



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

August 2025

September 30, 2025

Alberta Environment and Protected Areas

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

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

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of August 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 August 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, 30-min reading above the TRS AAAQG(5ppb)
- There were 94, 1hr readings above the PM_{2.5} AAAQG (80µg/m³)
- There were 8, 24hr readings 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
Smoky Heights	e-reported	TRS	29-Aug-25	05:00	05:30	5.2	2.0	180

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	444808	PM _{2.5}	31-Aug-25	10:00	11:00	106.3	15.9	258
Beaverlodge	444808	PM _{2.5}	31-Aug-25	11:00	12:00	149.7	1.5	324
Beaverlodge	444808	PM _{2.5}	31-Aug-25	12:00	13:00	126.0	12.8	10
Beaverlodge	444808	PM _{2.5}	31-Aug-25	16:00	17:00	104.5	7.7	243
Beaverlodge	444808	PM _{2.5}	31-Aug-25	17:00	18:00	129.5	7.9	223
Beaverlodge	444808	PM _{2.5}	31-Aug-25	18:00	19:00	131.2	9.3	234
Beaverlodge	444808	PM _{2.5}	31-Aug-25	19:00	20:00	155.0	10.6	261
Beaverlodge	444808	PM _{2.5}	31-Aug-25	20:00	21:00	202.5	10.6	281
Beaverlodge	444808	PM _{2.5}	31-Aug-25	21:00	22:00	234.7	10.3	282
Beaverlodge	444808	PM _{2.5}	31-Aug-25	22:00	23:00	240.6	12.9	275
Beaverlodge	444808	PM _{2.5}	31-Aug-25	22:59	23:59	260.6	7.8	268
Dunes	444809	PM _{2.5}	31-Aug-25	09:00	10:00	311.7	2.6	103
Dunes	444809	PM _{2.5}	31-Aug-25	10:00	11:00	216.3	2.3	166
Dunes	444809	PM _{2.5}	31-Aug-25	11:00	12:00	282.1	2.5	149
Dunes	444809	PM _{2.5}	31-Aug-25	12:00	13:00	248.4	2.2	166
Dunes	444809	PM _{2.5}	31-Aug-25	13:00	14:00	173.3	3.2	193
Dunes	444809	PM _{2.5}	31-Aug-25	14:00	15:00	156.6	3.6	96
Dunes	444809	PM _{2.5}	31-Aug-25	15:00	16:00	108.5	4.1	124
Dunes	444809	PM _{2.5}	31-Aug-25	16:00	17:00	94.0	4.7	97
Dunes	444809	PM _{2.5}	31-Aug-25	17:00	18:00	118.9	6.3	106
Dunes	444809	PM _{2.5}	31-Aug-25	18:00	19:00	156.7	4.3	110
Dunes	444809	PM _{2.5}	31-Aug-25	19:00	20:00	139.8	1.8	90
Dunes	444809	PM _{2.5}	31-Aug-25	20:00	21:00	138.7	0.7	64
Dunes	444809	PM _{2.5}	31-Aug-25	21:00	22:00	146.1	1.4	41
Dunes	444809	PM _{2.5}	31-Aug-25	22:00	23:00	157.2	0.6	10
Dunes	444809	PM _{2.5}	31-Aug-25	23:00	00:00	171.8	0.4	42
Henry Pirker	444812	PM _{2.5}	31-Aug-25	09:00	10:00	358.0	2.5	131
Henry Pirker	444812	PM _{2.5}	31-Aug-25	10:00	11:00	385.2	2.7	183
Henry Pirker	444812	PM _{2.5}	31-Aug-25	11:00	12:00	406.6	3.0	174
Henry Pirker	444812	PM _{2.5}	31-Aug-25	12:00	13:00	366.1	4.0	147
Henry Pirker	444812	PM _{2.5}	31-Aug-25	13:00	14:00	251.5	2.6	142
Henry Pirker	444812	PM _{2.5}	31-Aug-25	14:00	15:00	185.5	2.5	127
Henry Pirker	444812	PM _{2.5}	31-Aug-25	15:00	16:00	153.1	5.4	142
Henry Pirker	444812	PM _{2.5}	31-Aug-25	16:00	17:00	152.3	5.5	112
Henry Pirker	444812	PM _{2.5}	31-Aug-25	17:00	18:00	165.4	8.2	112
Henry Pirker	444812	PM _{2.5}	31-Aug-25	18:00	19:00	195.4	6.3	113
Henry Pirker	444812	PM _{2.5}	31-Aug-25	19:00	20:00	215.1	5.6	96

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Henry Pirker	444812	PM _{2.5}	31-Aug-25	20:00	21:00	200.5	6.2	82
Henry Pirker	444812	PM _{2.5}	31-Aug-25	21:00	22:00	231.5	7.5	84
Henry Pirker	444812	PM _{2.5}	31-Aug-25	22:00	23:00	255.0	6.3	81
Henry Pirker	444812	PM _{2.5}	31-Aug-25	23:00	00:00	277.5	5.2	87
Smoky Heights	445955	PM _{2.5}	01-Aug-25	10:00	11:00	84.0	4.0	20
Smoky Heights	445955	PM _{2.5}	01-Aug-25	11:00	12:00	92.6	8.0	20
Smoky Heights	445955	PM _{2.5}	01-Aug-25	12:00	13:00	107.8	7.3	48
Smoky Heights	445955	PM _{2.5}	01-Aug-25	13:00	14:00	109.4	5.3	146
Smoky Heights	445955	PM _{2.5}	01-Aug-25	14:00	15:00	120.3	3.1	46
Smoky Heights	445955	PM _{2.5}	01-Aug-25	15:00	16:00	161.5	7.0	169
Smoky Heights	445955	PM _{2.5}	01-Aug-25	16:00	17:00	148.1	6.0	323
Smoky Heights	445955	PM _{2.5}	01-Aug-25	17:00	18:00	97.0	7.5	323
Smoky Heights	445955	PM _{2.5}	01-Aug-25	20:00	21:00	96.3	7.7	327
Smoky Heights	445955	PM _{2.5}	01-Aug-25	21:00	22:00	92.2	6.9	335
Smoky Heights	445955	PM _{2.5}	01-Aug-25	22:00	23:00	83.0	14.8	117
Smoky Heights	445955	PM _{2.5}	02-Aug-25	19:00	20:00	123.9	6.3	302
Smoky Heights	445955	PM _{2.5}	05-Aug-25	19:00	20:00	114.3	0.7	300
Smoky Heights	445955	PM _{2.5}	05-Aug-25	20:00	21:00	190.0	5.1	354
Smoky Heights	445955	PM _{2.5}	05-Aug-25	21:00	22:00	187.8	3.8	359
Smoky Heights	445955	PM _{2.5}	06-Aug-25	02:00	03:00	85.0	1.9	285
Smoky Heights	445955	PM _{2.5}	10-Aug-25	11:00	12:00	102.5	40.3	268
Smoky Heights	445955	PM _{2.5}	10-Aug-25	12:00	13:00	109.2	34.7	270
Smoky Heights	445955	PM _{2.5}	27-Aug-25	19:00	20:00	82.3	3.8	192
Fox Creek	444810	PM _{2.5}	31-Aug-25	08:00	09:00	174.9	4.6	305
Fox Creek	444810	PM _{2.5}	31-Aug-25	09:00	10:00	323.5	6.4	313
Fox Creek	444810	PM _{2.5}	31-Aug-25	10:00	11:00	269.8	6.3	296
Fox Creek	444810	PM _{2.5}	31-Aug-25	11:00	12:00	192.1	5.2	321
Fox Creek	444810	PM _{2.5}	31-Aug-25	12:00	13:00	236.4	5.8	349
Fox Creek	444810	PM _{2.5}	31-Aug-25	13:00	14:00	280.8	5.5	32
Fox Creek	444810	PM _{2.5}	31-Aug-25	14:00	15:00	300.0	5.1	23
Fox Creek	444810	PM _{2.5}	31-Aug-25	15:00	16:00	234.6	3.9	5
Fox Creek	444810	PM _{2.5}	31-Aug-25	16:00	17:00	260.9	3.6	31
Fox Creek	444810	PM _{2.5}	31-Aug-25	17:00	18:00	204.7	2.7	72
Fox Creek	444810	PM _{2.5}	31-Aug-25	18:00	19:00	194.9	1.3	276
Fox Creek	444810	PM _{2.5}	31-Aug-25	19:00	20:00	190.7	1.3	234
Fox Creek	444810	PM _{2.5}	31-Aug-25	20:00	21:00	188.1	1.9	182
Fox Creek	444810	PM _{2.5}	31-Aug-25	21:00	22:00	181.4	2.9	170
Fox Creek	444810	PM _{2.5}	31-Aug-25	22:00	23:00	193.3	2.7	174
Fox Creek	444810	PM _{2.5}	31-Aug-25	23:00	00:00	183.4	2.9	165
Happy Valley	444811	PM _{2.5}	31-Aug-25	06:00	07:00	134.9	2.6	262
Happy Valley	444811	PM _{2.5}	31-Aug-25	07:00	08:00	223.9	1.5	146
Happy Valley	444811	PM _{2.5}	31-Aug-25	08:00	09:00	368.9	4.9	101
Happy Valley	444811	PM _{2.5}	31-Aug-25	09:00	10:00	432.0	8.8	104
Happy Valley	444811	PM _{2.5}	31-Aug-25	10:00	11:00	419.5	6.1	113
Happy Valley	444811	PM _{2.5}	31-Aug-25	11:00	12:00	385.5	5.4	69
Happy Valley	444811	PM _{2.5}	31-Aug-25	12:00	13:00	374.1	5.8	37
Happy Valley	444811	PM _{2.5}	31-Aug-25	13:00	14:00	374.0	11.9	48
Happy Valley	444811	PM _{2.5}	31-Aug-25	14:00	15:00	351.2	10.6	86
Happy Valley	444811	PM _{2.5}	31-Aug-25	15:00	16:00	319.5	12.2	96
Happy Valley	444811	PM _{2.5}	31-Aug-25	16:00	17:00	284.6	14.8	94
Happy Valley	444811	PM _{2.5}	31-Aug-25	17:00	18:00	287.2	18.1	88
Happy Valley	444811	PM _{2.5}	31-Aug-25	18:00	19:00	294.2	14.2	88
Happy Valley	444811	PM _{2.5}	31-Aug-25	19:00	20:00	306.4	7.3	100
Happy Valley	444811	PM _{2.5}	31-Aug-25	20:00	21:00	340.5	11.3	133

Site	reference	Pollutant	Date	From MST	To MST	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Happy Valley	444811	PM _{2.5}	31-Aug-25	21:00	22:00	298.3	11.6	118
Happy Valley	444811	PM _{2.5}	31-Aug-25	22:00	23:00	274.0	3.9	124
Happy Valley	444811	PM _{2.5}	31-Aug-25	23:00	00:00	220.0	4.1	232

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

Site	reference	Pollutant	Date	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	444808	PM _{2.5}	31-Aug-25	90.3	11.0	2
Dunes	444809	PM _{2.5}	31-Aug-25	113.4	2.0	122
Henry Pirker	444812	PM _{2.5}	31-Aug-25	163.7	4.0	101
Smoky Heights	445955	PM _{2.5}	01-Aug-25	58.8	6.6	19
Smoky Heights	445955	PM _{2.5}	05-Aug-25	29.1	6.8	235
Smoky Heights	445955	PM _{2.5}	06-Aug-25	34.9	4.3	316
Fox Creek	444810	PM _{2.5}	31-Aug-25	154.7	3.1	325
Happy Valley	444811	PM _{2.5}	31-Aug-25	242.6	8.0	93

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

Site	reference	Pollutant	Date	Average ppb
Kakwa 3	445646	SO ₂ Passive	August 2025	31.7
Kakwa 4	445648	SO ₂ Passive	August 2025	11.1

Operational times less than 90 percent

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

Air Incidents

Wildfires at month end caused periods of elevated smoke (particulate matter) in the region

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:
 - Milner 7 - New Wanyandie, SO₂ and NO₂ torn apart & pole bent
 - Milner 8 - Waste Pond & Milner 10 - Powerline were dry dust fall samples
 - Milner 10 - Powerline pole partially pushed over
 - Guy SO₂ passive found on ground (was analyzed)
 - Girouxville 3 site passive was pulled apart (part of duplicate set)

There were 20 duplicates sampled in the month of August:

- Eight SO₂ duplicates located at Bay Tree, Sylvester, Jean Cote, Clouston Creek, Duvernay 3, Kakwa 1, Milner Pipeline, Jayar1 Plant
 - RPD ranging from 0% to 40% (no fails)

- One O₃ duplicate at Kinuso
 - RPD of 21% (no fail)
- Seven NO₂ duplicates at Bay Tree, Poplar, Valleyview, Sunset House, Kakwa 4, Milner Powerline, Jayar2 14-8
 - RPD ranging from 0% to 11% (no fails)
- Four H₂S duplicates at Duvernay 3, Girouxville 3, Kakwa 2, Jayar3 Bone Yard
 - RPD ranging from 0% to 24% (no fails)
 - Duplicate at Girouxville 3, one was damaged
 - Duplicate at Jayar3 Bone Yard were both <0.02ppb

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 25.2 to 34.1 mg/100cm²/30day
- Milner Pipeline the sampler was damaged (no analysis)
- Milner Wanyandie and Powerline were dry samples
- The duplicate at Powerline did have sample results

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.

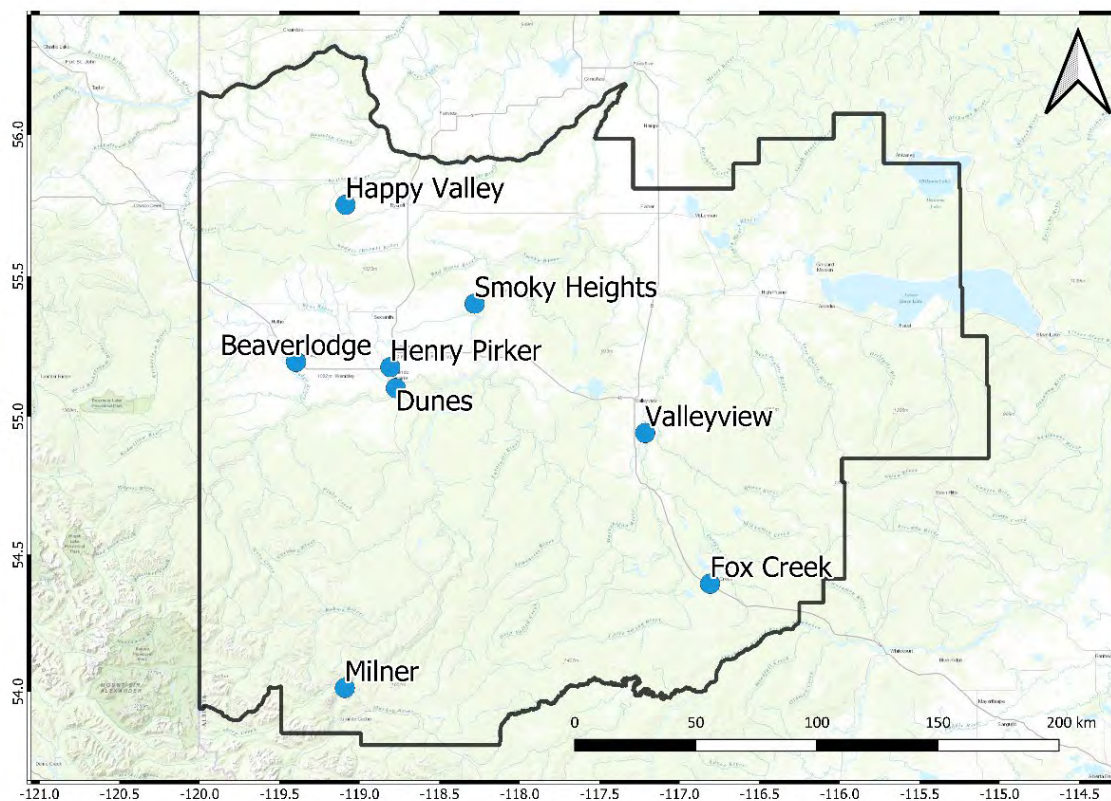


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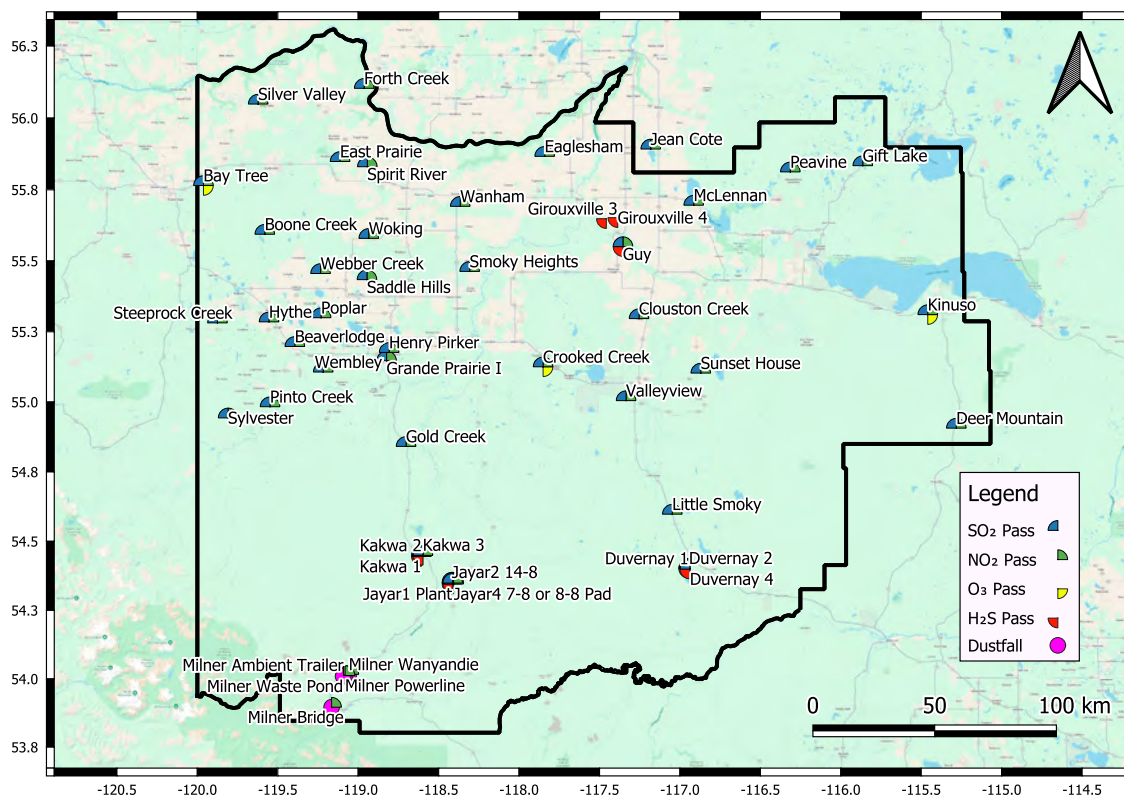
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 August 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 - August 2025 Beaverlodge Station Report

ALR - August 2025 Leavenworth Station Report															
Parameter	August		Valid	Operational	1-hour			24-hour			Exceedance				Calibration
	Average	Minimum			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.5	0.0	94.5%	99.6%	14.7	-	Aug-23 08:00	1.9	-	Aug-23	-	-	-	-	Aug 02, 2025
NO ₂ (ppb)	3.3	0.8	94.5%	99.6%	12.1	159	Aug-23 06:00	5.0	-	Aug-27	0	-	-	-	Aug 02, 2025
NO _x (ppb)	3.8	0.8	94.5%	99.6%	24.1	-	Aug-23 08:00	6.8	-	Aug-23	-	-	-	-	Aug 02, 2025
O ₃ (ppb)	23.9	2.9	95.3%	99.9%	56.9	76	Aug-31 18:00	37.1	-	Aug-31	0	-	-	-	Aug 12, 2025
PM _{2.5} (µg/m³)	9.2	0.3	99.6%	99.9%	260.6	80	Aug-31 23:59	90.3	29	Aug-31	11	-	1	-	Aug 12, 2025
SO ₂ (ppb)	0.5	0.0	95.2%	99.9%	11.0	172	Aug-23 03:00	1.9	48	Aug-23	0	-	0	0	Aug 12, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	17.8	5.8	99.3%	99.3%	33.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	59.5	16.4	99.6%	99.6%	100.2										
WS (km/hr)	8.7	0.1	94.4%	95.3%	34.4										
WD (deg)	18	0.0	94.4%	95.3%	360.0	Average Wind Direction 18 NNE									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42iQ	Aug 1, AIC >10%, span ran later in day to verify equipment ok (1hr); Aug 2 AIC came in >10%, calibration performed; Aug 12, as found and GPT performed (2hrs)
O ₃	Thermo	49iQ	Aug 1, Nitrogen AIC >10%, span ran for all equipment later in day to verify ok (1hr)
PM _{2.5}	API	T640	Aug 1, data loss during work on analyzers (1hr); Aug 31, 11x1hr readings above AAAQG and 1x24hr above AAAQO
SO ₂	Thermo	43i-TLE	Aug 1, Nitrogen AIC >10%, span ran for all equipment later in day to verify ok (1hr)
Met Equip	MetOne	50.5	July 31 to Aug 2, wind speed went full scale and flatlined (34hrs removed in Aug); Removed EPA 50.5H sonic unit S/N:P11117 installed PAZA 50.5H Sonic S/N:T11758 sensor; Jan 1&2, Temperature had drop in data both days (2hrs), then both temperature and RH had maintenance time removed (3hrs total)

1.2 Dunes Air Monitoring Station

PAZA - August 2025 Dunes Station Report

Parameter	August		Valid	Operational	Max	30min / 1-hour		24-hour			Exceedance				Calibration
	Average	Minimum				Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m³)	8.6	0.0	99.5%	100.0%	311.7	80	Aug-31 10:00	113.4	29	Aug-31	14	-	1	-	Aug-21-2025
SO ₂ (ppb)	0.7	0.0	95.2%	100.0%	7.7	172	Aug-23 08:00	1.7	48	Aug-26	0	-	0	0	Aug-21-2025
TRS (ppb)	0.5	0.0	94.8%	99.6%	2.9	5	Aug-27 04:30	0.9	3	Aug-27	0	-	0	-	Aug-21-2025
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	17.7	3.7	100.0%	100.0%	33.3										
RH (%)	60.7	13.2	100.0%	100.0%	99.9										
WS (km/hr)	3.3	0.1	100.0%	100.0%	12.0										
WD (deg)	253	1.0	100.0%	100.0%	359.2	Average Wind Direction 253 WSW									

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	SHARP 5030	No Operational issues; Aug 31, 15x1hr readings above AAAQG and 1x24hr readings above AAAQO
SO ₂	Thermo	43i	No Operational issues noted during the month
TRS	Thermo	43i	Aug 26, failed AIC last two mornings, calibration on Aug 21 perm oven temp was adjusted from 35C to 45C, perm tube was settling, an as found was run and came in at 1%, new setpoint for span target was set (3hrs)
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted during the month

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - August 2025 Henry Pirker Station Report

August				1-hour			8-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)	1.7	0.0	94.9%	99.7%	54.9	-	Aug-27 08:00	5.9	-	Aug-25	-	-	-	-	Aug 06, 2025
NO ₂ (ppb)	5.5	0.8	94.9%	99.7%	27.7	159	Aug-27 22:00	12.0	-	Aug-27	0	-	-	-	Aug 06, 2025
NO _x (ppb)	7.3	0.8	94.9%	99.7%	75.3	-	Aug-27 08:00	17.6	-	Aug-27	-	-	-	-	Aug 06, 2025
O ₃ (ppb)	21.5	0.5	95.4%	100.0%	61.4	76	Aug-29 13:00	33.5	-	Aug-31	0	-	-	-	Aug 06, 2025
PM _{2.5} (µg/m³)	12.3	0.4	99.9%	100.0%	406.6	80	Aug-31 12:00	163.7	29	Aug-31	15	-	1	-	Aug 11, 2025
SO ₂ (ppb)	0.3	0.0	95.3%	100.0%	10.4	172	Aug-24 09:00	1.1	48	Aug-24	0	-	0	0	Aug 11, 2025
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	1.5	10	Aug-06 05:00	0.4	3	Aug-31	0	-	0	-	Aug 11, 2025
CH ₄ (ppm)	2.3	2.1	95.3%	100.0%	3.5	-	Aug-22 06:00	2.5	-	Aug-22	-	-	-	-	Aug 07, 2025
THC (ppm)	2.3	2.0	95.3%	100.0%	3.4	-	Aug-22 06:00	2.5	-	Aug-22	-	-	-	-	Aug 07, 2025
NMHC (ppm)	0.0	0.0	95.3%	100.0%	0.1	-	Aug-19 06:00	0.0	-	Aug-19	-	-	-	-	Aug 07, 2025
CO (ppm)	0.2	0.1	95.3%	100.0%	1.4	13	Aug-31 12:00	0.7	5	Aug-31	0	0	-	-	Aug 07, 2025
Average		Minimum	Valid	Operational	Maximum										
Temp (°C)	18.8	5.9	100.0%	100.0%	33.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									Dec 12, 2024
RH (%)	56.4	13.5	100.0%	100.0%	89.6										Dec 12, 2024
SR (W/m²)	193.6	0.0	100.0%	100.0%	767.2										Dec 12, 2024
WS (km/hr)	6.2	0.1	100.0%	100.0%	29.6										Dec 12, 2024
WD (deg)	268	0.3	100.0%	100.0%	359.5	Average Wind Direction 268 W									Dec 12, 2024

1.4 Smoky Heights Air Monitoring Station

PAZA - August 2025 Smoky Heights Station Report

August 2025 Empty Weights Station Report																
Parameter	August				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)	13.9	0.0	93.2%	93.6%	190.0	80	Aug-05 21:00	58.8	29	Aug-01	19	-	3	-	Aug 19, 2025	
SO ₂ (ppb)	0.3	0.0	95.0%	99.9%	8.1	172	Aug-24 13:00	0.7	48	Aug-24	0	-	0	0	Aug 19, 2025	
TRS (ppb)	0.3	0.0	94.9%	99.7%	5.2	5	Aug-29 05:30	0.8	3	Aug-27	1	-	0	-	Aug 19, 2025	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	17.8	5.1	99.6%	100.0%	33.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction256WNW										
WS (km/hr)	8.7	0.2	99.6%	100.0%	40.3											
WD (deg)	256	0.4	99.6%	100.0%	359.3											
																Aug 02, 2025
																Aug 02, 2025

1.5 Valleyview Air Monitoring Station

PAZA - August 2025 Valleyview Station Report

AEA - August 2025 Valley View Station Report															
Parameter	August			Operational	Max	1-hour		24-hour			Exceedance				Calibration
	Average	Minimum	Valid			Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.1	0.0	95.3%	100.0%	5.4	172	Aug-25 13:00	0.8	48	Aug-25	0	-	0	0	Aug 13, 2025
H ₂ S (ppb)	0.2	0.0	95.3%	100.0%	1.5	10	Aug-31 11:00	0.8	3	Aug-31	0	-	0	-	Aug 13, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	17.4	3.6	100.0%	100.0%	33.5	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	73.0	21.2	100.0%	100.0%	100.3										
WS (km/hr)	2.8	0.0	100.0%	100.0%	12.8										
WD (deg)	241	1.0	100.0%	100.0%	358.4										
Average Wind Direction									241	NW					

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43i-APSCB	No Operational issues noted during the month
H ₂ S	TEI	450i-APHAA / 43C	No Operational issues noted during the month
Met Equip	RMYoung	RMY86004	No Operational issues noted during the month

1.6 Fox Creek Air Monitoring Station

PAZA - August 2025 Fox Creek Station Report

AACR - August 2025 Fox Creek Station Report															
Parameter	August		Valid	Operational	1-hour			8-hour / 24-hour			Exceedance				Calibration
	Average	Minimum			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	5.0	0.0	94.9%	99.9%	49.8	-	Aug-23 06:00	10.8	-	Aug-27	-	-	-	-	Aug 07, 2025
NO ₂ (ppb)	4.5	0.2	94.9%	99.9%	29.6	159	Aug-27 20:00	8.2	-	Aug-28	0	-	-	-	Aug 07, 2025
NO _x (ppb)	9.8	0.4	94.9%	99.9%	60.2	-	Aug-23 06:00	18.9	-	Aug-27	-	-	-	-	Aug 07, 2025
O ₃ (ppb)	18.2	0.3	94.8%	99.5%	57.7	76	Aug-31 15:00	25.4	-	Aug-02	0	-	-	-	Aug 07, 2025
PM _{2.5} (µg/m³)	13.1	1.4	93.6%	93.7%	323.5	80	Aug-31 10:00	154.7	29	Aug-31	16	-	1	-	Aug 07, 2025
SO ₂ (ppb)	0.3	0.0	95.4%	100.0%	18.1	172	Aug-26 09:00	2.6	48	Aug-26	0	-	0	0	Aug 07, 2025
H ₂ S (ppb)	0.2	0.0	93.0%	97.4%	0.6	10	Aug-31 10:00	0.4	3	Aug-12	0	-	0	-	Aug 02, 2025
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	16.7	5.0	100.0%	100.0%	32.1	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	4.7	0.0	100.0%	100.0%	18.6										
WD (deg)	250	1.2	100.0%	100.0%	359.9	Average Wind Direction		250	WSW						

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42IQ	Aug 3, data failed nitrogen balance, data removed (1hr)
O ₃	TECO	49i	Aug 1, remote AIC performed for H2S, also ran for O3 (2hrs maintenance); Aug 10 & 12, remote AIC performed for H2S, also ran for O3 (2hrs maintenance)
PM _{2.5}	API	T640	Aug 18-20, analyzer flatlined, reset performed and analyzer resumed operation (47hrs removed); Aug 31, 16x1hr readings above AAAQG and 1x24hr reading above AAAQO
SO ₂	TEI	43i-TLE	No operational issues noted during the month
H ₂ S	TEI	450i	Aug 1, AIC span came in <10%, remote span initiated to verify ok (9%), (2hrs); Aug 2, AIC failed, onsite calibration performed, as found 7%, linear results, replaced perm tube; Aug 4-7, AIC all failed spans, was believed to be perm tube settling, site visit to run a calibration check, removal calibration for SOX scrubber swap, install calibration also performed (8hrs maintenance); Aug 10, AIC failed, manual check passed (2hr); Aug 12, AIC failed, manual check passed (2hr); Aug 15, AIC failed, another calibration performed Aug 15, as found 4% (5hrs maintenance)
Met Equip	MetOne	50.5	No operational issues noted during the month

1.7 Happy Valley Air Monitoring Station

PAZA - August 2025 Happy Valley Station Report

Parameter	August			30min / 1-hour				24-hour		Exceedance					Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	ix Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.7	0.0	94.2%	99.3%	13.2	-	Aug-16 12:00	2.1	-	Aug-06	-	-	-	-	Aug 14, 2025
NO ₂ (ppb)	2.6	0.2	94.2%	99.3%	15.2	159	Aug-05 23:00	5.0	-	Aug-06	0	-	-	-	Aug 14, 2025
NO _x (ppb)	3.3	0.2	94.2%	99.3%	23.2	-	Aug-05 23:00	7.2	-	Aug-06	-	-	-	-	Aug 14, 2025
O ₃ (ppb)	23.7	1.7	94.6%	99.2%	61.4	76	Aug-29 13:00	39.4	-	Aug-29	0	-	-	-	Aug 14, 2025
PM _{2.5} (µg/m ³)	14.7	0.5	99.7%	100.0%	432.0	80	Aug-31 10:00	242.6	29	Aug-31	18	-	1	-	Aug 14, 2025
SO ₂ (ppb)	0.5	0.0	94.5%	99.6%	10.2	172	Aug-27 05:00	2.6	48	Aug-27	0	-	0	0	Aug 14, 2025
TRS (ppb)	0.5	0.2	94.8%	99.6%	1.9	5	Aug-01 04:30	1.1	-	Aug-31	0	-	-	-	Aug 03, 2025
CH ₄ (ppm)	2.0	1.8	91.0%	95.8%	2.3	-	Aug-27 20:00	2.2	-	Aug-31	-	-	-	-	Aug 14, 2025
THC (ppm)	2.0	1.8	91.0%	95.8%	2.5	-	Aug-27 20:00	2.2	-	Aug-31	-	-	-	-	Aug 14, 2025
NMHC (ppm)	0.0	0.0	91.0%	95.8%	0.2	-	Aug-21 22:00	0.0	-	Aug-21	-	-	-	-	Aug 14, 2025
Average Minimum Valid Operational Maximum															
Temp (°C)	17.6	5.4	100.0%	100.0%	32.4	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	9.5	0.4	100.0%	100.0%	37.4										
WD (deg)	255	1.6	100.0%	100.0%	353.9										
Average Wind Direction									255	WSW					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	Aug 1, manual AIC run due to TRS analyzer (2hrs maintenance); Aug 9, nitrogen failed AIC, manual check performed, ok (1hr maintenance); Aug 14, data failed nitrogen balance (2hrs removed)
O ₃	TEI	49i	Aug 1, manual AIC run due to TRS analyzer (2hrs maintenance); Aug 3, AIC fail, manual check ok (3hrs); Aug 9, manual AIC run due to nitrogen analyzer (1hr maintenance)
PM _{2.5}	API	T640	No operational issues; Aug 31, 18x1hr readings above AAAQG and 1x24hr reading above AAAQO
SO ₂	TEI	43i	Aug 1, manual AIC run due to TRS analyzer (2hrs maintenance); Aug 9, manual AIC run due to nitrogen analyzer (1hr maintenance)
TRS	TEI	43i	Aug 1, AIC >10%, manual AIC run also >10% (2hrs maintenance), calibration scheduled to verify ok, as found <5% and linear; Aug 9, manual AIC run due to nitrogen analyzer, TRS ok (1hr maintenance)
THC/CH ₄ /NMHC	TEI	55i	Aug 1, manual AIC run due to TRS analyzer (2hrs maintenance); Aug 9, manual AIC run due to nitrogen analyzer (1hr maintenance); Aug 13-14, analyzer fail due to readings <1.8ppm, Aug 14 calibration performed with hydrogen tank and ultra zero air cylinder (in tandem) replaced; Aug 27, readings dropped <1.8ppm, zero air cylinder ran out and second tank valve was not engaged, replaced empty and set valves on both (6hrs)
Met Equip	MetOne	50.5	No operational issues noted in the month

1.8 Milner Air Monitoring Station

PAZA - August 2025 Milner Station Report

Parameter	August			Operational	1-hour			24-hour		Exceedance					Calibration Date
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.7	0.0	94.8%	99.5%	12.1	-	Aug-23 04:00	1.9	-	Aug-15	-	-	-	-	Aug 30, 2025
NO ₂ (ppb)	1.3	0.0	94.8%	99.5%	10.7	159	Aug-31 23:00	2.5	-	Aug-23	0	-	-	-	Aug 30, 2025
NO _x (ppb)	2.1	0.0	94.8%	99.5%	21.1	-	Aug-23 04:00	4.4	-	Aug-23	-	-	-	-	Aug 30, 2025
PM _{2.5} (µg/m ³)	6.1	0.5	99.2%	99.5%	19.7	80	Aug-31 08:00	14.3	29	Aug-30	0	-	0	-	Aug 30, 2025
Average Minimum Valid Operational Maximum															
WS (km/hr)	4.9	0.0	99.7%	99.7%	24.3	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WD (deg)	246	0.2	99.7%	99.7%	359.6										
Average Wind Direction									246	WSW					

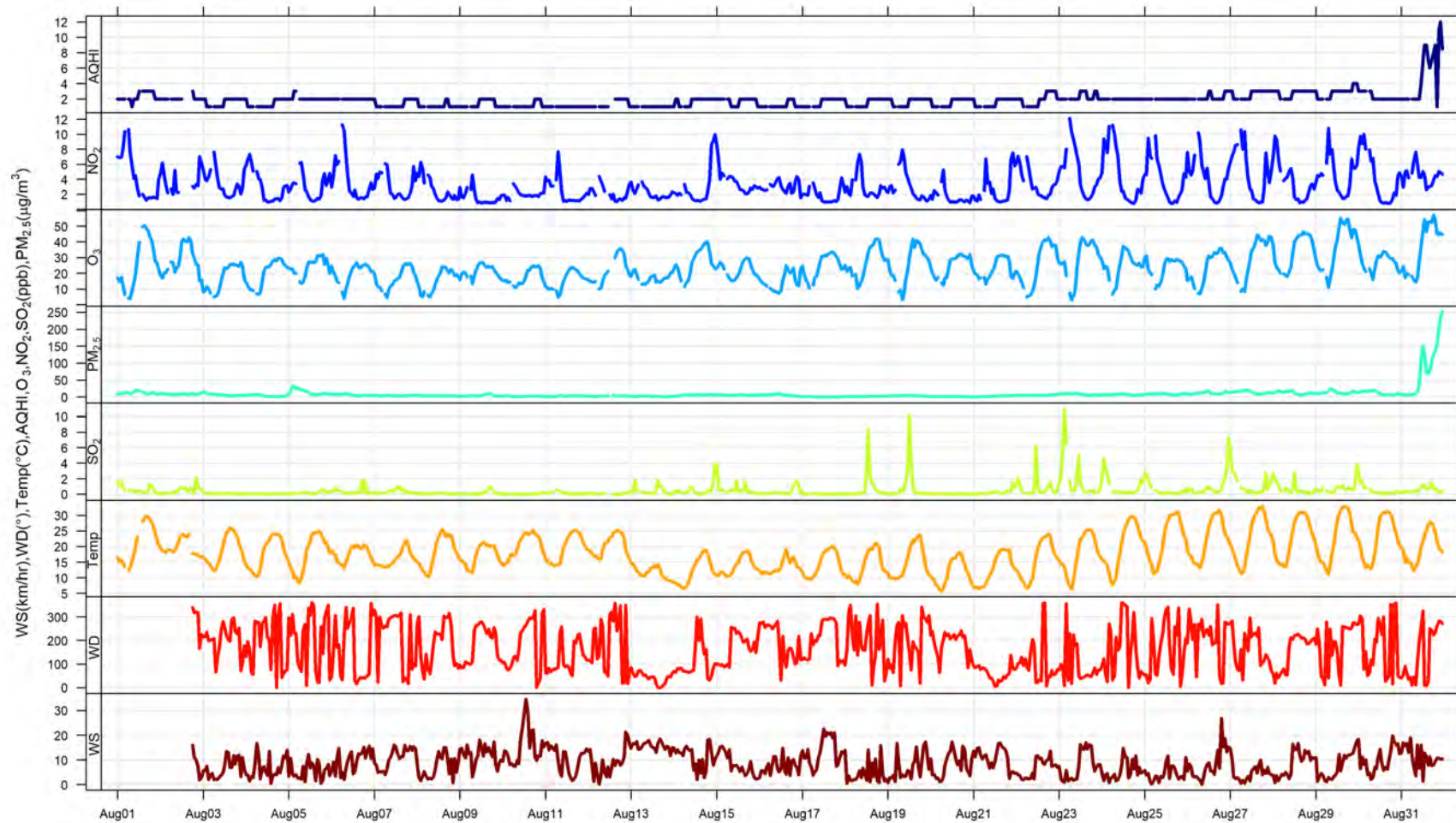
Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Aug 5,9,14 AIC failed to run, manual runs on Aug 5 and 9 performed, no additional check on Aug 14, however Aug 15 AIC was good.
PM _{2.5}	API	T640	Aug 13-14, data flatlined (2hrs), then data loss (2hrs), then reset itself and continued
Met Equip	MetOne	50.5	Aug 14, data loss, then reset itself and continued (2hrs)

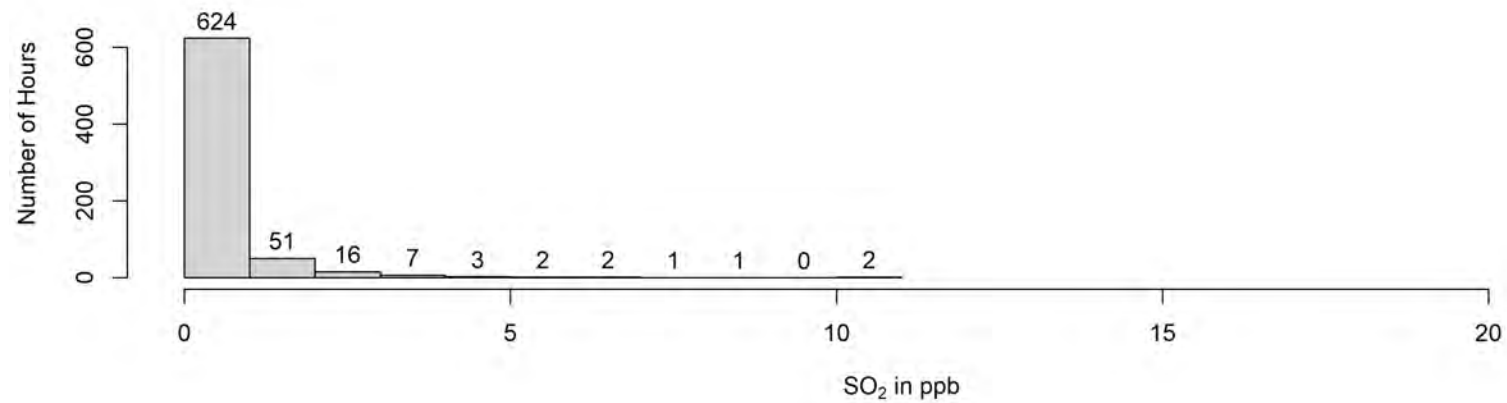
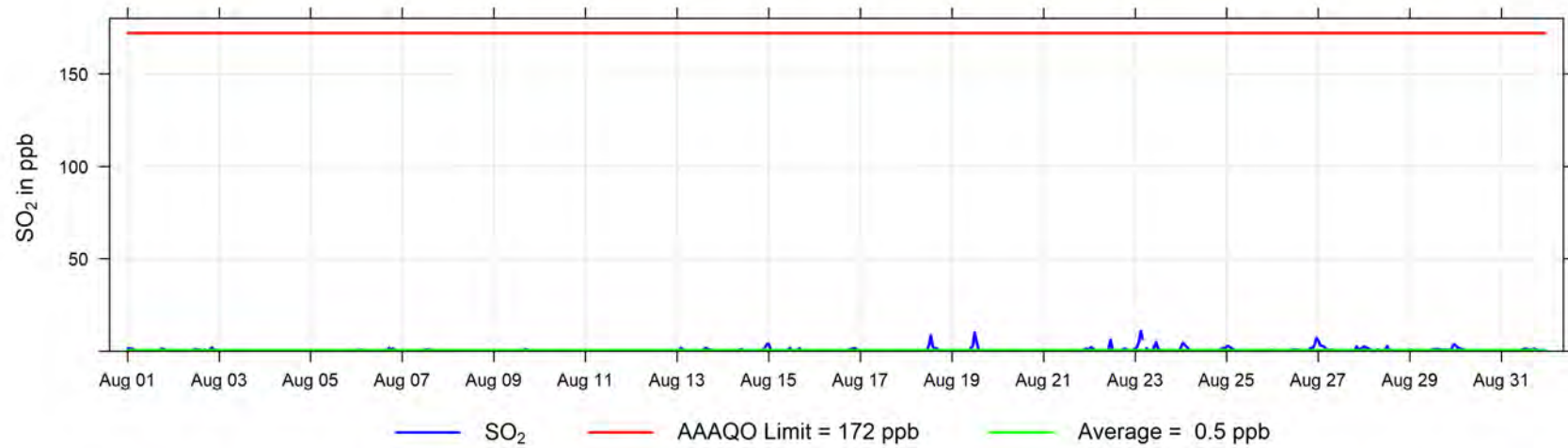
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

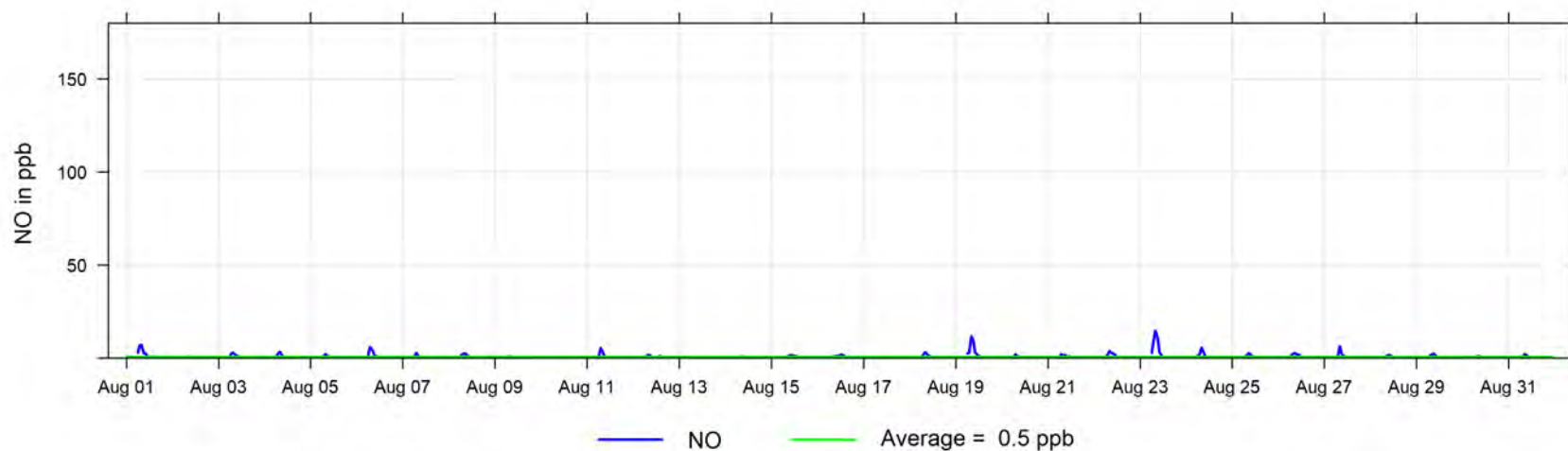
August 2025 Concentration Readings at Beaverlodge Station



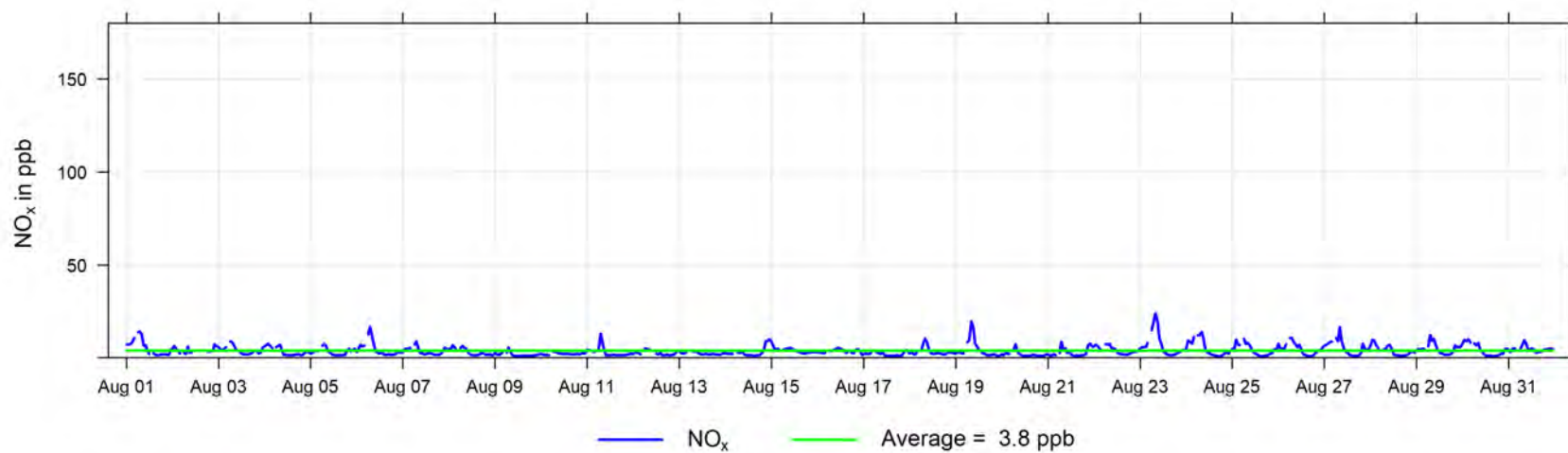
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



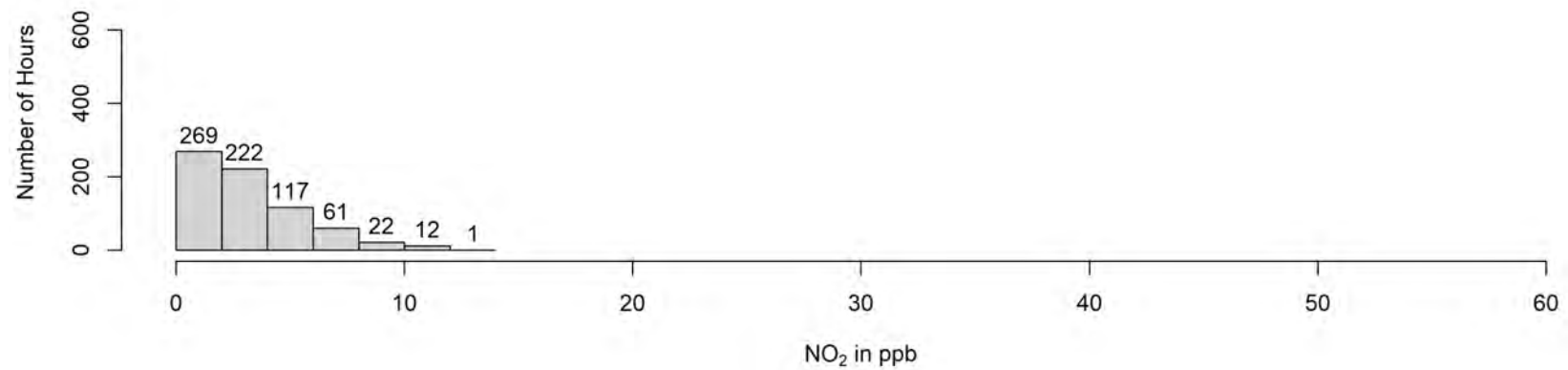
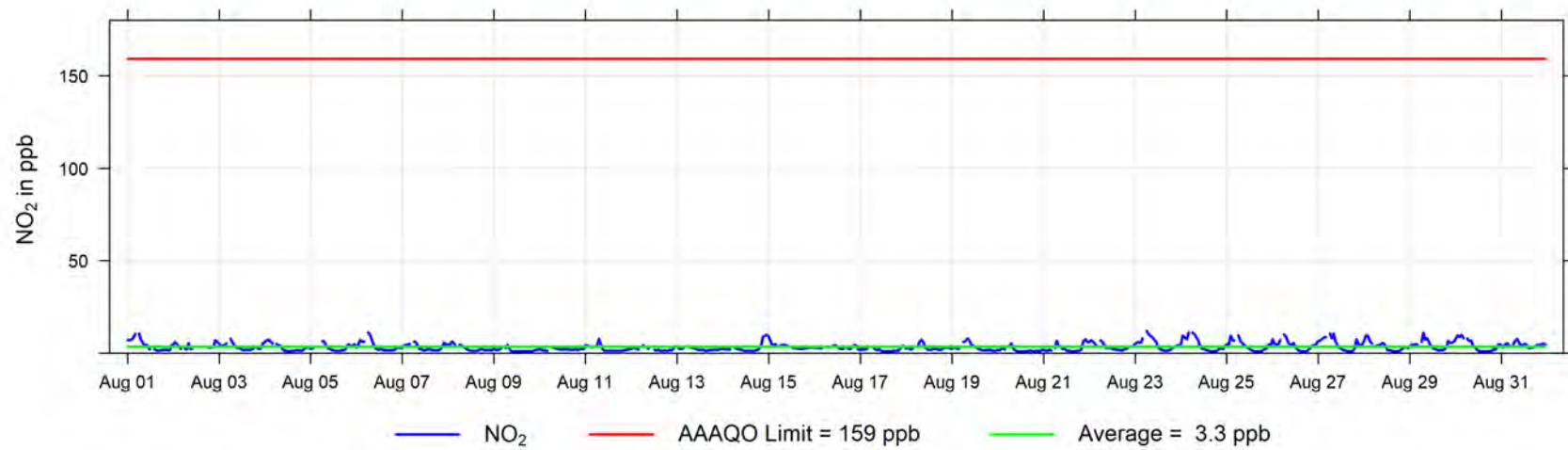
August 2025 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



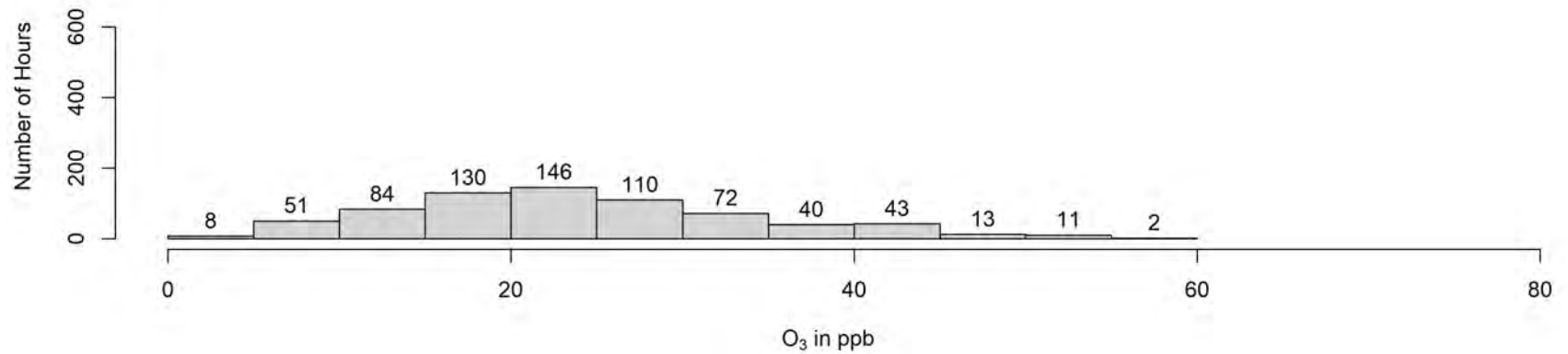
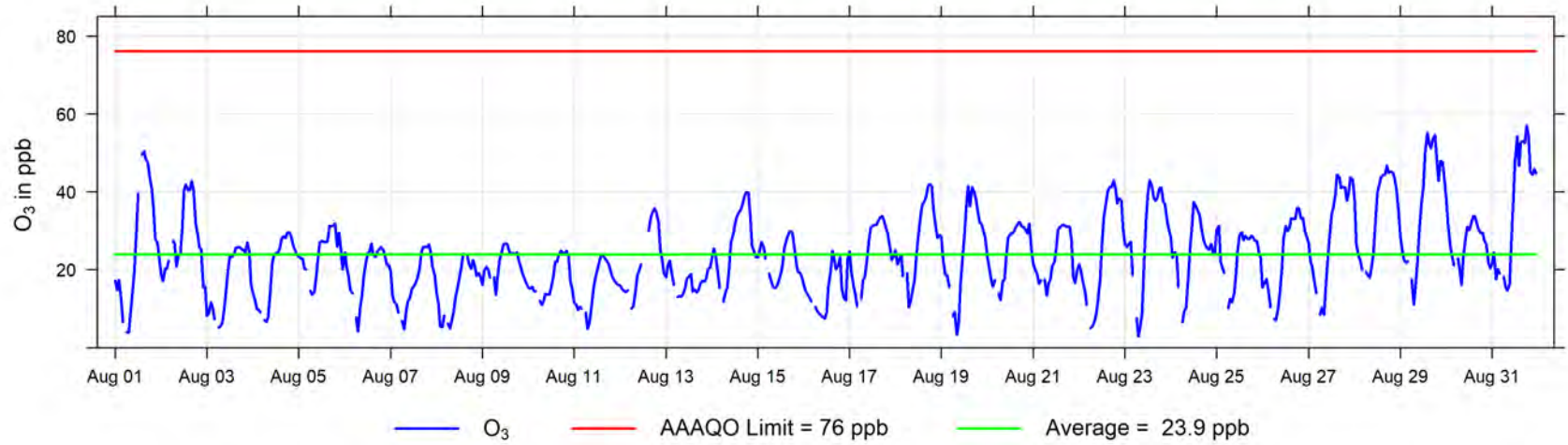
August 2025 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



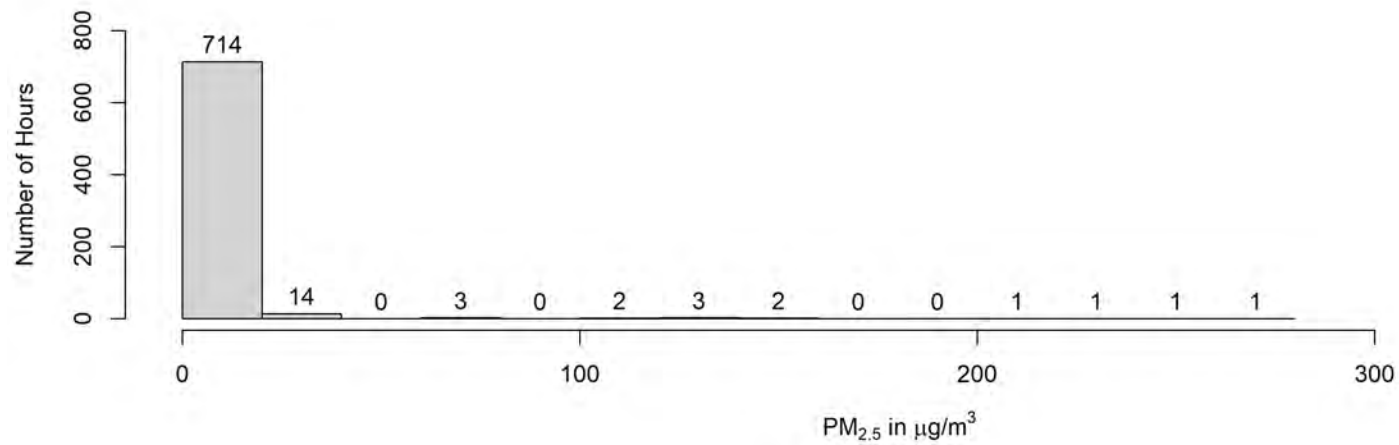
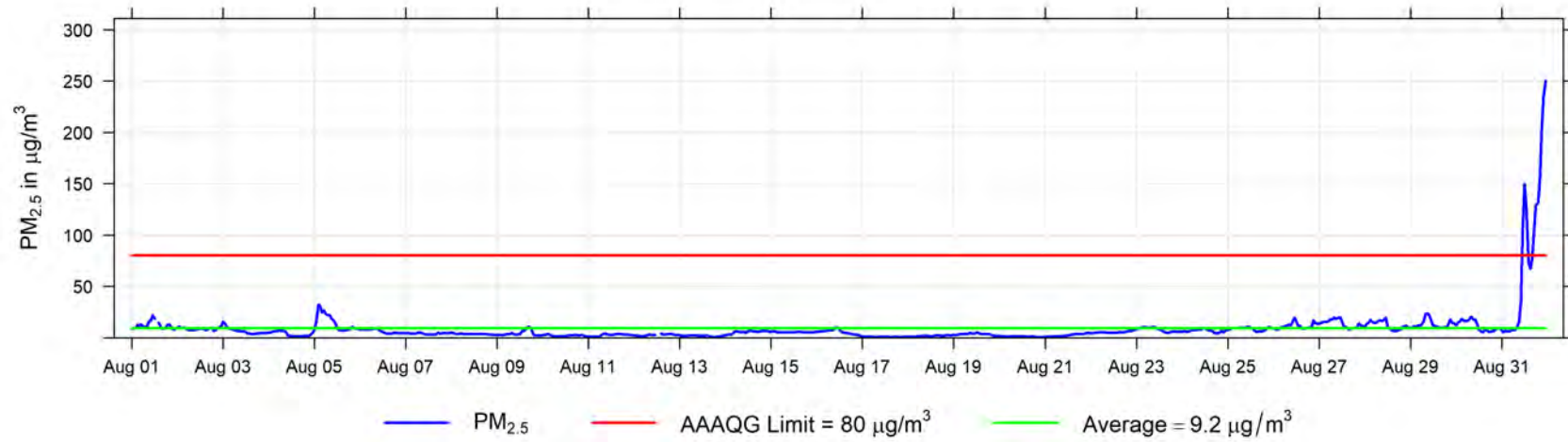
August 2025 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



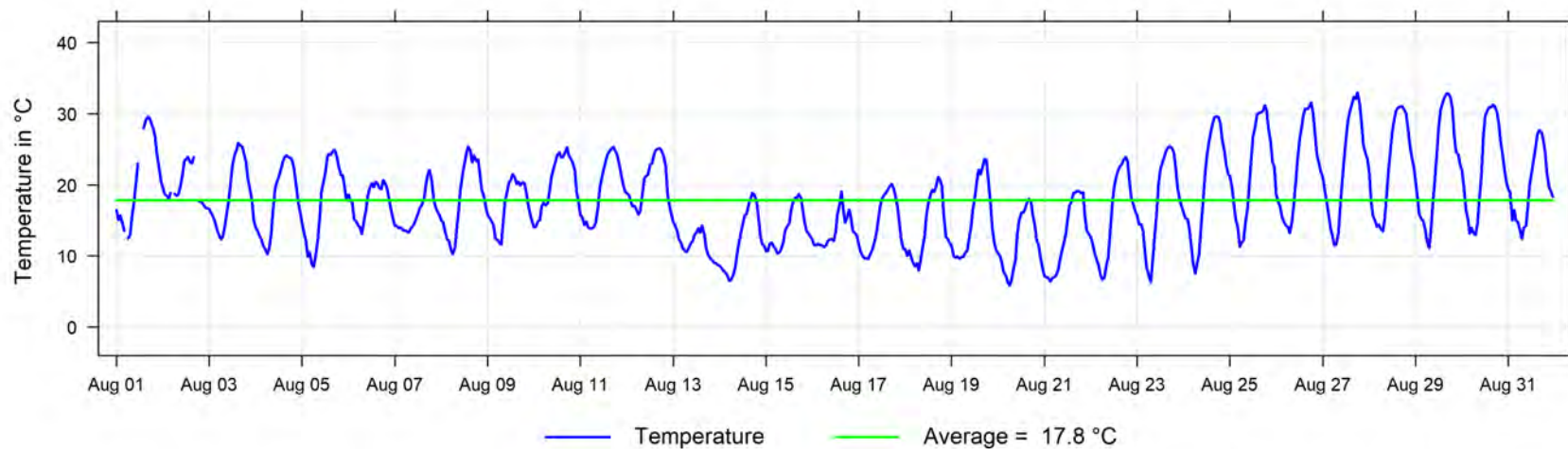
August 2025 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



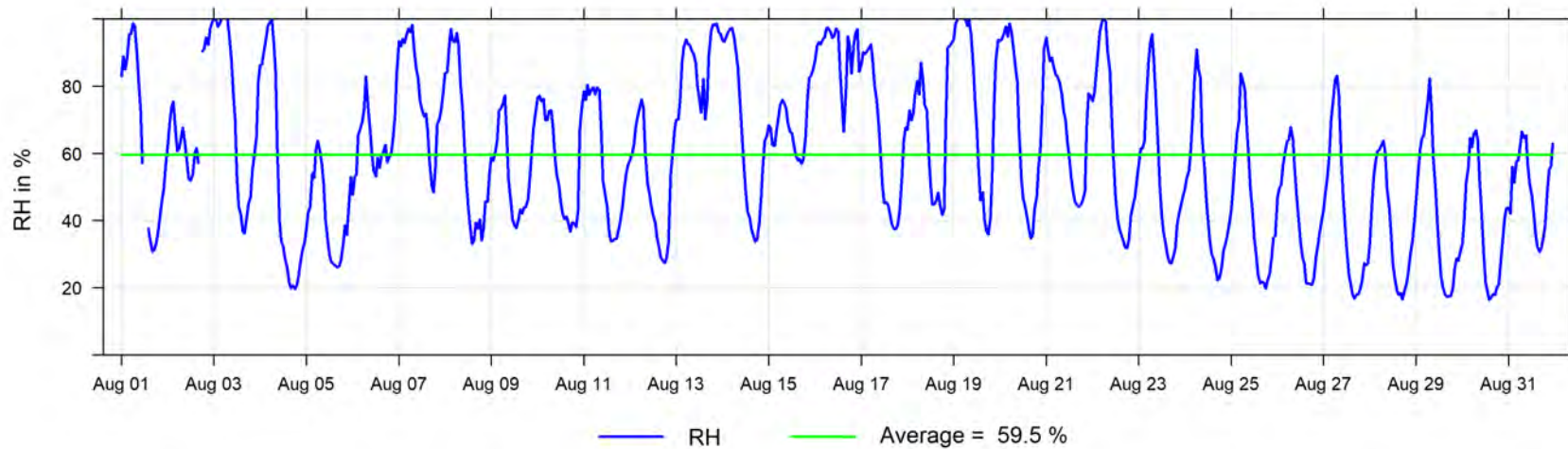
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



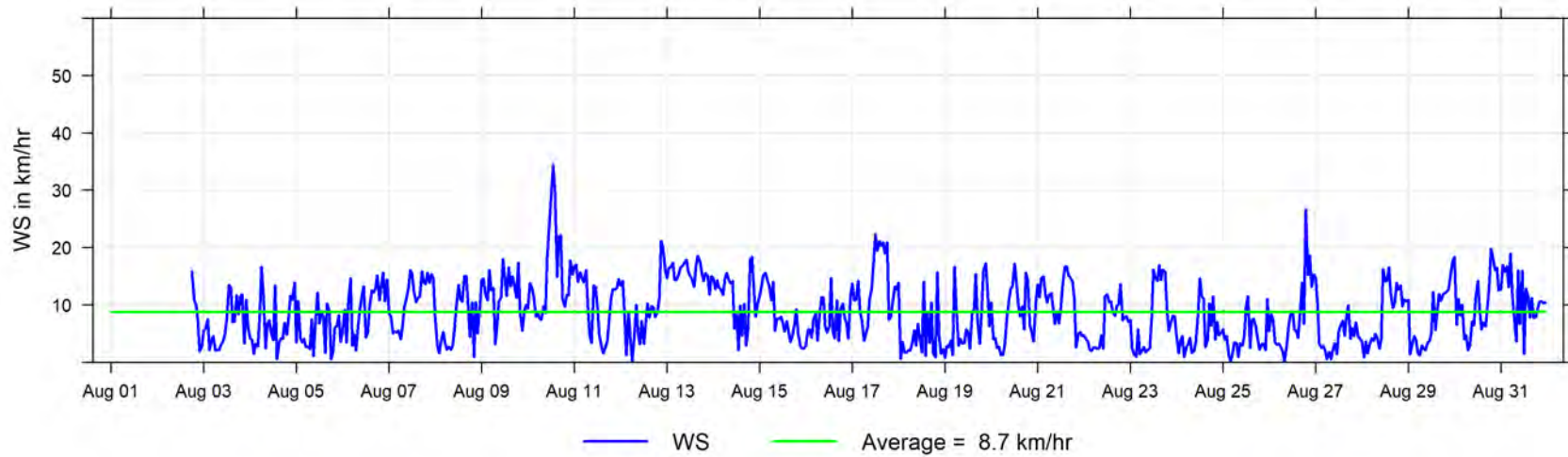
August 2025 Hourly Temperature Readings (in °C) at Beaverlodge



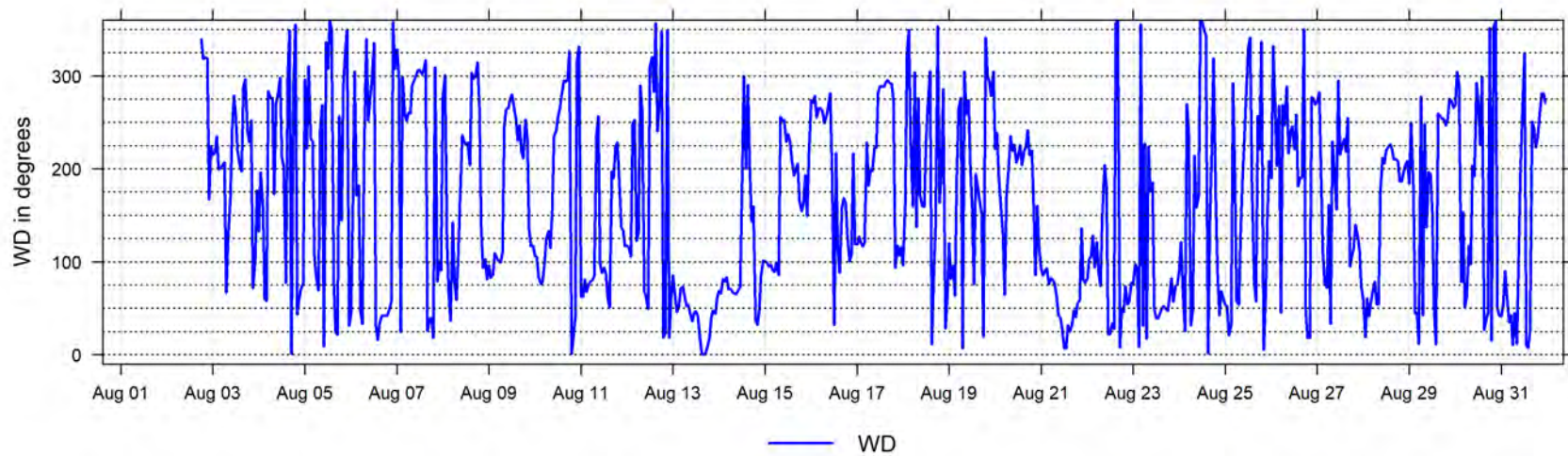
August 2025 Hourly Readings of Relative Humidity (in %) at Beaverlodge



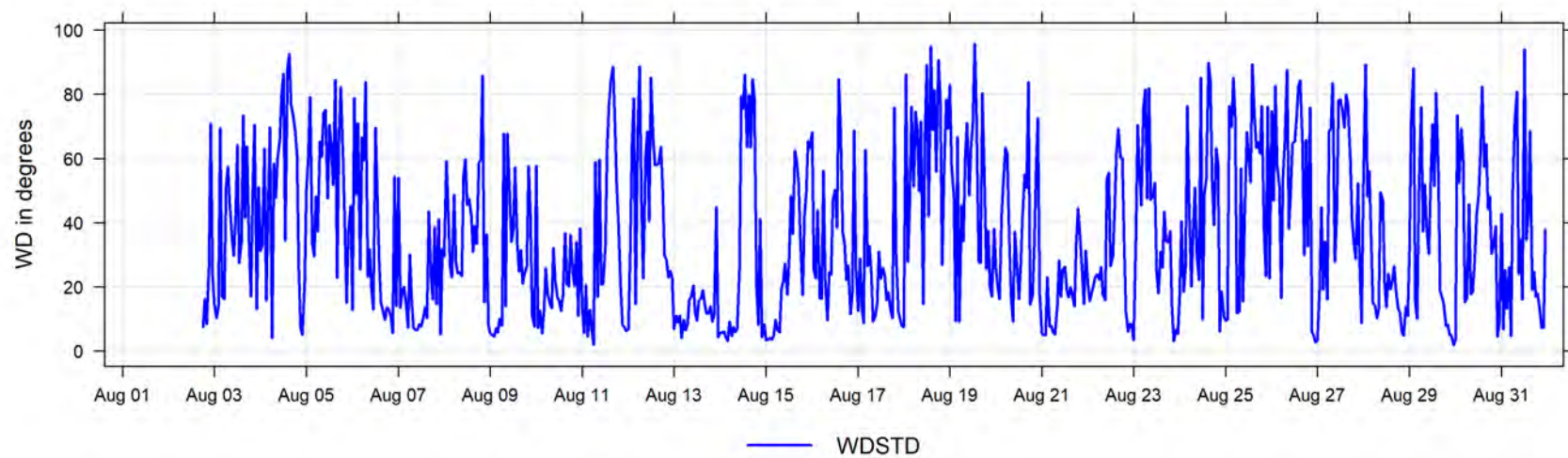
August 2025 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge



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

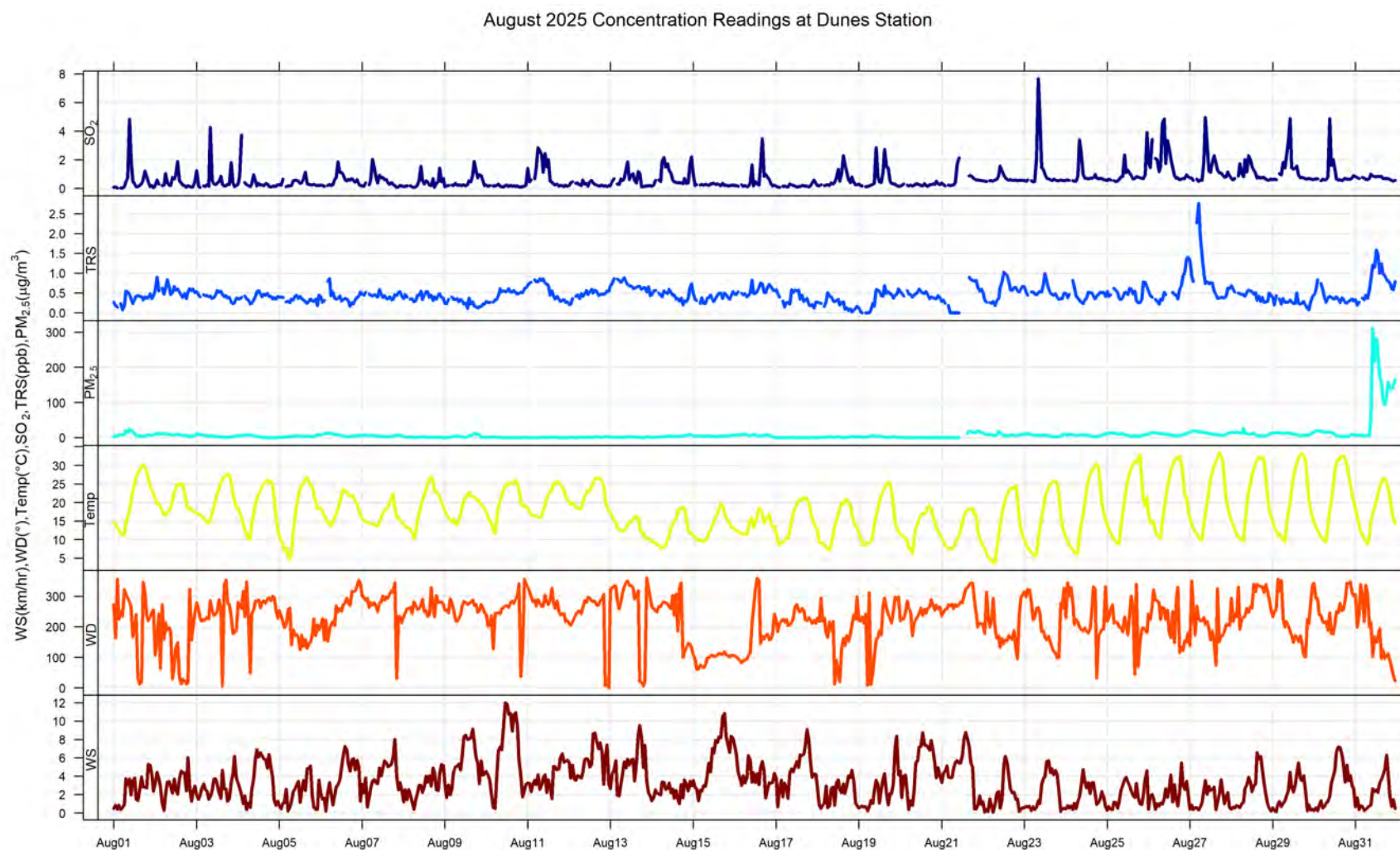


August 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

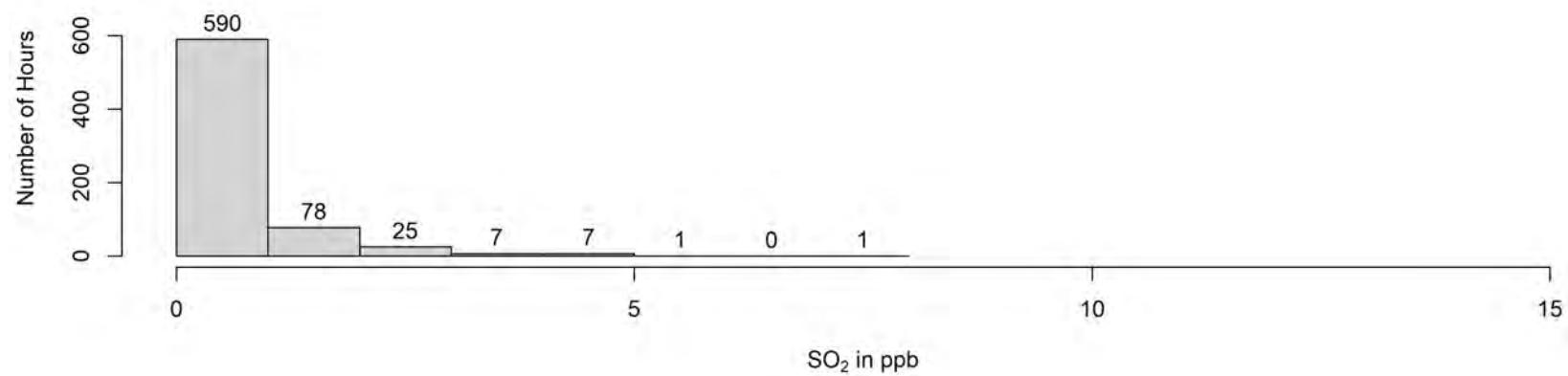
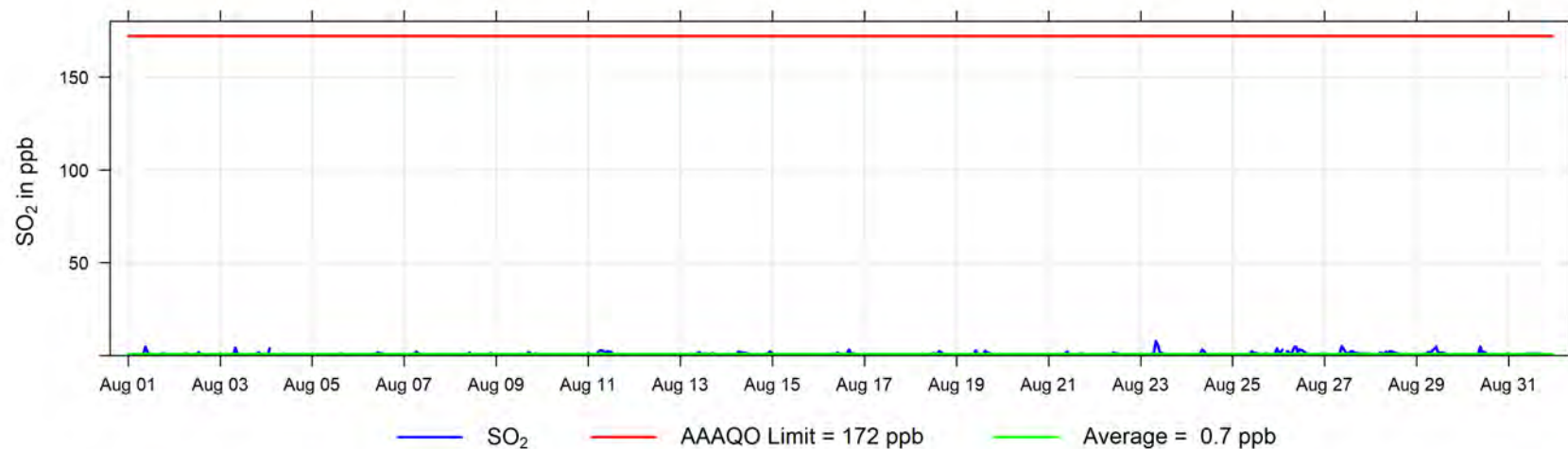


3 Dunes Charts

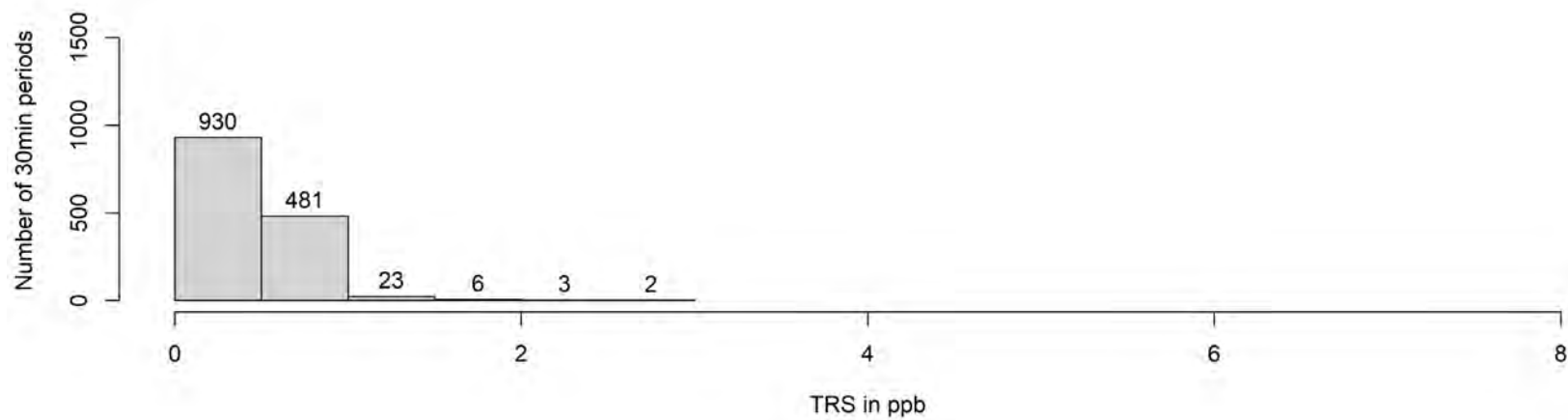
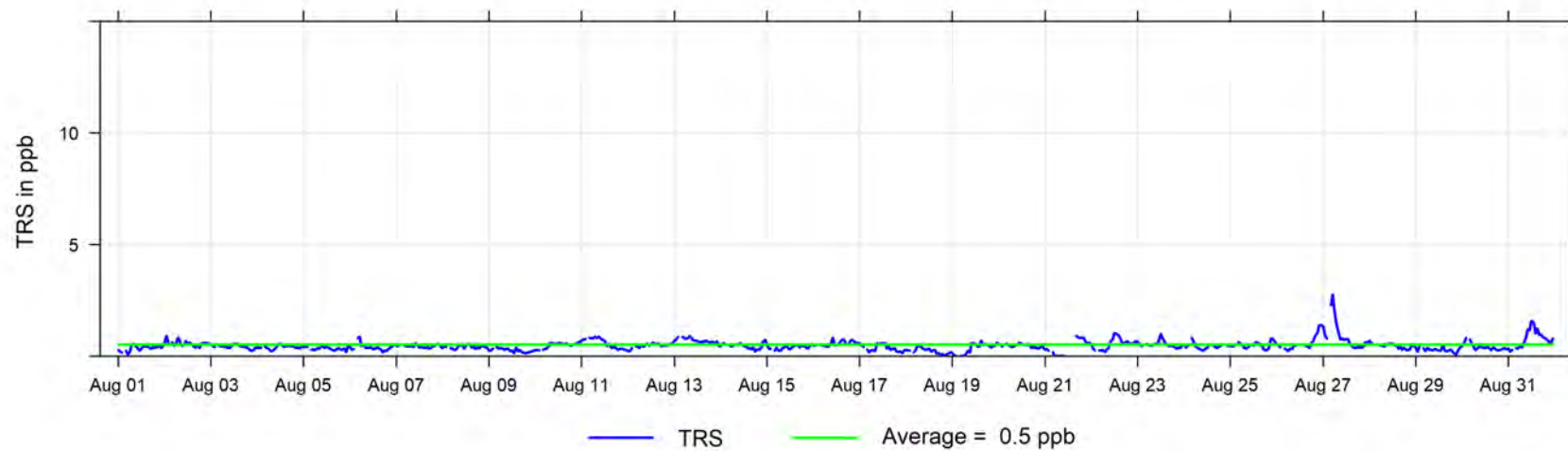
The following pages include the charts and histograms for Dunes Station



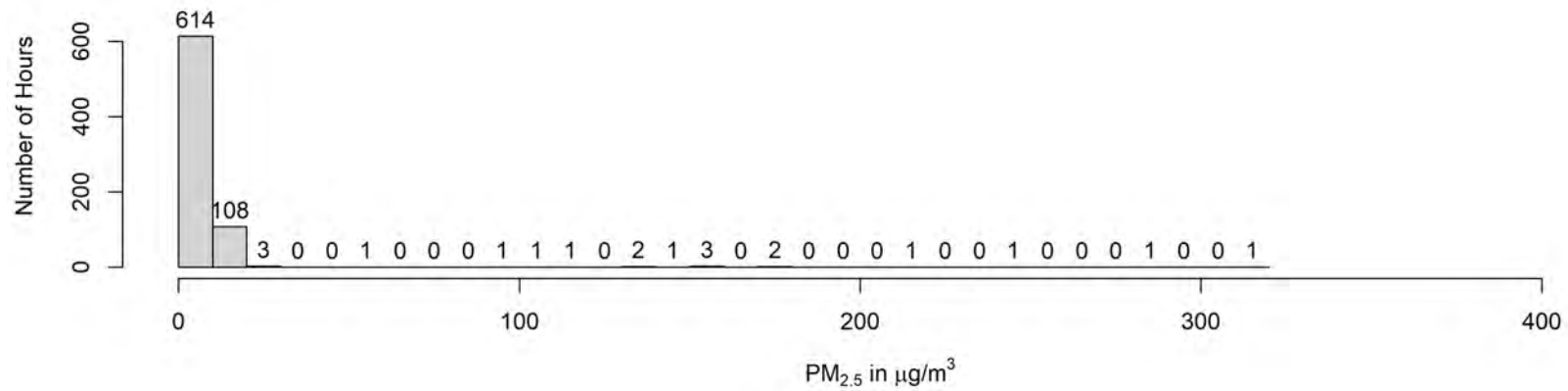
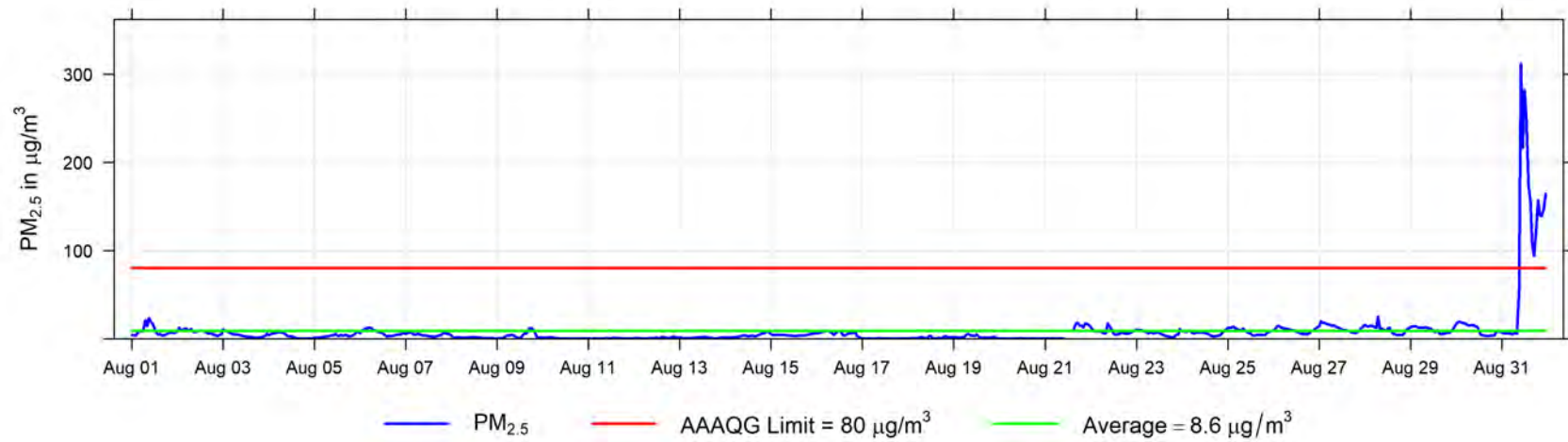
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



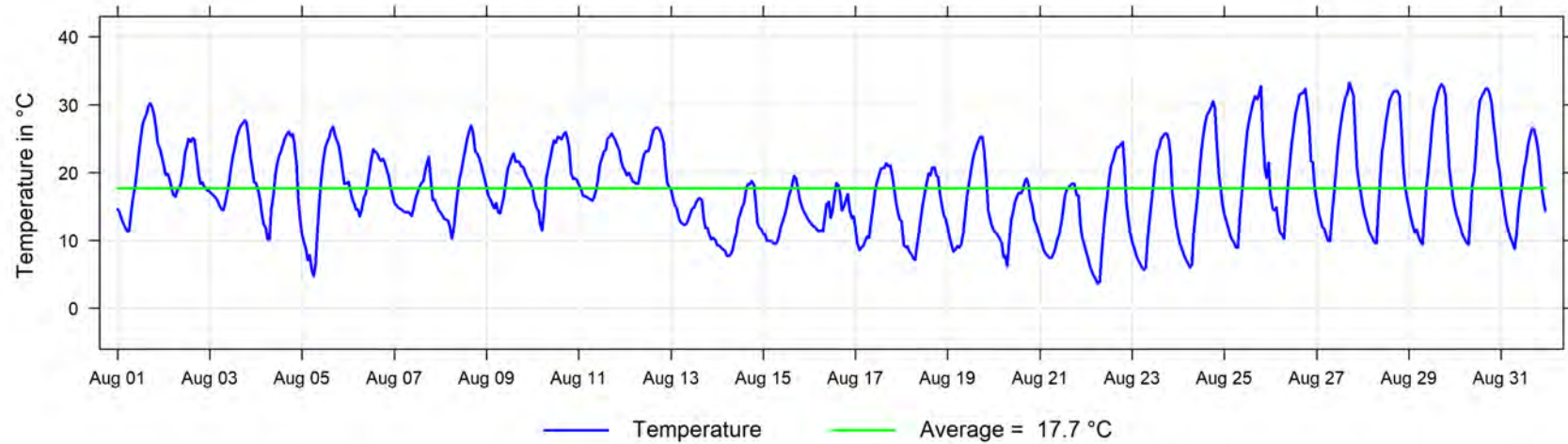
August 2025 Hourly Concentration Readings of TRS (in ppb) at Dunes



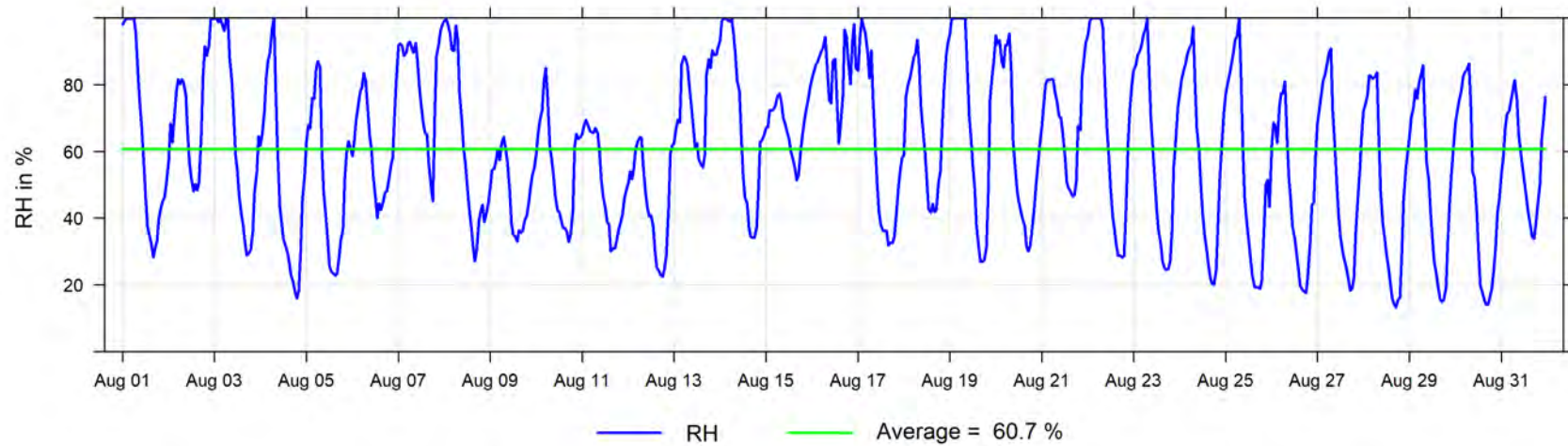
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



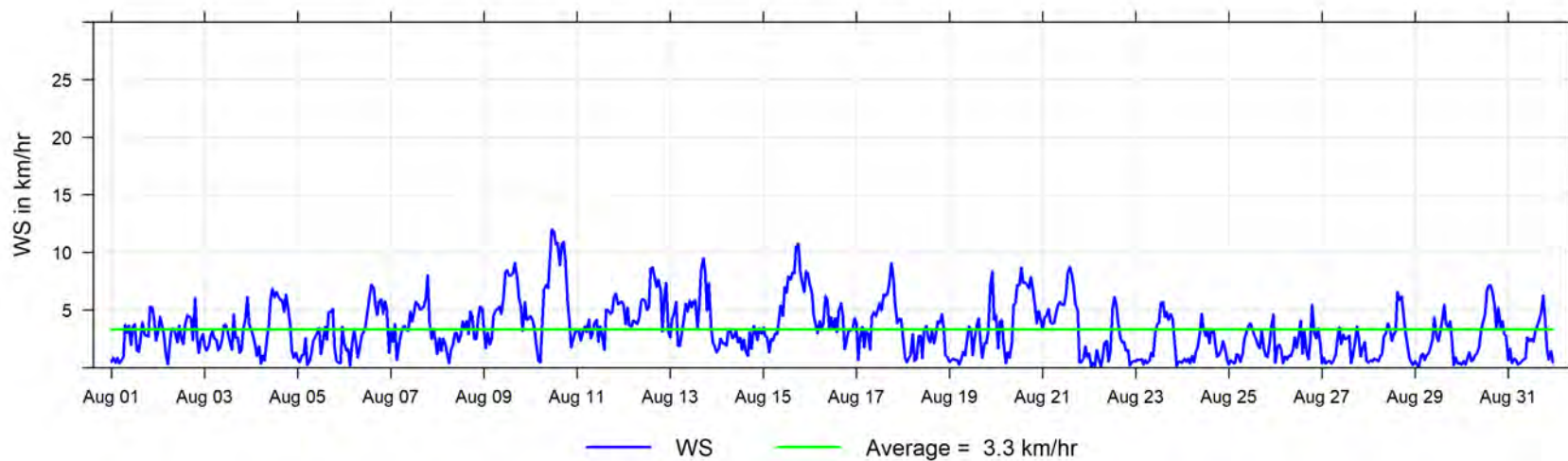
August 2025 Hourly Temperature Readings (in °C) at Dunes



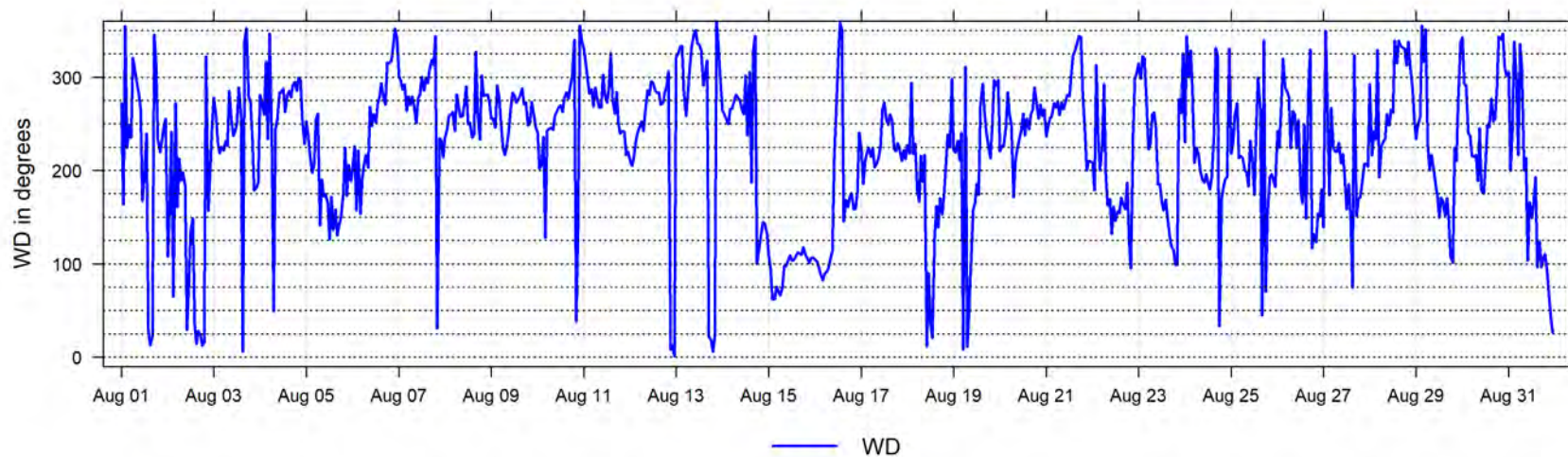
August 2025 Hourly Readings of Relative Humidity (in %) at Dunes



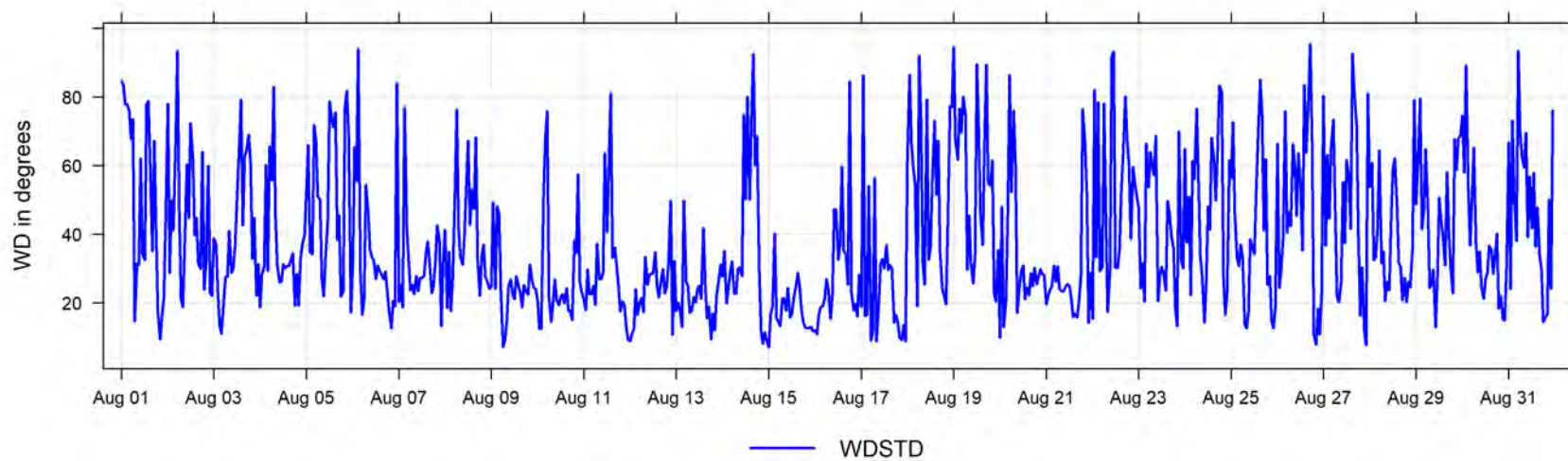
August 2025 Hourly Readings of Wind Speed (in km/hr) at Dunes

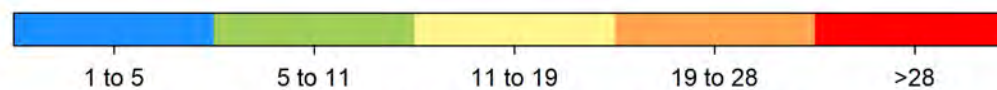
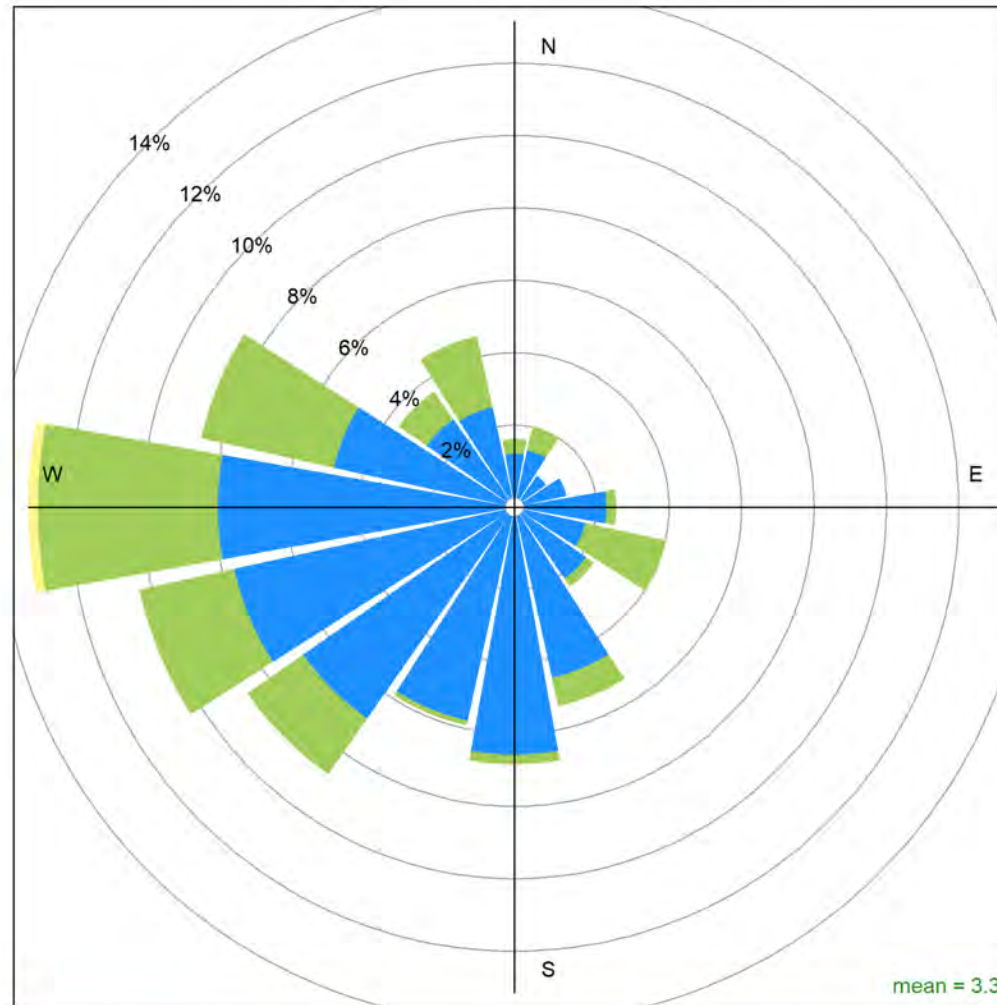


August 2025 Hourly Readings of Wind Direction (in degrees) at Dunes



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





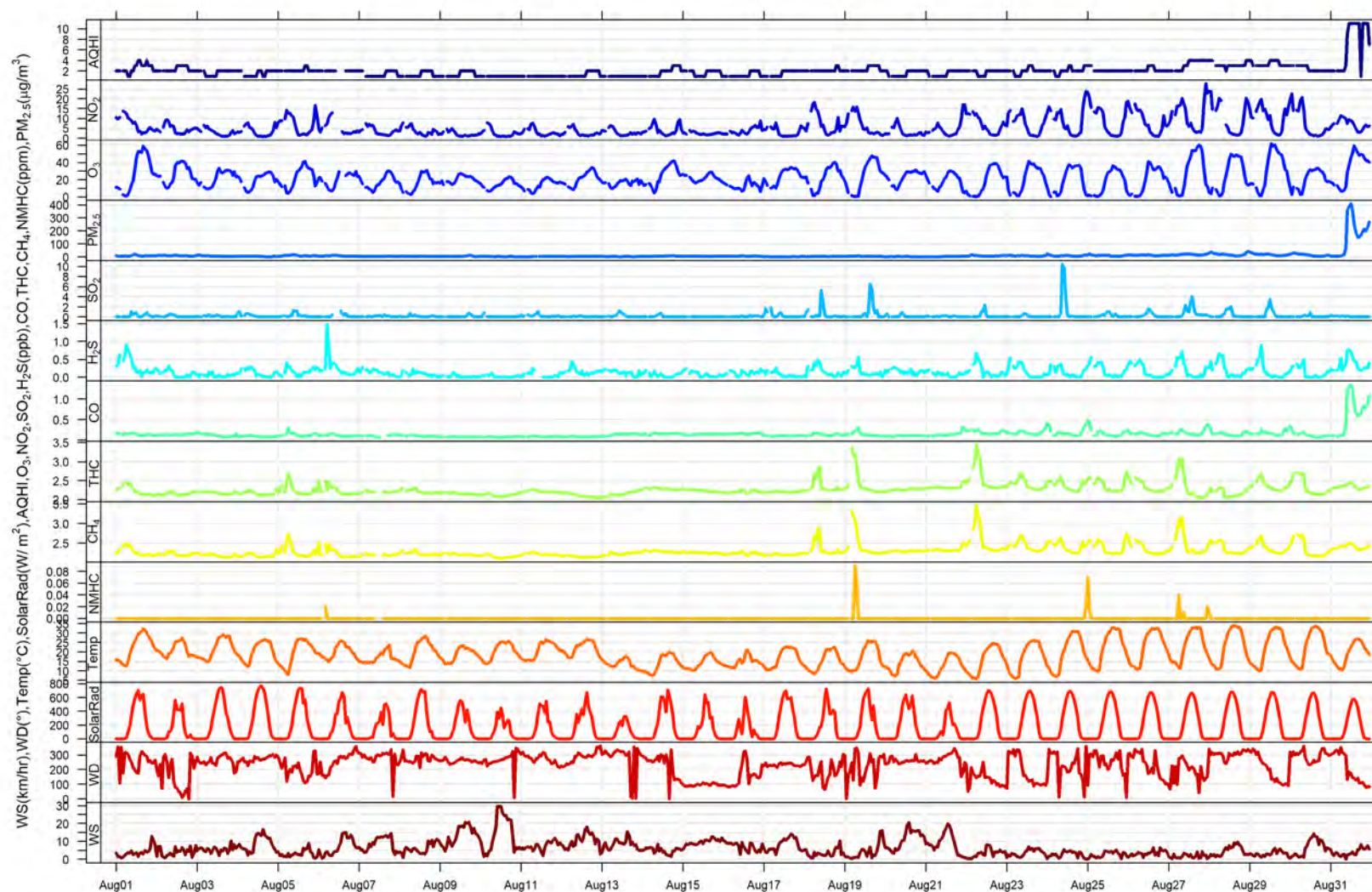
Dunes August 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 18.1 %

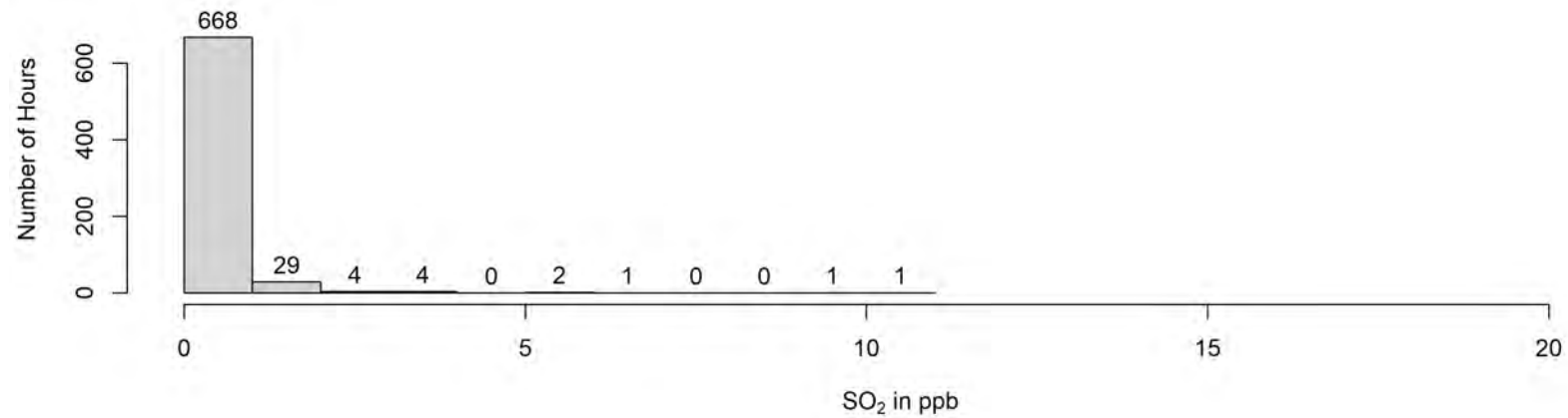
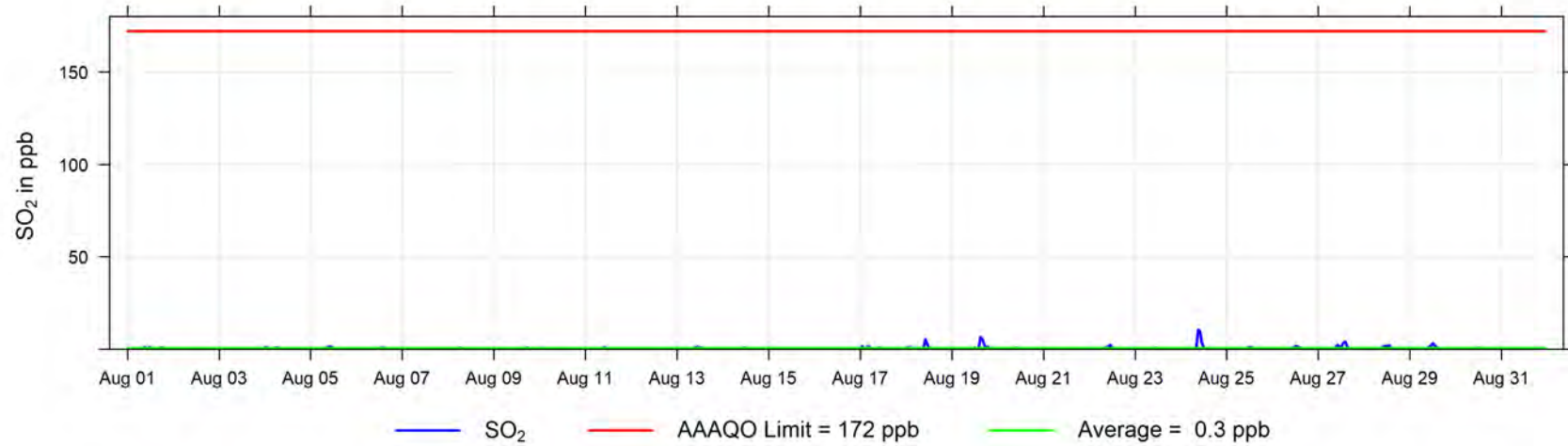
4 Grande Prairie - Henry Pirker Charts

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

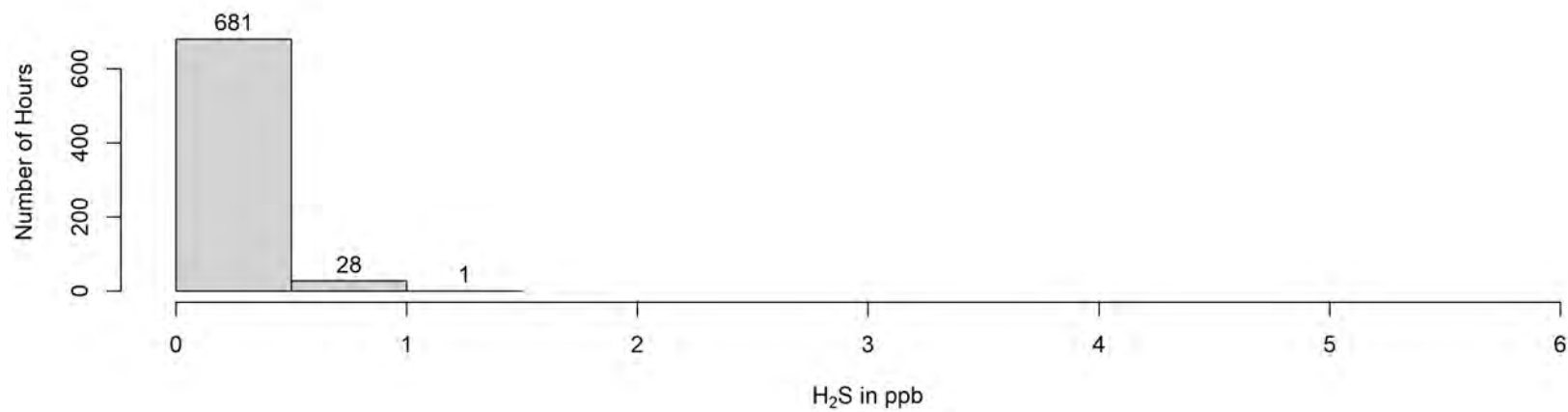
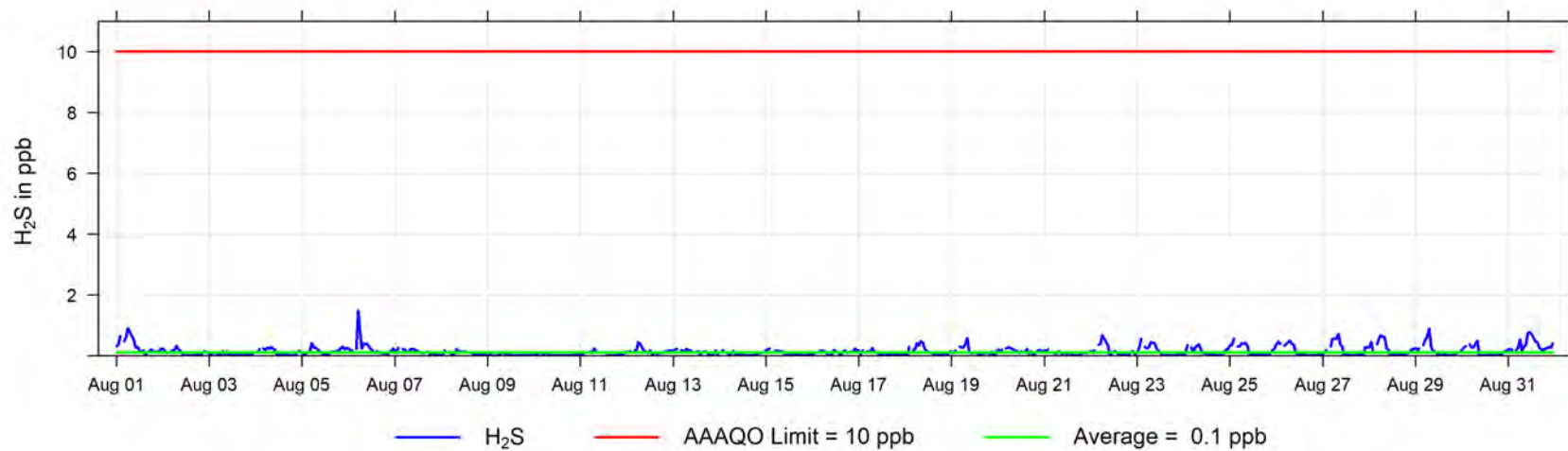
August 2025 Concentration Readings at Henry Pirker Station



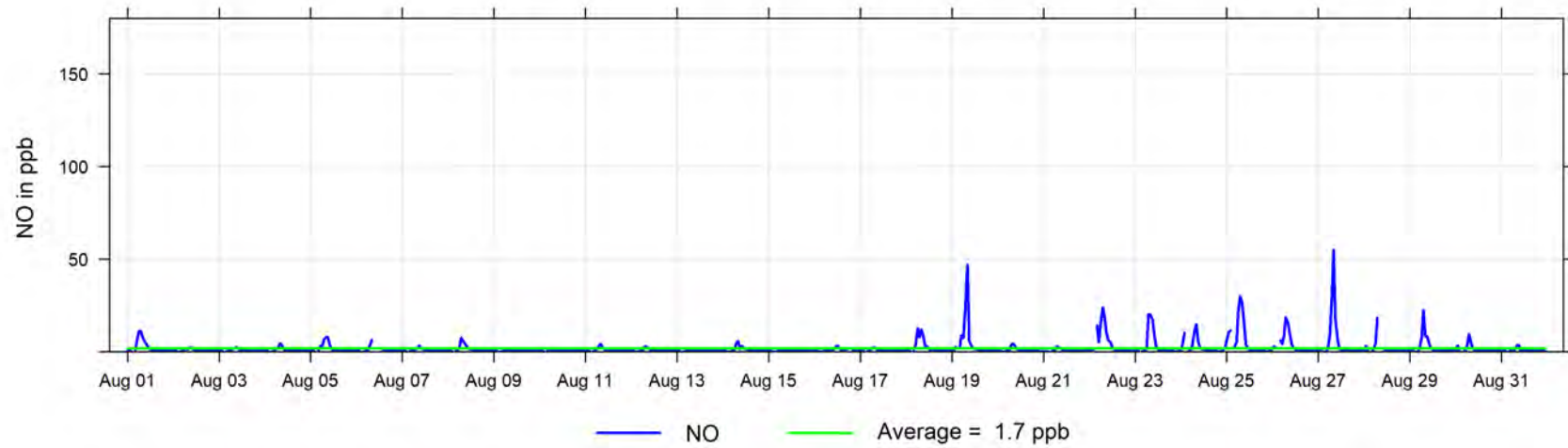
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



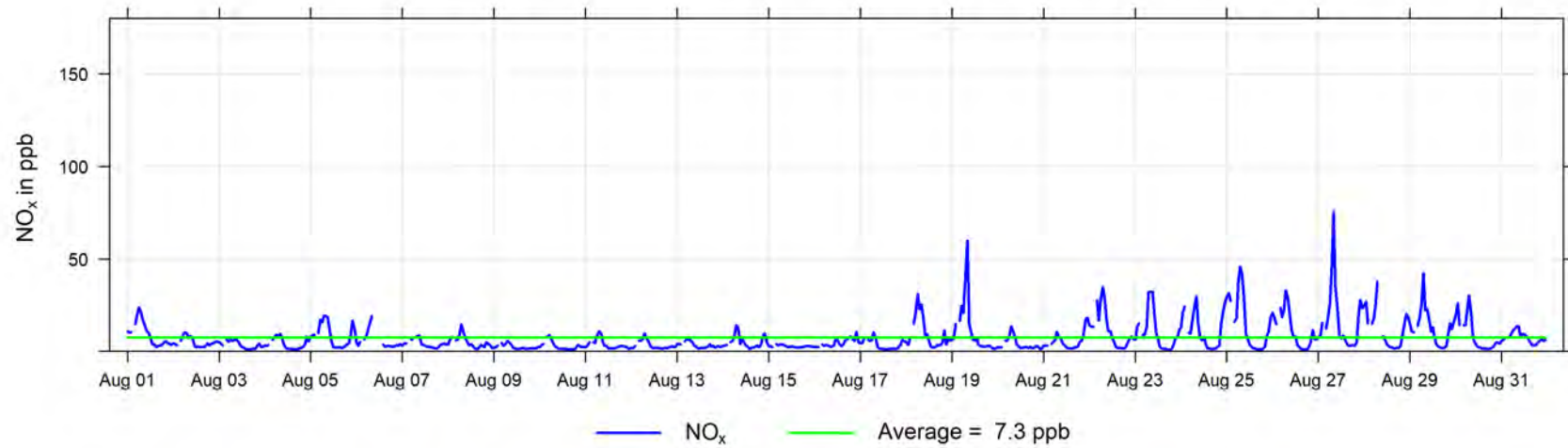
August 2025 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



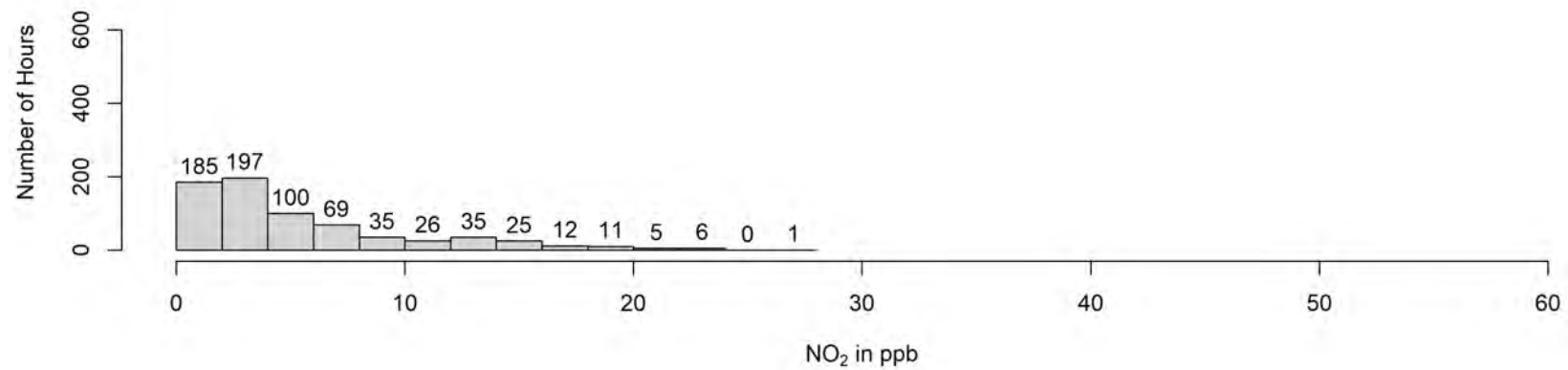
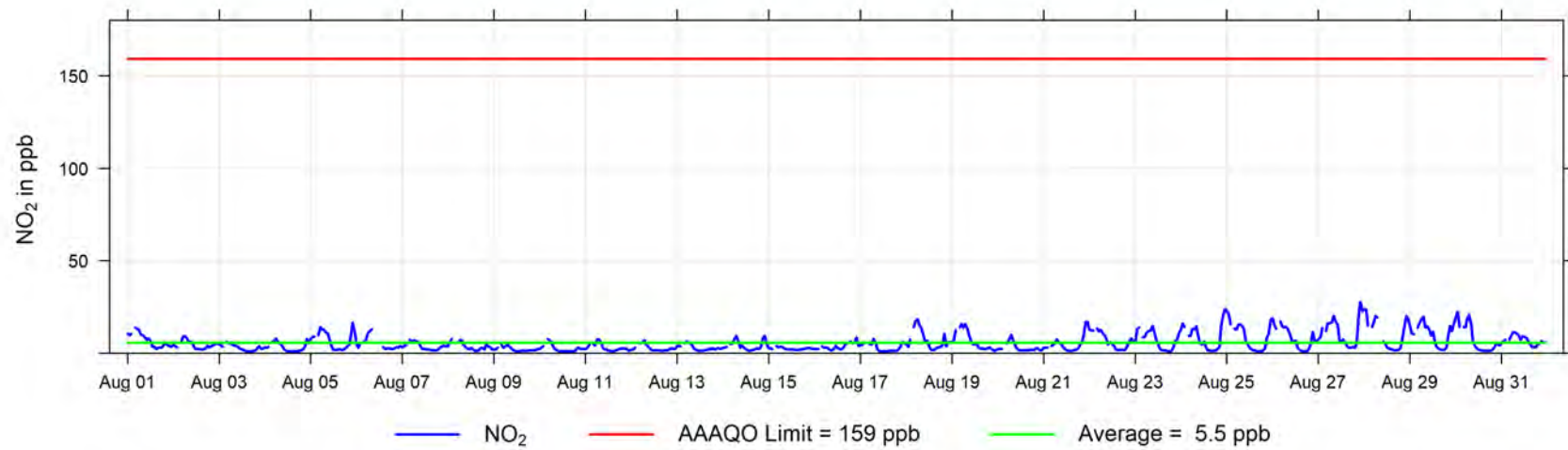
August 2025 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



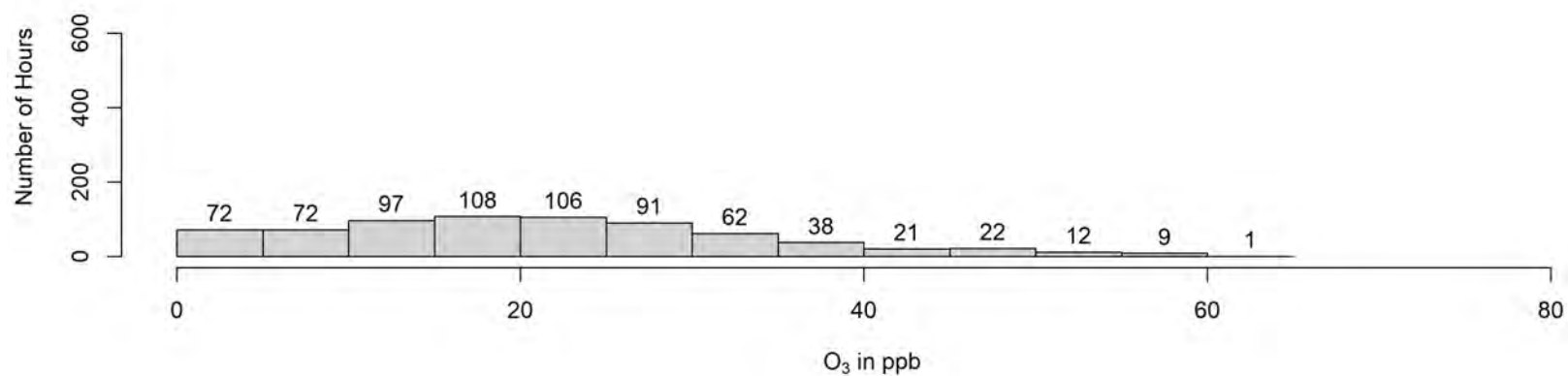
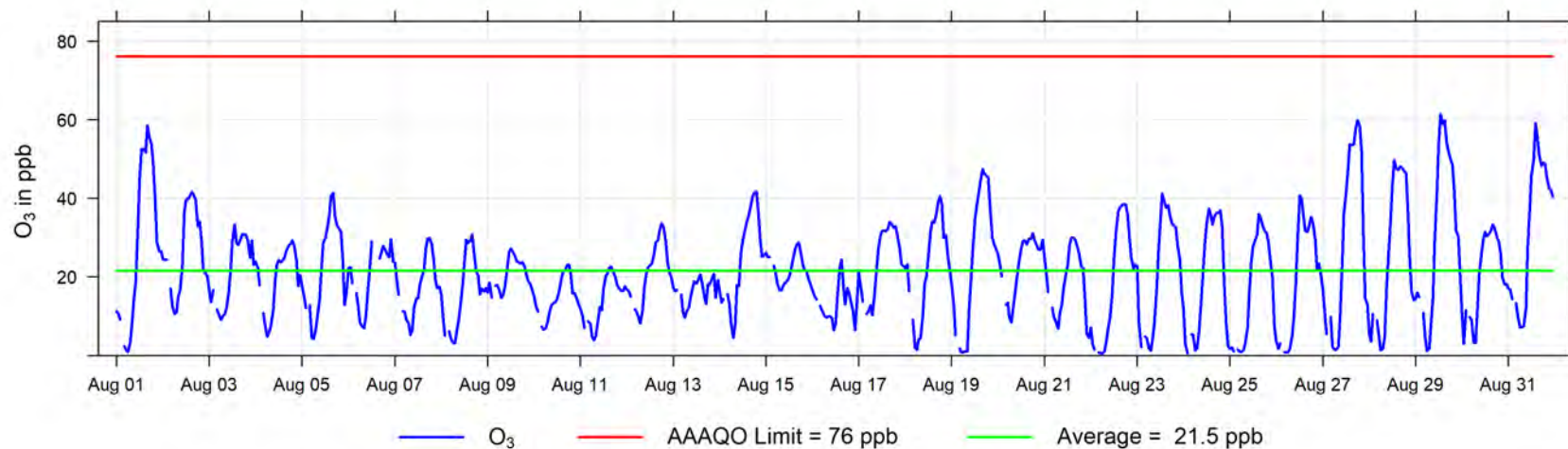
August 2025 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



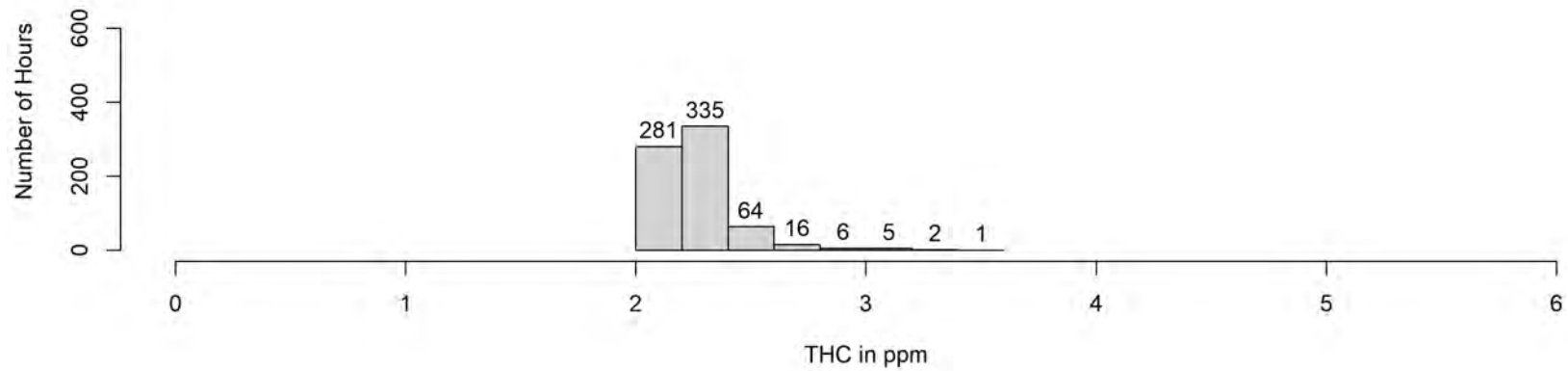
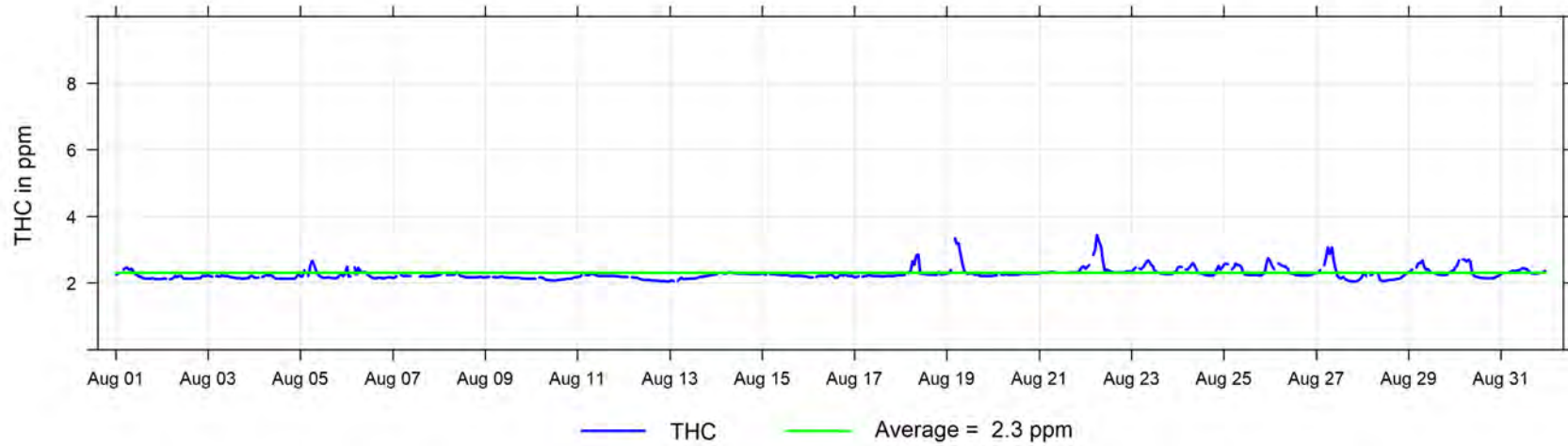
August 2025 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



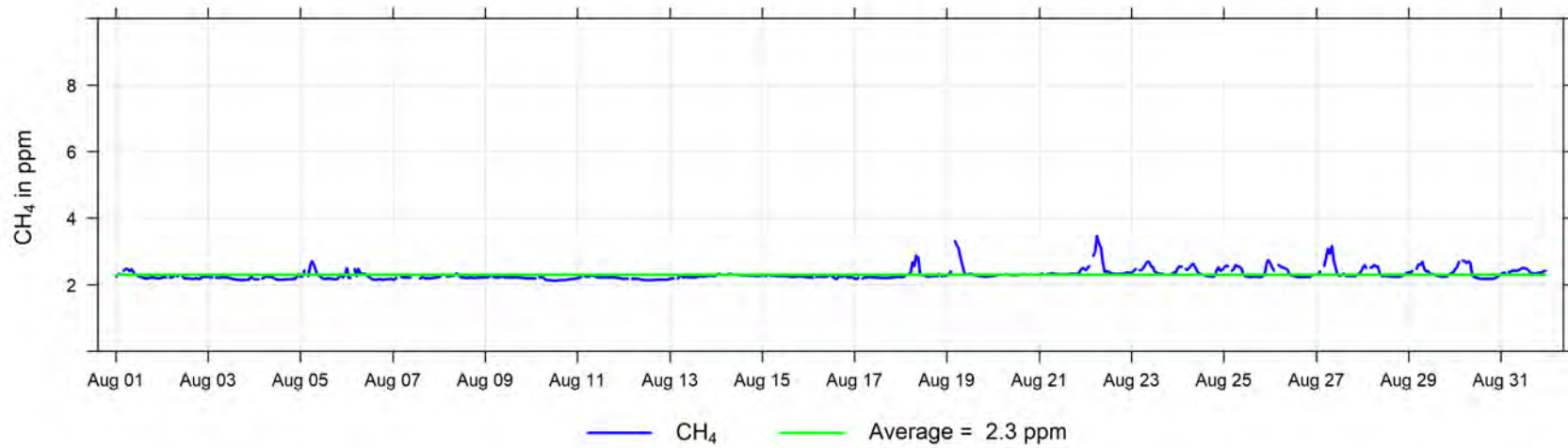
August 2025 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



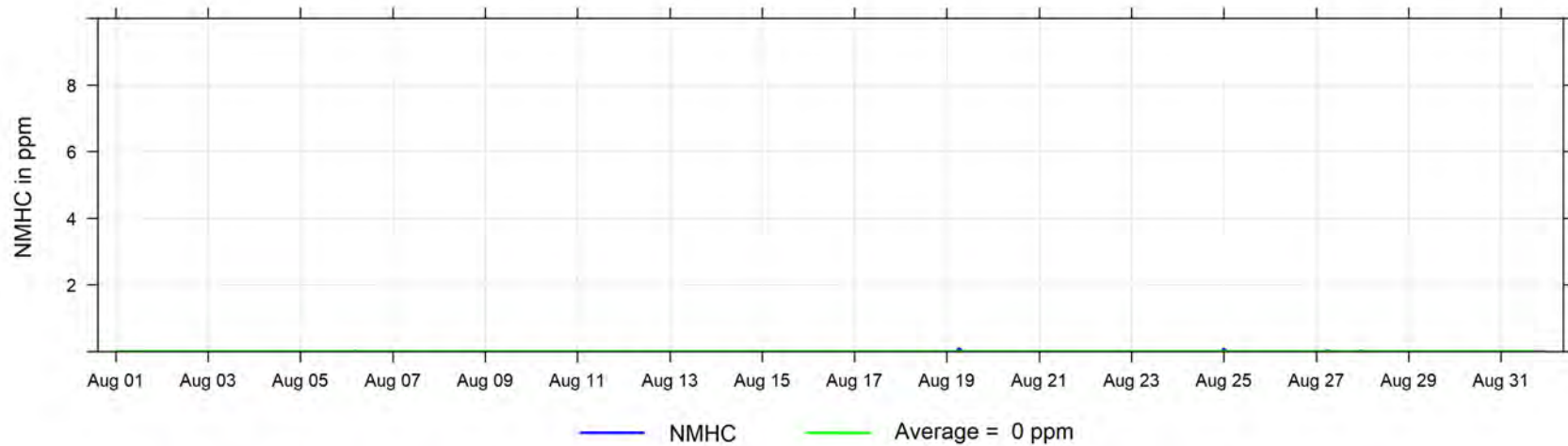
August 2025 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



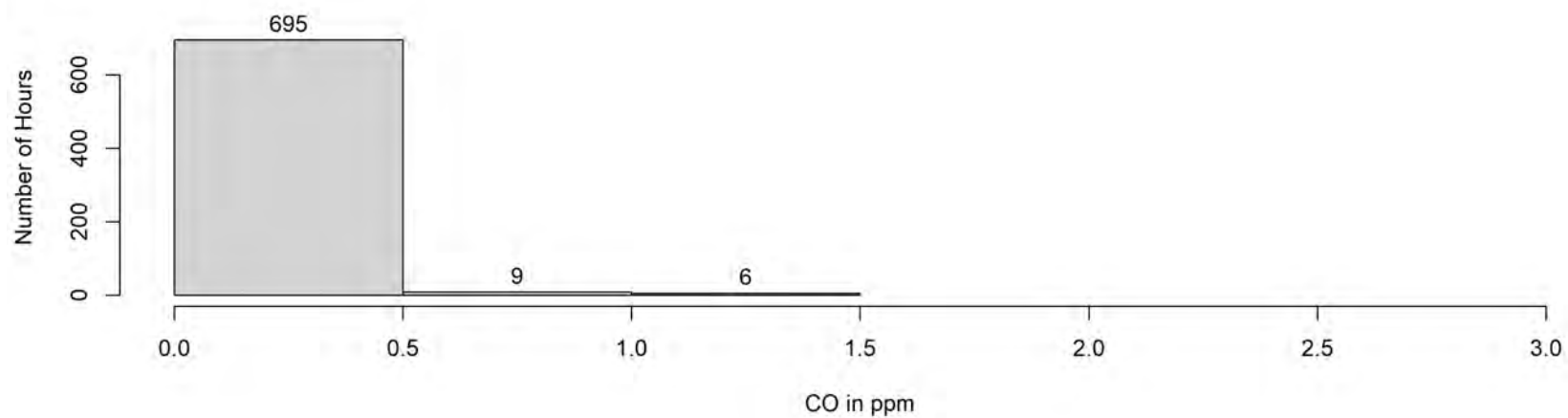
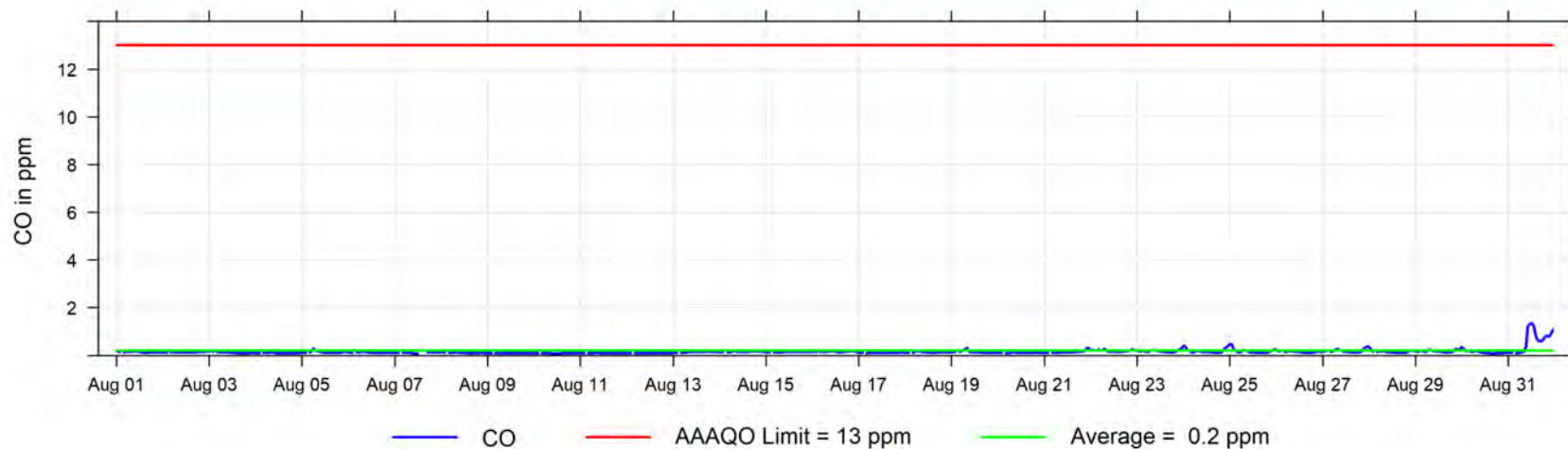
August 2025 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



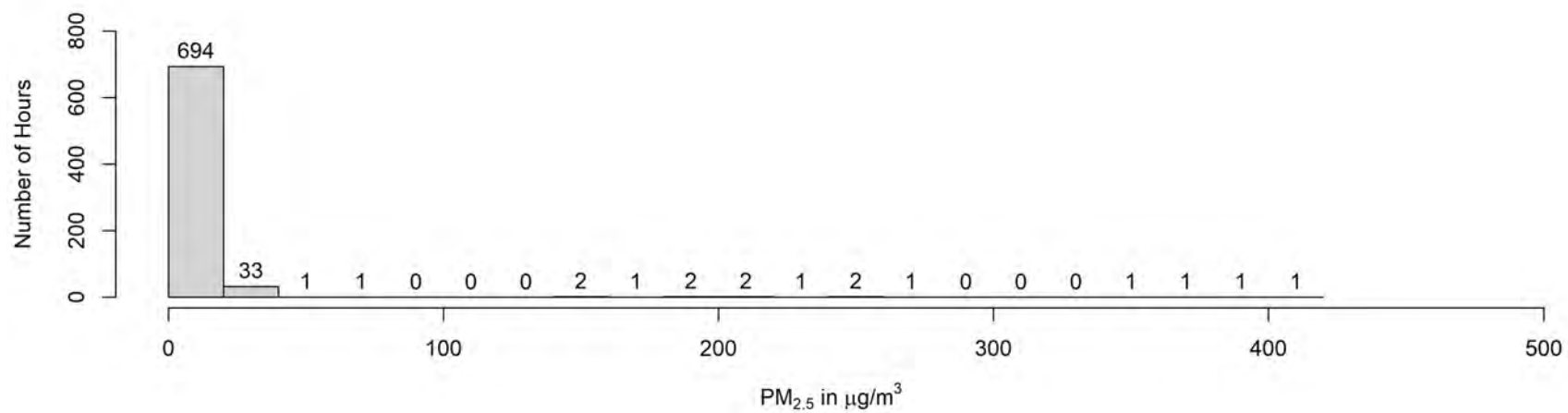
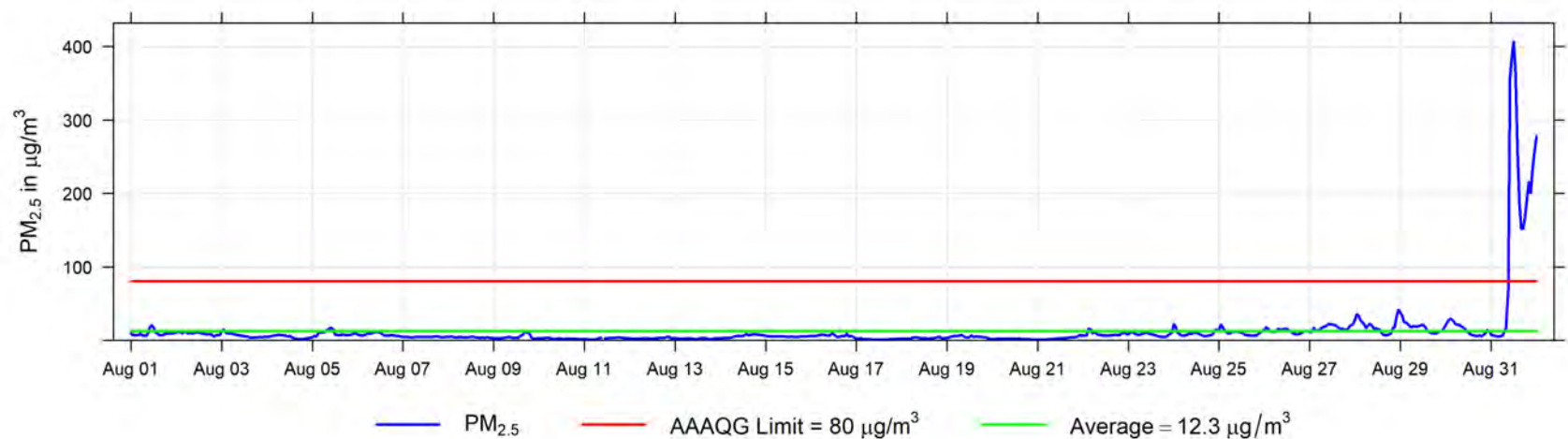
August 2025 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



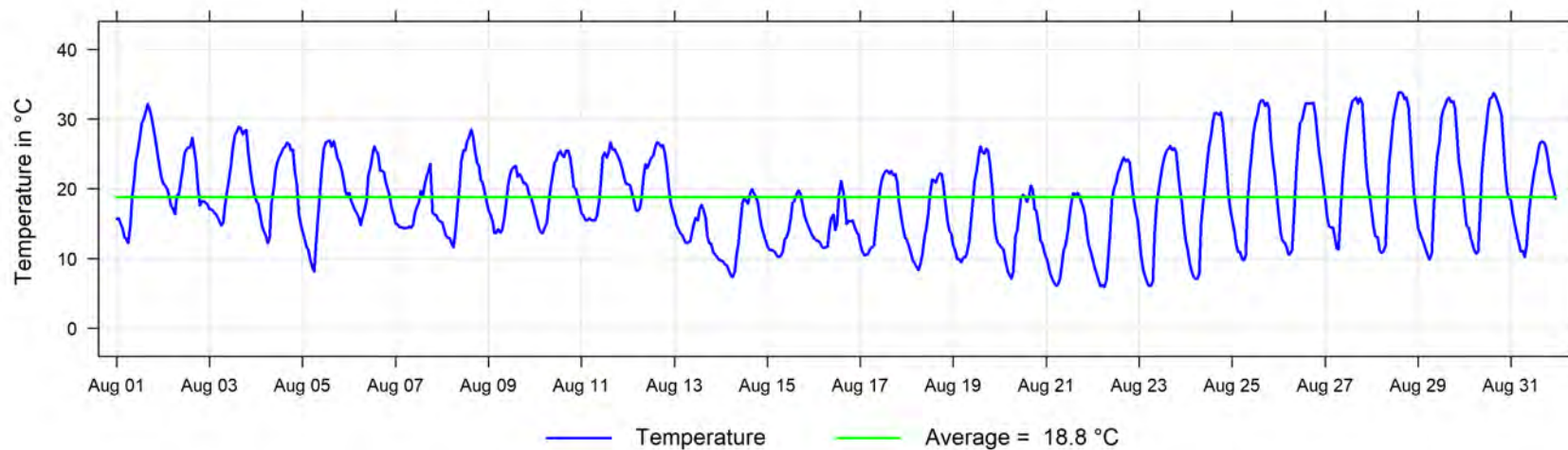
August 2025 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



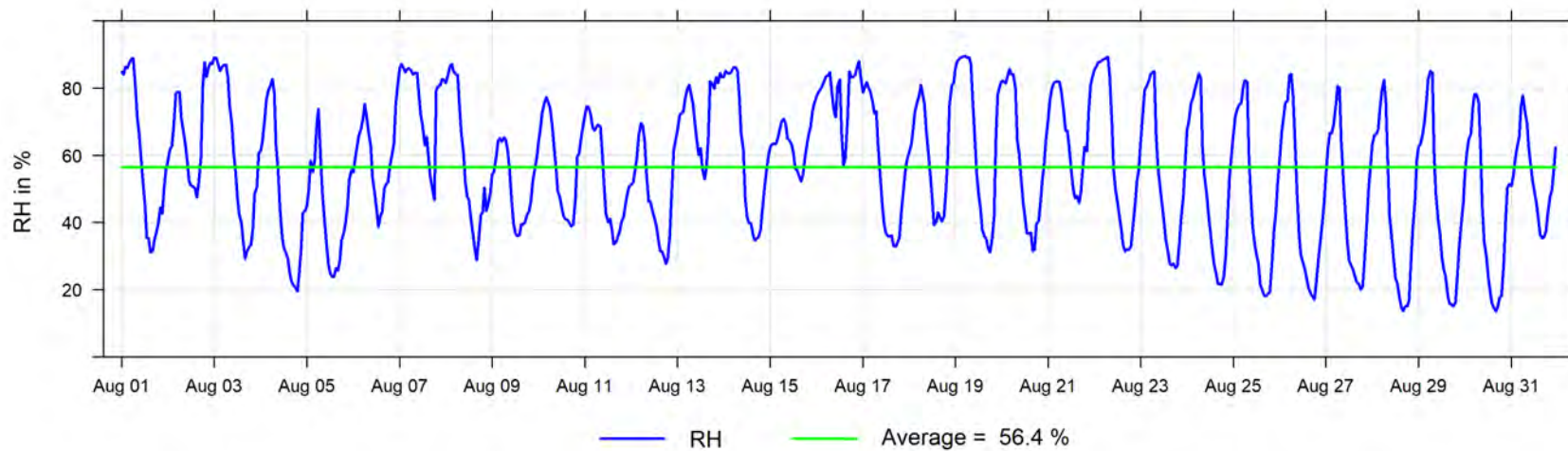
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



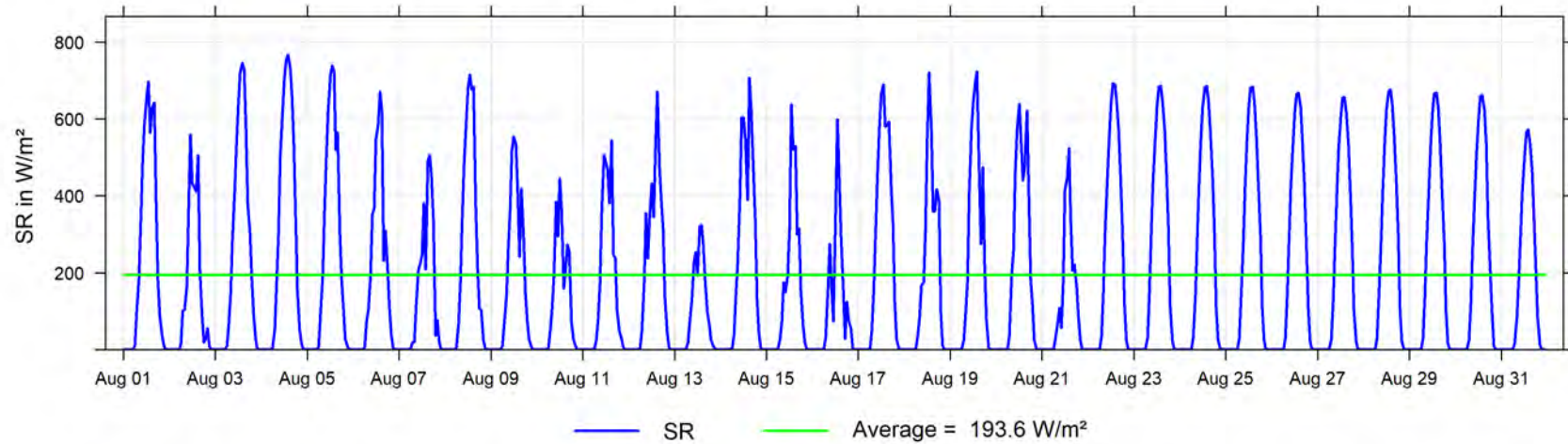
August 2025 Hourly Temperature Readings (in °C) at Henry Pirker



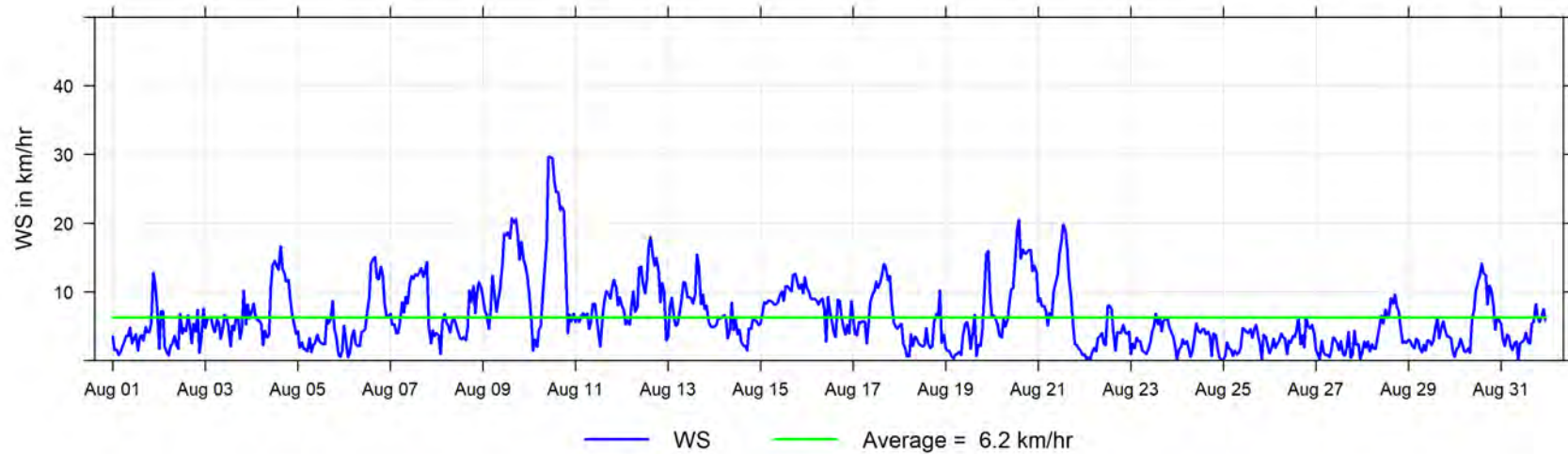
August 2025 Hourly Readings of Relative Humidity (in %) at Henry Pirker



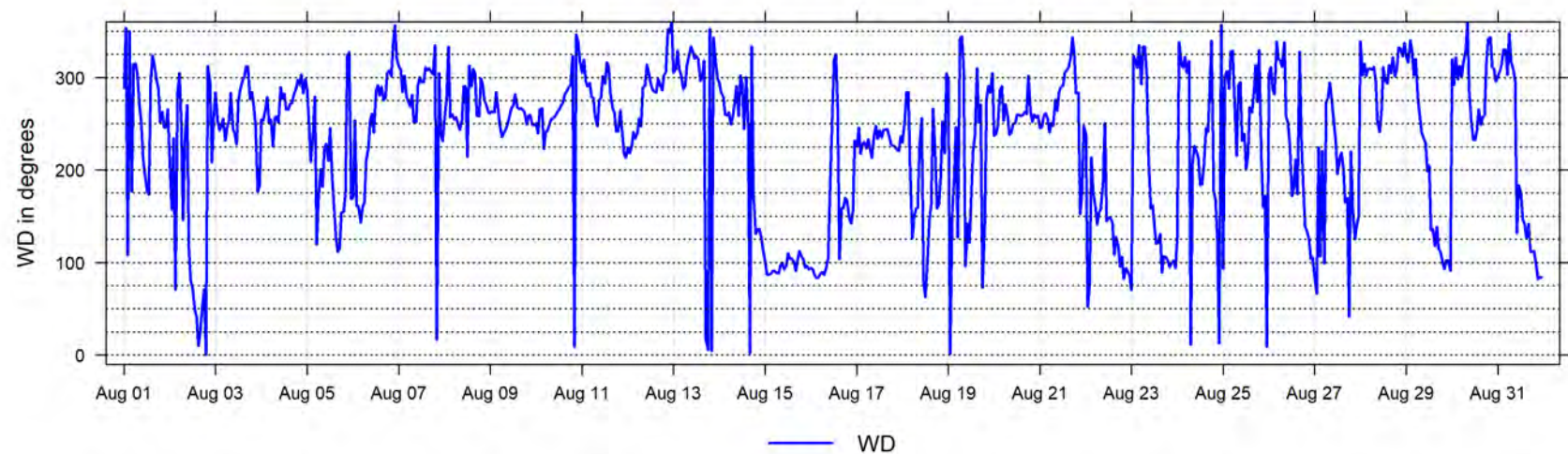
August 2025 Hourly Readings of Solar Radiation (in W/m^2) at Henry Pirker



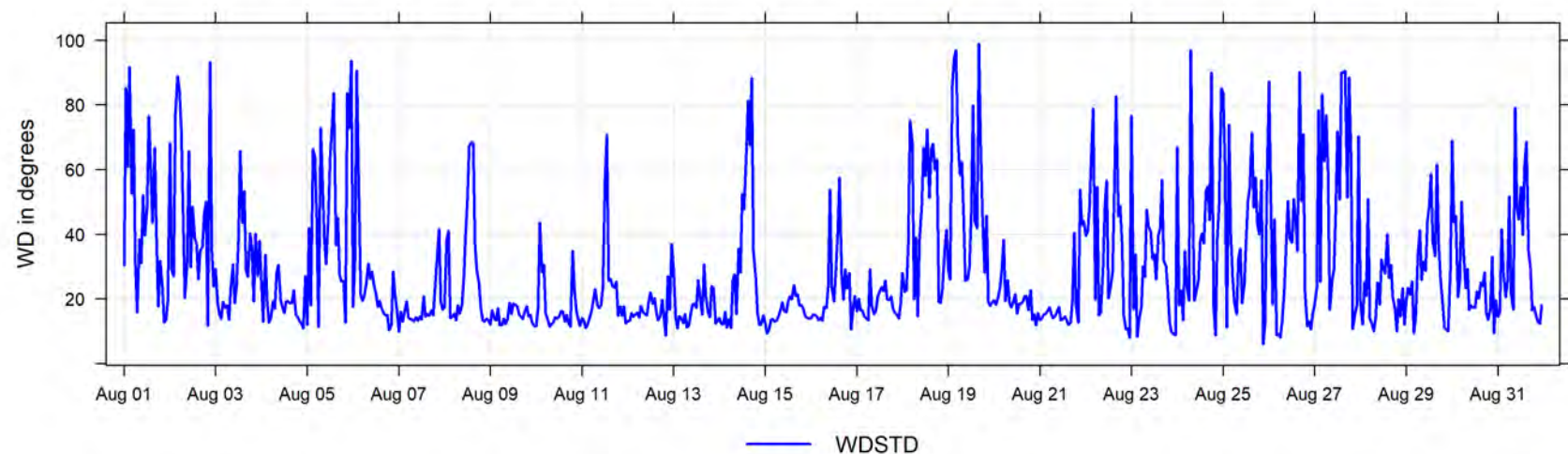
August 2025 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

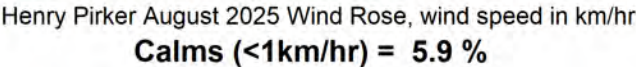


August 2025 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



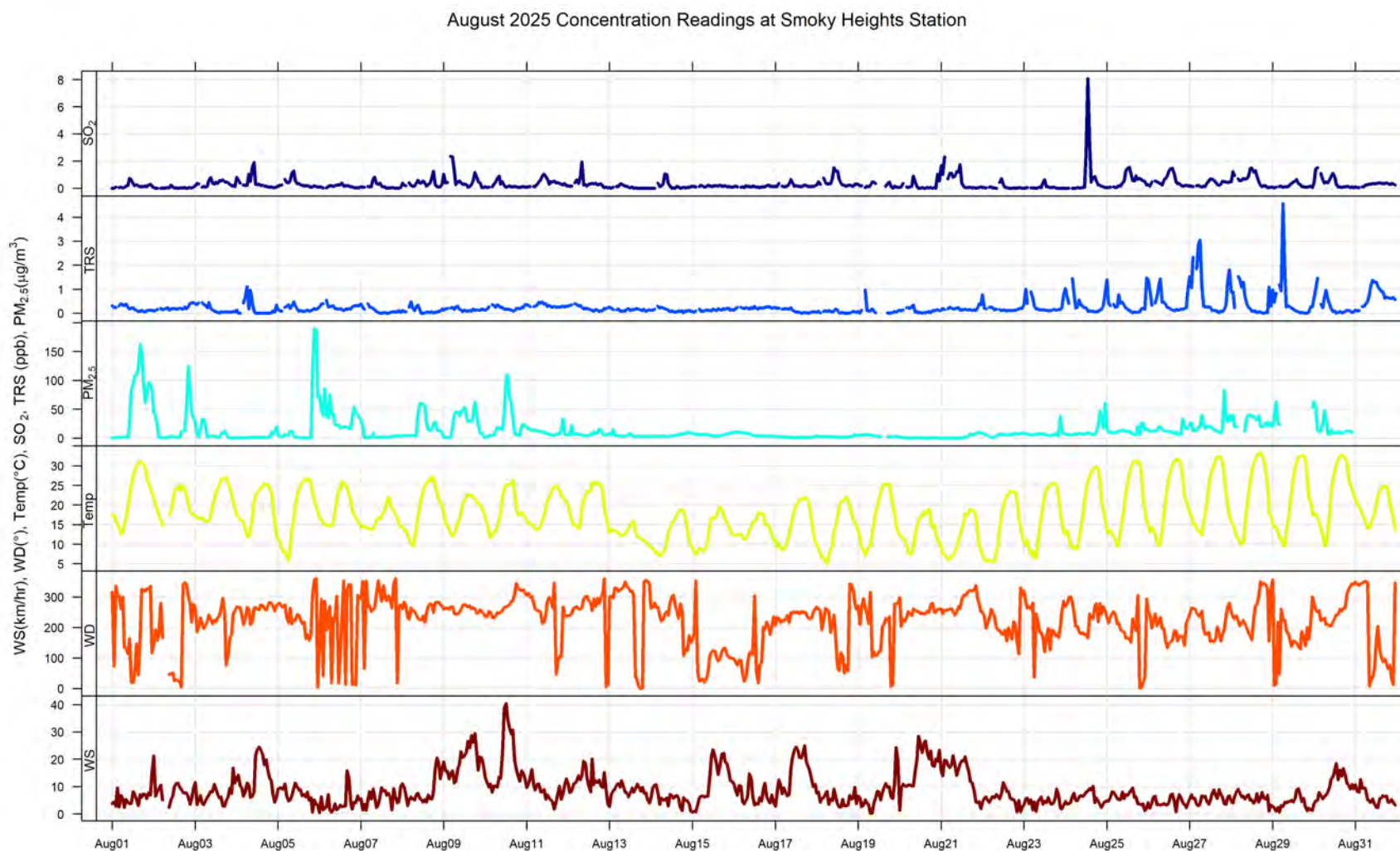
August 2025 Hourly Readings of Wind Direction Standarded Deviation (in degrees) at Henry Pirker



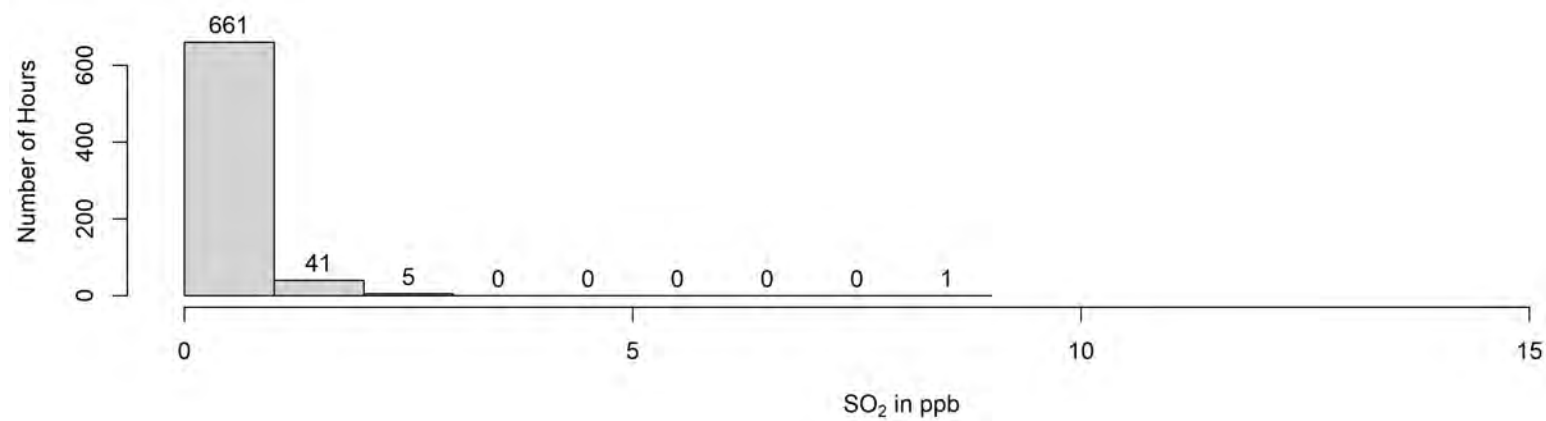
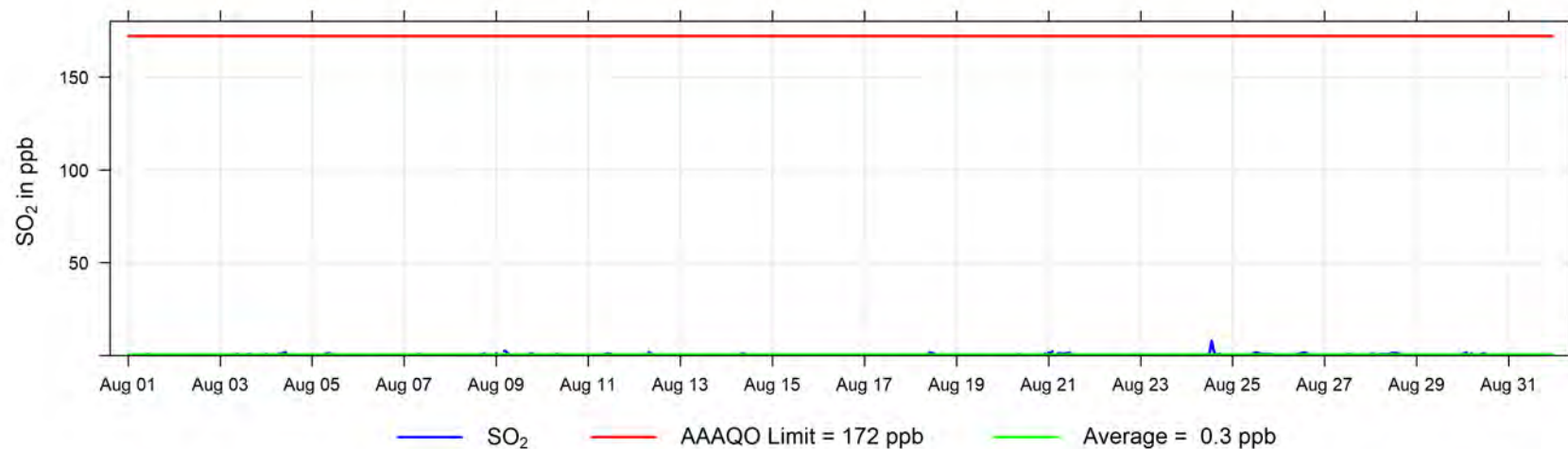


5 Smoky Heights Charts

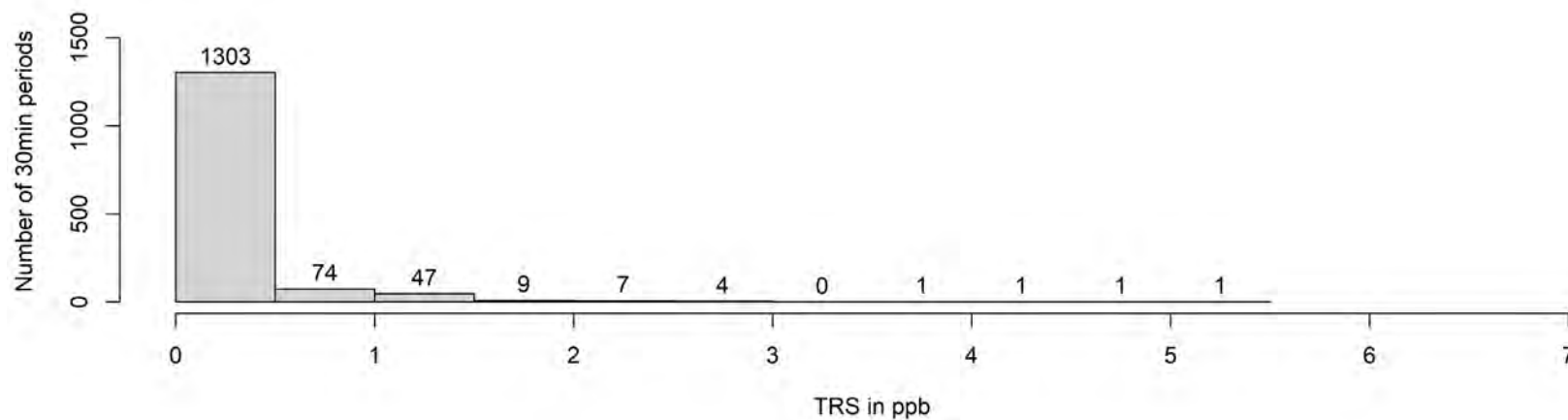
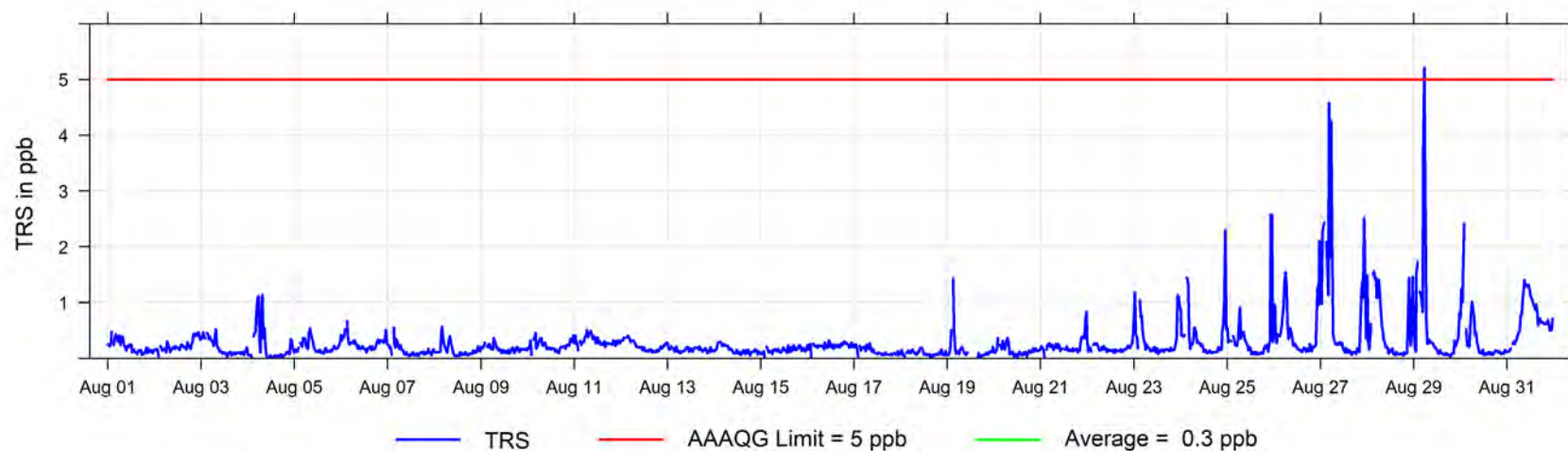
The following pages include the charts and histograms for Smoky Heights Station



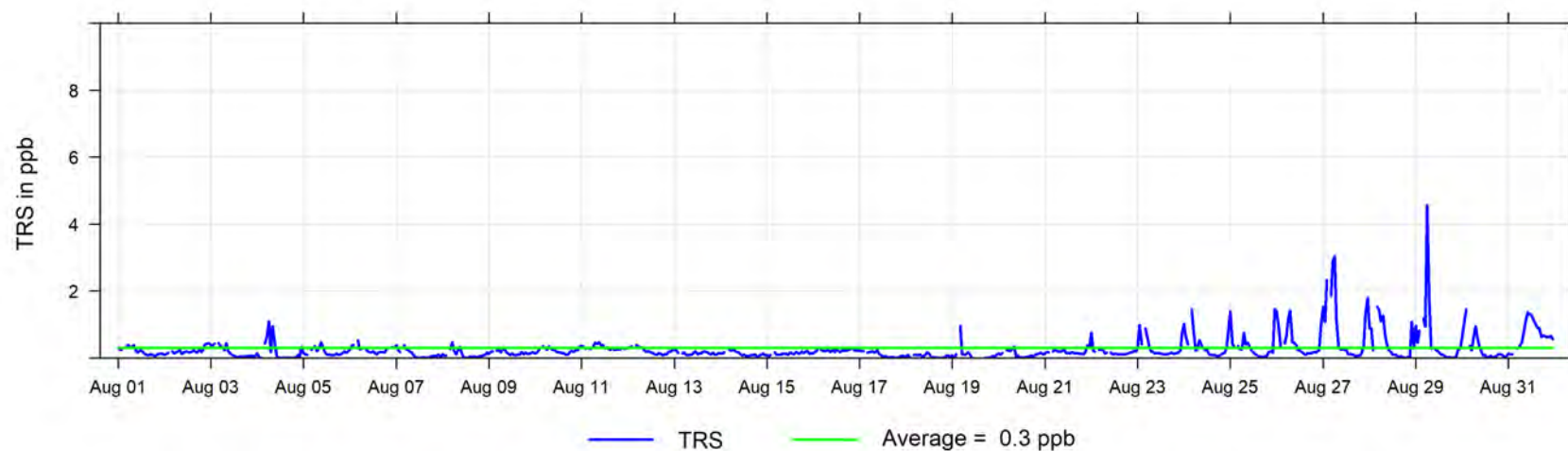
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



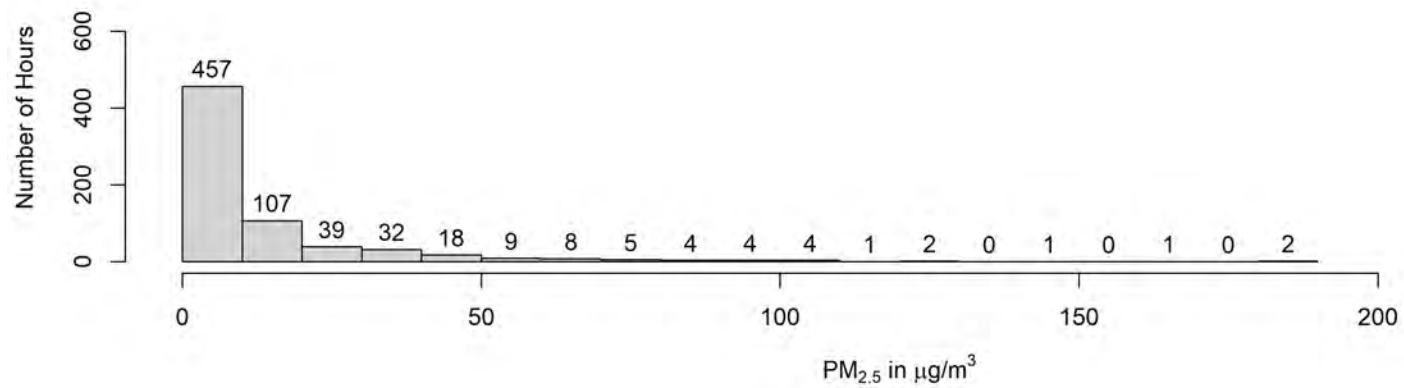
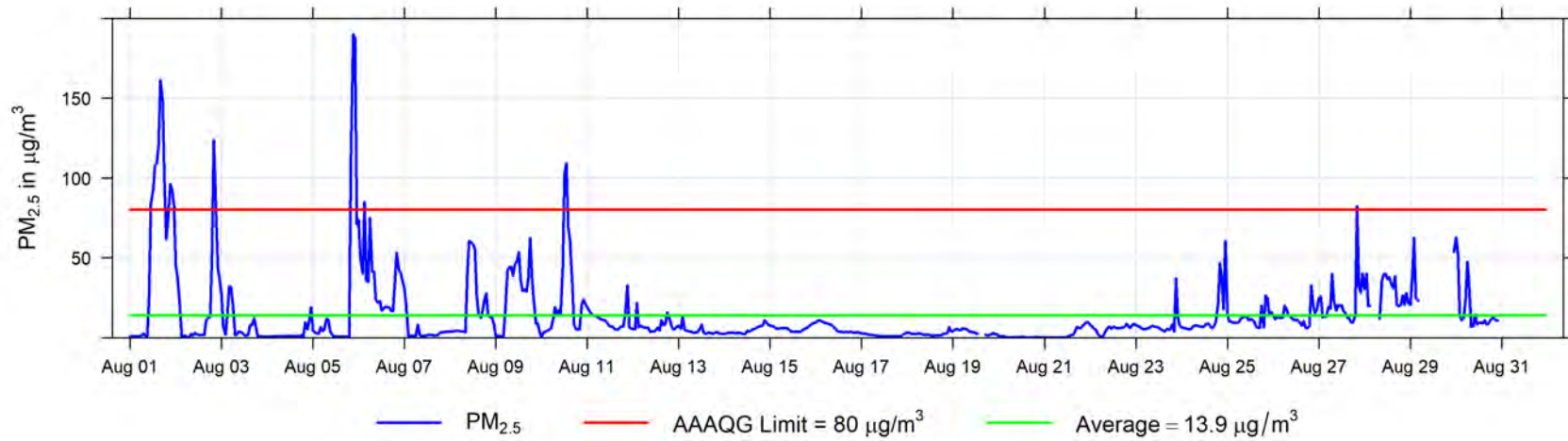
August 2025 30 min Concentration Readings of TRS (in ppb) at Smoky Heights



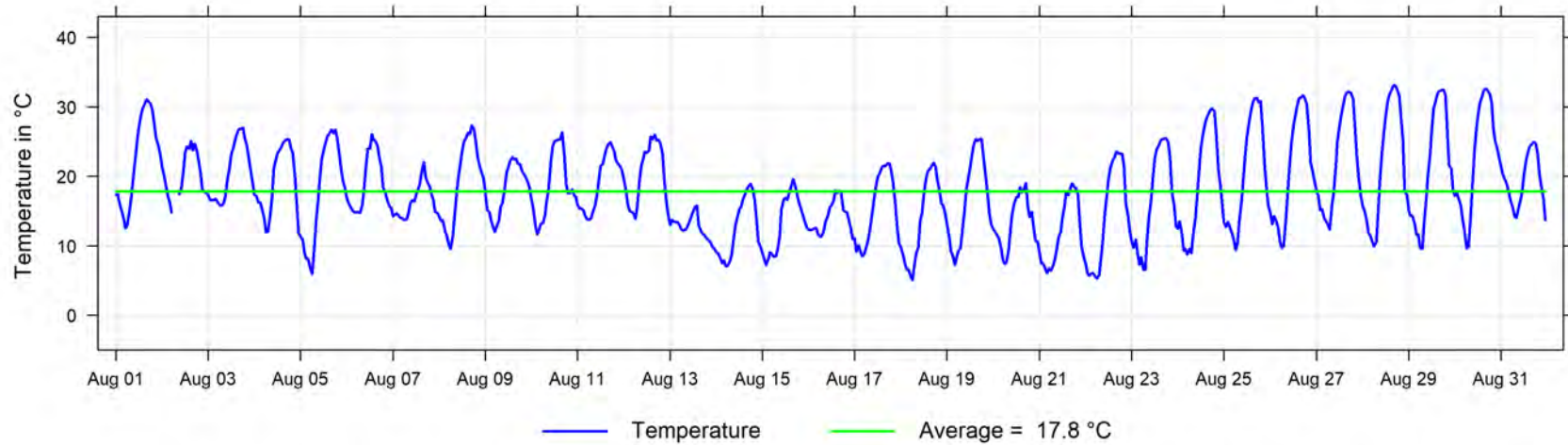
August 2025 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



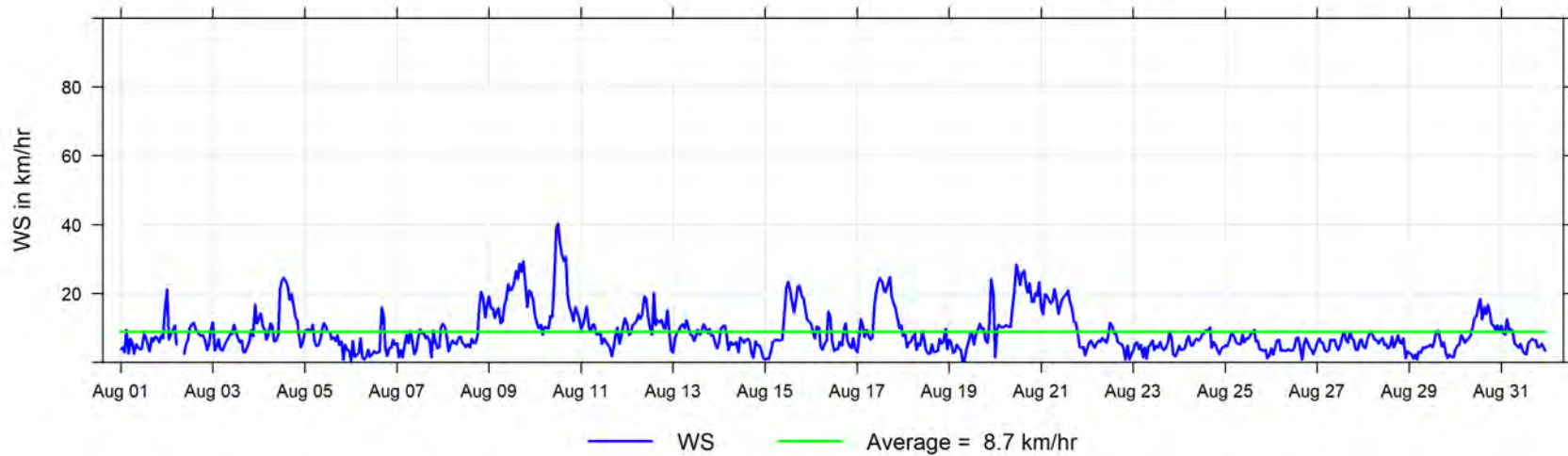
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



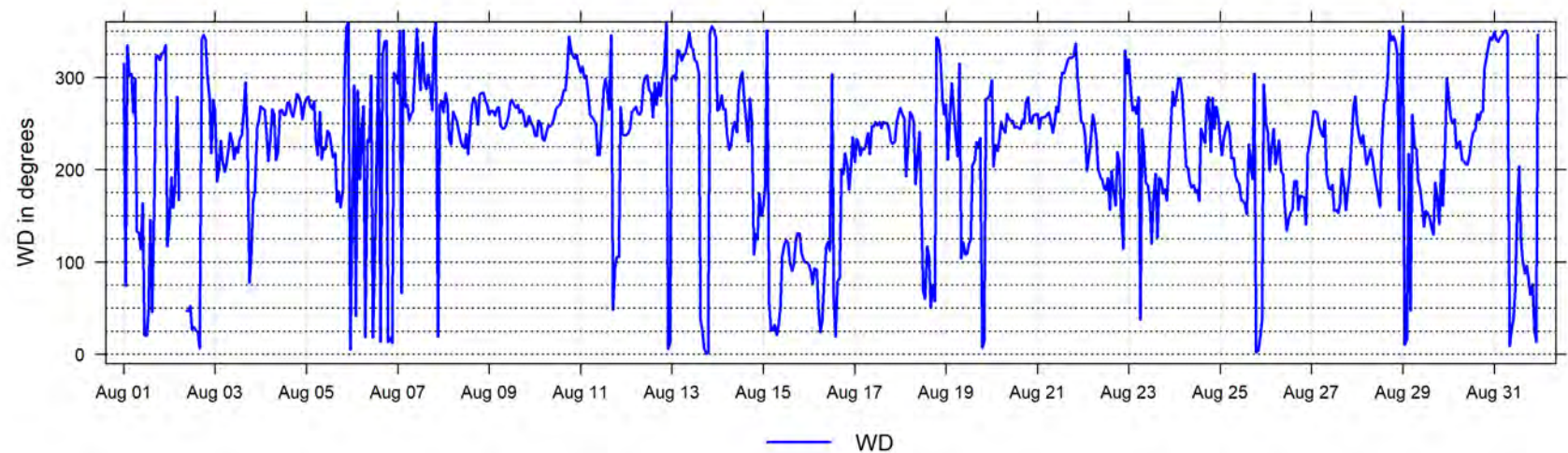
August 2025 Hourly Temperature Readings (in °C) at Smoky Heights



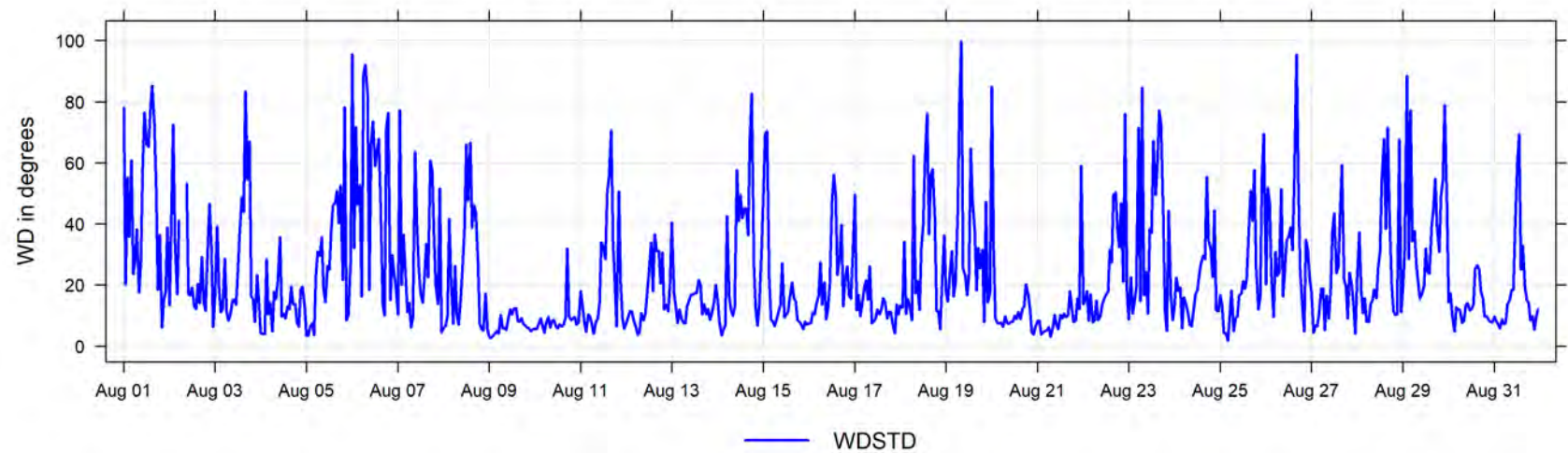
August 2025 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

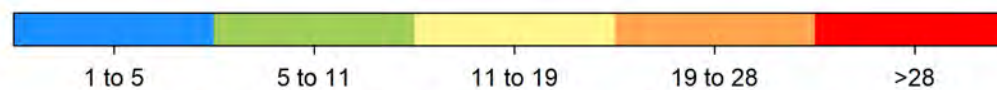
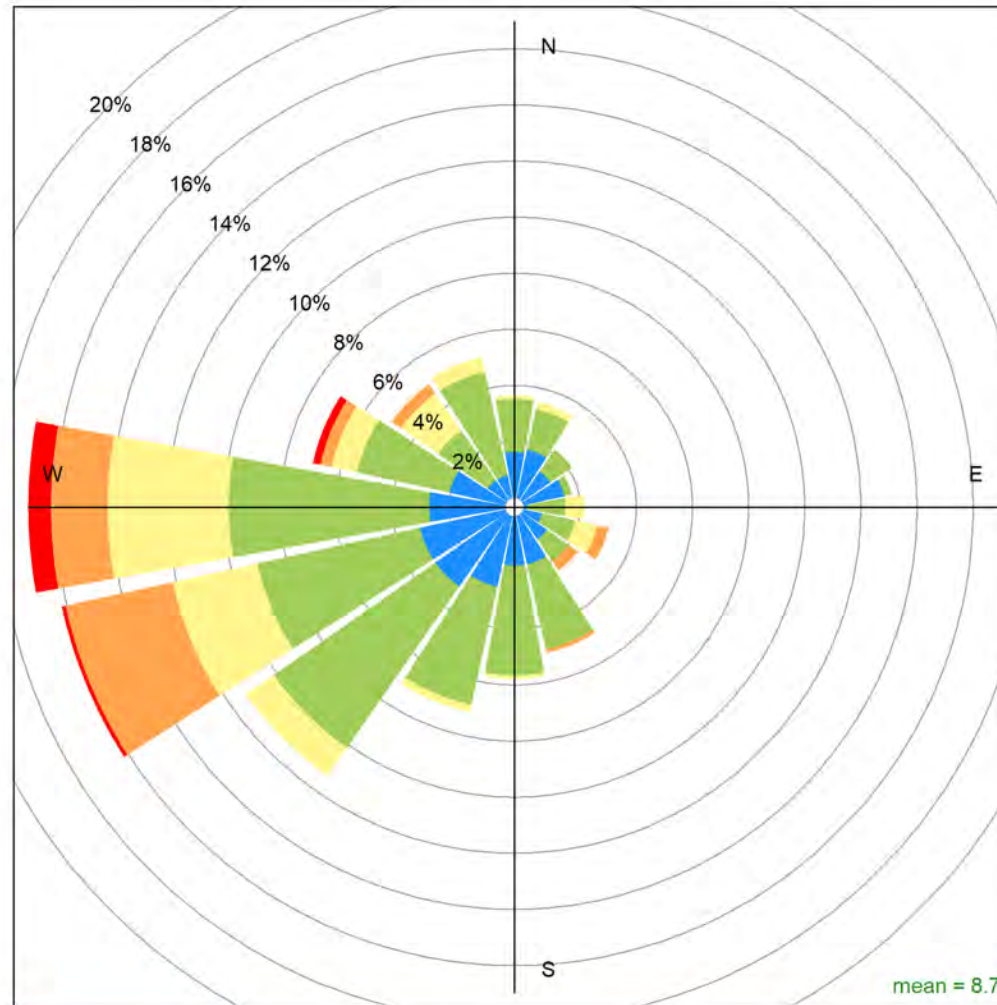


August 2025 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



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





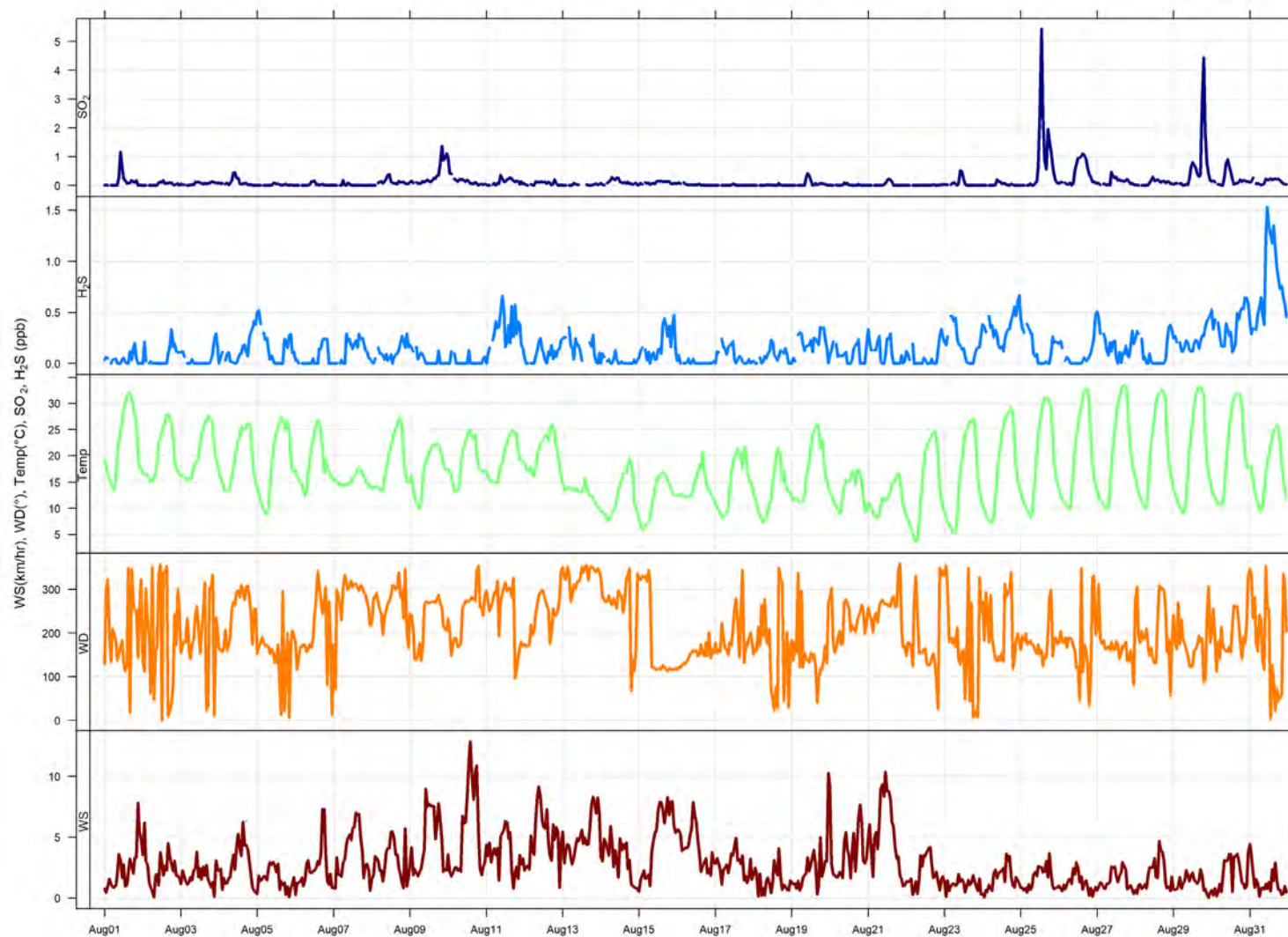
Smoky Heights August 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 1.8 %

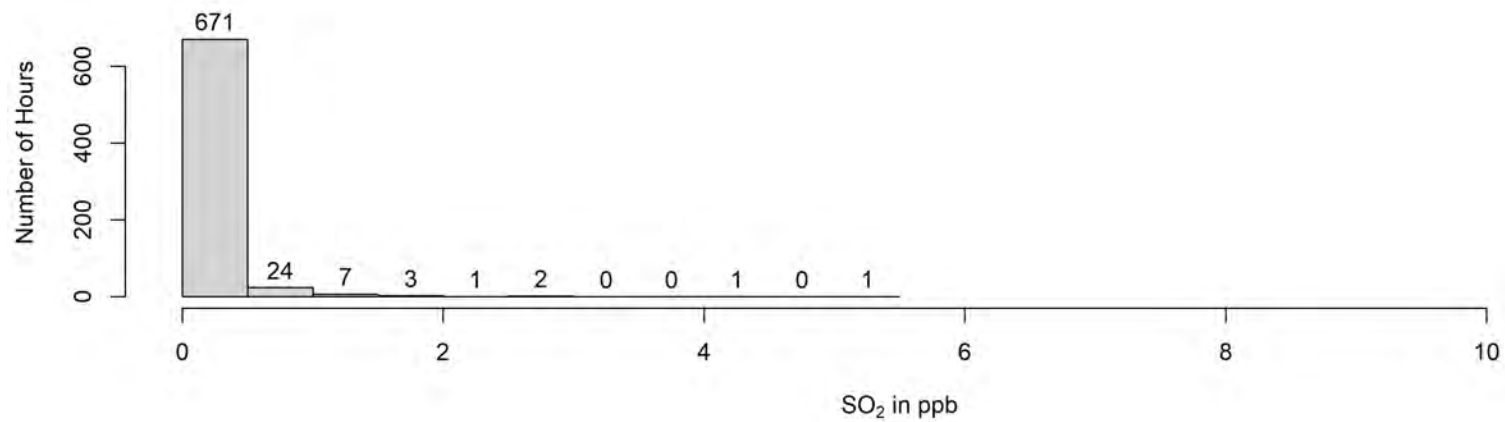
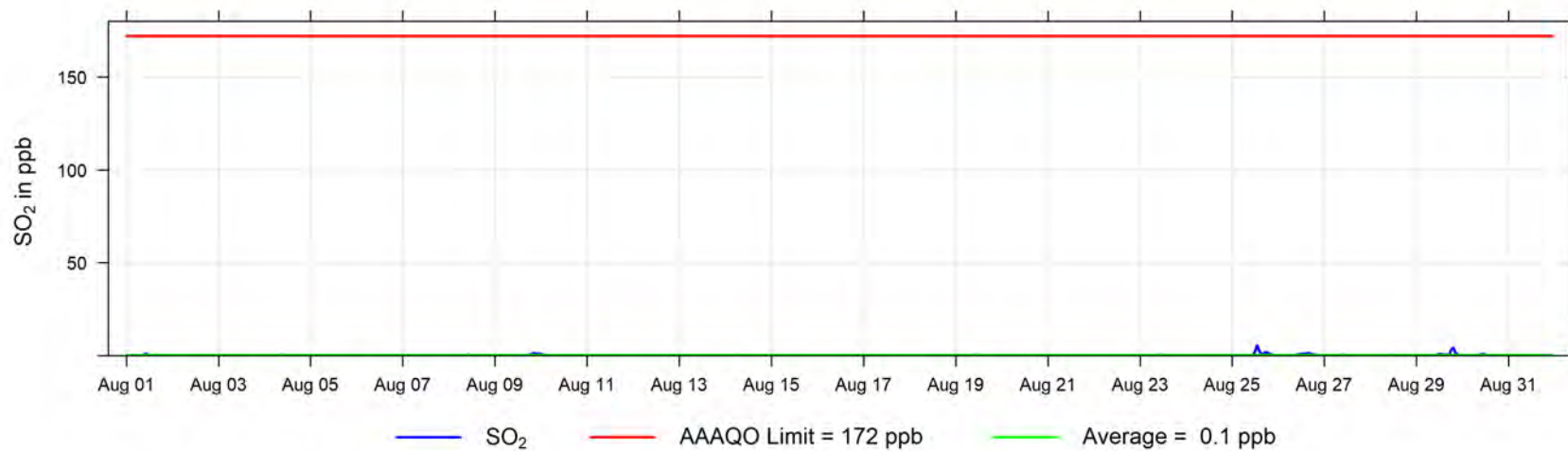
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

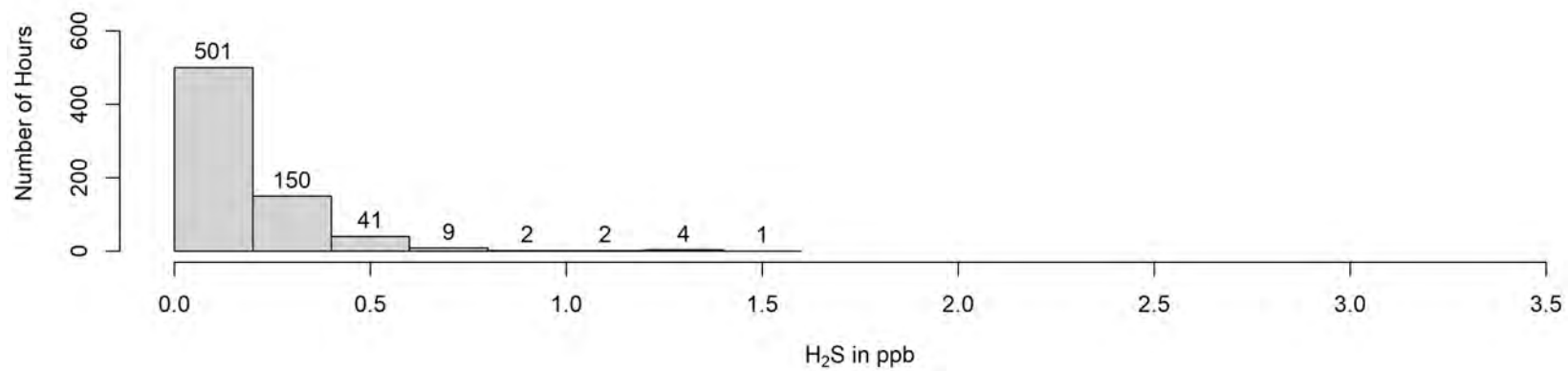
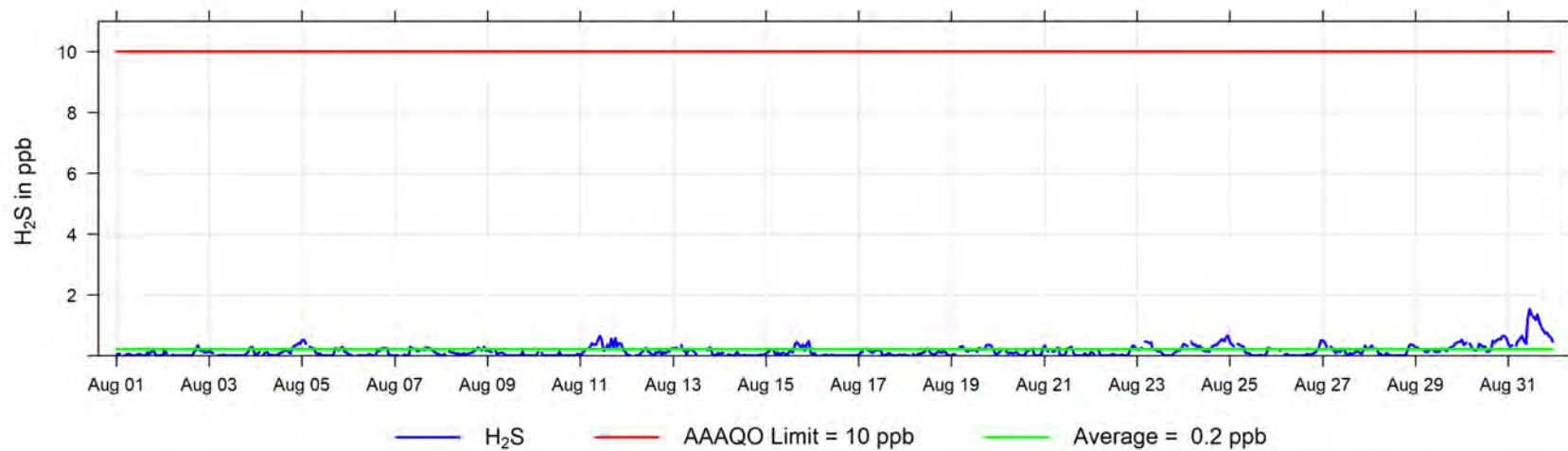
August 2025 Concentration Readings at Valleyview Station



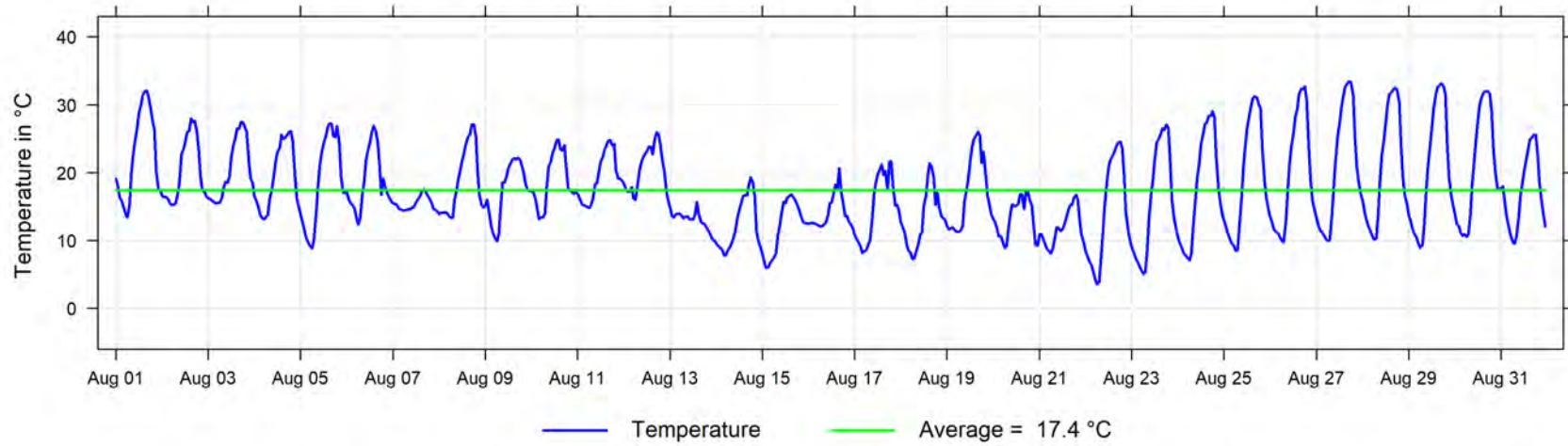
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



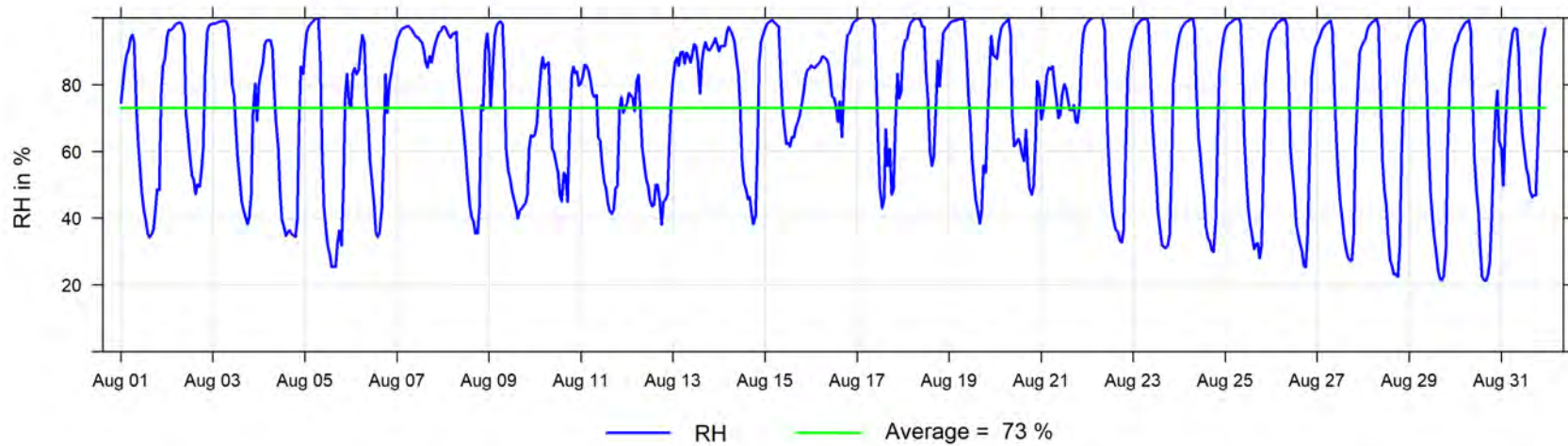
August 2025 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



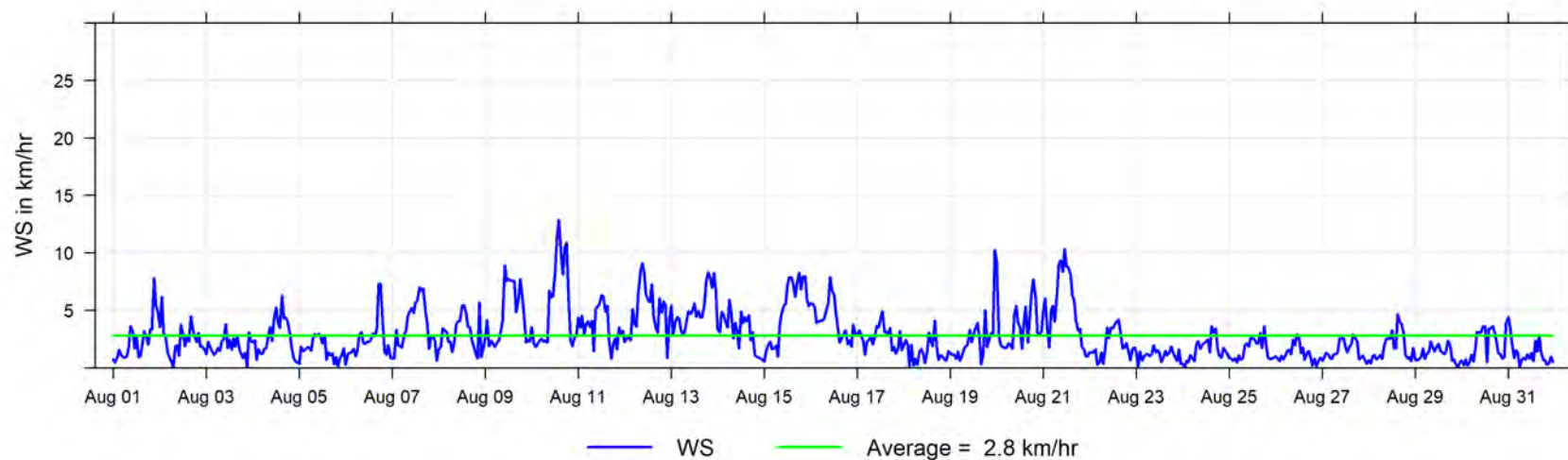
August 2025 Hourly Temperature Readings (in °C) at Valleyview



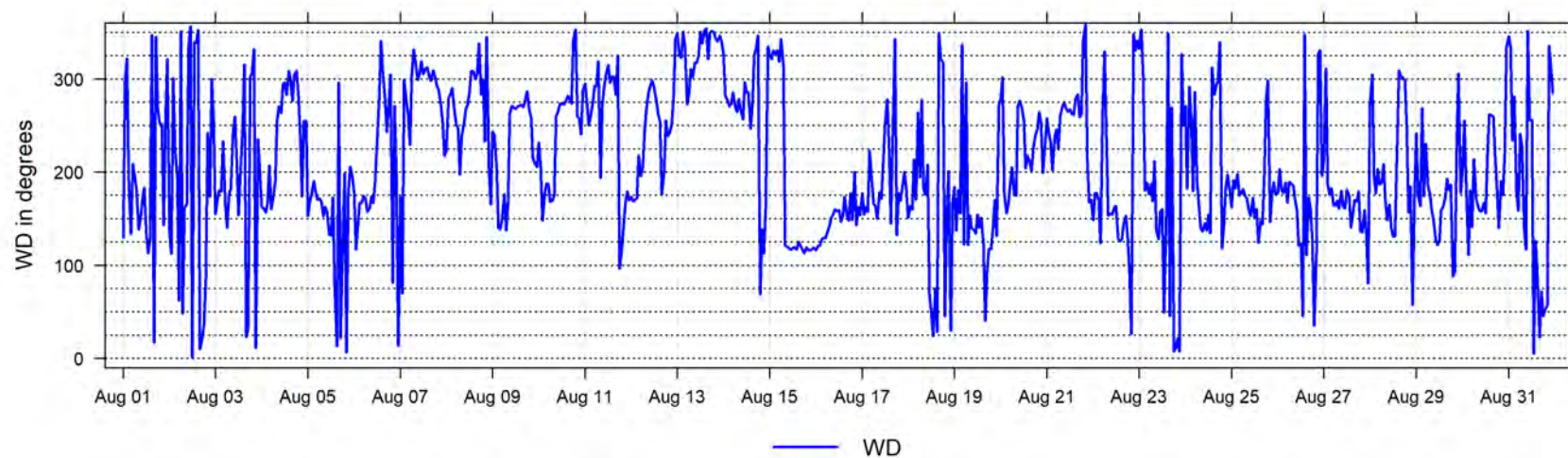
August 2025 Hourly Readings of Relative Humidity (in %) at Valleyview



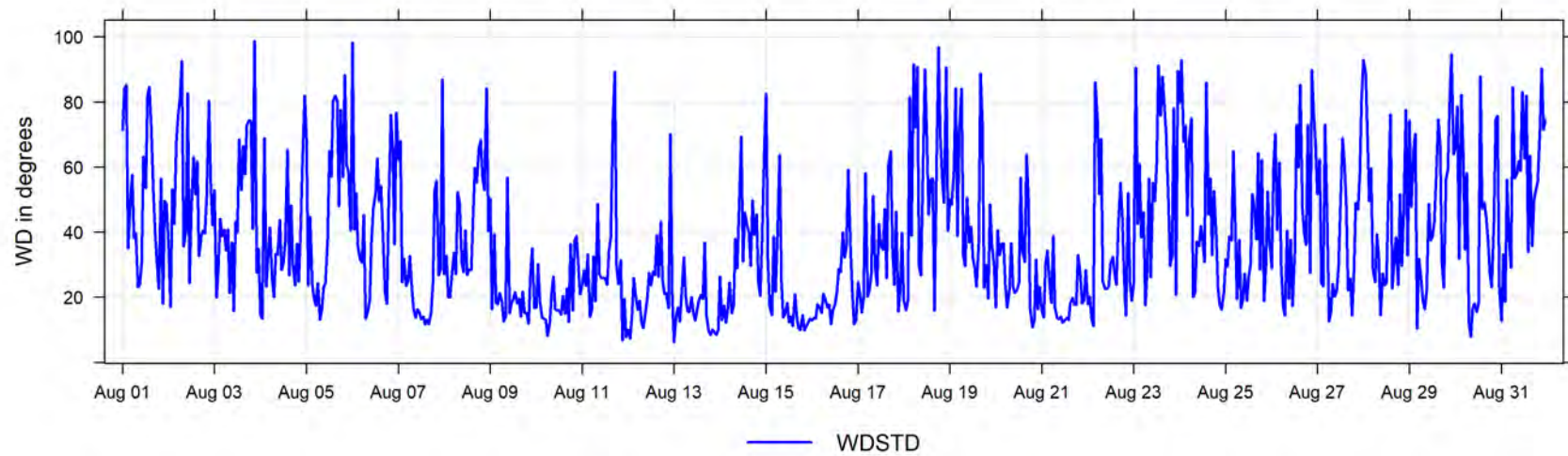
August 2025 Hourly Readings of Wind Speed (in km/hr) at Valleyview

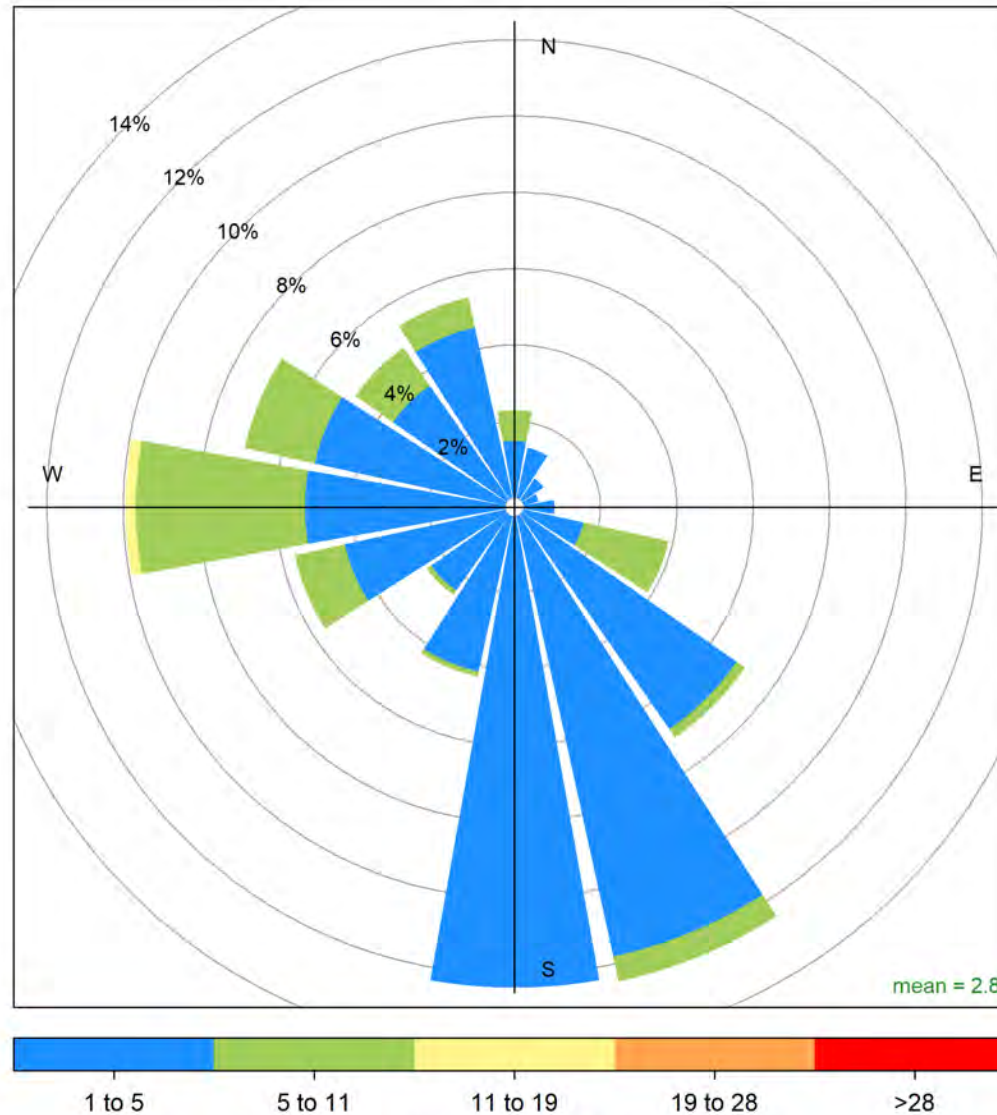


August 2025 Hourly Readings of Wind Direction (in degrees) at Valleyview



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

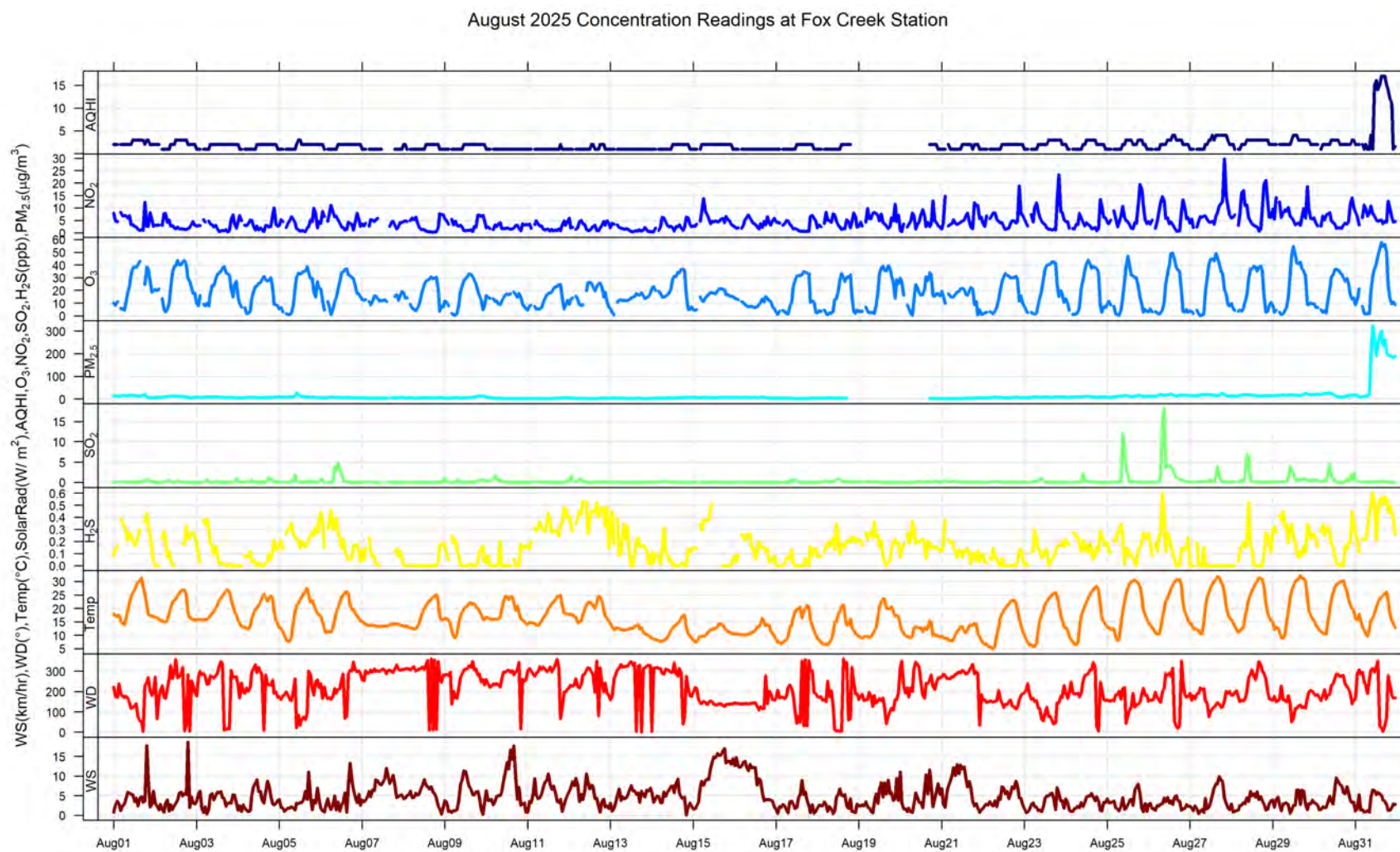




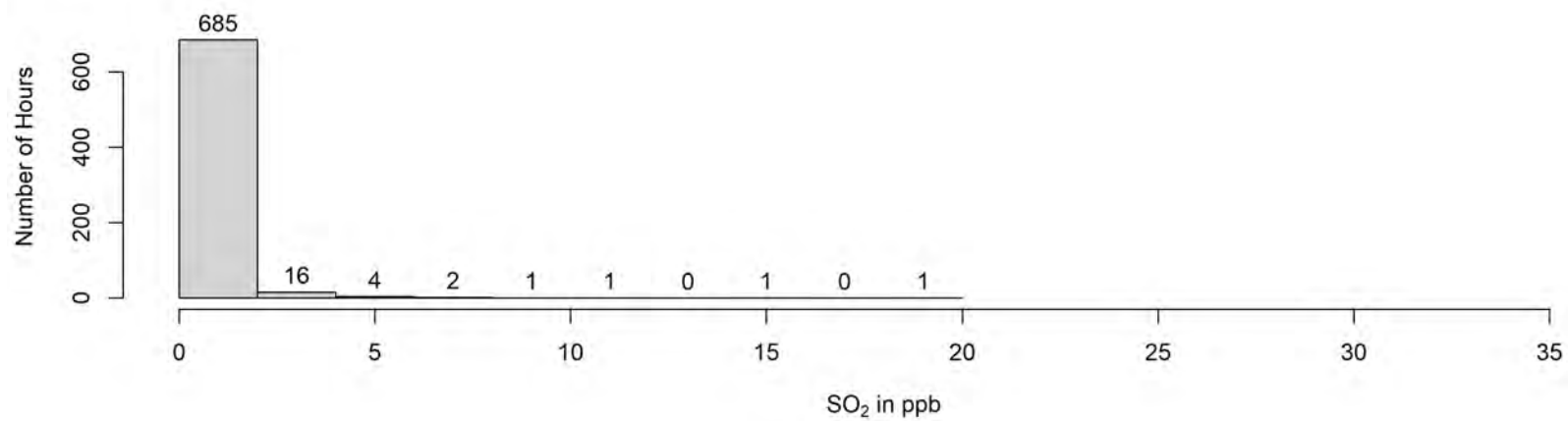
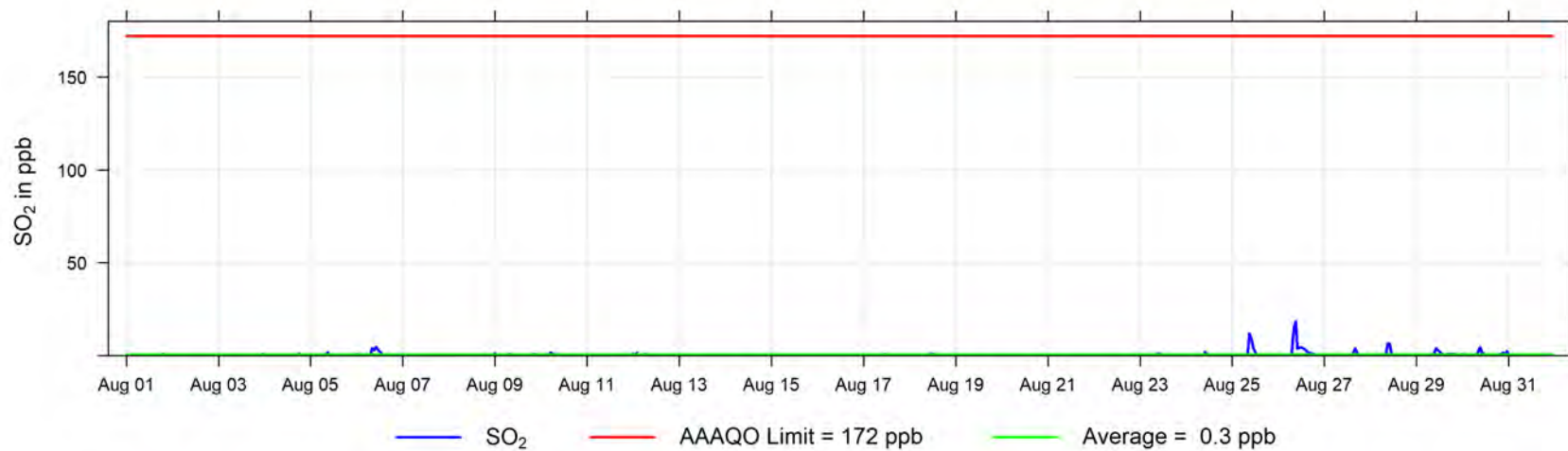
Valleyview August 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 18.9 %

7 Fox Creek Charts

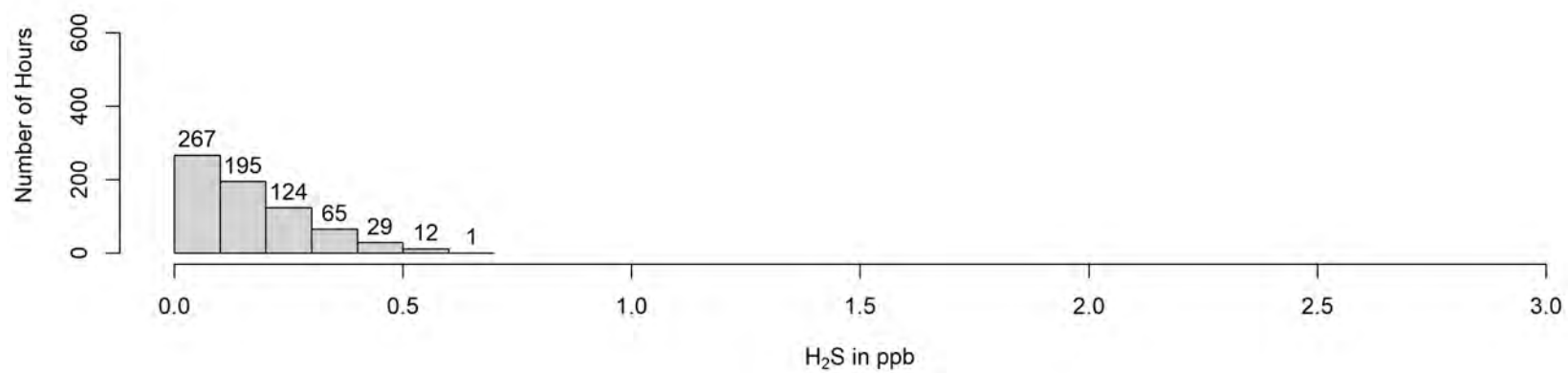
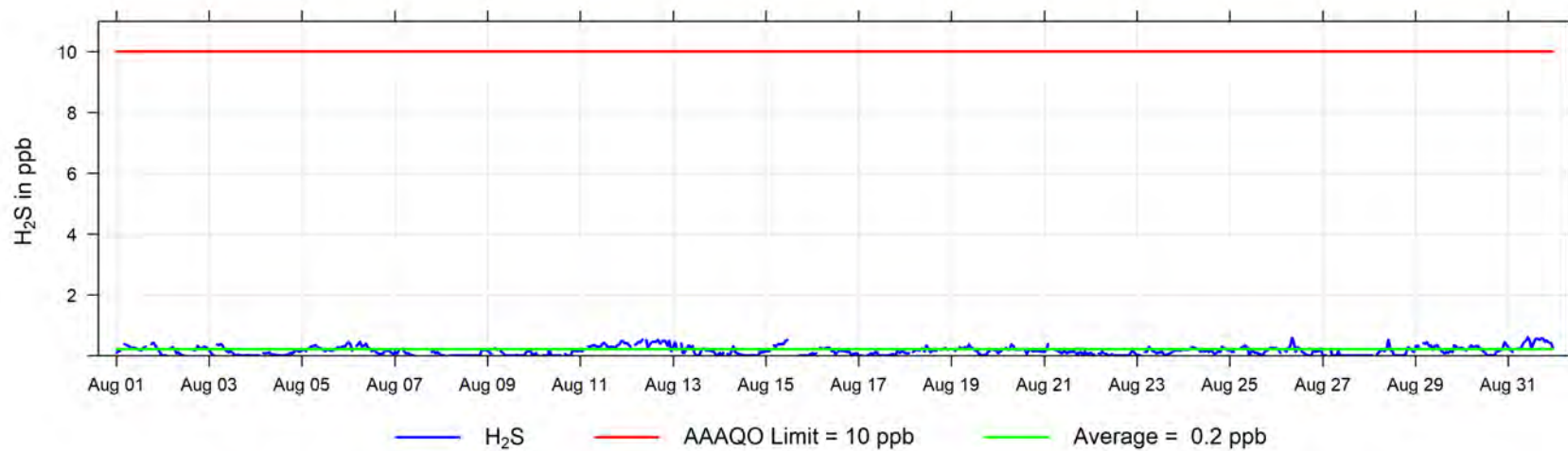
The following pages include the charts and histograms for Fox Creek Station



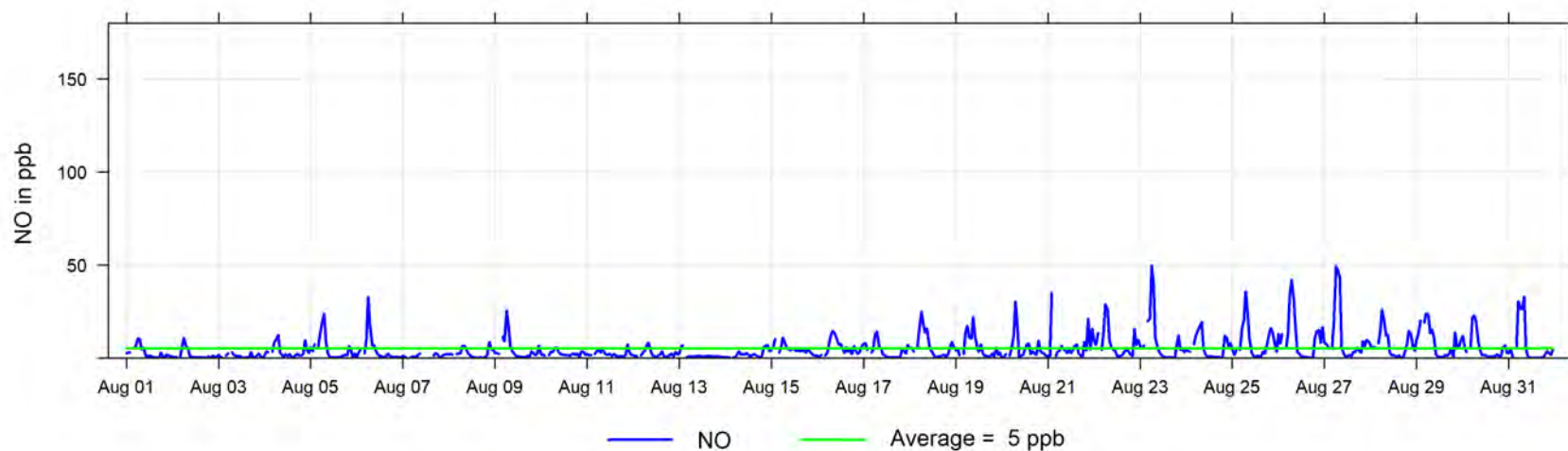
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



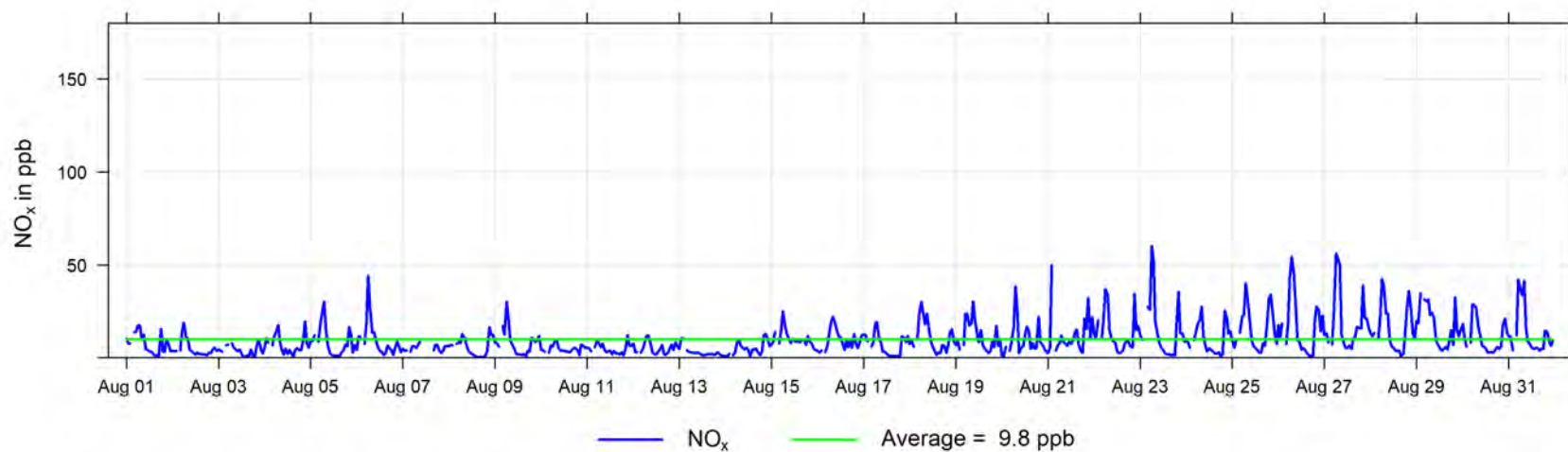
August 2025 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



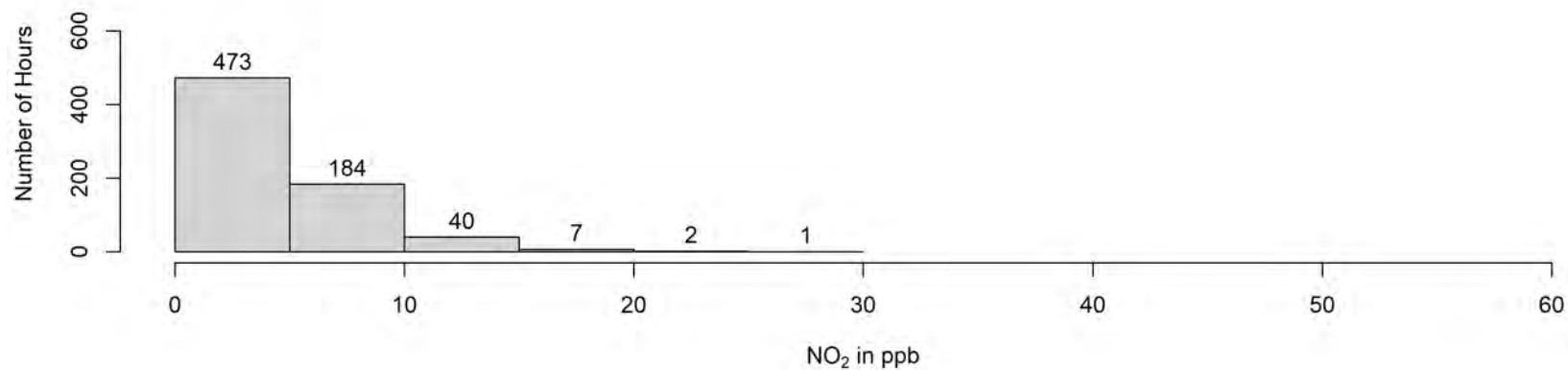
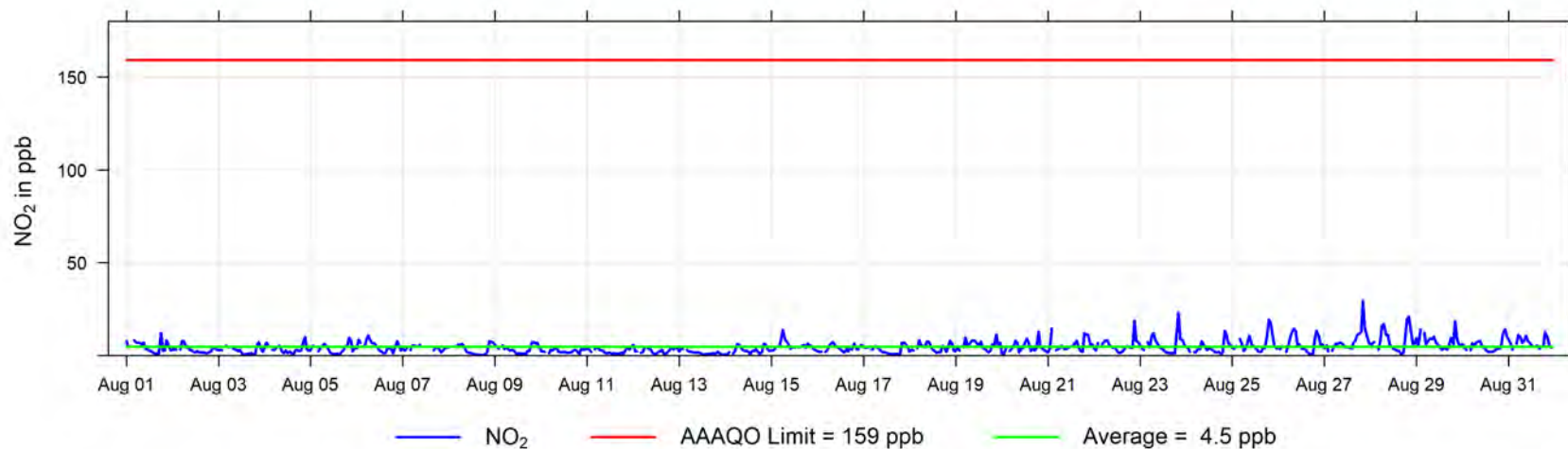
August 2025 Hourly Concentration Readings of NO (in ppb) at Fox Creek



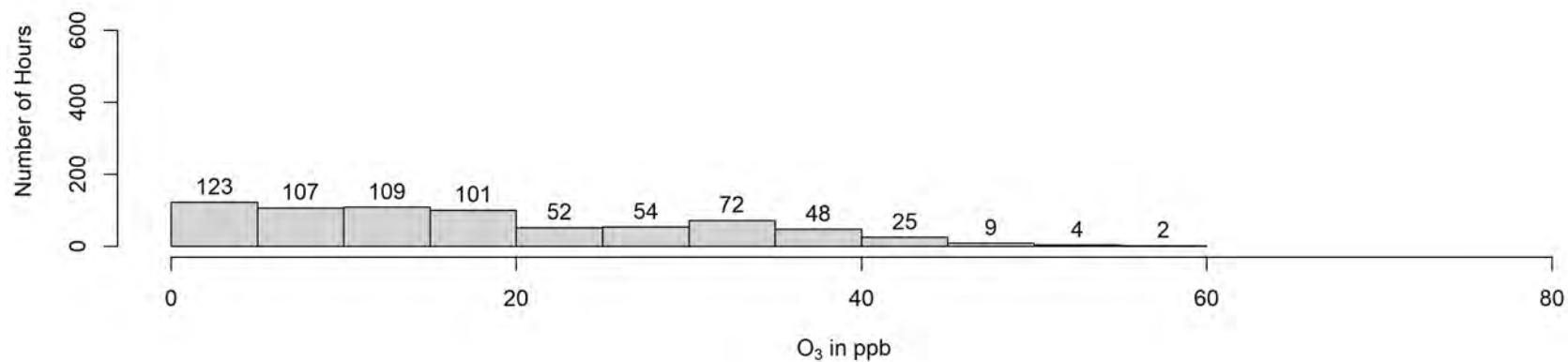
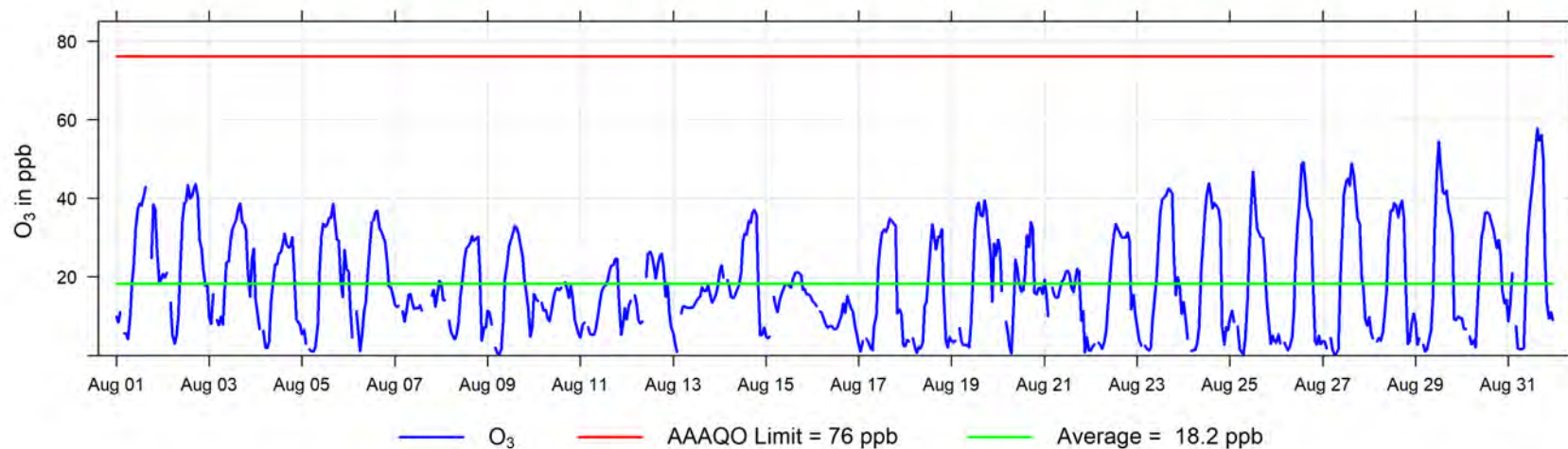
August 2025 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



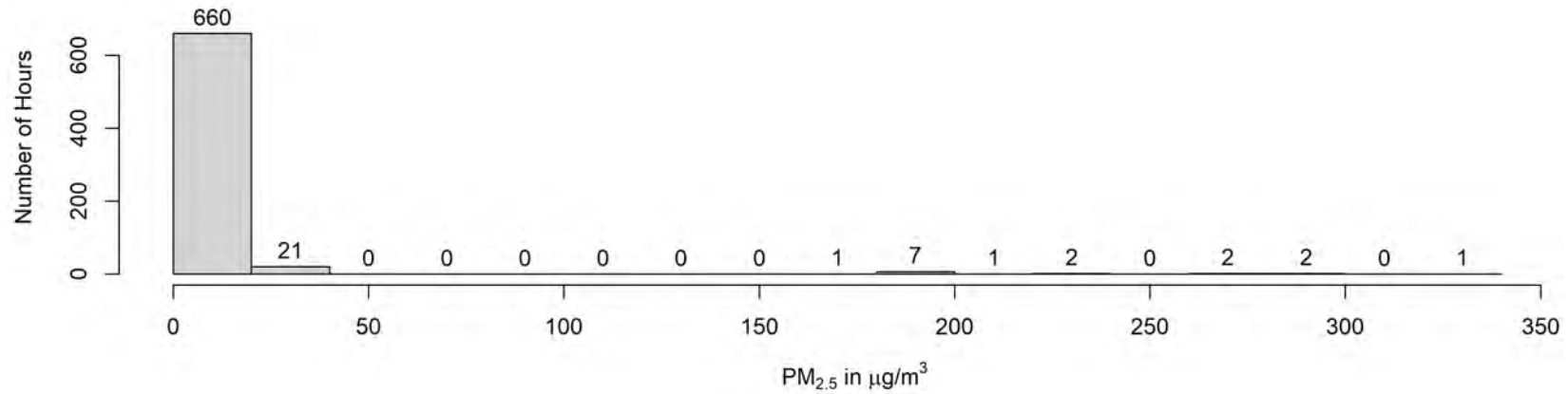
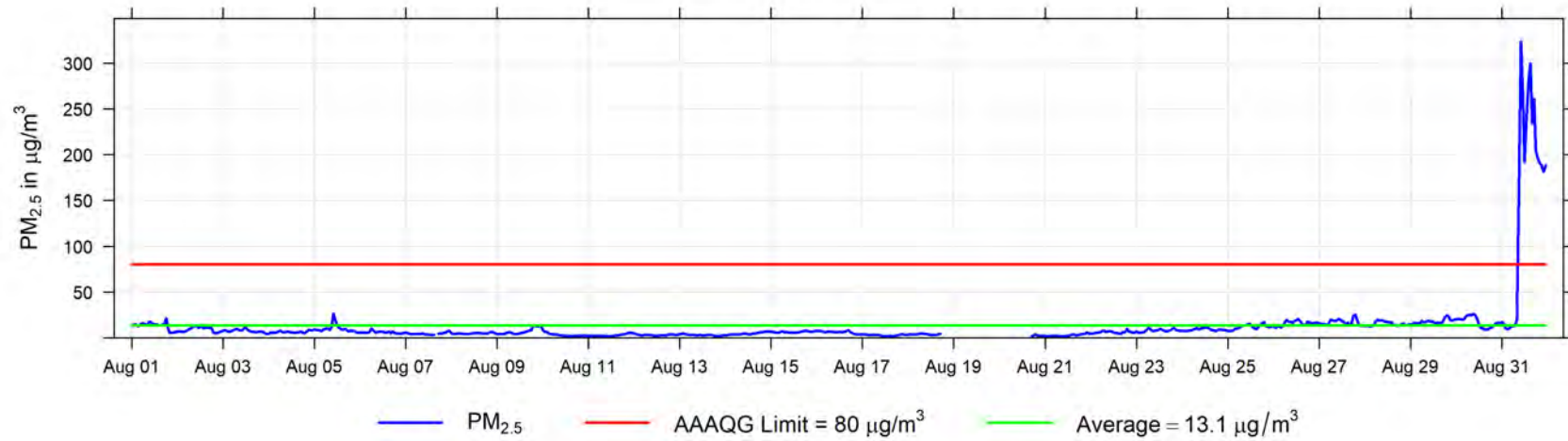
August 2025 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



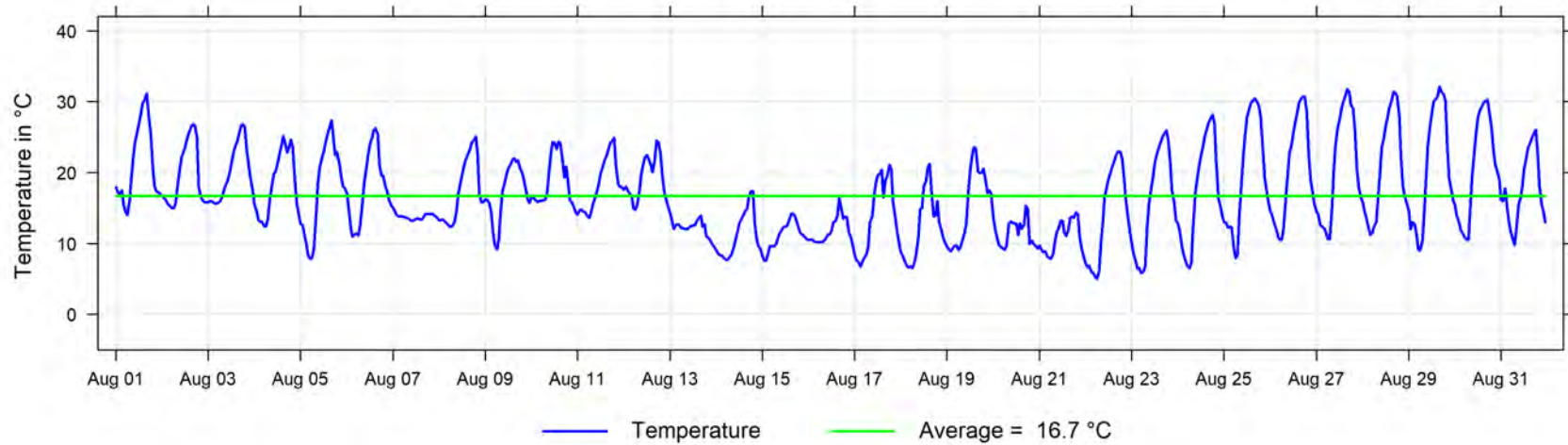
August 2025 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



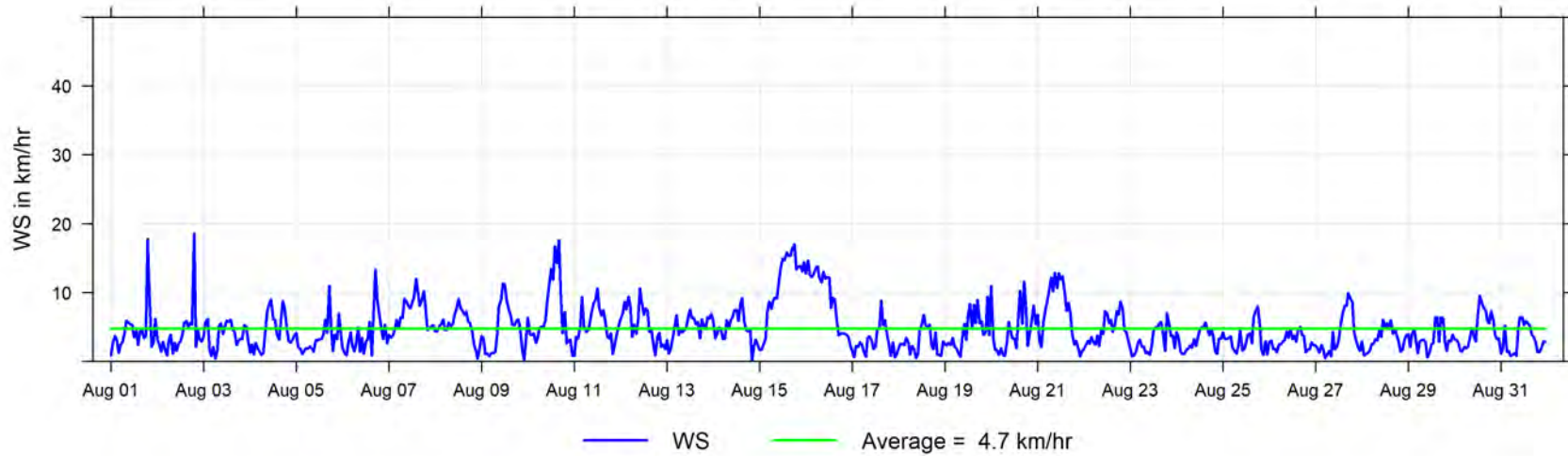
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



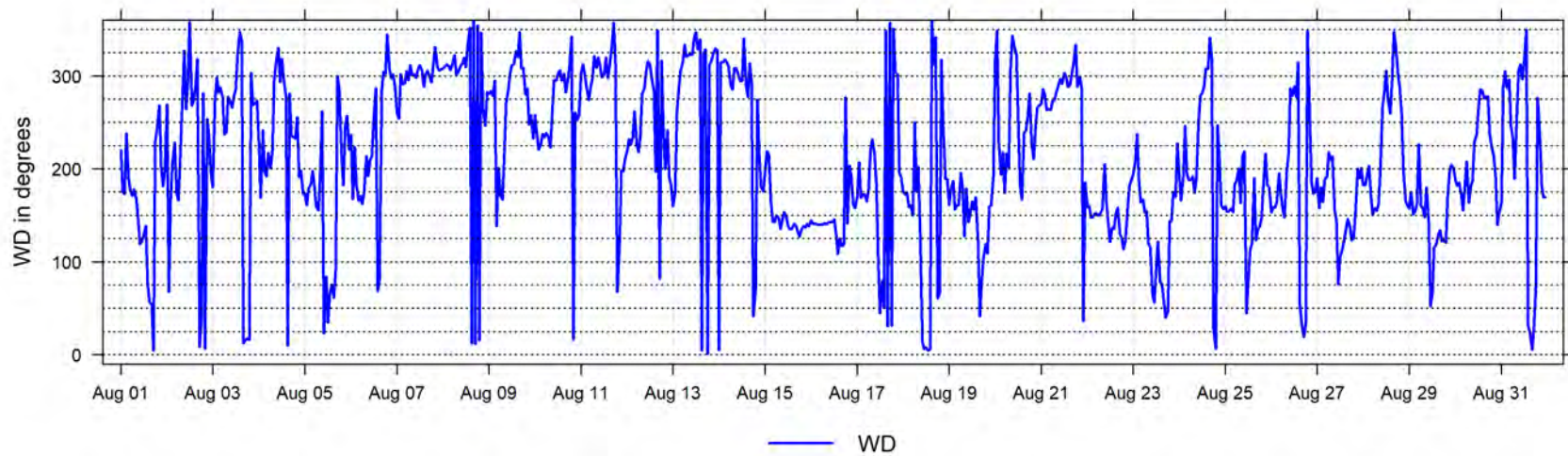
August 2025 Hourly Temperature Readings (in °C) at Fox Creek



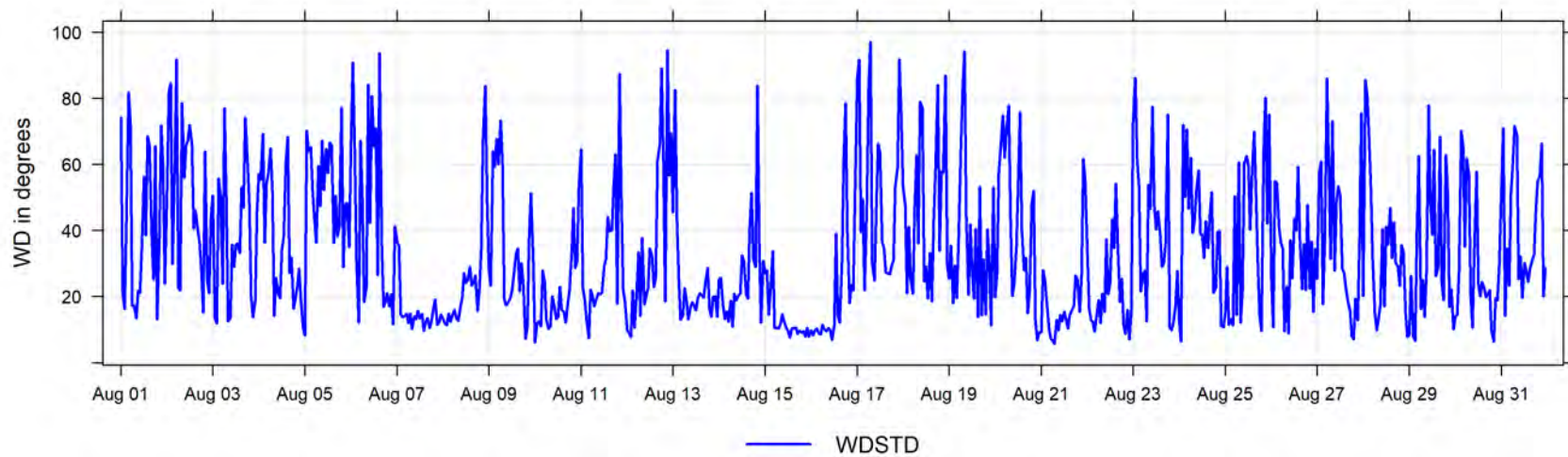
August 2025 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

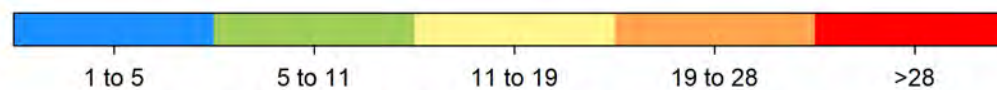
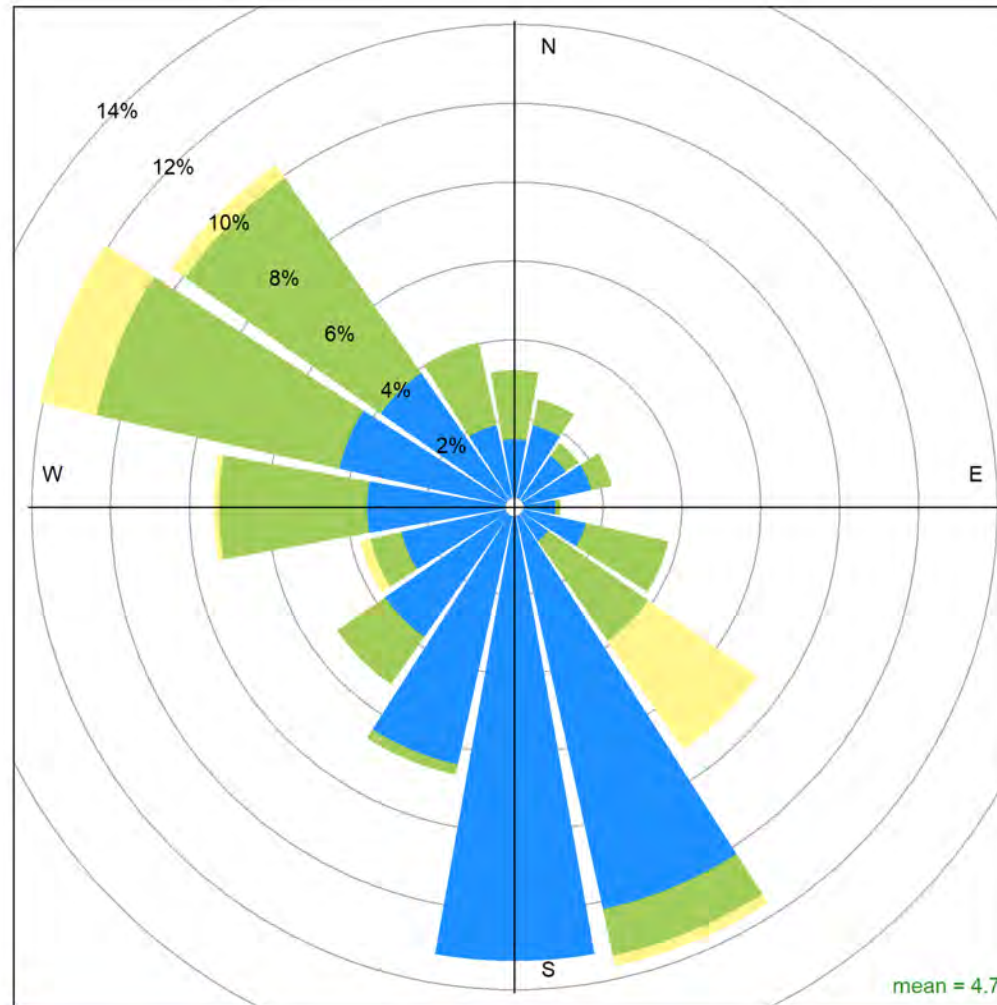


August 2025 Hourly Readings of Wind Direction (in degrees) at Fox Creek



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





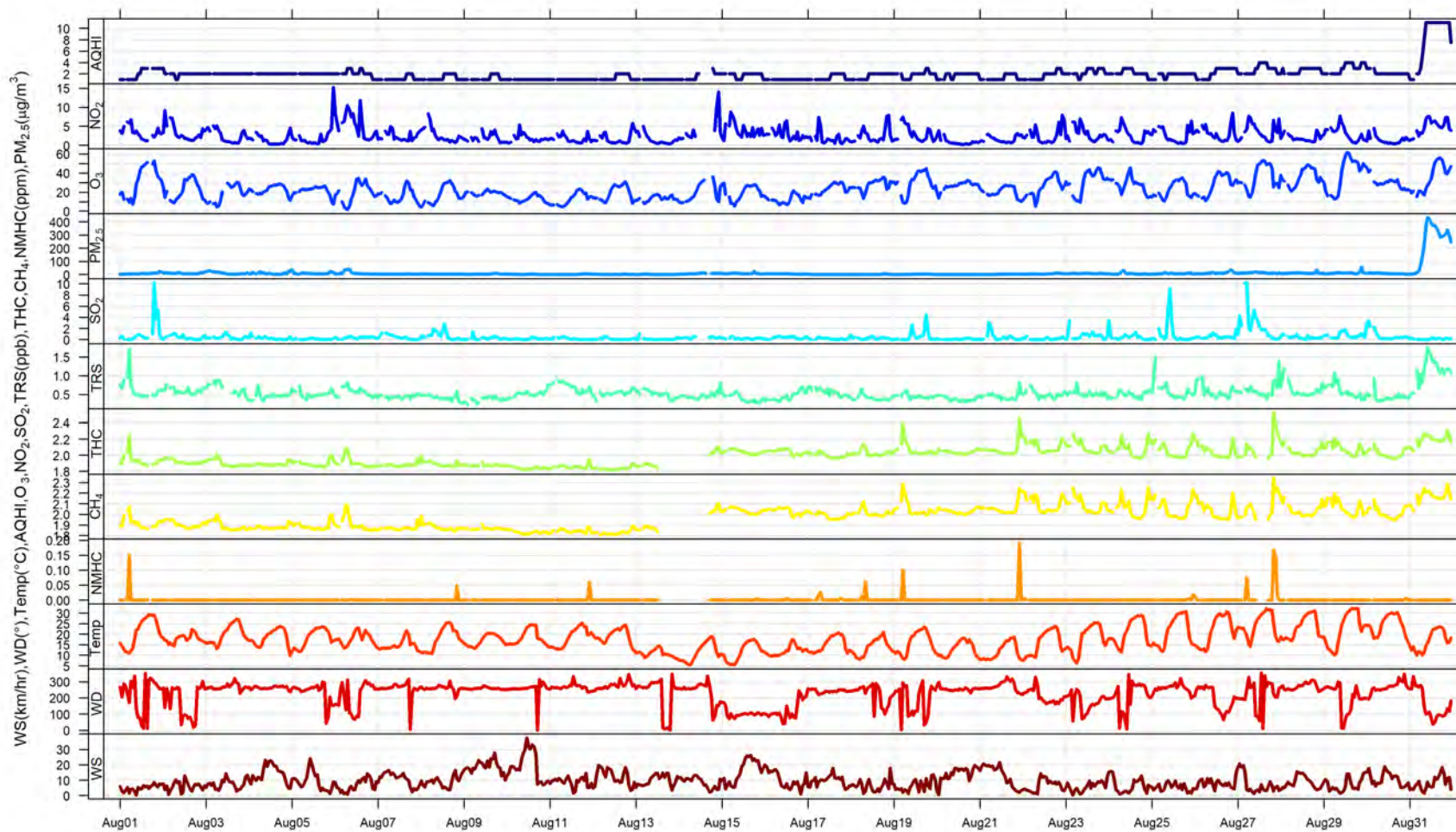
Fox Creek August 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 5.8 %

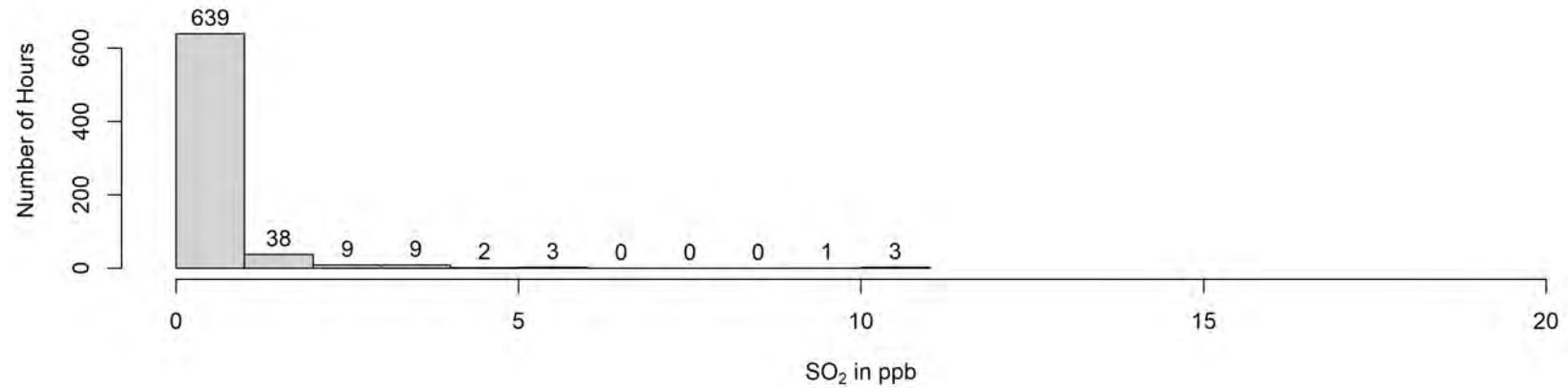
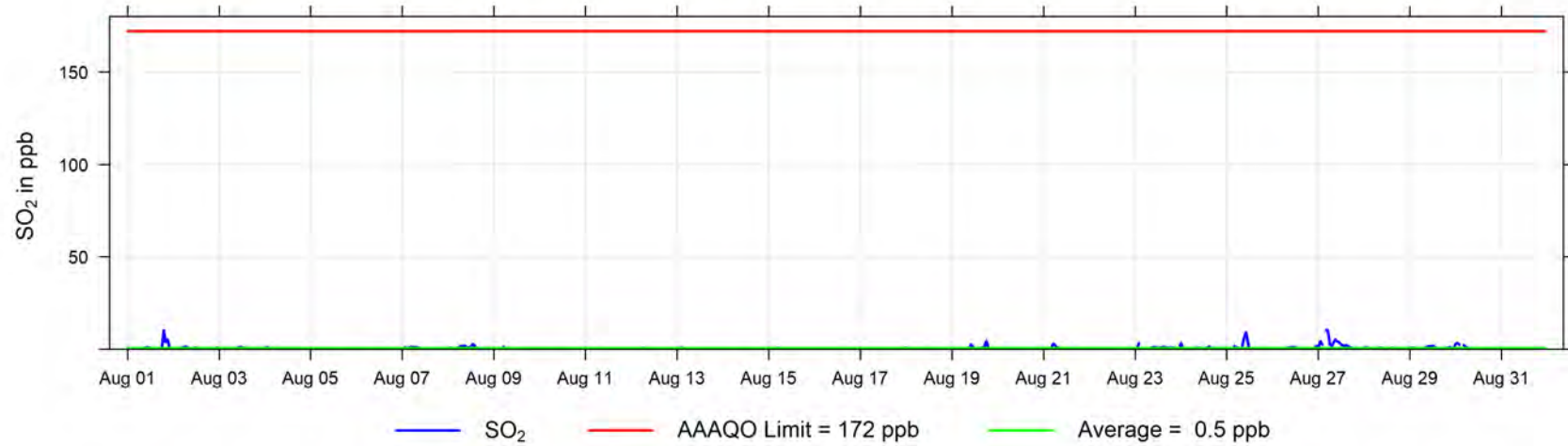
8 Happy Valley (Portable) Charts

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

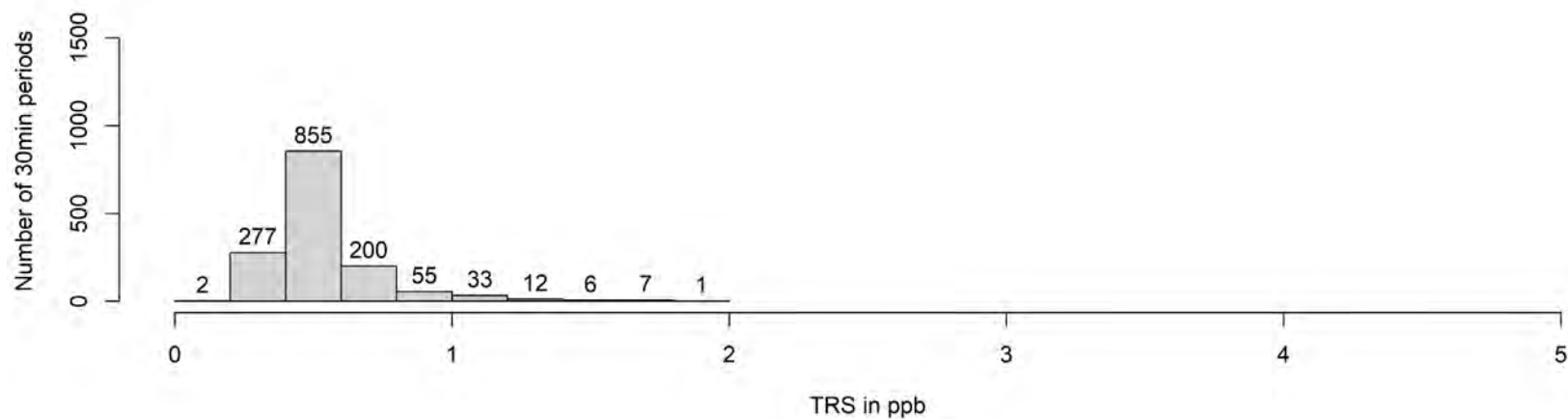
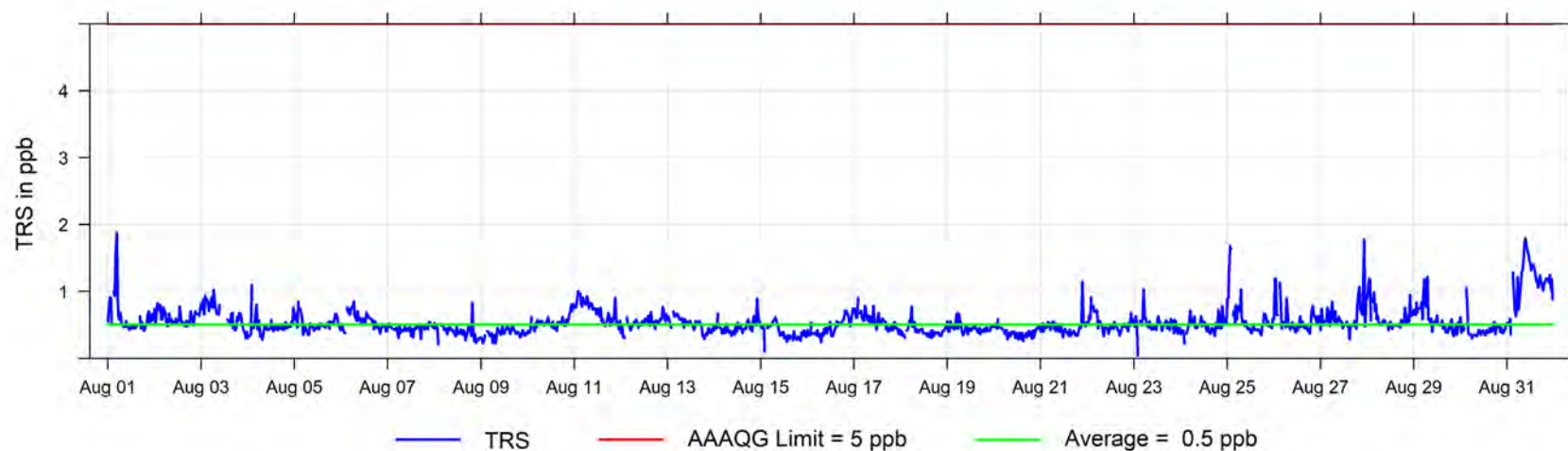
August 2025 Concentration Readings at Happy Valley Station



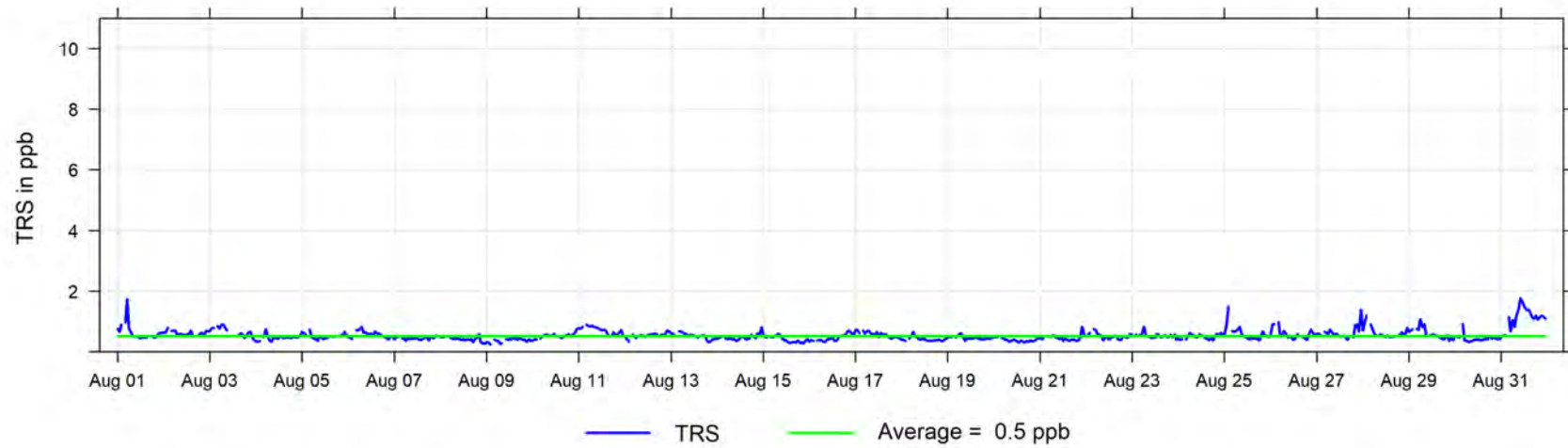
August 2025 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



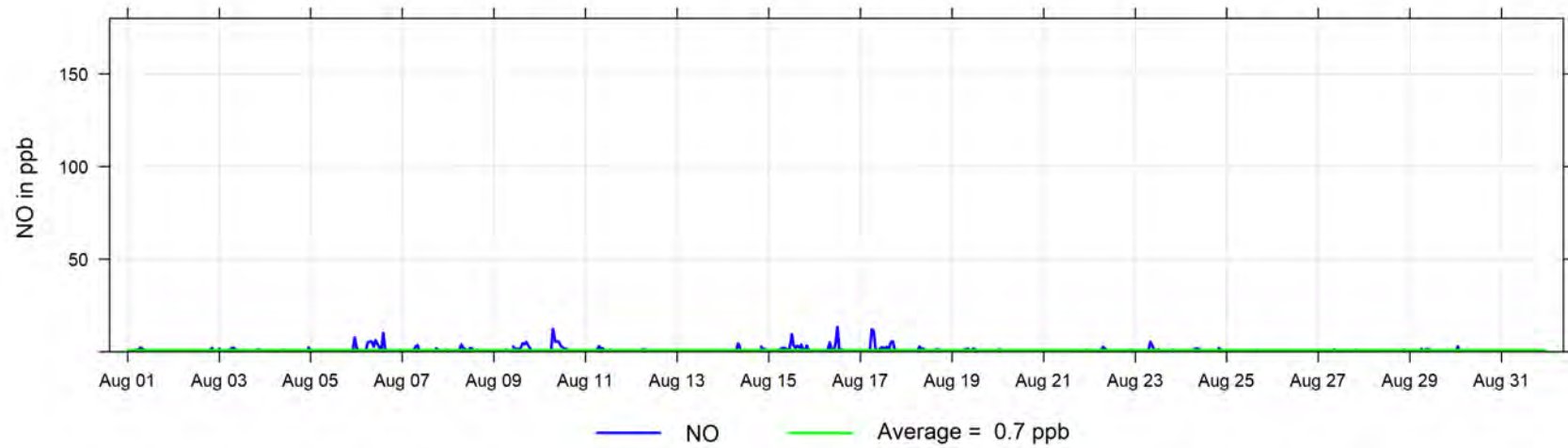
August 2025 30 min Concentration Readings of TRS (in ppb) at Happy Valley



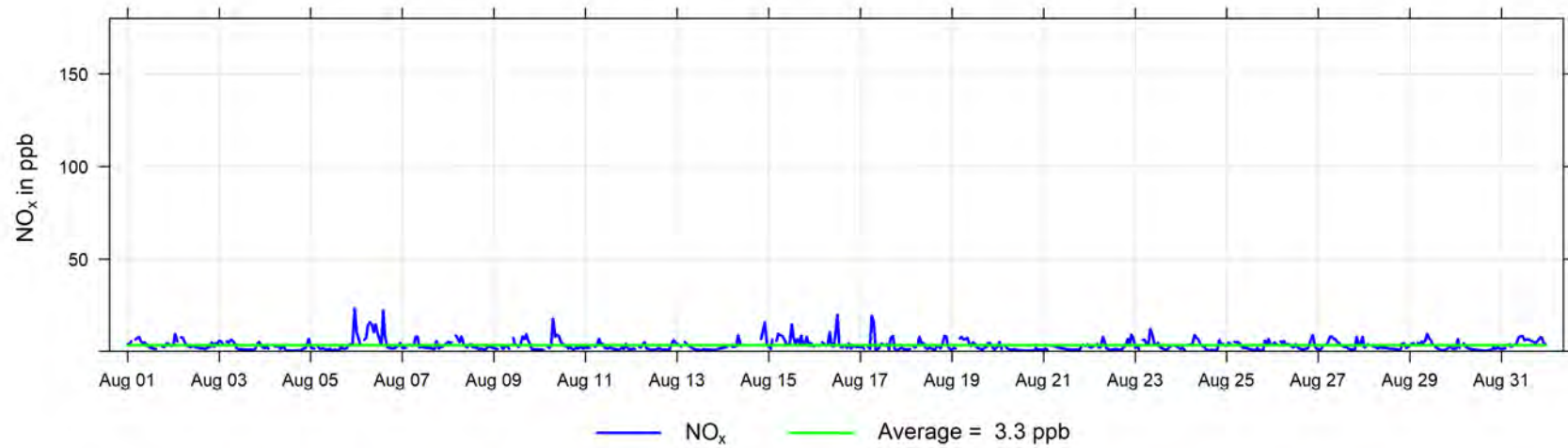
August 2025 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



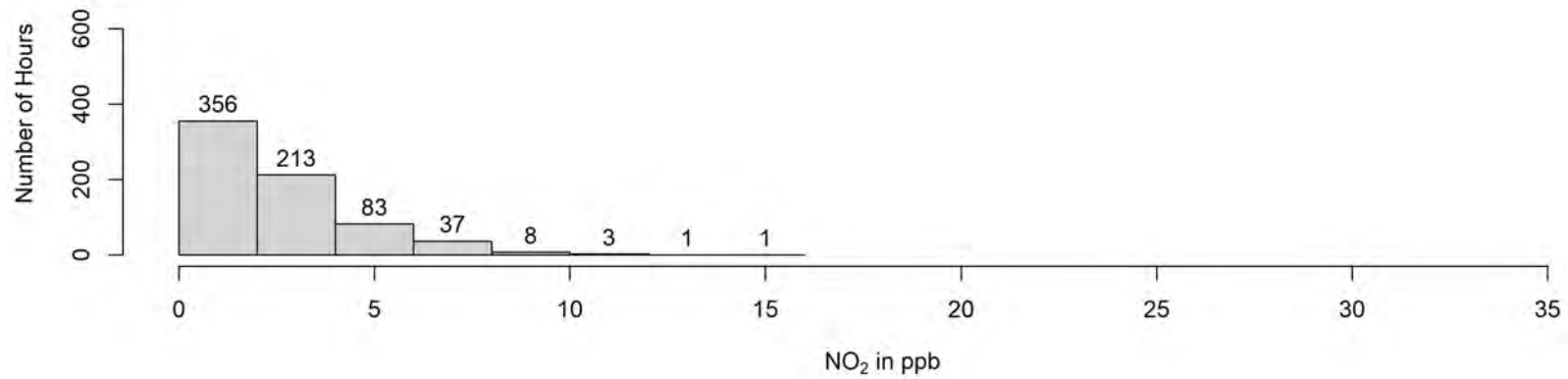
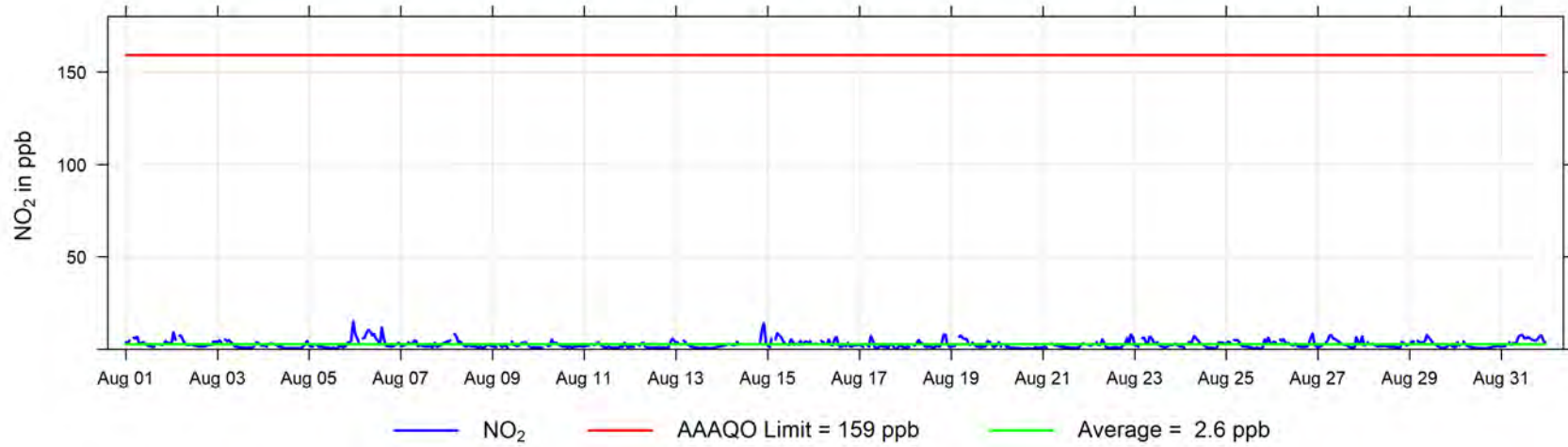
August 2025 Hourly Concentration Readings of NO (in ppb) at Happy Valley



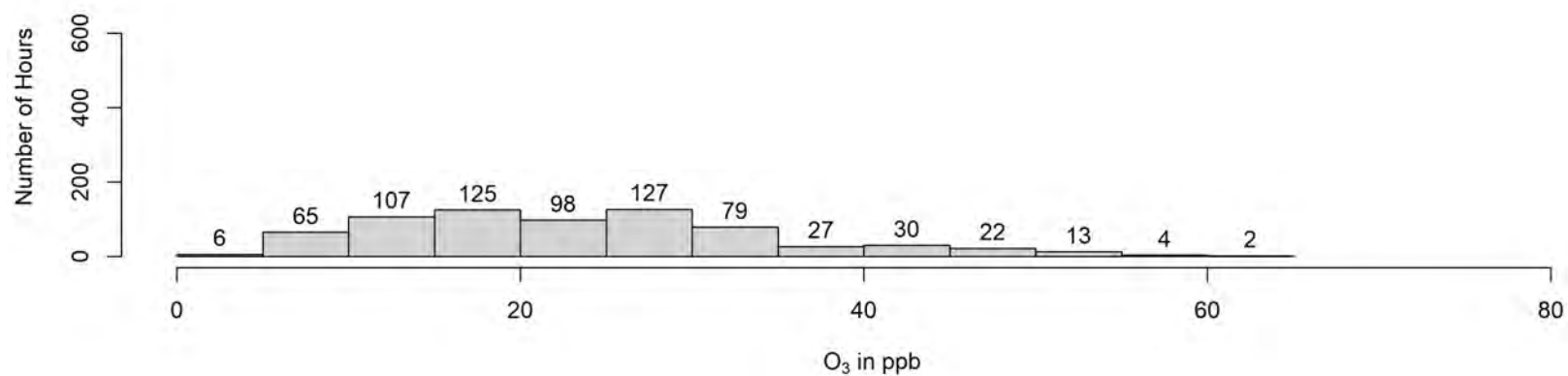
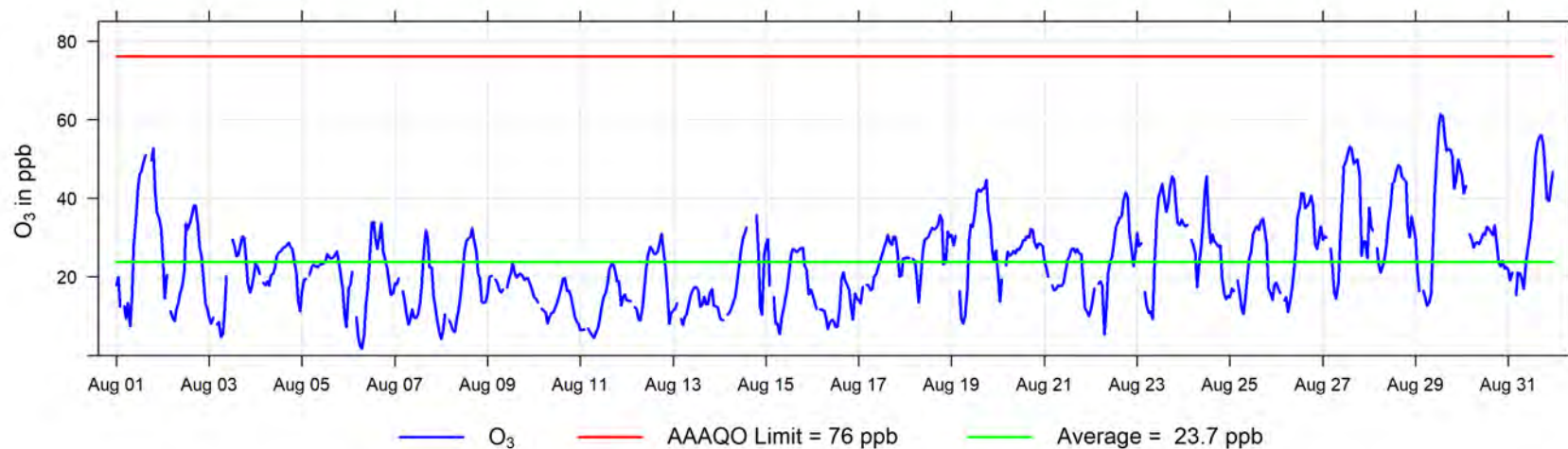
August 2025 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



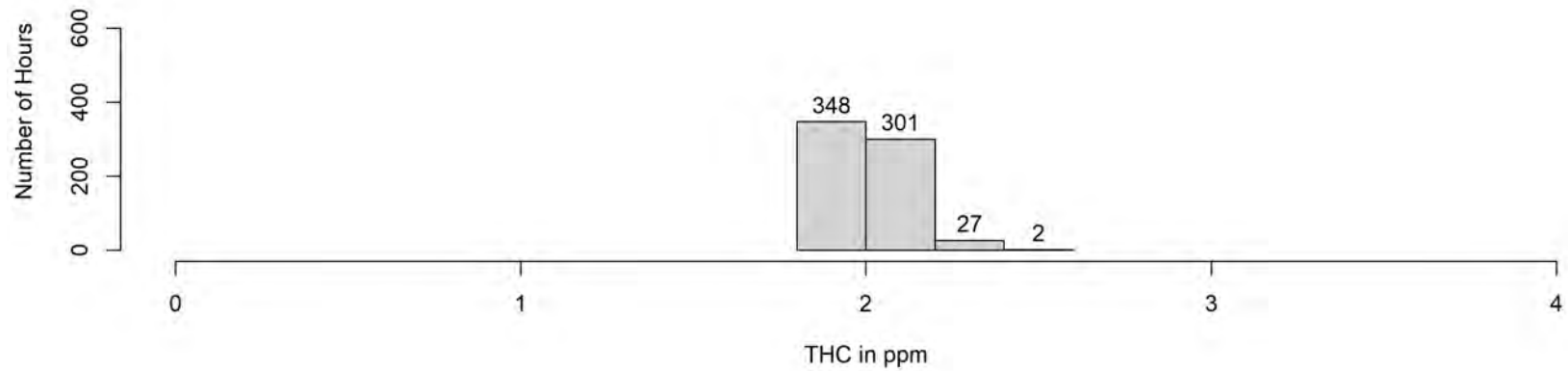
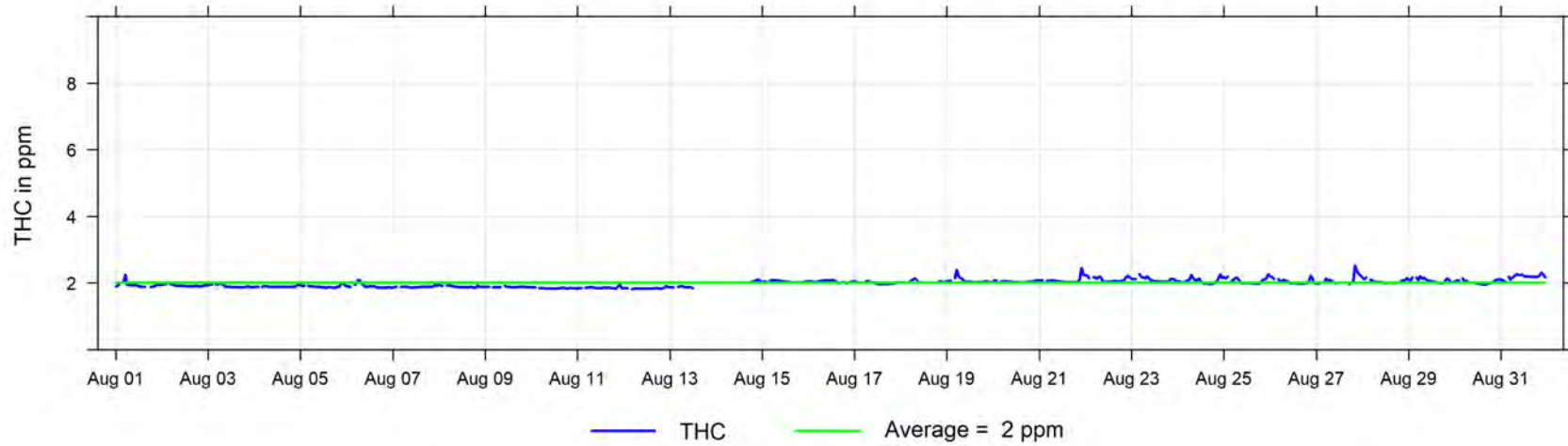
August 2025 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



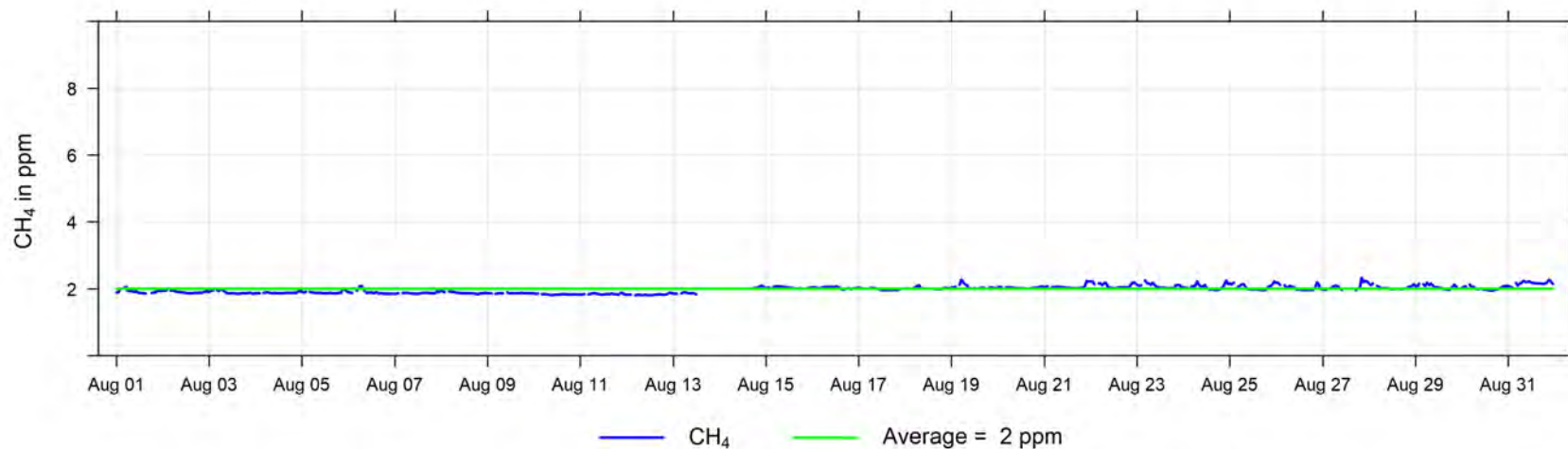
August 2025 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



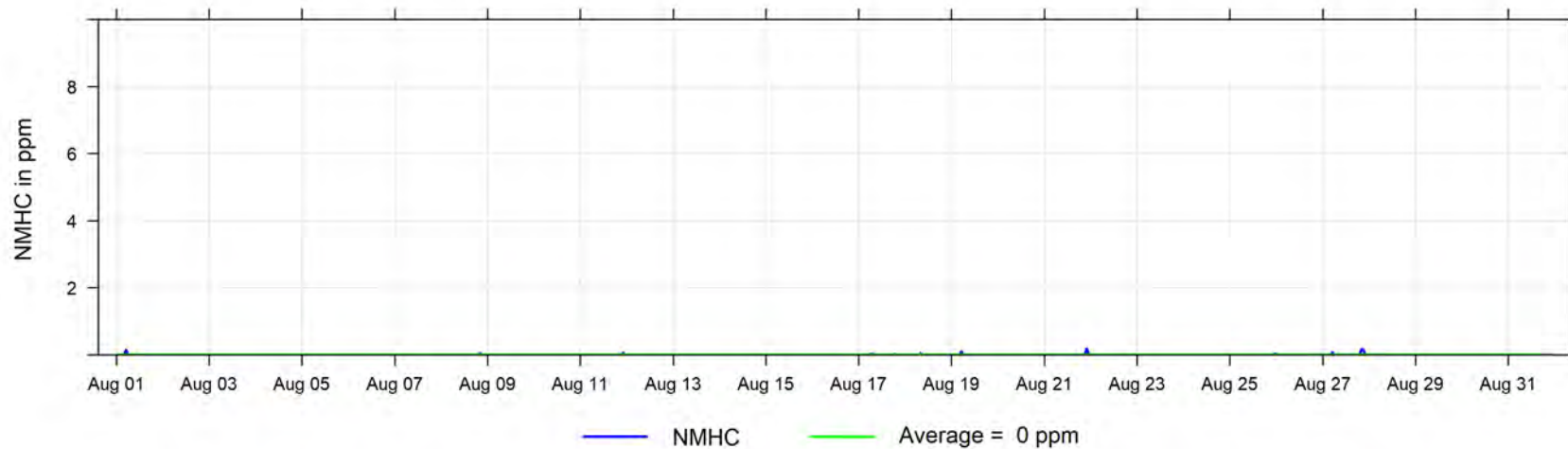
August 2025 Hourly Concentration Readings of THC (in ppm) at Happy Valley



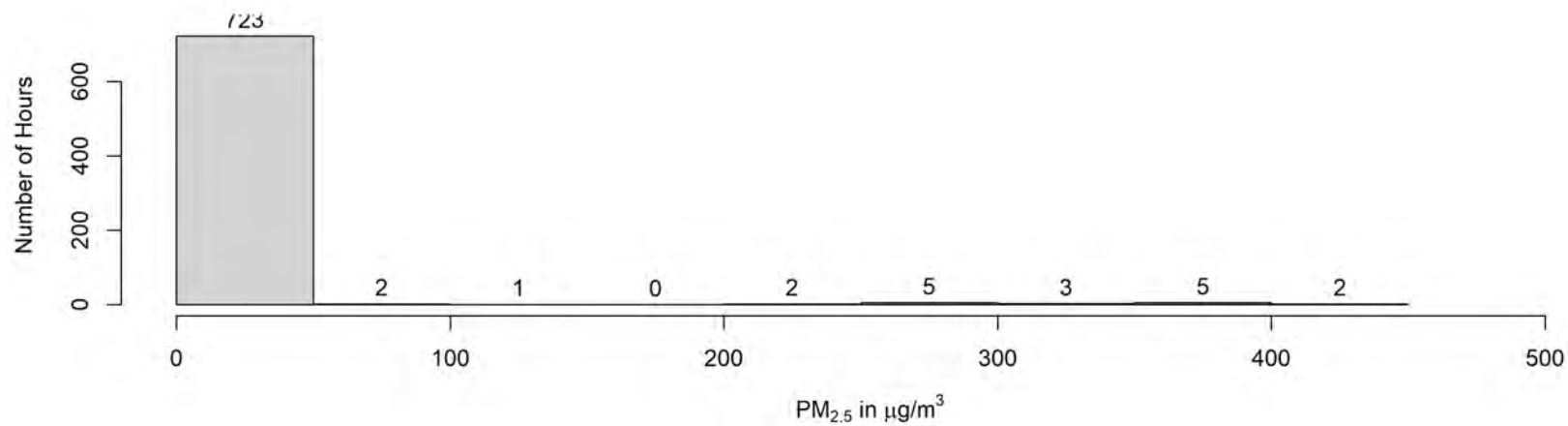
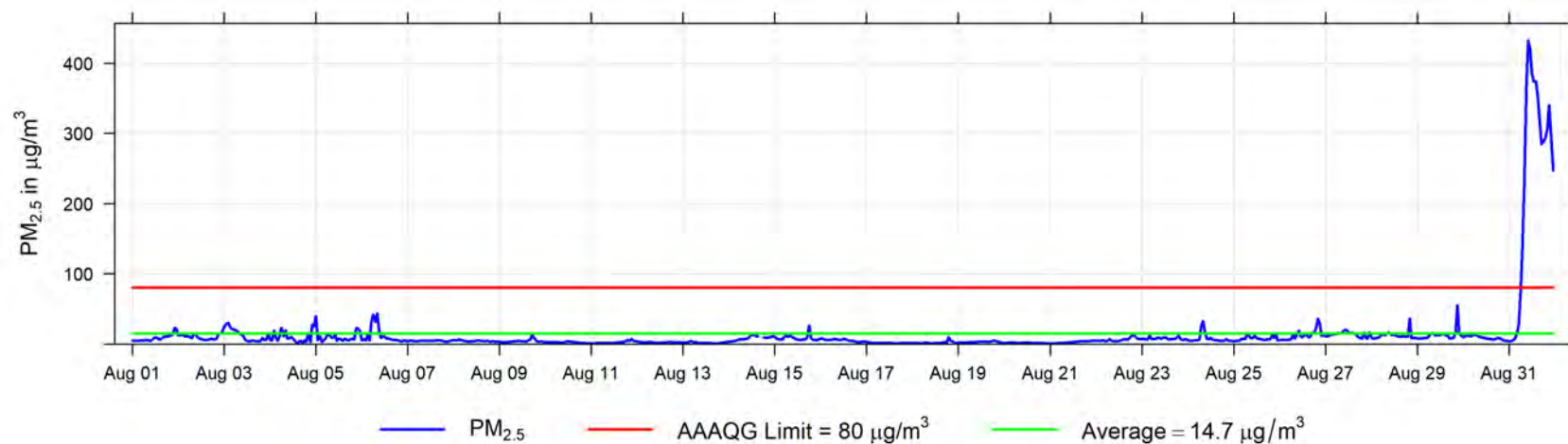
August 2025 Hourly Concentration Readings of CH₄ (in ppm) at Happy Valley



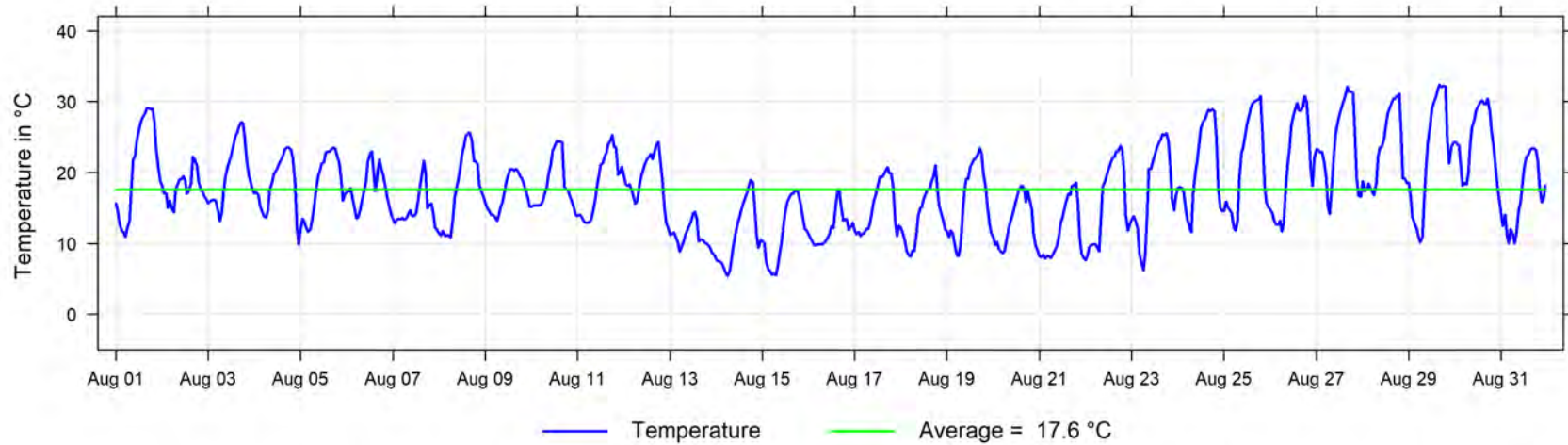
August 2025 Hourly Concentration Readings of NMHC (in ppm) at Happy Valley



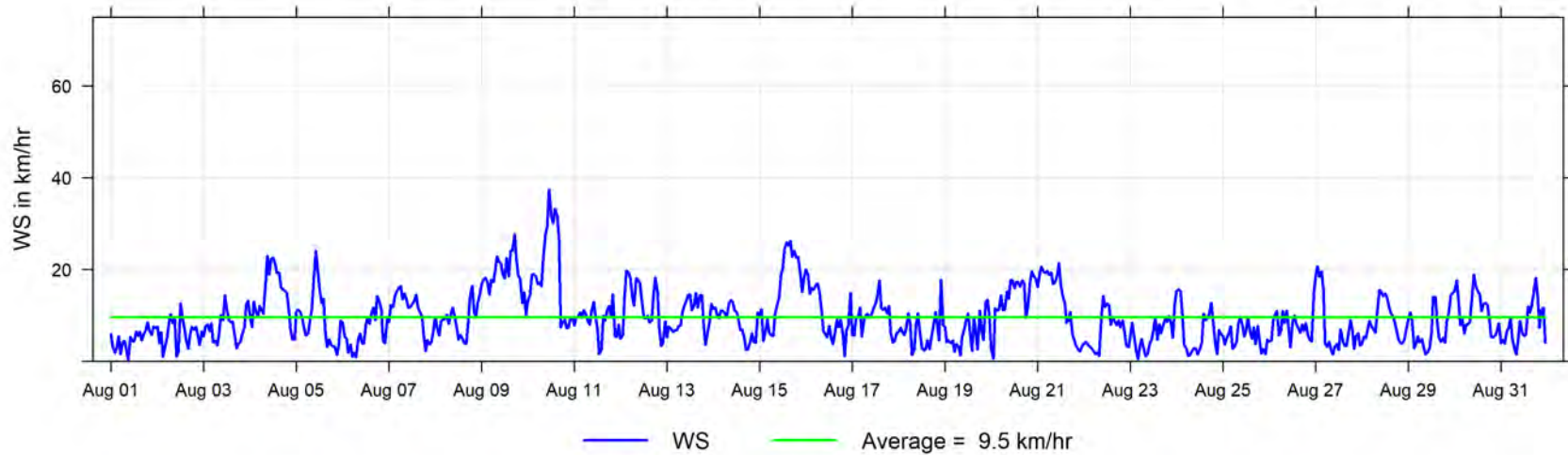
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



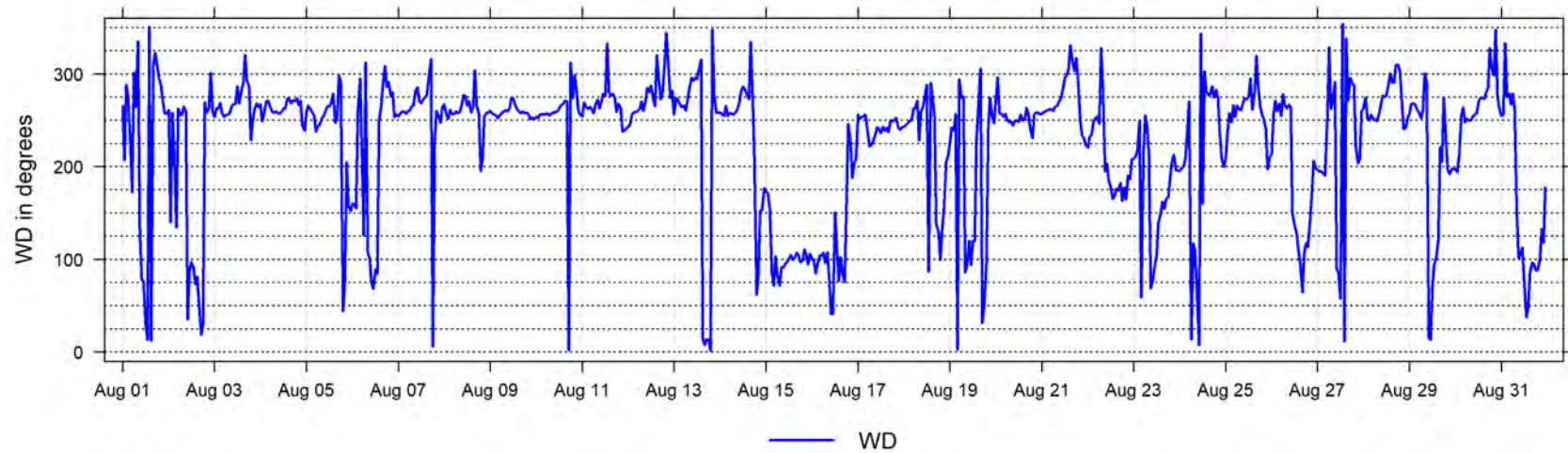
August 2025 Hourly Temperature Readings (in °C) at Happy Valley



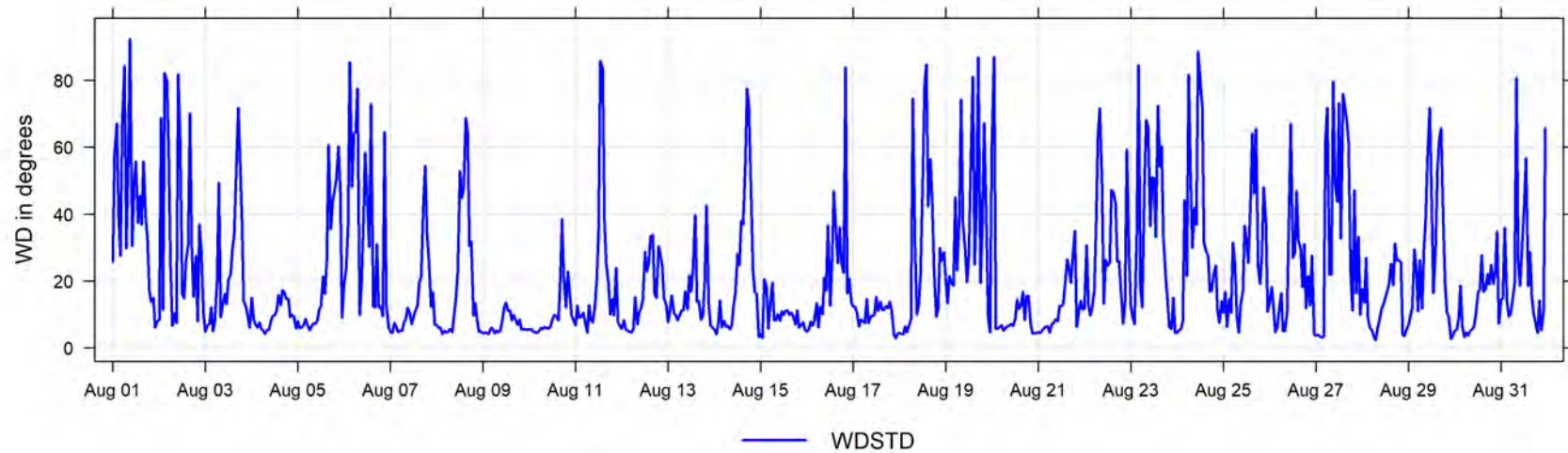
August 2025 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

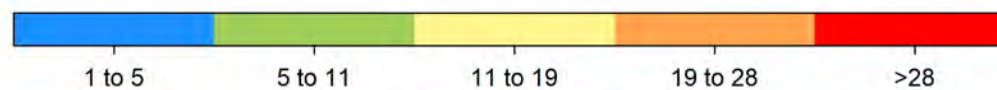
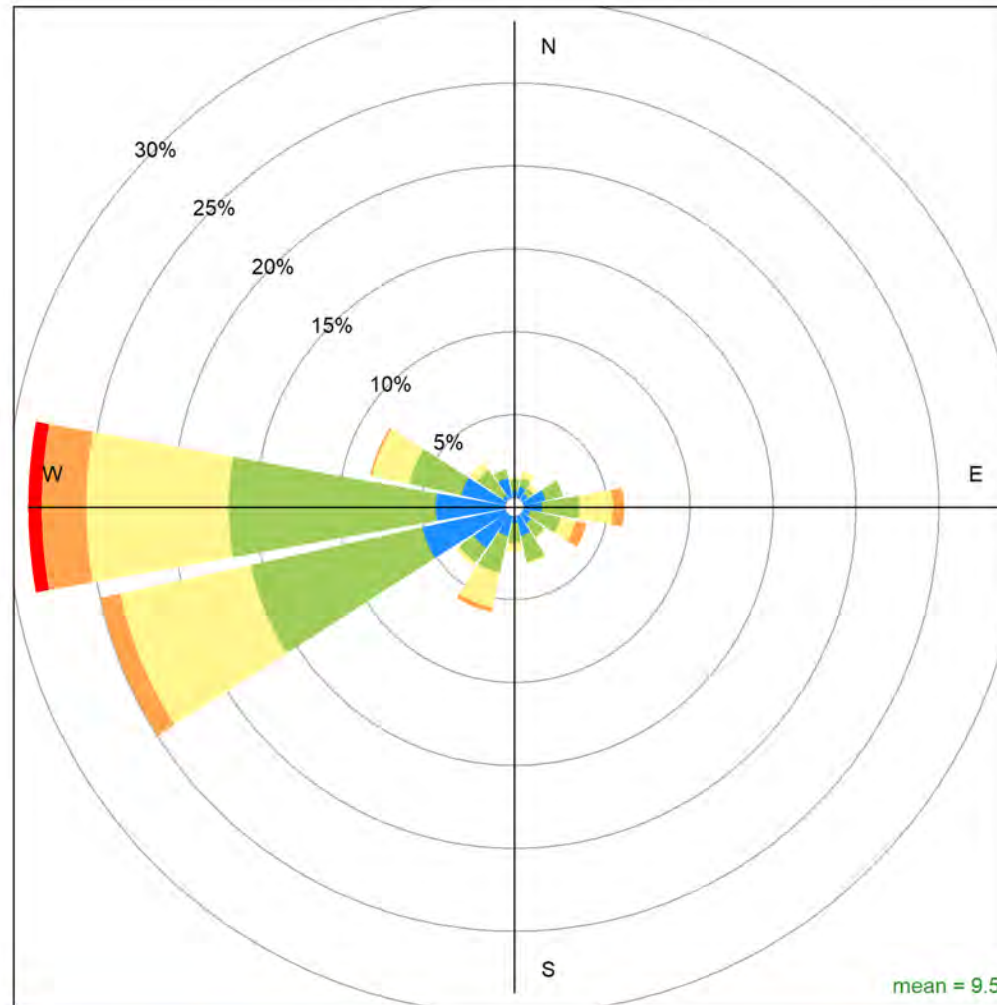


August 2025 Hourly Readings of Wind Direction (in degrees) at Happy Valley



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





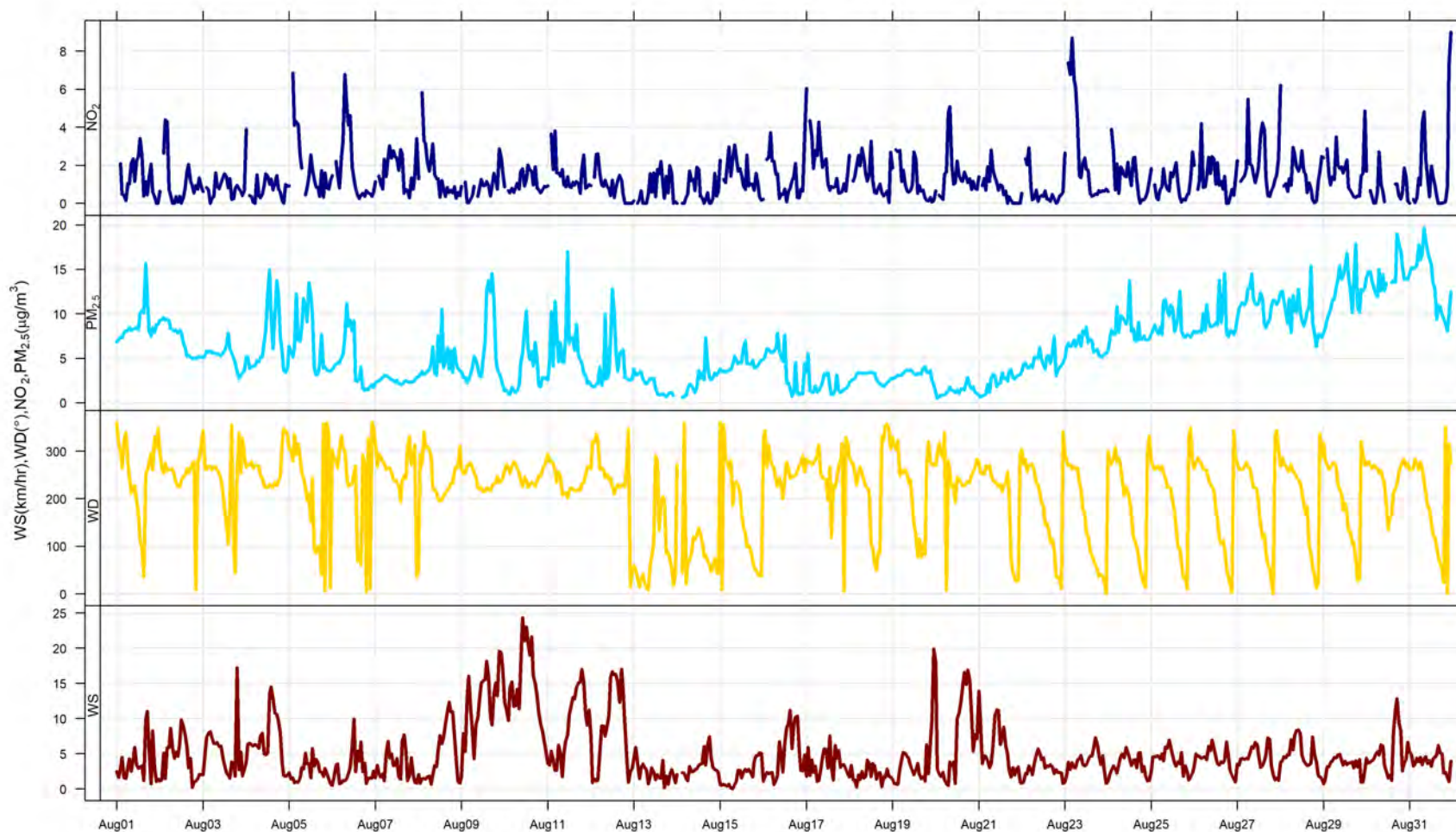
Happy Valley August 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 0.8 %

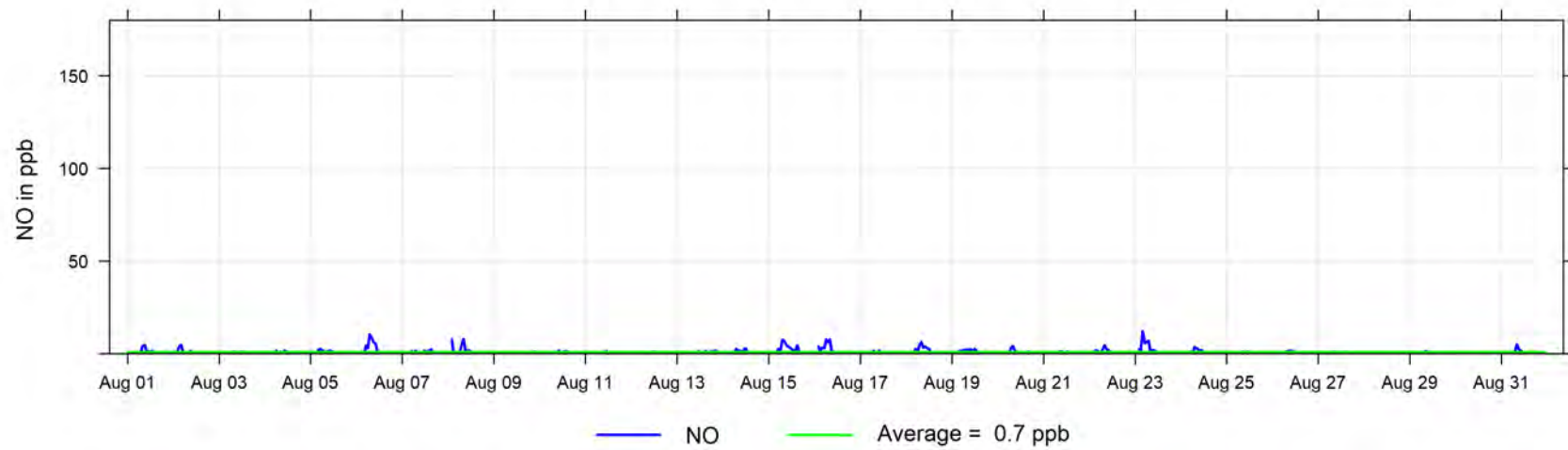
9 Milner Charts

The following pages include the charts and histograms for Milner Station

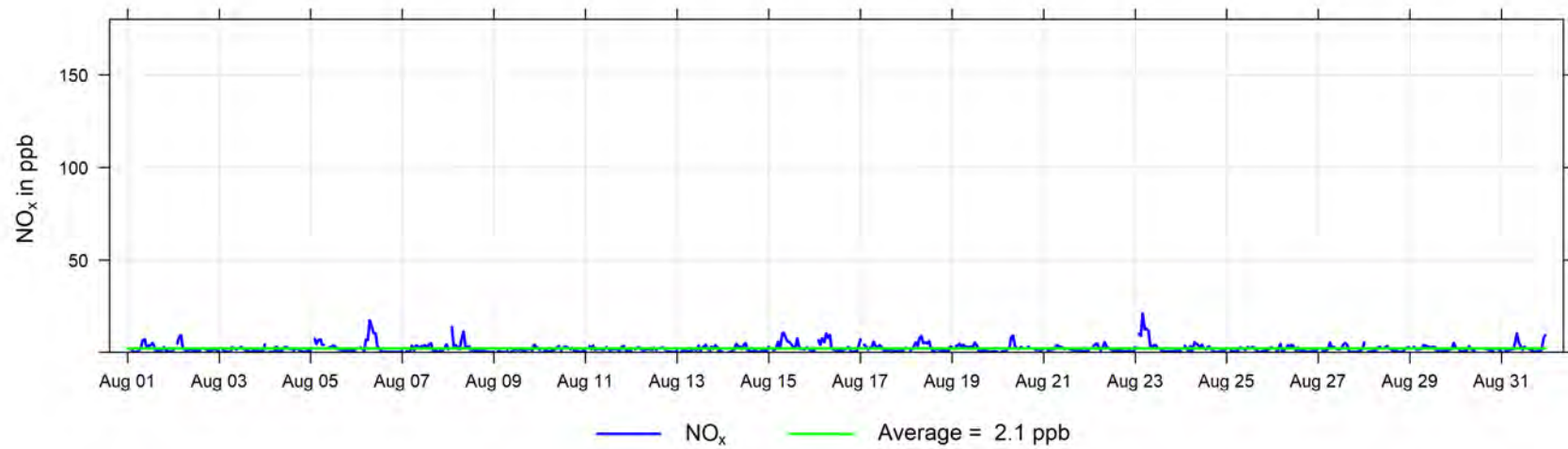
August 2025 Concentration Readings at Milner Station



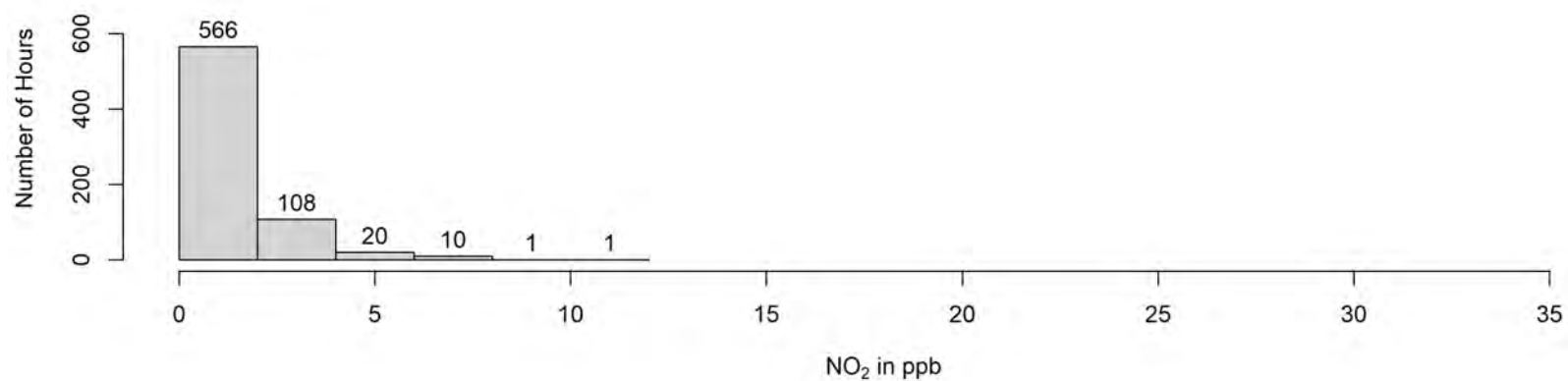
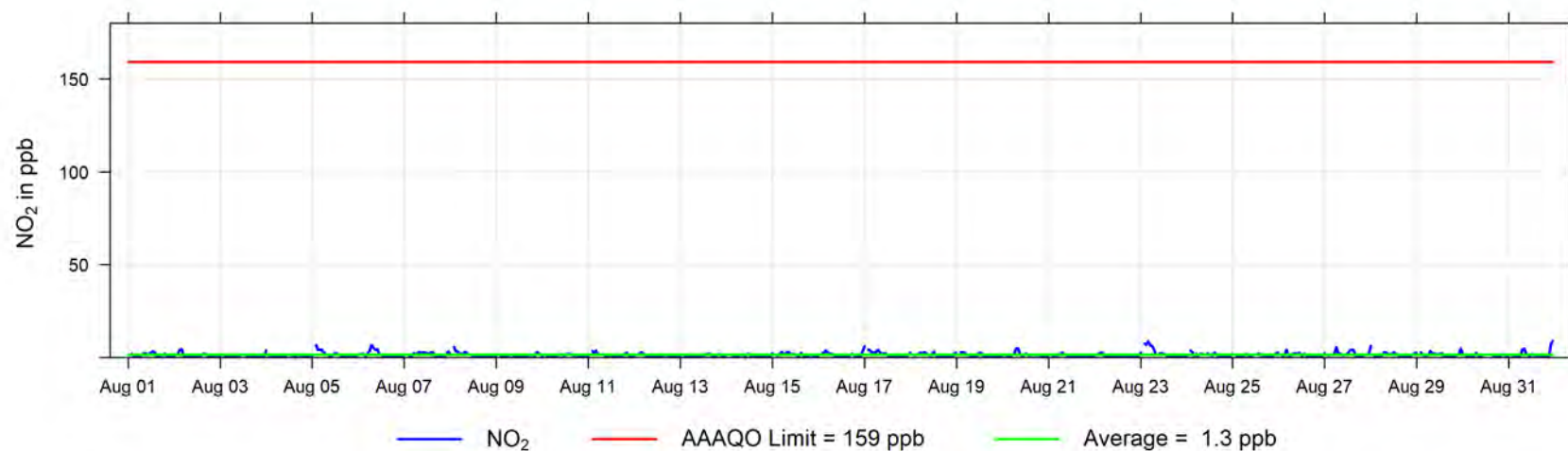
August 2025 Hourly Concentration Readings of NO (in ppb) at Milner



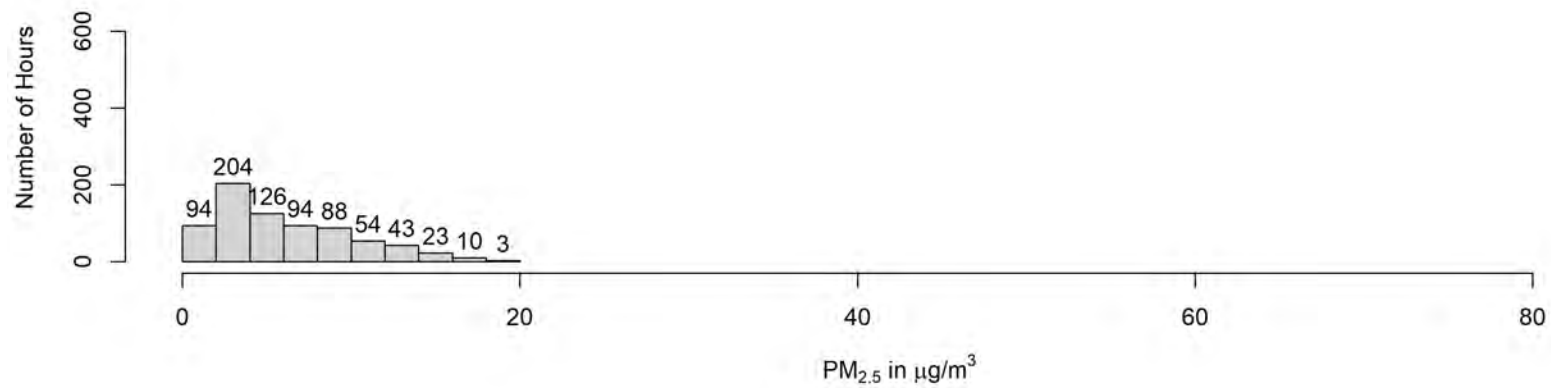
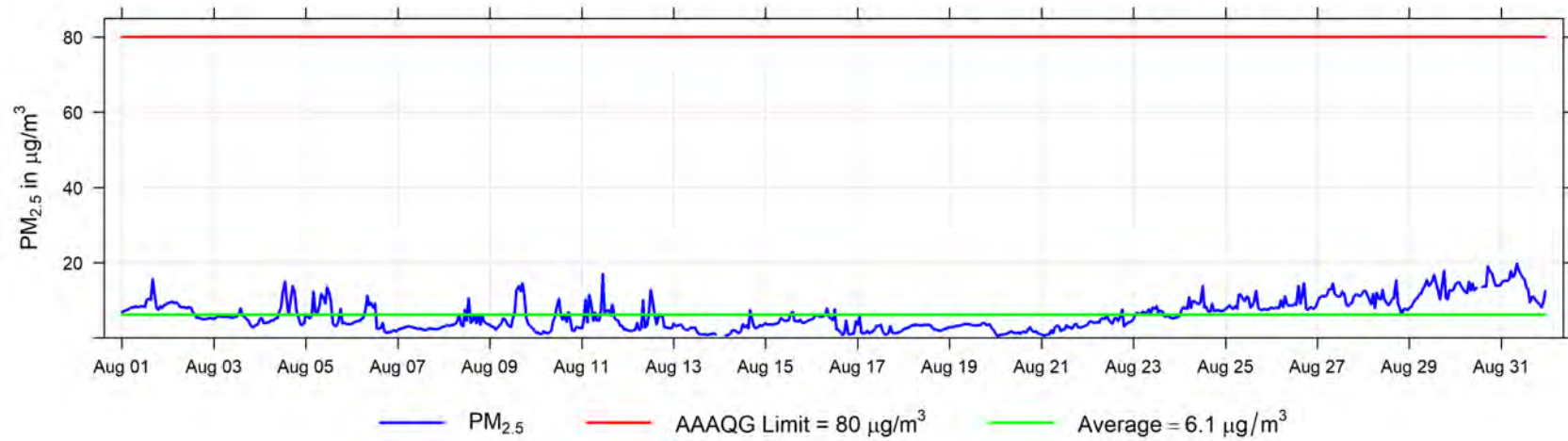
August 2025 Hourly Concentration Readings of NO_x (in ppb) at Milner



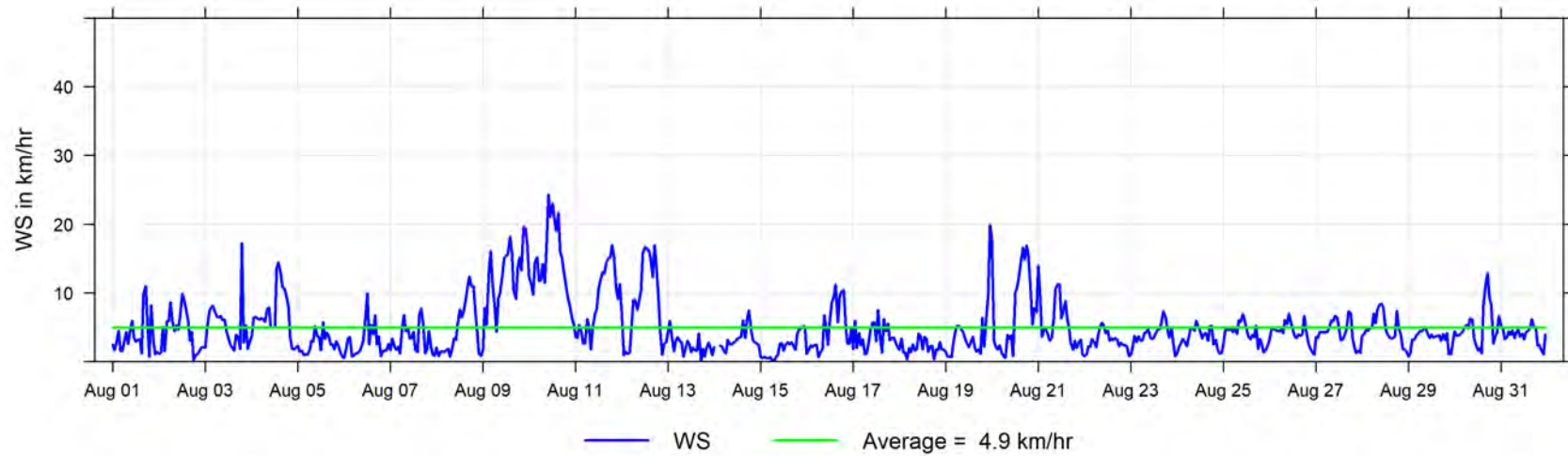
August 2025 Hourly Concentration Readings of NO₂ (in ppb) at Milner



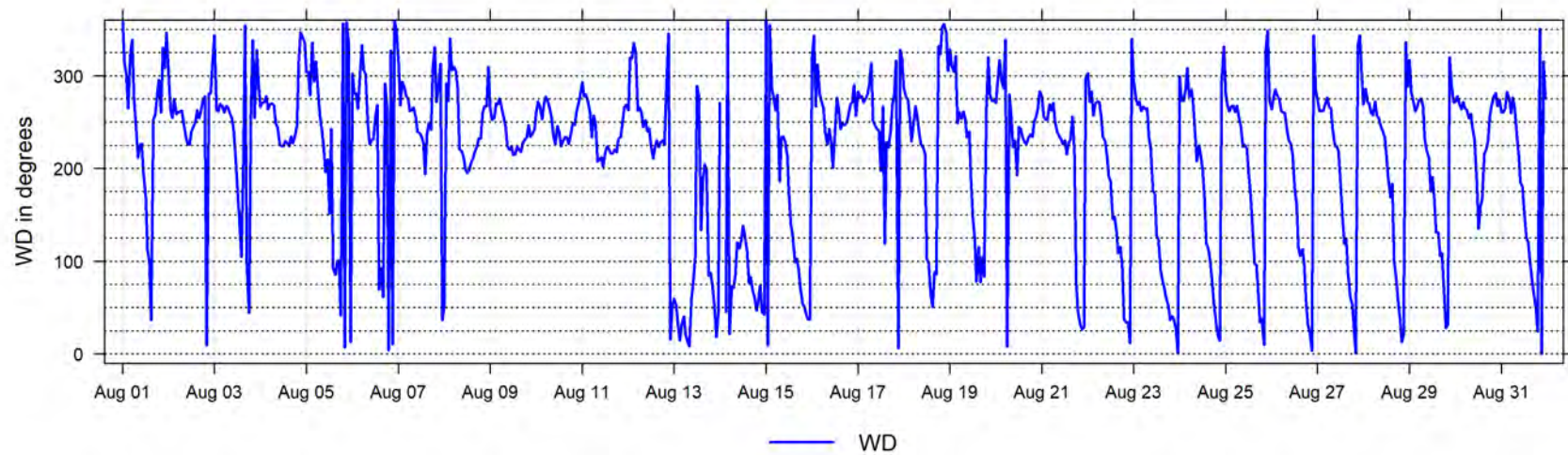
August 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



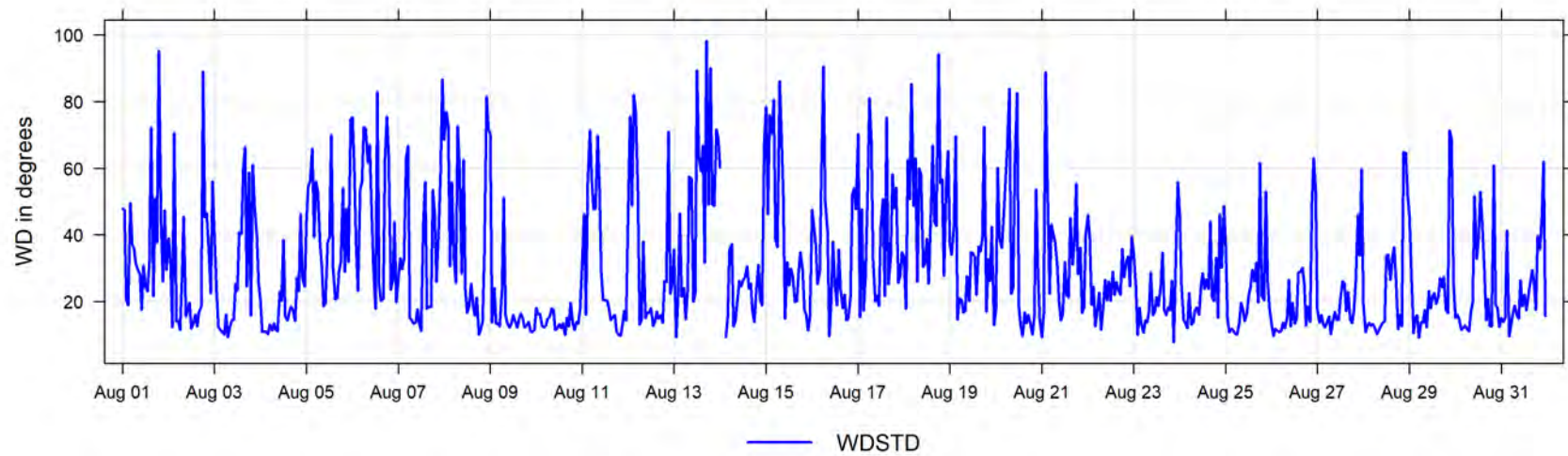
August 2025 Hourly Readings of Wind Speed (in km/hr) at Milner

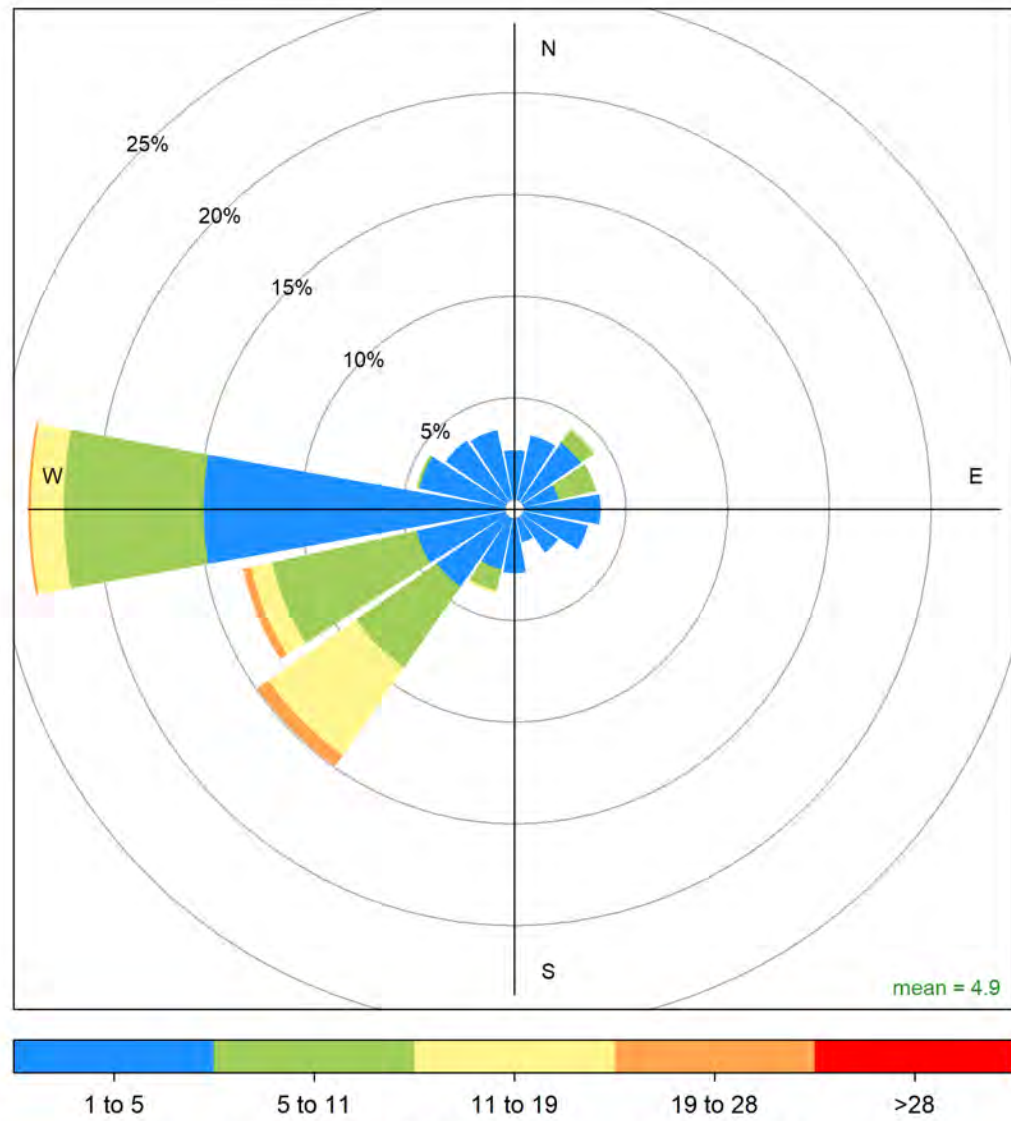


August 2025 Hourly Readings of Wind Direction (in degrees) at Milner



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





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

Calms (<1km/hr) = 6.5 %

10 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for August 2025

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
2a	Bay Tree	0.1		0.4		13-16-078-13 W6M
2b	Bay Tree	0.1		0.4		
14a	Sylvester	0.0				08-06-069-12 W6M
14b	Sylvester	0.1				
17a	Poplar			1.9		13-06-073-08 W6M
17b	Poplar			2.0		
35a	Jean Cote	0.2				12-35-079-21 W5M
35b	Jean Cote	0.2				
39a	Clouston Creek	0.2				12-01-073-22 W5M
39b	Clouston Creek	0.1				
41a	Valleyview			0.6		09-30-069-22 W5M
41b	Valleyview			0.5		
42a	Sunset House			0.5		05-32-070-19 W5M
42b	Sunset House			0.5		
47a	Kinuso		26.9			12-10-073-10 W5M
47b	Kinuso		21.9			
D3a	Duvernay 3	0.9			0.12	04-33-062-20 W5M
D3b	Duvernay 3	1.0			0.15	
G3a	Girouxville 3				0.47	14-02-077-23 W5M
G3b	Girouxville 3				Damaged	
K4a	Kakwa 4			2.9		06-18-063-04 W6M
K4b	Kakwa 4			3.0		
K1a	Kakwa 1	0.2				01-13-063-05 W6M
K1b	Kakwa 1	0.2				
K2a	Kakwa 2				0.12	08-13-063-05 W6M
K2b	Kakwa 2				0.12	
M10a	Milner Powerline			0.9		06-14-058-08 W6M
M10b	Milner Powerline			0.9		
M9Aa	Milner Pipeline	<0.1				12-14-058-08 W6M
M9Ab	Milner Pipeline	<0.1				
J2Da	Jayar2 14-8			1.1		07-08-062-03 W6M
J2Db	Jayar2 14-8			1.1		
J1Da	Jayar1 Plant	0.6				06-08-062-03 W6M
J1Db	Jayar1 Plant	0.4				
J3Da	Jayar3 Bone Yard				<0.02	14-08-062-03 W6M
J3Db	Jayar3 Bone Yard				<0.02	

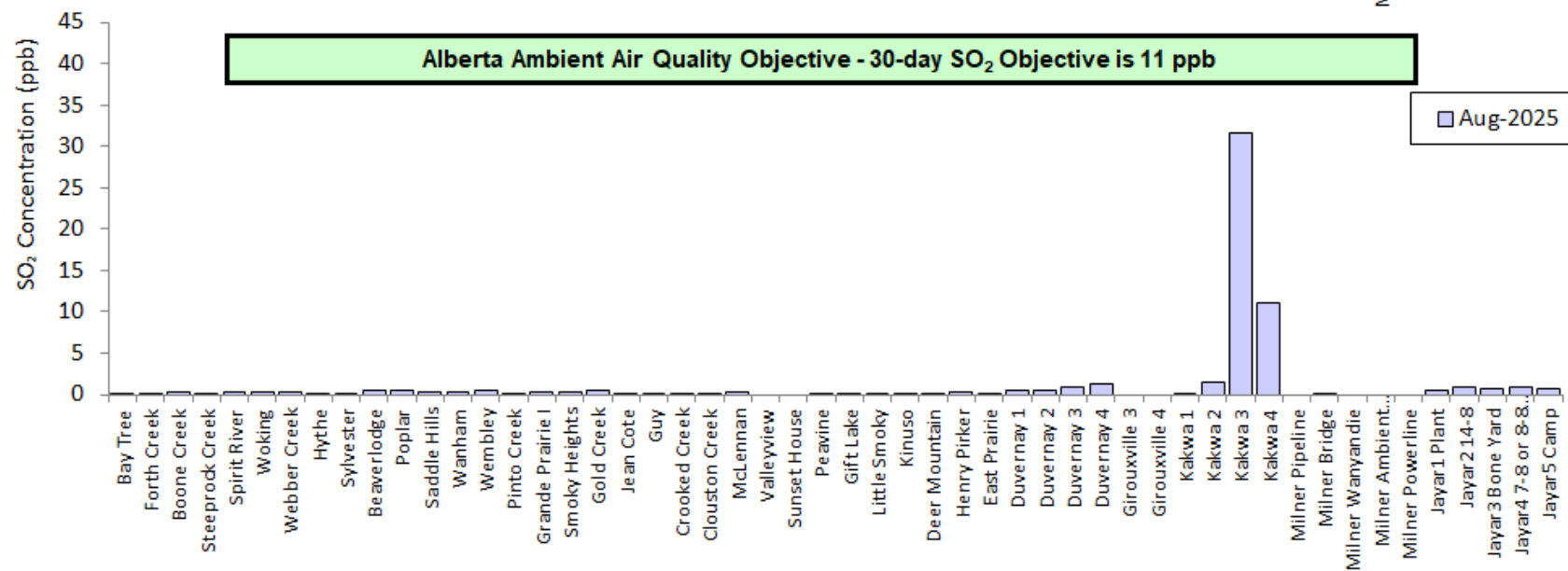
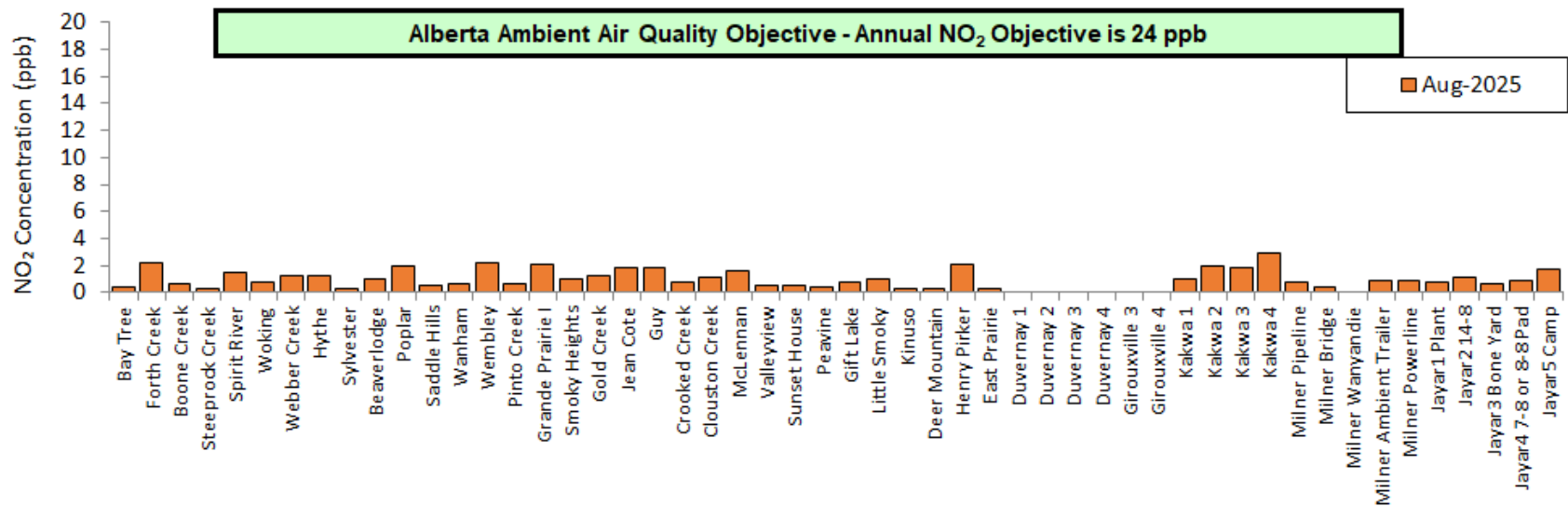
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
1	Silver Valley	0.2	-	0.9	-	08-27-081-11 W6M
2	Bay Tree	0.1	26.3	0.4	-	13-16-078-13 W6M
3	Forth Creek	0.2	-	2.2	-	04-13-082-07 W6M
5	Boone Creek	0.3	-	0.7	-	01-23-076-11 W6M
7	Steepprock Creek	0.1	-	0.3	-	09-35-072-13 W6M
9	Spirit River	0.3	-	1.5	-	08-12-079-07 W6M
10	Woking	0.3	-	0.8	-	01-13-076-07 W6M
11	Webber Creek	0.3	-	1.2	-	09-36-074-09 W6M
12	Hythe	0.2	-	1.2	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.3	-	08-06-069-12 W6M
16	Beaverlodge	0.5	-	1.0	-	15-36-071-10 W6M
17	Poplar	0.4	-	1.9	-	13-06-073-08 W6M
18	Saddle Hills	0.3	-	0.5	-	04-25-074-07 W6M
19	Wanham	0.3	-	0.6	-	16-22-077-03 W6M
24	Wembley	0.4	-	2.2	-	12-31-070-08 W6M
25	Pinto Creek	0.1	-	0.6	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	2.0	-	08-15-071-06 W6M
29	Smoky Heights	0.3	-	1.0	-	04-06-075-02 W6M
32	Gold Creek	0.5	-	1.2	-	06-33-067-05 W6M
35	Jean Cote	0.2	-	1.8	-	12-35-079-21 W5M
36	Guy	0.1	-	1.8	0.1	03-04-076-22 W5M
37	Crooked Creek	0.2	25.5	0.7	-	16-01-071-26 W5M
39	Clouston Creek	0.2	-	1.1	-	12-01-073-22 W5M
40	McLennan	0.3	-	1.6	-	03-29-077-19 W5M
41	Valleyview	-	-	0.6	-	09-30-069-22 W5M
42	Sunset House	-	-	0.5	-	05-32-070-19 W5M
44	Peavine	0.1	-	0.4	-	03-05-079-15 W5M
45	Gift Lake	0.1	-	0.7	-	10-07-079-12 W5M
46	Little Smoky	0.2	-	1.0	-	12-01-065-21 W5M
47	Kinuso	0.1	24.4	0.3	-	12-10-073-10 W5M
48	Deer Mountain	0.2	-	0.3	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	2.1	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.3	-	11-13-079-08 W6M
D1	Duvernay 1	0.6	-	-	0.10	04-33-062-20 W5M
D2	Duvernay 2	0.5	-	-	0.07	04-33-062-20 W5M
D3	Duvernay 3	0.9	-	-	0.13	04-33-062-20 W5M
D4	Duvernay 4	1.3	-	-	0.14	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	0.47 & Damaged	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.3	04-08-077-22 W5M
K1	Kakwa 1	0.2	-	1.0	<0.02	01-13-063-05 W6M
K2	Kakwa 2	1.4	-	2.0	0.12	08-13-063-05 W6M
K3	Kakwa 3	31.7	-	1.8	0.51	12-18-063-04 W6M
K4	Kakwa 4	11.1	-	3.0	0.42	06-18-063-04 W6M
M1	Milner Pipeline	<0.1	-	0.7	-	12-14-058-08 W6M
M2	Milner Bridge	0.1	-	0.4	-	08-06-057-08 W6M
M3	Milner Wanyandie	-	-	-	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	<0.1	-	0.9	-	09-15-058-08 W6M
M5	Milner Powerline	<0.1	-	0.9	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.5	-	0.7	<0.02	06-08-062-03 W6M
J2	Jayar2 14-8	0.8	-	1.1	0.19	07-08-062-03 W6M
J3	Jayar3 Bone Yard	0.7	-	0.6	<0.02	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	0.8	-	0.9	0.02	10-08-062-03 W6M
J5	Jayar5 Camp	0.6	-	1.7	0.17	11-08-062-03 W6M

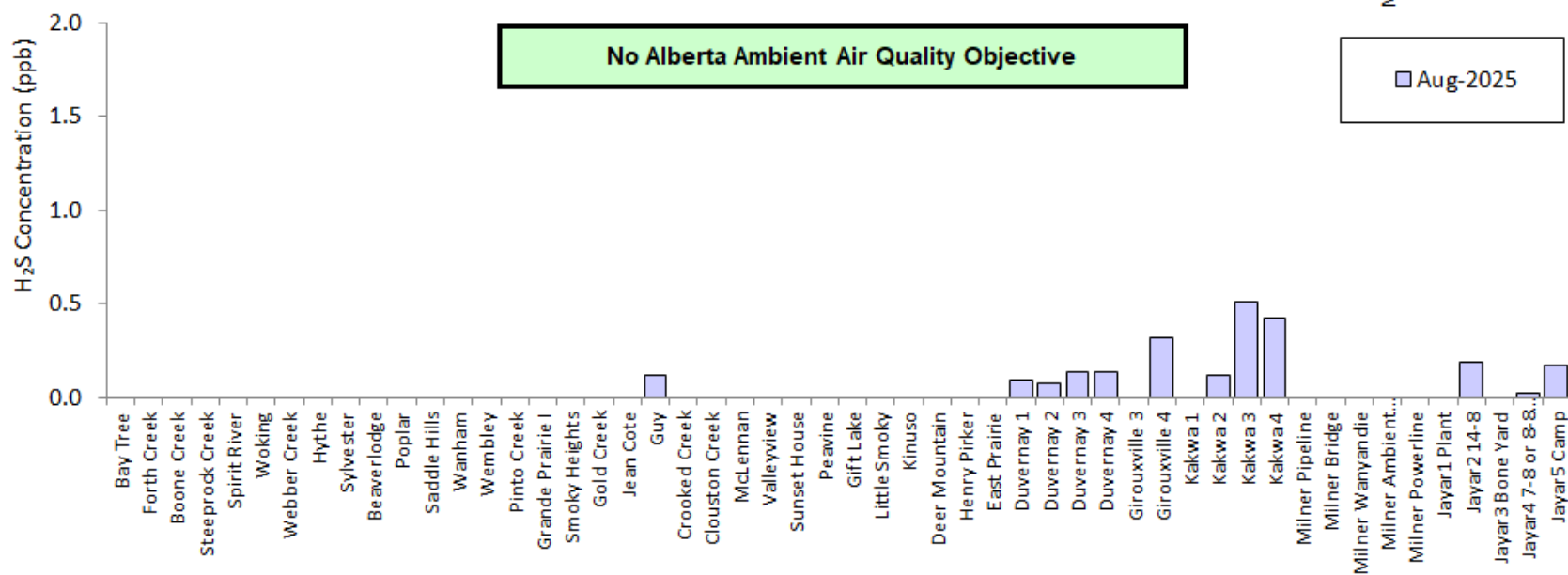
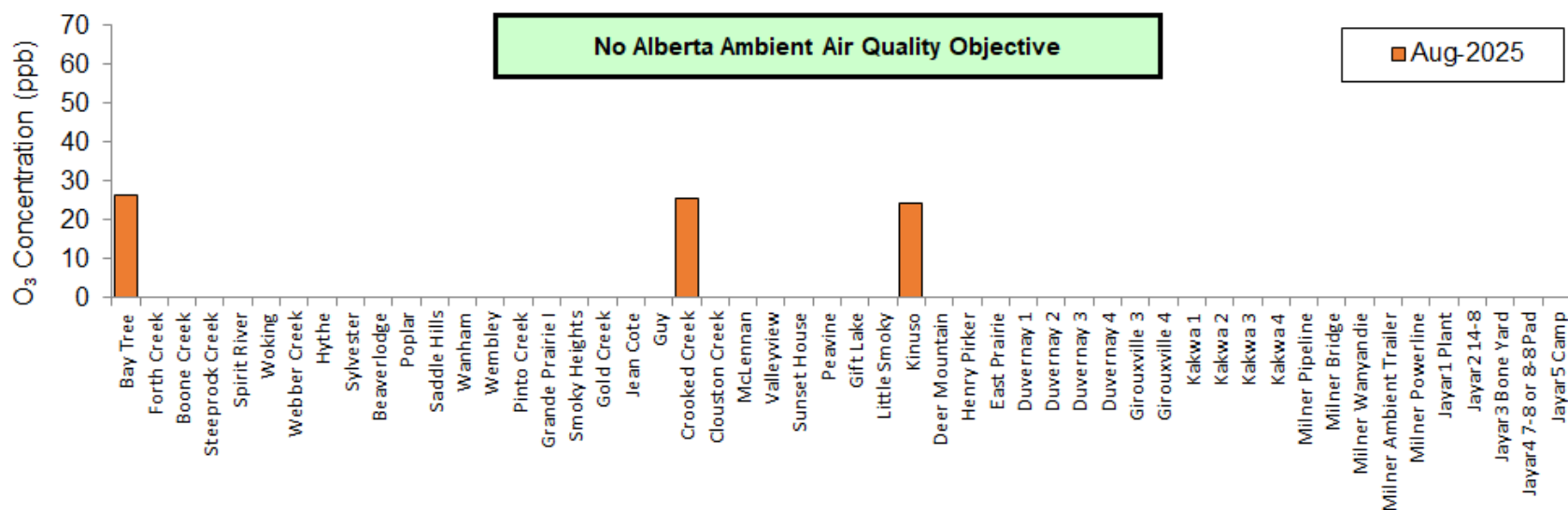
Passive Summary for August 2025

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

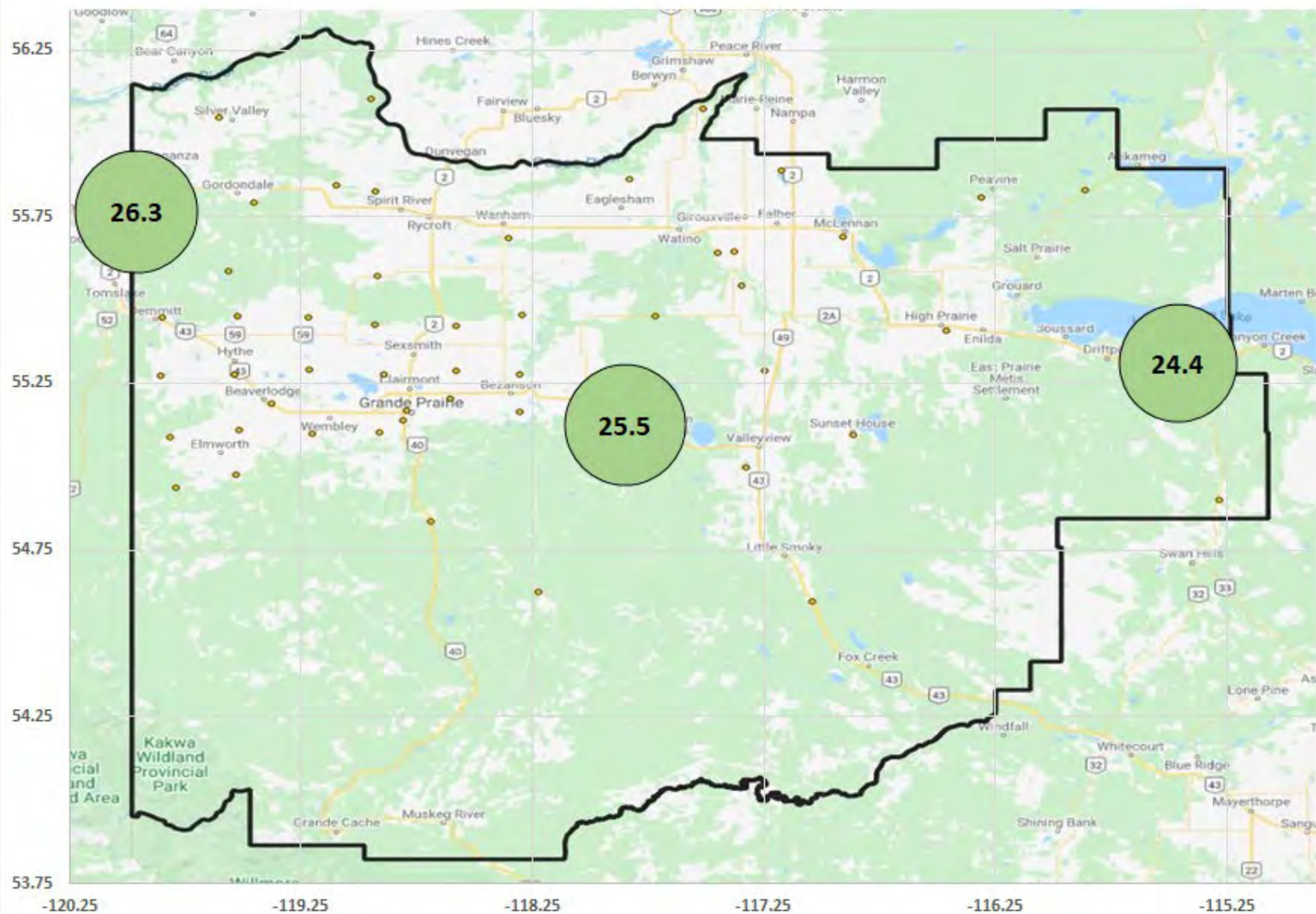
Passive Summary for August 2025 (PAZA)				
Mean	1.3	25.4	1.1	0.2
Standard Deviation	4.9	1.0	0.6	0.1
Minimum	0.1	24.4	0.3	0.0
	Guy (#36)	Kinuso (#47)	Sylvester (#14)	Jayar4 7-8 or 8-8 Pad
Maximum	31.7	26.3	3.0	0.5
	Kakwa 3 (#K3)	Bay Tree (#2)	Kakwa 4 (#K4)	Kakwa 3 (#K3)

Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.5	23.9	3.3	-
Beaverlodge Passive (#16)	0.5	-	1.0	-
PAZA Henry Pirker Station	0.3	21.5	5.5	0.1
Henry Pirker passive (#49)	0.3	-	2.1	-
Milner Station	-	-	1.3	-
Milner passive	<0.1	-	0.9	-

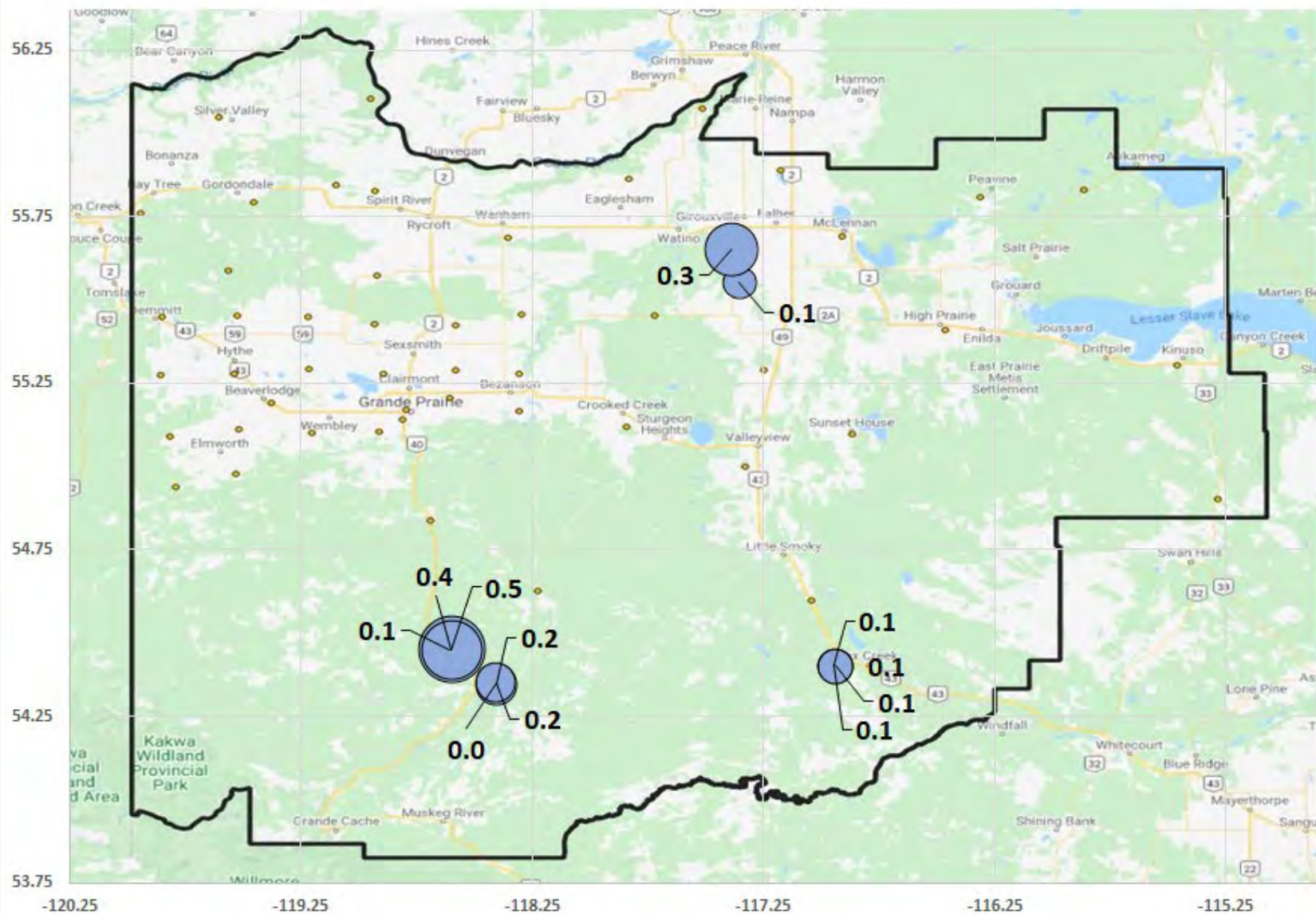




O₃ Monthly Average (units in ppb)



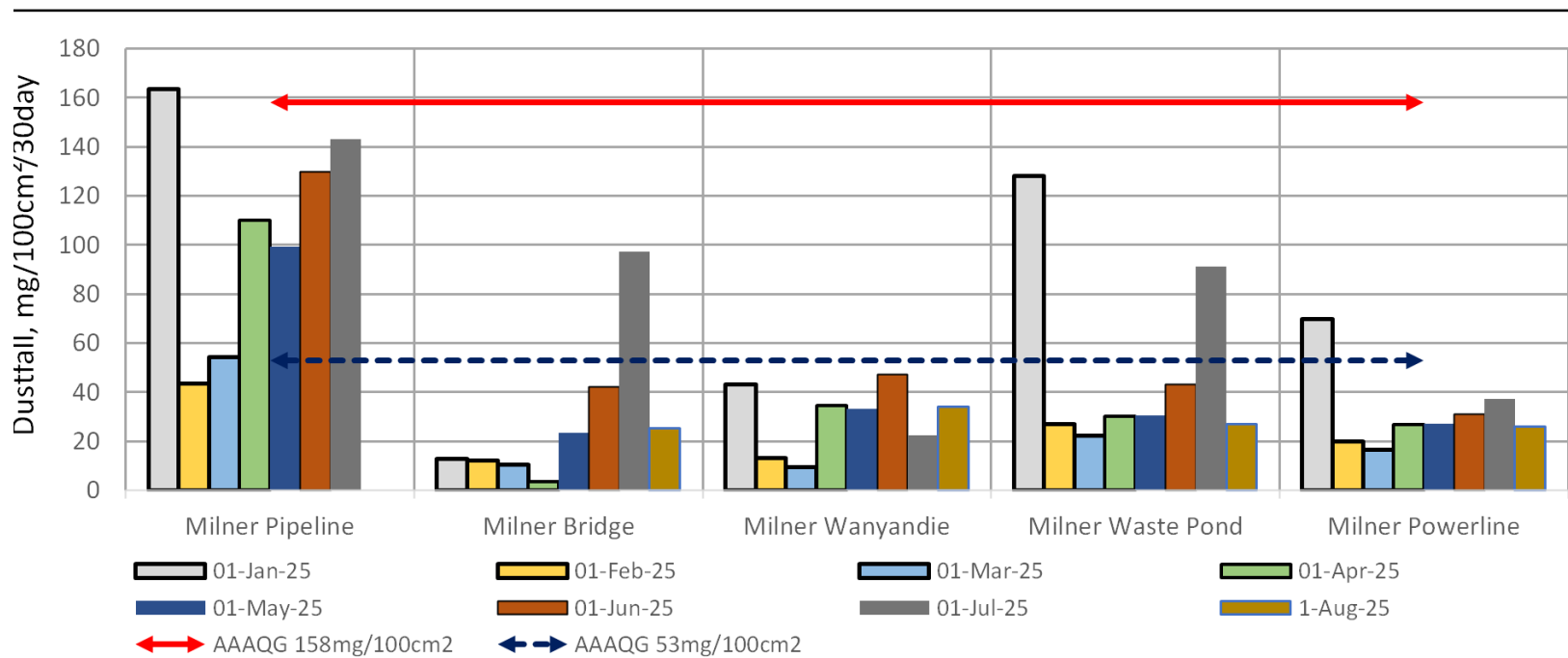
H₂S Monthly Average (units in ppb)



11 Dustfall Monitoring Data

Milner Dustfall Samples August 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
August	2025	Milner Pipeline	-	-	30	damaged
August	2025	Milner Bridge	25.2	1.6	30	
August	2025	Milner Wanyandie	34.1	-	30	dry sample
August	2025	Milner Waste Pond	26.8	10.6	30	
August	2025	Milner Powerline	-	-	30	dry sample
August	2025	Milner Powerline Dup	26.0	9.7	30	



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

August 2025