



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

June 2025

July 31, 2025

Alberta Environment and Protected Areas

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

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

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of June 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 June 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 were 342, 1hr readings above the PM_{2.5} AAAQG (80µg/m³)
- There was one, 48hr reading above the PM_{2.5} AAAQO (29µg/m³)
- There were two SO₂ passives above the 30day SO₂ AAAQO (11ppb)

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	442625	PM _{2.5}	02-Jun-25	04:00	05:00	148.1	8.4	269
Beaverlodge	442625	PM _{2.5}	02-Jun-25	05:00	06:00	138.0	0.6	269
Beaverlodge	442625	PM _{2.5}	03-Jun-25	07:00	08:00	145.4	9.6	302
Beaverlodge	442625	PM _{2.5}	03-Jun-25	13:00	14:00	108.1	4.3	193
Beaverlodge	442625	PM _{2.5}	03-Jun-25	16:00	17:00	89.8	4.6	255
Beaverlodge	442625	PM _{2.5}	03-Jun-25	17:00	18:00	112.3	6.9	205
Beaverlodge	442625	PM _{2.5}	03-Jun-25	18:00	19:00	104.6	9.7	157
Beaverlodge	442625	PM _{2.5}	03-Jun-25	19:00	20:00	100.3	9.4	139
Beaverlodge	442625	PM _{2.5}	03-Jun-25	20:00	21:00	100.1	9.9	120
Beaverlodge	442625	PM _{2.5}	03-Jun-25	21:00	22:00	107.8	8.0	81
Beaverlodge	442625	PM _{2.5}	03-Jun-25	22:00	23:00	86.4	6.9	86
Beaverlodge	442625	PM _{2.5}	06-Jun-25	16:00	17:00	82.4	35.1	278
Beaverlodge	442625	PM _{2.5}	06-Jun-25	17:00	18:00	84.0	31.9	281
Beaverlodge	442625	PM _{2.5}	06-Jun-25	21:00	22:00	99.0	6.4	333
Beaverlodge	442625	PM _{2.5}	06-Jun-25	22:00	23:00	114.2	4.8	299
Beaverlodge	442625	PM _{2.5}	06-Jun-25	23:00	00:00	105.3	1.5	15
Beaverlodge	442625	PM _{2.5}	07-Jun-25	00:00	01:00	247.7	6.9	301
Beaverlodge	442625	PM _{2.5}	07-Jun-25	01:00	02:00	385.5	5.5	310
Beaverlodge	442625	PM _{2.5}	07-Jun-25	02:00	03:00	553.1	8.5	327
Beaverlodge	442625	PM _{2.5}	07-Jun-25	03:00	04:00	415.8	10.8	324
Beaverlodge	442625	PM _{2.5}	07-Jun-25	04:00	05:00	337.7	7.4	319
Beaverlodge	442625	PM _{2.5}	07-Jun-25	05:00	06:00	354.5	7.7	329
Beaverlodge	442625	PM _{2.5}	07-Jun-25	06:00	07:00	298.6	3.7	307
Beaverlodge	442625	PM _{2.5}	07-Jun-25	07:00	08:00	338.1	5.1	269
Beaverlodge	442625	PM _{2.5}	07-Jun-25	08:00	09:00	316.2	6.1	244
Beaverlodge	442625	PM _{2.5}	07-Jun-25	09:00	10:00	170.5	9.4	282
Beaverlodge	442625	PM _{2.5}	07-Jun-25	10:00	11:00	185.1	13.4	305
Beaverlodge	442625	PM _{2.5}	07-Jun-25	15:00	16:00	87.8	12.5	328
Beaverlodge	442625	PM _{2.5}	08-Jun-25	01:00	02:00	99.4	2.8	145
Beaverlodge	442625	PM _{2.5}	08-Jun-25	02:00	03:00	112.3	4.1	115
Beaverlodge	442625	PM _{2.5}	08-Jun-25	03:00	04:00	122.9	3.4	97
Beaverlodge	442625	PM _{2.5}	08-Jun-25	04:00	05:00	115.8	3.9	79
Beaverlodge	442625	PM _{2.5}	08-Jun-25	05:00	06:00	84.0	2.2	115
Beaverlodge	442625	PM _{2.5}	08-Jun-25	23:00	00:00	202.0	17.2	269
Beaverlodge	442625	PM _{2.5}	09-Jun-25	00:00	01:00	186.9	19.6	283
Beaverlodge	442625	PM _{2.5}	09-Jun-25	01:00	02:00	290.3	6.4	228
Beaverlodge	442625	PM _{2.5}	09-Jun-25	07:00	08:00	195.9	14.3	293
Beaverlodge	442625	PM _{2.5}	09-Jun-25	08:00	09:00	124.8	25.1	276
Beaverlodge	442625	PM _{2.5}	09-Jun-25	09:00	10:00	143.2	25.5	278
Beaverlodge	442625	PM _{2.5}	09-Jun-25	10:00	11:00	131.1	23.0	290
Beaverlodge	442625	PM _{2.5}	09-Jun-25	11:00	12:00	130.6	21.6	302
Beaverlodge	442625	PM _{2.5}	09-Jun-25	12:00	13:00	152.0	25.5	283
Beaverlodge	442625	PM _{2.5}	09-Jun-25	13:00	14:00	222.9	27.3	283
Beaverlodge	442625	PM _{2.5}	09-Jun-25	14:00	15:00	370.5	25.1	293
Beaverlodge	442625	PM _{2.5}	09-Jun-25	15:00	16:00	188.1	25.0	292
Beaverlodge	442625	PM _{2.5}	09-Jun-25	16:00	17:00	151.1	24.1	299

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Beaverlodge	442625	PM _{2.5}	09-Jun-25	17:00	18:00	107.7	19.8	301
Beaverlodge	442625	PM _{2.5}	09-Jun-25	23:00	00:00	89.1	4.5	68
Beaverlodge	442625	PM _{2.5}	10-Jun-25	00:00	01:00	108.8	5.3	39
Beaverlodge	442625	PM _{2.5}	10-Jun-25	01:00	02:00	111.6	7.2	18
Beaverlodge	442625	PM _{2.5}	10-Jun-25	02:00	03:00	117.0	8.1	22
Beaverlodge	442625	PM _{2.5}	10-Jun-25	03:00	04:00	162.3	11.9	18
Beaverlodge	442625	PM _{2.5}	10-Jun-25	04:00	05:00	192.3	10.7	20
Beaverlodge	442625	PM _{2.5}	10-Jun-25	05:00	06:00	184.9	7.4	334
Beaverlodge	442625	PM _{2.5}	10-Jun-25	06:00	07:00	192.1	4.9	330
Beaverlodge	442625	PM _{2.5}	10-Jun-25	07:00	08:00	213.8	3.9	340
Beaverlodge	442625	PM _{2.5}	10-Jun-25	08:00	09:00	236.4	5.1	324
Beaverlodge	442625	PM _{2.5}	10-Jun-25	09:00	10:00	345.3	5.0	10
Beaverlodge	442625	PM _{2.5}	10-Jun-25	10:00	11:00	350.6	6.3	19
Beaverlodge	442625	PM _{2.5}	10-Jun-25	11:00	12:00	321.7	8.3	40
Beaverlodge	442625	PM _{2.5}	10-Jun-25	12:00	13:00	303.3	7.6	49
Beaverlodge	442625	PM _{2.5}	10-Jun-25	13:00	14:00	176.4	6.7	8
Beaverlodge	442625	PM _{2.5}	10-Jun-25	14:00	15:00	134.7	8.0	341
Beaverlodge	442625	PM _{2.5}	10-Jun-25	15:00	16:00	133.0	8.8	341
Beaverlodge	442625	PM _{2.5}	10-Jun-25	16:00	17:00	140.2	11.6	6
Beaverlodge	442625	PM _{2.5}	10-Jun-25	17:00	18:00	215.4	14.3	21
Beaverlodge	442625	PM _{2.5}	10-Jun-25	18:00	19:00	203.5	11.5	21
Beaverlodge	442625	PM _{2.5}	10-Jun-25	19:00	20:00	188.3	7.6	37
Beaverlodge	442625	PM _{2.5}	10-Jun-25	20:00	21:00	187.7	5.8	33
Beaverlodge	442625	PM _{2.5}	10-Jun-25	21:00	22:00	194.1	6.9	43
Beaverlodge	442625	PM _{2.5}	10-Jun-25	22:00	23:00	157.8	6.0	47
Beaverlodge	442625	PM _{2.5}	10-Jun-25	23:00	00:00	155.5	5.2	53
Beaverlodge	442625	PM _{2.5}	11-Jun-25	00:00	01:00	170.2	1.0	336
Beaverlodge	442625	PM _{2.5}	11-Jun-25	01:00	02:00	136.1	8.2	30
Beaverlodge	442625	PM _{2.5}	11-Jun-25	02:00	03:00	156.1	6.6	35
Beaverlodge	442625	PM _{2.5}	11-Jun-25	03:00	04:00	155.9	5.8	52
Beaverlodge	442625	PM _{2.5}	11-Jun-25	04:00	05:00	80.7	1.7	167
Beaverlodge	442625	PM _{2.5}	11-Jun-25	05:00	06:00	92.0	2.7	183
Beaverlodge	442625	PM _{2.5}	12-Jun-25	00:00	01:00	146.2	22.2	79
Beaverlodge	442625	PM _{2.5}	12-Jun-25	01:00	02:00	162.4	23.8	83
Beaverlodge	442625	PM _{2.5}	12-Jun-25	02:00	03:00	129.7	21.3	84
Beaverlodge	442625	PM _{2.5}	12-Jun-25	03:00	04:00	101.8	21.5	82
Dunes	442626	PM _{2.5}	03-Jun-25	13:00	14:00	101.6	7.9	34
Dunes	442626	PM _{2.5}	07-Jun-25	03:00	04:00	162.0	0.9	294
Dunes	442626	PM _{2.5}	07-Jun-25	04:00	05:00	208.3	0.4	302
Dunes	442626	PM _{2.5}	07-Jun-25	05:00	06:00	192.9	0.8	255
Dunes	442626	PM _{2.5}	07-Jun-25	06:00	07:00	215.3	1.9	251
Dunes	442626	PM _{2.5}	07-Jun-25	07:00	08:00	189.5	3.5	298
Dunes	442626	PM _{2.5}	07-Jun-25	08:00	09:00	126.8	3.6	305
Dunes	442626	PM _{2.5}	07-Jun-25	09:00	10:00	82.3	3.3	302
Dunes	442626	PM _{2.5}	09-Jun-25	14:00	15:00	126.0	11.4	312
Dunes	442626	PM _{2.5}	09-Jun-25	15:00	16:00	183.3	10.3	313
Dunes	442626	PM _{2.5}	09-Jun-25	16:00	17:00	121.3	9.6	308
Dunes	442626	PM _{2.5}	09-Jun-25	17:00	18:00	92.1	8.3	318
Dunes	442626	PM _{2.5}	10-Jun-25	06:00	07:00	88.6	0.8	310
Dunes	442626	PM _{2.5}	10-Jun-25	07:00	08:00	117.4	2.3	292
Dunes	442626	PM _{2.5}	10-Jun-25	08:00	09:00	141.7	1.8	273
Dunes	442626	PM _{2.5}	10-Jun-25	09:00	10:00	162.0	2.1	233
Dunes	442626	PM _{2.5}	10-Jun-25	10:00	11:00	187.4	1.9	336
Dunes	442626	PM _{2.5}	10-Jun-25	11:00	12:00	194.6	2.0	341

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Dunes	442626	PM _{2.5}	10-Jun-25	12:00	13:00	206.9	2.7	333
Dunes	442626	PM _{2.5}	10-Jun-25	13:00	14:00	177.5	3.8	18
Dunes	442626	PM _{2.5}	10-Jun-25	14:00	15:00	102.7	5.6	341
Dunes	442626	PM _{2.5}	10-Jun-25	15:00	16:00	115.7	5.1	340
Dunes	442626	PM _{2.5}	10-Jun-25	16:00	17:00	137.2	7.6	24
Dunes	442626	PM _{2.5}	10-Jun-25	17:00	18:00	143.2	7.6	25
Dunes	442626	PM _{2.5}	10-Jun-25	18:00	19:00	198.9	6.3	36
Dunes	442626	PM _{2.5}	10-Jun-25	19:00	20:00	174.2	4.7	46
Dunes	442626	PM _{2.5}	10-Jun-25	20:00	21:00	142.7	0.5	52
Dunes	442626	PM _{2.5}	10-Jun-25	21:00	22:00	131.6	0.4	294
Dunes	442626	PM _{2.5}	10-Jun-25	22:00	23:00	110.5	0.5	252
Dunes	442626	PM _{2.5}	10-Jun-25	23:00	00:00	93.6	0.4	209
Dunes	442626	PM _{2.5}	11-Jun-25	00:00	01:00	89.1	0.7	331
Dunes	442626	PM _{2.5}	11-Jun-25	01:00	02:00	93.1	0.3	262
Dunes	442626	PM _{2.5}	11-Jun-25	02:00	03:00	94.6	0.4	296
Dunes	442626	PM _{2.5}	11-Jun-25	03:00	04:00	91.4	0.4	248
Dunes	442626	PM _{2.5}	11-Jun-25	04:00	05:00	88.6	0.3	240
Dunes	442626	PM _{2.5}	11-Jun-25	05:00	06:00	87.1	0.1	335
Dunes	442626	PM _{2.5}	11-Jun-25	23:00	00:00	104.8	4.8	78
Dunes	442626	PM _{2.5}	12-Jun-25	00:00	01:00	127.4	4.3	75
Dunes	442626	PM _{2.5}	12-Jun-25	01:00	02:00	113.7	4.8	70
Dunes	442626	PM _{2.5}	12-Jun-25	02:00	03:00	83.2	4.8	79
Henry Pirker	442629	PM _{2.5}	03-Jun-25	08:00	09:00	93.9	3.9	300
Henry Pirker	442629	PM _{2.5}	03-Jun-25	11:00	12:00	125.5	5.9	45
Henry Pirker	442629	PM _{2.5}	03-Jun-25	12:00	13:00	128.3	6.1	47
Henry Pirker	442629	PM _{2.5}	03-Jun-25	13:00	14:00	99.2	5.2	10
Henry Pirker	442629	PM _{2.5}	03-Jun-25	14:00	15:00	87.5	4.4	292
Henry Pirker	442629	PM _{2.5}	03-Jun-25	19:00	20:00	80.9	2.8	206
Henry Pirker	442629	PM _{2.5}	03-Jun-25	20:00	21:00	95.9	5.5	162
Henry Pirker	442629	PM _{2.5}	07-Jun-25	02:00	03:00	82.3	3.1	332
Henry Pirker	442629	PM _{2.5}	07-Jun-25	03:00	04:00	111.3	2.6	300
Henry Pirker	442629	PM _{2.5}	07-Jun-25	04:00	05:00	156.7	2.4	294
Henry Pirker	442629	PM _{2.5}	07-Jun-25	05:00	06:00	204.6	3.0	271
Henry Pirker	442629	PM _{2.5}	07-Jun-25	06:00	07:00	257.0	2.3	227
Henry Pirker	442629	PM _{2.5}	07-Jun-25	07:00	08:00	228.2	3.3	245
Henry Pirker	442629	PM _{2.5}	07-Jun-25	08:00	09:00	100.0	6.9	295
Henry Pirker	442629	PM _{2.5}	08-Jun-25	02:00	03:00	81.4	3.1	153
Henry Pirker	442629	PM _{2.5}	08-Jun-25	03:00	04:00	86.4	3.9	153
Henry Pirker	442629	PM _{2.5}	08-Jun-25	04:00	05:00	93.2	3.3	151
Henry Pirker	442629	PM _{2.5}	08-Jun-25	05:00	06:00	94.3	3.3	157
Henry Pirker	442629	PM _{2.5}	08-Jun-25	06:00	07:00	94.3	3.2	154
Henry Pirker	442629	PM _{2.5}	08-Jun-25	07:00	08:00	83.2	3.3	161
Henry Pirker	442629	PM _{2.5}	08-Jun-25	23:00	00:00	197.1	11.0	285
Henry Pirker	442629	PM _{2.5}	09-Jun-25	00:00	01:00	323.7	8.0	278
Henry Pirker	442629	PM _{2.5}	09-Jun-25	01:00	02:00	266.2	8.2	271
Henry Pirker	442629	PM _{2.5}	09-Jun-25	02:00	03:00	233.5	6.1	272
Henry Pirker	442629	PM _{2.5}	09-Jun-25	03:00	04:00	114.9	7.5	282
Henry Pirker	442629	PM _{2.5}	09-Jun-25	07:00	08:00	107.5	18.2	290
Henry Pirker	442629	PM _{2.5}	09-Jun-25	11:00	12:00	105.2	19.3	295
Henry Pirker	442629	PM _{2.5}	09-Jun-25	12:00	13:00	85.0	17.5	293
Henry Pirker	442629	PM _{2.5}	09-Jun-25	13:00	14:00	137.4	21.4	293
Henry Pirker	442629	PM _{2.5}	09-Jun-25	14:00	15:00	218.1	19.9	293
Henry Pirker	442629	PM _{2.5}	09-Jun-25	15:00	16:00	170.3	19.0	294
Henry Pirker	442629	PM _{2.5}	09-Jun-25	16:00	17:00	127.7	19.1	281

Site	reference	Pollutant	Date	From MST	To MST	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	442629	PM _{2.5}	10-Jun-25	02:00	03:00	102.4	3.6	350
Henry Pirker	442629	PM _{2.5}	10-Jun-25	03:00	04:00	158.8	3.1	332
Henry Pirker	442629	PM _{2.5}	10-Jun-25	04:00	05:00	136.3	2.5	320
Henry Pirker	442629	PM _{2.5}	10-Jun-25	05:00	06:00	135.5	0.8	310
Henry Pirker	442629	PM _{2.5}	10-Jun-25	06:00	07:00	145.0	1.2	300
Henry Pirker	442629	PM _{2.5}	10-Jun-25	07:00	08:00	174.8	5.0	312
Henry Pirker	442629	PM _{2.5}	10-Jun-25	08:00	09:00	255.0	4.0	312
Henry Pirker	442629	PM _{2.5}	10-Jun-25	09:00	10:00	268.5	1.1	348
Henry Pirker	442629	PM _{2.5}	10-Jun-25	10:00	11:00	262.4	1.6	347
Henry Pirker	442629	PM _{2.5}	10-Jun-25	11:00	12:00	292.3	2.5	16
Henry Pirker	442629	PM _{2.5}	10-Jun-25	12:00	13:00	257.4	2.6	22
Henry Pirker	442629	PM _{2.5}	10-Jun-25	13:00	14:00	190.1	3.3	298
Henry Pirker	442629	PM _{2.5}	10-Jun-25	14:00	15:00	200.3	8.3	328
Henry Pirker	442629	PM _{2.5}	10-Jun-25	15:00	16:00	193.7	9.0	348
Henry Pirker	442629	PM _{2.5}	10-Jun-25	16:00	17:00	176.3	7.3	0
Henry Pirker	442629	PM _{2.5}	10-Jun-25	17:00	18:00	221.6	6.8	9
Henry Pirker	442629	PM _{2.5}	10-Jun-25	18:00	19:00	272.7	5.9	51
Henry Pirker	442629	PM _{2.5}	10-Jun-25	19:00	20:00	273.2	4.5	27
Henry Pirker	442629	PM _{2.5}	10-Jun-25	20:00	21:00	261.9	1.6	42
Henry Pirker	442629	PM _{2.5}	10-Jun-25	21:00	22:00	181.2	0.4	130
Henry Pirker	442629	PM _{2.5}	10-Jun-25	22:00	23:00	154.5	0.3	94
Henry Pirker	442629	PM _{2.5}	10-Jun-25	23:00	00:00	161.3	0.5	317
Henry Pirker	442629	PM _{2.5}	11-Jun-25	00:00	01:00	200.1	1.1	330
Henry Pirker	442629	PM _{2.5}	11-Jun-25	01:00	02:00	170.8	1.8	16
Henry Pirker	442629	PM _{2.5}	11-Jun-25	02:00	03:00	147.5	1.0	14
Henry Pirker	442629	PM _{2.5}	11-Jun-25	03:00	04:00	98.3	0.5	346
Henry Pirker	442629	PM _{2.5}	11-Jun-25	23:00	00:00	133.1	11.4	82
Henry Pirker	442629	PM _{2.5}	12-Jun-25	00:00	01:00	158.4	9.8	78
Henry Pirker	442629	PM _{2.5}	12-Jun-25	01:00	02:00	132.0	8.7	71
Henry Pirker	442629	PM _{2.5}	12-Jun-25	02:00	03:00	111.9	9.8	78
Henry Pirker	442629	PM _{2.5}	12-Jun-25	03:00	04:00	89.1	8.3	68
Smoky Heights	442631	PM _{2.5}	03-Jun-25	02:00	03:00	80.2	7.2	91
Smoky Heights	442631	PM _{2.5}	03-Jun-25	11:00	12:00	81.2	3.1	266
Smoky Heights	442631	PM _{2.5}	05-Jun-25	10:00	11:00	158.1	27.1	257
Smoky Heights	442631	PM _{2.5}	05-Jun-25	11:00	12:00	127.8	24.9	252
Smoky Heights	442631	PM _{2.5}	07-Jun-25	03:00	04:00	83.9	6.7	82
Smoky Heights	442631	PM _{2.5}	07-Jun-25	04:00	05:00	82.9	7.3	91
Smoky Heights	442631	PM _{2.5}	07-Jun-25	05:00	06:00	81.9	7.0	121
Smoky Heights	442631	PM _{2.5}	08-Jun-25	20:00	21:00	114.6	5.0	37
Smoky Heights	442631	PM _{2.5}	09-Jun-25	16:00	17:00	94.4	14.7	5
Smoky Heights	442631	PM _{2.5}	09-Jun-25	20:00	21:00	87.1	15.6	309
Smoky Heights	442631	PM _{2.5}	09-Jun-25	21:00	22:00	90.4	9.0	312
Smoky Heights	442631	PM _{2.5}	09-Jun-25	22:00	23:00	97.5	4.7	341
Smoky Heights	442631	PM _{2.5}	09-Jun-25	23:00	00:00	83.4	1.8	330
Smoky Heights	442631	PM _{2.5}	10-Jun-25	00:00	01:00	154.0	2.3	329
Smoky Heights	442631	PM _{2.5}	10-Jun-25	01:00	02:00	184.6	6.7	359
Smoky Heights	442631	PM _{2.5}	10-Jun-25	02:00	03:00	188.9	7.5	4
Smoky Heights	442631	PM _{2.5}	10-Jun-25	03:00	04:00	172.6	7.8	354
Smoky Heights	442631	PM _{2.5}	10-Jun-25	04:00	05:00	177.4	5.8	353
Smoky Heights	442631	PM _{2.5}	10-Jun-25	05:00	06:00	182.0	0.6	80
Smoky Heights	442631	PM _{2.5}	10-Jun-25	06:00	07:00	196.0	2.2	240
Smoky Heights	442631	PM _{2.5}	10-Jun-25	07:00	08:00	183.6	1.0	151
Smoky Heights	442631	PM _{2.5}	10-Jun-25	08:00	09:00	241.3	4.8	4
Smoky Heights	442631	PM _{2.5}	10-Jun-25	09:00	10:00	265.3	5.4	5

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Smoky Heights	442631	PM _{2.5}	10-Jun-25	10:00	11:00	205.0	5.6	8
Smoky Heights	442631	PM _{2.5}	10-Jun-25	11:00	12:00	101.4	10.0	338
Smoky Heights	442631	PM _{2.5}	10-Jun-25	12:00	13:00	124.4	3.8	183
Smoky Heights	442631	PM _{2.5}	10-Jun-25	13:00	14:00	129.5	10.5	203
Smoky Heights	442631	PM _{2.5}	10-Jun-25	14:00	15:00	173.5	10.5	201
Smoky Heights	442631	PM _{2.5}	10-Jun-25	15:00	16:00	187.9	9.5	211
Smoky Heights	442631	PM _{2.5}	10-Jun-25	16:00	17:00	201.9	9.0	224
Smoky Heights	442631	PM _{2.5}	10-Jun-25	17:00	18:00	175.1	10.1	207
Smoky Heights	442631	PM _{2.5}	10-Jun-25	18:00	19:00	86.6	10.9	195
Smoky Heights	442631	PM _{2.5}	10-Jun-25	20:00	21:00	92.6	15.6	190
Smoky Heights	442631	PM _{2.5}	10-Jun-25	21:00	22:00	100.4	9.9	198
Smoky Heights	442631	PM _{2.5}	10-Jun-25	22:00	23:00	103.1	2.3	173
Smoky Heights	442631	PM _{2.5}	10-Jun-25	23:00	00:00	93.8	3.8	355
Smoky Heights	442631	PM _{2.5}	11-Jun-25	22:00	23:00	166.4	17.1	125
Smoky Heights	442631	PM _{2.5}	11-Jun-25	23:00	00:00	214.7	17.0	131
Smoky Heights	442631	PM _{2.5}	12-Jun-25	00:00	01:00	179.1	14.8	139
Smoky Heights	442631	PM _{2.5}	12-Jun-25	01:00	02:00	186.0	11.3	149
Smoky Heights	442631	PM _{2.5}	12-Jun-25	02:00	03:00	132.3	10.8	141
Smoky Heights	442631	PM _{2.5}	12-Jun-25	03:00	04:00	82.8	11.0	132
Fox Creek	442627	PM _{2.5}	09-Jun-25	18:00	19:00	121.0	11.6	357
Fox Creek	442627	PM _{2.5}	09-Jun-25	19:00	20:00	185.6	9.2	355
Fox Creek	442627	PM _{2.5}	09-Jun-25	20:00	21:00	126.0	3.5	322
Fox Creek	442627	PM _{2.5}	09-Jun-25	21:00	22:00	113.5	1.2	293
Fox Creek	442627	PM _{2.5}	09-Jun-25	22:00	23:00	101.3	1.3	231
Fox Creek	442627	PM _{2.5}	09-Jun-25	23:00	00:00	99.9	2.6	181
Fox Creek	442627	PM _{2.5}	10-Jun-25	00:00	01:00	98.2	1.8	208
Fox Creek	442627	PM _{2.5}	10-Jun-25	01:00	02:00	91.3	2.3	179
Fox Creek	442627	PM _{2.5}	10-Jun-25	06:00	07:00	83.1	0.7	150
Fox Creek	442627	PM _{2.5}	10-Jun-25	12:00	13:00	82.2	8.7	29
Fox Creek	442627	PM _{2.5}	10-Jun-25	14:00	15:00	82.4	9.9	19
Fox Creek	442627	PM _{2.5}	10-Jun-25	15:00	16:00	114.5	9.2	11
Fox Creek	442627	PM _{2.5}	10-Jun-25	16:00	17:00	125.1	7.7	10
Fox Creek	442627	PM _{2.5}	10-Jun-25	17:00	18:00	137.5	7.8	24
Fox Creek	442627	PM _{2.5}	10-Jun-25	18:00	19:00	165.0	7.2	37
Fox Creek	442627	PM _{2.5}	10-Jun-25	19:00	20:00	173.2	4.3	32
Fox Creek	442627	PM _{2.5}	10-Jun-25	20:00	21:00	180.3	1.4	340
Fox Creek	442627	PM _{2.5}	10-Jun-25	21:00	22:00	174.2	1.4	230
Fox Creek	442627	PM _{2.5}	10-Jun-25	22:00	23:00	163.2	2.0	187
Fox Creek	442627	PM _{2.5}	10-Jun-25	23:00	00:00	157.8	1.9	191
Fox Creek	442627	PM _{2.5}	11-Jun-25	00:00	01:00	151.1	2.1	181
Fox Creek	442627	PM _{2.5}	11-Jun-25	01:00	02:00	150.3	2.1	187
Fox Creek	442627	PM _{2.5}	11-Jun-25	02:00	03:00	141.5	2.0	203
Fox Creek	442627	PM _{2.5}	11-Jun-25	03:00	04:00	140.5	1.4	180
Fox Creek	442627	PM _{2.5}	11-Jun-25	04:00	05:00	136.8	1.8	220
Fox Creek	442627	PM _{2.5}	11-Jun-25	05:00	06:00	132.7	1.9	196
Fox Creek	442627	PM _{2.5}	11-Jun-25	06:00	07:00	132.6	2.3	203
Fox Creek	442627	PM _{2.5}	11-Jun-25	07:00	08:00	132.2	1.0	198
Fox Creek	442627	PM _{2.5}	11-Jun-25	08:00	09:00	89.8	6.0	149
Happy Valley	442628	PM _{2.5}	03-Jun-25	06:00	07:00	98.8	3.1	16
Happy Valley	442628	PM _{2.5}	03-Jun-25	07:00	08:00	105.8	10.2	24
Happy Valley	442628	PM _{2.5}	03-Jun-25	08:00	09:00	91.7	6.5	15
Happy Valley	442628	PM _{2.5}	03-Jun-25	09:00	10:00	104.9	4.5	323
Happy Valley	442628	PM _{2.5}	03-Jun-25	10:00	11:00	84.2	5.7	319
Happy Valley	442628	PM _{2.5}	03-Jun-25	12:00	13:00	101.5	8.6	18

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Happy Valley	442628	PM _{2.5}	03-Jun-25	13:00	14:00	108.9	4.8	355
Happy Valley	442628	PM _{2.5}	03-Jun-25	14:00	15:00	101.9	5.3	301
Happy Valley	442628	PM _{2.5}	03-Jun-25	15:00	16:00	103.5	9.1	301
Happy Valley	442628	PM _{2.5}	03-Jun-25	16:00	17:00	95.7	8.4	284
Happy Valley	442628	PM _{2.5}	03-Jun-25	17:00	18:00	100.3	2.2	108
Happy Valley	442628	PM _{2.5}	03-Jun-25	18:00	19:00	86.5	9.7	166
Happy Valley	442628	PM _{2.5}	03-Jun-25	21:00	22:00	83.6	3.3	180
Happy Valley	442628	PM _{2.5}	03-Jun-25	22:00	23:00	106.2	9.8	194
Happy Valley	442628	PM _{2.5}	03-Jun-25	23:00	00:00	101.7	15.9	197
Happy Valley	442628	PM _{2.5}	04-Jun-25	00:00	01:00	84.3	20.9	194
Happy Valley	442628	PM _{2.5}	06-Jun-25	22:00	23:00	149.8	9.7	268
Happy Valley	442628	PM _{2.5}	06-Jun-25	23:00	00:00	178.6	11.8	262
Happy Valley	442628	PM _{2.5}	07-Jun-25	00:00	01:00	203.6	11.7	265
Happy Valley	442628	PM _{2.5}	07-Jun-25	01:00	02:00	135.7	10.3	269
Happy Valley	442628	PM _{2.5}	07-Jun-25	02:00	03:00	126.4	9.2	264
Happy Valley	442628	PM _{2.5}	07-Jun-25	03:00	04:00	129.5	11.1	263
Happy Valley	442628	PM _{2.5}	07-Jun-25	04:00	05:00	130.7	10.7	264
Happy Valley	442628	PM _{2.5}	07-Jun-25	05:00	06:00	97.3	10.9	267
Happy Valley	442628	PM _{2.5}	07-Jun-25	06:00	07:00	92.1	9.9	265
Happy Valley	442628	PM _{2.5}	08-Jun-25	02:00	03:00	85.1	30.5	201
Happy Valley	442628	PM _{2.5}	08-Jun-25	03:00	04:00	111.5	16.9	213
Happy Valley	442628	PM _{2.5}	08-Jun-25	04:00	05:00	106.2	10.4	251
Happy Valley	442628	PM _{2.5}	08-Jun-25	11:00	12:00	93.3	12.9	231
Happy Valley	442628	PM _{2.5}	08-Jun-25	12:00	13:00	94.1	14.1	220
Happy Valley	442628	PM _{2.5}	09-Jun-25	19:00	20:00	130.0	12.3	20
Happy Valley	442628	PM _{2.5}	09-Jun-25	20:00	21:00	142.6	5.1	27
Happy Valley	442628	PM _{2.5}	09-Jun-25	21:00	22:00	230.9	1.2	283
Happy Valley	442628	PM _{2.5}	09-Jun-25	22:00	23:00	175.5	3.1	249
Happy Valley	442628	PM _{2.5}	09-Jun-25	23:00	00:00	182.0	4.2	259
Happy Valley	442628	PM _{2.5}	10-Jun-25	00:00	01:00	194.2	6.0	276
Happy Valley	442628	PM _{2.5}	10-Jun-25	01:00	02:00	230.2	4.6	260
Happy Valley	442628	PM _{2.5}	10-Jun-25	02:00	03:00	187.3	4.2	253
Happy Valley	442628	PM _{2.5}	10-Jun-25	03:00	04:00	229.1	5.4	257
Happy Valley	442628	PM _{2.5}	10-Jun-25	04:00	05:00	257.7	8.5	268
Happy Valley	442628	PM _{2.5}	10-Jun-25	05:00	06:00	318.9	9.3	260
Happy Valley	442628	PM _{2.5}	10-Jun-25	06:00	07:00	329.0	7.6	261
Happy Valley	442628	PM _{2.5}	10-Jun-25	07:00	08:00	425.6	8.1	263
Happy Valley	442628	PM _{2.5}	10-Jun-25	08:00	09:00	596.9	8.0	272
Happy Valley	442628	PM _{2.5}	10-Jun-25	09:00	10:00	421.9	8.7	268
Happy Valley	442628	PM _{2.5}	10-Jun-25	10:00	11:00	379.7	8.8	278
Happy Valley	442628	PM _{2.5}	10-Jun-25	11:00	12:00	303.8	8.7	326
Happy Valley	442628	PM _{2.5}	10-Jun-25	12:00	13:00	439.4	8.1	349
Happy Valley	442628	PM _{2.5}	10-Jun-25	13:00	14:00	480.4	9.3	332
Happy Valley	442628	PM _{2.5}	10-Jun-25	14:00	15:00	294.8	11.1	10
Happy Valley	442628	PM _{2.5}	10-Jun-25	15:00	16:00	278.6	9.9	7
Happy Valley	442628	PM _{2.5}	10-Jun-25	16:00	17:00	285.7	5.5	345
Happy Valley	442628	PM _{2.5}	10-Jun-25	17:00	18:00	198.4	2.2	315
Happy Valley	442628	PM _{2.5}	10-Jun-25	18:00	19:00	153.3	2.6	300
Happy Valley	442628	PM _{2.5}	10-Jun-25	19:00	20:00	119.2	6.2	17
Happy Valley	442628	PM _{2.5}	10-Jun-25	20:00	21:00	88.7	5.2	41
Happy Valley	442628	PM _{2.5}	12-Jun-25	01:00	02:00	115.1	11.2	72
Happy Valley	442628	PM _{2.5}	12-Jun-25	02:00	03:00	234.1	8.9	69
Happy Valley	442628	PM _{2.5}	12-Jun-25	03:00	04:00	209.1	8.9	54
Happy Valley	442628	PM _{2.5}	12-Jun-25	04:00	05:00	167.8	8.9	62

Site	reference	Pollutant	Date	From MST	To MST	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Happy Valley	442628	PM _{2.5}	12-Jun-25	05:00	06:00	127.6	11.1	77
Happy Valley	442628	PM _{2.5}	12-Jun-25	06:00	07:00	92.7	14.6	76
Milner	442630	PM _{2.5}	07-Jun-25	21:00	22:00	83.0	4.2	16
Milner	442630	PM _{2.5}	07-Jun-25	22:00	23:00	80.5	3.8	29
Milner	442630	PM _{2.5}	10-Jun-25	17:00	18:00	93.6	9.1	63
Milner	442630	PM _{2.5}	10-Jun-25	18:00	19:00	106.9	7.6	54
Milner	442630	PM _{2.5}	10-Jun-25	19:00	20:00	113.3	6.7	51
Milner	442630	PM _{2.5}	10-Jun-25	20:00	21:00	135.8	3.8	40
Milner	442630	PM _{2.5}	10-Jun-25	21:00	22:00	163.2	3.6	23
Milner	442630	PM _{2.5}	10-Jun-25	22:00	23:00	157.7	2.8	18
Milner	442630	PM _{2.5}	10-Jun-25	23:00	00:00	150.5	3.9	39
Milner	442630	PM _{2.5}	11-Jun-25	00:00	01:00	144.7	0.9	25
Milner	442630	PM _{2.5}	11-Jun-25	01:00	02:00	150.4	1.7	30
Milner	442630	PM _{2.5}	11-Jun-25	02:00	03:00	146.9	1.3	52
Milner	442630	PM _{2.5}	11-Jun-25	03:00	04:00	147.8	3.2	38
Milner	442630	PM _{2.5}	11-Jun-25	04:00	05:00	149.3	0.7	338
Milner	442630	PM _{2.5}	11-Jun-25	05:00	06:00	147.7	0.4	295
Milner	442630	PM _{2.5}	11-Jun-25	06:00	07:00	138.2	1.1	63
Milner	442630	PM _{2.5}	11-Jun-25	07:00	08:00	139.9	1.1	134
Milner	442630	PM _{2.5}	11-Jun-25	08:00	09:00	135.4	1.6	150
Milner	442630	PM _{2.5}	11-Jun-25	09:00	10:00	146.7	2.2	128
Milner	442630	PM _{2.5}	11-Jun-25	10:00	11:00	138.3	4.2	86
Milner	442630	PM _{2.5}	11-Jun-25	11:00	12:00	117.8	7.7	60
Milner	442630	PM _{2.5}	11-Jun-25	12:00	13:00	109.9	7.8	59
Milner	442630	PM _{2.5}	11-Jun-25	13:00	14:00	95.5	10.1	61
Milner	442630	PM _{2.5}	11-Jun-25	14:00	15:00	82.2	10.6	59

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	442625	PM _{2.5}	02-Jun-25	29.6	13.7	260
Beaverlodge	442625	PM _{2.5}	03-Jun-25	64.6	6.9	111
Beaverlodge	442625	PM _{2.5}	06-Jun-25	31.6	23.2	269
Beaverlodge	442625	PM _{2.5}	07-Jun-25	181.3	9.3	321
Beaverlodge	442625	PM _{2.5}	08-Jun-25	43.4	21.3	254
Beaverlodge	442625	PM _{2.5}	09-Jun-25	112.1	16.1	290
Beaverlodge	442625	PM _{2.5}	10-Jun-25	196.9	7.7	16
Beaverlodge	442625	PM _{2.5}	11-Jun-25	64.0	17.2	77
Beaverlodge	442625	PM _{2.5}	12-Jun-25	40.8	20.8	78
Beaverlodge	442625	PM _{2.5}	21-Jun-25	32.9	9.5	28
Dunes	442626	PM _{2.5}	03-Jun-25	32.8	3.7	274
Dunes	442626	PM _{2.5}	07-Jun-25	73.7	3.6	311
Dunes	442626	PM _{2.5}	08-Jun-25	30.2	4.7	247
Dunes	442626	PM _{2.5}	09-Jun-25	47.2	5.7	306
Dunes	442626	PM _{2.5}	10-Jun-25	122.2	2.5	359
Dunes	442626	PM _{2.5}	11-Jun-25	50.2	5.2	82
Dunes	442626	PM _{2.5}	12-Jun-25	34.8	5.0	74
Henry Pirker	442629	PM _{2.5}	03-Jun-25	58.3	5.2	272
Henry Pirker	442629	PM _{2.5}	07-Jun-25	79.8	7.6	306
Henry Pirker	442629	PM _{2.5}	08-Jun-25	43.4	10.7	248
Henry Pirker	442629	PM _{2.5}	09-Jun-25	94.6	12.5	294
Henry Pirker	442629	PM _{2.5}	10-Jun-25	192.7	3.3	349
Henry Pirker	442629	PM _{2.5}	11-Jun-25	63.2	8.2	83

Site	reference	Pollutant	Date	Average µg/m ³	WS km/hr	WD degrees
Henry Pirker	442629	PM _{2.5}	12-Jun-25	37.3	9.1	76
Henry Pirker	442629	PM _{2.5}	22-Jun-25	31.6	3.9	275
Smoky Heights	442631	PM _{2.5}	03-Jun-25	49.4	5.3	267
Smoky Heights	442631	PM _{2.5}	07-Jun-25	48.0	11.1	8
Smoky Heights	442631	PM _{2.5}	08-Jun-25	32.9	14.6	244
Smoky Heights	442631	PM _{2.5}	09-Jun-25	30.7	10.7	336
Smoky Heights	442631	PM _{2.5}	10-Jun-25	158.4	7.1	223
Smoky Heights	442631	PM _{2.5}	11-Jun-25	39.9	12.2	105
Smoky Heights	442631	PM _{2.5}	12-Jun-25	34.1	14.9	130
Fox Creek	442627	PM _{2.5}	07-Jun-25	44.1	6.8	324
Fox Creek	442627	PM _{2.5}	09-Jun-25	36.3	8.3	315
Fox Creek	442627	PM _{2.5}	10-Jun-25	104.5	4.6	26
Fox Creek	442627	PM _{2.5}	11-Jun-25	93.6	7.3	135
Happy Valley	442628	PM _{2.5}	03-Jun-25	73.7	6.7	282
Happy Valley	442628	PM _{2.5}	07-Jun-25	72.7	12.5	275
Happy Valley	442628	PM _{2.5}	08-Jun-25	37.0	17.8	244
Happy Valley	442628	PM _{2.5}	09-Jun-25	53.6	15.3	284
Happy Valley	442628	PM _{2.5}	10-Jun-25	266.8	6.6	298
Happy Valley	442628	PM _{2.5}	12-Jun-25	55.9	19.4	88
Happy Valley	442628	PM _{2.5}	13-Jun-25	29.1	12.9	56
Happy Valley	442628	PM _{2.5}	22-Jun-25	29.8	8.4	346
Milner	442630	PM _{2.5}	07-Jun-25	31.0	2.6	349
Milner	442630	PM _{2.5}	10-Jun-25	49.0	4.2	61
Milner	442630	PM _{2.5}	11-Jun-25	107.2	5.9	58
Milner	442630	PM _{2.5}	12-Jun-25	39.7	4.7	59

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

Site	reference	Pollutant	Date	Average ppb
Kakwa 3	443162	SO ₂ Passive	June 2025	36.0
Kakwa 4	443163	SO ₂ Passive	June 2025	19.9

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
 - o Passive sample analyses were performed by Bureau Veritas Laboratories
 - o Field notes indicated:

- Guy site had All samples lost - looks like farmer hit them when spraying.
- Deer Mountain, samples were lost in wildfires
- Girouxville 3 site passive was damaged from birds
- Jean Cote site nitrogen passive was damaged

There were 19 duplicates sampled in the month of June:

- Eight SO₂ duplicates located at Hythe, Poplar, Gift Lake, Little Smoky, Duvernay 1, Kakwa 2, Milner Pipeline, Jayar5 Camp
 - RPD ranging from 0% to 114% (one fail, at Little Smoky, with 0.3ppb and 0.1ppb readings)
 - Kakwa 3 and Kakwa 4 were both above the AAAQO of 11ppb for the month
- One O₃ duplicate at Kinuso
 - RPD of 23% (no fail)
- Seven NO₂ duplicates at Steeprock Creek, Sylvester, McLennan, Valleyview, Kakwa 4, Milner Powerline, Jayar2 14-8
 - RPD ranging from 0% to 19% (no fails)
- Three H₂S duplicates at Duvernay 1, Kakwa 1, Jayar1 Plant
 - RPD ranging from 2% to 18% (no fails)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 30.0 to 129.9 mg/100cm²/30day
- RPD was 3 to 19% (no fails)

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

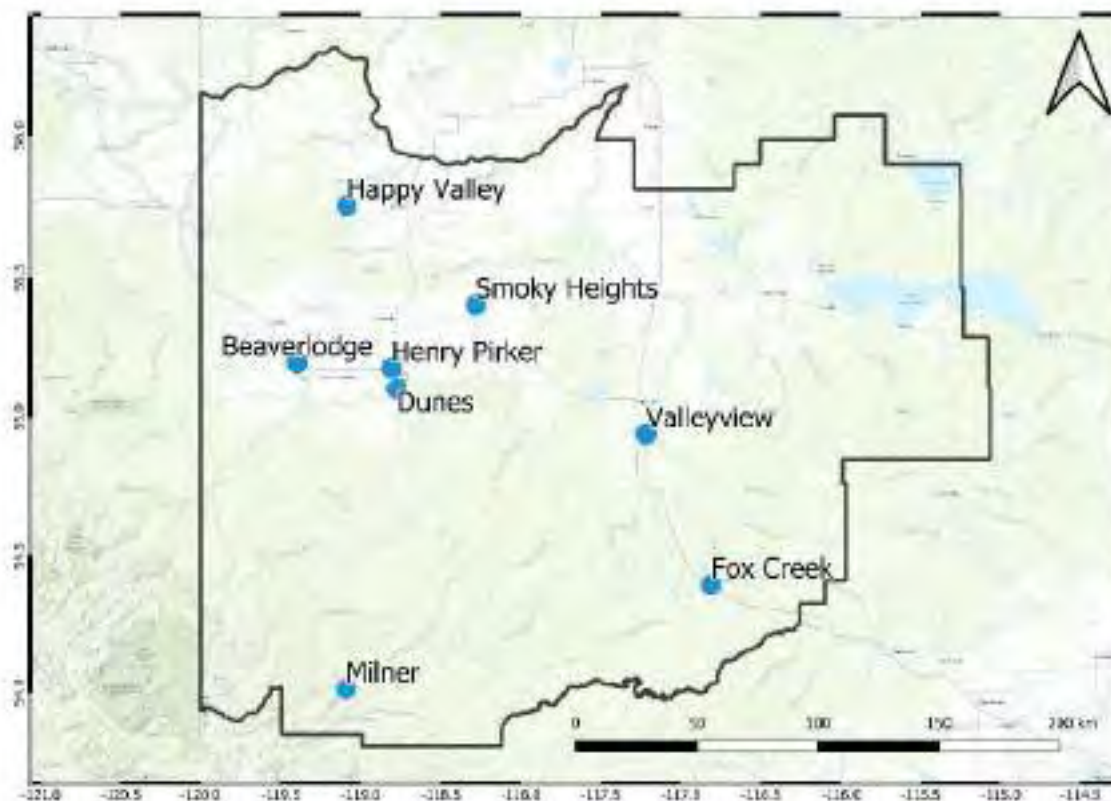


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

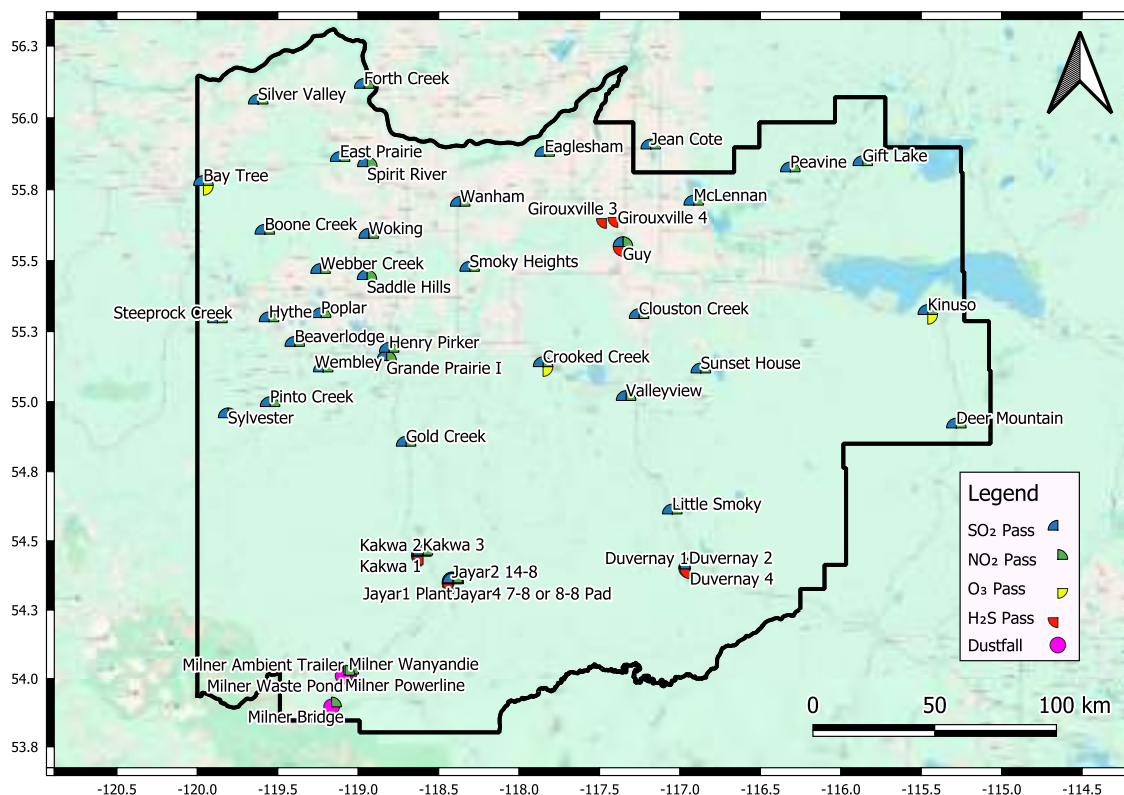
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 June 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 - June 2025 Beaverlodge Station Report

Parameter	June		Valid	Operational	Max	1-hour		24-hour		Max Day	Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time	Max	Objective		1hr	8hr	24hr	30d	
NO (ppb)	0.3	0.0	92.9%	97.8%	9.8	-	Jun-16 07:00	1.4	-	Jun-16	-	-	-	-	Jun 02, 2025
NO ₂ (ppb)	2.6	0.3	92.9%	97.8%	12.6	159	Jun-10 08:00	5.5	-	Jun-10	0	-	-	-	Jun 02, 2025
NO _x (ppb)	3.0	0.3	92.9%	97.8%	15.8	-	Jun-16 07:00	5.8	-	Jun-10	-	-	-	-	Jun 02, 2025
O ₃ (ppb)	29.7	4.2	93.2%	97.8%	58.0	76	Jun-09 14:00	44.0	-	Jun-09	0	-	-	-	Jun 02, 2025
PM _{2.5} (µg/m³)	32.2	0.3	97.2%	97.8%	553.1	80	Jun-07 03:00	196.9	29	Jun-10	82	-	10	-	Jun 03, 2025
SO ₂ (ppb)	0.3	0.0	93.2%	97.8%	16.8	172	Jun-24 00:00	1.5	48	Jun-23	0	-	0	0	Jun 03, 2025
Average					Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction278W									
Temp (°C)	15.0	4.9	93.2%	93.2%	28.2										
RH (%)	53.9	14.5	97.8%	97.8%	100.1										
WS (km/hr)	13.3	0.3	97.8%	97.8%	46.4										
WD (deg)	278	0.7	97.8%	97.8%	359.6										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42iQ	June 16-17, data communication lost, 16hrs removed
O ₃	Thermo	49iQ	June 16-17, data communication lost, 16hrs removed
PM _{2.5}	API	T640	June 16-17, data communication lost (16hrs); June 2-21, 82x1hr readings above AAAQG and 10x24hr readings above AAAQG
SO ₂	Thermo	43i-TLE	June 16-17, data communication lost, 16hrs removed
Met Equip	MetOne	50.5	June 16-17, data communication lost (16hrs); Temperature reacting to voltage during spans, 1hr removed each day and June 3 additional 4hrs invalid (33hrs total removed for temperature)

1.2 Dunes Air Monitoring Station

PAZA - June 2025 Dunes Station Report

Parameter	June		Valid	Operational	Max	30min / 1-hour		24-hour		Max Day	Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time	Max	Objective		1hr	8hr	24hr	30d	
PM _{2.5} (µg/m³)	18.0	0.0	99.7%	100.0%	215.3	80	Jun-07 07:00	122.2	29	Jun-10	40	-	7	-	Jun-12-2025
SO ₂ (ppb)	0.2	0.0	95.3%	100.0%	2.4	172	Jun-22 10:00	0.6	48	Jun-07	0	-	0	0	Jun-12-2025
TRS (ppb)	0.5	0.1	95.3%	100.0%	1.3	5	Jun-16 09:30	0.7	3	Jun-10	0	-	0	-	Jun-12-2025
Average					Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction280W									
Temp (°C)	14.9	1.9	100.0%	100.0%	29.0										
RH (%)	54.5	14.8	100.0%	100.0%	99.9										
WS (km/hr)	4.4	0.1	100.0%	100.0%	14.7										
WD (deg)	280	0.3	100.0%	100.0%	359.1										

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	SHARP 5030	No Operational issues; June 3-12, 40x1hr readings above AAAQG and 7x24hr readings above AAAQG
SO ₂	Thermo	43i	No Operational issues noted during the month
TRS	Thermo	43i	No Operational issues noted during the month
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted during the month

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - June 2025 Henry Pirker Station Report

Parameter	June				1-hour			8-hour / 24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.9	0.0	95.1%	100.0%	17.5	-	Jun-16 06:00	4.1	-	Jun-15	-	-	-	-	Jun 04, 2025
NO ₂ (ppb)	4.7	0.8	95.1%	100.0%	21.3	159	Jun-05 05:00	10.2	-	Jun-10	0	-	-	-	Jun 04, 2025
NO _x (ppb)	5.6	1.0	95.1%	100.0%	30.7	-	Jun-10 07:00	11.8	-	Jun-10	-	-	-	-	Jun 04, 2025
O ₃ (ppb)	28.6	0.3	95.4%	99.9%	59.8	76	Jun-09 15:00	42.7	-	Jun-09	0	-	-	-	Jun 04, 2025
PM _{2.5} (µg/m ³)	26.1	0.3	99.7%	100.0%	323.7	80	Jun-09 01:00	192.7	29	Jun-10	63	-	8	-	Jun 06, 2025
SO ₂ (ppb)	0.1	0.0	95.4%	100.0%	6.3	172	Jun-09 01:00	0.4	48	Jun-09	0	-	0	0	Jun 06, 2025
H ₂ S (ppb)	0.1	0.0	90.7%	95.3%	1.1	10	Jun-18 05:00	0.3	3	Jun-10	0	-	0	-	Jun 06, 2025
CH ₄ (ppm)	2.3	2.1	95.3%	100.0%	3.5	-	Jun-08 01:00	2.4	-	Jun-08	-	-	-	-	Jun 05, 2025
THC (ppm)	2.3	2.1	95.3%	100.0%	5.6	-	Jun-06 10:00	2.6	-	Jun-06	-	-	-	-	Jun 05, 2025
NMHC (ppm)	0.0	0.0	95.3%	100.0%	2.8	-	Jun-06 10:00	0.3	-	Jun-06	-	-	-	-	Jun 05, 2025
CO (ppm)	0.2	0.1	95.3%	100.0%	1.4	13	Jun-09 02:00	0.7	5	Jun-10	0	0	-	-	Jun 05, 2025
Average Minimum Valid Operational Maximum															
Temp (°C)	15.8	2.2	100.0%	100.0%	30.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									Dec 12, 2024
RH (%)	51.8	12.0	100.0%	100.0%	89.5										Dec 12, 2024
SR (W/m ²)	224.1	0.0	100.0%	100.0%	848.0										Dec 12, 2024
WS (km/hr)	8.1	0.2	100.0%	100.0%	26.4										Dec 12, 2024
WD (deg)	271	0.3	100.0%	100.0%	359.7	Average Wind Direction 271 W									Dec 12, 2024

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No operational issues noted during the month
O ₃	TECO	49i	June 9, zero of the AIC was not valid (1hr), following zero triggers were valid
PM _{2.5}	API	T640	June 3 to 22, 63x1hr readings above AAAQG and 8x24hr readings above AAAQO
SO ₂	Thermo	43i-TLE	No operational issues noted during the month
H ₂ S	TEI	450i	June 27 no AIC, analyzer failed due to internal pump; Data removed to last good span (June 26) due to noted data shift, resulting in 29hrs removed and maintenance / install calibration following pump rebuild (5hrs maintenance)
THC/CH ₄ /NMHC	TEI	55i	No operational issues noted during the month
CO	Thermo	48i-TLE	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

1.4 Smoky Heights Air Monitoring Station

PAZA - June 2025 Smoky Heights Station Report

Parameter	June				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/m ³)	21.1	0.0	98.6%	98.9%	265.3	80	Jun-10 10:00	158.4	29	Jun-10	42	-	7	-	Jun 16, 2025
SO ₂ (ppb)	0.3	0.0	94.0%	98.6%	19.6	172	Jun-05 01:00	1.3	48	Jun-05	0	-	0	0	Jun 16, 2025
TRS (ppb)	0.1	0.0	93.5%	98.3%	0.9	5	Jun-26 03:00	0.2	3	Jun-26	0	-	0	-	Jun 16, 2025
Average Minimum Valid Operational Maximum															
Temp (°C)	14.7	1.5	98.9%	98.9%	28.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									Oct 10, 2024
WS (km/hr)	9.7	0.6	98.9%	98.9%	38.1										Oct 10, 2024
WD (deg)	227	0.2	98.9%	98.9%	359.7	Average Wind Direction 227 WNW									Oct 10, 2024

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	June 5-6, data failure, corrected (8hrs); 42x1hr readings above AAAQG and 7x24hr reading above AAAQO
SO ₂	TECO	43i	June 5-6, data failure, corrected and AIC ran ok (8hrs); June 23, manual span check performed, 2hrs
TRS	TEI	43i APSAA	June 5-6, data failure, corrected and AIC ran ok (8hrs); June 15-16 TRS span out >10% due to perm tube, replaced during calibration June 16; June 18-19, span out >10% due to new span, manual AIC performed on site and check was <5%, adjusted span target (2hrs); June 23, manual span check performed to confirm span target with new target set (2hrs); remainder of month ok
Met Equip	MetOne	50.5	June 5-6, data failure, 8hrs

1.5 Valleyview Air Monitoring Station

PAZA - June 2025 Valleyview Station Report

MART - June 2025 Valley View Station Report															
Parameter	June			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	95.4%	100.0%	1.4	172	Jun-14 04:00	0.2	48	Jun-09	0	-	0	0	Jun 11, 2025
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.5	10	Jun-30 01:00	0.2	3	Jun-30	0	-	0	-	Jun 11, 2025
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction285NW									
Temp (°C)	14.9	1.2	100.0%	100.0%	31.3										
RH (%)	62.3	20.7	100.0%	100.0%	100.3										
WS (km/hr)	4.3	0.0	100.0%	100.0%	14.2										
WD (deg)	285	0.0	100.0%	100.0%	360.0										

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	RMV86004	No Operational issues noted during the month

1.6 Fox Creek Air Monitoring Station

PAZA - June 2025 Fox Creek Station Report

June				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)	2.3	0.0	95.1%	100.0%	25.3	-	Jun-03 06:00	4.6	-	Jun-18	-	-	-	-	Jun 18, 2025
NO ₂ (ppb)	4.2	0.3	95.1%	100.0%	22.7	159	Jun-09 06:00	7.3	-	Jun-08	0	-	-	-	Jun 18, 2025
NO _x (ppb)	6.7	0.3	95.1%	100.0%	42.9	-	Jun-03 06:00	10.9	-	Jun-24	-	-	-	-	Jun 18, 2025
O ₃ (ppb)	25.7	0.3	95.3%	100.0%	56.1	76	Jun-09 19:00	40.7	-	Jun-09	0	-	-	-	Jun 18, 2025
PM _{2.5} (µg/m³)	17.4	0.8	99.7%	100.0%	185.6	80	Jun-09 20:00	104.5	29	Jun-10	29	-	4	-	Jun 18, 2025
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	55.7	172	Jun-08 07:00	6.2	48	Jun-08	0	-	0	0	Jun 18, 2025
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	1.1	10	Jun-13 07:00	0.4	3	Jun-26	0	-	0	-	Jun 19, 2025
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	14.1	1.8	100.0%	100.0%	29.6										
WS (km/hr)	6.0	0.4	100.0%	100.0%	19.7										
WD (deg)	287	0.0	100.0%	100.0%	359.8										
						Average Wind Direction		287		WNW					

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; June 7 to 11, 29x1hr readings above AAAQG and 4x24hr readings above AAAQO
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 - June 2025 Happy Valley Station Report

Parameter	June			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)	0.9	0.0	94.9%	99.7%	23.5	-	Jun-03 01:00	3.9	-	Jun-04	-	-	-	-	Jun 09, 2025
NO ₂ (ppb)	3.9	0.2	94.9%	99.7%	25.6	159	Jun-03 01:00	10.5	-	Jun-10	0	-	-	-	Jun 09, 2025
NO _x (ppb)	4.9	0.3	94.9%	99.7%	49.3	-	Jun-03 01:00	12.2	-	Jun-10	-	-	-	-	Jun 09, 2025
O ₃ (ppb)	27.3	0.4	95.3%	100.0%	50.6	76	Jun-08 23:00	36.5	-	Jun-09	0	-	-	-	Jun 09, 2025
PM _{2.5} (µg/m ³)	28.7	0.6	99.9%	100.0%	596.9	80	Jun-10 09:00	266.8	29	Jun-10	62	-	8	-	Jun 09, 2025
SO ₂ (ppb)	0.3	0.0	95.3%	100.0%	6.2	172	Jun-04 01:00	0.7	48	Jun-24	0	-	0	0	Jun 09, 2025
TRS (ppb)	0.5	0.3	95.3%	100.0%	1.7	5	Jun-10 08:00	0.8	-	Jun-10	0	-	-	-	Jun 10, 2025
CH ₄ (ppm)	2.0	1.8	89.3%	93.9%	2.5	-	Jun-18 01:00	2.1	-	Jun-23	-	-	-	-	Jun 10, 2025
THC (ppm)	2.0	1.8	89.3%	93.9%	2.6	-	Jun-18 01:00	2.1	-	Jun-23	-	-	-	-	Jun 10, 2025
NMHC (ppm)	0.0	0.0	89.3%	93.9%	0.1	-	Jun-09 22:00	0.0	-	Jun-09	-	-	-	-	Jun 10, 2025
Average	14.1	2.4	100.0%	100.0%	28.1	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 268 W									
Temp (°C)	14.1	2.4	100.0%	100.0%	28.1										
WS (km/hr)	12.1	0.2	100.0%	100.0%	31.1										
WD (deg)	268	0.6	100.0%	100.0%	355.2										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	June 3, two hours of readings were deemed invalid due to reading difference greater than 1.5ppb
O ₃	TEI	49I	No operational issues noted in the month
PM _{2.5}	API	T640	No operational issues; June 3 to 22, 62x1hr readings above AAAQG and 8x24hr readings above AAAQO
SO ₂	TEI	43I	No operational issues noted in the month
TRS	TEI	43I	No operational issues noted in the month
THC/CH ₄ /NMHC	TEI	55i	June 9, readings<1.8ppm (2hr); June 11, readings <1.8ppm (1hr); June 13, readings <1.8ppm (2hrs), due to baseline shift, calibration ran (6hrs maintenance), then left overnight for column conditioning (17hrs); June 14 follow-up calibration from conditioning (2hrs maintenance); June 19, baseline drifting, onsite calibration again, replaced zero air lines, hydrogen source gas and zero air charcoal and purafill scrubber (7hrs maintenance); June 21, readings <1.8ppm (2hrs); June 22, baseline drifting, analyzer removal calibration to replace actuator, startup calibration, no issues (5hrs maintenance)
Met Equip	MetOne	50.5	No operational issues noted in the month

1.8 Milner Air Monitoring Station

PAZA - June 2025 Milner Station Report

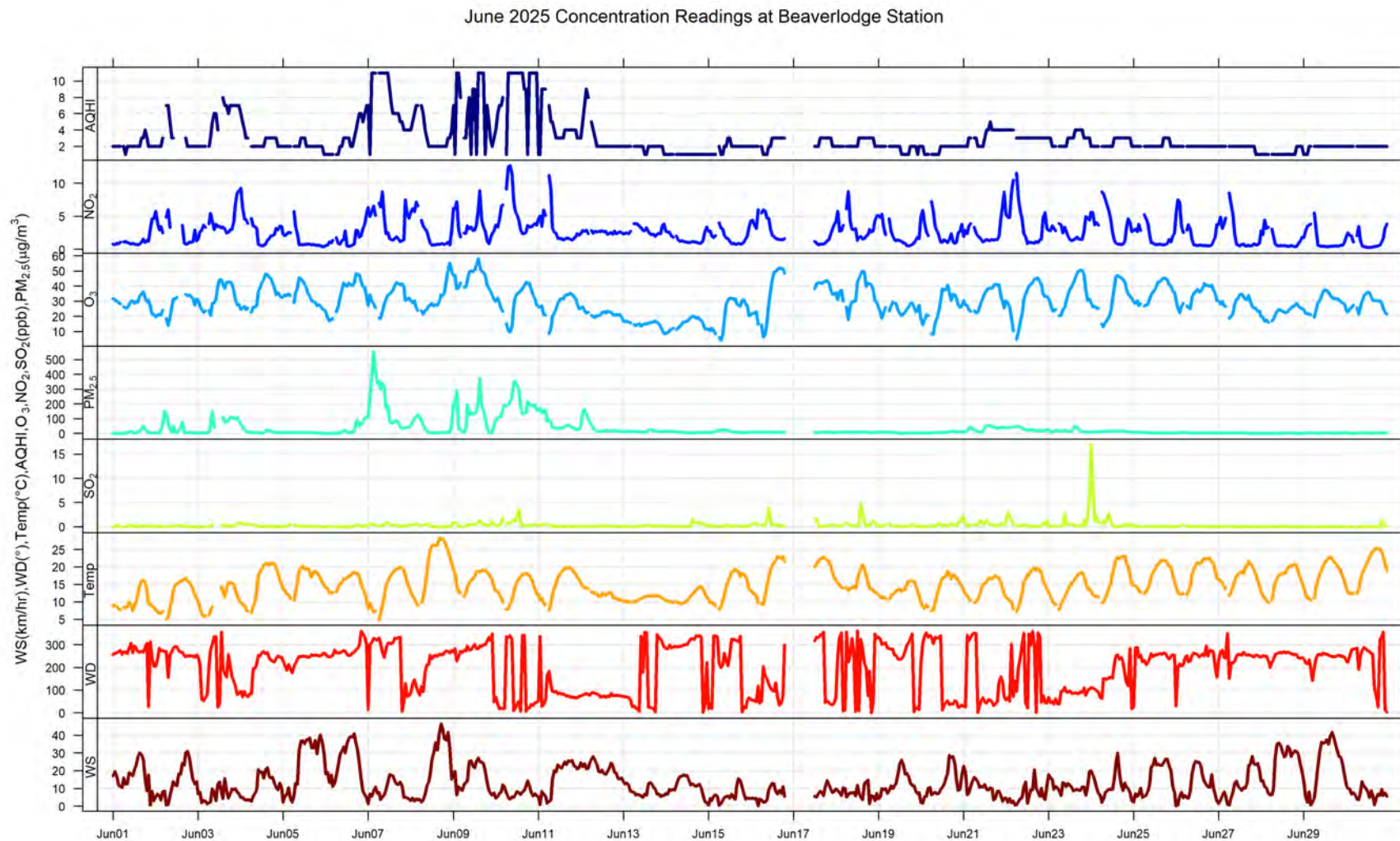
Parameter	June			Operational	1-hour			24-hour		Exceedance					Calibration Date
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.5	0.0	94.6%	100.0%	16.4	-	Jun-11 09:00	1.7	-	Jun-15	-	-	-	-	Jun 25, 2025
NO ₂ (ppb)	1.6	0.0	94.6%	100.0%	16.5	159	Jun-11 09:00	4.6	-	Jun-07	0	-	-	-	Jun 25, 2025
NO _x (ppb)	2.1	0.0	94.6%	100.0%	33.2	-	Jun-11 09:00	6.4	-	Jun-07	-	-	-	-	Jun 25, 2025
PM _{2.5} (µg/m ³)	12.8	0.3	99.6%	100.0%	163.2	80	Jun-10 22:00	107.2	29	Jun-11	24	-	4	-	Jun 25, 2025
Average	6.5	0.4	100.0%	100.0%	26.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 242 WSW									
WS (km/hr)	6.5	0.4	100.0%	100.0%	26.0										
WD (deg)	242	2.0	100.0%	100.0%	359.9										

Update Summary:

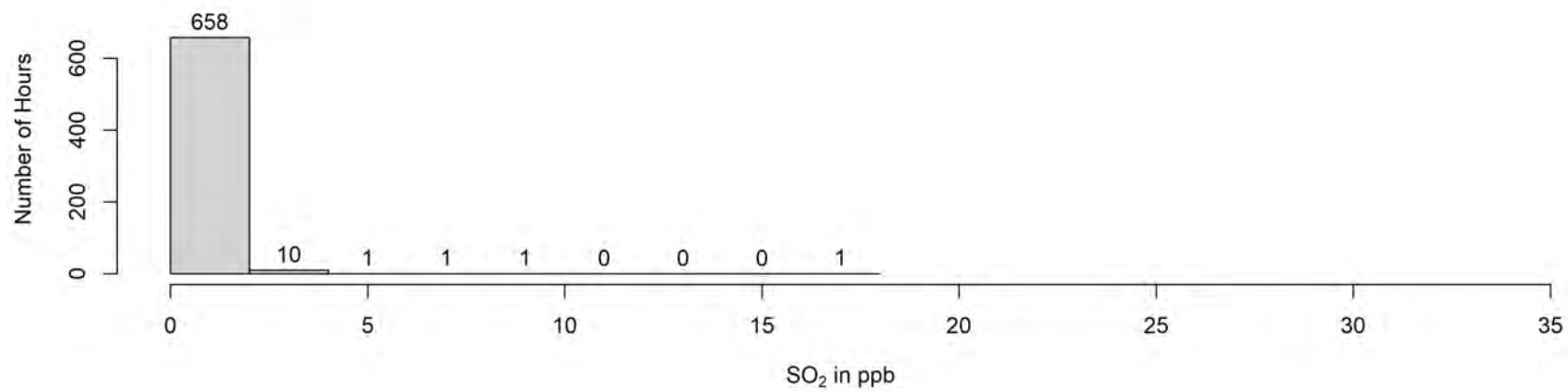
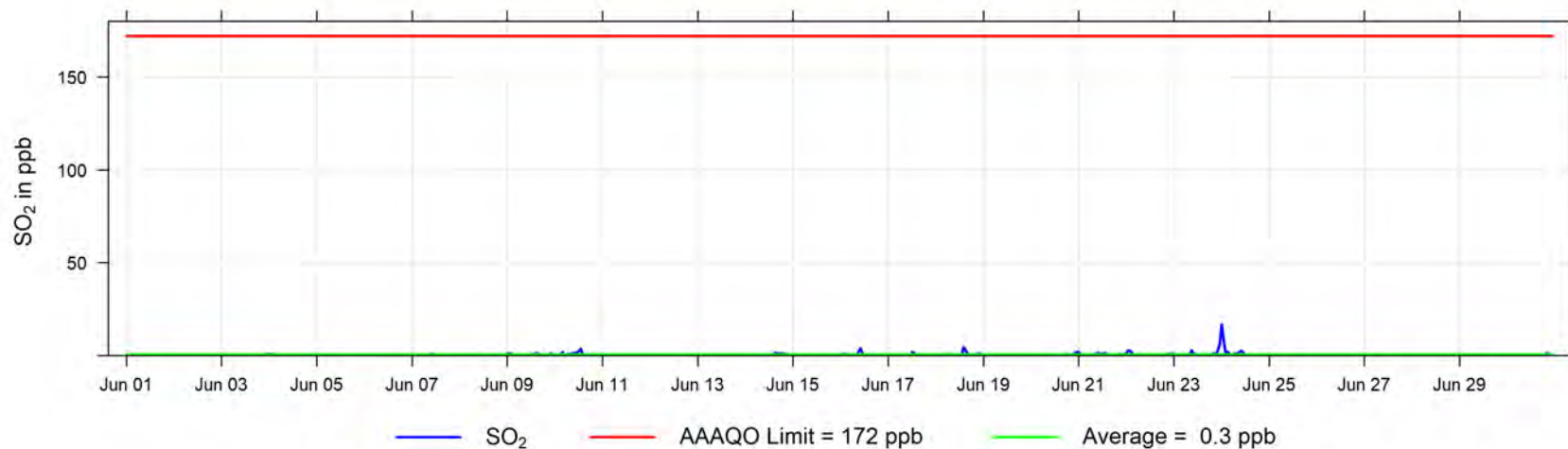
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	June 25, shut down calibration for API T200 NOx (s/n:7980, loaner unit), install calibration PAZA API T200 NOx (s/n:3672, repaired unit), no issues noted
PM _{2.5}	API	T640	No operational issues, June 7 to 12, 24x1hr readings above AAAQG and 4x24hr readings above AAAQO
Met Equip	MetOne	50.5	No operational issues noted during the month

2 Beaverlodge Charts

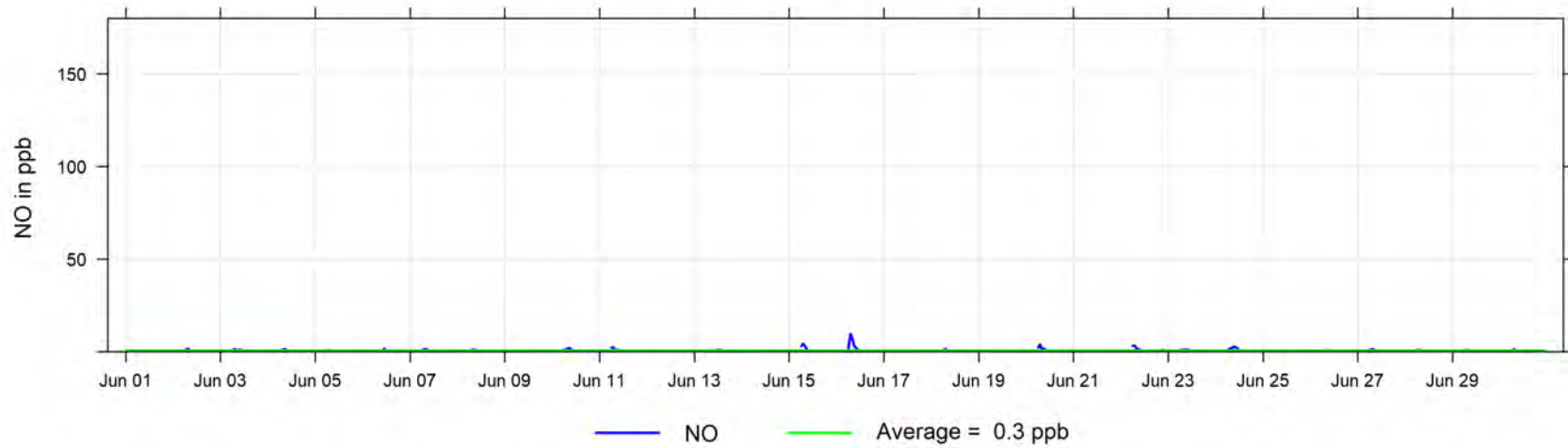
The following pages include the charts and histograms for Beaverlodge Station



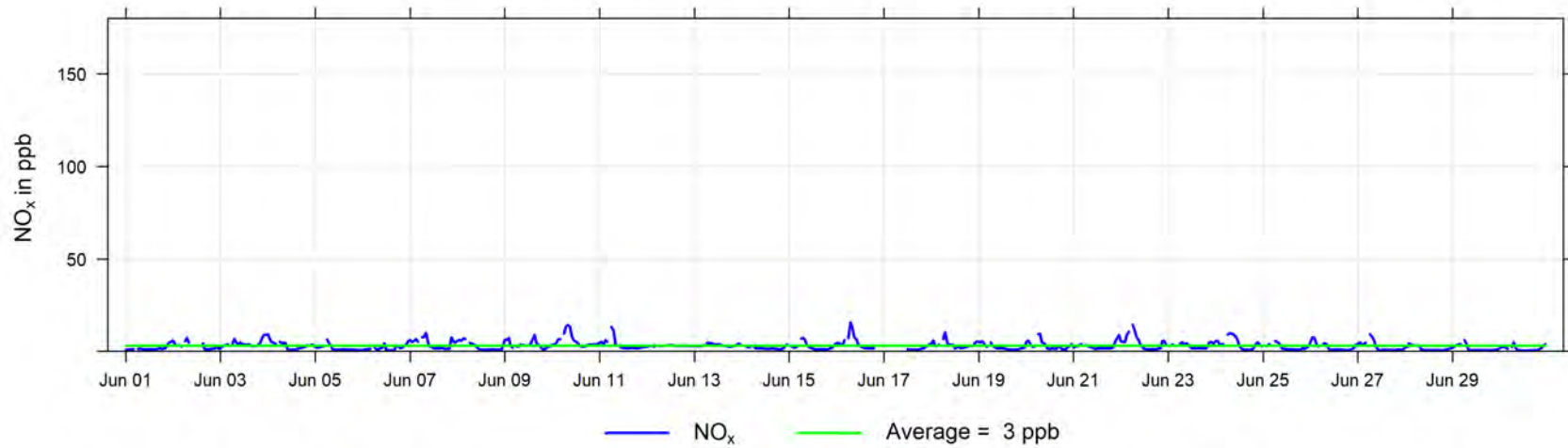
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



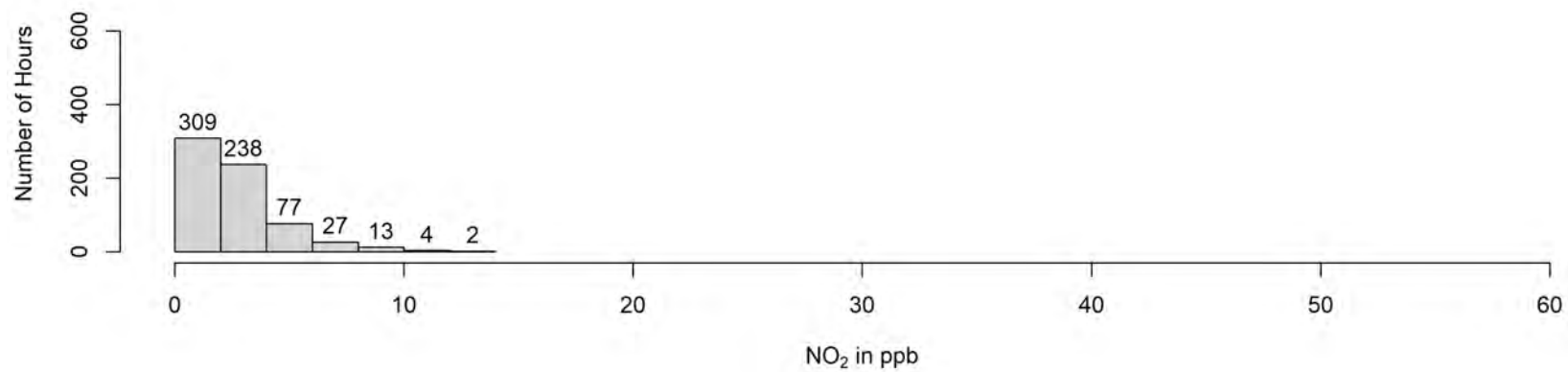
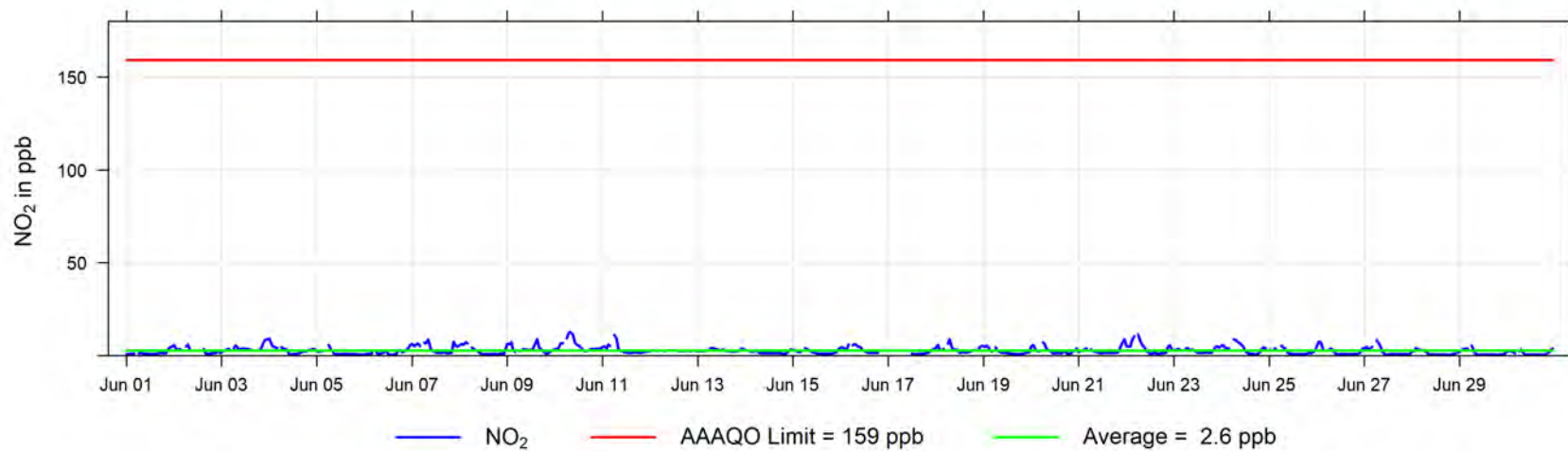
June 2025 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



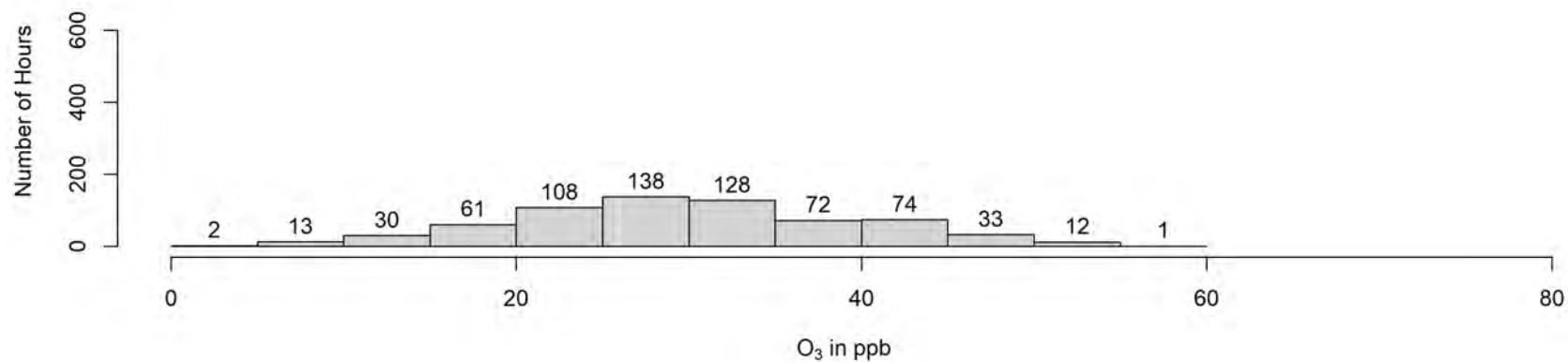
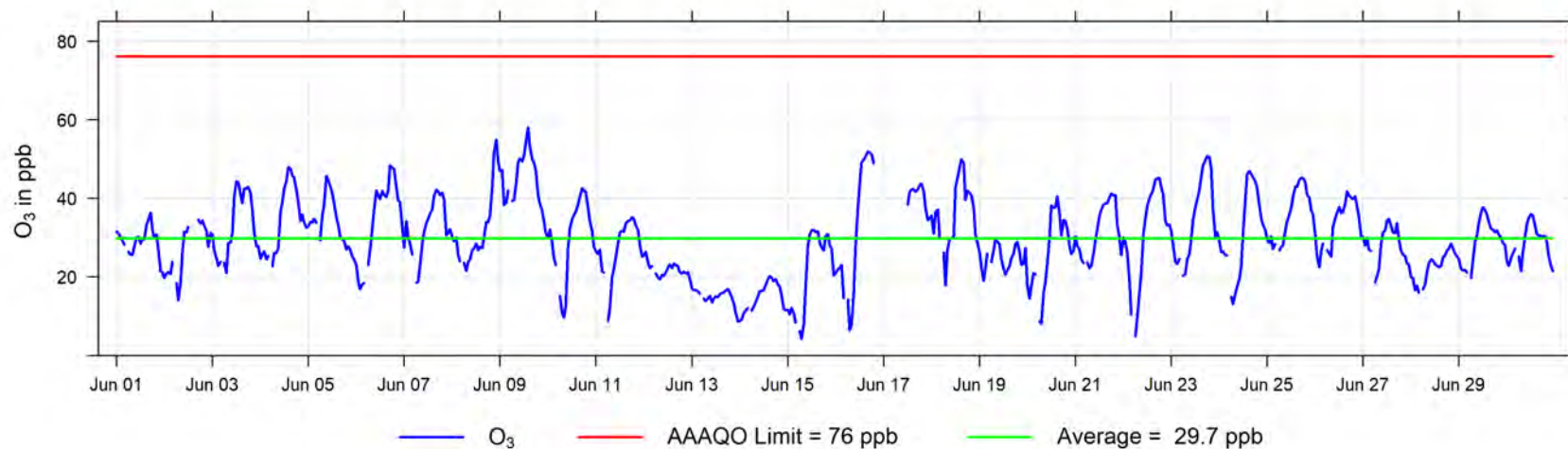
June 2025 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



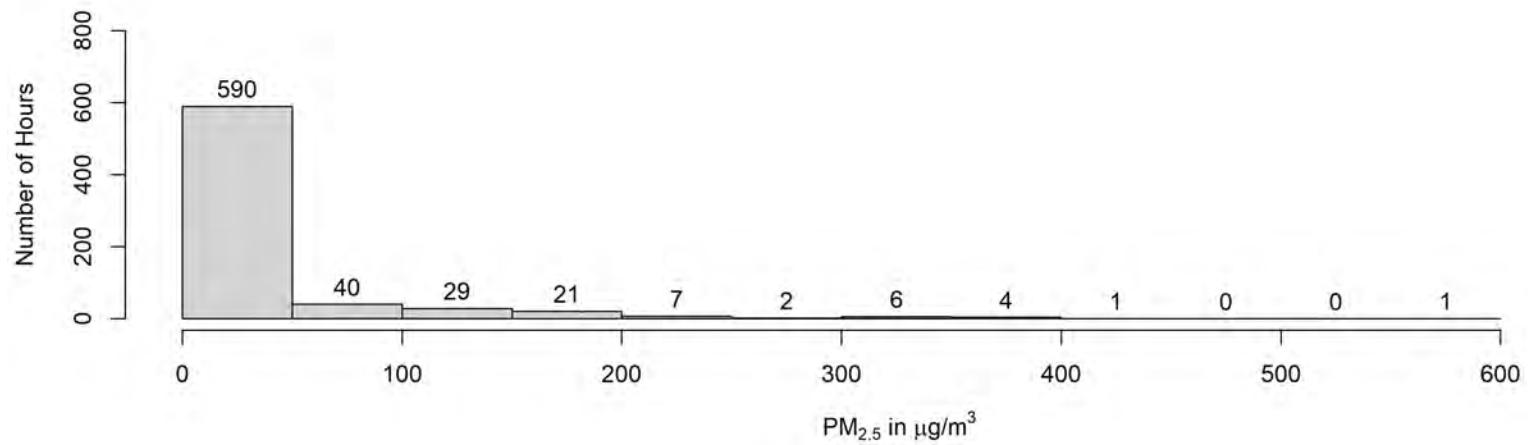
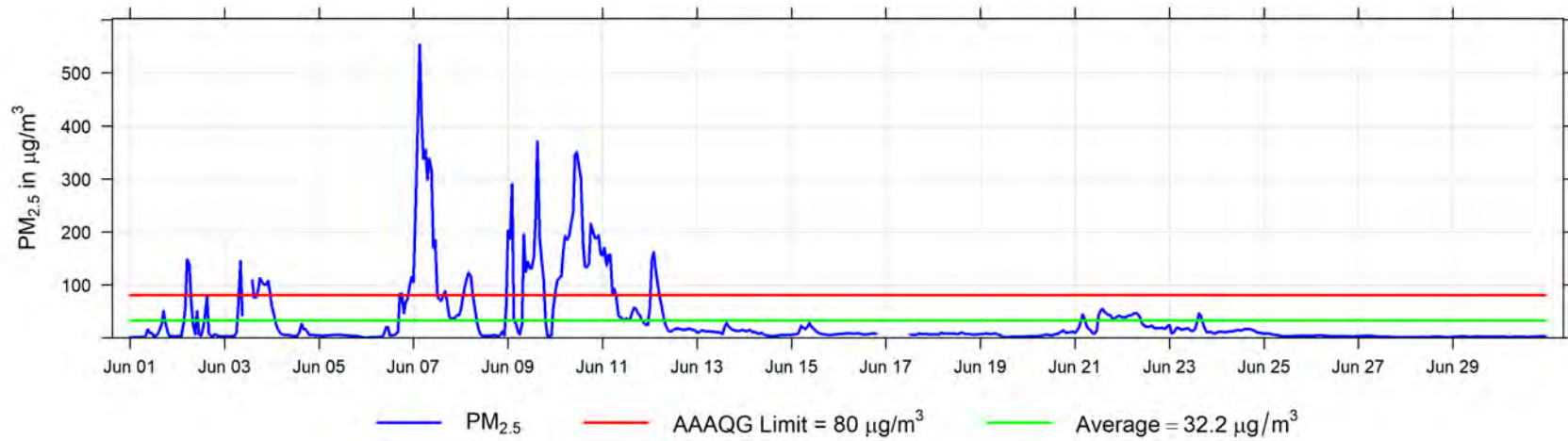
June 2025 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



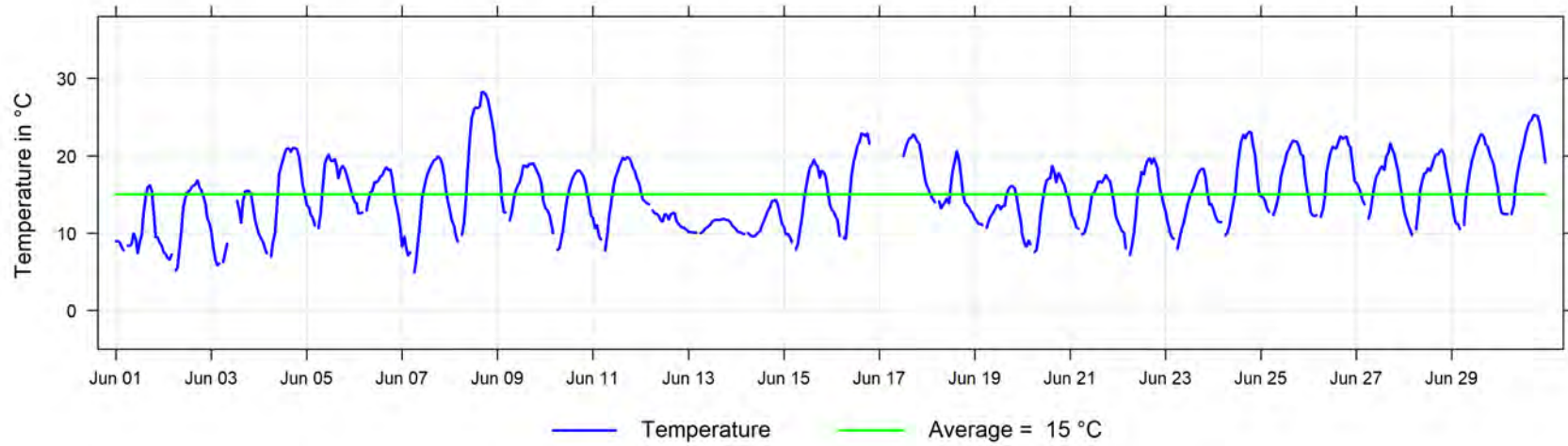
June 2025 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



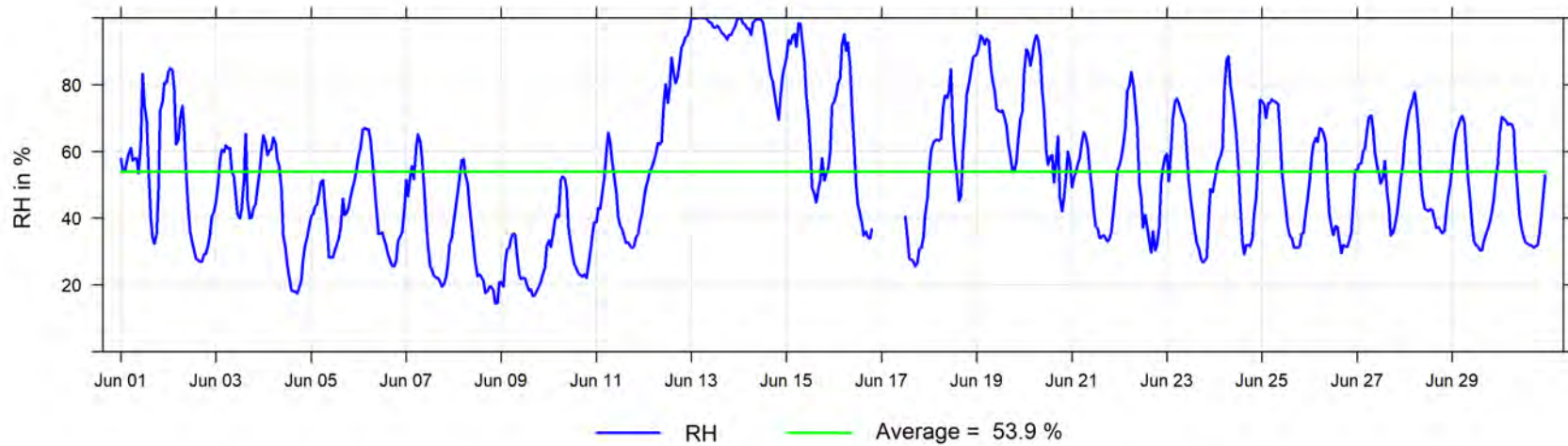
June 2025 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Beaverlodge



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



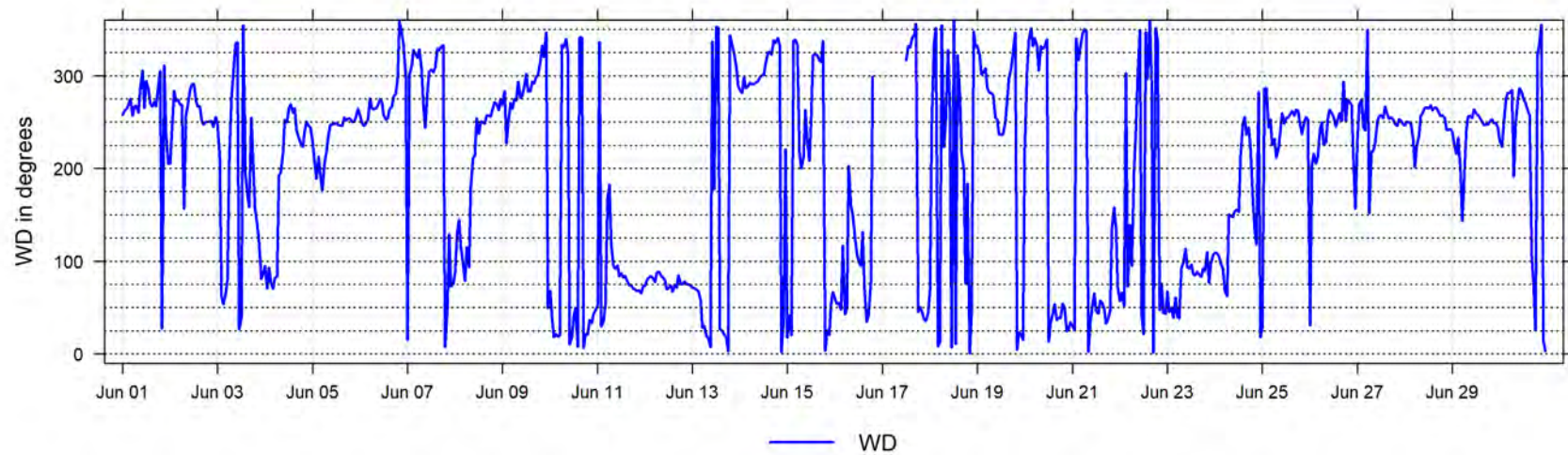
June 2025 Hourly Readings of Relative Humidity (in %) at Beaverlodge



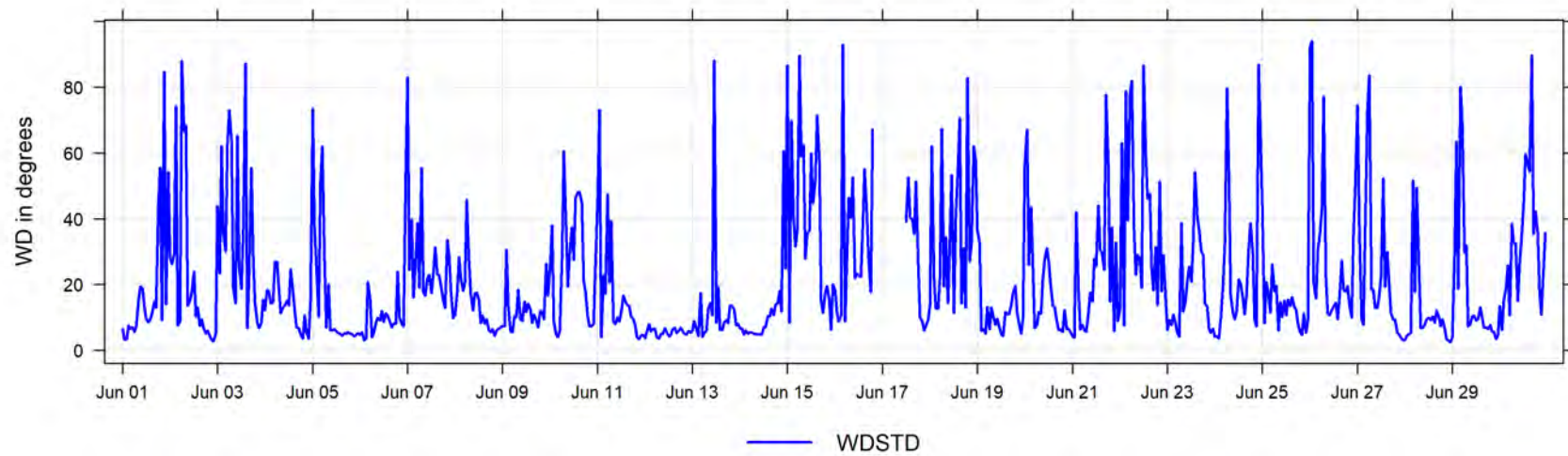
June 2025 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

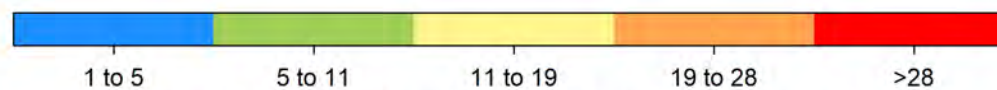
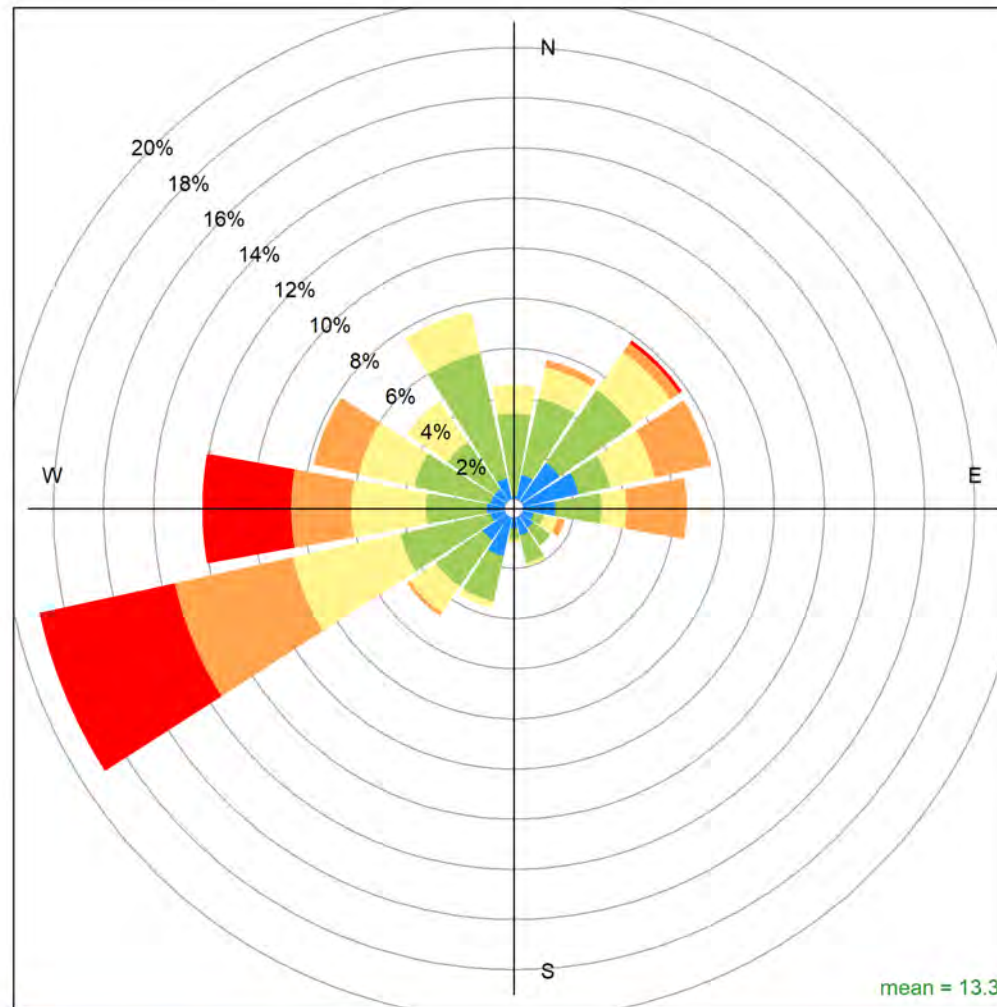


June 2025 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



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



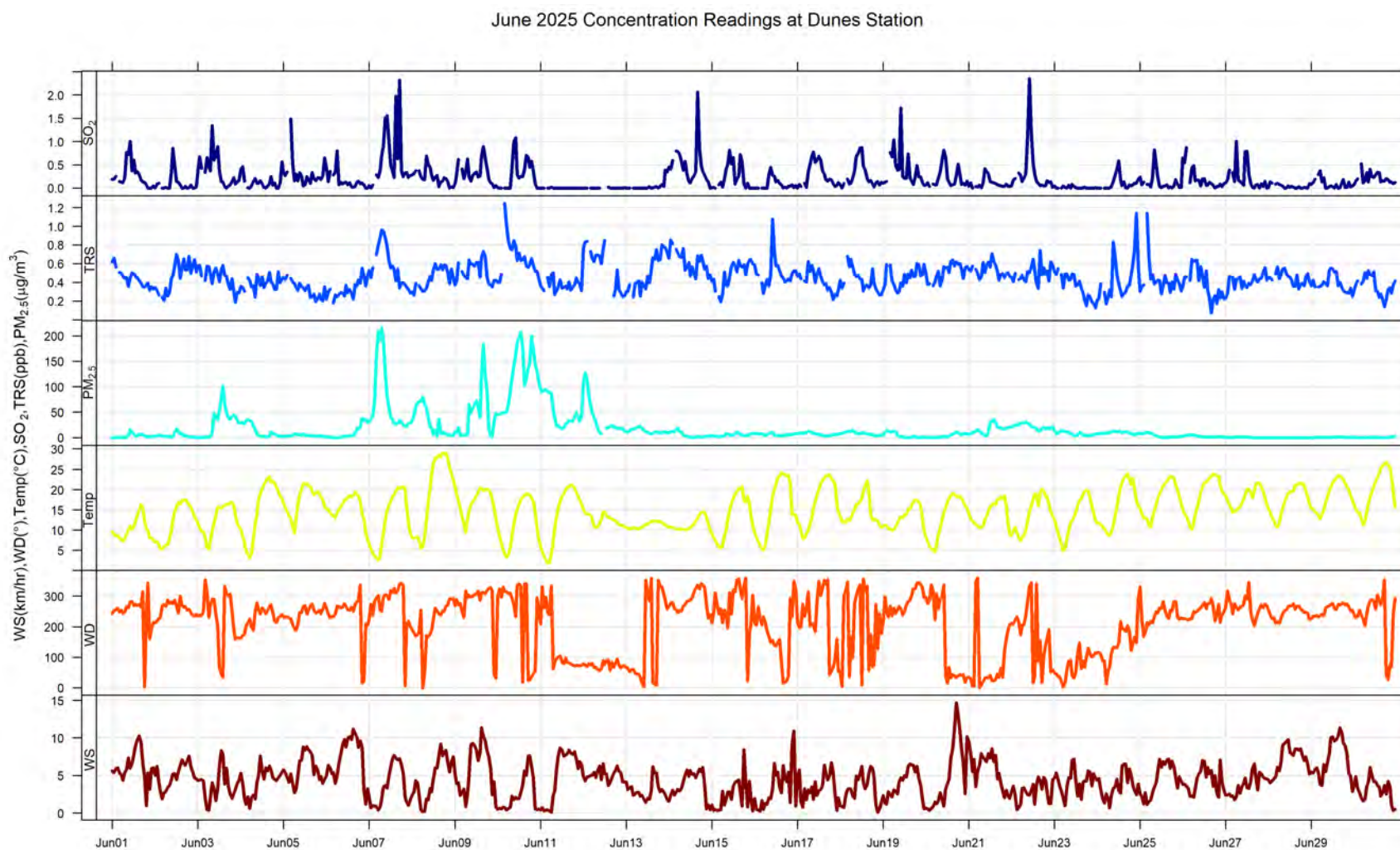


Beaverlodge June 2025 Wind Rose, wind speed in km/hr

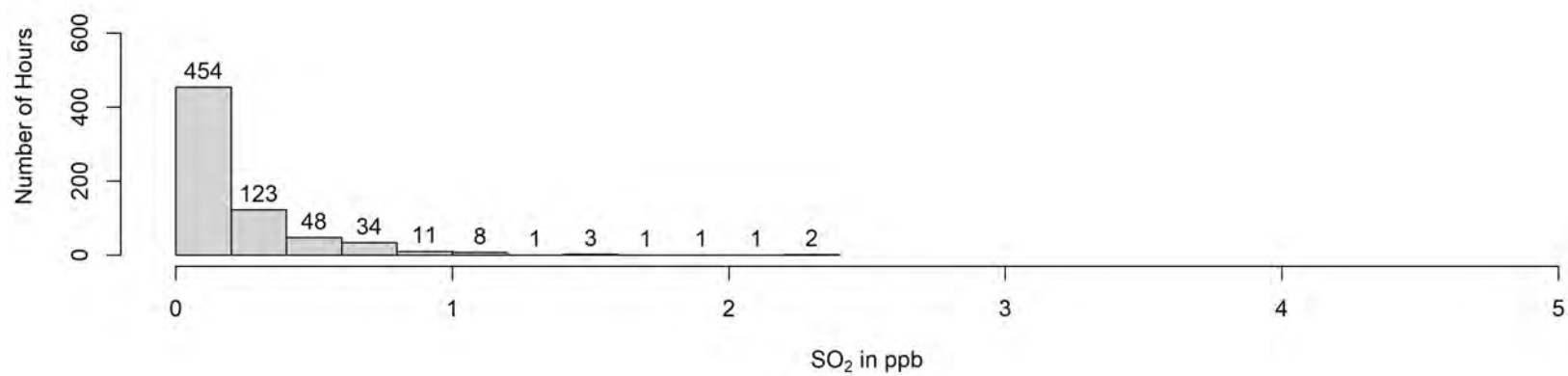
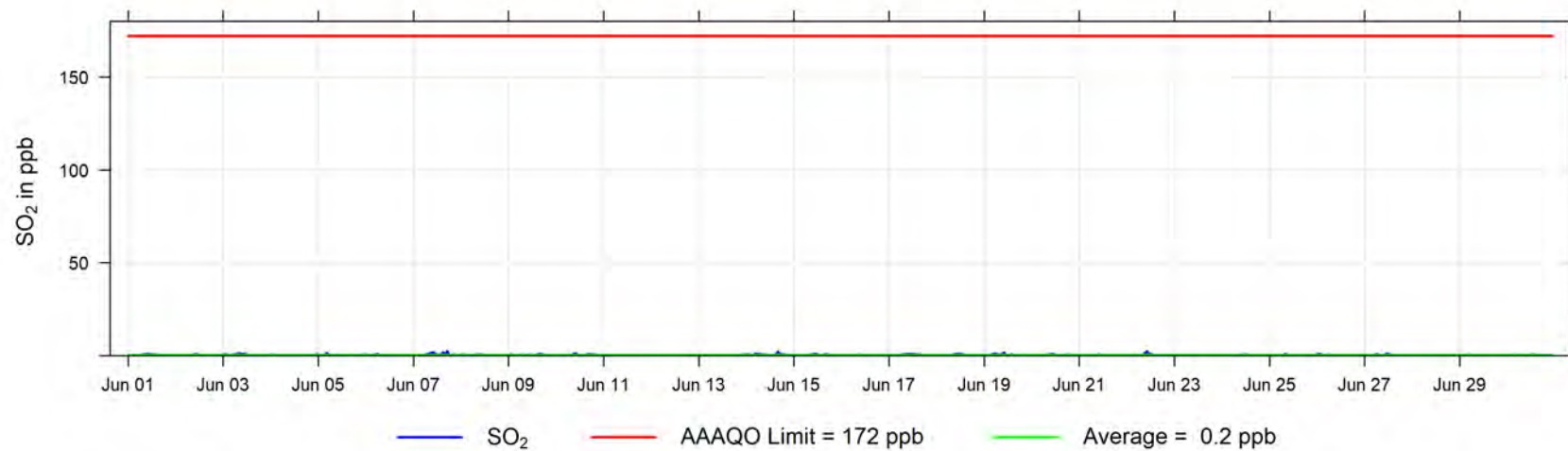
Calms (<1km/hr) = 1.8 %

3 Dunes Charts

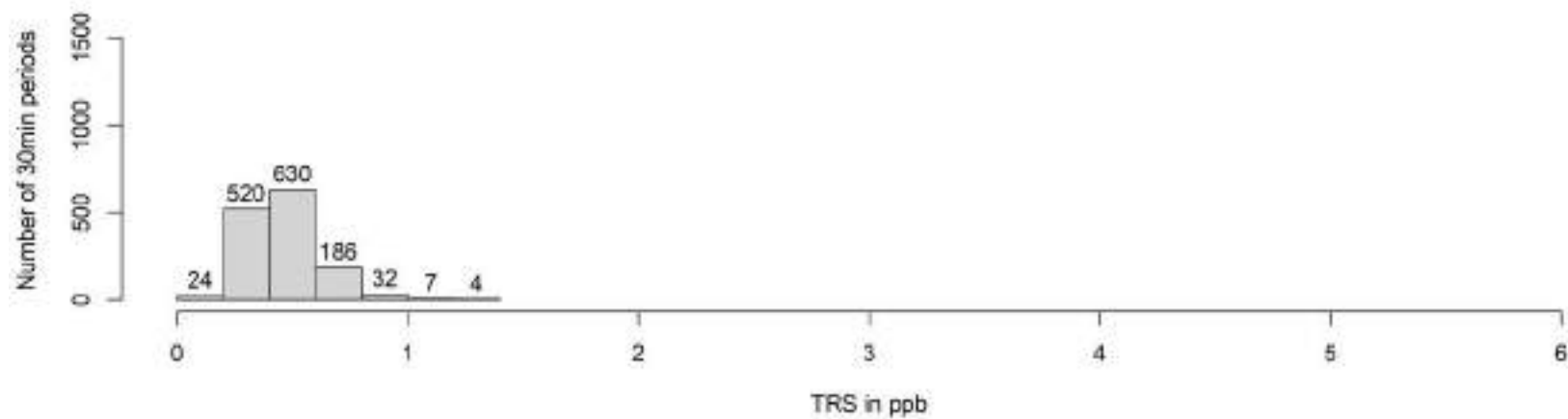
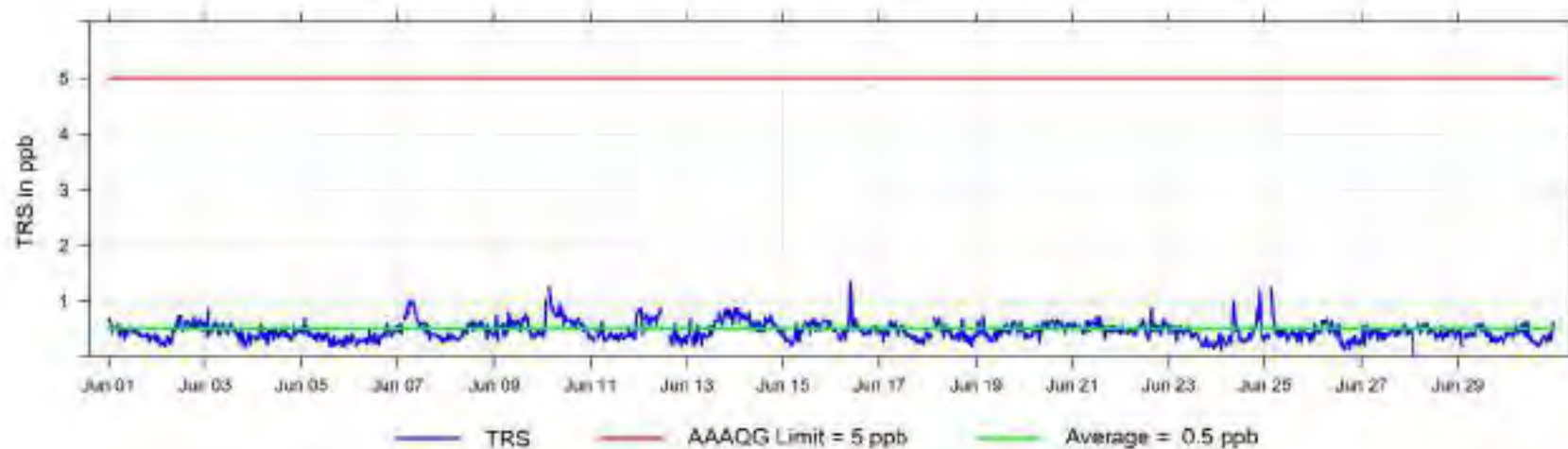
The following pages include the charts and histograms for Dunes Station



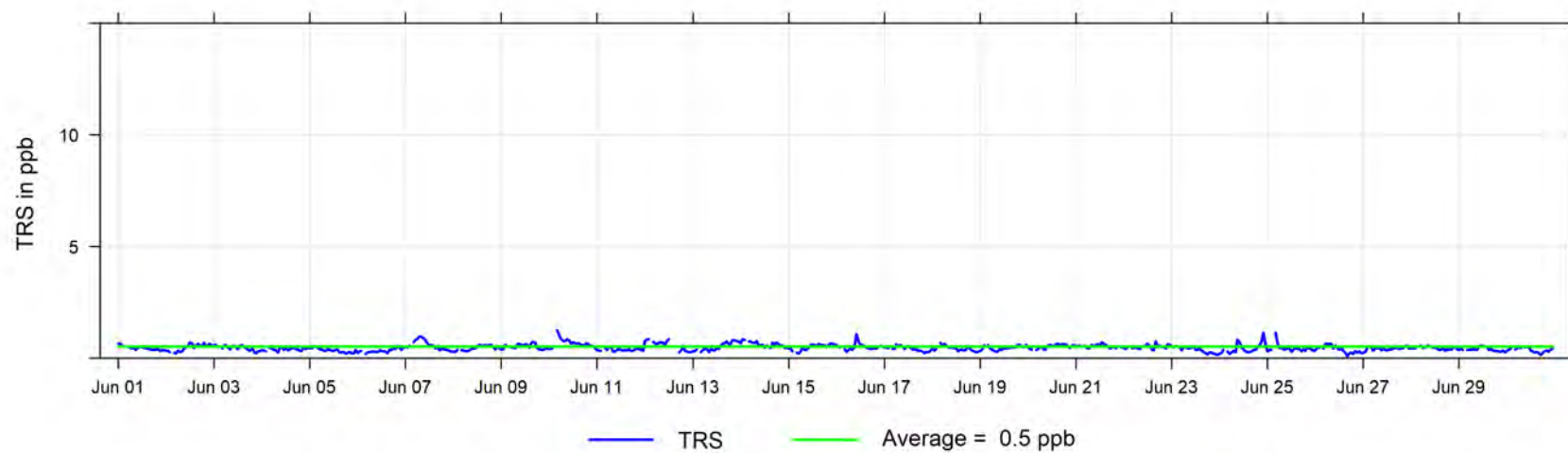
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



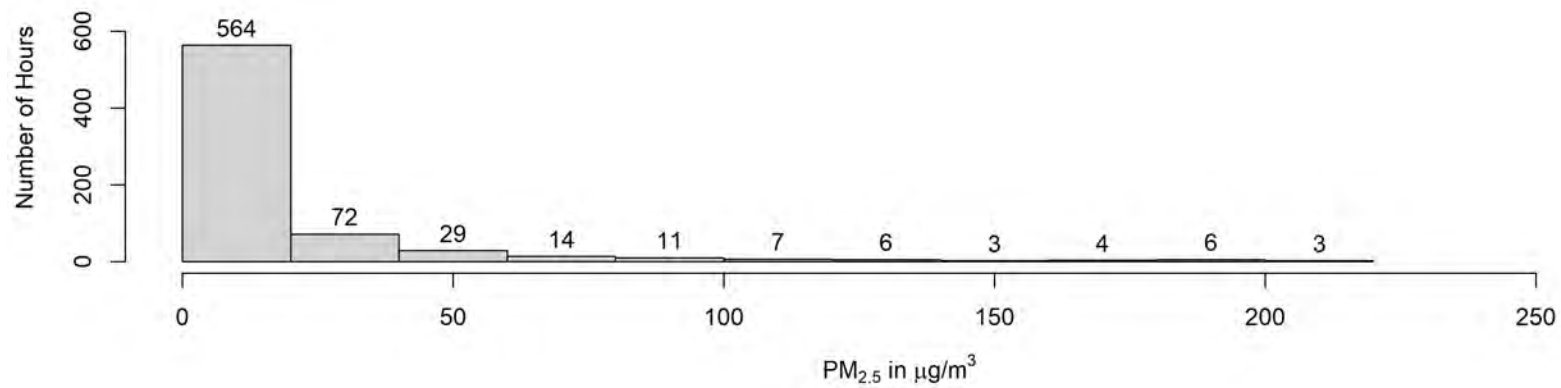
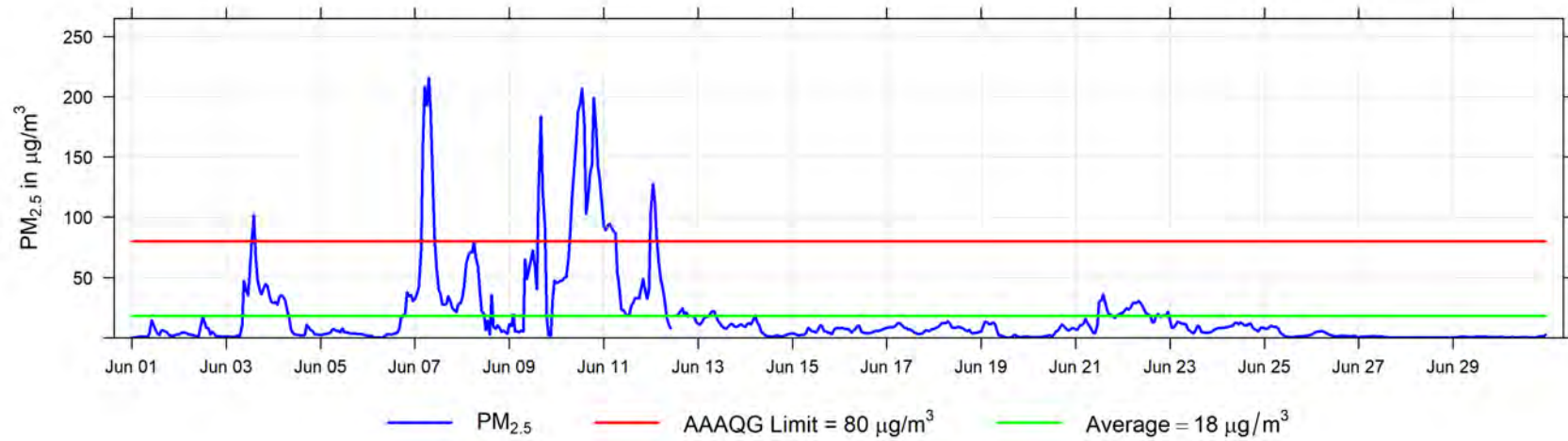
June 2025 30 min Concentration Readings of TRS (in ppb) at Dunes



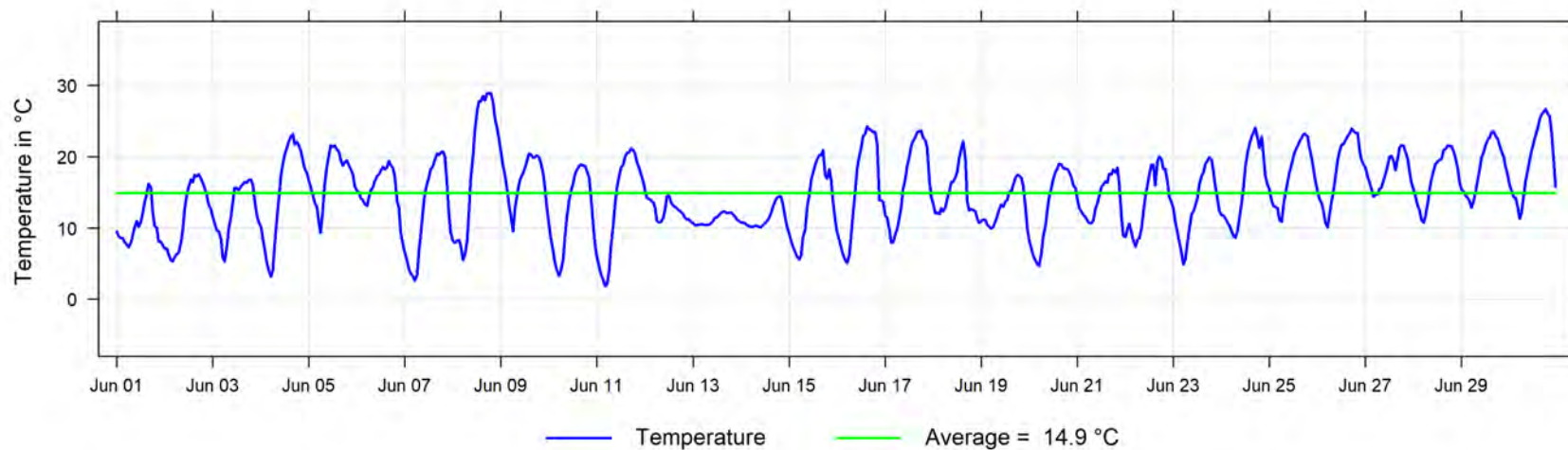
June 2025 Hourly Concentration Readings of TRS (in ppb) at Dunes



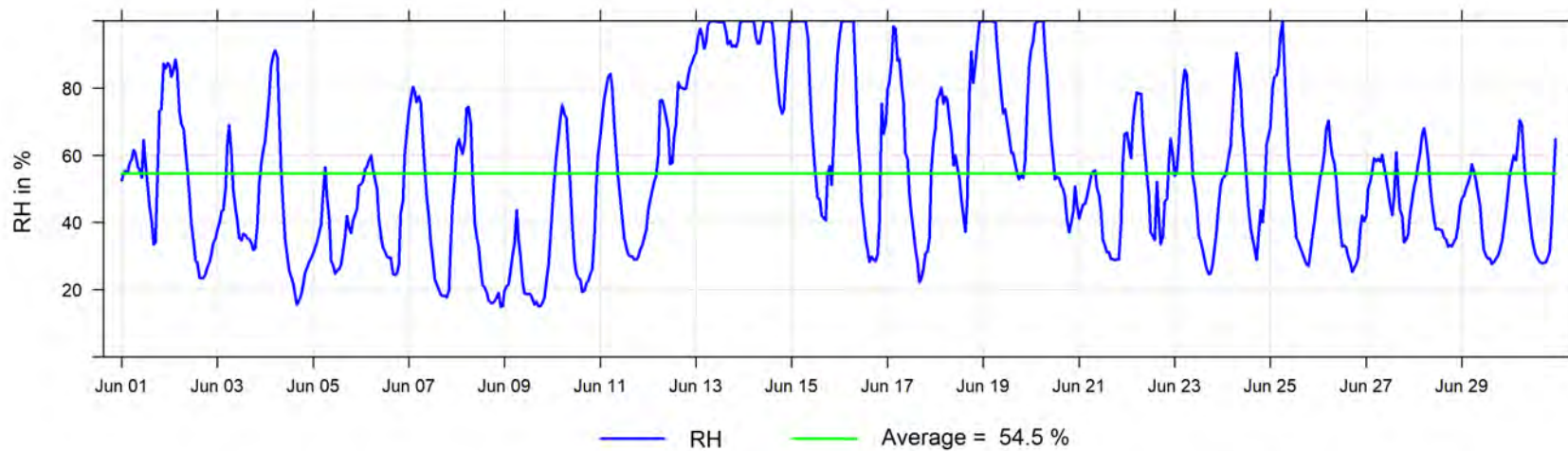
June 2025 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Dunes



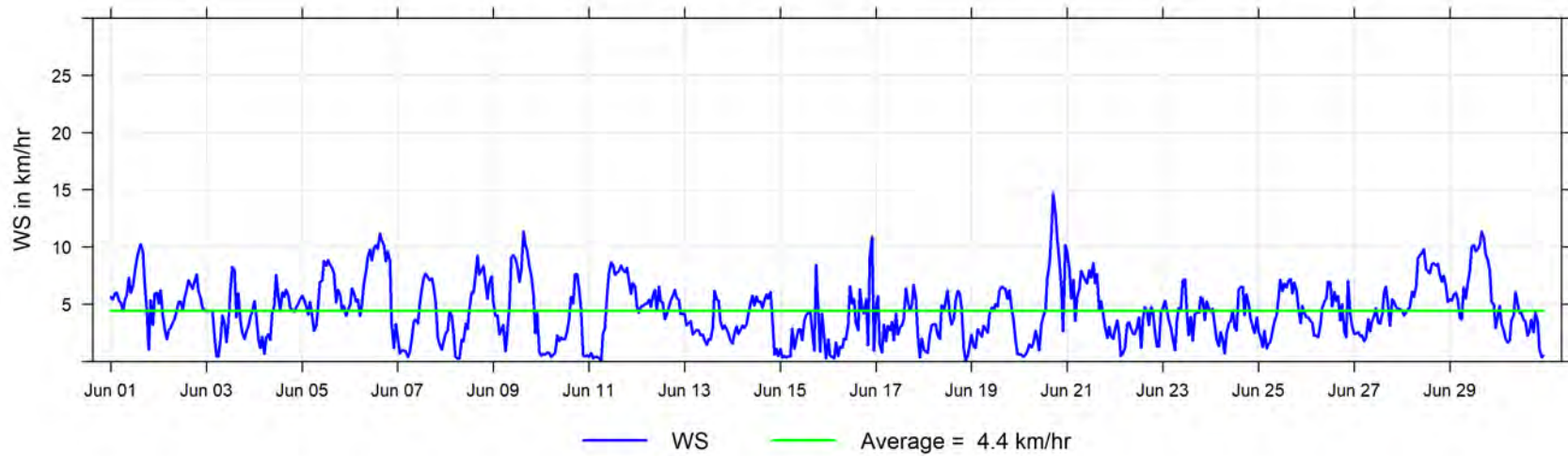
June 2025 Hourly Temperature Readings (in °C) at Dunes



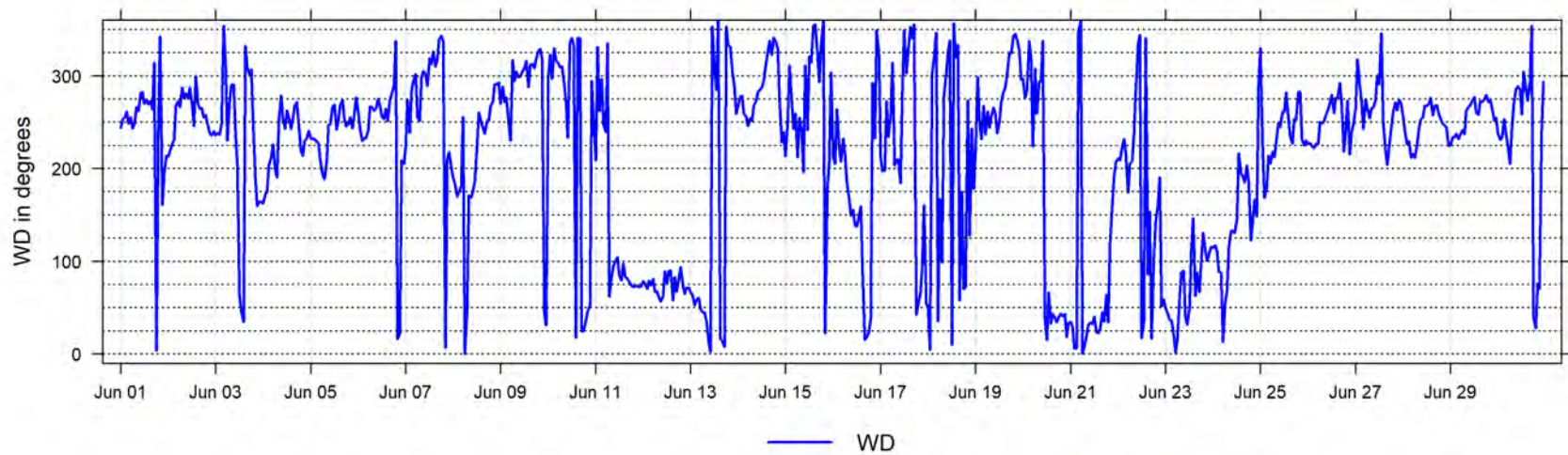
June 2025 Hourly Readings of Relative Humidity (in %) at Dunes



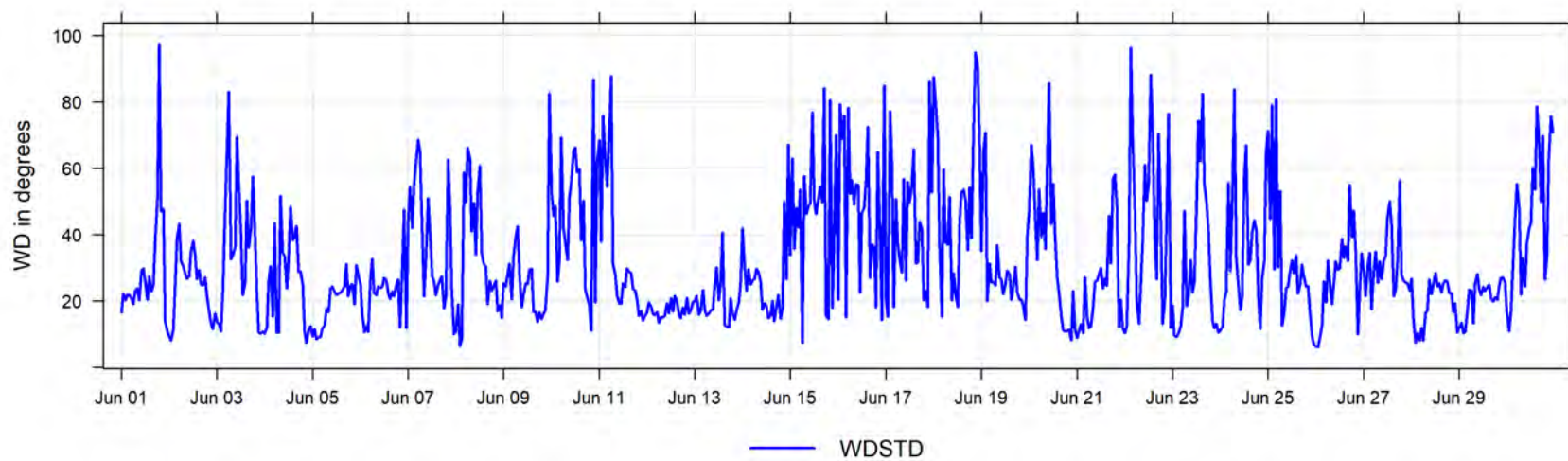
June 2025 Hourly Readings of Wind Speed (in km/hr) at Dunes

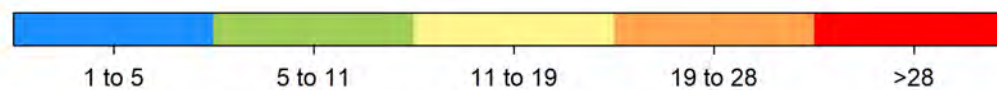
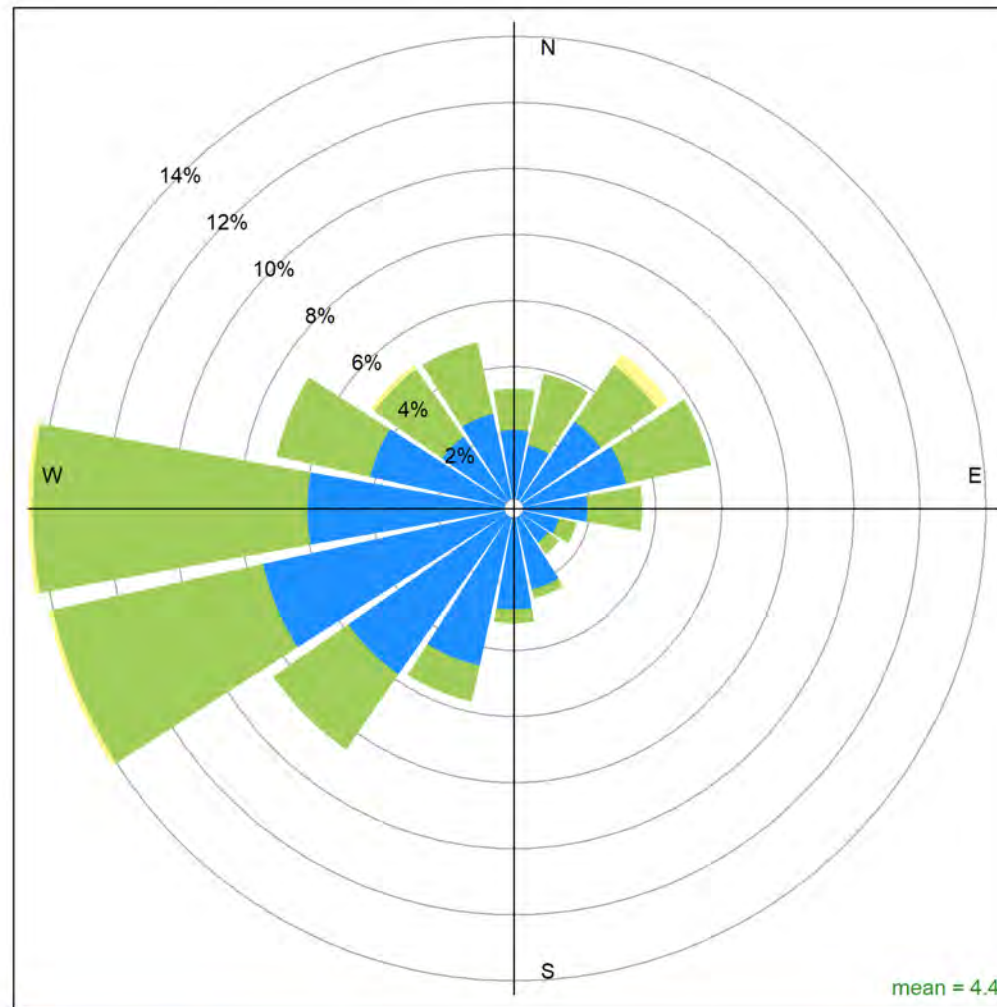


June 2025 Hourly Readings of Wind Direction (in degrees) at Dunes



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





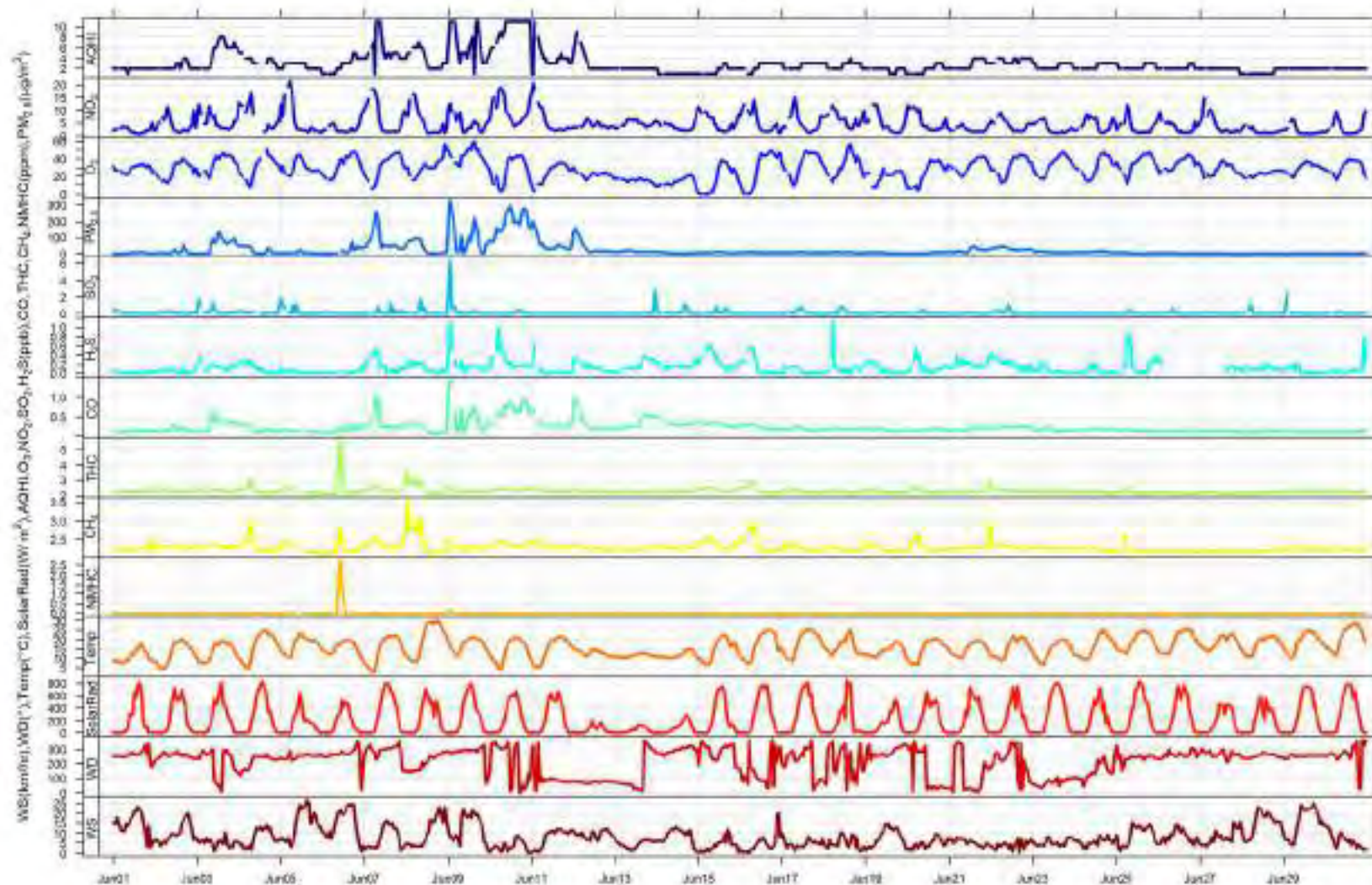
Dunes June 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 9.4 %

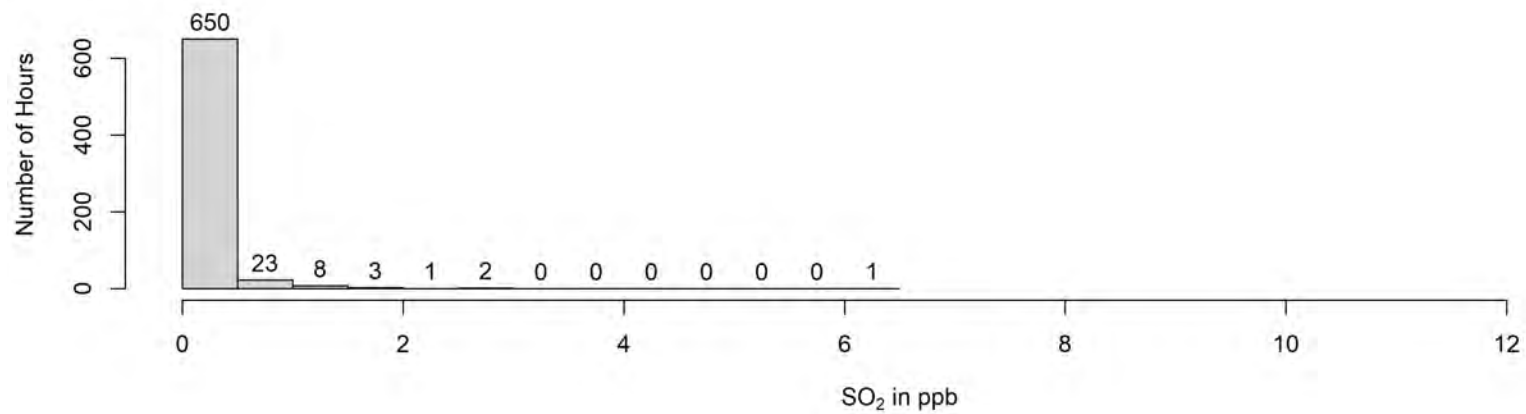
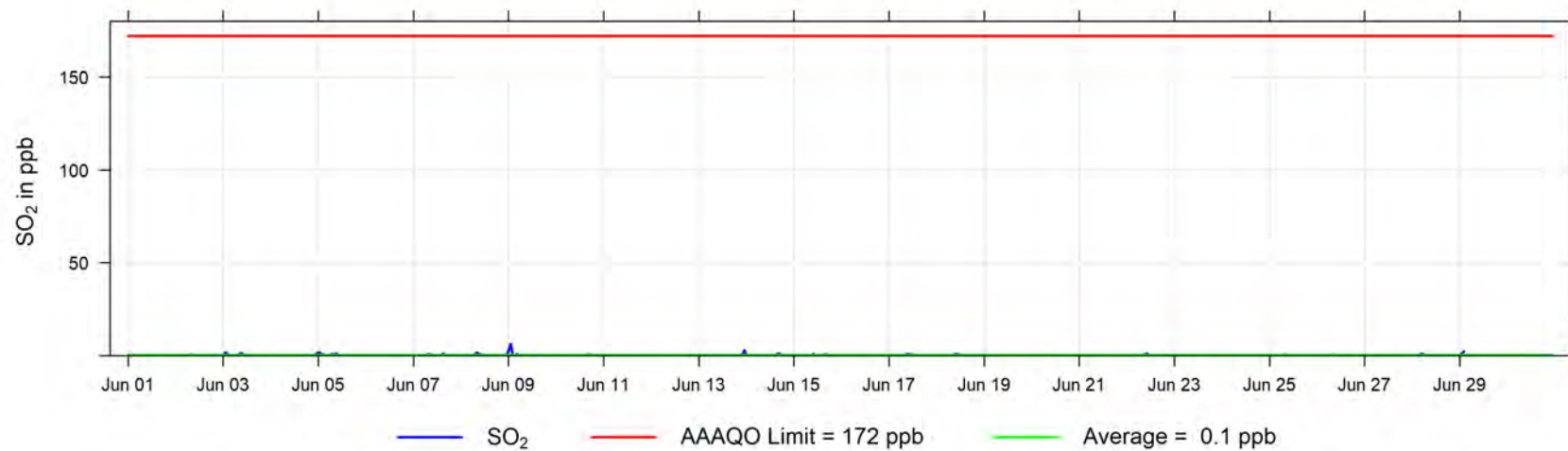
4 Grande Prairie - Henry Pirker Charts

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

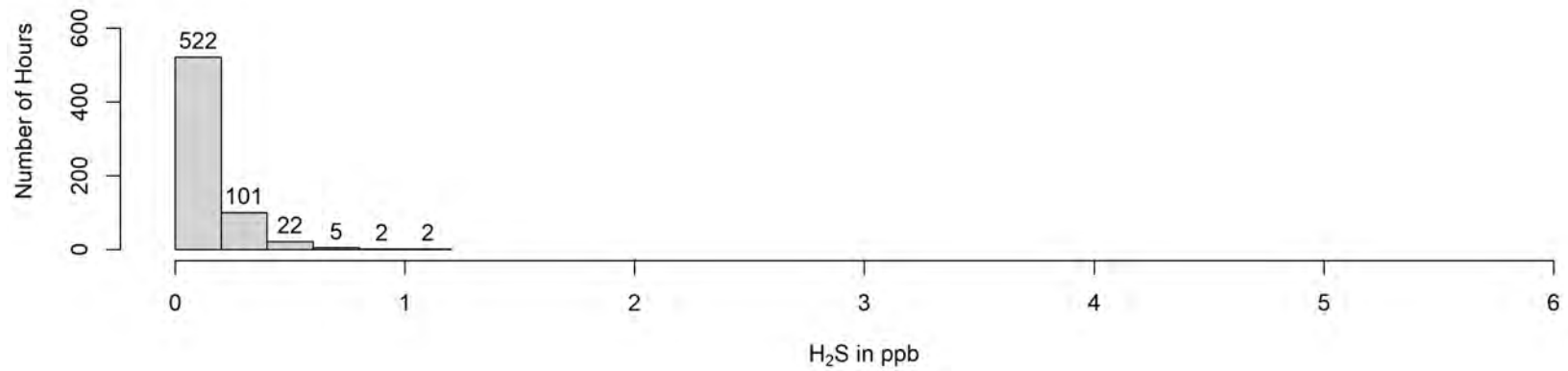
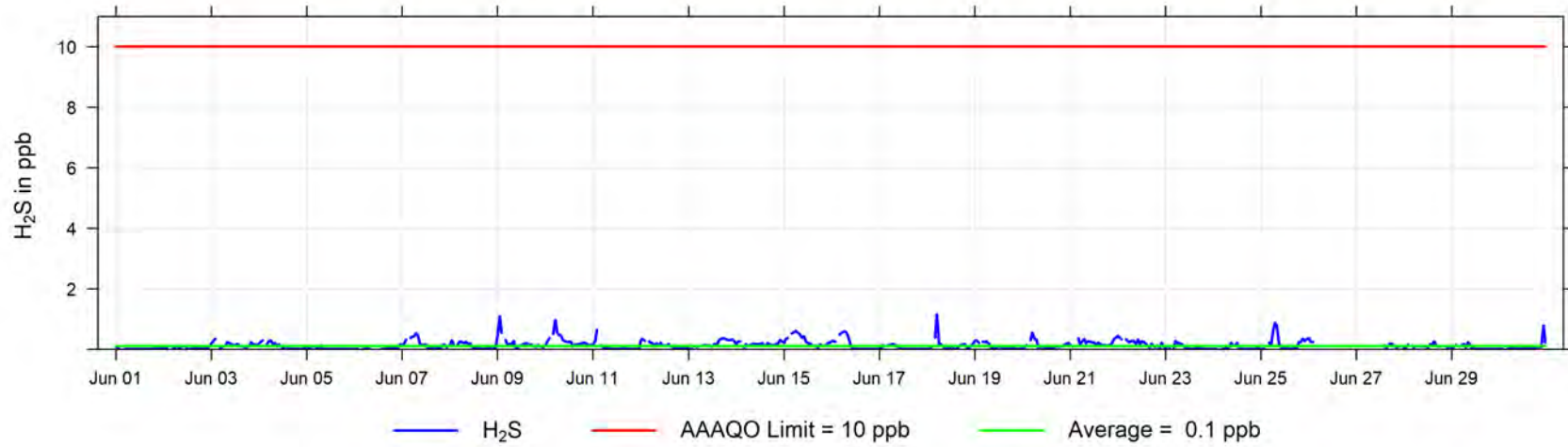
June 2025 Concentration Readings at Henry Pirker Station



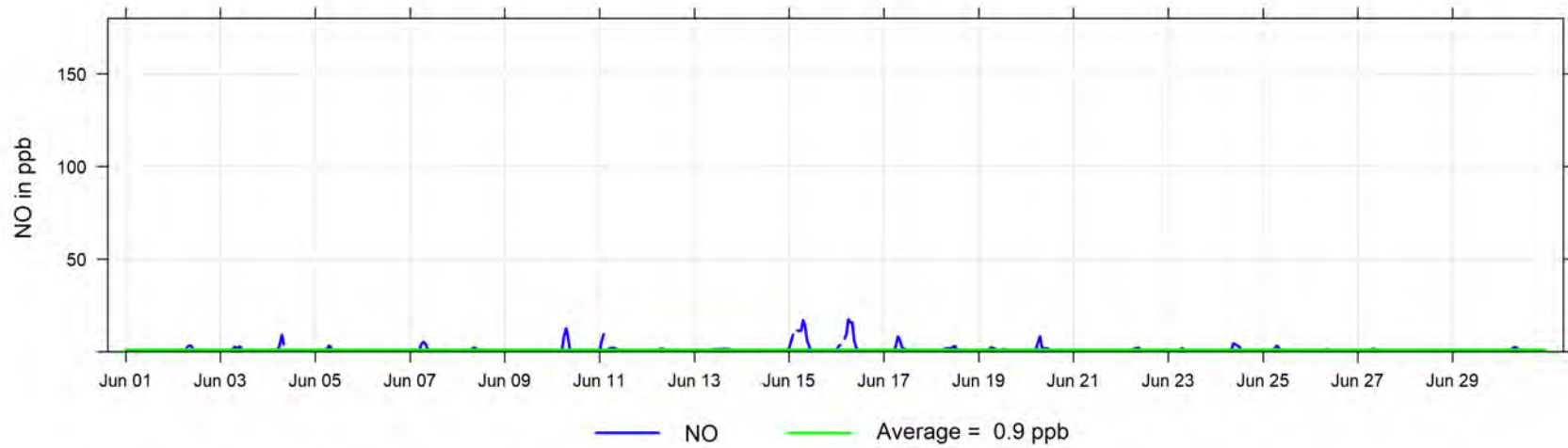
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



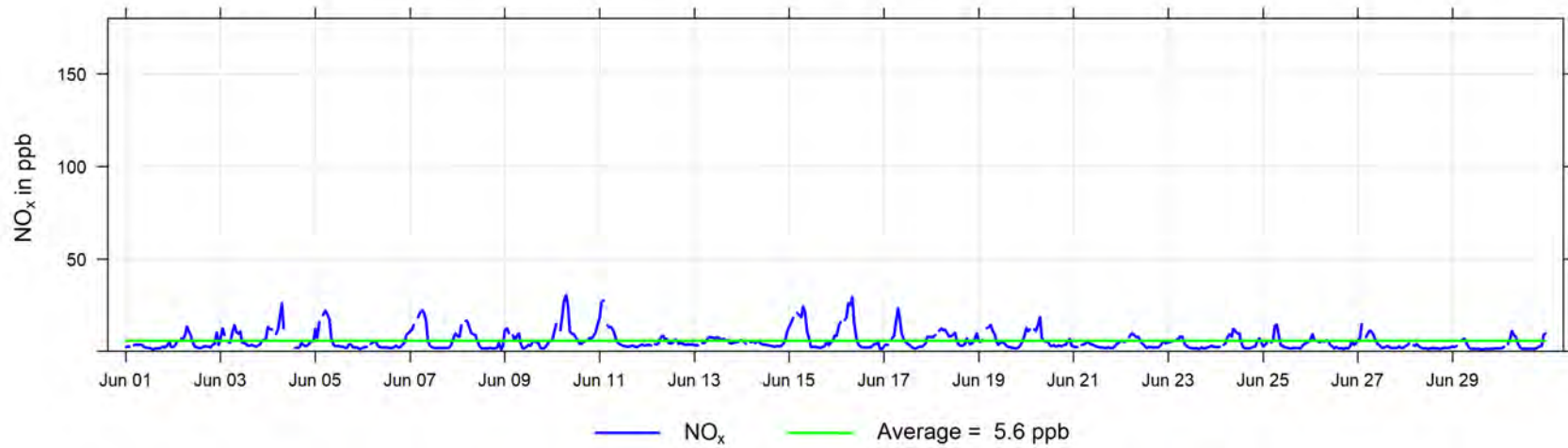
June 2025 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



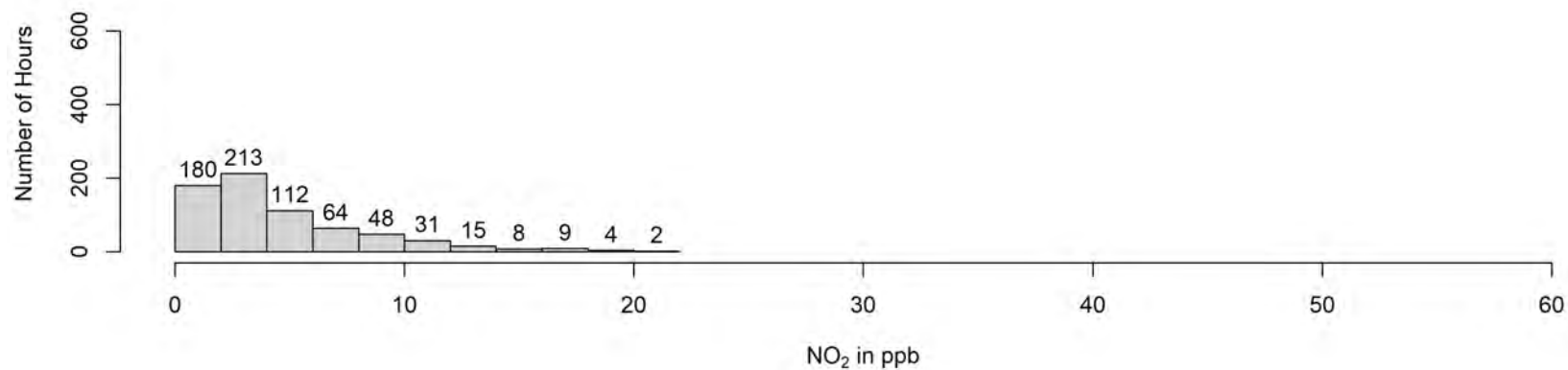
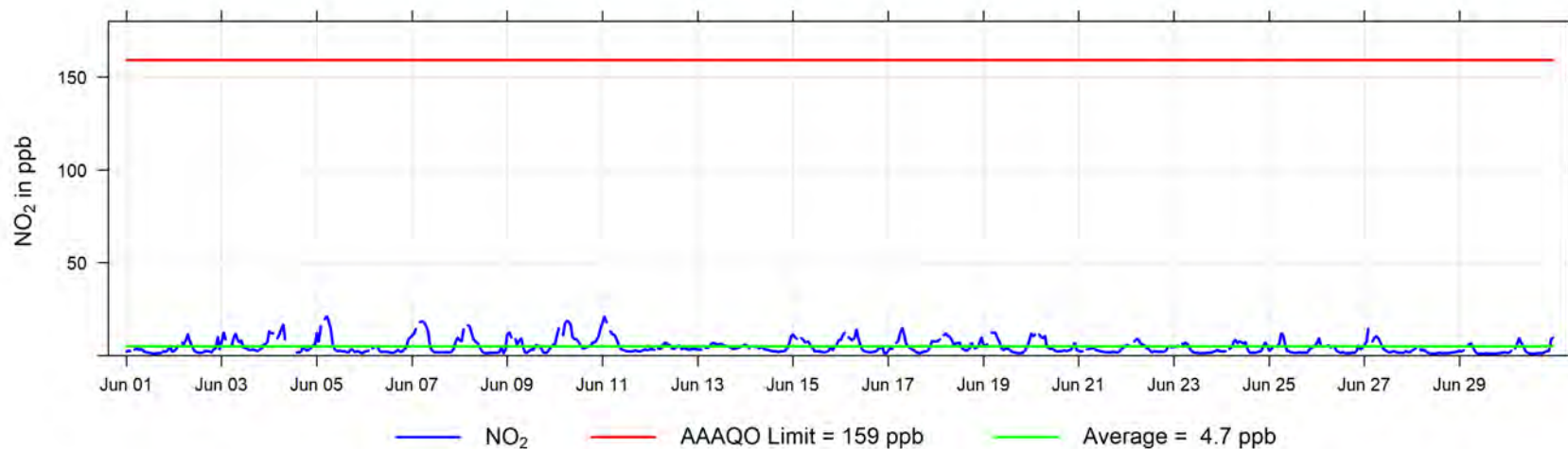
June 2025 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



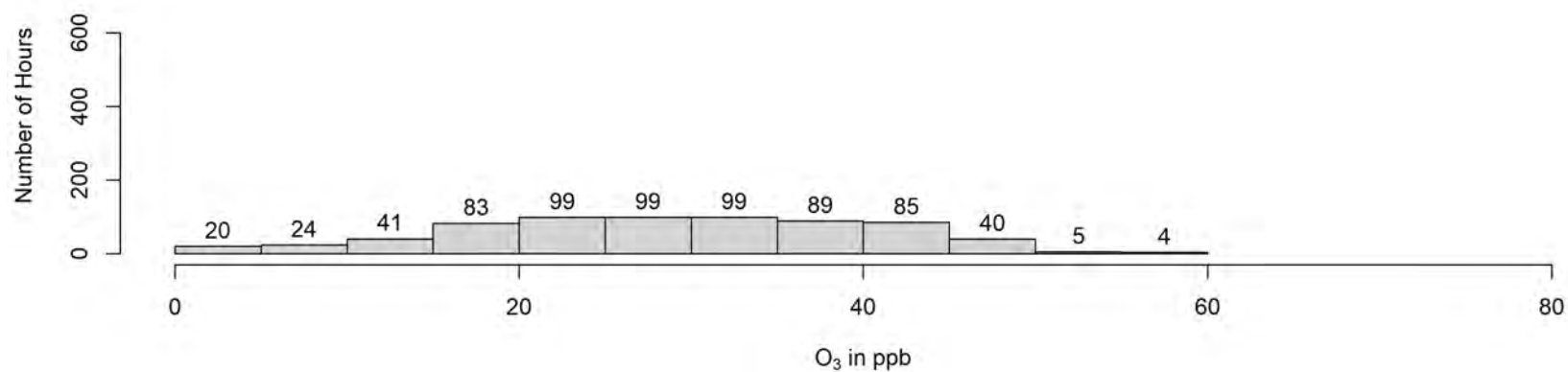
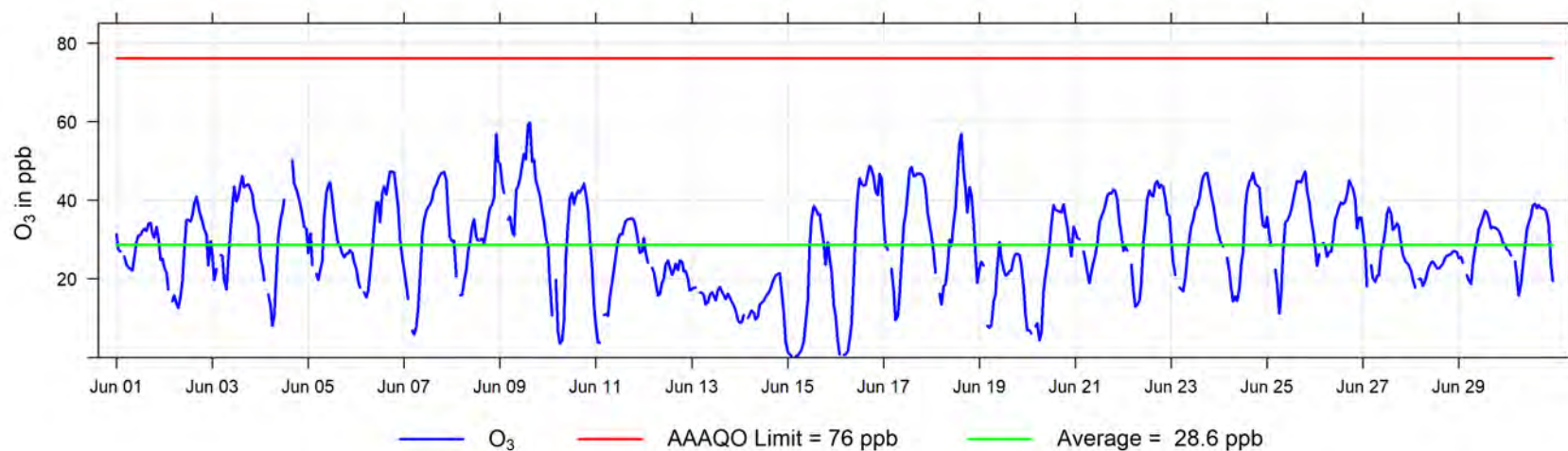
June 2025 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



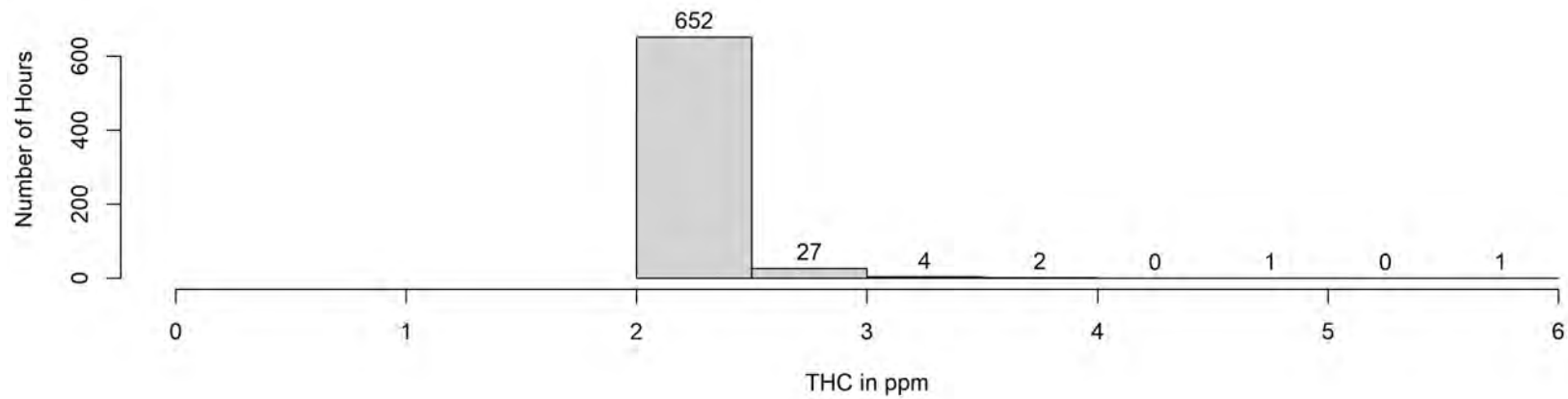
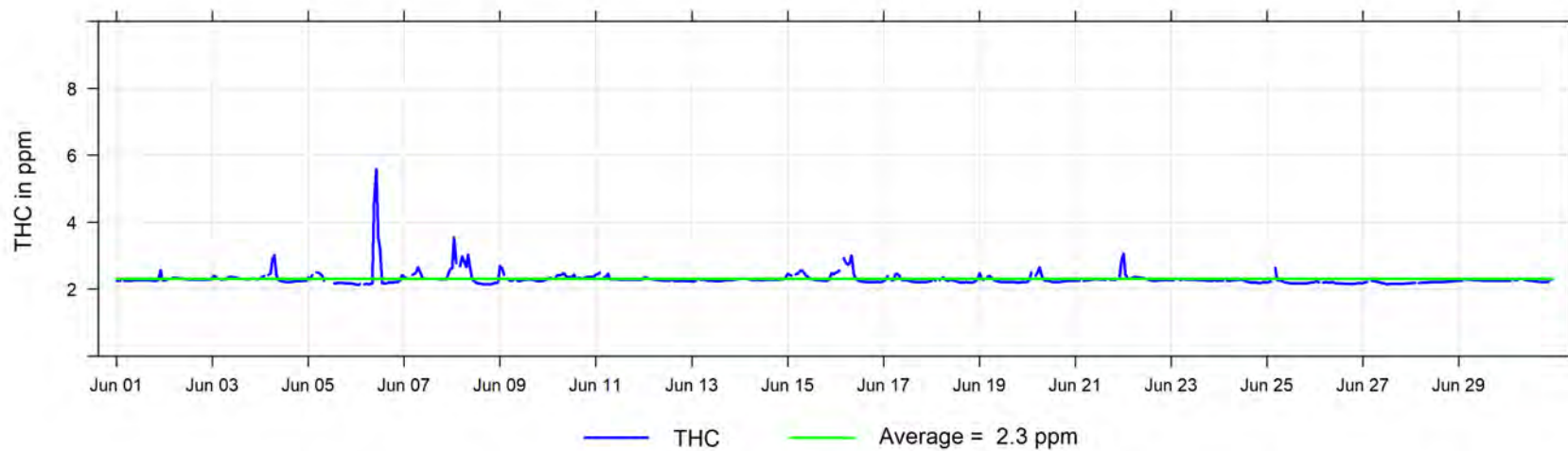
June 2025 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



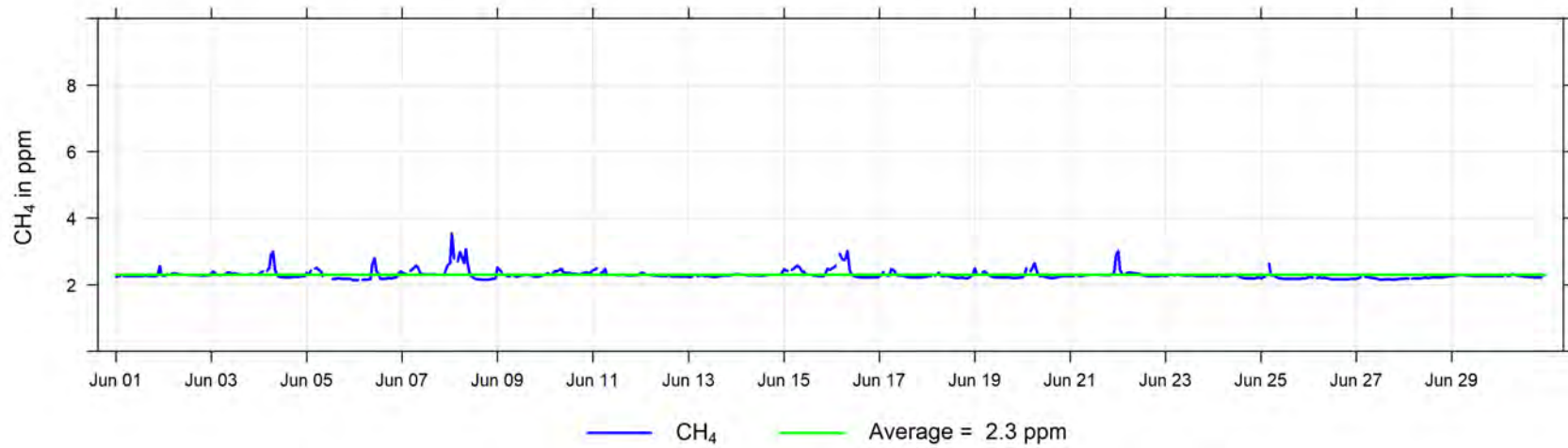
June 2025 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



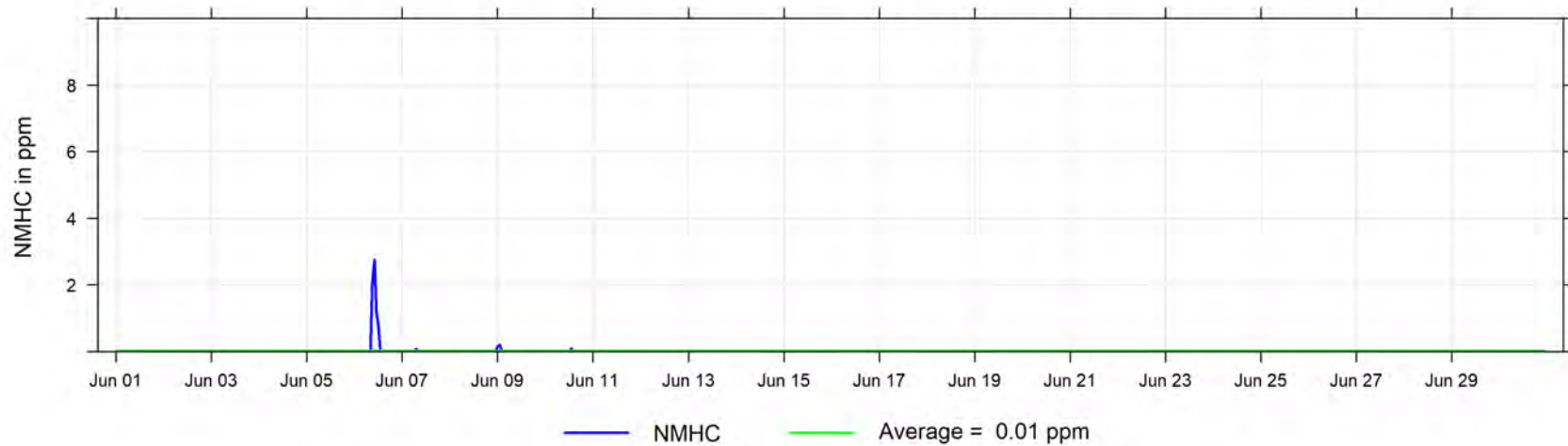
June 2025 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



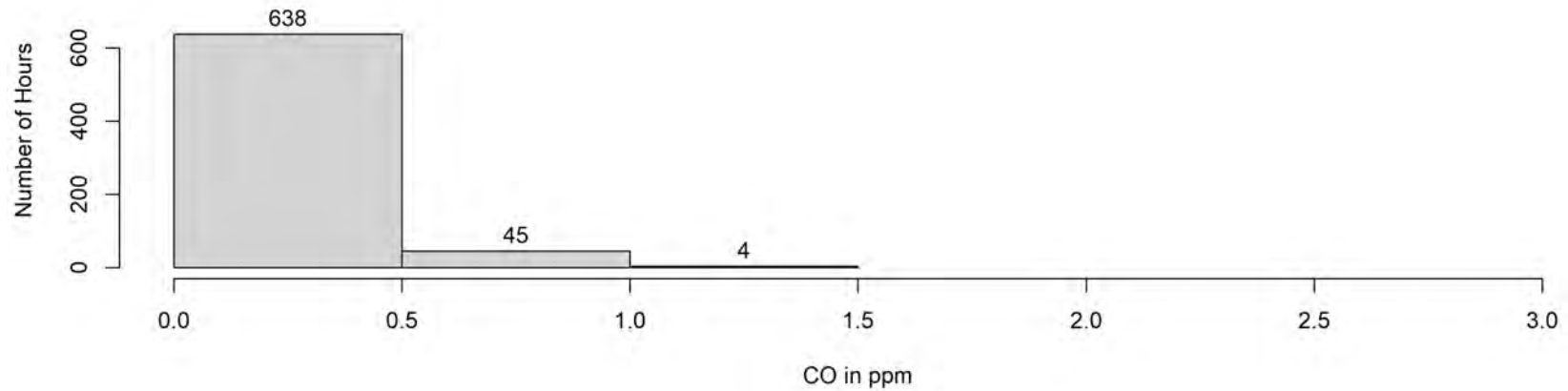
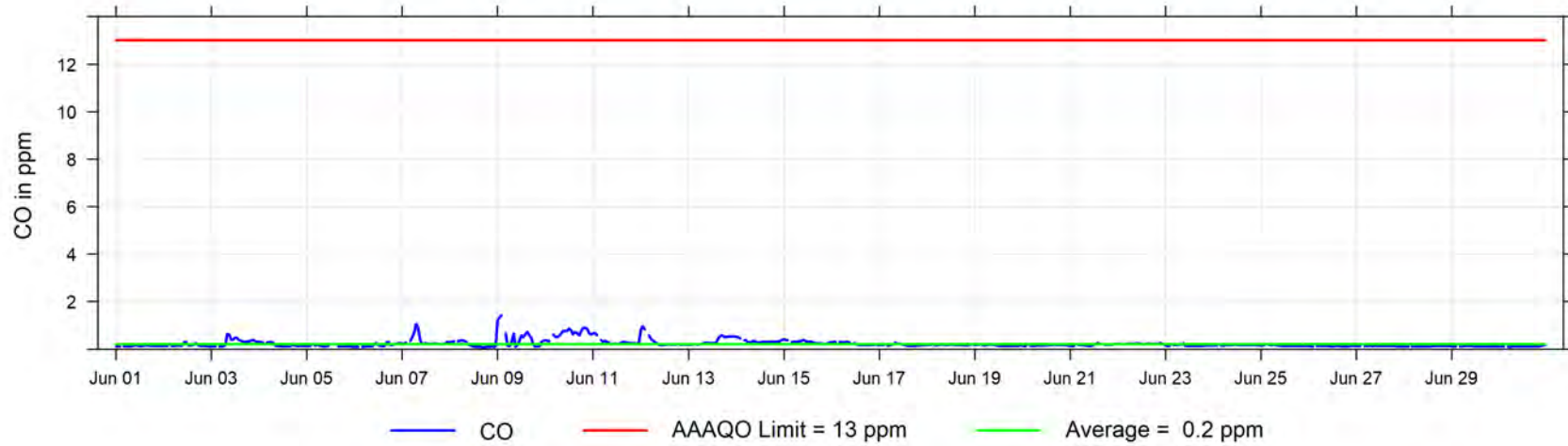
June 2025 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



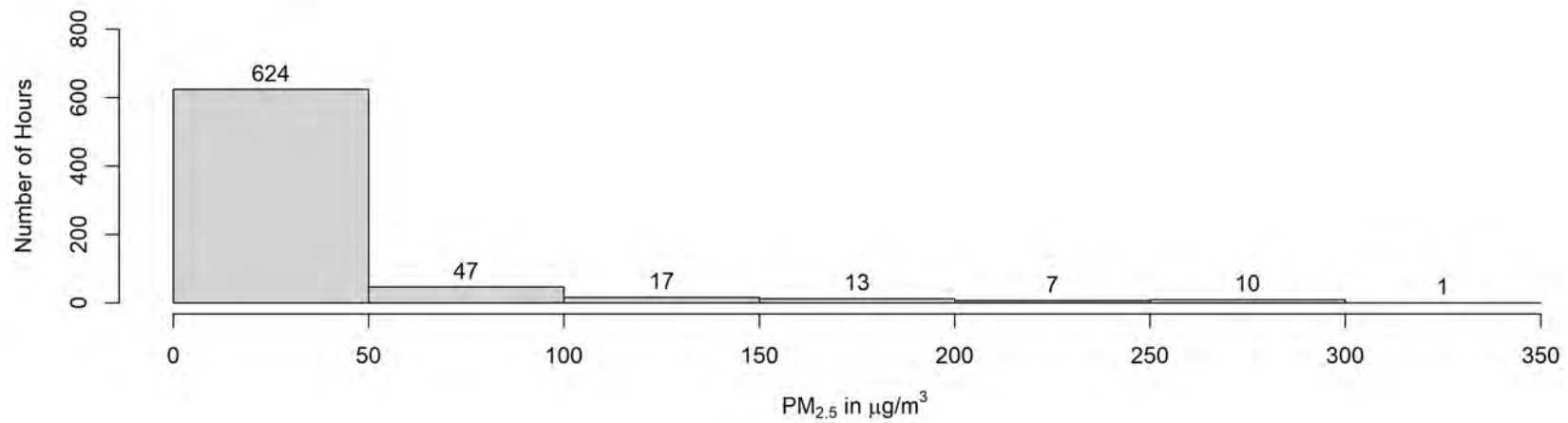
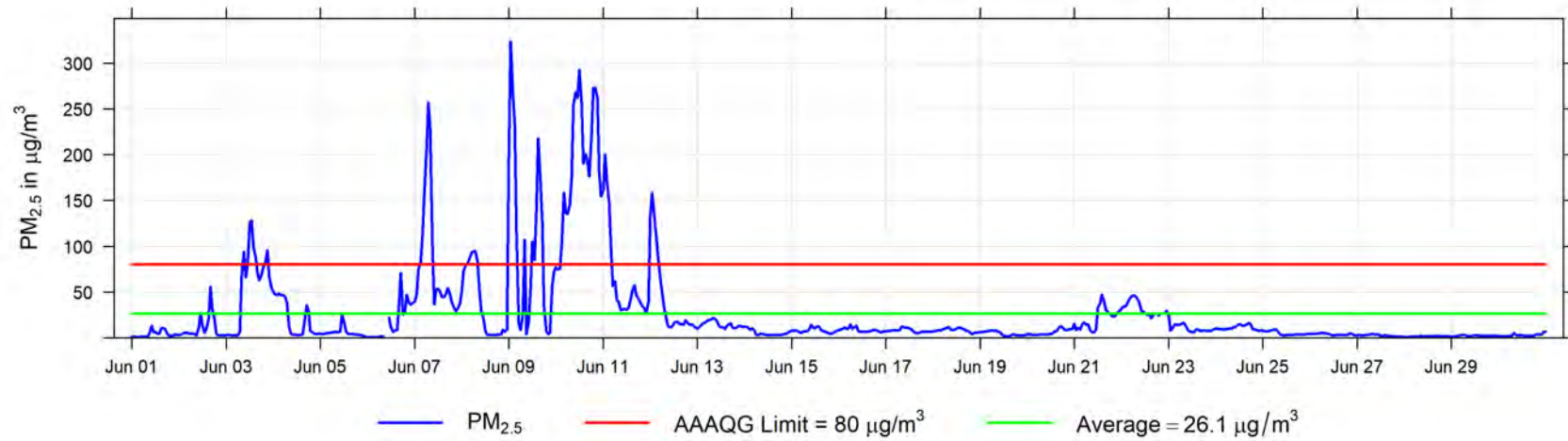
June 2025 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



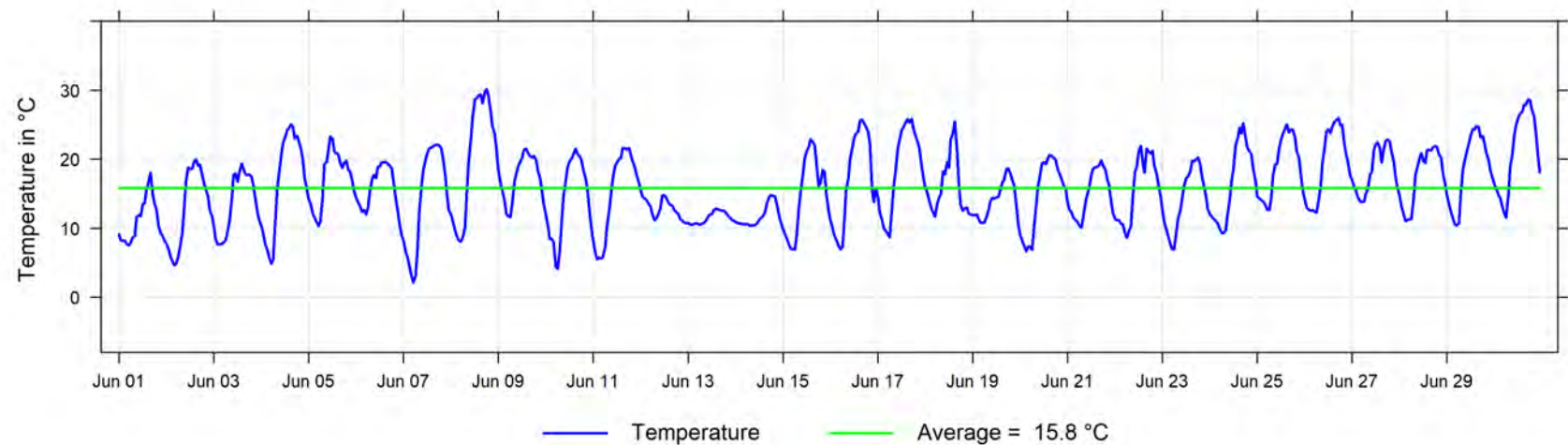
June 2025 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



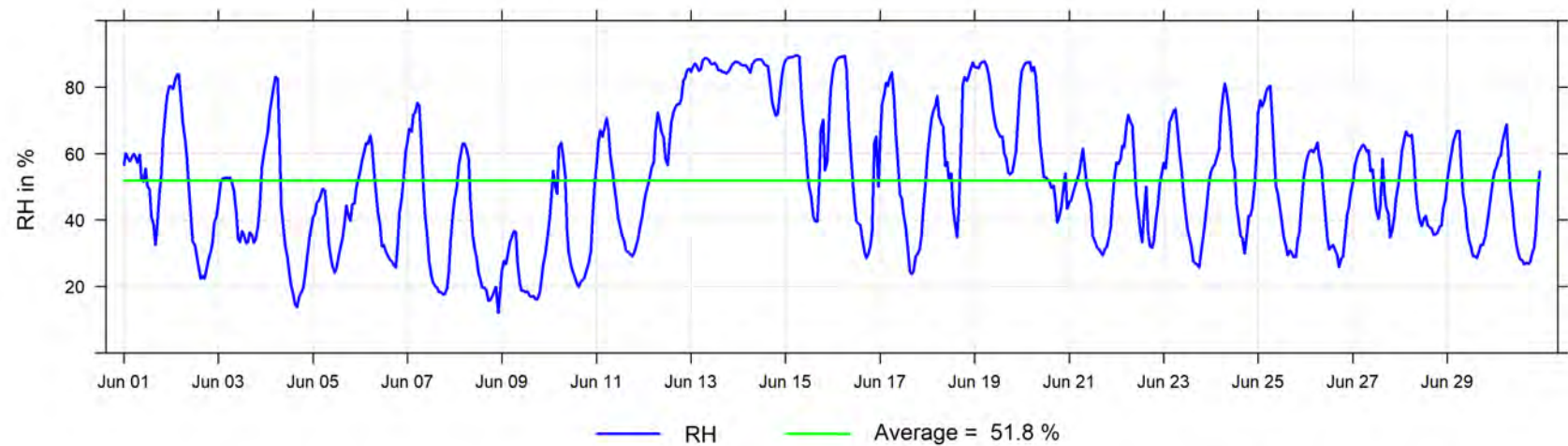
June 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



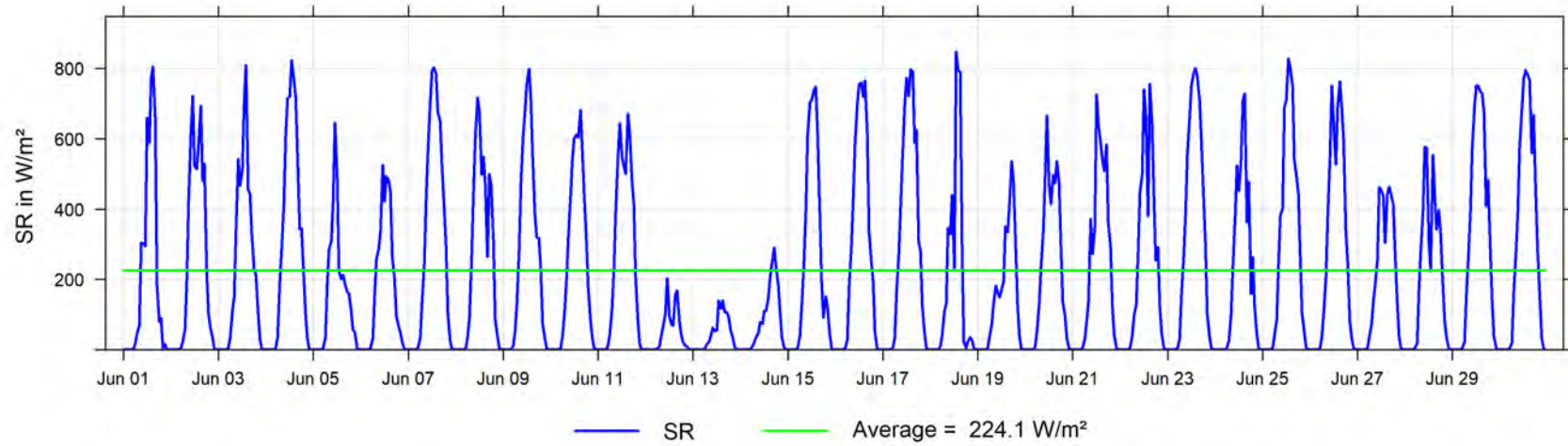
June 2025 Hourly Temperature Readings (in °C) at Henry Pirker



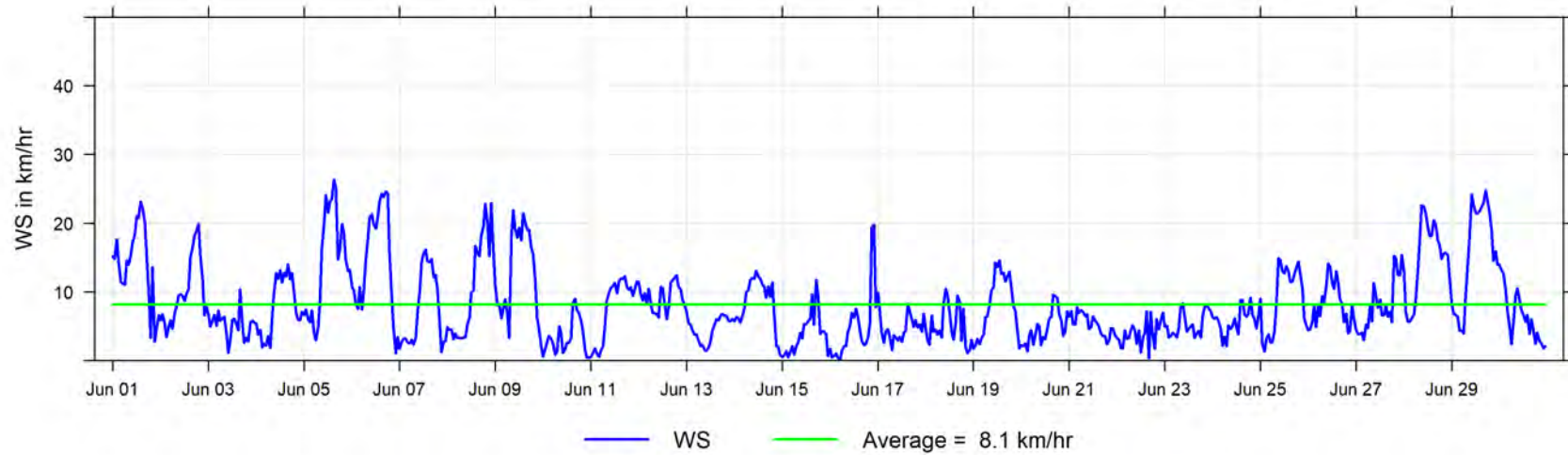
June 2025 Hourly Readings of Relative Humidity (in %) at Henry Pirker



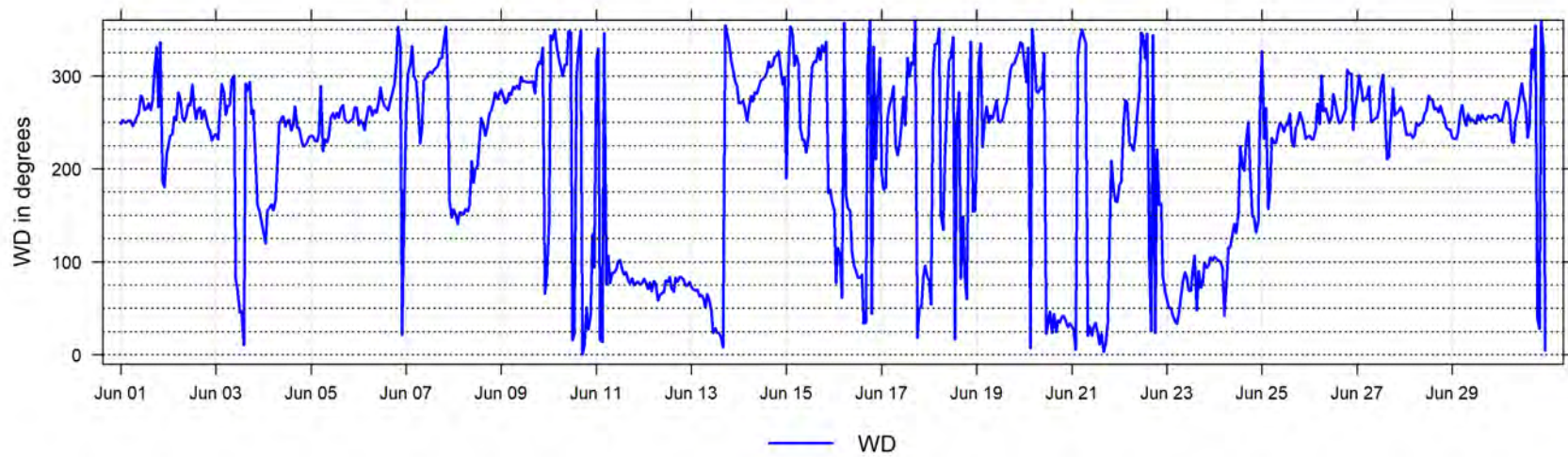
June 2025 Hourly Readings of Solar Radiation (in W/m^2) at Henry Pirker



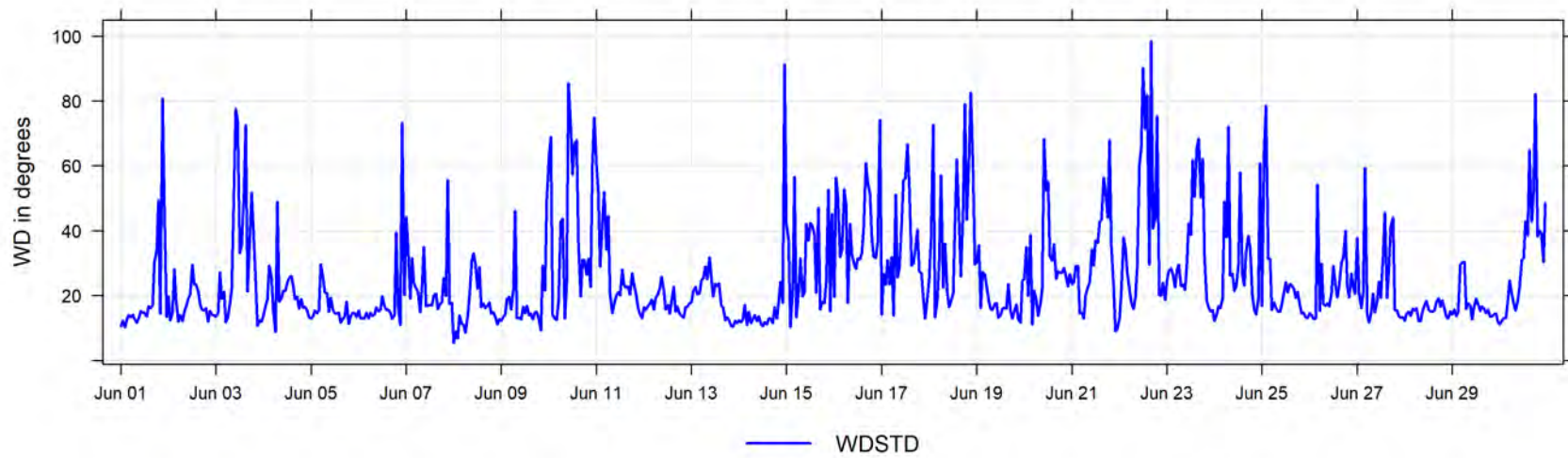
June 2025 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

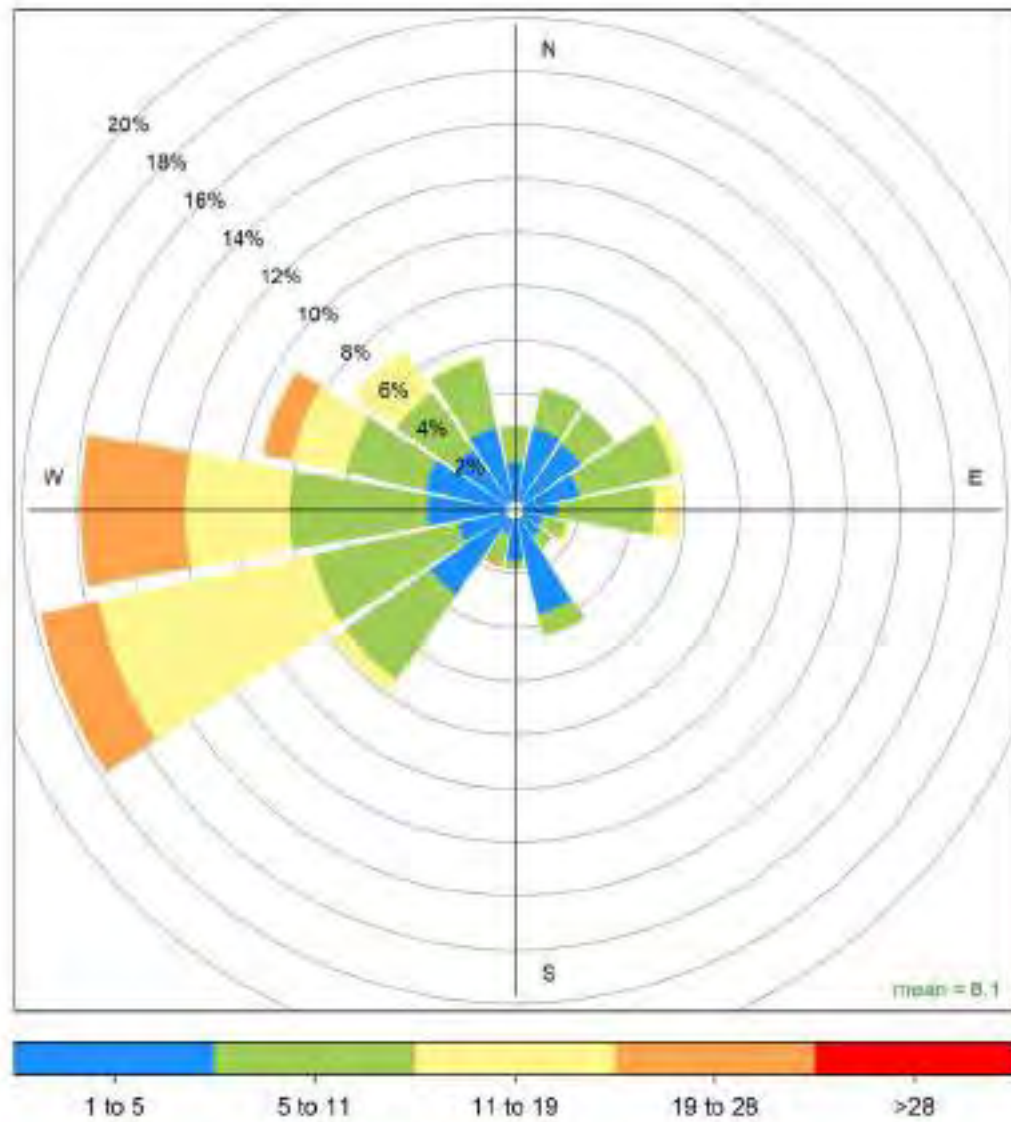


June 2025 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



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



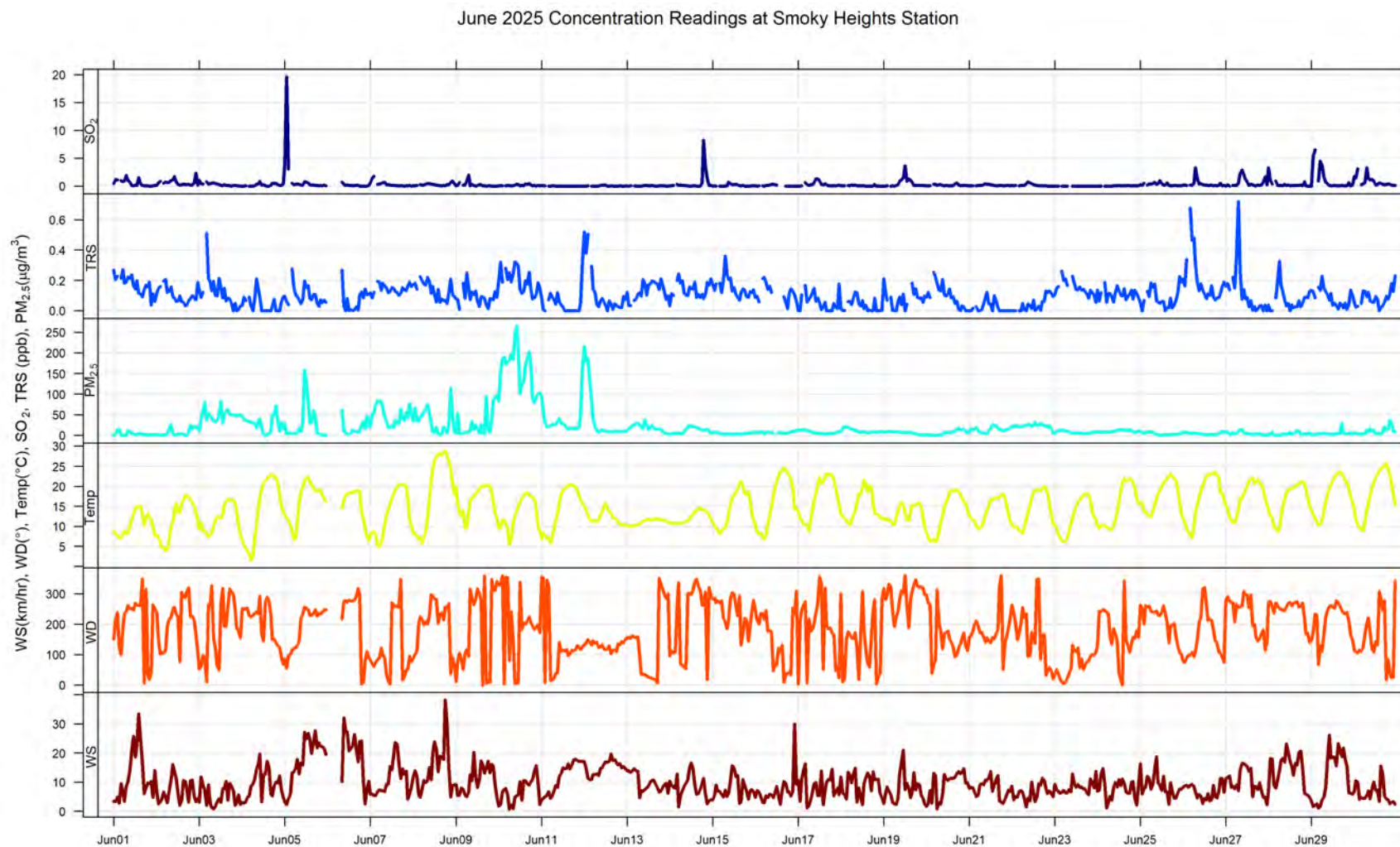


Henry Pirker June 2025 Wind Rose, wind speed in km/hr

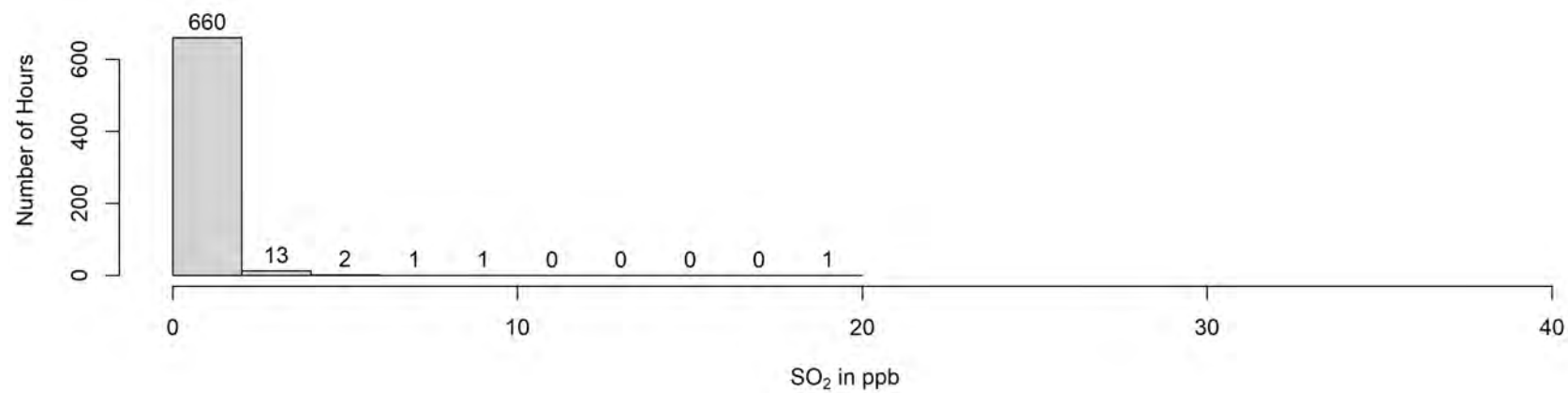
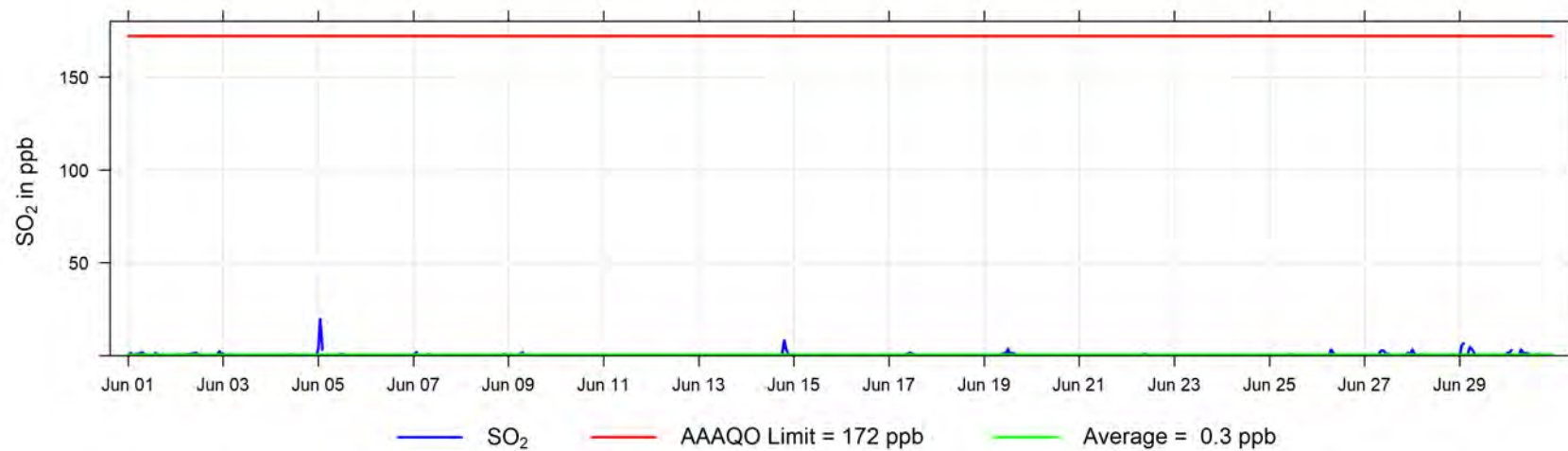
Calms (<1km/hr) = 2.4 %

5 Smoky Heights Charts

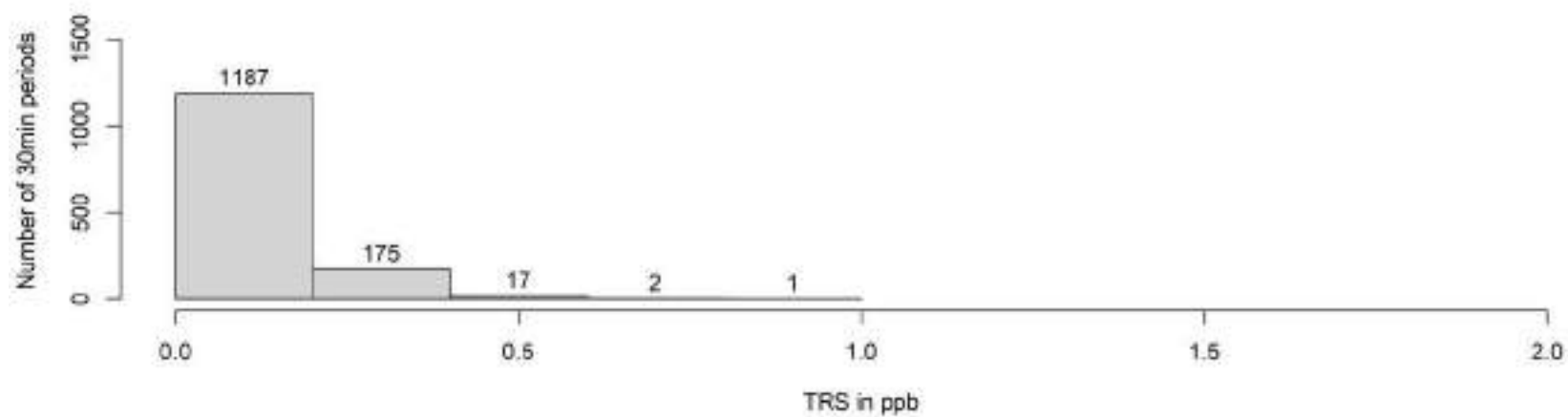
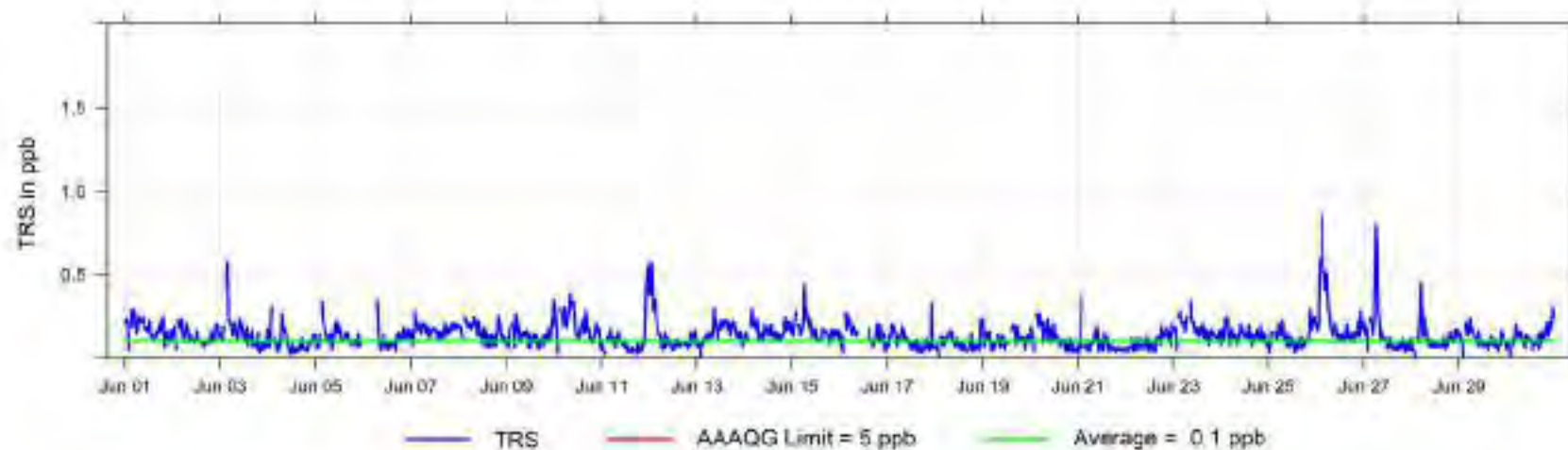
The following pages include the charts and histograms for Smoky Heights Station



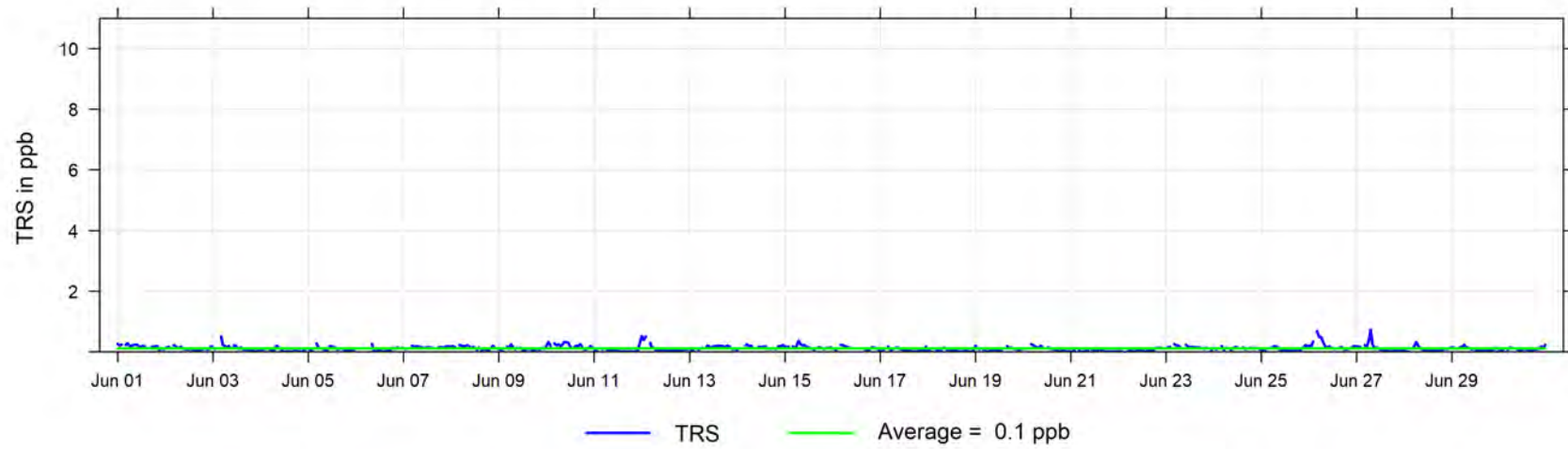
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



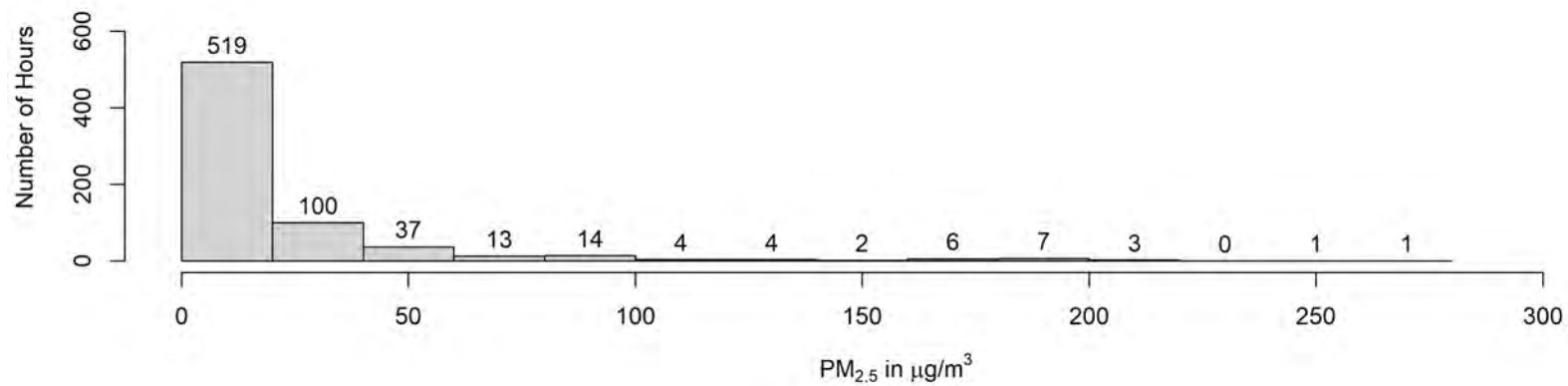
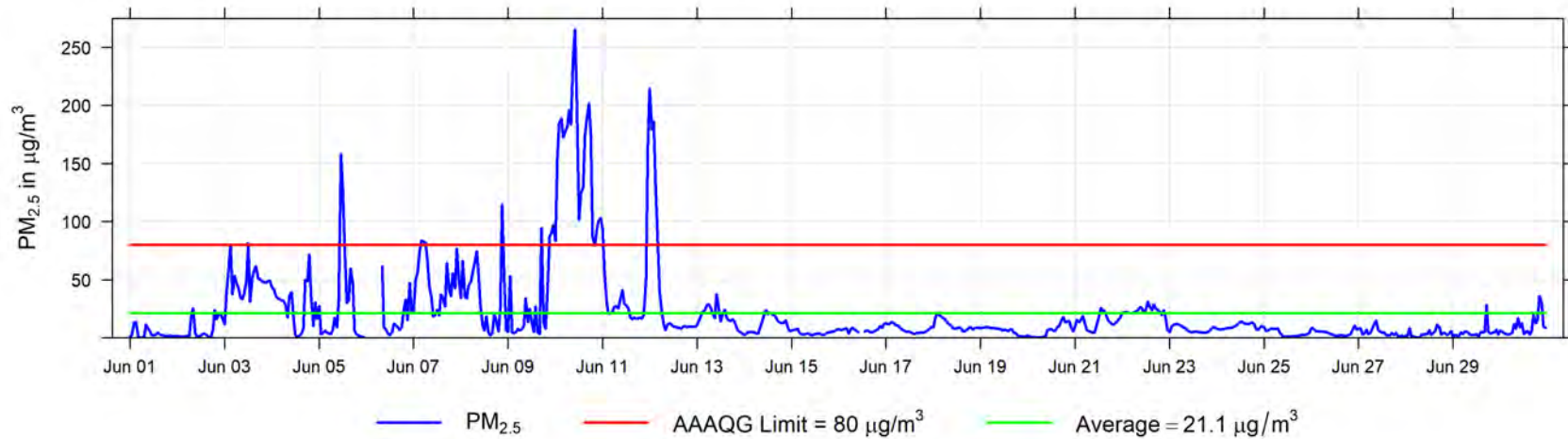
June 2025 30 min Concentration Readings of TRS (in ppb) at Smoky Heights



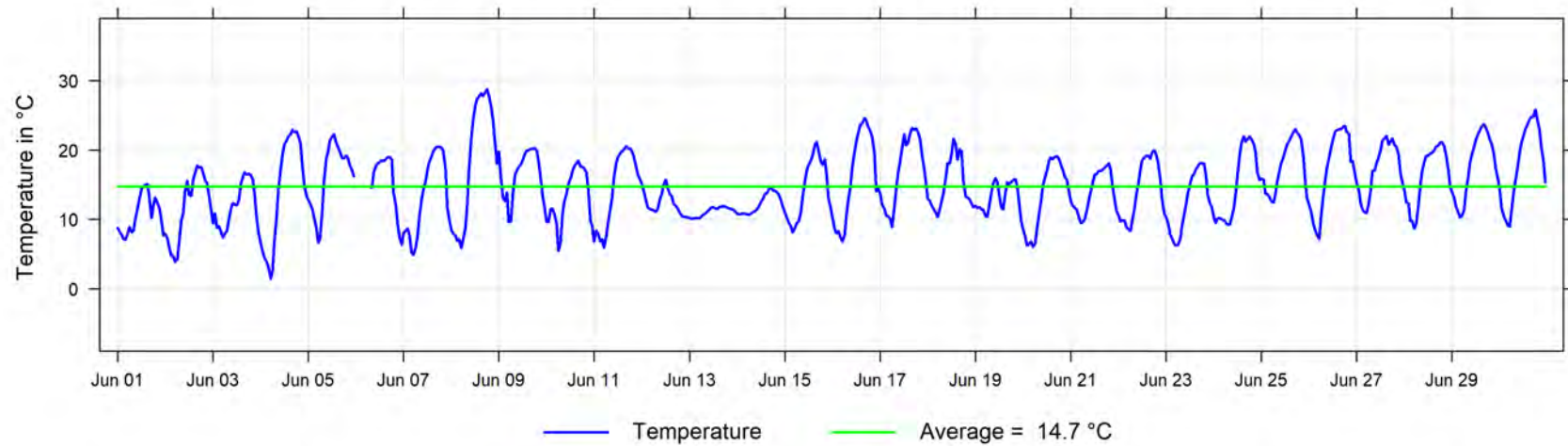
June 2025 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



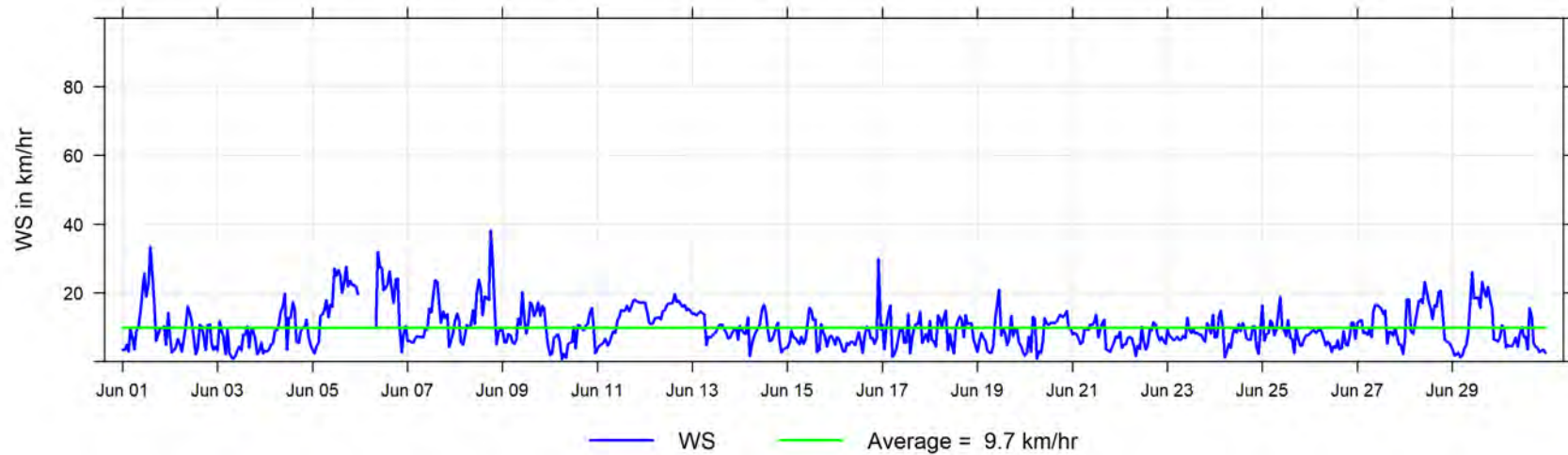
June 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



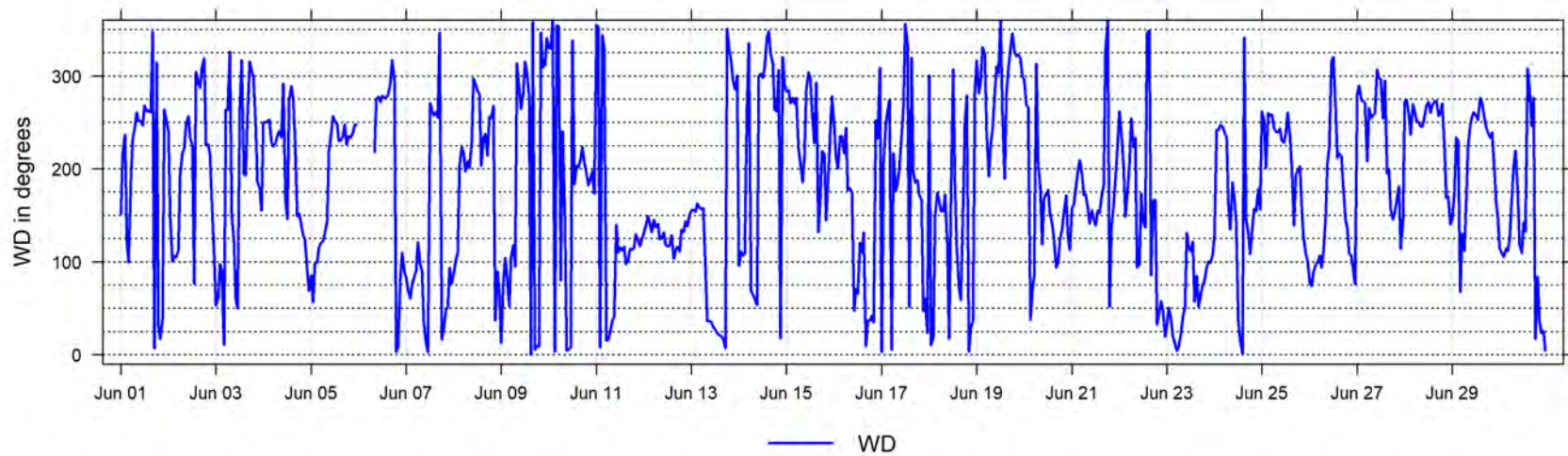
June 2025 Hourly Temperature Readings (in °C) at Smoky Heights



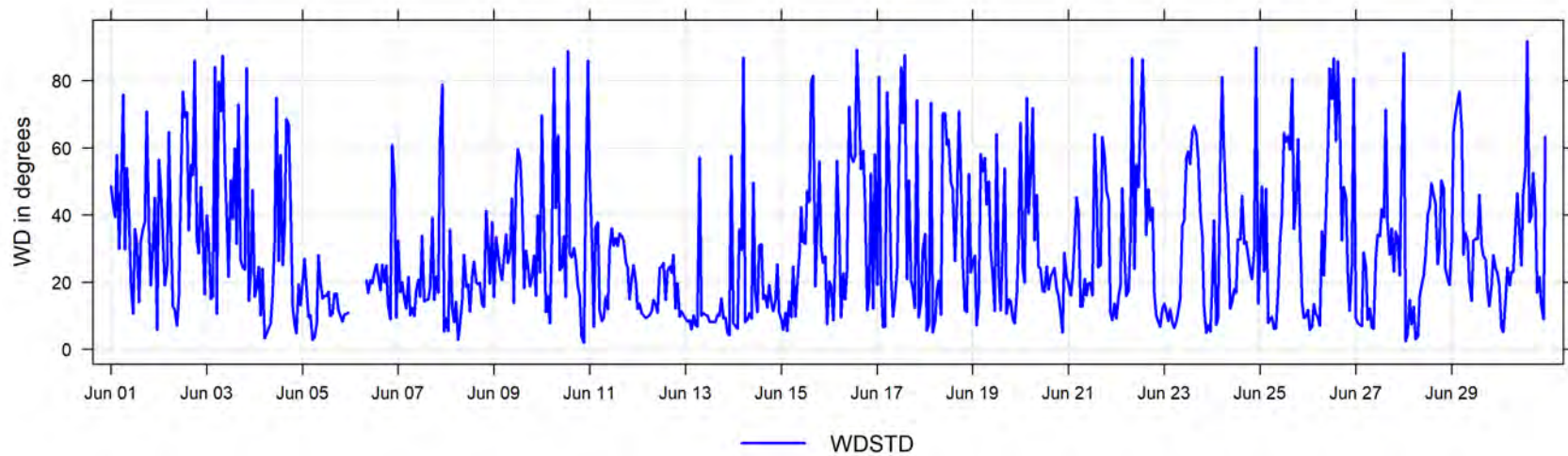
June 2025 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

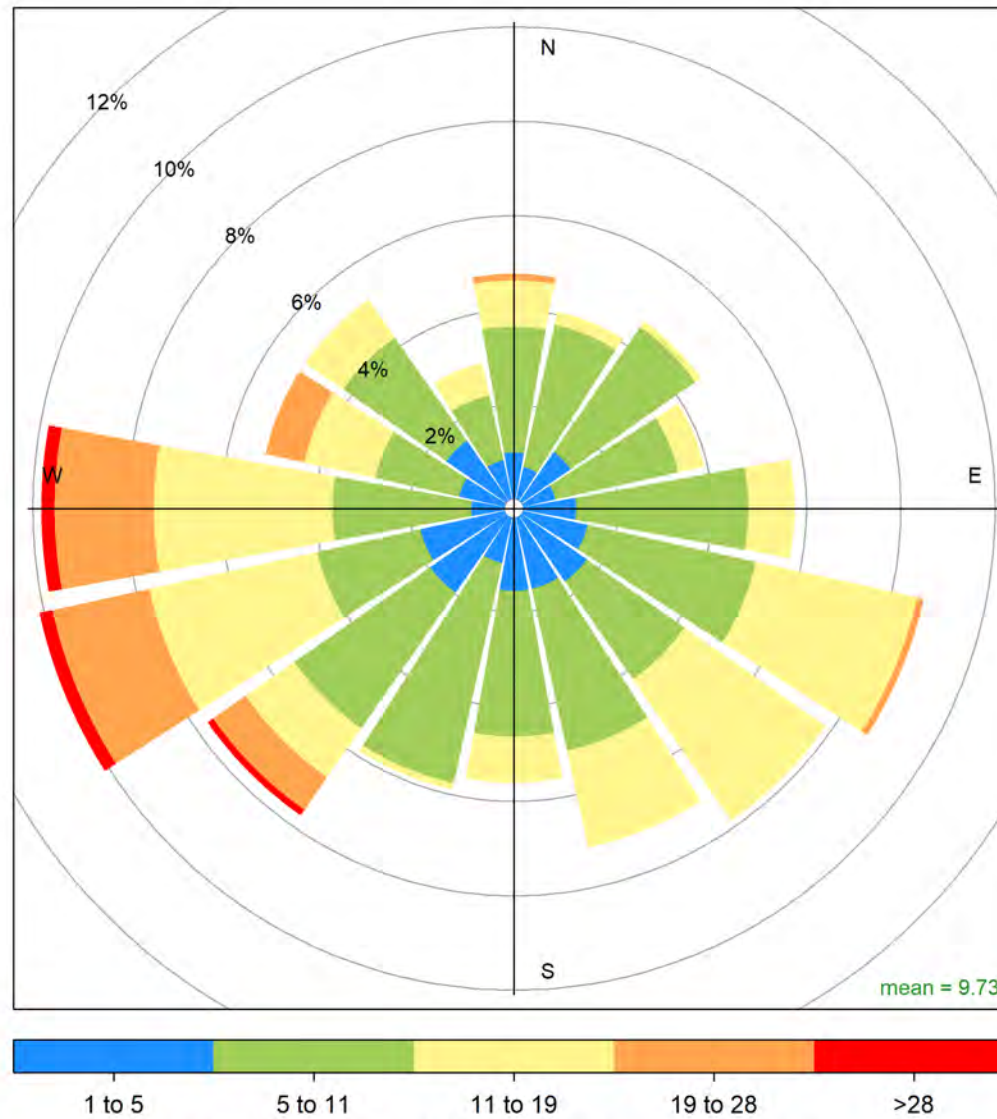


June 2025 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



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

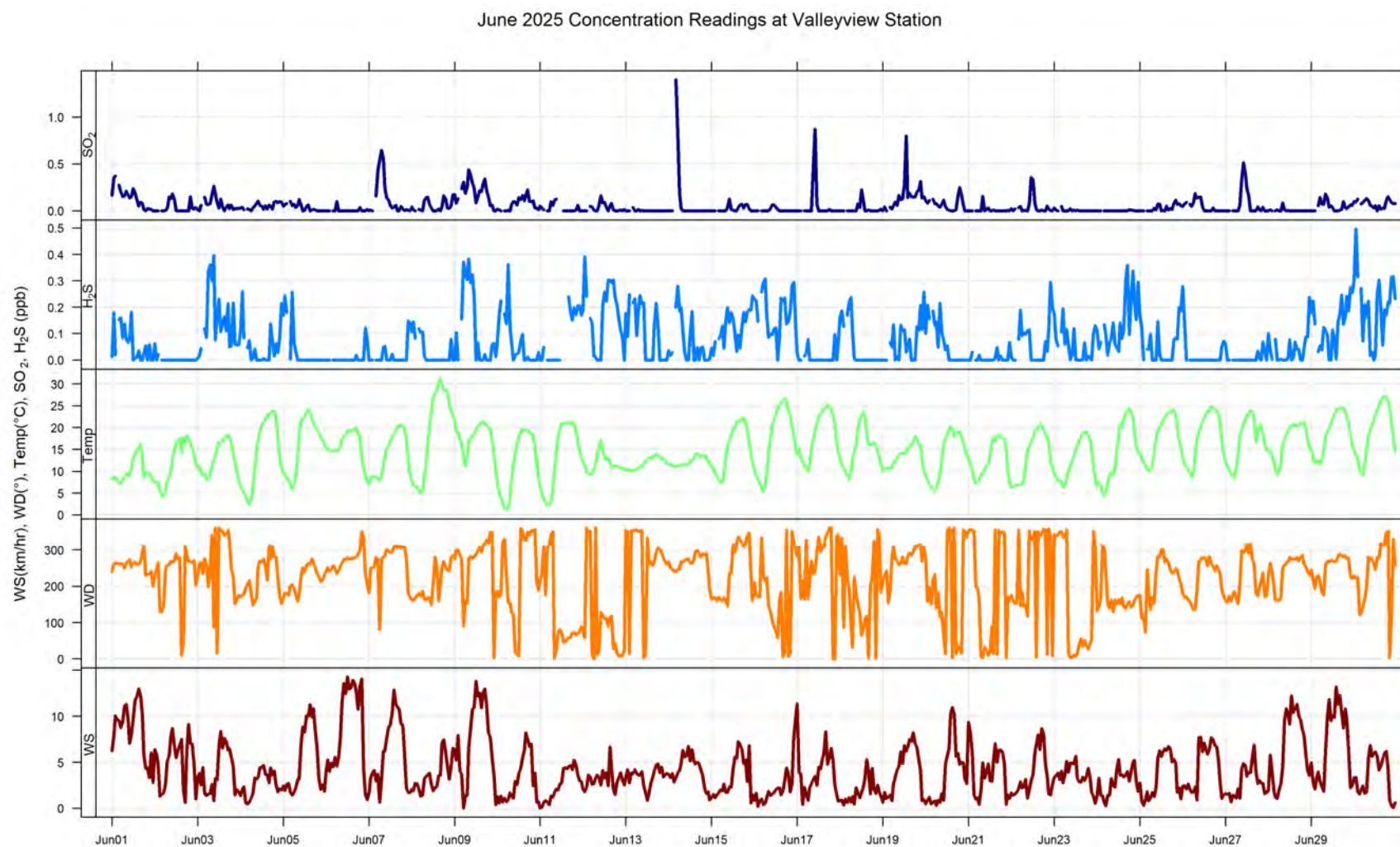




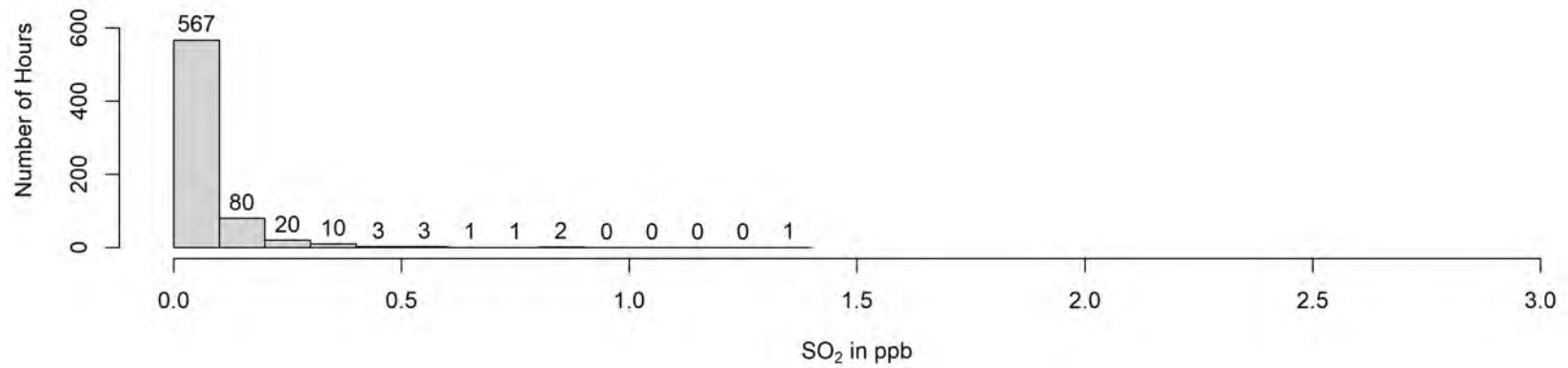
Smoky Heights June 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 0.7 %

6 Valleyview Charts

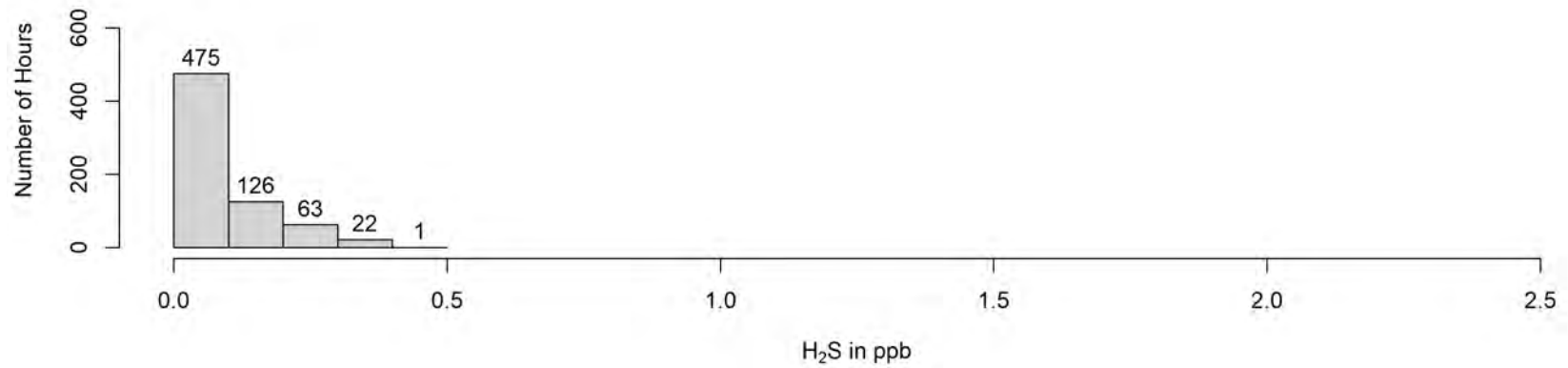
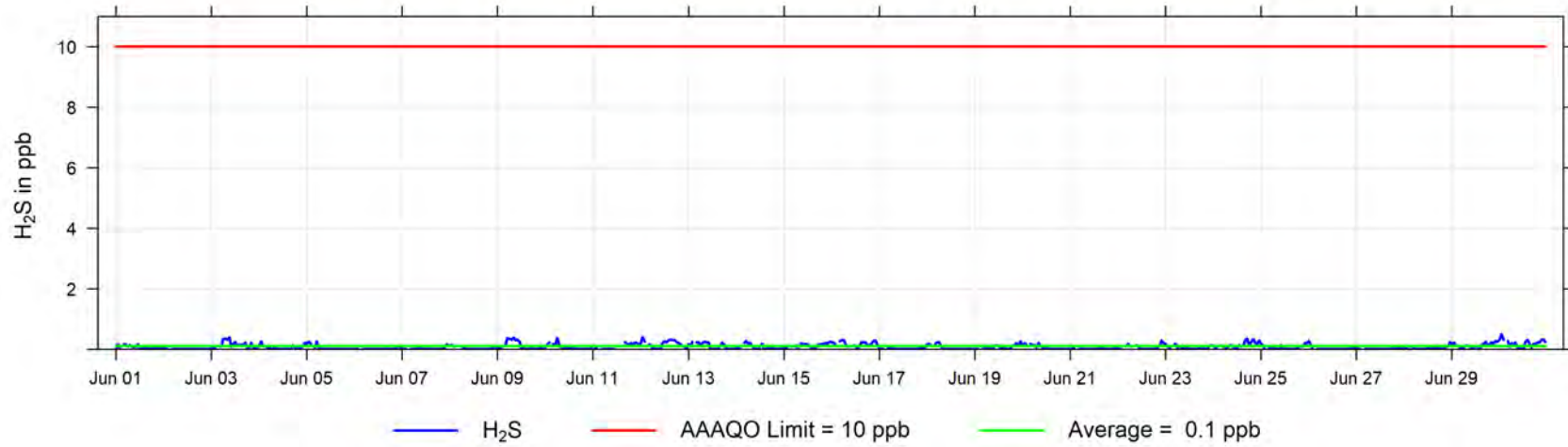
The following pages include the charts and histograms for Valleyview Station



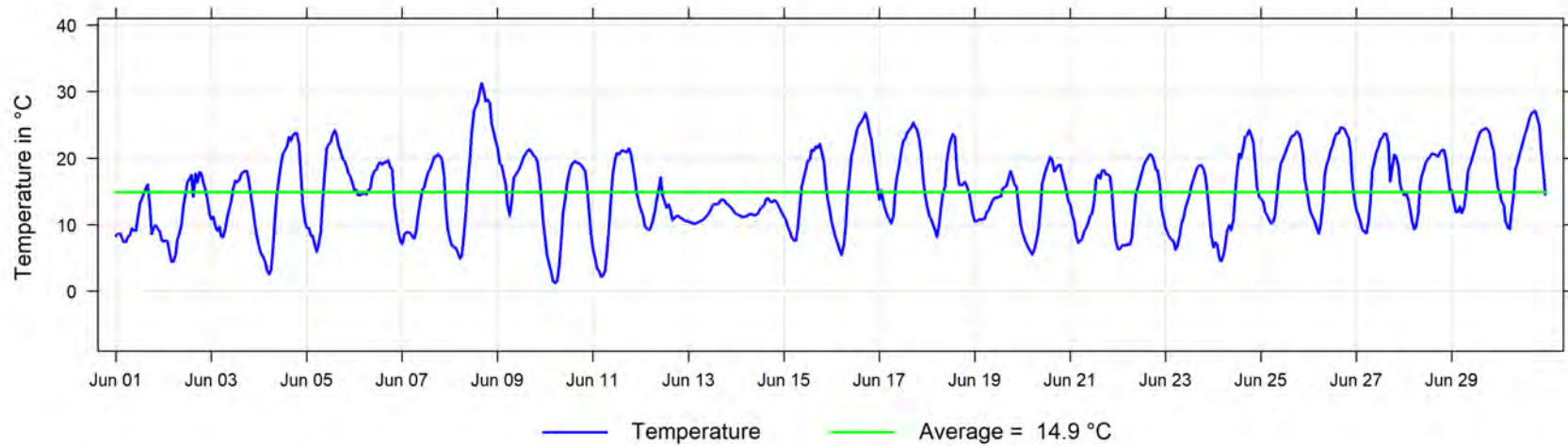
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



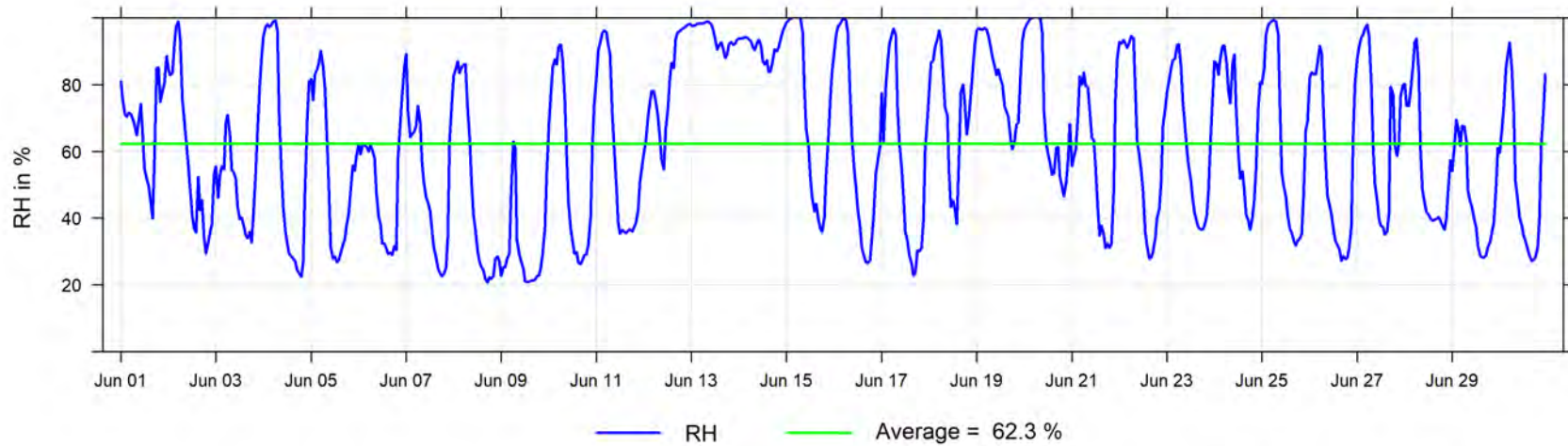
June 2025 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



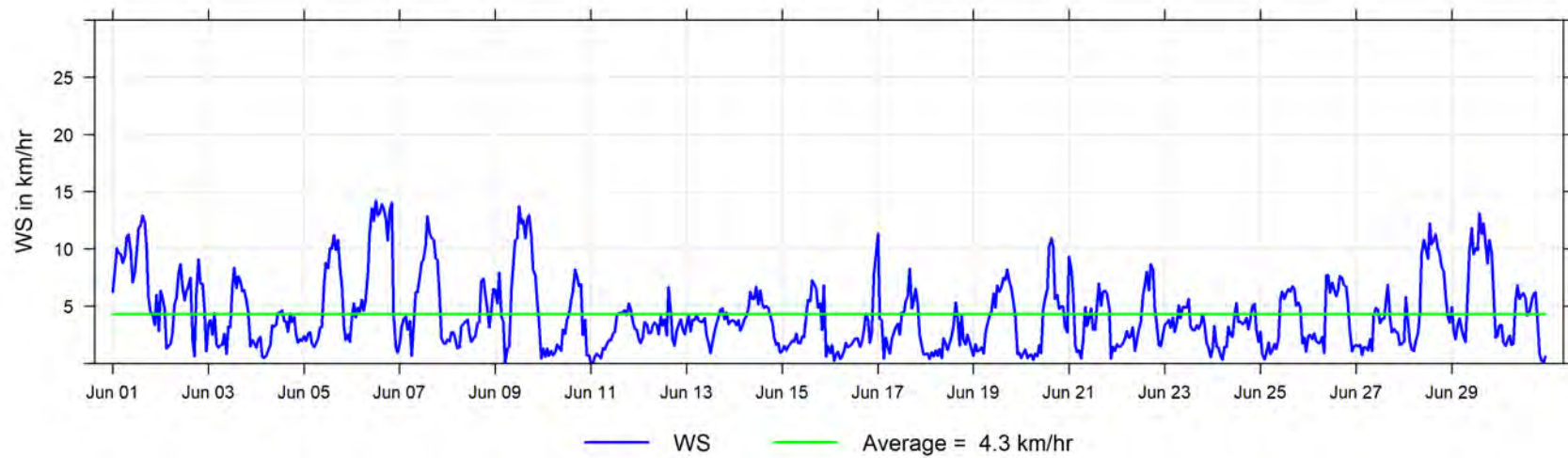
June 2025 Hourly Temperature Readings (in °C) at Valleyview



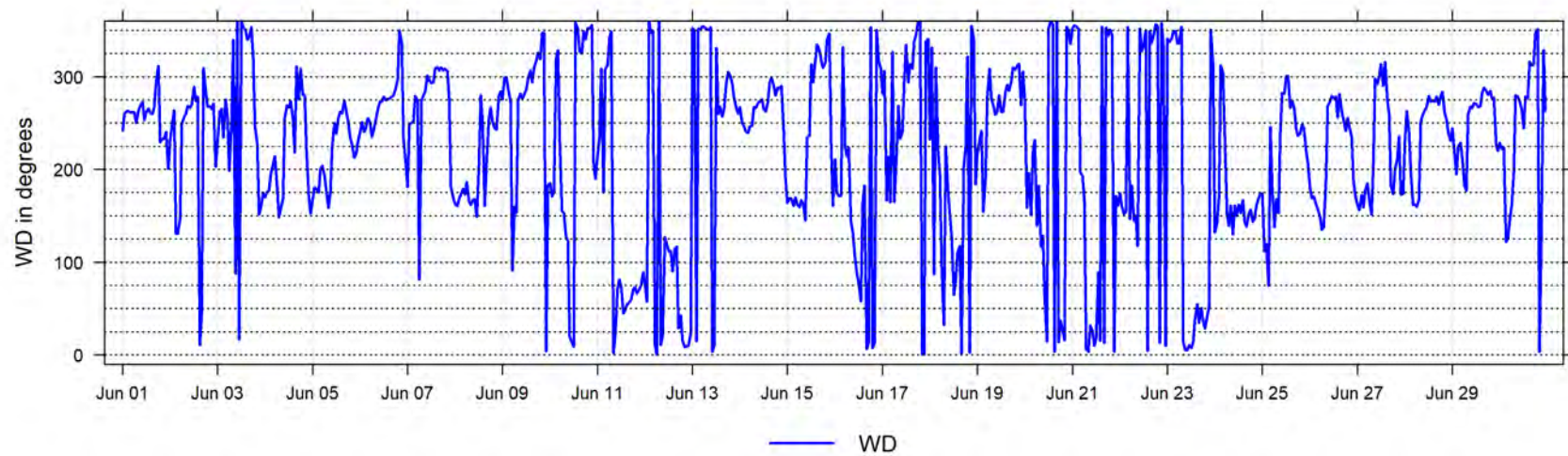
June 2025 Hourly Readings of Relative Humidity (in %) at Valleyview



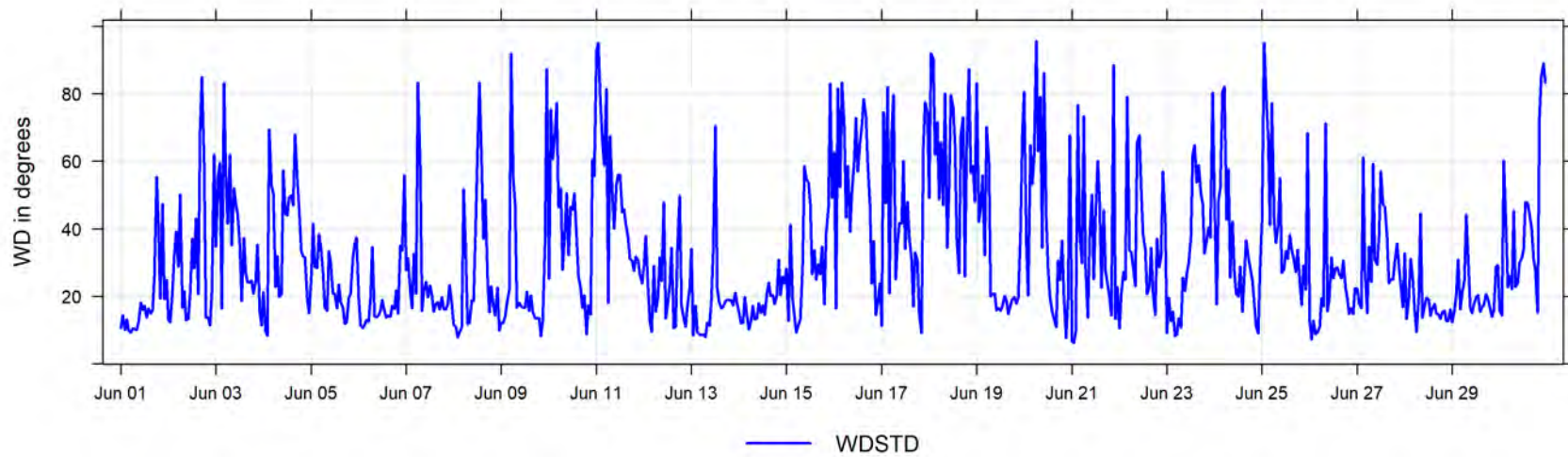
June 2025 Hourly Readings of Wind Speed (in km/hr) at Valleyview

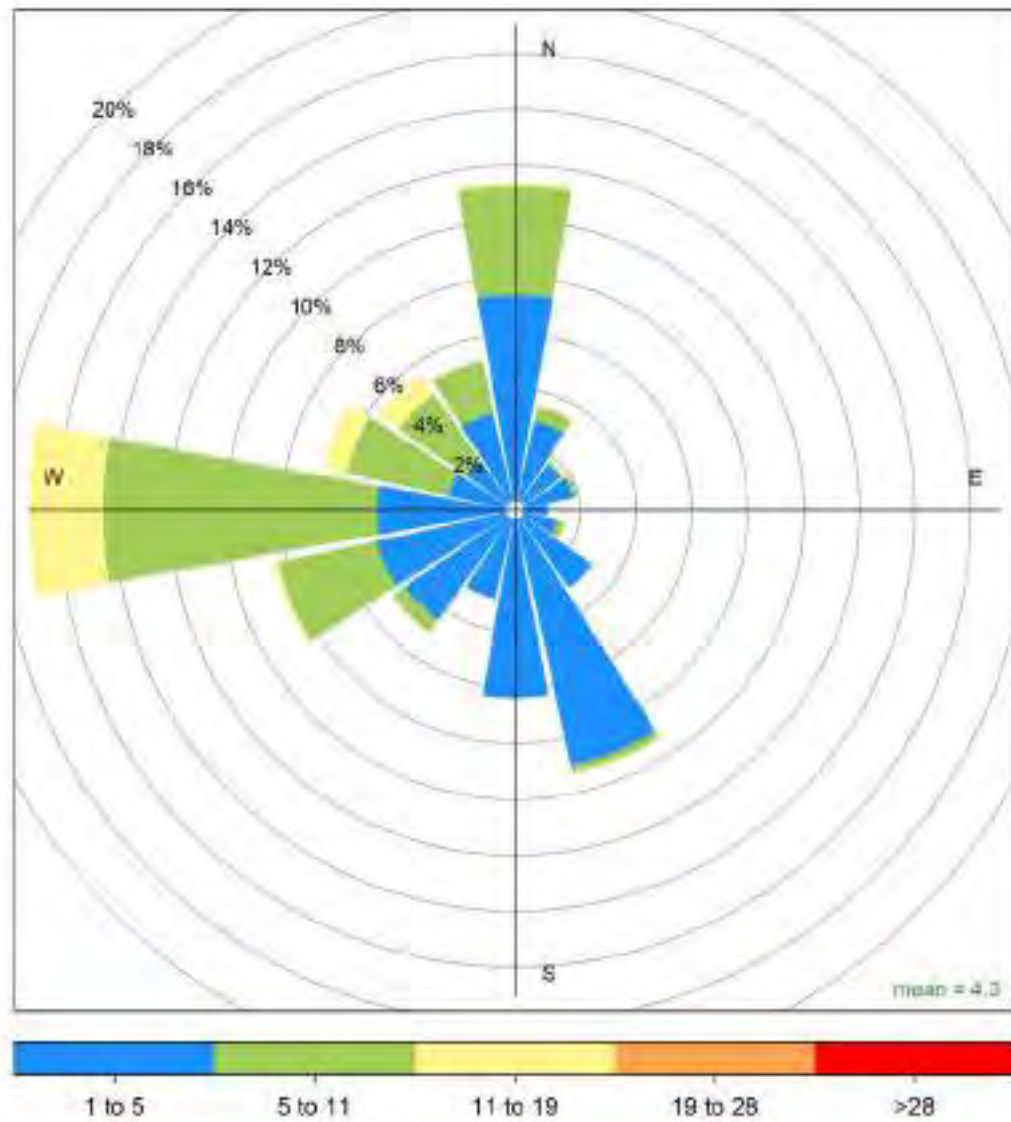


June 2025 Hourly Readings of Wind Direction (in degrees) at Valleyview



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



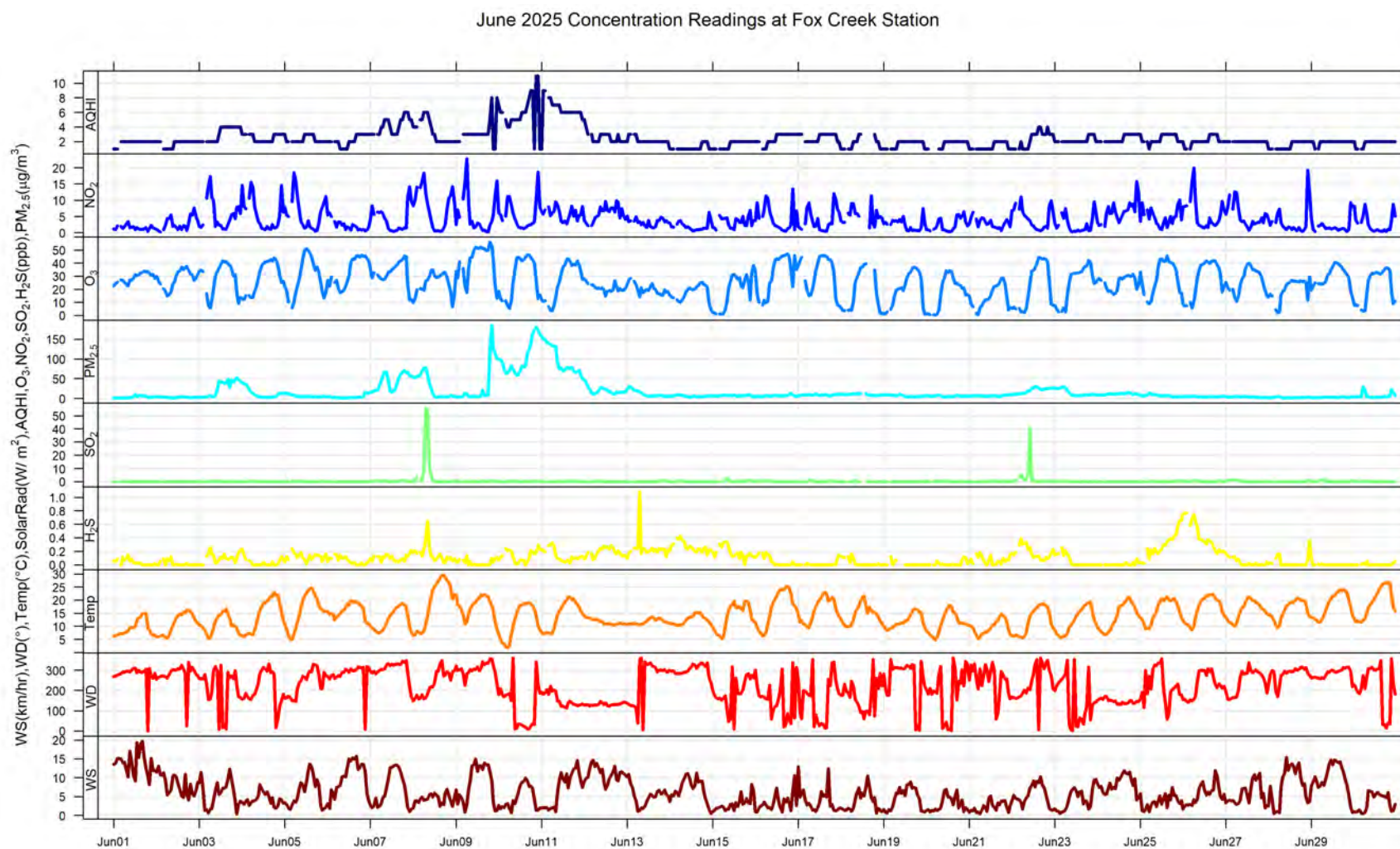


Valleyview June 2025 Wind Rose, wind speed in km/hr

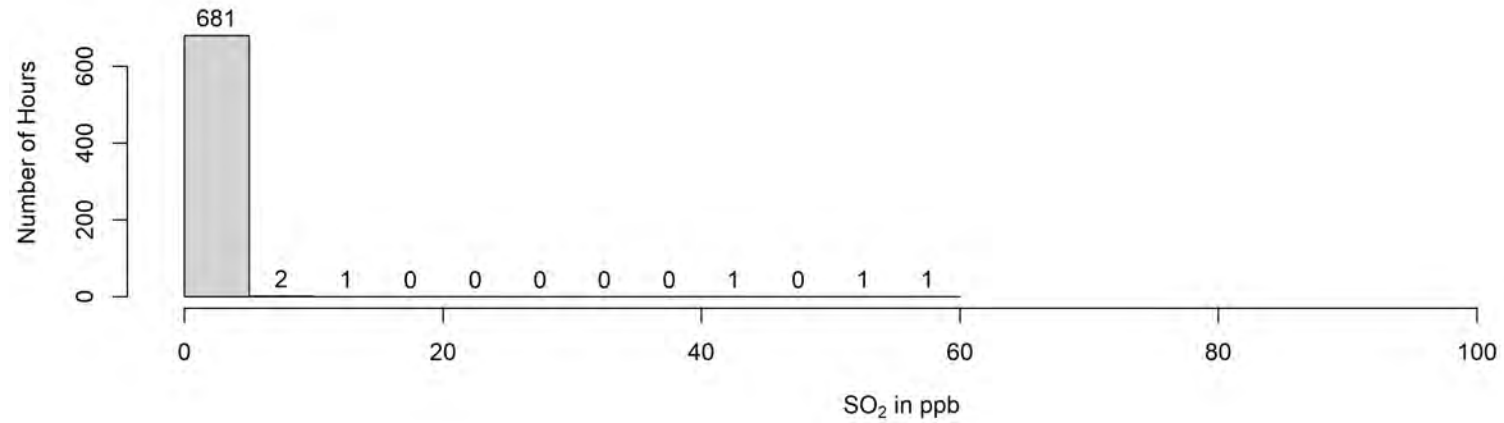
Calms (<1km/hr) = 9.6 %

7 Fox Creek Charts

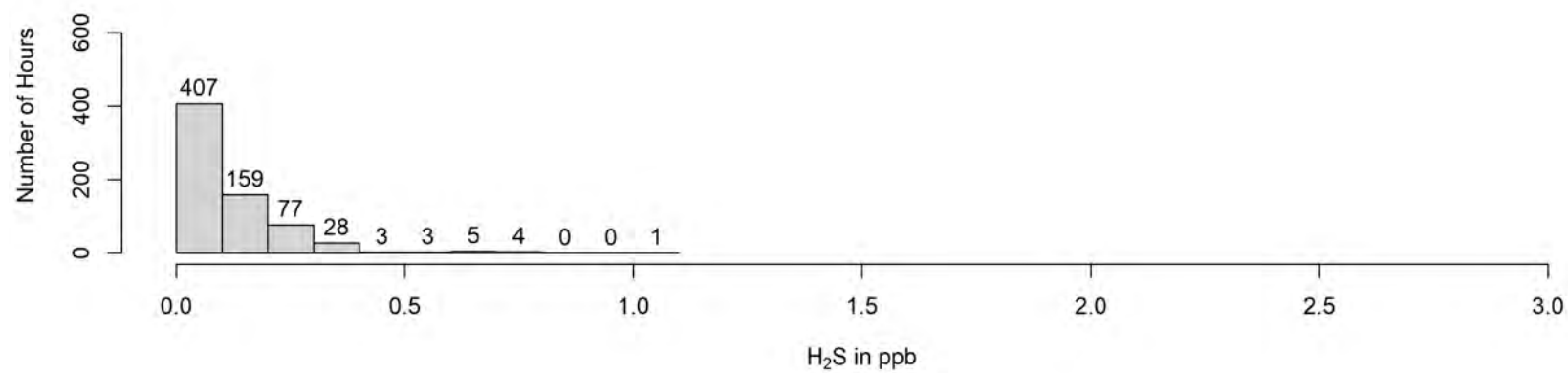
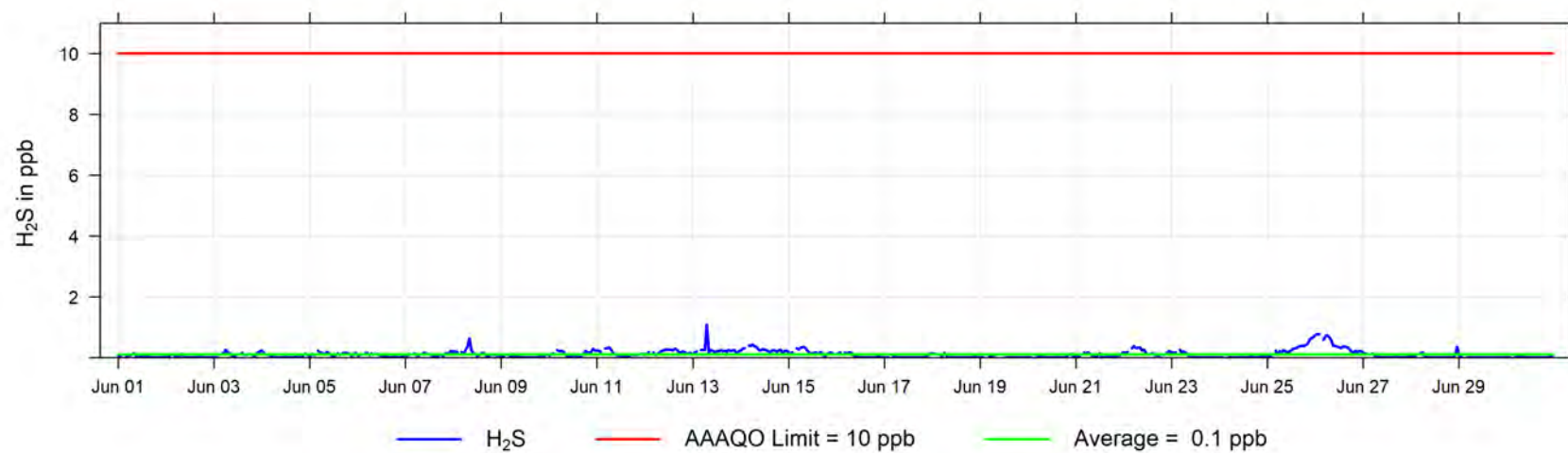
The following pages include the charts and histograms for Fox Creek Station



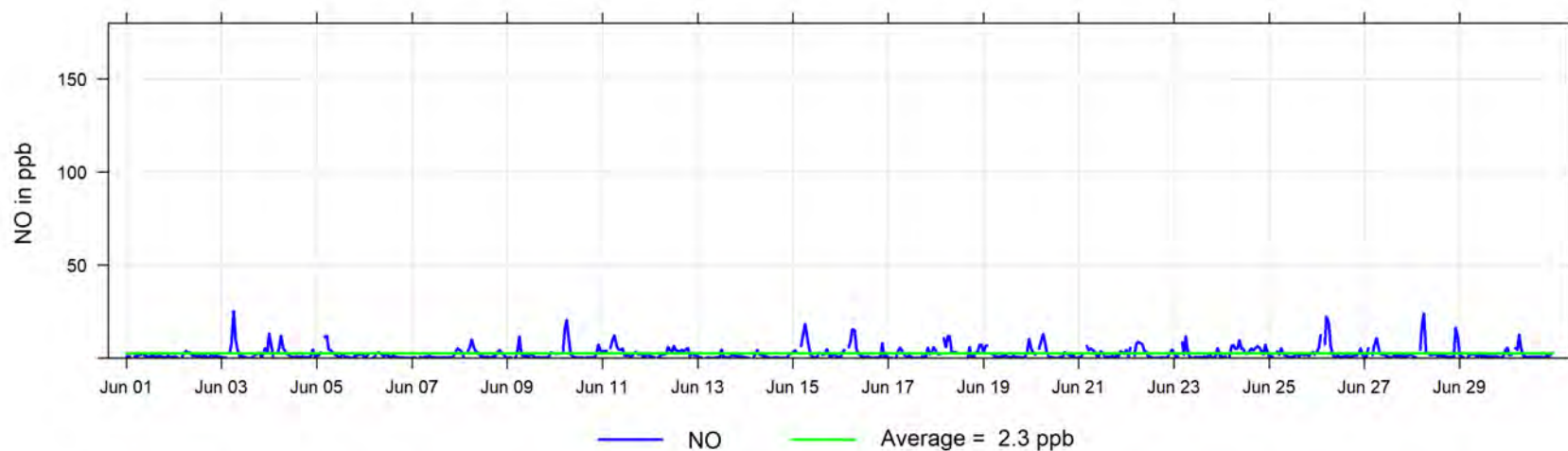
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



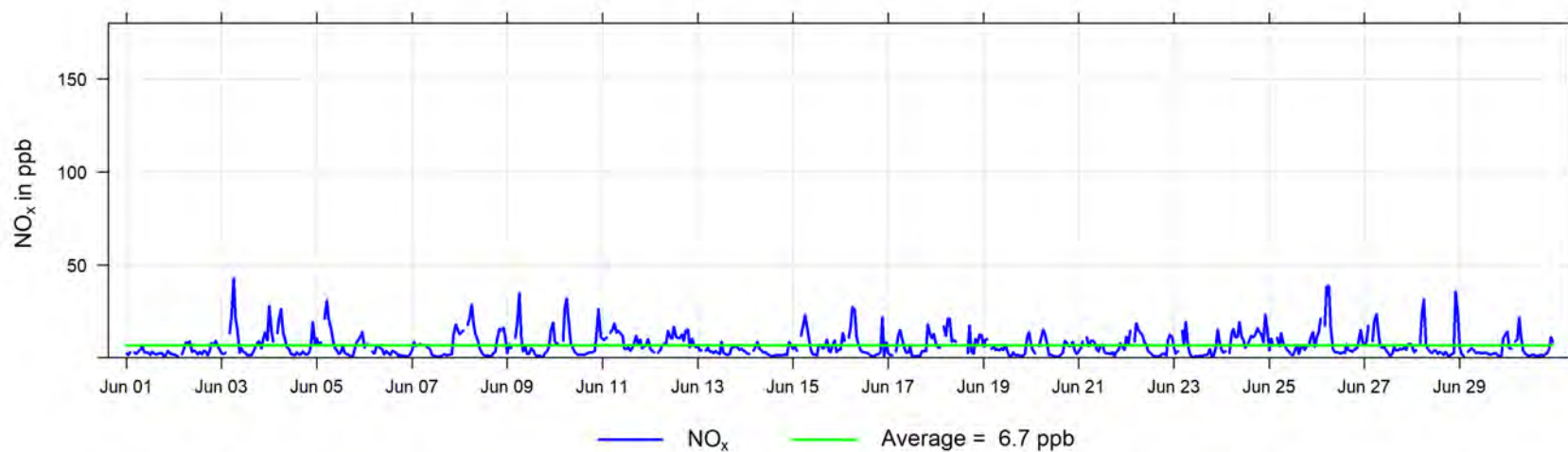
June 2025 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



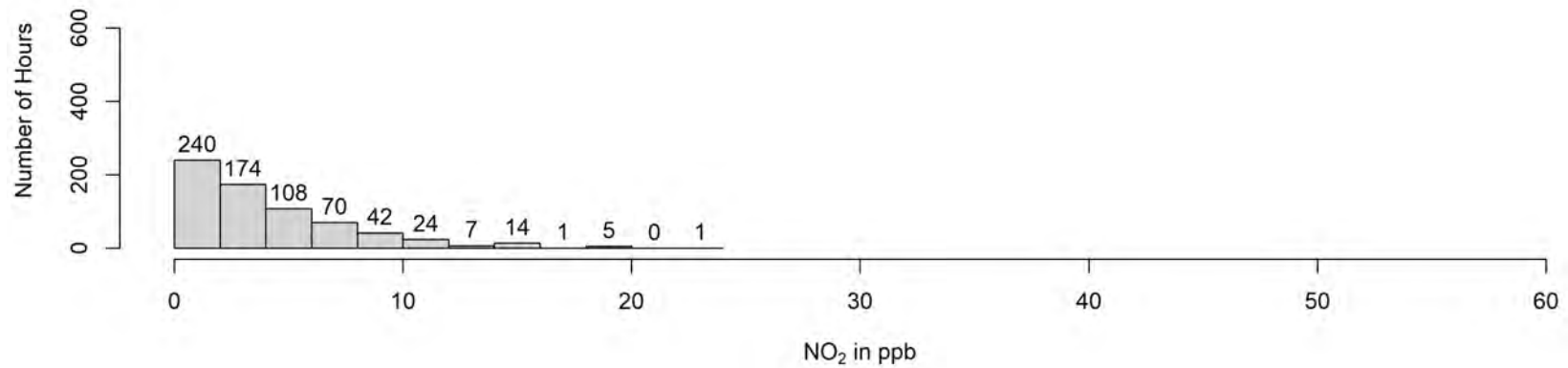
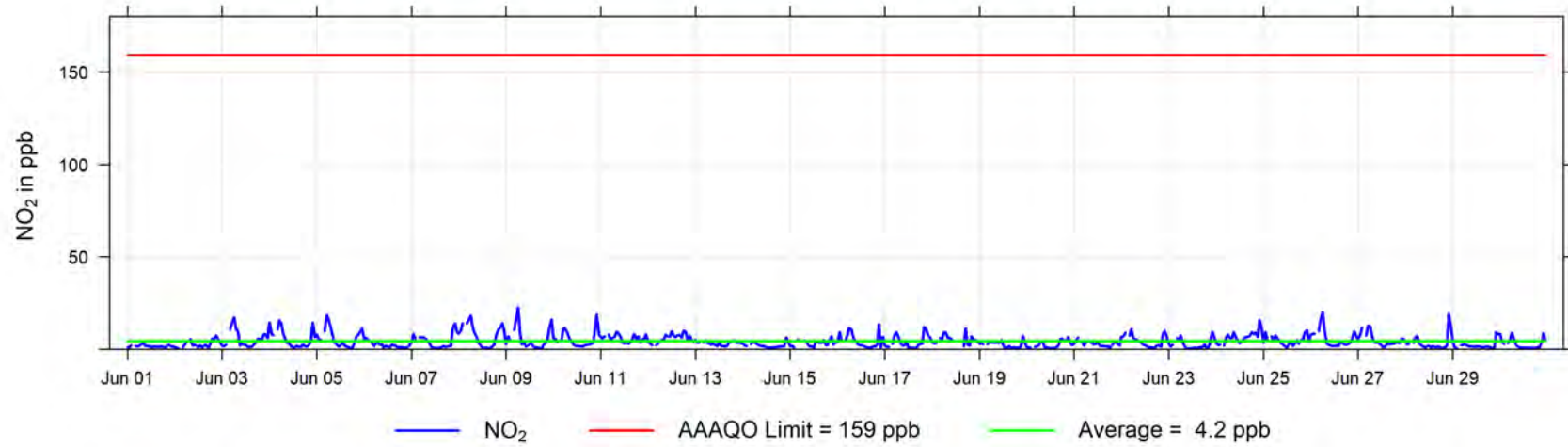
June 2025 Hourly Concentration Readings of NO (in ppb) at Fox Creek



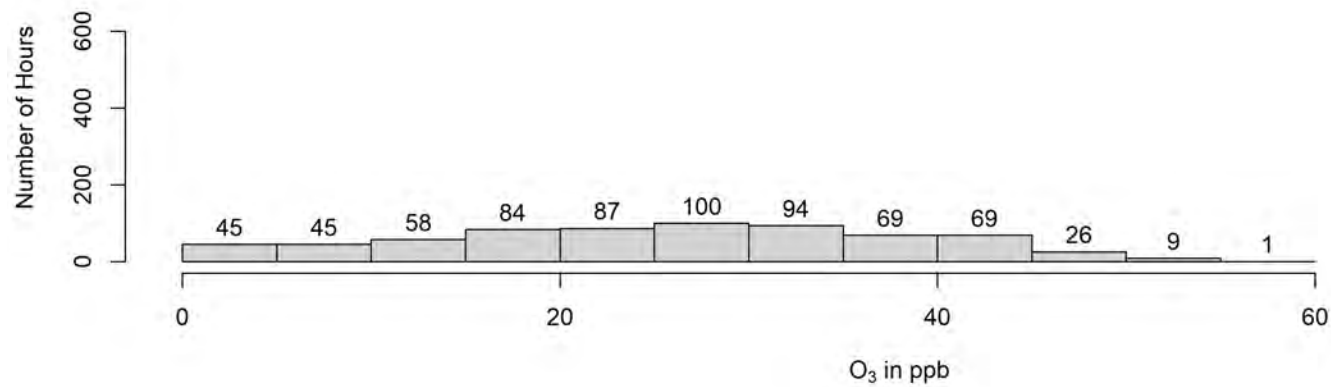
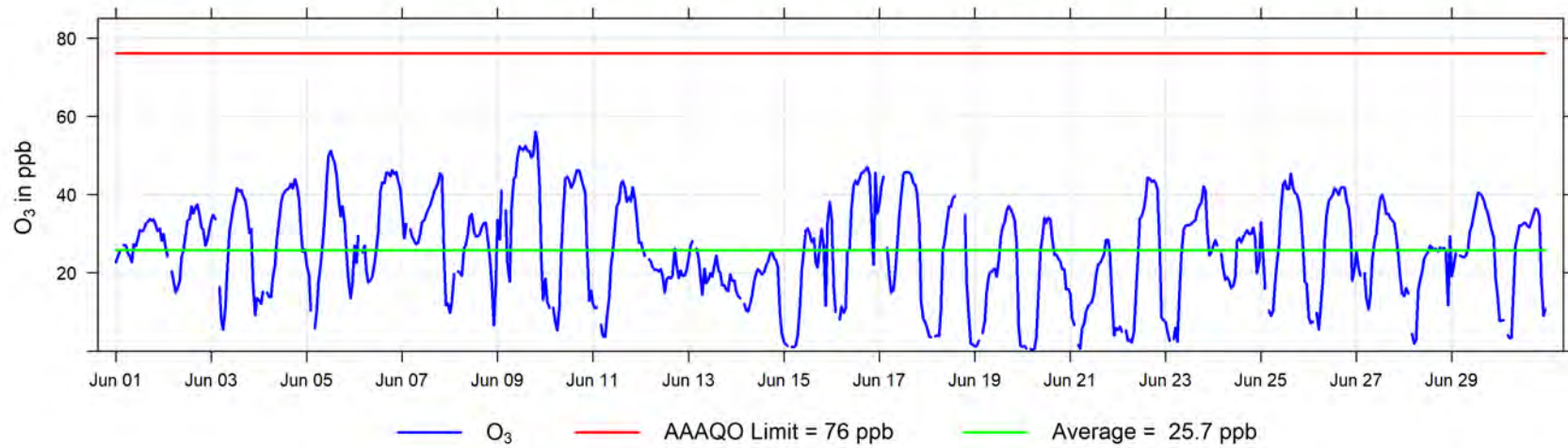
June 2025 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



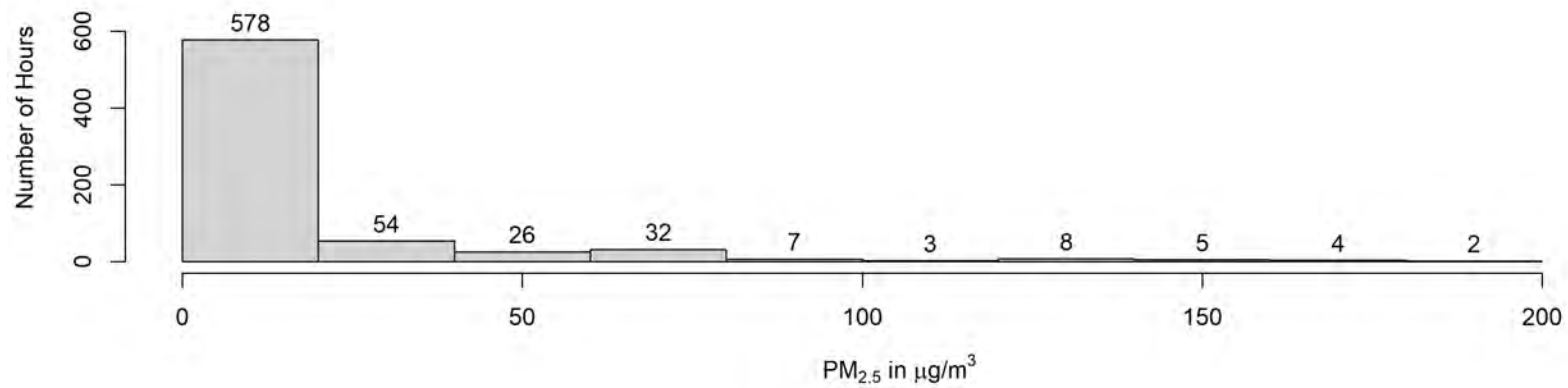
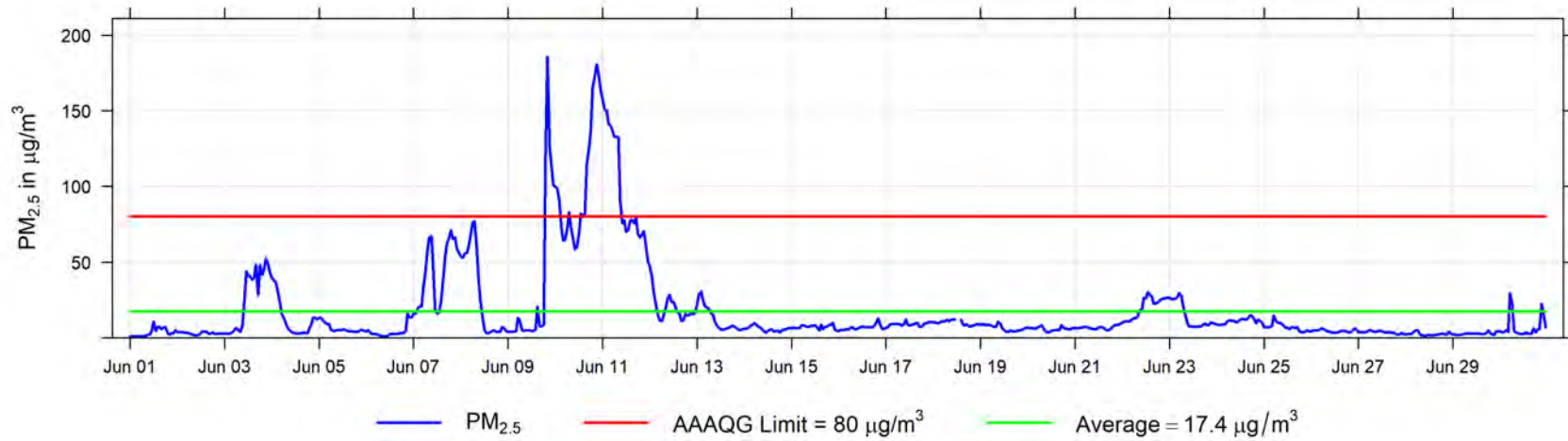
June 2025 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



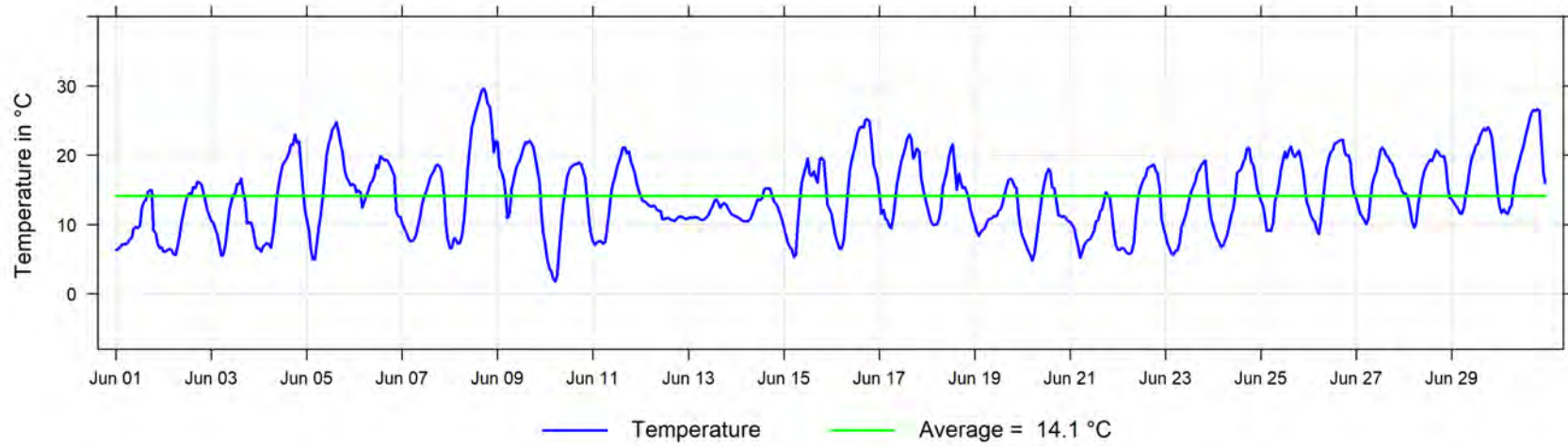
June 2025 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



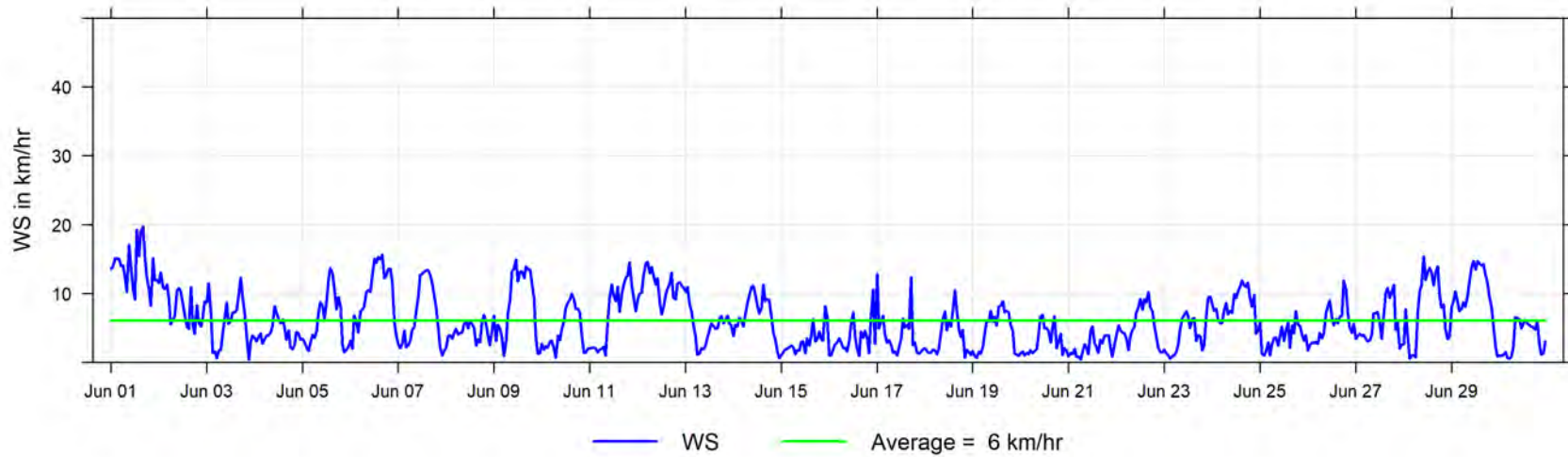
June 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



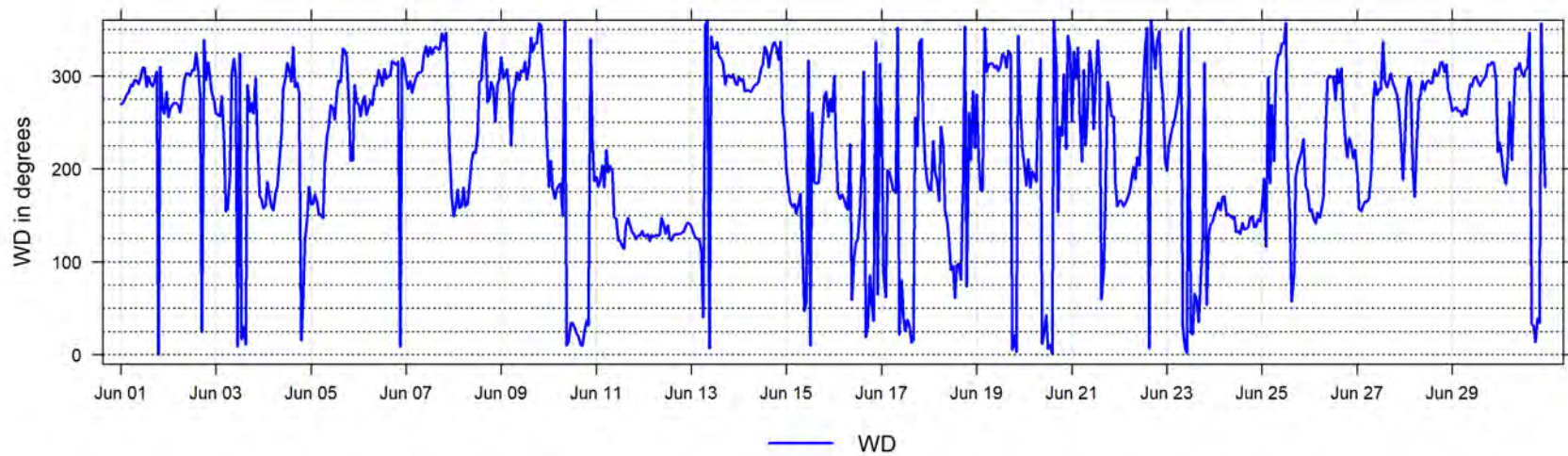
June 2025 Hourly Temperature Readings (in °C) at Fox Creek



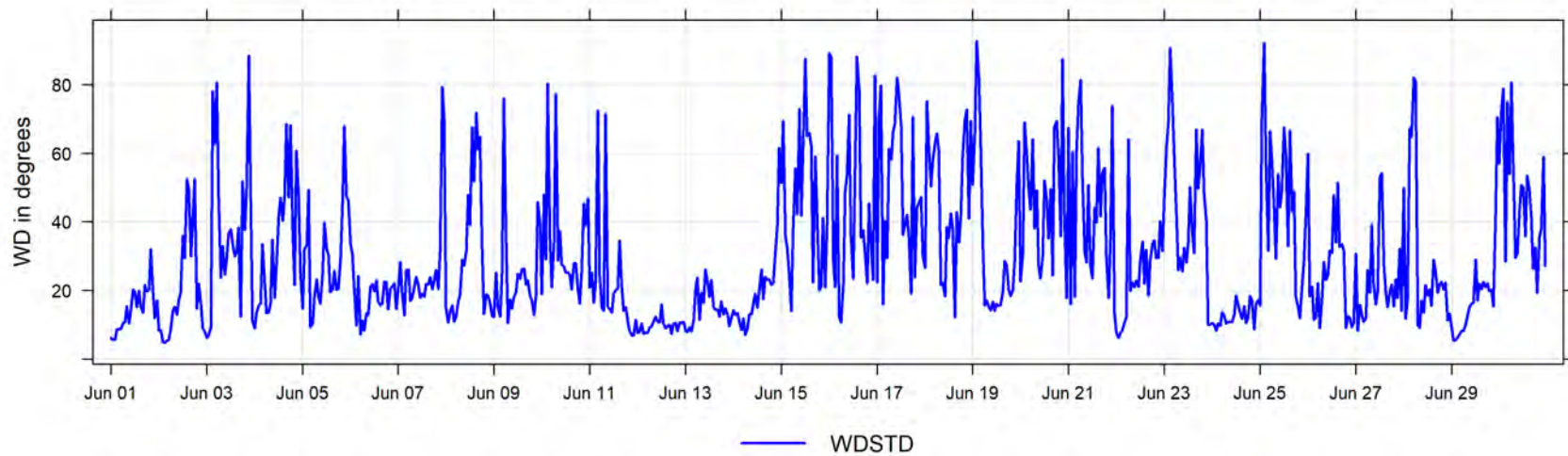
June 2025 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

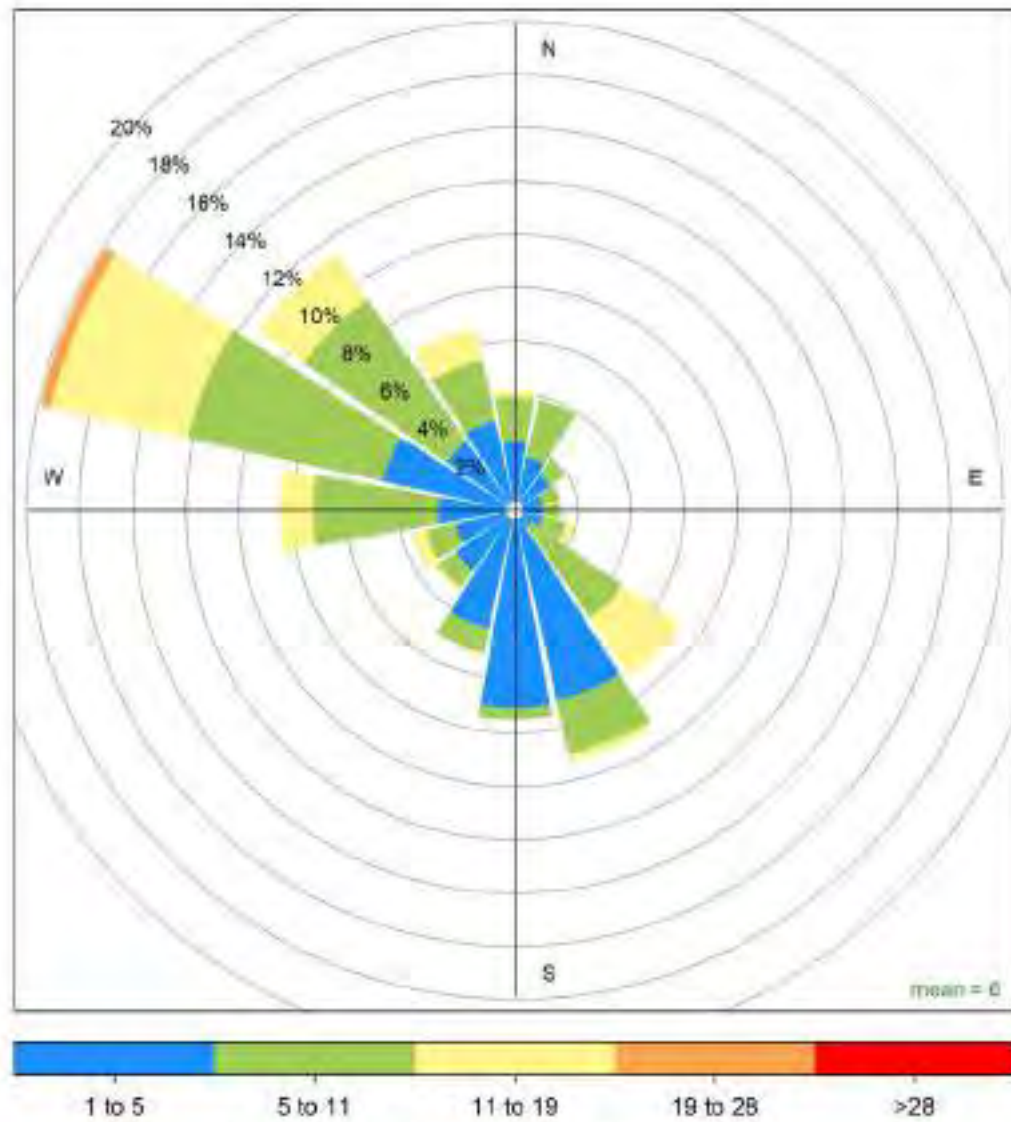


June 2025 Hourly Readings of Wind Direction (in degrees) at Fox Creek



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

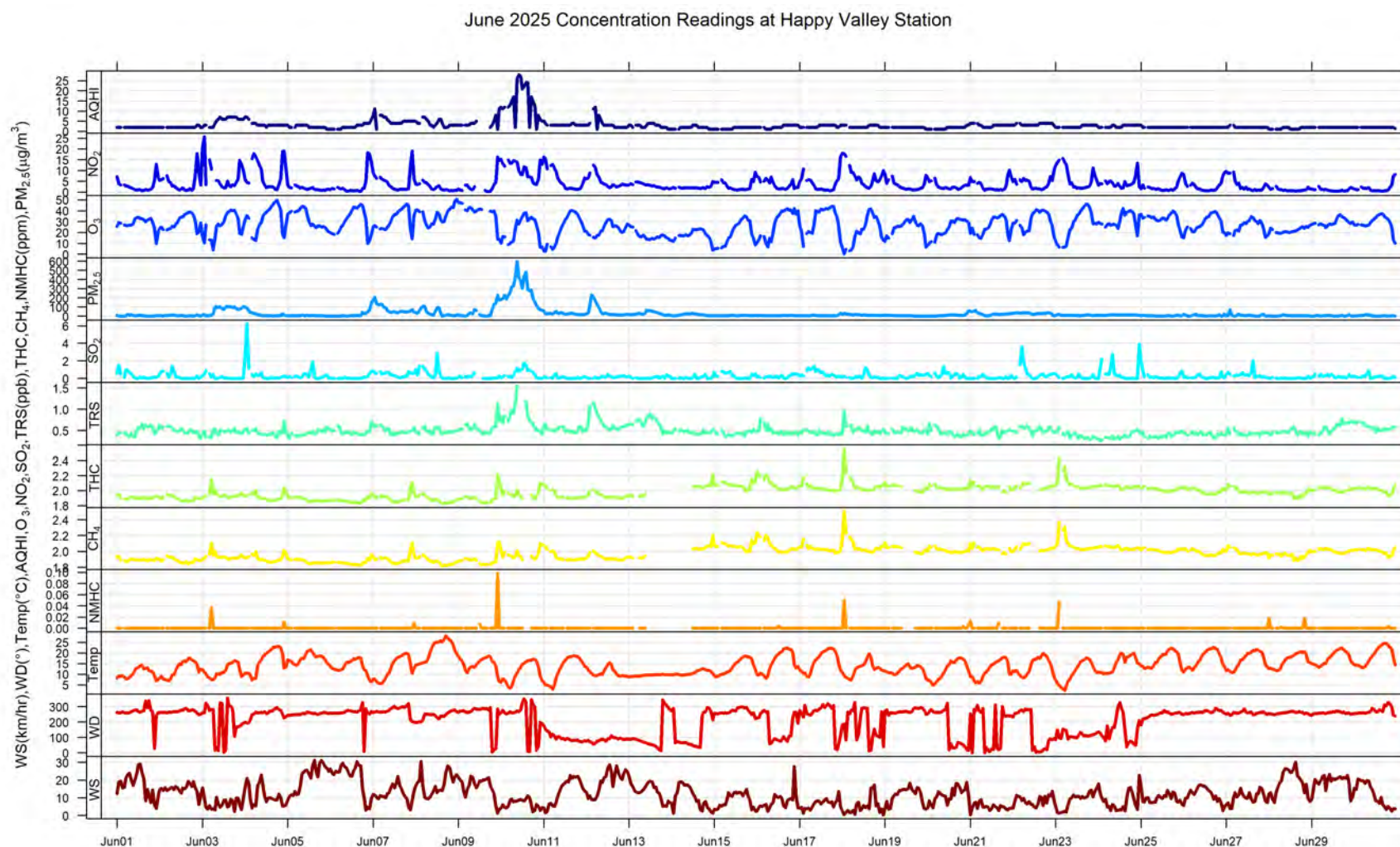




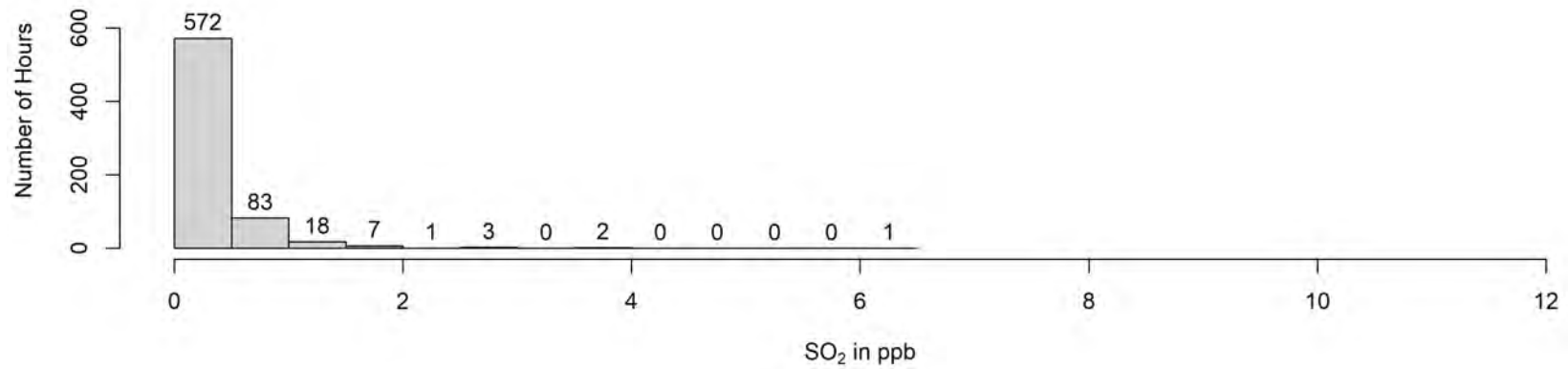
Fox Creek June 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 4.9 %

8 Happy Valley (Portable) Charts

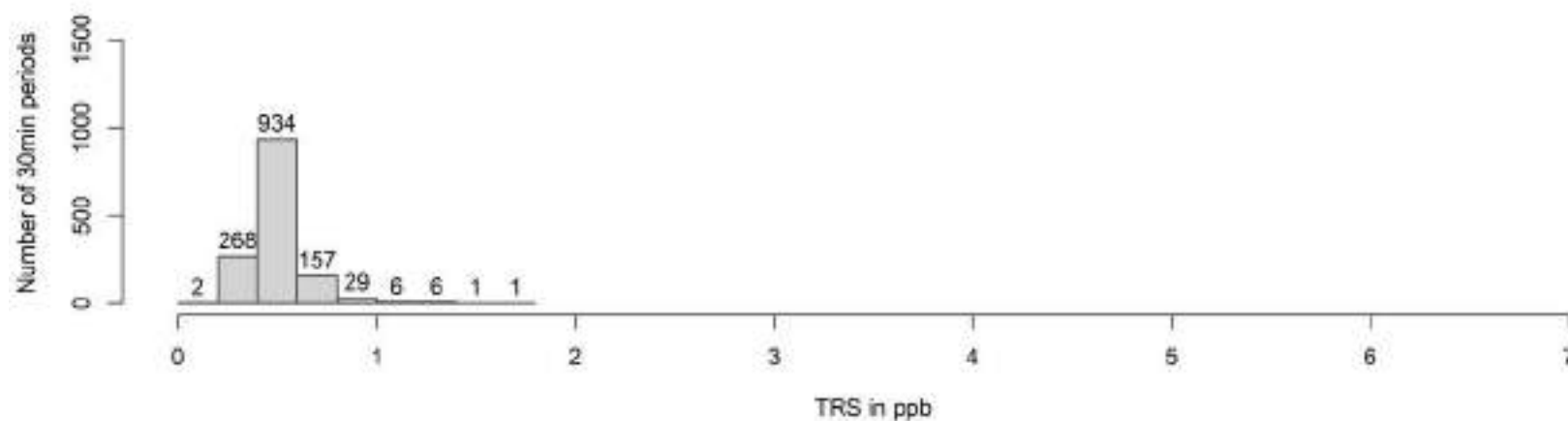
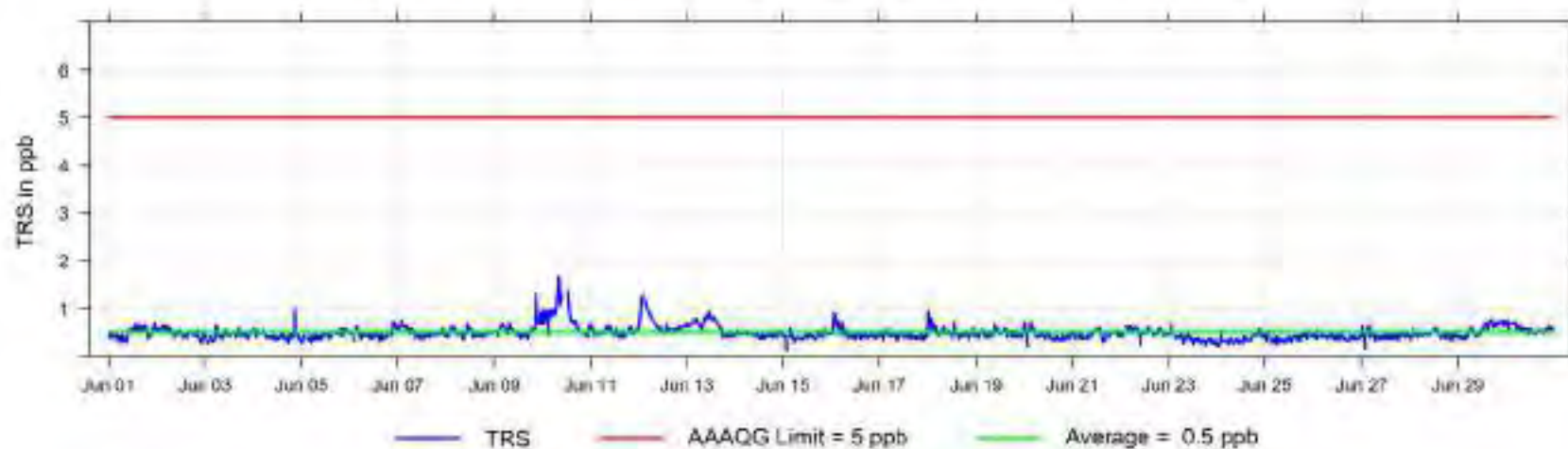
The following pages include the charts and histograms for Happy Valley Portable Station



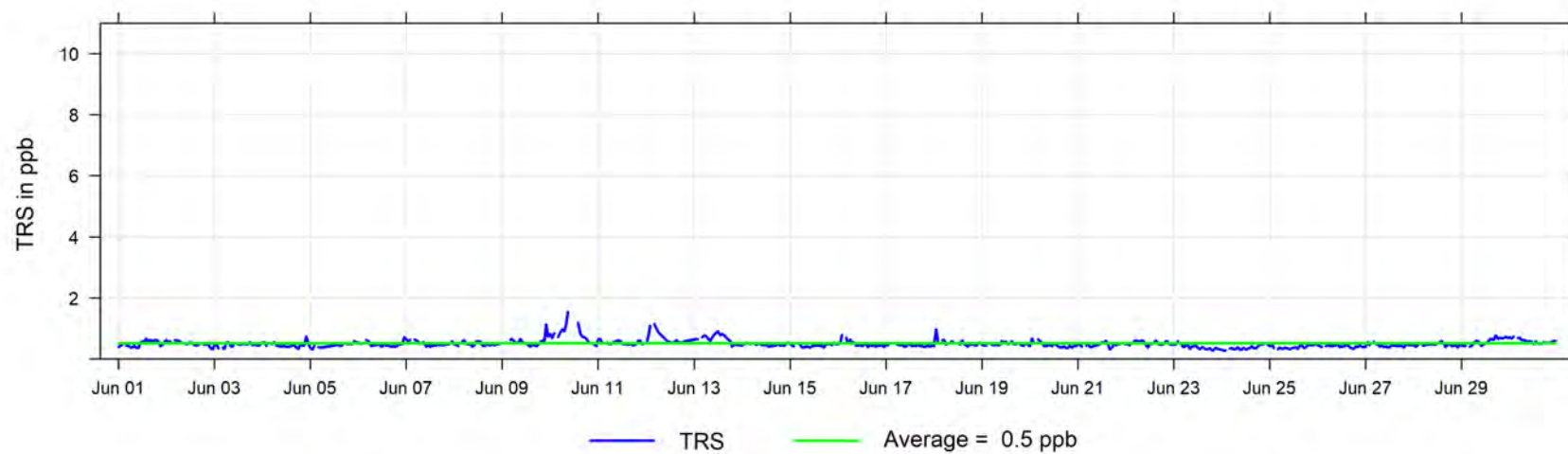
June 2025 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



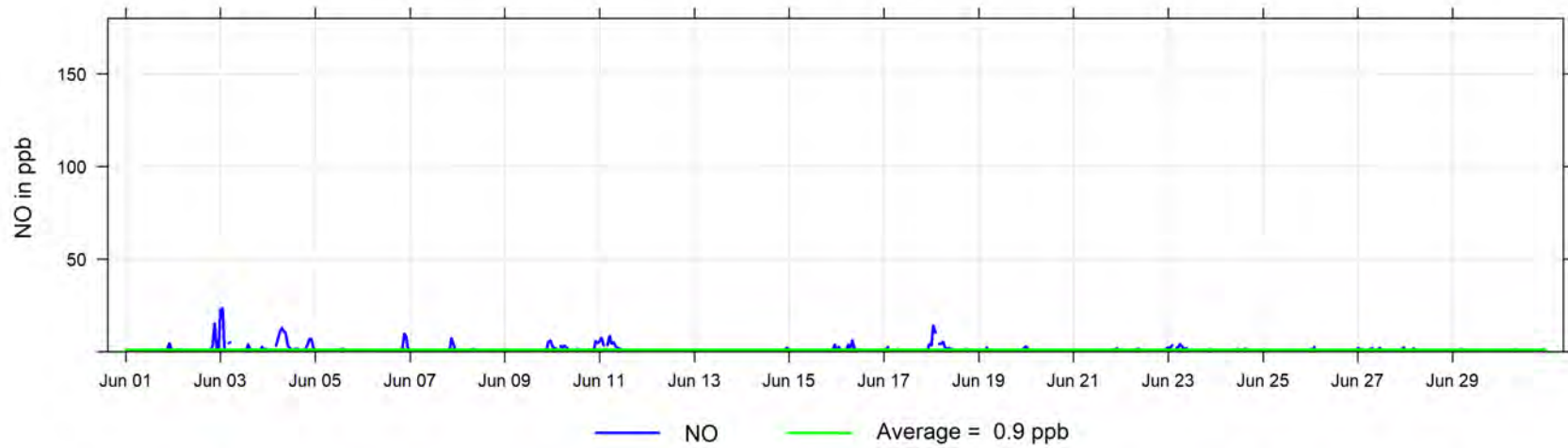
June 2025 30 min Concentration Readings of TRS (in ppb) at Happy Valley



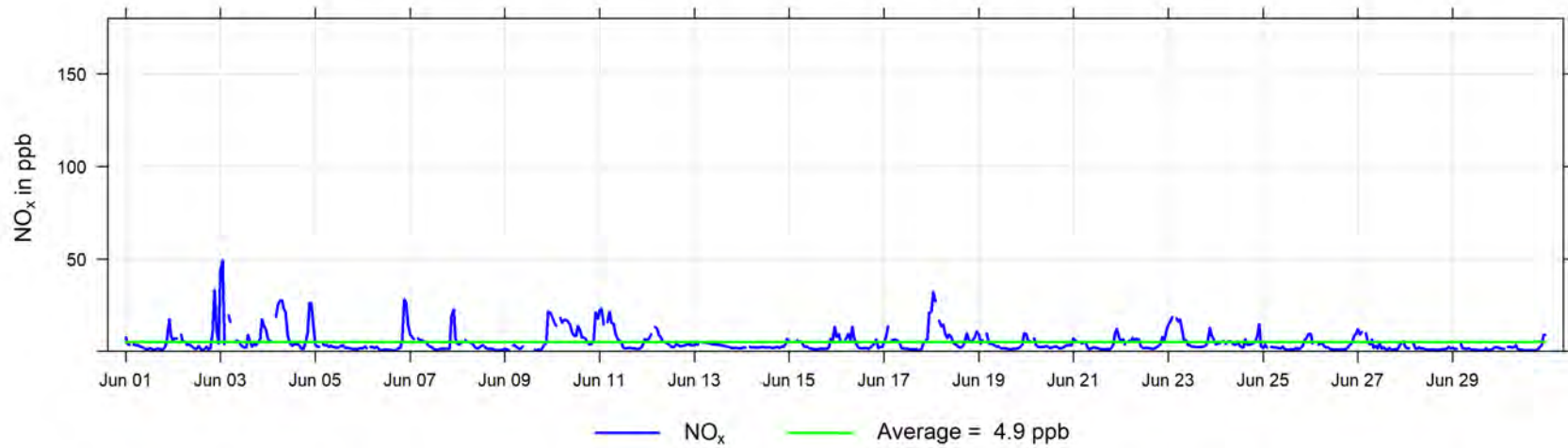
June 2025 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



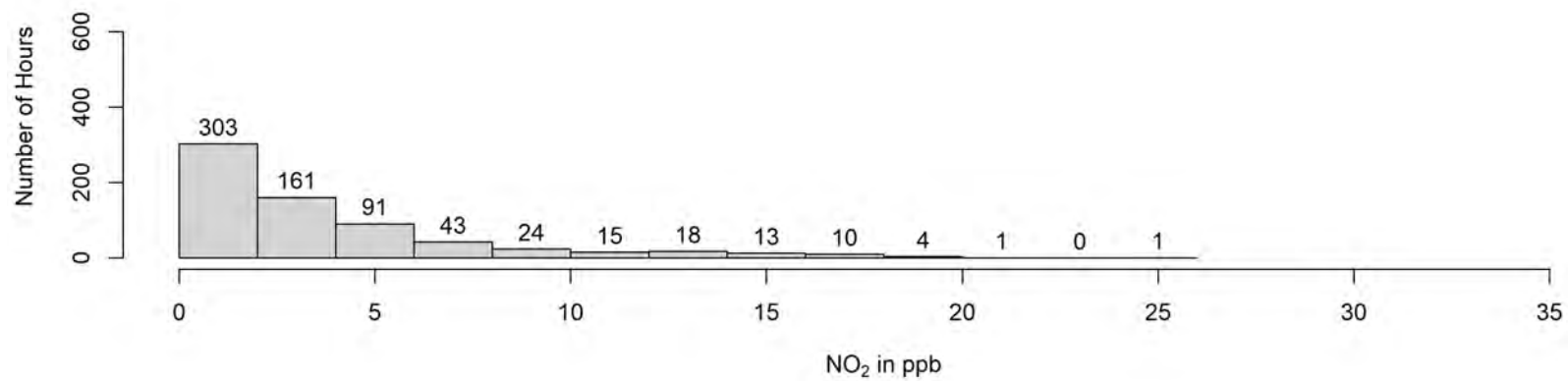
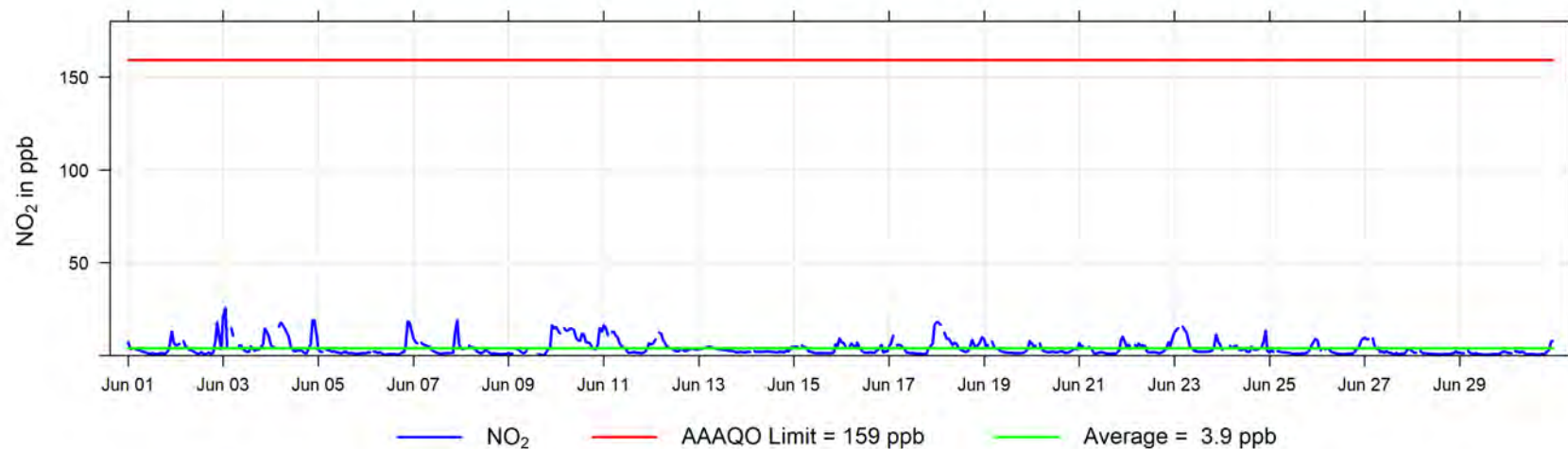
June 2025 Hourly Concentration Readings of NO (in ppb) at Happy Valley



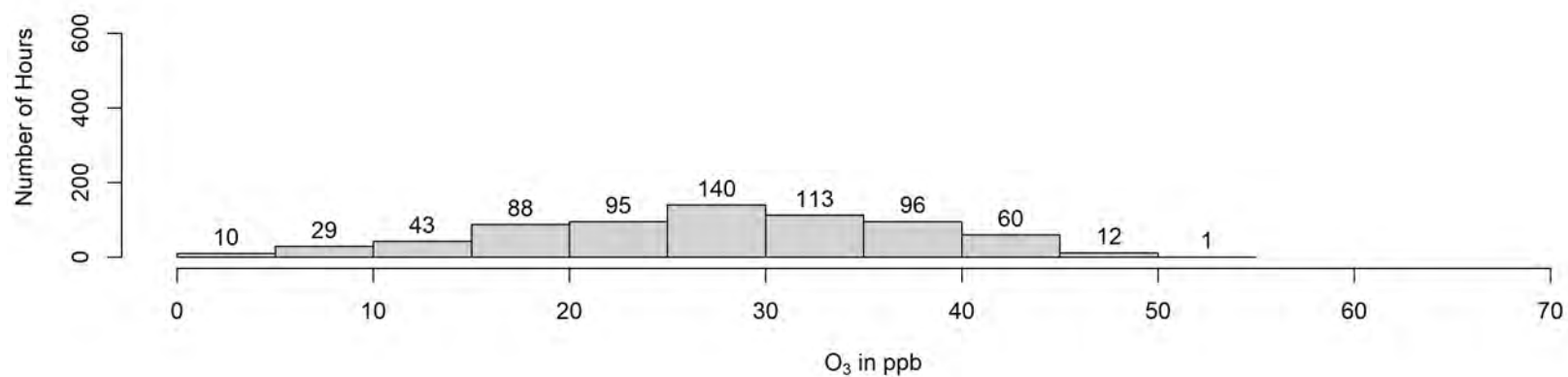
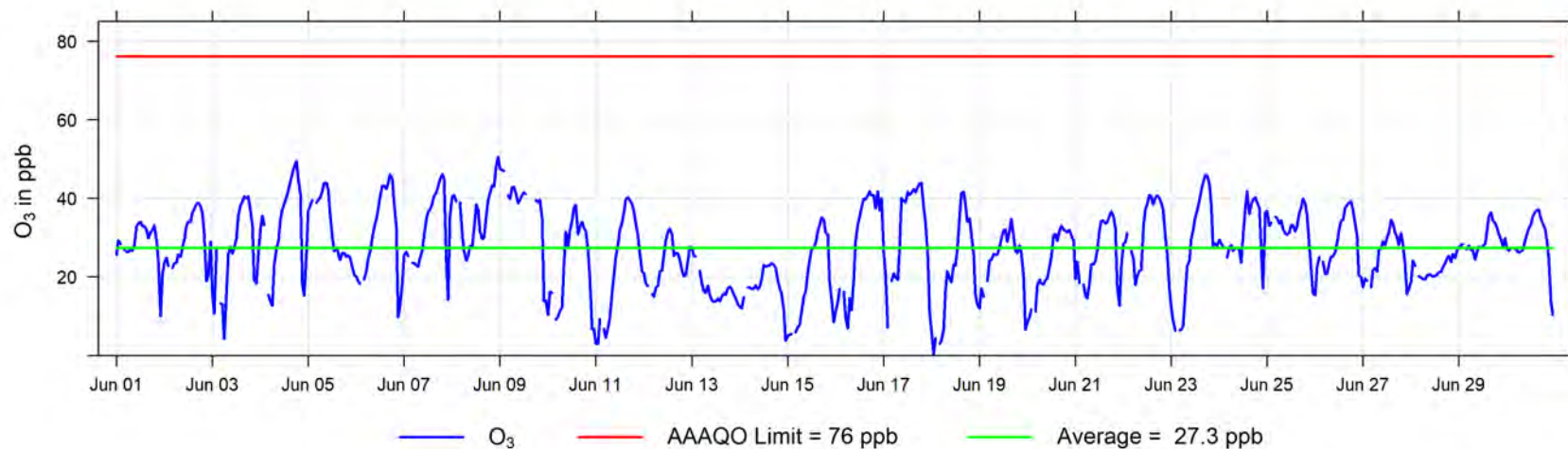
June 2025 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



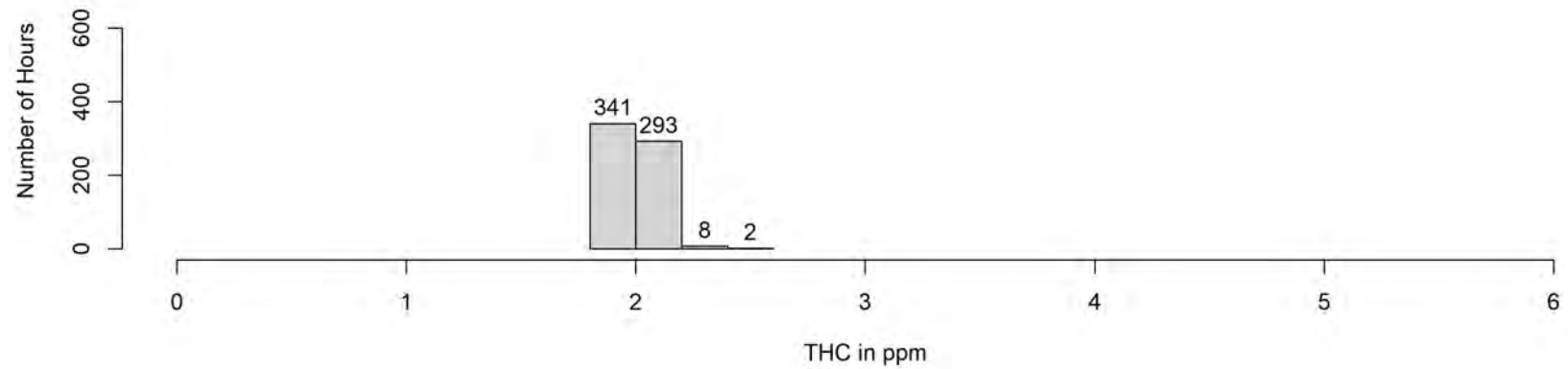
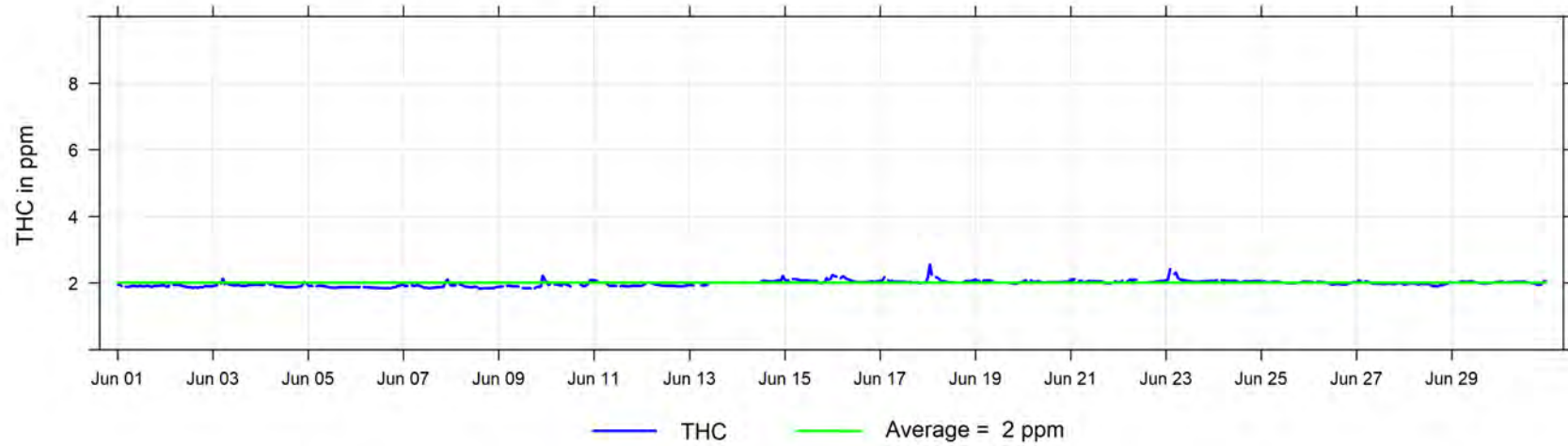
June 2025 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



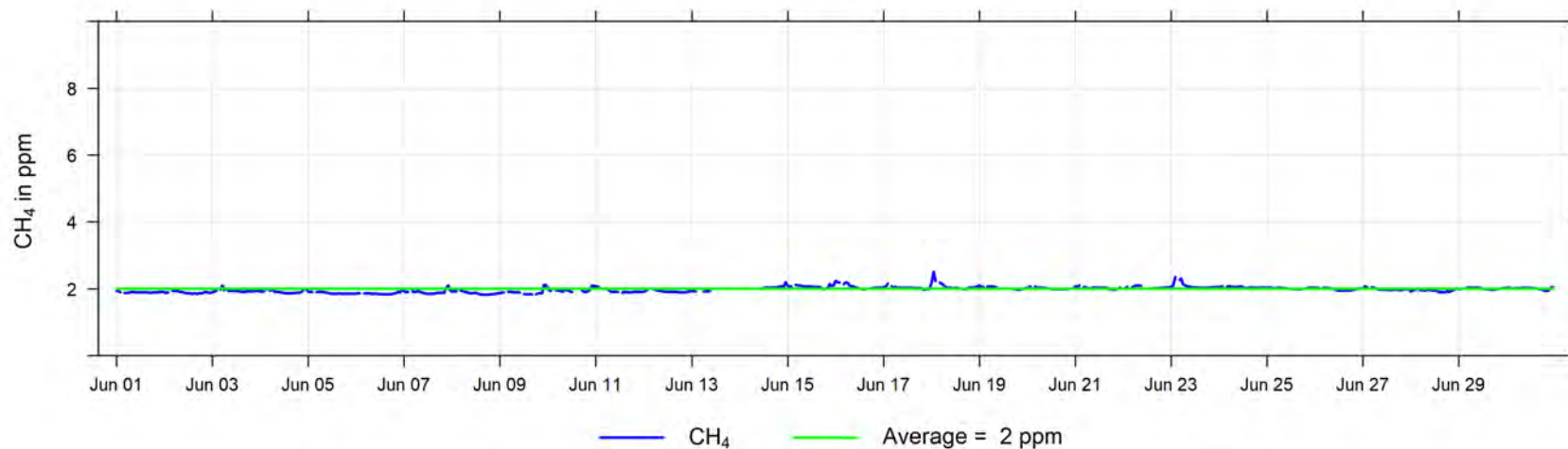
June 2025 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



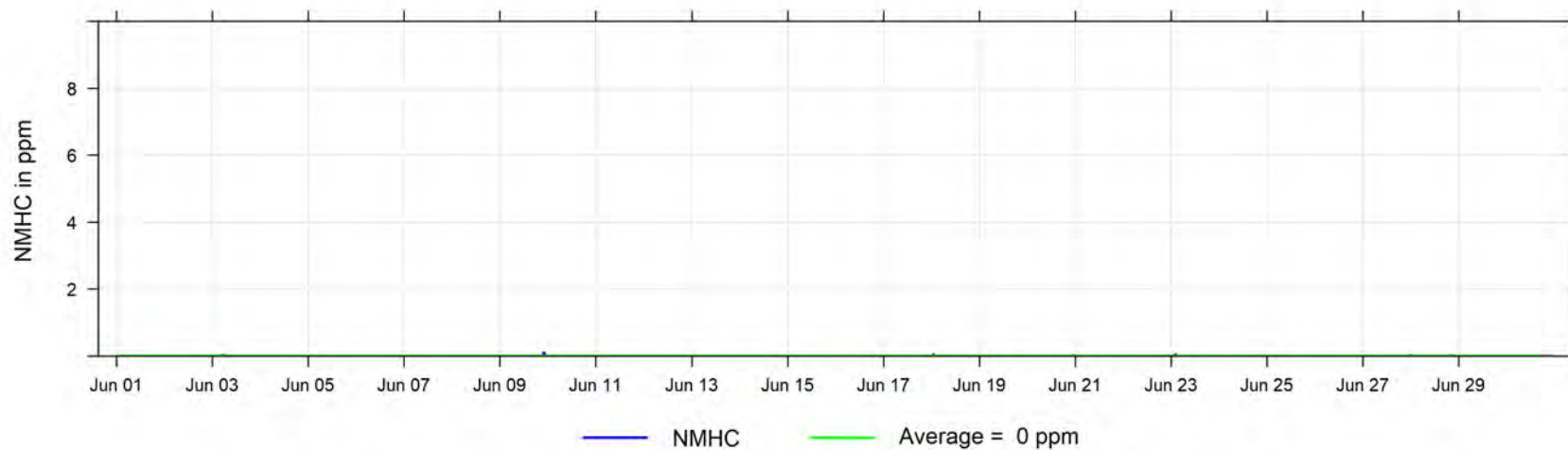
June 2025 Hourly Concentration Readings of THC (in ppm) at Happy Valley



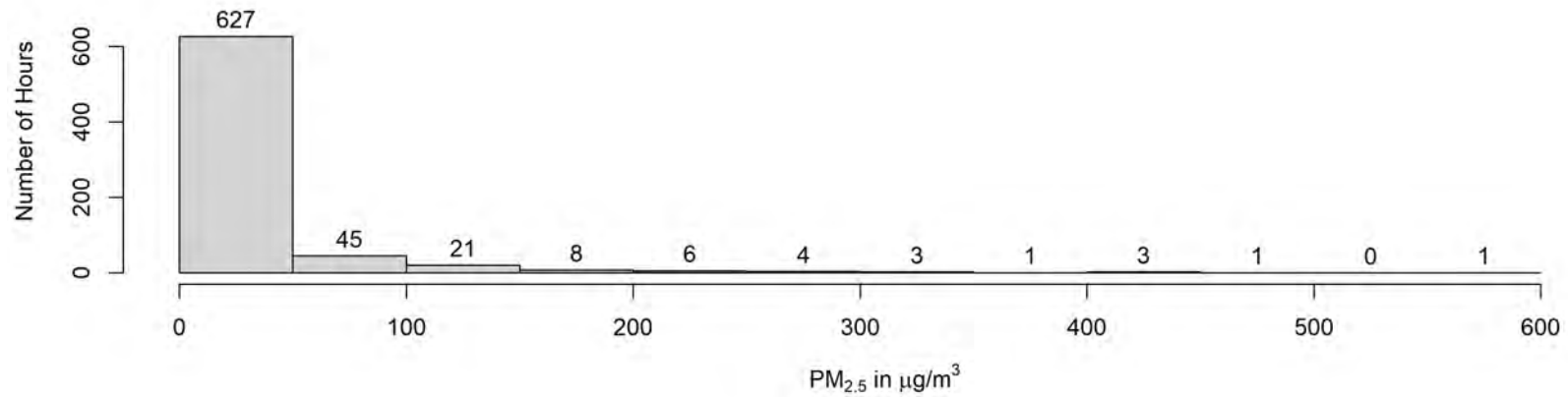
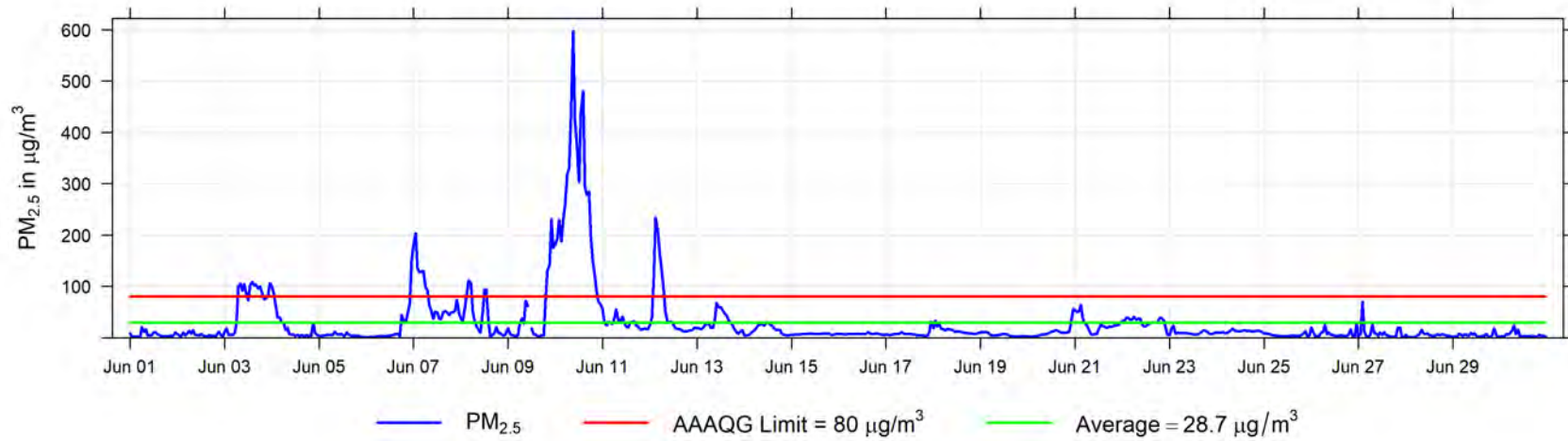
June 2025 Hourly Concentration Readings of CH₄ (in ppm) at Happy Valley



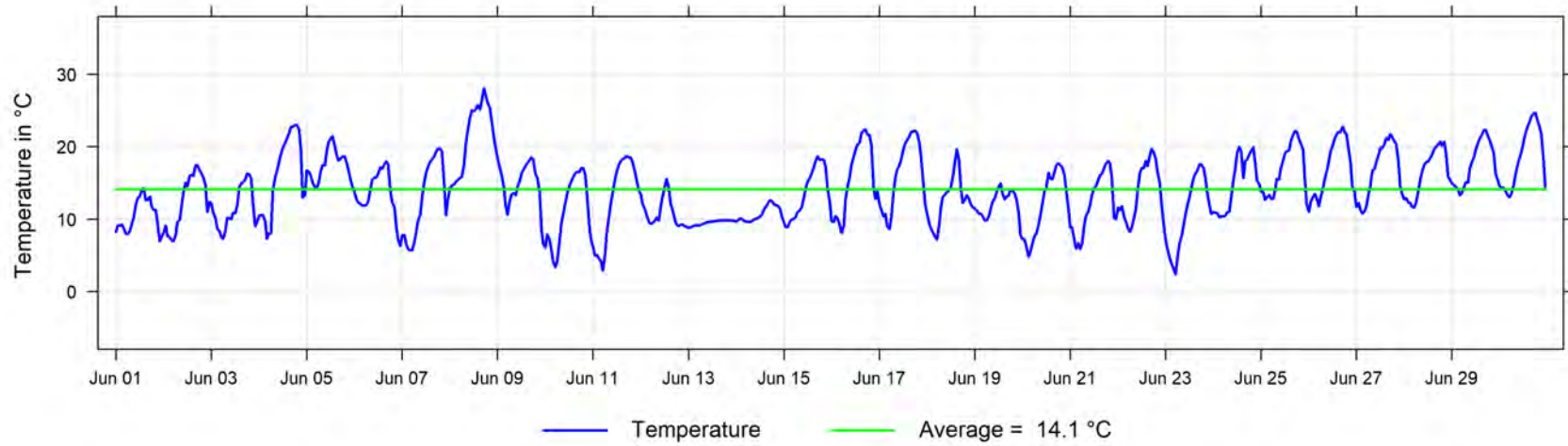
June 2025 Hourly Concentration Readings of NMHC (in ppm) at Happy Valley



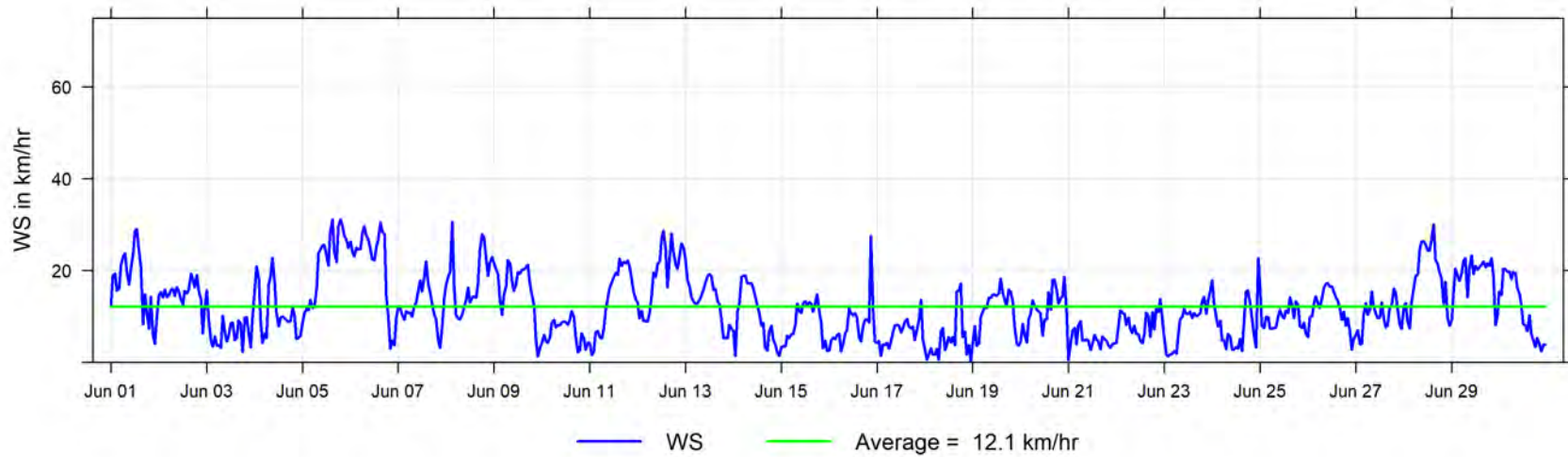
June 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



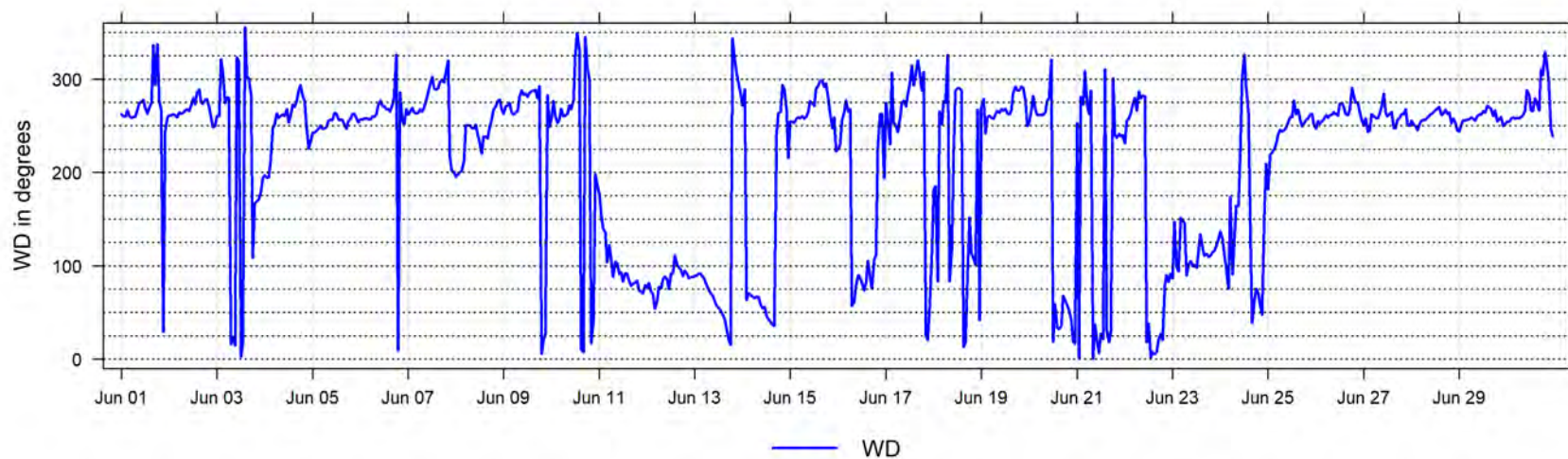
June 2025 Hourly Temperature Readings (in °C) at Happy Valley



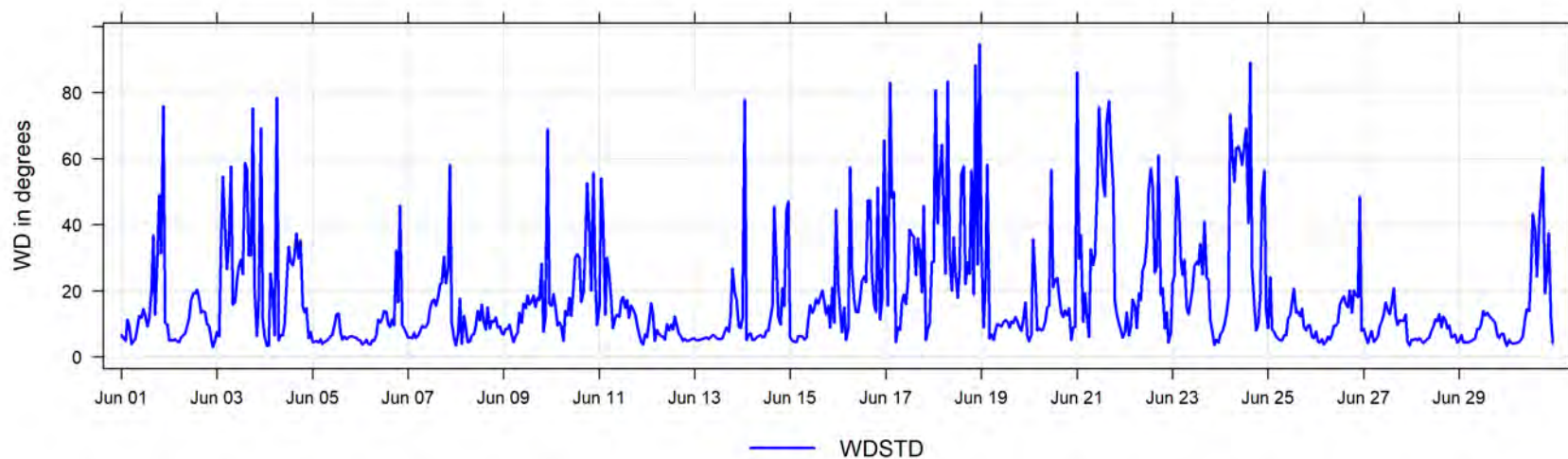
June 2025 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

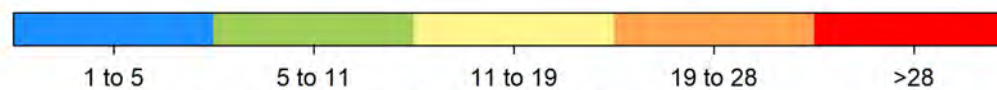
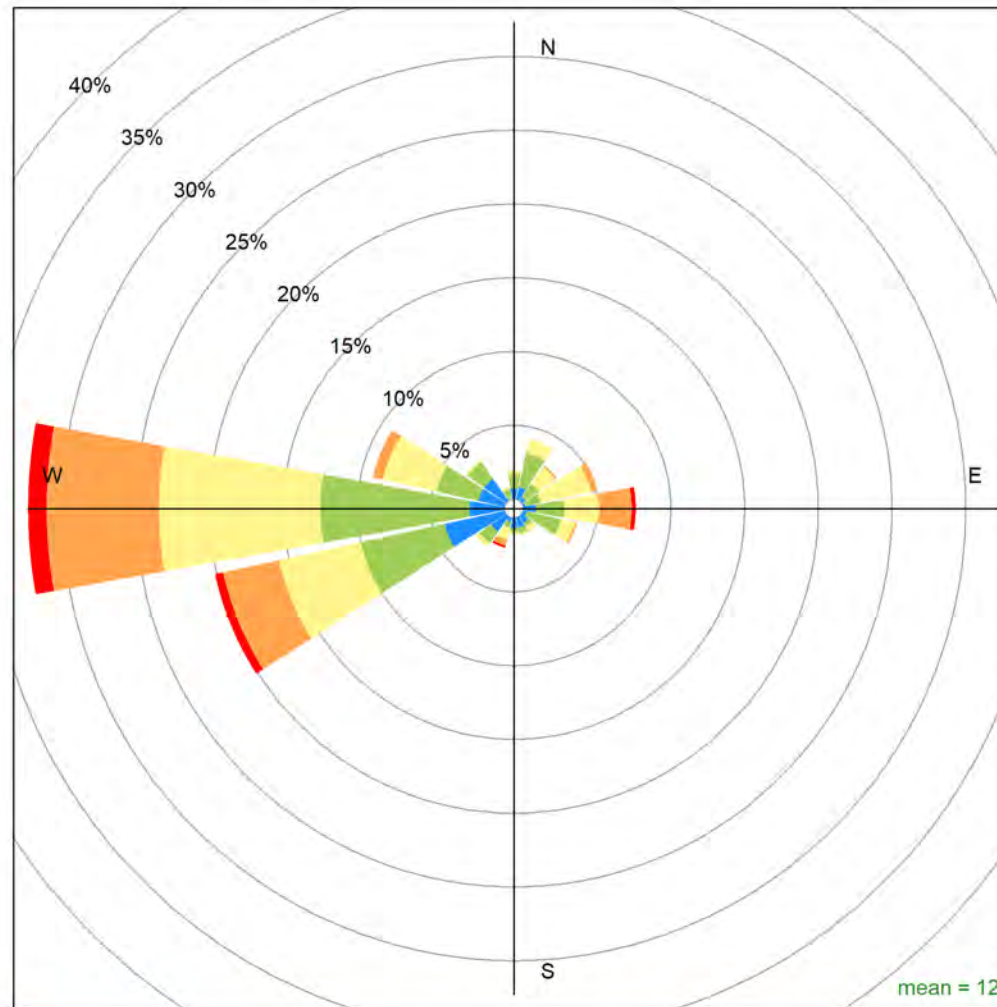


June 2025 Hourly Readings of Wind Direction (in degrees) at Happy Valley



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

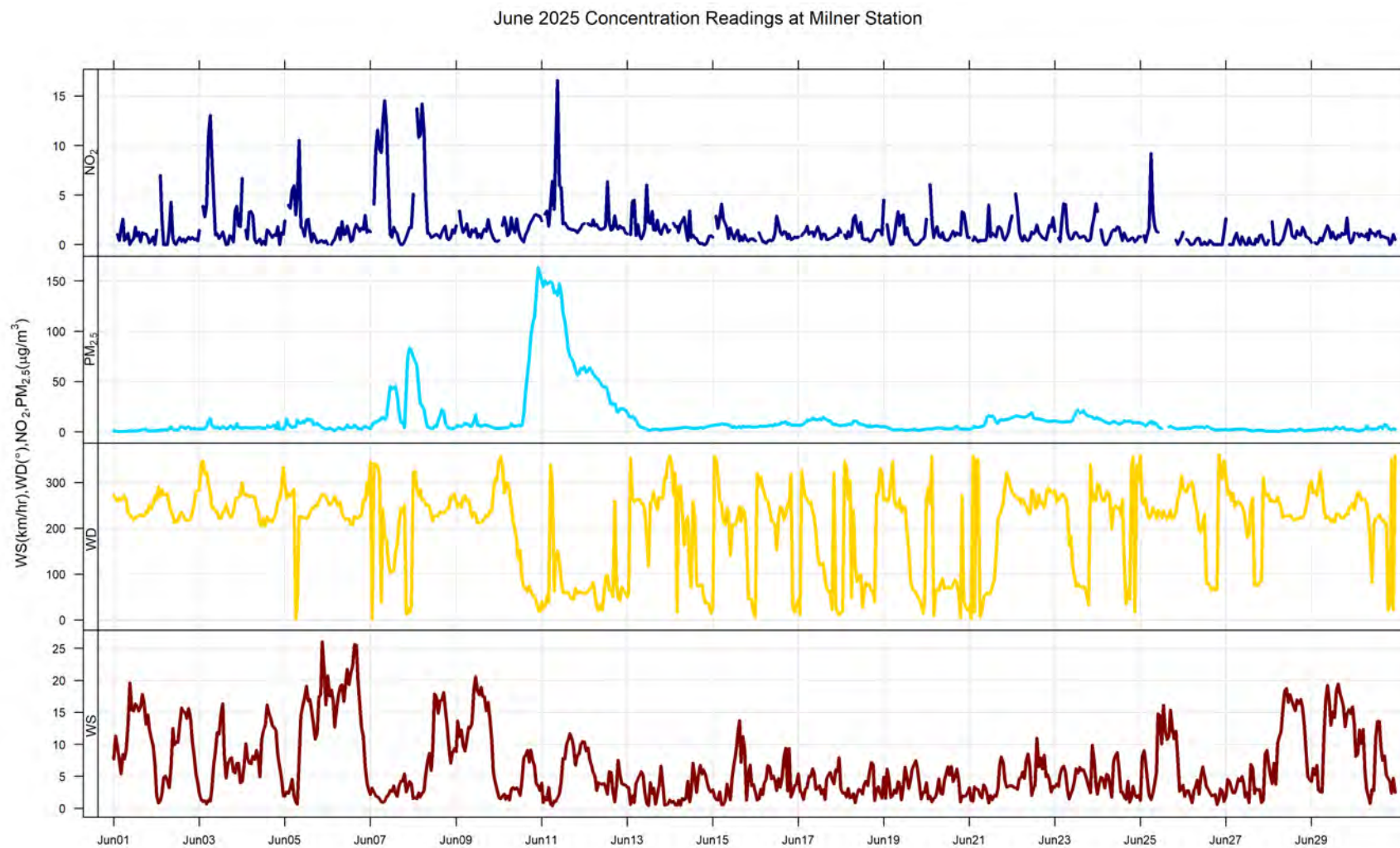




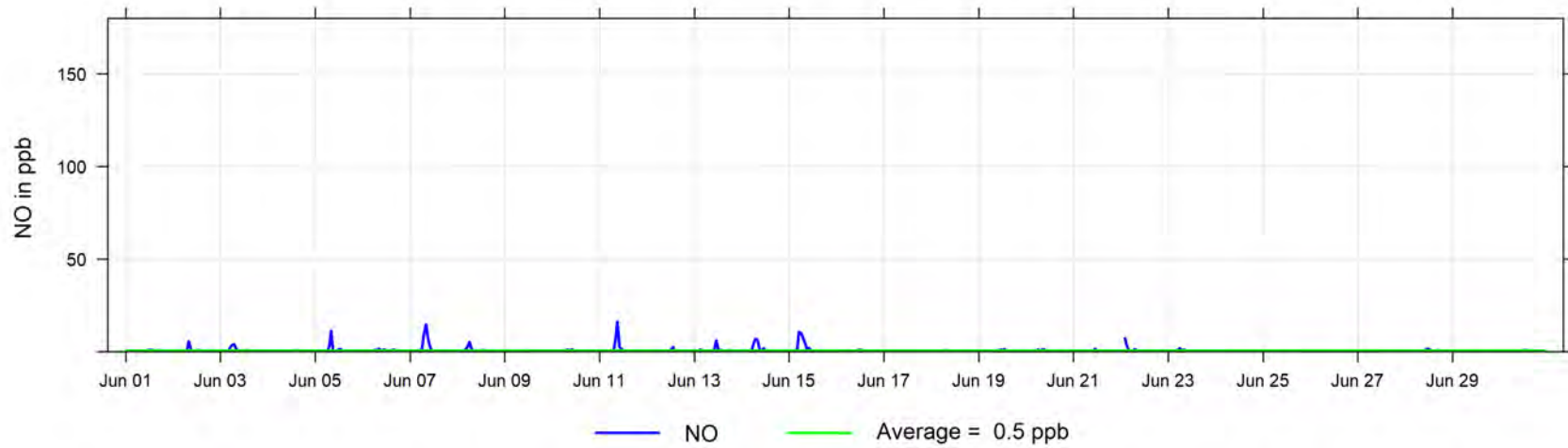
Happy Valley June 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 0.6 %

9 Milner Charts

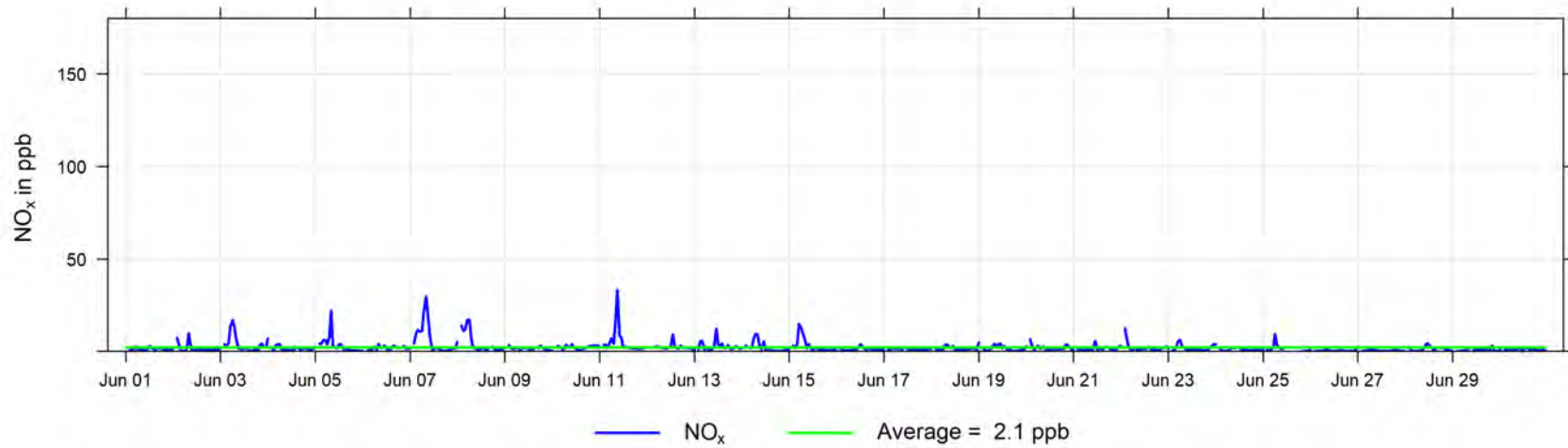
The following pages include the charts and histograms for Milner Station



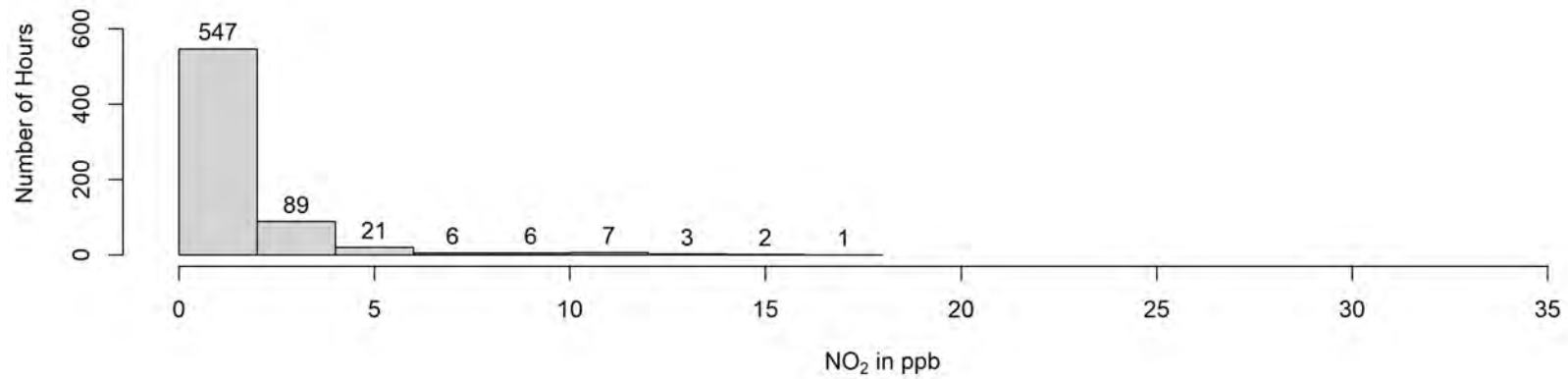
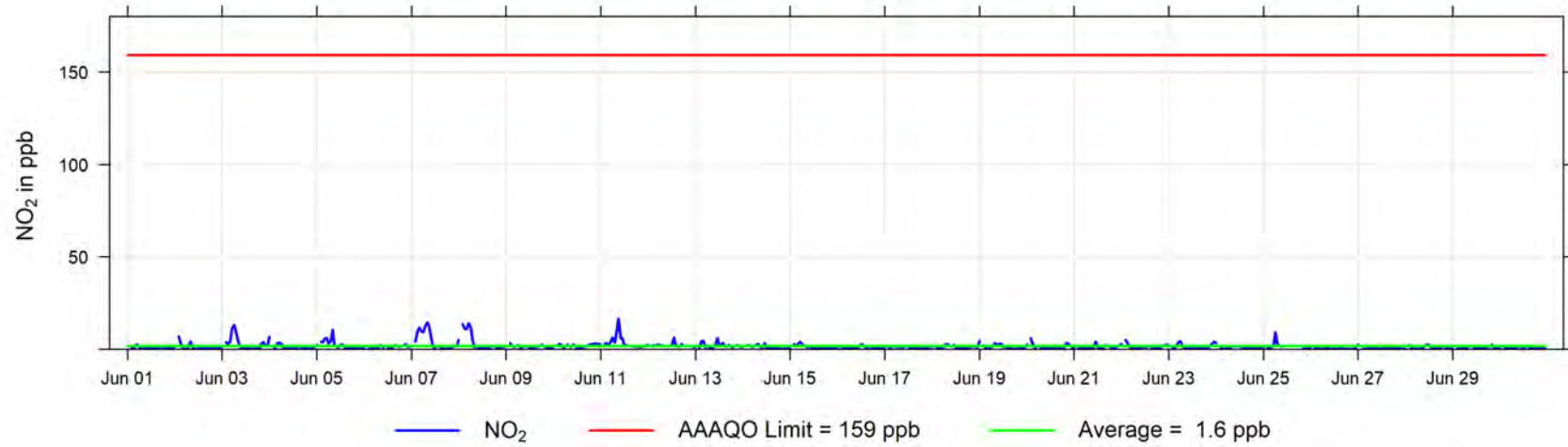
June 2025 Hourly Concentration Readings of NO (in ppb) at Milner



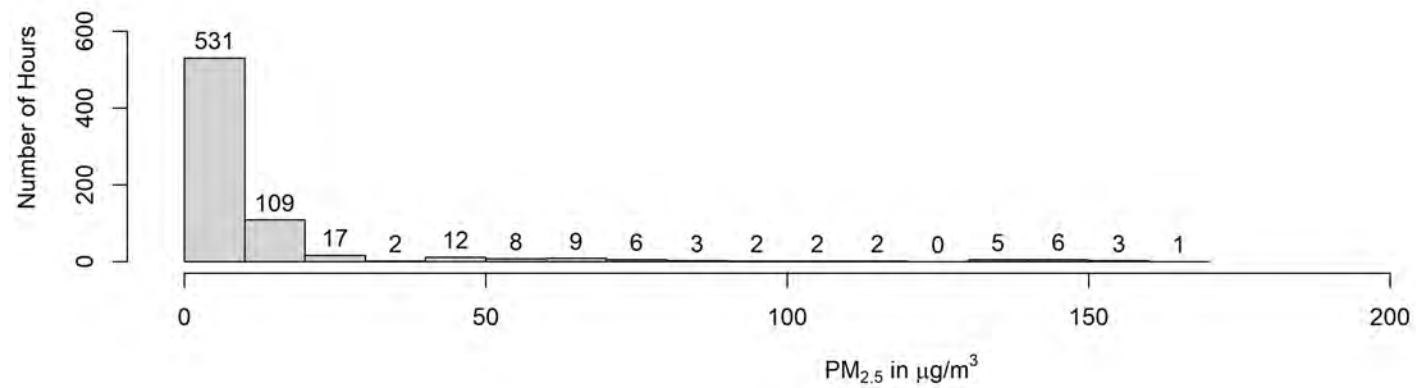
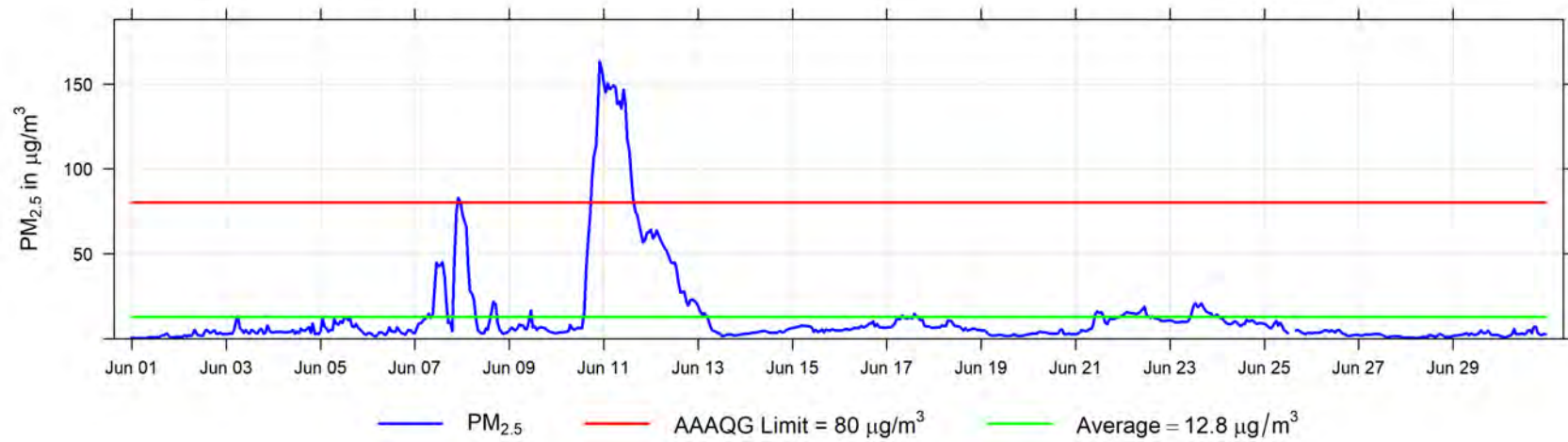
June 2025 Hourly Concentration Readings of NO_x (in ppb) at Milner



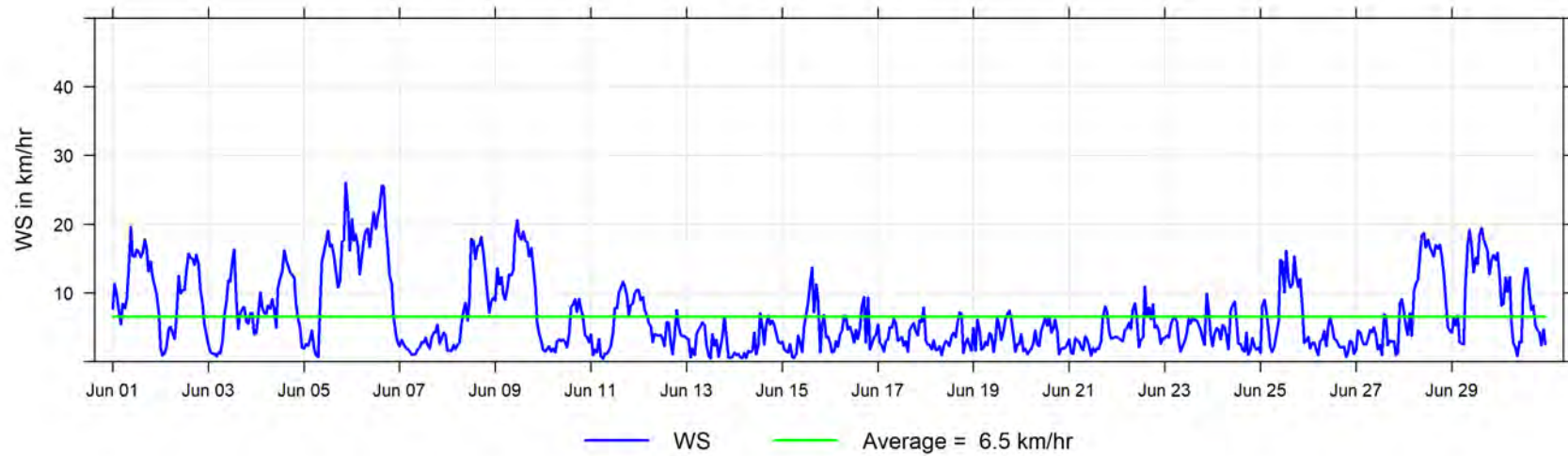
June 2025 Hourly Concentration Readings of NO₂ (in ppb) at Milner



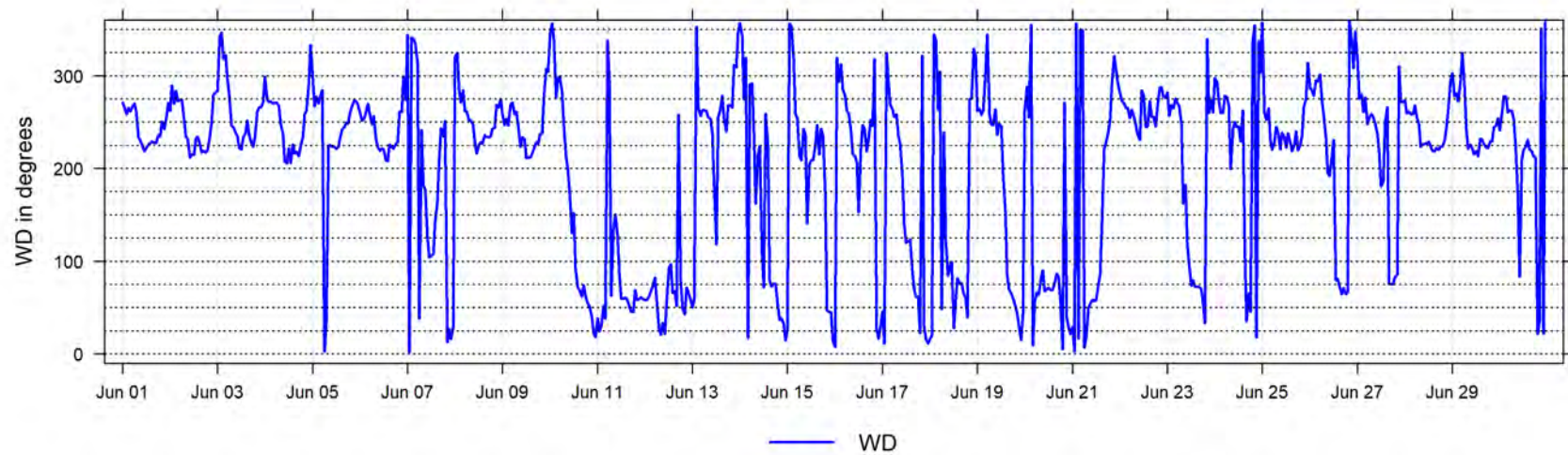
June 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



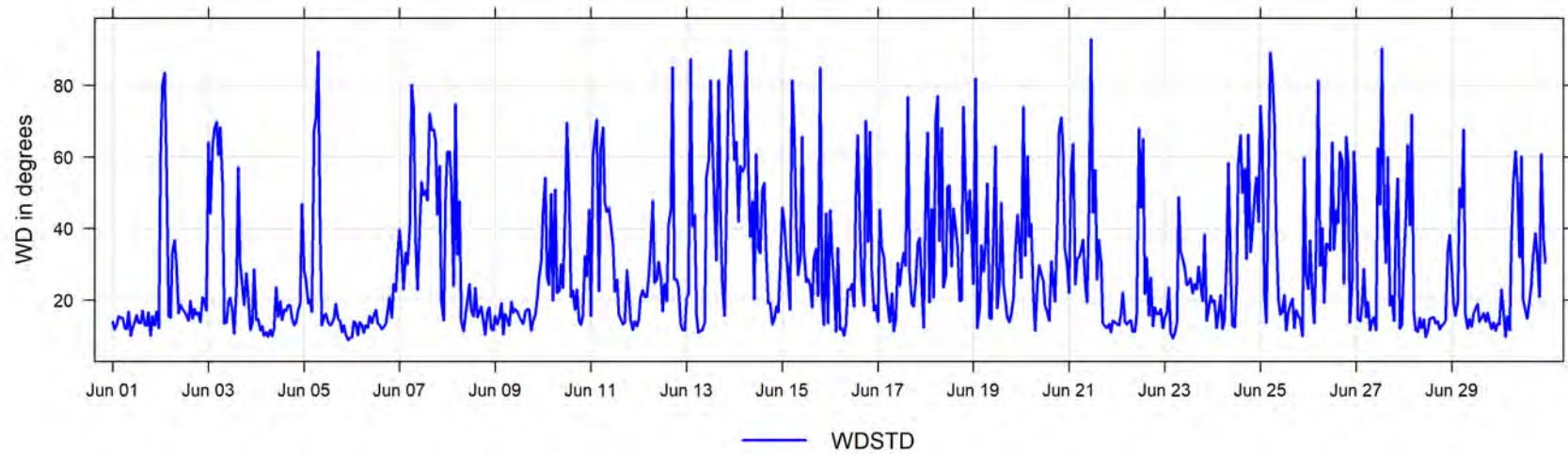
June 2025 Hourly Readings of Wind Speed (in km/hr) at Milner

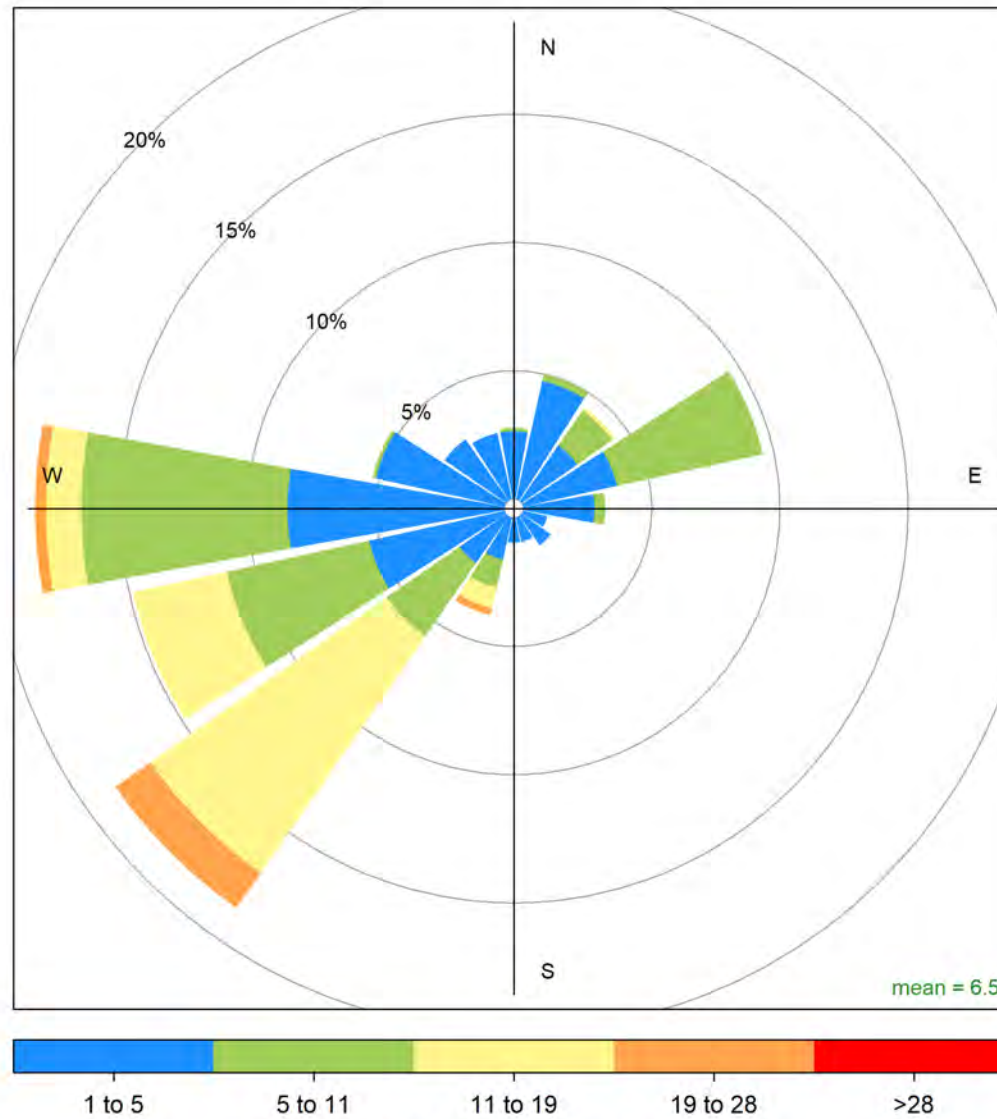


June 2025 Hourly Readings of Wind Direction (in degrees) at Milner



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





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

Calms (<1km/hr) = 4.3 %

10 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for June 2025

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
7a	Steepprock Creek			0.7		09-35-072-13 W6M
7b	Steepprock Creek			0.7		
12a	Hythe	0.2				14-36-072-11 W6M
12b	Hythe	0.2				
14a	Sylvester			0.3		08-06-069-12 W6M
14b	Sylvester			0.3		
17a	Poplar	0.4				13-06-073-08 W6M
17b	Poplar	0.5				
40a	McLennan			3.3		03-29-077-19 W5M
40b	McLennan			4.0		
41a	Valleyview			0.6		09-30-069-22 W5M
41b	Valleyview			0.6		
45a	Gift Lake	0.1				10-07-079-12 W5M
45b	Gift Lake	0.1				
46a	Little Smoky	0.3				12-01-065-21 W5M
46b	Little Smoky	0.1				
47a	Kinuso		34.3			12-10-073-10 W5M
47b	Kinuso		43.3			
D1a	Duvernay 1	0.3			0.10	04-33-062-20 W5M
D1b	Duvernay 1	0.3			0.10	
K4a	Kakwa 4			3.6		06-18-063-04 W6M
K4b	Kakwa 4			3.4		
K2a	Kakwa 2	9.0				08-13-063-05 W6M
K2b	Kakwa 2	9.0				
K1a	Kakwa 1				0.07	01-13-063-05 W6M
K1b	Kakwa 1				0.08	
M10a	Milner Powerline			1.4		06-14-058-08 W6M
M10b	Milner Powerline			1.5		
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		
J5Da	Jayar5 Camp	0.7				11-08-062-03 W6M
J5Db	Jayar5 Camp	0.7				
J1Da	Jayar1 Plant				0.12	06-08-062-03 W6M
J1Db	Jayar1 Plant				0.10	

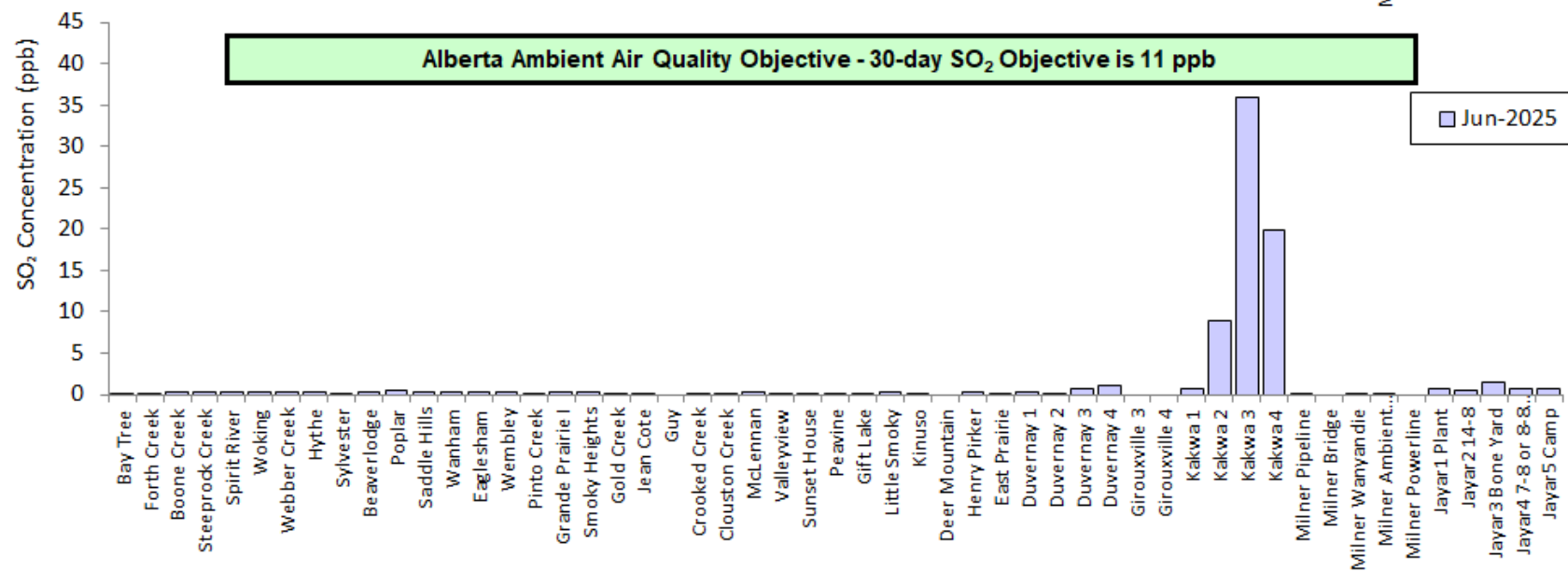
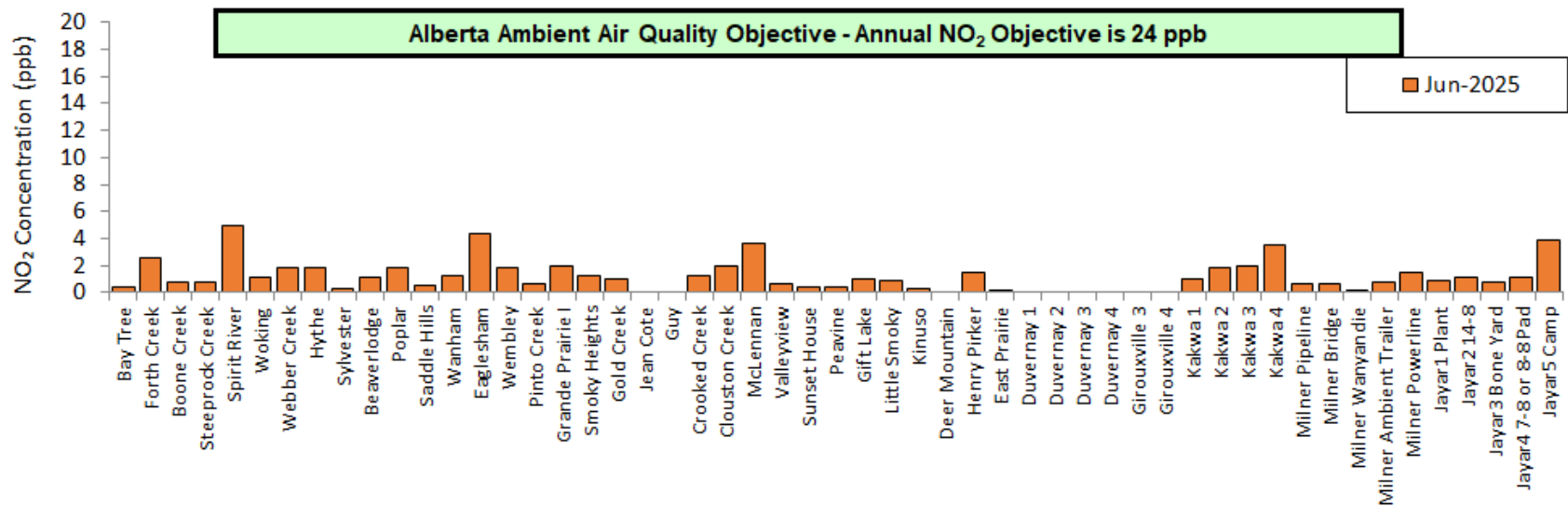
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
1	Silver Valley	0.2	-	1.1	-	08-27-081-11 W6M
2	Bay Tree	0.1	29.4	0.5	-	13-16-078-13 W6M
3	Forth Creek	0.1	-	2.6	-	04-13-082-07 W6M
5	Boone Creek	0.4	-	0.8	-	01-23-076-11 W6M
7	Steeprock Creek	0.3	-	0.7	-	09-35-072-13 W6M
9	Spirit River	0.3	-	5.0	-	08-12-079-07 W6M
10	Woking	0.3	-	1.1	-	01-13-076-07 W6M
11	Webber Creek	0.3	-	1.8	-	09-36-074-09 W6M
12	Hythe	0.2	-	1.8	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.3	-	08-06-069-12 W6M
16	Beaverlodge	0.4	-	1.1	-	15-36-071-10 W6M
17	Poplar	0.5	-	1.9	-	13-06-073-08 W6M
18	Saddle Hills	0.3	-	0.5	-	04-25-074-07 W6M
19	Wanham	0.3	-	1.2	-	16-22-077-03 W6M
21	Eaglesham	0.3	-	4.4	-	16-21-079-25 W5M
24	Wembley	0.4	-	1.9	-	12-31-070-08 W6M
25	Pinto Creek	0.2	-	0.7	-	04-24-069-11 W6M
27	Grande Prairie I	0.3	-	1.9	-	08-15-071-06 W6M
29	Smoky Heights	0.4	-	1.2	-	04-06-075-02 W6M
32	Gold Creek	0.1	-	1.0	-	06-33-067-05 W6M
35	Jean Cote	0.1	-	Damaged	-	12-35-079-21 W5M
36	Guy	Not Collected	-	Not Collected	Not Collected	03-04-076-22 W5M
37	Crooked Creek	0.1	35.6	1.2	-	16-01-071-26 W5M
39	Clouston Creek	0.2	-	2.0	-	12-01-073-22 W5M
40	McLennan	0.2	-	3.7	-	03-29-077-19 W5M
41	Valleyview	0.1	-	0.6	-	09-30-069-22 W5M
42	Sunset House	0.1	-	0.5	-	05-32-070-19 W5M
44	Peavine	0.2	-	0.4	-	03-05-079-15 W5M
45	Gift Lake	0.1	-	1.0	-	10-07-079-12 W5M
46	Little Smoky	0.2	-	0.9	-	12-01-065-21 W5M
47	Kinuso	0.1	38.8	0.3	-	12-10-073-10 W5M
48	Deer Mountain	Not Collected	-	Not Collected	-	15-22-068-09 W5M
49	Henry Piker	0.3	-	1.5	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.2	-	11-13-079-08 W6M
D1	Duvernay 1	0.3	-	-	0.10	04-33-062-20 W5M
D2	Duvernay 2	0.2	-	-	0.08	04-33-062-20 W5M
D3	Duvernay 3	0.8	-	-	0.19	04-33-062-20 W5M
D4	Duvernay 4	1.0	-	-	0.21	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	Damaged	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.61	04-08-077-22 W5M
K1	Kakwa 1	0.6	-	1.0	0.08	01-13-063-05 W6M
K2	Kakwa 2	9.0	-	1.8	0.20	08-13-063-05 W6M
K3	Kakwa 3	36.0	-	1.9	0.32	12-18-063-04 W6M
K4	Kakwa 4	19.9	-	3.5	0.32	06-18-063-04 W6M
M1	Milner Pipeline	0.1	-	0.6	-	12-14-058-08 W6M
M2	Milner Bridge	<0.1	-	0.6	-	08-06-057-08 W6M
M3	Milner Wanyandie	0.1	-	0.2	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	0.1	-	0.7	-	09-15-058-08 W6M
M5	Milner Powerline	<0.1	-	1.5	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.6	-	0.9	0.11	06-08-062-03 W6M
J2	Jayar2 14-8	0.5	-	1.1	0.12	07-08-062-03 W6M
J3	Jayar3 Bone Yard	1.5	-	0.7	0.10	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	0.7	-	1.1	0.13	10-08-062-03 W6M
J5	Jayar5 Camp	0.7	-	3.9	0.30	11-08-062-03 W6M

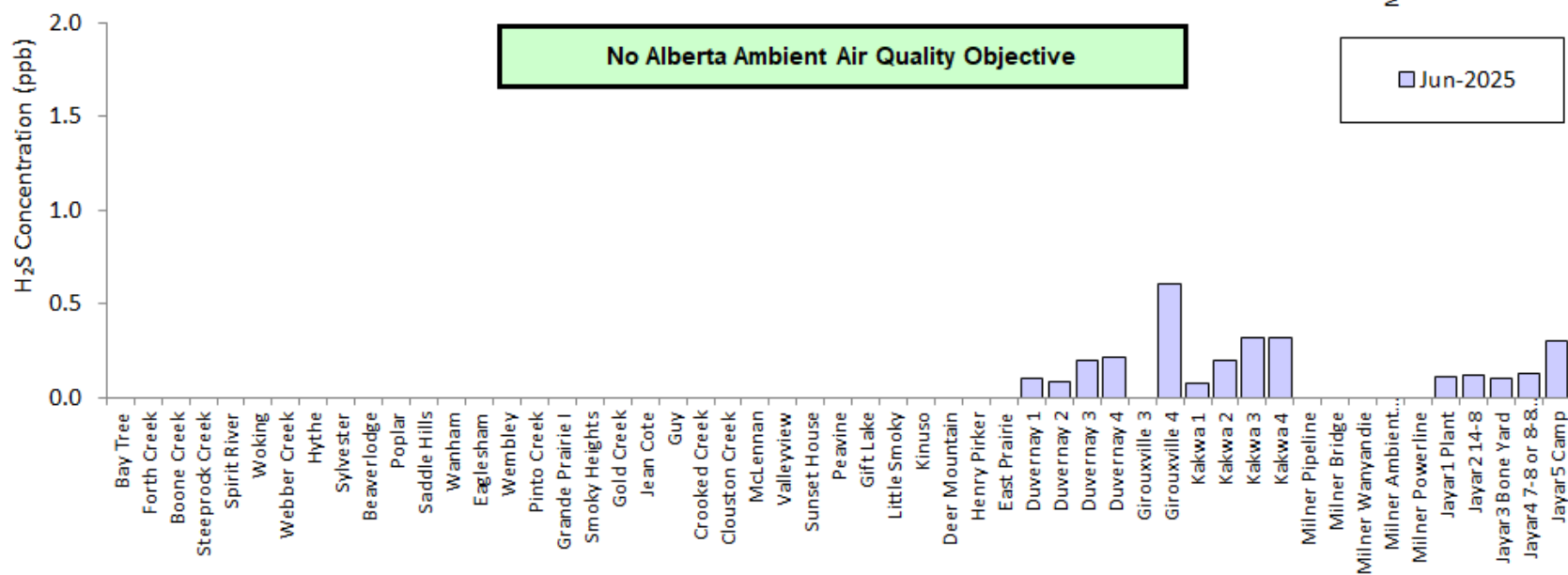
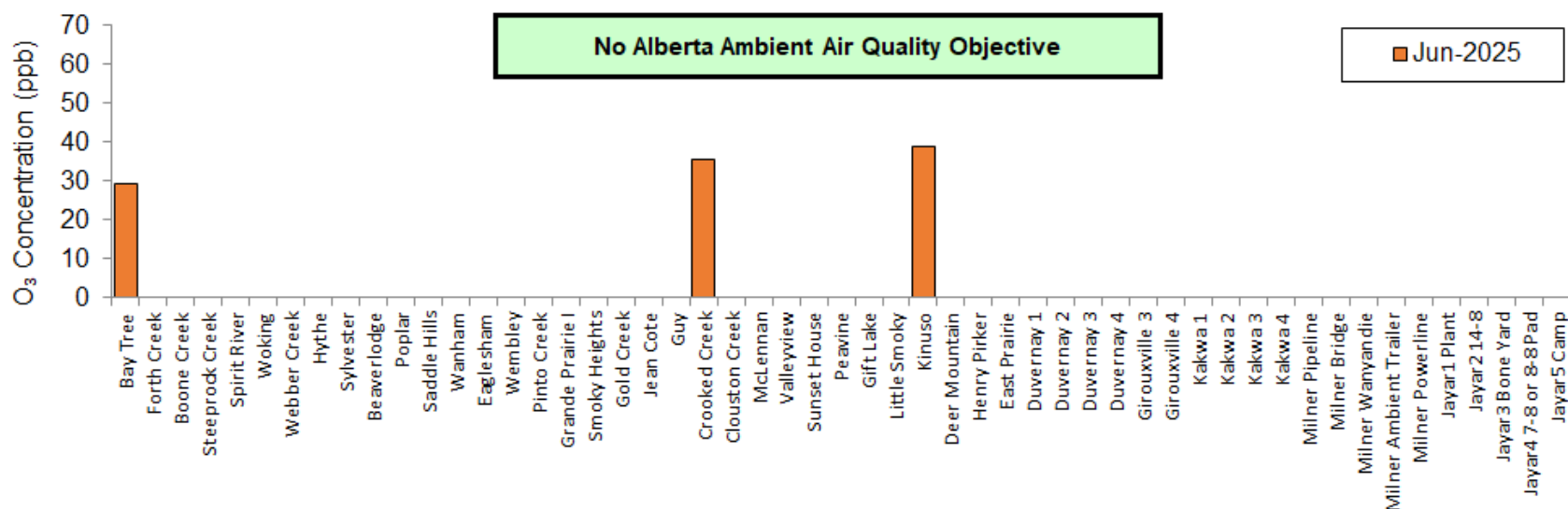
Passive Summary for June 2025

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

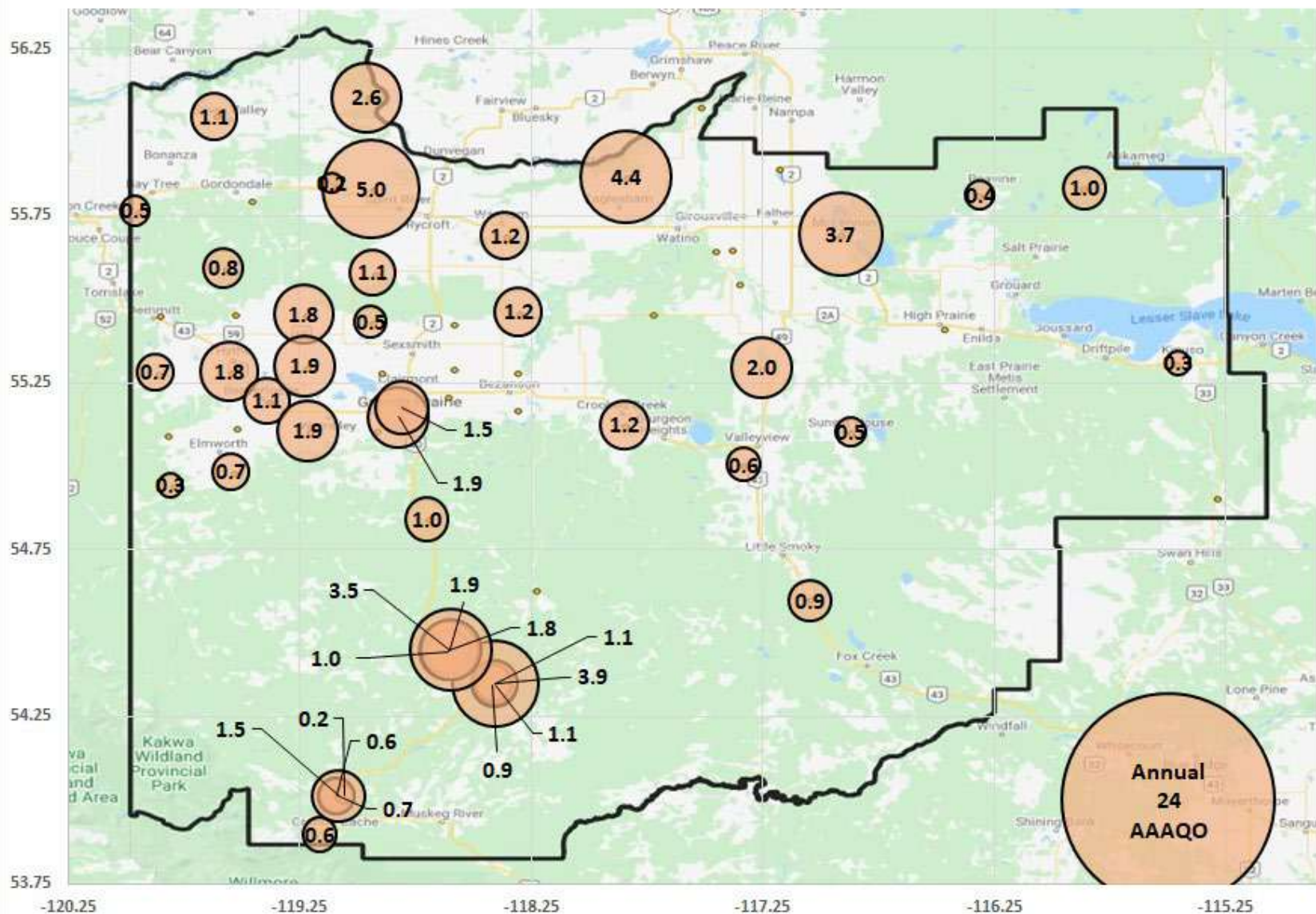
Passive Summary for June 2025 (PAZA)				
Mean	1.7	34.6	1.4	0.2
Standard Deviation	5.9	4.8	1.1	0.2
Minimum	0.1	29.4	0.2	0.1
	Gift Lake (#45)	Bay Tree (#2)	Milner Wanyandie (#M3)	Kakwa 1 (#K1)
Maximum	36.0	38.8	5.0	0.6
	Kakwa 3 (#K3)	Kinuso (#47)	Spirit River (#9)	Girouxville 4 (#G4)

Continuous and Passive Monitoring Comparison				
PAZA Beaverlodge Station	0.3	29.7	2.6	-
Beaverlodge Passive (#16)	0.4	-	1.1	-
PAZA Henry Pirker Station	0.1	28.6	4.7	0.1
Henry Pirker passive (#49)	0.3	-	1.5	-
Milner Station	-	-	1.6	-
Milner passive	0.1	-	0.7	-

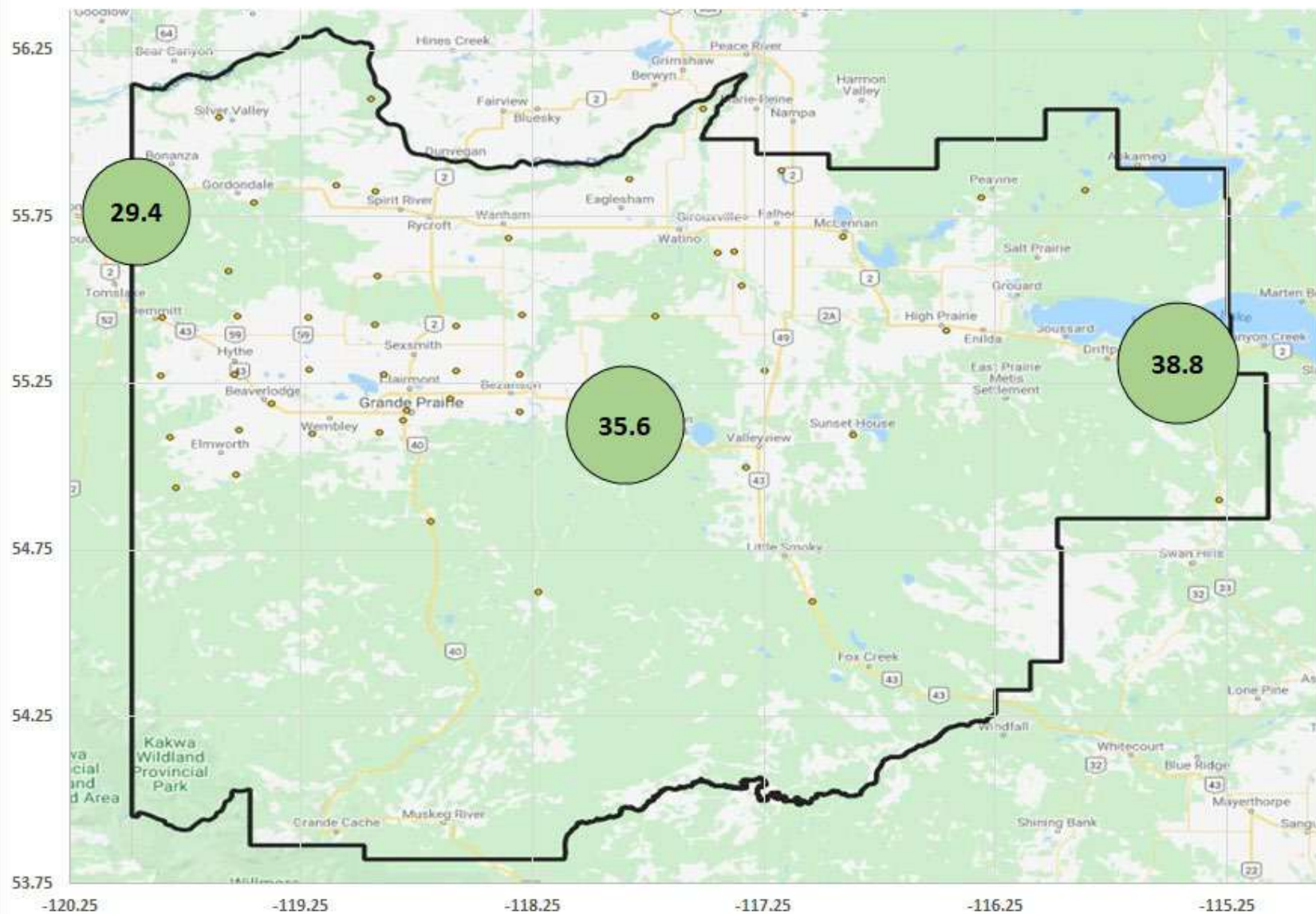




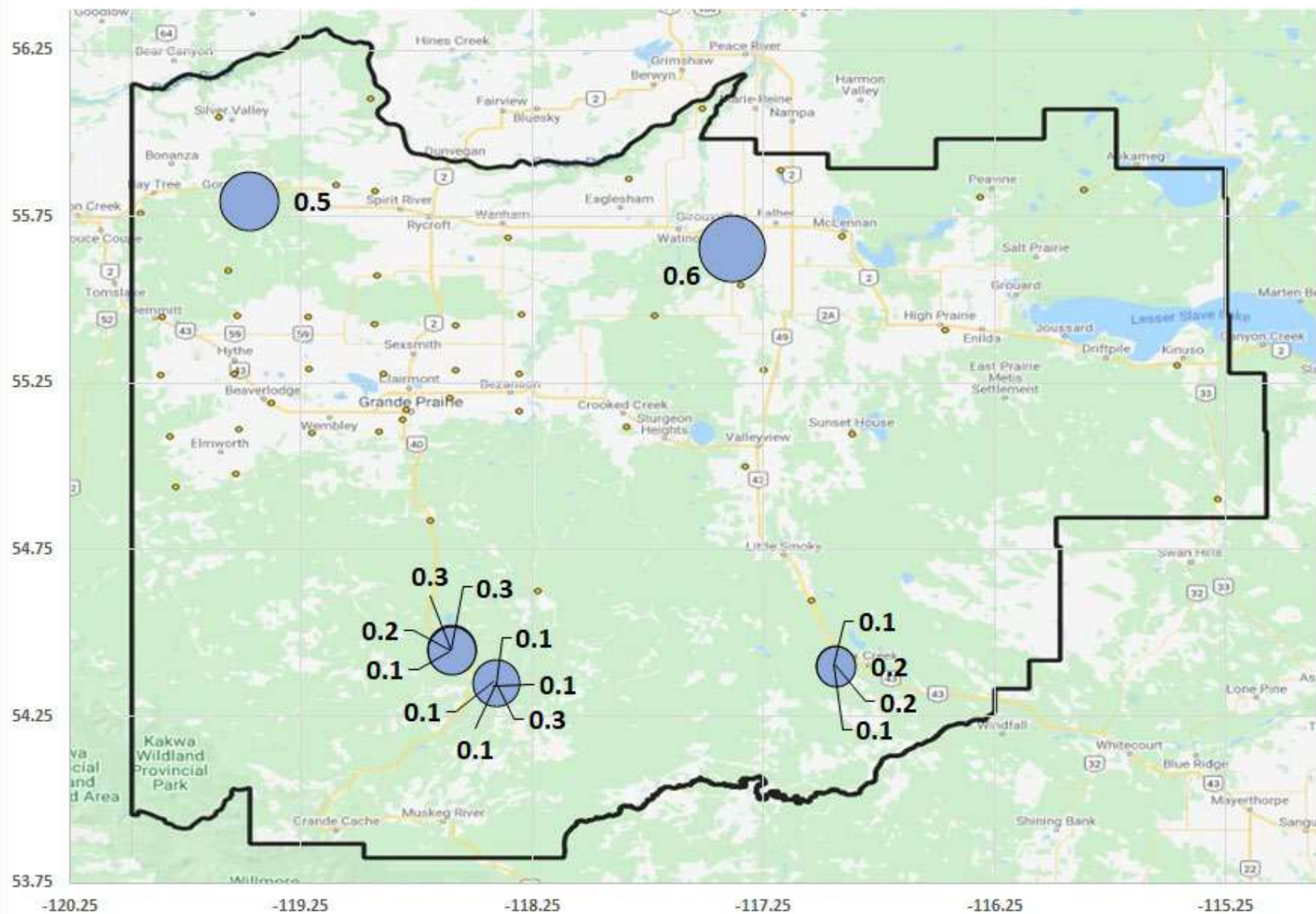
NO₂ Monthly Average (units in ppb)



O₃ Monthly Average (units in ppb)



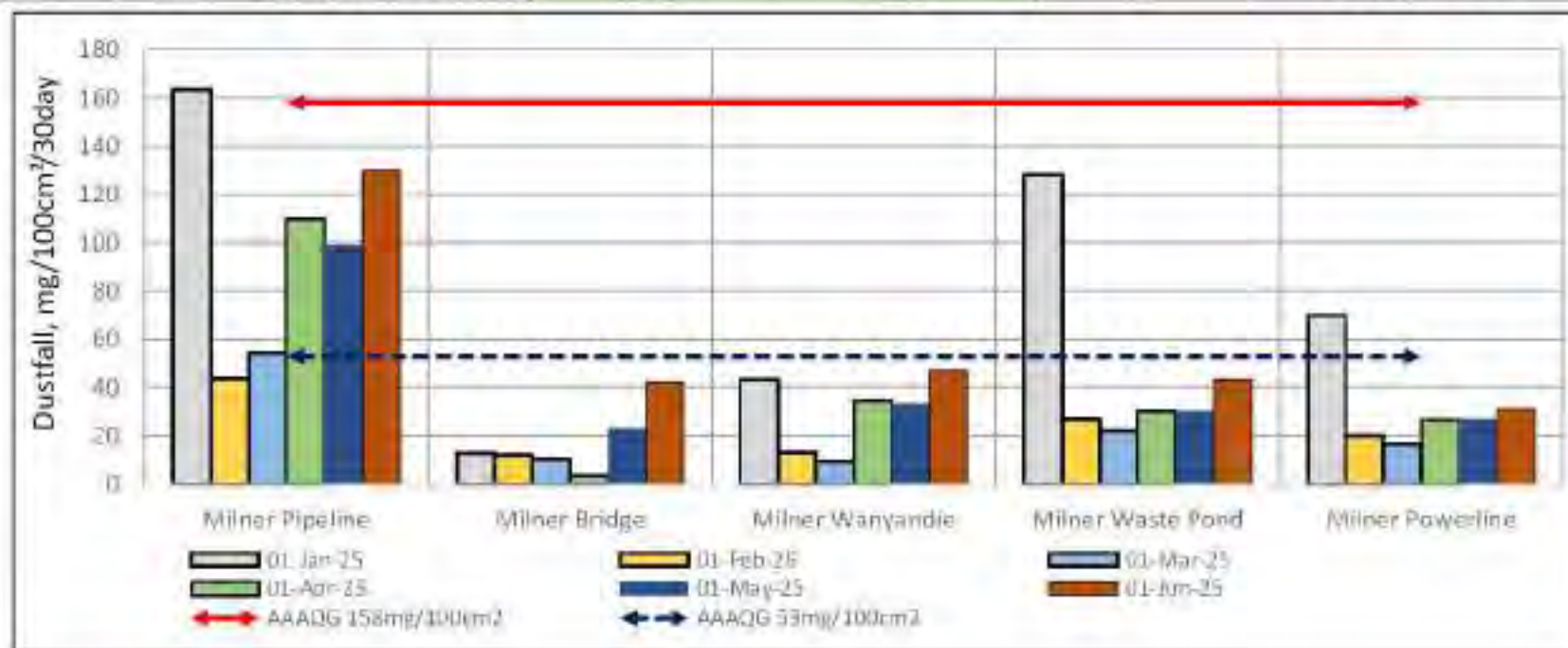
H₂S Monthly Average (units in ppb)



11 Dustfall Monitoring Data

Milner Dustfall Samples June 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
June	2025	Milner Pipeline	129.9	48.7	30	
June	2025	Milner Bridge	42.2	14.6	30	
June	2025	Milner Wanyandie	47.1	13.0	30	
June	2025	Milner Waste Pond	43.0	17.9	30	
June	2025	Milner Powerline	30.9	13.8	30	
June	2025	Milner Powerline Dup	30.0	11.4	30	RPD, 3% / 19%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

June 2025