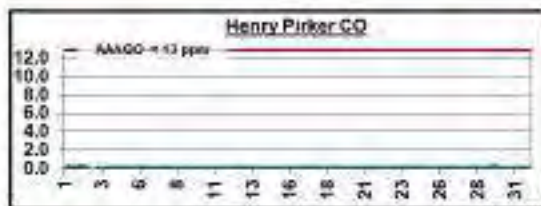


10.2 Wind Roses

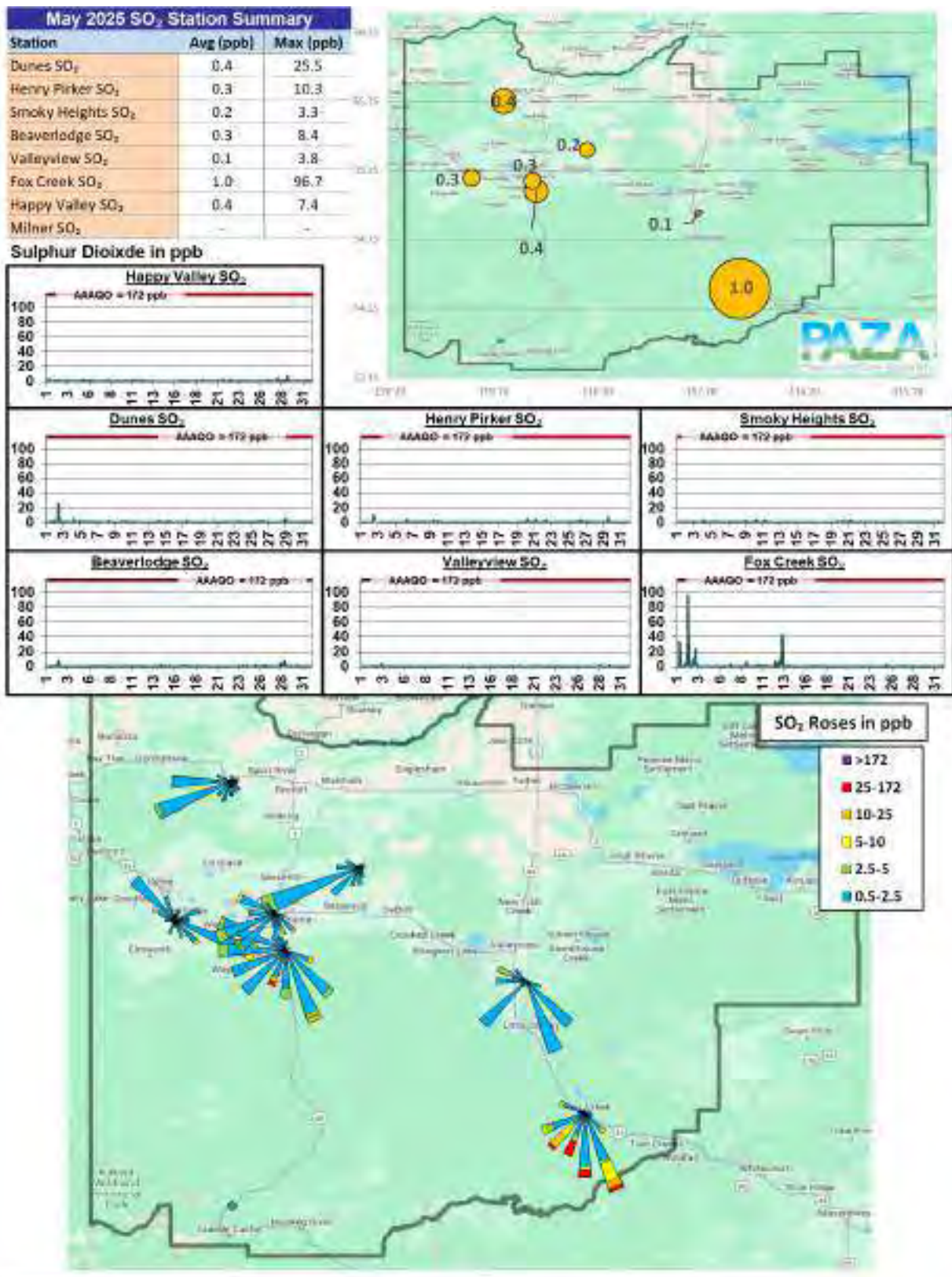


10.3 Carbon Monoxide (CO) Plots

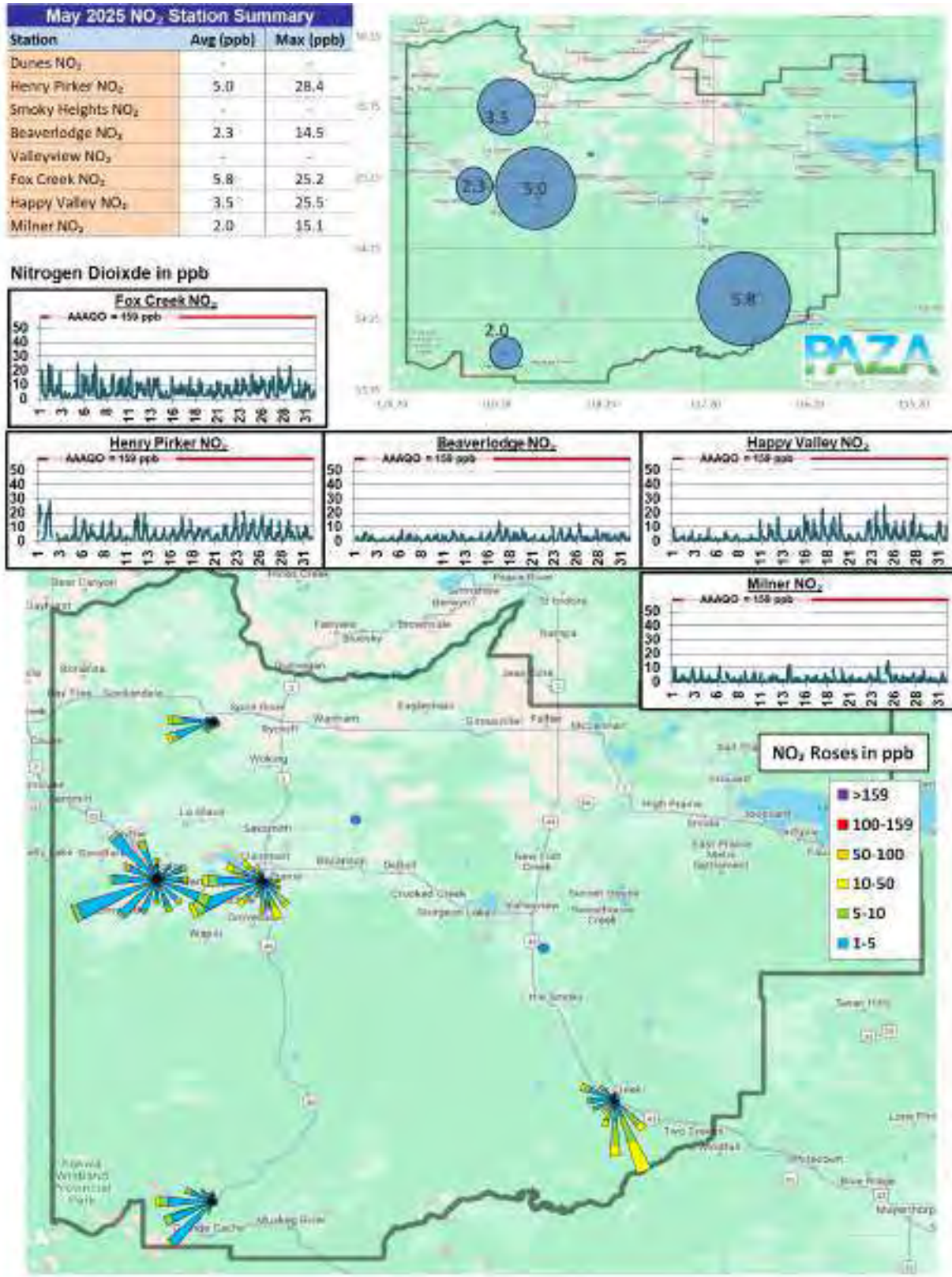
May 2025 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Parker CO	0.14	0.43



10.4 Sulphur Dioxide (SO₂) Plots



10.5 Nitrogen Dioxide (NO₂) Plots

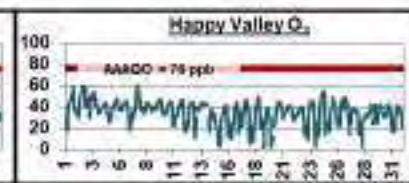
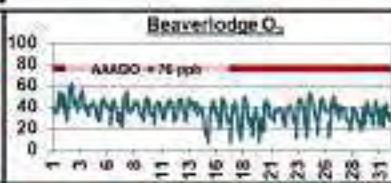
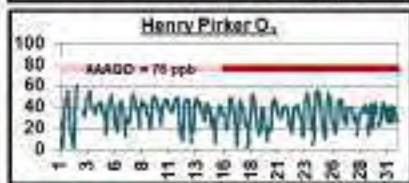
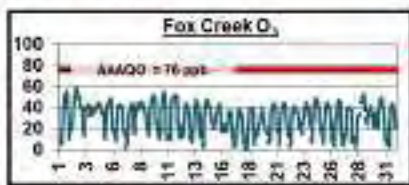


10.6 Ozone (O₃) Plots

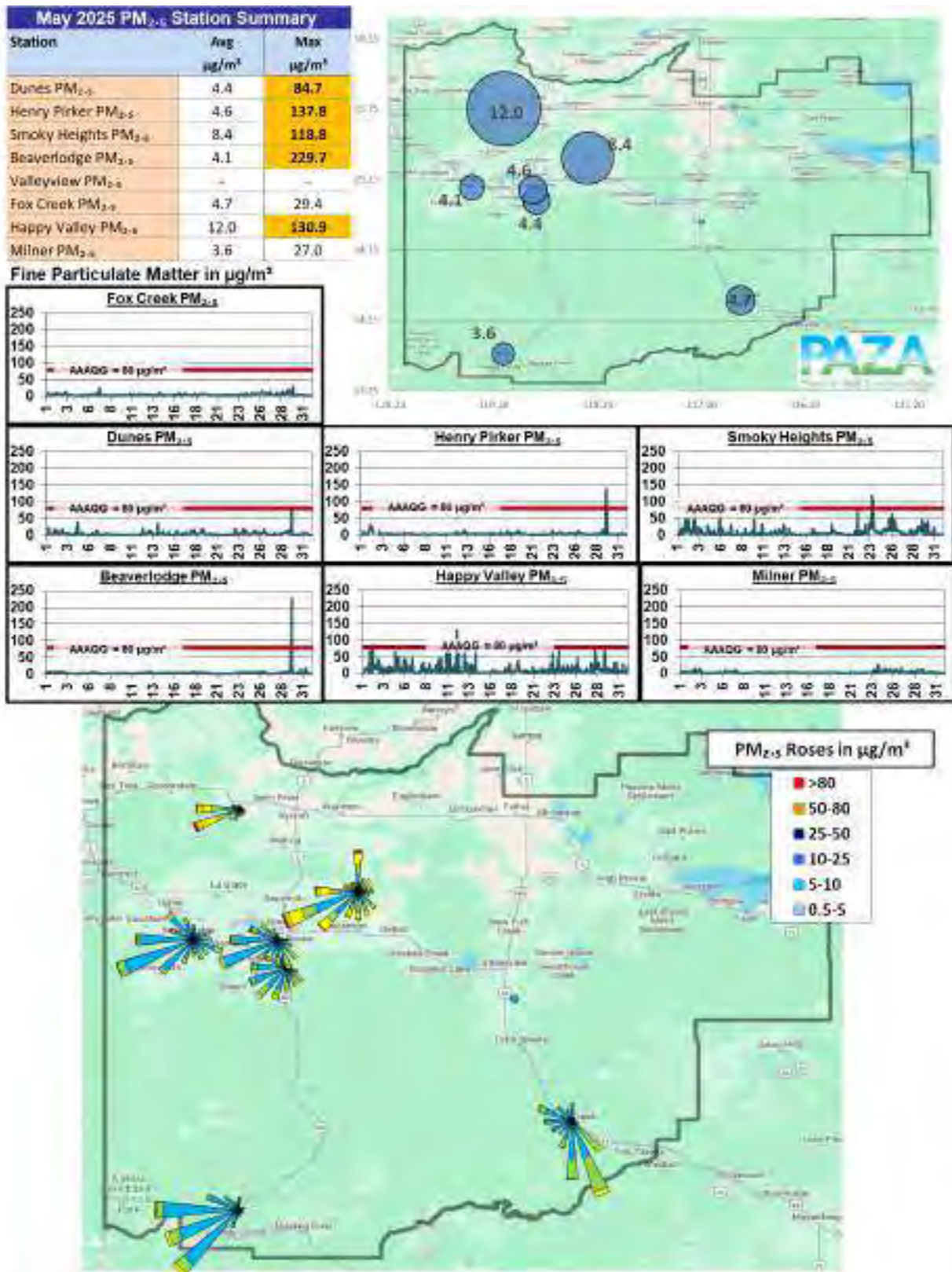
May 2025 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	34.1	60.4
Smoky Heights O ₃	-	-
Beaverlodge O ₃	36.2	62.3
Valleyview O ₃	-	-
Fox Creek O ₃	30.9	59.4
Happy Valley O ₃	34.7	60.0
Milner O ₃	-	-



Ozone in ppb

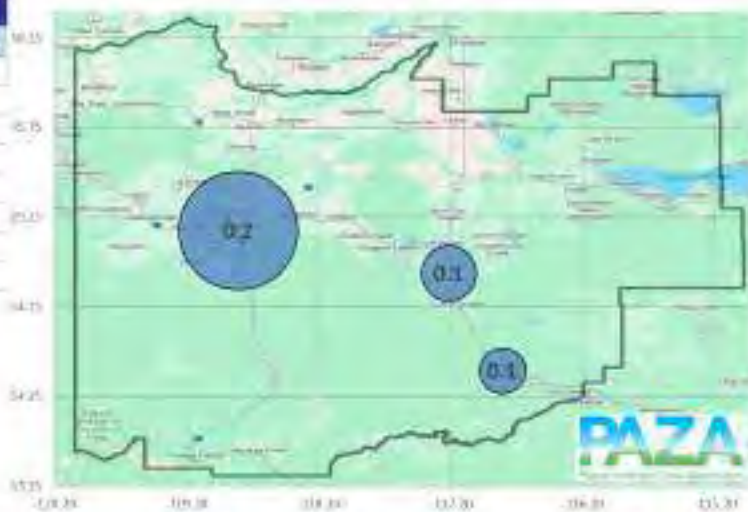


10.7 Fine Particulate Matter (PM_{2.5}) Plots

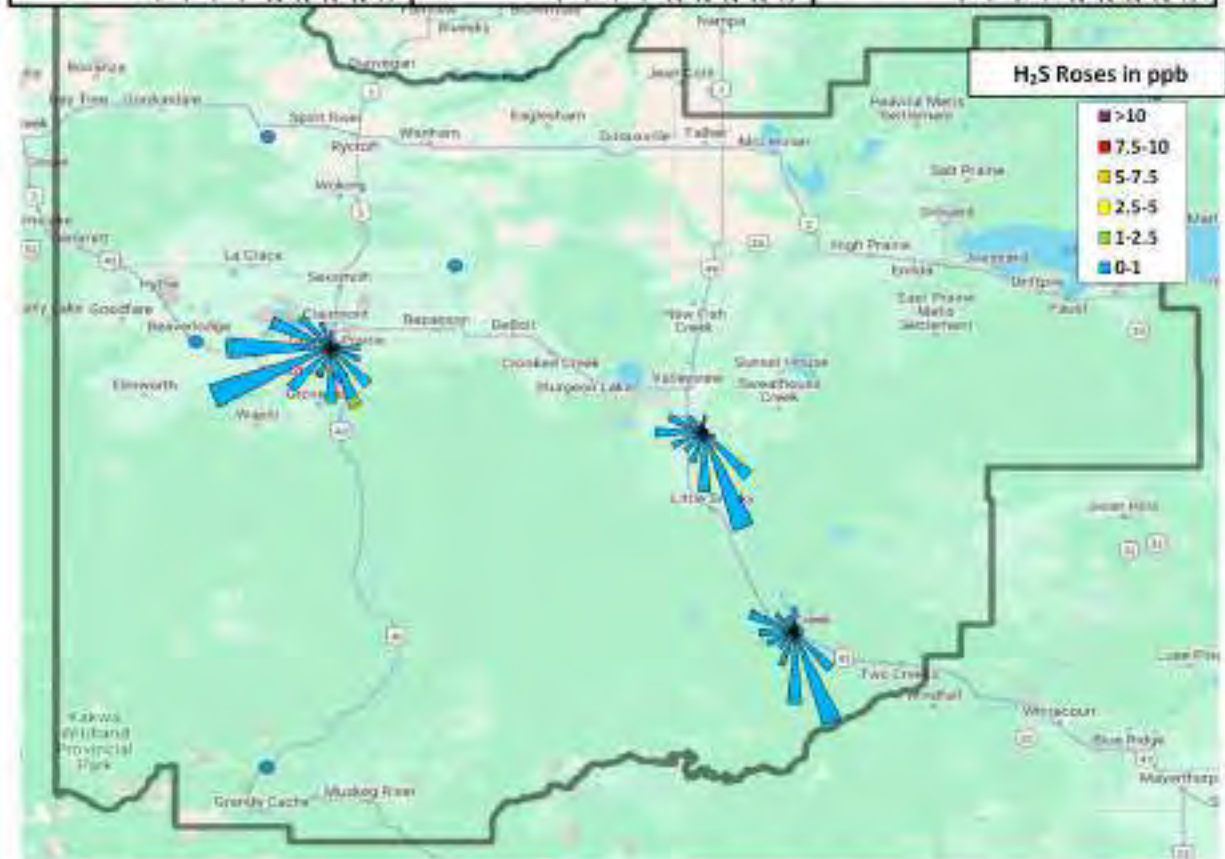


10.8 Hydrogen Sulphide (H₂S) Plots

May 2025 H ₂ S Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirkie H ₂ S	0.2	6.7
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.5
Fox Creek H ₂ S	0.1	1.1
Happy Valley H ₂ S	-	-
Milner H ₂ S	-	-

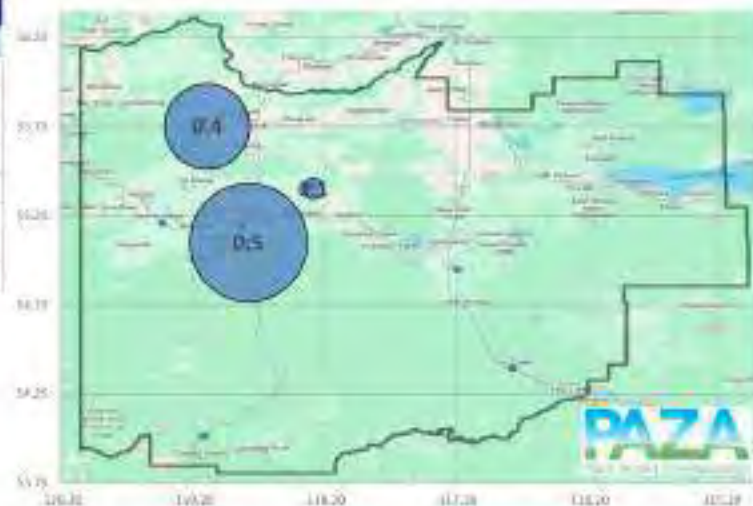


Hydrogen Sulphide in ppb

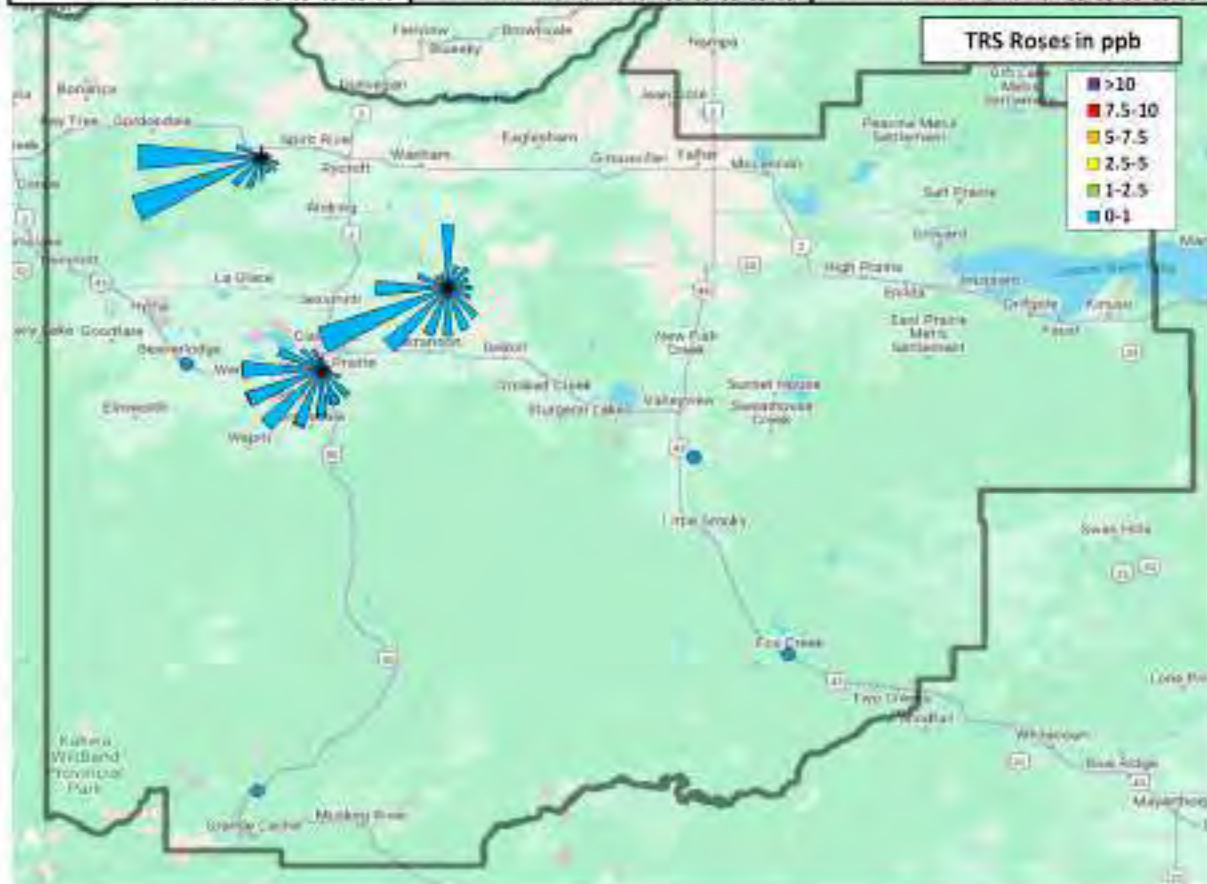
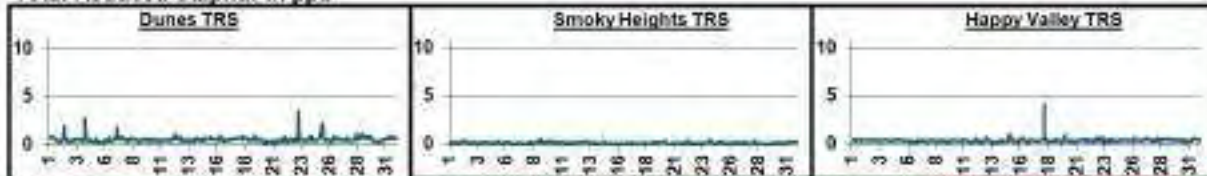


10.9 Total Reduced Sulphur (TRS) Plots

May 2025 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.5	3.4
Henry Piker TRS	-	-
Smoky Heights TRS	0.1	0.6
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Fox Creek TRS	-	-
Happy Valley TRS	0.4	4.1
Milner TRS	-	-



Total Reduced Sulphur in ppb

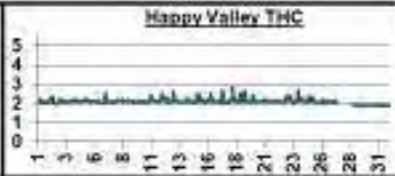
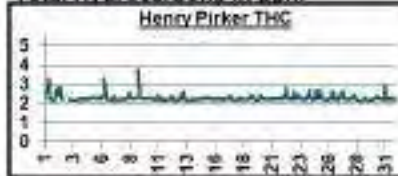


10.10 Total Hydrocarbon (THC) Plots

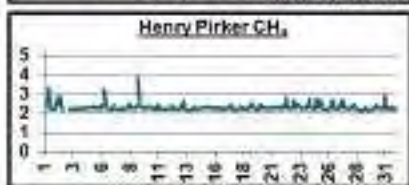
May 2025 THC Station Summary

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	3.8	2.3	3.8	0.00	0.16
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Fox Creek THC	-	-	-	-	-	-
Happy Valley THC	2.1	2.9	-	-	-	-

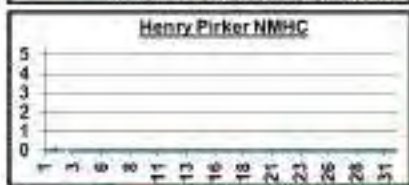
Total Hydrocarbons in ppm



Total Hydrocarbons (THC)



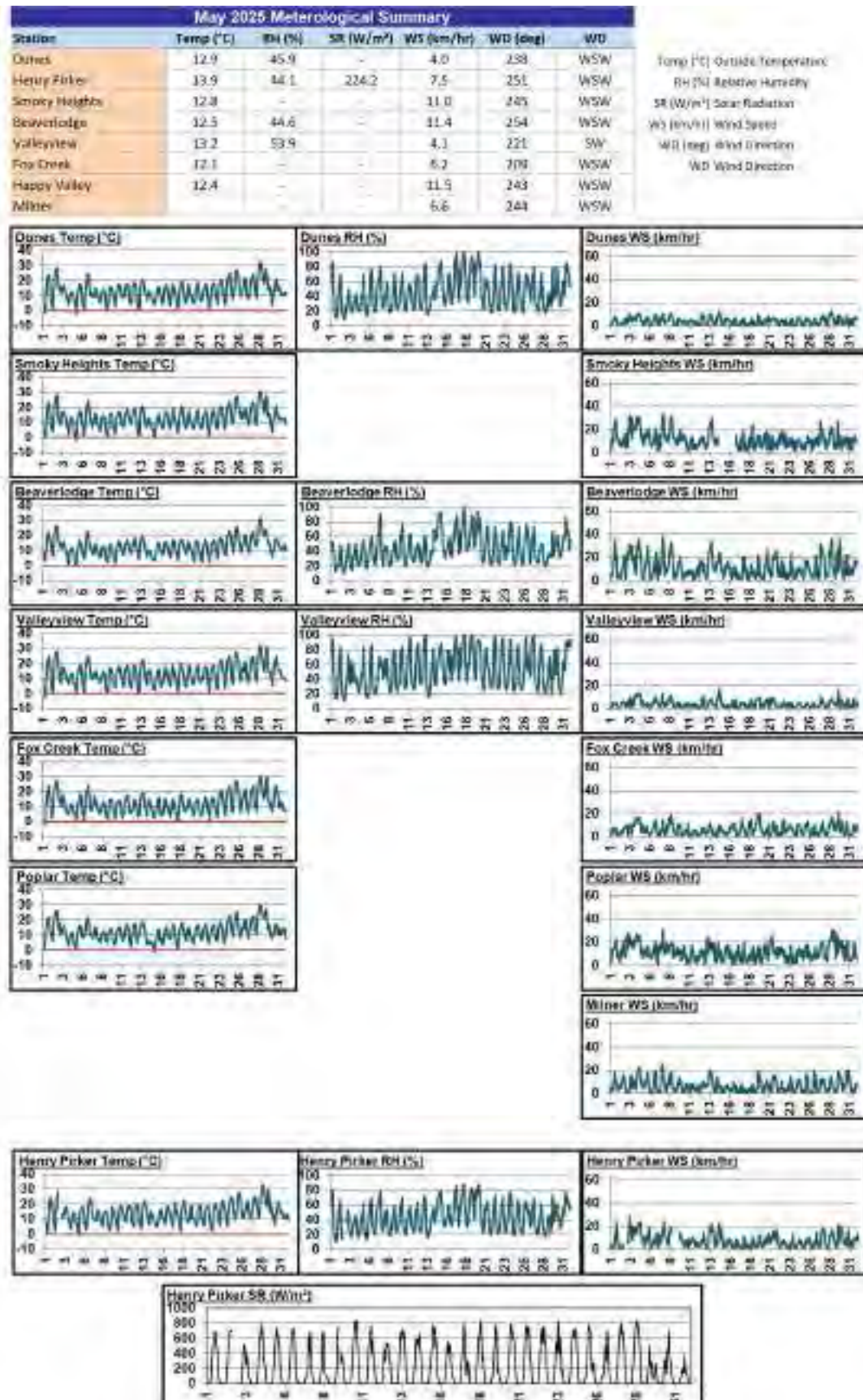
Methane (CH₄)



Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary



11 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for May 2025

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
3a	Forth Creek					04-13-082-07 W6M
3b	Forth Creek					
7a	Steeprock Creek	0.1				09-35-072-13 W6M
7b	Steeprock Creek	0.2				
12a	Hythe			1.5		14-36-072-11 W6M
12b	Hythe			1.6		
14a	Sylvester	0.1				08-06-069-12 W6M
14b	Sylvester	0.1				
17a	Poplar			1.8		13-06-073-08 W6M
17b	Poplar			1.8		
19a	Wanham			0.6		16-22-077-03 W6M
19b	Wanham			0.7		
37a	Crooked Creek		31.1			16-01-071-26 W5M
37b	Crooked Creek		34.7			
39a	Clouston Creek	0.2				12-01-073-22 W5M
39b	Clouston Creek	0.2				
44a	Peavine			0.4		03-05-079-15 W5M
44b	Peavine			0.4		
46a	Little Smoky	0.2				12-01-065-21 W5M
46b	Little Smoky	0.2				
D3a	Duvernay 3	0.5			0.10	04-33-062-20 W5M
D3b	Duvernay 3	0.5			0.04	
K1a	Kakwa 1			0.8		01-13-063-05 W6M
K1b	Kakwa 1			0.8		
K2a	Kakwa 2	2.3				08-13-063-05 W6M
K2b	Kakwa 2	2.8				
K3a	Kakwa 3				0.28	12-18-063-04 W6M
K3b	Kakwa 3				0.33	
M10a	Milner Powerline			2.4		06-14-058-08 W6M
M10b	Milner Powerline			2.2		
M9Ba	Milner Ambient Trailer	<0.1				09-15-058-08 W6M
M9Bb	Milner Ambient Trailer	0.1				
J4Da	Jayar4 7-8 or 8-8 Pad			0.9		10-08-062-03 W6M
J4Db	Jayar4 7-8 or 8-8 Pad			0.9		
J3Da	Jayar3 Bone Yard	1.0				14-08-062-03 W6M
J3Db	Jayar3 Bone Yard	0.9				
J5Da	Jayar5 Camp				0.26	11-08-062-03 W6M
J5Db	Jayar5 Camp				0.26	

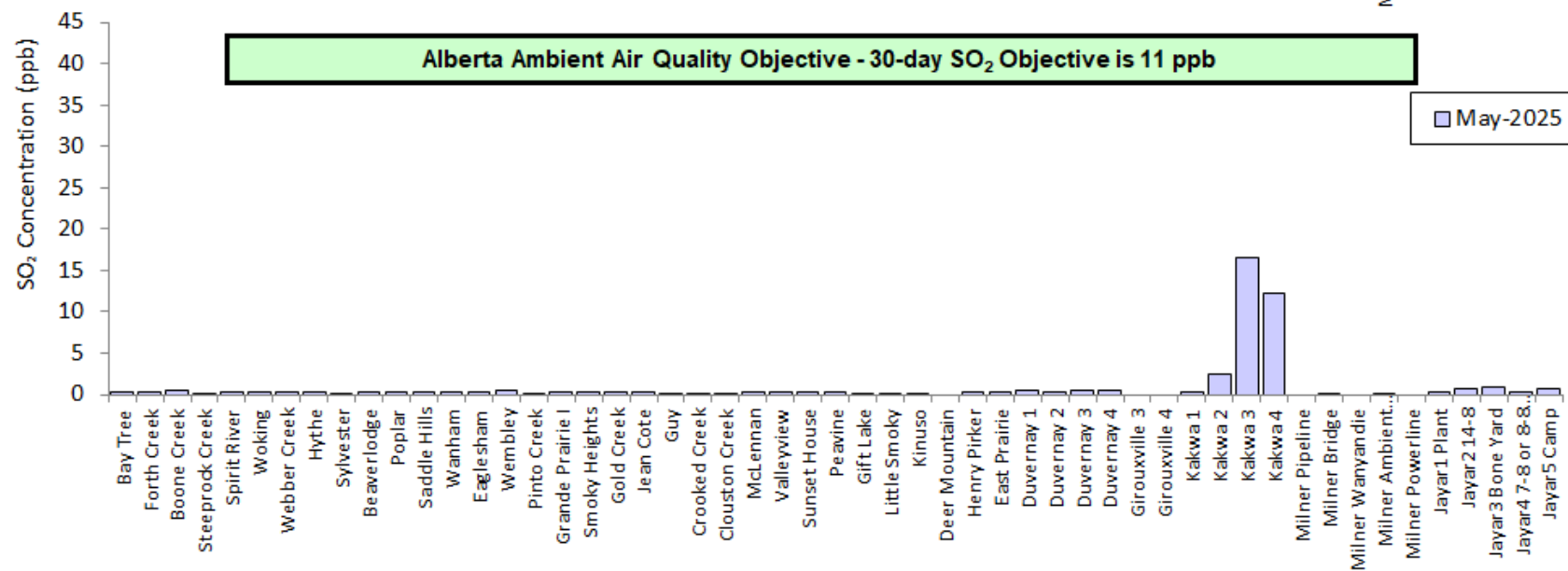
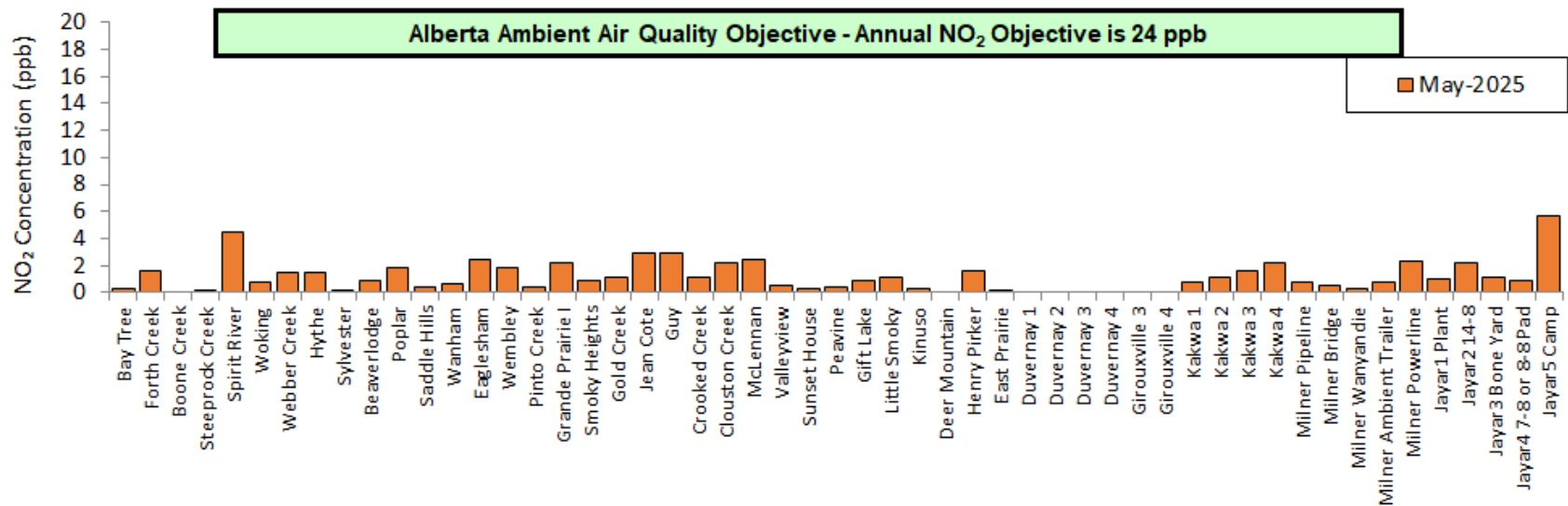
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
1	Silver Valley	0.4	-	0.8	-	08-27-081-11 W6M
2	Bay Tree	0.2	31.9	0.2	-	13-16-078-13 W6M
3	Forth Creek	0.2	-	1.6	-	04-13-082-07 W6M
5	Boone Creek	0.5	-	Sample missing	-	01-23-076-11 W6M
7	Steeprock Creek	0.2	-	0.2	-	09-35-072-13 W6M
9	Spirit River	0.4	-	4.5	-	08-12-079-07 W6M
10	Woking	0.3	-	0.8	-	01-13-076-07 W6M
11	Webber Creek	0.3	-	1.5	-	09-36-074-09 W6M
12	Hythe	0.3	-	1.5	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.1	-	08-06-069-12 W6M
16	Beaverlodge	0.3	-	0.9	-	15-36-071-10 W6M
17	Poplar	0.3	-	1.8	-	13-06-073-08 W6M
18	Saddle Hills	0.4	-	0.4	-	04-25-074-07 W6M
19	Wanham	0.3	-	0.6	-	16-22-077-03 W6M
21	Eaglesham	0.3	-	2.4	-	16-21-079-25 W5M
24	Wembley	0.4	-	1.8	-	12-31-070-08 W6M
25	Pinto Creek	0.2	-	0.3	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	2.2	-	08-15-071-06 W6M
29	Smoky Heights	0.3	-	0.9	-	04-06-075-02 W6M
32	Gold Creek	0.3	-	1.2	-	06-33-067-05 W6M
35	Jean Cote	0.2	-	2.9	-	12-35-079-21 W5M
36	Guy	0.2	-	2.9	0.1	03-04-076-22 W5M
37	Crooked Creek	0.2	32.9	1.1	-	16-01-071-26 W5M
39	Clouston Creek	0.2	-	2.2	-	12-01-073-22 W5M
40	McLennan	0.2	-	2.5	-	03-29-077-19 W5M
41	Valleyview	0.3	-	0.5	-	09-30-069-22 W5M
42	Sunset House	0.2	-	0.3	-	05-32-070-19 W5M
44	Peavine	0.3	-	0.4	-	03-05-079-15 W5M
45	Gift Lake	0.1	-	0.8	-	10-07-079-12 W5M
46	Little Smoky	0.2	-	1.1	-	12-01-065-21 W5M
47	Kinuso	0.1	36.3	0.3	-	12-10-073-10 W5M
48	Deer Mountain	-	-	Not Collected	-	15-22-068-09 W5M
49	Henry Piker	0.4	-	1.7	-	17-26-071-06 W6M
50	East Prairie	0.3	-	0.2	-	11-13-079-08 W6M
D1	Duvernay 1	0.4	-	-	0.04	04-33-062-20 W5M
D2	Duvernay 2	0.4	-	-	0.03	04-33-062-20 W5M
D3	Duvernay 3	0.5	-	-	0.07	04-33-062-20 W5M
D4	Duvernay 4	0.5	-	-	0.01	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	0.35	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.33	04-08-077-22 W5M
K1	Kakwa 1	0.3	-	0.8	0.04	01-13-063-05 W6M
K2	Kakwa 2	2.6	-	1.1	0.06	08-13-063-05 W6M
K3	Kakwa 3	16.6	-	1.6	0.31	12-18-063-04 W6M
K4	Kakwa 4	12.3	-	2.2	0.24	06-18-063-04 W6M
M1	Milner Pipeline	<0.1	-	0.8	-	12-14-058-08 W6M
M2	Milner Bridge	0.2	-	0.5	-	08-06-057-08 W6M
M3	Milner Wanyandie	<0.1	-	0.3	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	0.1	-	0.8	-	09-15-058-08 W6M
M5	Milner Powerline	<0.1	-	2.3	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.3	-	1.0	0.03	06-08-062-03 W6M
J2	Jayar2 14-8	0.6	-	2.2	0.07	07-08-062-03 W6M
J3	Jayar3 Bone Yard	1.0	-	1.1	<0.02	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	0.4	-	0.9	<0.02	10-08-062-03 W6M
J5	Jayar5 Camp	0.6	-	5.7	0.26	11-08-062-03 W6M

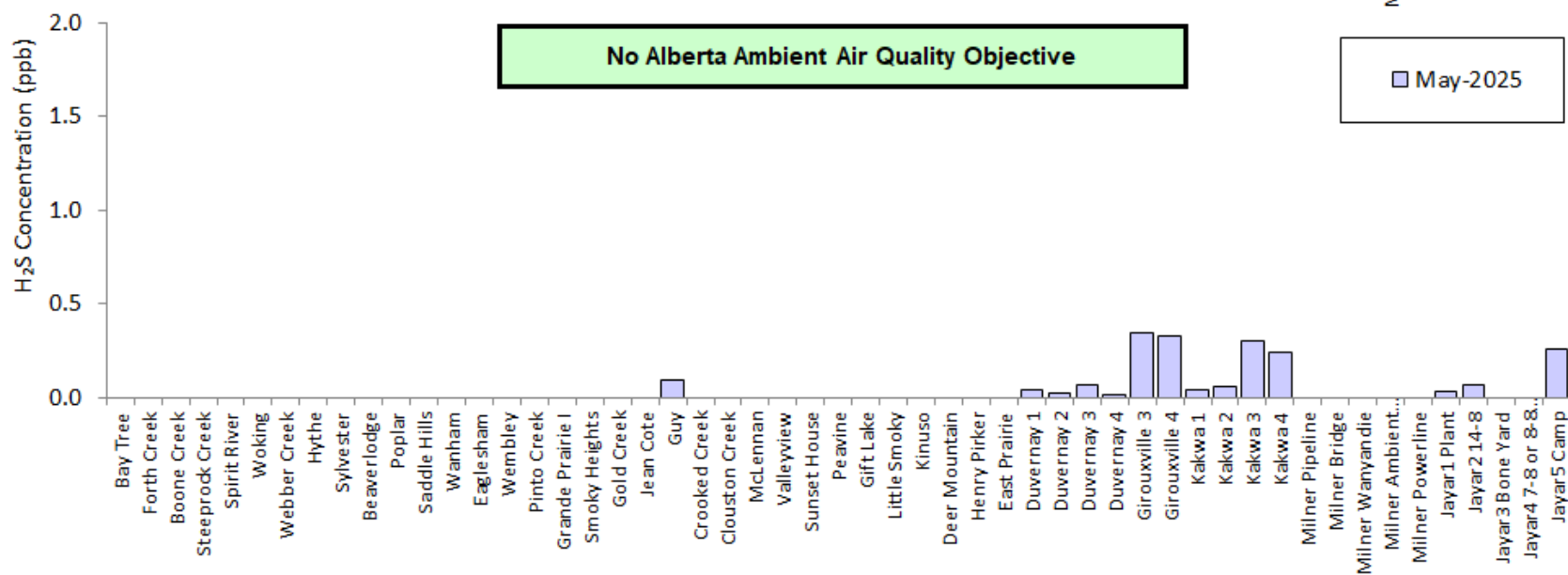
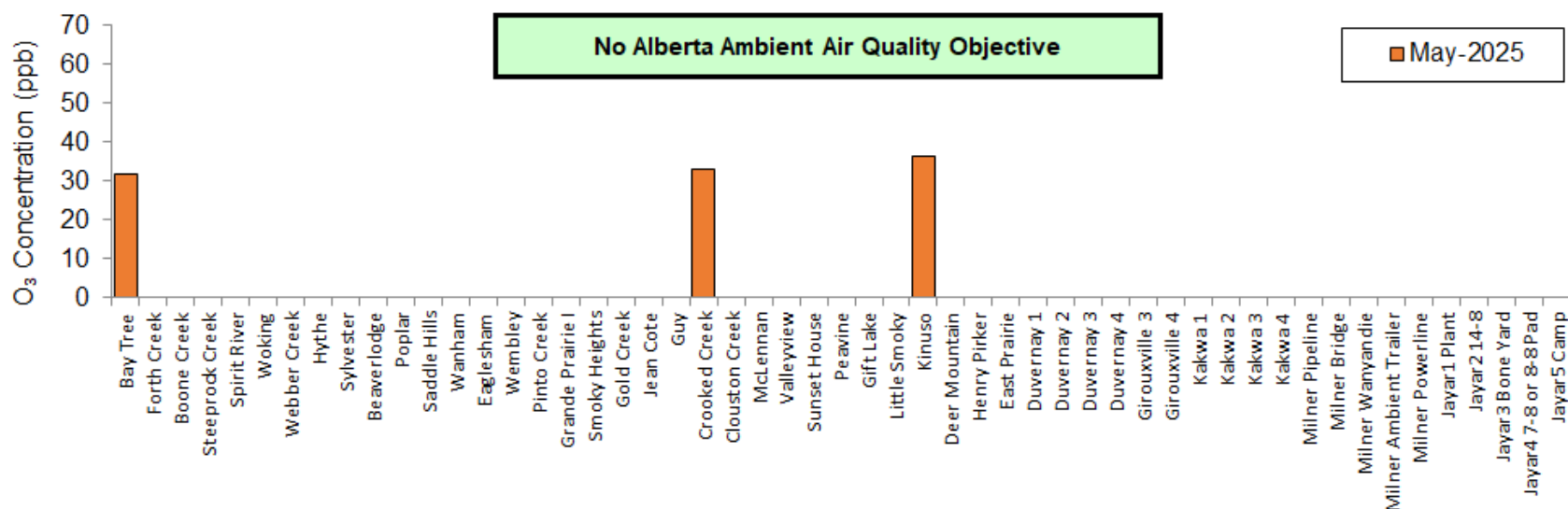
Passive Summary for May 2025

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

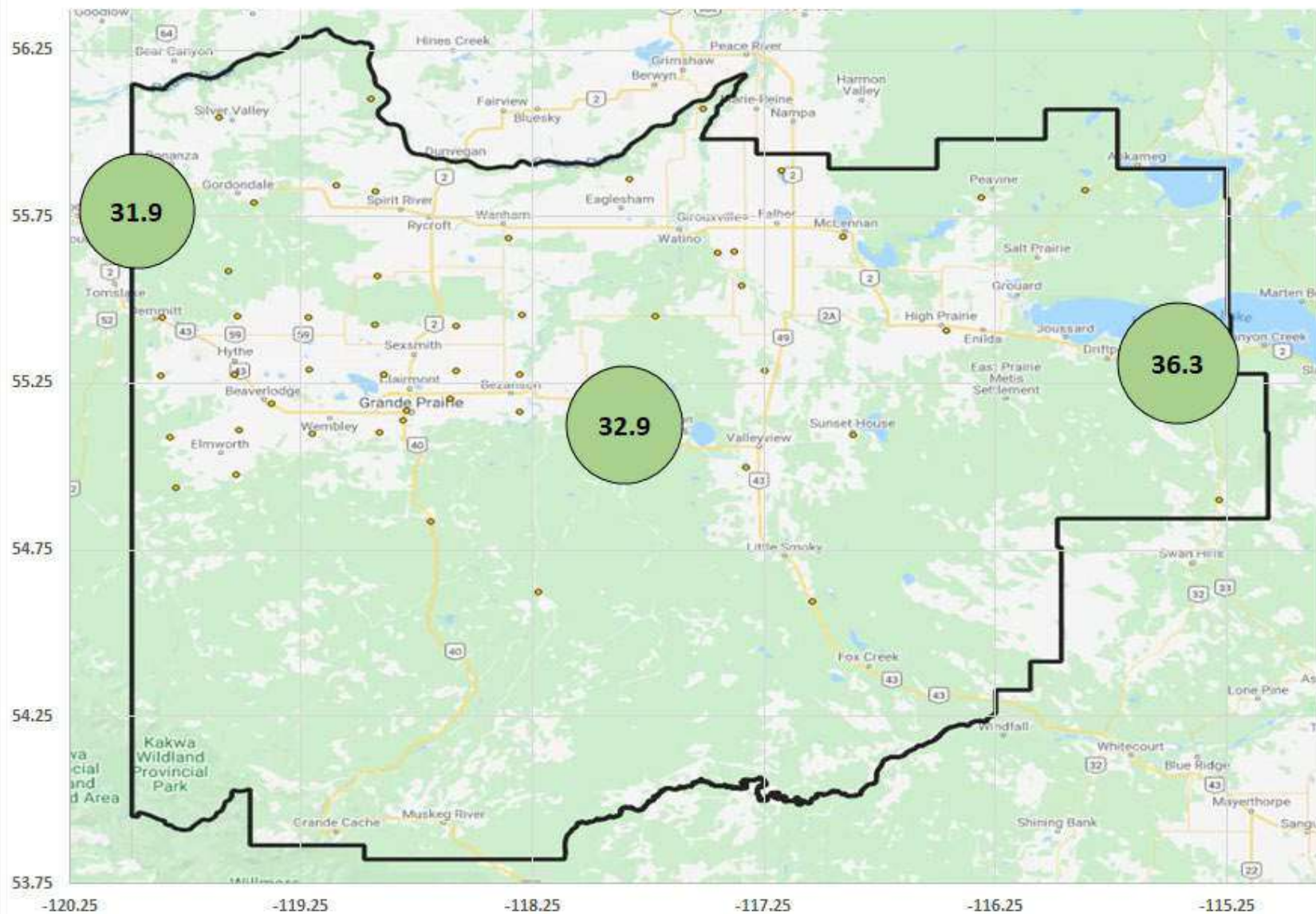
Passive Summary for May 2025 (PAZA)				
Mean	0.9	33.7	1.3	0.1
Standard Deviation	2.9	2.3	1.1	0.1
Minimum	0.1	31.9	0.1	0.0
Maximum	Sylvester (#14)	Bay Tree (#2)	Sylvester (#14)	Duvernay 4 (#D4)
	16.6	36.3	5.7	0.3
	Kakwa 3 (#K3)	Kinuso (#47)	Jayar5 Camp (#J5)	Girouxville 3 (#G3)

Continuous and Passive Monitoring Comparison				
PAZA Beaverlodge Station	0.3	36.2	2.3	-
Beaverlodge Passive (#16)	0.3	-	0.9	-
PAZA Henry Pirker Station	0.3	34.1	5.0	0.2
Henry Pirker passive (#49)	0.4	-	1.7	-
Milner Station	-	-	2.0	-
Milner passive	0.1	-	0.8	-

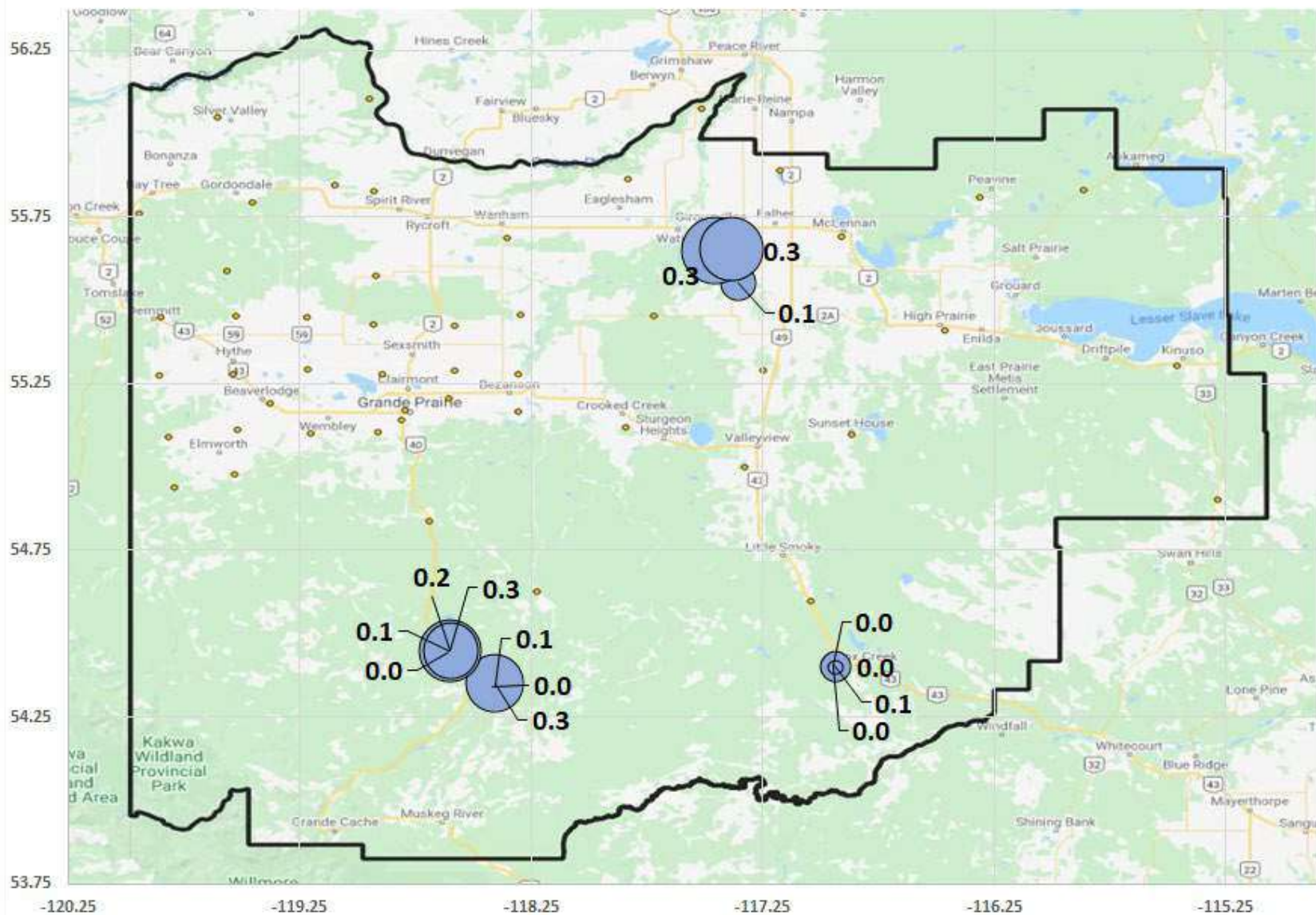




O₃ Monthly Average (units in ppb)



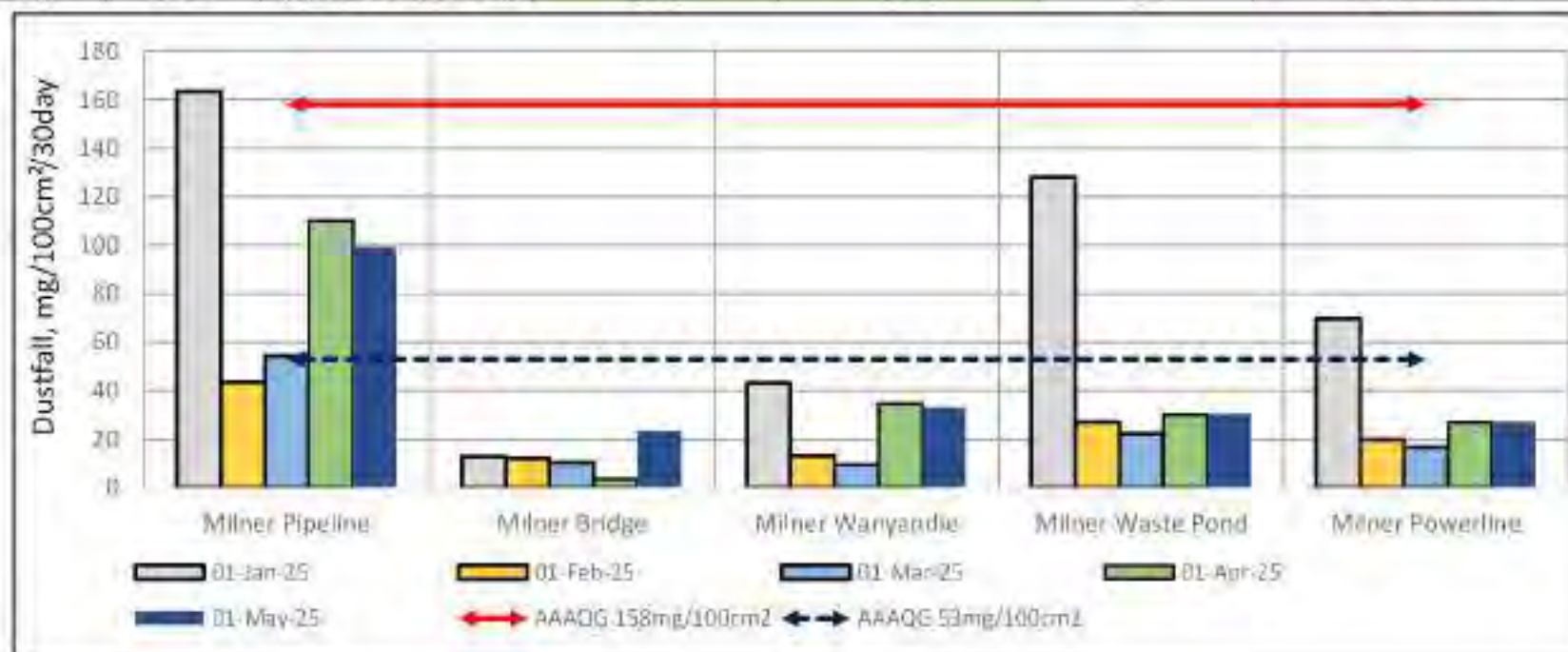
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples May 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
May	2025	Milner Pipeline	99.2	42.6	28	
May	2025	Milner Bridge	23.5	8.7	28	
May	2025	Milner Wanyandie	33.1	9.6	28	
May	2025	Milner Waste Pond	30.4	13.0	28	
May	2025	Milner Powerline	27.0	13.9	28	
May	2025	Milner Powerline Dup	26.1	12.2	28	RPD, 3% / 13%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

May 2025