



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

September 2024

October 31, 2024

Alberta Environment and Protected Areas

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

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

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

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

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

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

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

Continuous Monitoring:

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

Calibration and Data Submission:

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

Table A. PAZA members with Facility Operating Approvals

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

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

- There were 17 readings above the 24hr PM_{2.5} AAAQO, 159 readings above the 1hr PM_{2.5} AAAQG for the month

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

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Beaverlodge	432733	PM _{2.5}	6-Sep-24	12:00	13:00	180.4	21.9	273
Beaverlodge	432733	PM _{2.5}	6-Sep-24	13:00	14:00	243.2	25.0	265
Beaverlodge	432733	PM _{2.5}	6-Sep-24	14:00	15:00	269.9	13.7	291
Beaverlodge	432733	PM _{2.5}	6-Sep-24	15:00	16:00	282.2	13.9	298
Beaverlodge	432733	PM _{2.5}	6-Sep-24	16:00	17:00	265.8	14.4	296
Beaverlodge	432733	PM _{2.5}	6-Sep-24	17:00	18:00	261.7	5.4	278
Beaverlodge	432733	PM _{2.5}	6-Sep-24	18:00	19:00	256.3	13.8	291
Beaverlodge	432733	PM _{2.5}	6-Sep-24	19:00	20:00	271.9	13.0	299
Beaverlodge	432733	PM _{2.5}	6-Sep-24	20:00	21:00	197.0	14.7	296
Beaverlodge	432733	PM _{2.5}	6-Sep-24	21:00	22:00	159.2	12.3	287
Beaverlodge	432733	PM _{2.5}	6-Sep-24	22:00	23:00	182.8	4.9	193
Beaverlodge	432733	PM _{2.5}	7-Sep-24	23:00	00:00	187.2	3.2	145
Beaverlodge	432733	PM _{2.5}	7-Sep-24	00:00	01:00	165.6	1.1	134
Beaverlodge	432733	PM _{2.5}	7-Sep-24	01:00	02:00	131.9	1.7	209
Beaverlodge	432733	PM _{2.5}	7-Sep-24	02:00	03:00	134.6	4.1	62
Beaverlodge	432733	PM _{2.5}	7-Sep-24	03:00	04:00	106.9	2.9	184
Beaverlodge	432733	PM _{2.5}	7-Sep-24	04:00	05:00	101.9	3.5	35
Beaverlodge	432733	PM _{2.5}	7-Sep-24	05:00	06:00	102.6	1.8	152
Beaverlodge	432733	PM _{2.5}	7-Sep-24	10:00	11:00	90.6	2.1	204
Beaverlodge	432733	PM _{2.5}	7-Sep-24	11:00	12:00	234.2	15.3	253
Beaverlodge	432733	PM _{2.5}	7-Sep-24	12:00	13:00	273.4	25.3	257
Beaverlodge	432733	PM _{2.5}	7-Sep-24	13:00	14:00	256.0	22.6	260
Beaverlodge	432733	PM _{2.5}	7-Sep-24	14:00	15:00	219.3	24.7	251
Beaverlodge	432733	PM _{2.5}	7-Sep-24	15:00	16:00	151.2	22.1	273
Beaverlodge	432733	PM _{2.5}	7-Sep-24	16:00	17:00	139.2	16.3	288
Beaverlodge	432733	PM _{2.5}	7-Sep-24	17:00	18:00	153.8	11.0	300
Beaverlodge	432733	PM _{2.5}	7-Sep-24	18:00	19:00	154.4	4.9	332
Beaverlodge	432733	PM _{2.5}	7-Sep-24	19:00	20:00	163.3	4.7	6
Beaverlodge	432733	PM _{2.5}	7-Sep-24	20:00	21:00	153.1	9.3	318
Beaverlodge	432733	PM _{2.5}	7-Sep-24	21:00	22:00	135.8	10.2	311
Beaverlodge	432733	PM _{2.5}	7-Sep-24	22:00	23:00	123.8	2.9	213
Beaverlodge	432733	PM _{2.5}	8-Sep-24	23:00	00:00	95.7	1.9	151
Beaverlodge	432733	PM _{2.5}	8-Sep-24	00:00	01:00	86.4	3.5	69
Beaverlodge	432733	PM _{2.5}	8-Sep-24	18:00	19:00	88.1	16.9	351
Beaverlodge	432733	PM _{2.5}	8-Sep-24	19:00	20:00	105.1	16.7	354
Dunes	432734	PM _{2.5}	6-Sep-24	14:00	15:00	85.4	4.5	278
Dunes	432734	PM _{2.5}	6-Sep-24	15:00	16:00	113.4	3.6	312
Dunes	432734	PM _{2.5}	6-Sep-24	16:00	17:00	191.3	2.8	319
Dunes	432734	PM _{2.5}	6-Sep-24	17:00	18:00	170.6	1.5	293
Dunes	432734	PM _{2.5}	6-Sep-24	18:00	19:00	157.2	0.7	148
Dunes	432734	PM _{2.5}	6-Sep-24	19:00	20:00	153.2	1.1	225
Dunes	432734	PM _{2.5}	6-Sep-24	20:00	21:00	152.3	2.5	232
Dunes	432734	PM _{2.5}	6-Sep-24	21:00	22:00	151.3	3.8	210
Dunes	432734	PM _{2.5}	6-Sep-24	22:00	23:00	153.1	4.3	210
Dunes	432734	PM _{2.5}	7-Sep-24	23:00	00:00	146.2	3.3	210
Dunes	432734	PM _{2.5}	7-Sep-24	00:00	01:00	147.2	3.1	204
Dunes	432734	PM _{2.5}	7-Sep-24	01:00	02:00	144.6	1.0	219

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Dunes	432734	PM _{2.5}	7-Sep-24	02:00	03:00	137.3	0.2	315
Dunes	432734	PM _{2.5}	7-Sep-24	03:00	04:00	137.9	2.3	199
Dunes	432734	PM _{2.5}	7-Sep-24	04:00	05:00	132.1	1.2	219
Dunes	432734	PM _{2.5}	7-Sep-24	05:00	06:00	120.3	1.4	203
Dunes	432734	PM _{2.5}	7-Sep-24	06:00	07:00	105.3	2.1	187
Dunes	432734	PM _{2.5}	7-Sep-24	07:00	08:00	94.9	1.7	205
Dunes	432734	PM _{2.5}	7-Sep-24	13:00	14:00	90.9	5.8	255
Dunes	432734	PM _{2.5}	7-Sep-24	14:00	15:00	91.4	6.9	239
Dunes	432734	PM _{2.5}	7-Sep-24	15:00	16:00	104.7	5.0	276
Dunes	432734	PM _{2.5}	7-Sep-24	20:00	21:00	86.5	0.7	190
Dunes	432734	PM _{2.5}	7-Sep-24	22:00	23:00	90.2	1.2	212
Henry Pirker	432736	PM _{2.5}	6-Sep-24	12:00	13:00	85.9	4.9	181
Henry Pirker	432736	PM _{2.5}	6-Sep-24	13:00	14:00	139.9	3.1	117
Henry Pirker	432736	PM _{2.5}	6-Sep-24	14:00	15:00	184.9	6.5	77
Henry Pirker	432736	PM _{2.5}	6-Sep-24	15:00	16:00	244.7	10.0	56
Henry Pirker	432736	PM _{2.5}	6-Sep-24	16:00	17:00	263.7	8.3	61
Henry Pirker	432736	PM _{2.5}	6-Sep-24	17:00	18:00	256.6	10.4	82
Henry Pirker	432736	PM _{2.5}	6-Sep-24	18:00	19:00	270.6	3.7	89
Henry Pirker	432736	PM _{2.5}	6-Sep-24	19:00	20:00	288.1	1.6	239
Henry Pirker	432736	PM _{2.5}	6-Sep-24	20:00	21:00	258.7	5.0	209
Henry Pirker	432736	PM _{2.5}	6-Sep-24	21:00	22:00	221.0	5.5	213
Henry Pirker	432736	PM _{2.5}	6-Sep-24	22:00	23:00	194.5	5.5	202
Henry Pirker	432736	PM _{2.5}	7-Sep-24	23:00	00:00	193.4	4.8	220
Henry Pirker	432736	PM _{2.5}	7-Sep-24	00:00	01:00	187.7	1.9	204
Henry Pirker	432736	PM _{2.5}	7-Sep-24	01:00	02:00	190.6	1.6	353
Henry Pirker	432736	PM _{2.5}	7-Sep-24	02:00	03:00	192.1	0.3	11
Henry Pirker	432736	PM _{2.5}	7-Sep-24	03:00	04:00	191.7	0.5	225
Henry Pirker	432736	PM _{2.5}	7-Sep-24	04:00	05:00	178.6	1.4	151
Henry Pirker	432736	PM _{2.5}	7-Sep-24	05:00	06:00	132.9	2.7	274
Henry Pirker	432736	PM _{2.5}	7-Sep-24	06:00	07:00	93.4	1.6	199
Henry Pirker	432736	PM _{2.5}	7-Sep-24	11:00	12:00	131.1	6.6	204
Henry Pirker	432736	PM _{2.5}	7-Sep-24	12:00	13:00	193.4	6.2	190
Henry Pirker	432736	PM _{2.5}	7-Sep-24	13:00	14:00	229.4	3.4	174
Henry Pirker	432736	PM _{2.5}	7-Sep-24	14:00	15:00	201.7	5.0	168
Henry Pirker	432736	PM _{2.5}	7-Sep-24	15:00	16:00	136.8	4.7	125
Henry Pirker	432736	PM _{2.5}	7-Sep-24	16:00	17:00	115.8	5.3	92
Henry Pirker	432736	PM _{2.5}	7-Sep-24	17:00	18:00	112.8	10.6	57
Henry Pirker	432736	PM _{2.5}	7-Sep-24	18:00	19:00	122.2	12.2	68
Henry Pirker	432736	PM _{2.5}	7-Sep-24	19:00	20:00	151.6	11.5	67
Henry Pirker	432736	PM _{2.5}	7-Sep-24	20:00	21:00	165.8	7.2	97
Henry Pirker	432736	PM _{2.5}	7-Sep-24	21:00	22:00	150.1	3.5	154
Henry Pirker	432736	PM _{2.5}	7-Sep-24	22:00	23:00	133.8	3.6	142
Henry Pirker	432736	PM _{2.5}	8-Sep-24	23:00	00:00	114.8	4.5	145
Henry Pirker	432736	PM _{2.5}	8-Sep-24	00:00	01:00	90.2	1.8	151
Henry Pirker	432736	PM _{2.5}	8-Sep-24	01:00	02:00	85.7	0.8	126
Henry Pirker	432736	PM _{2.5}	8-Sep-24	02:00	03:00	84.9	0.7	59
Henry Pirker	432736	PM _{2.5}	8-Sep-24	03:00	04:00	90.9	2.1	140
Henry Pirker	432736	PM _{2.5}	8-Sep-24	04:00	05:00	93.3	0.7	305
Henry Pirker	432736	PM _{2.5}	8-Sep-24	05:00	06:00	92.7	0.3	56
Henry Pirker	432736	PM _{2.5}	8-Sep-24	06:00	07:00	86.5	0.9	178
Henry Pirker	432736	PM _{2.5}	8-Sep-24	07:00	08:00	89.7	1.3	60
Henry Pirker	432736	PM _{2.5}	8-Sep-24	08:00	09:00	83.0	1.0	201
Henry Pirker	432736	PM _{2.5}	8-Sep-24	09:00	10:00	84.3	1.4	245
Smoky Heights	432738	PM _{2.5}	6-Sep-24	12:00	13:00	81.8	18.0	248

Site	reference	Pollutant	Date	From MST	To MST	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	432738	PM _{2.5}	6-Sep-24	13:00	14:00	163.2	29.0	265
Smoky Heights	432738	PM _{2.5}	6-Sep-24	14:00	15:00	152.5	22.0	264
Smoky Heights	432738	PM _{2.5}	6-Sep-24	15:00	16:00	184.9	18.4	255
Smoky Heights	432738	PM _{2.5}	6-Sep-24	16:00	17:00	232.9	12.7	239
Smoky Heights	432738	PM _{2.5}	6-Sep-24	17:00	18:00	251.8	8.9	245
Smoky Heights	432738	PM _{2.5}	6-Sep-24	18:00	19:00	223.8	9.2	226
Smoky Heights	432738	PM _{2.5}	6-Sep-24	19:00	20:00	203.2	10.0	205
Smoky Heights	432738	PM _{2.5}	6-Sep-24	20:00	21:00	183.0	7.8	226
Smoky Heights	432738	PM _{2.5}	6-Sep-24	21:00	22:00	167.9	4.6	258
Smoky Heights	432738	PM _{2.5}	6-Sep-24	22:00	23:00	143.4	8.2	243
Smoky Heights	432738	PM _{2.5}	7-Sep-24	23:00	00:00	117.8	10.7	254
Smoky Heights	432738	PM _{2.5}	7-Sep-24	00:00	01:00	112.4	10.4	248
Smoky Heights	432738	PM _{2.5}	7-Sep-24	01:00	02:00	103.1	11.3	270
Smoky Heights	432738	PM _{2.5}	7-Sep-24	02:00	03:00	97.9	7.2	238
Smoky Heights	432738	PM _{2.5}	7-Sep-24	03:00	04:00	97.7	5.9	223
Smoky Heights	432738	PM _{2.5}	7-Sep-24	04:00	05:00	105.9	9.4	206
Smoky Heights	432738	PM _{2.5}	7-Sep-24	05:00	06:00	116.7	8.1	242
Smoky Heights	432738	PM _{2.5}	7-Sep-24	06:00	07:00	103.4	8.8	243
Smoky Heights	432738	PM _{2.5}	7-Sep-24	07:00	08:00	109.5	7.6	225
Smoky Heights	432738	PM _{2.5}	7-Sep-24	08:00	09:00	89.3	8.3	229
Smoky Heights	432738	PM _{2.5}	7-Sep-24	12:00	13:00	122.7	14.8	222
Smoky Heights	432738	PM _{2.5}	7-Sep-24	13:00	14:00	114.6	21.3	261
Smoky Heights	432738	PM _{2.5}	7-Sep-24	20:00	21:00	96.8	6.3	258
Smoky Heights	432738	PM _{2.5}	7-Sep-24	22:00	23:00	81.2	7.3	260
Smoky Heights	432738	PM _{2.5}	8-Sep-24	23:00	00:00	83.0	5.6	259
Smoky Heights	432738	PM _{2.5}	8-Sep-24	00:00	01:00	88.0	6.4	214
Smoky Heights	432738	PM _{2.5}	8-Sep-24	01:00	02:00	90.1	5.3	231
Smoky Heights	432738	PM _{2.5}	8-Sep-24	02:00	03:00	90.2	0.6	262
Smoky Heights	432738	PM _{2.5}	8-Sep-24	03:00	04:00	84.5	4.0	217
Happy Valley	432735	PM _{2.5}	6-Sep-24	06:00	07:00	271.6	14.1	252
Happy Valley	432735	PM _{2.5}	6-Sep-24	07:00	08:00	262.4	11.5	247
Happy Valley	432735	PM _{2.5}	6-Sep-24	08:00	09:00	214.7	10.5	241
Happy Valley	432735	PM _{2.5}	6-Sep-24	09:00	10:00	222.8	11.6	244
Happy Valley	432735	PM _{2.5}	6-Sep-24	15:00	16:00	168.5	11.6	244
Happy Valley	432735	PM _{2.5}	6-Sep-24	16:00	17:00	142.0	13.6	251
Happy Valley	432735	PM _{2.5}	6-Sep-24	17:00	18:00	124.5	8.1	243
Happy Valley	432735	PM _{2.5}	6-Sep-24	18:00	19:00	182.7	5.2	237
Happy Valley	432735	PM _{2.5}	6-Sep-24	19:00	20:00	197.7	7.4	246
Happy Valley	432735	PM _{2.5}	6-Sep-24	20:00	21:00	213.2	10.2	240
Happy Valley	432735	PM _{2.5}	6-Sep-24	21:00	22:00	258.3	10.6	242
Happy Valley	432735	PM _{2.5}	6-Sep-24	22:00	23:00	215.2	11.2	244
Happy Valley	432735	PM _{2.5}	7-Sep-24	23:00	00:00	135.1	9.6	243
Happy Valley	432735	PM _{2.5}	7-Sep-24	00:00	01:00	122.8	10.3	245
Happy Valley	432735	PM _{2.5}	7-Sep-24	01:00	02:00	93.4	11.1	251
Happy Valley	432735	PM _{2.5}	7-Sep-24	02:00	03:00	93.2	6.5	239
Happy Valley	432735	PM _{2.5}	7-Sep-24	03:00	04:00	119.0	6.9	234
Happy Valley	432735	PM _{2.5}	7-Sep-24	04:00	05:00	131.3	6.5	236
Happy Valley	432735	PM _{2.5}	7-Sep-24	05:00	06:00	262.3	7.4	246
Happy Valley	432735	PM _{2.5}	7-Sep-24	06:00	07:00	275.0	8.2	250
Happy Valley	432735	PM _{2.5}	7-Sep-24	07:00	08:00	247.5	8.2	244
Happy Valley	432735	PM _{2.5}	7-Sep-24	08:00	09:00	212.3	18.0	250
Happy Valley	432735	PM _{2.5}	7-Sep-24	09:00	10:00	147.5	22.5	252
Happy Valley	432735	PM _{2.5}	7-Sep-24	10:00	11:00	112.9	23.3	254
Happy Valley	432735	PM _{2.5}	7-Sep-24	18:00	19:00	103.5	6.0	240

Site	reference	Pollutant	Date	From MST	To MST	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Happy Valley	432735	PM _{2.5}	7-Sep-24	19:00	20:00	143.5	5.8	252
Happy Valley	432735	PM _{2.5}	7-Sep-24	20:00	21:00	128.5	4.8	243
Happy Valley	432735	PM _{2.5}	7-Sep-24	21:00	22:00	93.7	8.6	246
Happy Valley	432735	PM _{2.5}	8-Sep-24	18:00	19:00	95.4	6.2	312

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

Site	reference	Pollutant	Date	Average $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	432733	PM _{2.5}	6-Sep-24	123.6	8.5	279
Beaverlodge	432733	PM _{2.5}	7-Sep-24	138.4	8.4	269
Beaverlodge	432733	PM _{2.5}	8-Sep-24	60.4	7.6	338
Dunes	432734	PM _{2.5}	6-Sep-24	70.0	2.6	237
Dunes	432734	PM _{2.5}	7-Sep-24	94.2	2.5	230
Dunes	432734	PM _{2.5}	8-Sep-24	42.7	2.6	314
Henry Pirker	432736	PM _{2.5}	6-Sep-24	115.0	4.4	139
Henry Pirker	432736	PM _{2.5}	7-Sep-24	138.3	4.6	133
Henry Pirker	432736	PM _{2.5}	8-Sep-24	68.1	4.1	319
Smoky Heights	432738	PM _{2.5}	6-Sep-24	92.9	11.4	242
Smoky Heights	432738	PM _{2.5}	7-Sep-24	81.2	11.6	246
Smoky Heights	432738	PM _{2.5}	8-Sep-24	44.3	6.7	298
Fox Creek	432761	PM _{2.5}	7-Sep-24	46.2	3.2	206
Fox Creek	432761	PM _{2.5}	8-Sep-24	30.8	3.3	173
Happy Valley	432735	PM _{2.5}	6-Sep-24	142.2	10.9	245
Happy Valley	432735	PM _{2.5}	7-Sep-24	111.3	11.6	252
Happy Valley	432735	PM _{2.5}	8-Sep-24	44.0	7.6	300

Readings above the industrial dustfall monthly AAAQG ($158\text{mg}/100\text{cm}^2/30\text{d}$) recorded as:

Site	reference	Pollutant	Date	Average $\text{mg}/100\text{cm}^2/30\text{d}$
Milner Pipeline	434535	Total Dustfall	September 2024	161.3

Operational times less than 90 percent

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

Air Incidents

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

Deviations from Authorized Monitoring Methods

None were reported.

Passive Monitoring

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

There were 19 duplicates sampled in the month of September:

- Eight SO₂ duplicates located at Steeprock Creek, Hythe, Wanham, McLennan, Duvernay 1, Kakwa 3, Milner Wanyandie, Jayar5 Camp

- o RPD ranging from 0% to 44% (no fail; but Milner Wanyandie site both samples were <0.1ppb)
- One O₃ duplicate located at Kinuso
 - o RPD 13% (no fails)
- Seven NO₂ duplicates at Poplar, Eaglesham, Pinto Creek, Kinuso, Kakwa 2, Milner Pipeline, Jayar4, 7-8 or 8-8 Pad
 - o RPD ranging from 7% to 40% (no fails)
- Four H₂S duplicates at Duvernay 1, Kakwa 4, Girouxville 3, Jayar1 Plant
 - o RPD ranging from 9% to 22% (no fails)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 32.8 to 161.3 mg/100cm²/30day
 - o One reading at Milner Pipeline was >158 mg/100cm²/30day, reference 434535
- RPD ranged from 0% to 9% (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.

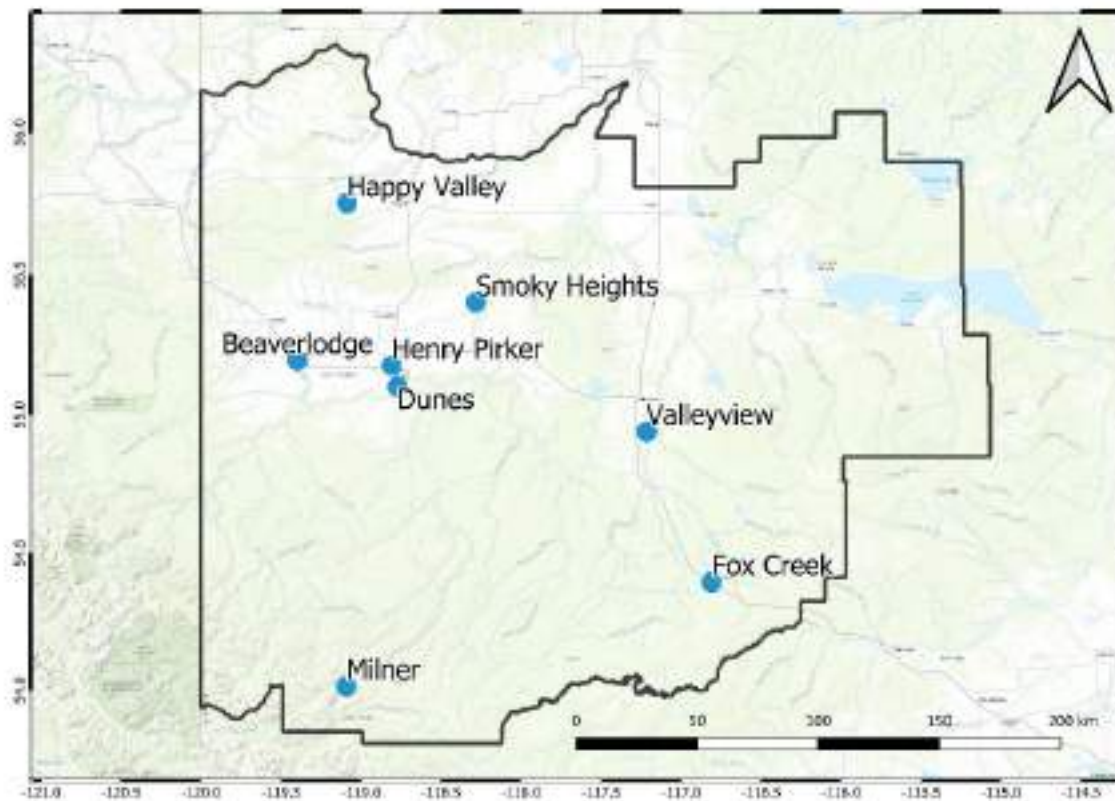


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

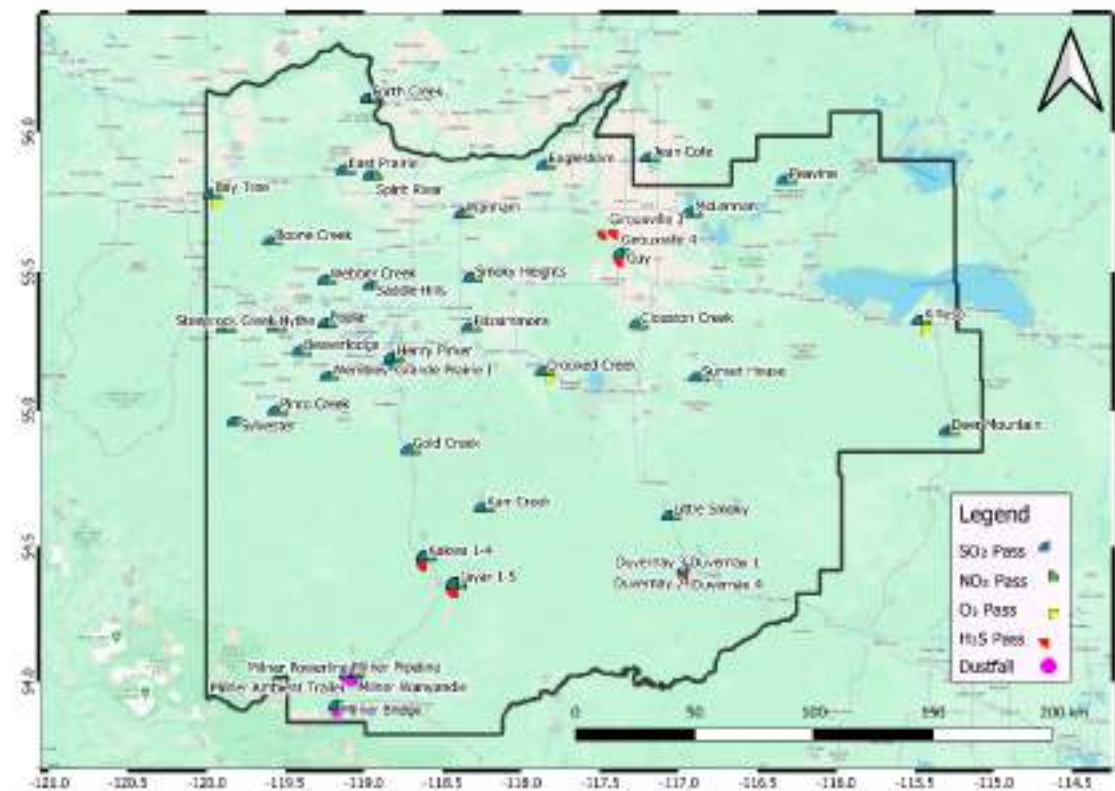
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 September 2024 Monthly Station Summaries

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

1.1 Beaverlodge Air Monitoring Station

PAZA - September 2024 Beaverlodge Station Report

Parameter	September		Valid	Operational	Max	1-hour		Max	24-hour		Max Day	Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time		Objective	Max Day		1hr	8hr	24hr	30d	
NO (ppb)	0.3	0.0	94.9%	100.0%	17.1	-	Sep-11 08:00	2.3	-	Sep-11	-	-	-	-	-	Sep 03, 2024
NO ₂ (ppb)	2.6	0.2	94.9%	100.0%	15.8	159	Sep-01 03:00	6.9	-	Sep-11	0	-	-	-	-	Sep 03, 2024
NO _x (ppb)	3.0	0.2	94.8%	100.0%	27.8	-	Sep-11 08:00	6.9	-	Sep-11	-	-	-	-	-	Sep 03, 2024
O ₃ (ppb)	27.8	1.9	93.0%	99.7%	49.6	78	Sep-09 02:00	34.6	-	Sep-28	0	-	-	-	-	Sep 04, 2024
PM ₁₀ (µg/m ³)	14.2	0.3	93.6%	100.0%	282.3	80	Sep-06 16:00	136.4	29	Sep-07	25	-	1	-	-	Sep 04, 2024
SO ₂ (ppb)	0.1	0.0	93.1%	99.0%	6.5	172	Sep-18 09:00	1.0	48	Sep-12	0	-	0	0	-	Sep 04, 2024
Average	11.1	1.3	95.4%	99.6%	29.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 98%										
Temp (°C)	12.1	1.3	95.4%	99.6%	29.9											
RH (%)	57.5	14.7	100.0%	100.0%	98.9											
WS (km/hr)	16.8	0.3	100.0%	100.0%	52.7											
WD (deg)	290	1.9	100.0%	100.0%	354.3											
Average Wind Direction										260	W					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42iQ	No Operational issues noted during the month
O ₃	Thermo	49iQ	Sept 3, shift in data noted during calibration of nitrogen, 2hrs removed
PM ₁₀	API	T640	Sept 6 to 8, 35x2hr readings above AAQGS and 3x24hr readings above AAQGS
SO ₂	Thermo	43i-TLE	Sept 3, shift in data noted during calibration of nitrogen, 3hr removed
Met Equip	MetOne	50.5	For ET, daily drop removed every day 04:23-04:43 (30hrs); Sept 4 additional 3hrs removed due to data shift

1.2 Dunes Air Monitoring Station

PAZA - September 2024 Dunes Station Report

Parameter	September		Valid	Operational	Max	1-hour		Max	24-hour		Max Day	Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time		Objective	Max Day		1hr	8hr	24hr	30d	
PM ₁₀ (µg/m ³)	9.2	0.0	93.4%	99.0%	181.5	80	Sep-06 17:00	94.2	29	Sep-07	23	-	1	-	-	Sep-13-2024
SO ₂ (ppb)	0.5	0.0	93.3%	100.0%	11.8	172	Sep-13 21:00	1.8	48	Sep-15	0	-	0	0	-	Sep-13-2024
TRS (ppb)	0.5	0.0	93.3%	100.0%	4.4	10	Sep-01 00:00	1.3	1	Sep-23	0	-	0	-	-	Sep-13-2024
Average	12.6	-1.7	100.0%	100.0%	51.1	Note: Valid hours must be greater than 75% Operational hours must be greater than 98%										
Temp (°C)	12.6	-1.7	100.0%	100.0%	51.1											
RH (%)	83.6	18.8	100.0%	100.0%	99.9											
WS (km/hr)	9.1	0.1	100.0%	100.0%	13.8											
WD (deg)	240	4.0	100.0%	100.0%	359.5											
Average Wind Direction										240	WSW					

Update Summary:

Parameter	Make	Model	Equipment summary
PM ₁₀	Thermo	SHAEP 5030	Sept 6 to 8, 23x2hr readings above AAQGS and 3x24hr readings above AAQGS; Sept 30, excessive negative drift removed, 3hr
SO ₂	Thermo	43i	No Operational issues noted during the month
TRS	Thermo	43i	No Operational issues noted during the month
Met Equip	GI/RM/Young	MetPak/RMY86004	No Operational issues noted during the month

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - September 2024 Henry Pirker Station Report

Parameter	September				1-hour			8-hour / 24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	1.5	0.0	93.0%	100.0%	48.6	-	Sep-26 08:00	5.8	-	Sep-13	-	-	-	-	Sep 05, 2024
NO ₂ (ppb)	6.0	0.8	93.0%	100.0%	30.3	139	Sep-26 08:00	9.6	-	Sep-08	0	-	-	-	Sep 05, 2024
NO _x (ppb)	7.6	1.0	93.0%	100.0%	79.1	-	Sep-26 08:00	12.7	-	Sep-08	-	-	-	-	Sep 05, 2024
O ₃ (ppb)	23.7	0.7	93.4%	100.0%	74.2	76	Sep-06 15:00	31.5	-	Sep-03	0	-	-	-	Sep 05, 2024
PM _{2.5} (µg/m ³)	14.8	0.4	99.7%	100.0%	288.1	80	Sep-06 20:00	138.1	29	Sep-07	42	-	1	-	Sep 04, 2024
SO ₂ (ppb)	0.2	0.0	94.7%	100.0%	14.9	172	Sep-07 09:00	1.3	40	Sep-08	0	-	0	0	Sep 04, 2024
H ₂ S (ppb)	0.2	0.0	93.3%	100.0%	2.2	10	Sep-07 23:00	0.5	3	Sep-06	0	-	0	-	Sep 04, 2024
CH ₄ (ppm)	2.1	1.9	91.3%	95.7%	3.5	-	Sep-06 02:00	2.4	-	Sep-06	-	-	-	-	Sep 26, 2024
THC (ppm)	2.1	1.9	91.3%	95.7%	4.9	-	Sep-06 12:00	2.4	-	Sep-06	-	-	-	-	Sep 26, 2024
NMHC (ppm)	0.0	0.0	91.3%	95.7%	2.7	-	Sep-06 12:00	0.3	-	Sep-06	-	-	-	-	Sep 26, 2024
CO (ppm)	0.2	0.1	93.3%	100.0%	1.1	13	Sep-06 20:00	0.6	5	Sep-07	0	0	-	-	Sep 25, 2024
Average	11.7	0.5	106.0%	100.0%	32.1	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									May 21, 2024
Temp (°C)	11.7	0.5	106.0%	100.0%	32.1										May 21, 2024
Rel (%)	57.3	18.4	106.0%	100.0%	89.3										May 21, 2024
SR (W/m ²)	108.5	0.0	106.0%	100.0%	600.8										May 21, 2024
WS (km/hr)	5.1	0.1	106.0%	100.0%	20.0										May 21, 2024
WD (deg)	180	1.1	106.0%	100.0%	358.2										May 21, 2024
Average Wind Direction										180	5				

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No operational issues noted during the month
O ₃	TECO	43i	No operational issues noted during the month
PM _{2.5}	API	T640	Sep 6 to 8, 12x1hr readings above AAQGG and 3x24hr readings above AAQGG
SO ₂	Thermo	43i-TLE	No operational issues noted during the month
H ₂ S	TEI	450i	No operational issues noted during the month
THC/CH ₄ /NMHC	TEI	55i	Sep 18, data dropped to zero, 1hr removed; Sept 19 good span, Sept 20 span fail, data removed from last good span to calibration on Sept 20 (30hrs)
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 - September 2024 Smoky Heights Station Report

September 2024 Summary Report - Ambient Report															
Parameter	September				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	14hr	30d	
PM _{2.5} (µg/m ³)	11.1	0.0	93.0%	99.7%	251.8	80	Sep-06 18:00	92.9	29	Sep-06	30	-	1	-	Sep 19, 2024
SO ₂ (ppb)	0.2	0.0	93.0%	99.7%	5.7	172	Sep-26 04:00	0.8	40	Sep-30	0	-	0	0	Sep 19, 2024
TRP (ppb)	0.3	0.0	93.0%	99.7%	4.0	10	Sep-24 01:00	0.8	1	Sep-22	0	-	0	-	Sep 19, 2024
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.4	-1.5	99.7%	99.7%	30.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	11.5	0.6	93.7%	99.7%	49.0										
WD (deg)	249	1.1	93.7%	99.7%	359.8	Average Wind Direction 249 WNW									

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	Sep 6 to 8, 10x1hr readings above AAQGG and 3x24hr readings above AAQGG; Sept 19, removal calibration (SN7068) to replace unit (SNMCM-0271); Sept 23, power failure, 2hrs
SO ₂	TECO	43i	Sep 29, power failure, 2hrs
TRP	TEI	43i-APSA	Sep 29, power failure, 2hrs
Met Equip	MetOne	50.5	Sep 29, power failure, 2hrs

1.5 Valleyview Air Monitoring Station

PAZA - September 2024 Valleyview Station Report

September 2024 Valley View Station Report																	
Parameter	September					1-hour			24-hour			Exceedance				Calibration Date	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	14hr	30d			
SO ₂ (ppb)	0.1	0.0	95.4%	100.0%	1.6	172	Sep-25 10:00	0.3	48	Sep-26	0	-	0	0	Sep 11, 2024		
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.5	10	Sep-06 20:00	0.3	3	Sep-06	0	-	0	-	Sep 11, 2024		
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%											
Temp (°C)	12.3	-1.0	100.0%	100.0%	31.3												
RH (%)	75.6	25.4	100.0%	100.0%	100.1												
WS (km/hr)	2.8	0.1	100.0%	100.0%	15.2												
WD (deg)	238	0.1	100.0%	100.0%	380.0	Average Wind Direction										238	NW

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	431-A75CB	No operational issues noted during the month
H ₂ S	TEI	450i-APHA4 / 43C	No operational issues noted during the month
Met Equip	RMYoung	RMFB6004	No operational issues noted during the month

1.6 Fox Creek Air Monitoring Station

PAZA - September 2024 Fox Creek Station Report

September					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	14hr	30d	Date
NO (ppb)	6.7	0.0	95.1%	100.0%	54.1	-	Sep-11 08:00	12.5	-	Sep-13	-	-	-	-	Sep 08, 2024
NO ₂ (ppb)	5.6	0.4	95.1%	100.0%	28.0	159	Sep-17 19:00	8.7	-	Sep-08	0	-	-	-	Sep 09, 2024
NO _x (ppb)	12.5	0.5	95.1%	100.0%	69.3	-	Sep-24 07:00	18.8	-	Sep-11	-	-	-	-	Sep 09, 2024
O ₃ (ppb)	17.2	0.0	95.3%	100.0%	49.0	76	Sep-07 17:00	25.7	-	Sep-09	0	-	-	-	Sep 10, 2024
PM _{2.5} (µg/m³)	8.0	0.7	99.6%	100.0%	70.7	80	Sep-07 18:00	95.2	29	Sep-07	0	-	3	-	Sep 08, 2024
SO ₂ (ppb)	0.3	0.0	95.1%	99.0%	11.0	172	Sep-05 10:00	0.8	48	Sep-05	0	-	0	0	Sep 08, 2024
H ₂ S (ppb)	0.2	0.0	91.0%	95.0%	1.7	10	Sep-12 09:00	0.4	3	Sep-18	0	-	0	-	Sep 08, 2024
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	12.4	-0.9	100.0%	100.0%	32.3										
WS (km/hr)	4.7	0.2	100.0%	100.0%	19.4										
WD (deg)	242	1.6	100.0%	100.0%	359.7	Average Wind Direction: 242 WSW									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	420Q	No operational issues noted during the month
O ₃	TECO	490	No operational issues noted during the month
PM _{2.5}	API	T640	Sep 7 to 8, 2x24hr readings above AAQ0
SO ₂	TEI	431-TLE	Sep 5, manual span check performed based on calibrations being performed (1hr)
H ₂ S	TEI	450i	Sep 5, span fail, data removed from last good span (Sept 8) to calibration on Sept 9 (32hrs removed)
Met Equip	MetOne	50.5	No operational issues noted during the month

1.7 Happy Valley Air Monitoring Station

PAZA - September 2024 Happy Valley Station Report

Parameter	September				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.3	0.0	95.1%	100.0%	5.4	-	Sep-06 09:00	0.8	-	Sep-11	-	-	-	-	Sep 05, 2024
NO ₂ (ppb)	1.6	0.2	95.1%	100.0%	8.7	159	Sep-06 09:00	3.6	-	Sep-11	0	-	-	-	Sep 05, 2024
NO _x (ppb)	1.9	0.2	95.1%	100.0%	14.2	-	Sep-06 09:00	4.4	-	Sep-11	-	-	-	-	Sep 05, 2024
O ₃ (ppb)	27.8	10.1	95.4%	100.0%	46.5	76	Sep-01 15:00	34.2	-	Sep-26	0	-	-	-	Sep 05, 2024
PM _{2.5} (µg/m ³)	13.9	0.3	99.3%	100.0%	275.0	80	Sep-07 07:00	142.2	29	Sep-08	29	-	1	-	Sep 06, 2024
SO ₂ (ppb)	0.3	0.0	95.3%	100.0%	6.1	172	Sep-21 09:00	0.8	48	Sep-10	0	-	0	0	Sep 05, 2024
TPS (ppb)	0.4	0.1	95.3%	100.0%	6.8	10	Sep-12 20:00	1.5	3	Sep-12	0	-	0	-	Sep 06, 2024
THC (ppm)	2.0	1.8	93.1%	100.0%	2.6	-	Sep-06 15:00	2.3	-	Sep-06	-	-	-	-	Sep 06, 2024
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	13.0	0.4	100.0%	100.0%	28.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (m/hr)	10.6	0.1	100.0%	100.0%	34.2										
WD (deg)	245	2.9	100.0%	100.0%	358.5	Average Wind Direction: 245 WSW									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	No operational issues during the month
O ₃	TEI	45i	No operational issues during the month
PM _{2.5}	API	T640	Sep 6 to 8, 29hr readings above AAQGS and 3x24hr readings above AAQGS
SO ₂	TEI	43i	No operational issues during the month
TPS	TEI	43i	No operational issues during the month
THC	TEI	55i / S11-LT	No operational issues during the month
Met Equip	MetOne	50.5	No operational issues during the month

1.8 Milner Air Monitoring Station

PAZA - September 2024 Milner Station Report

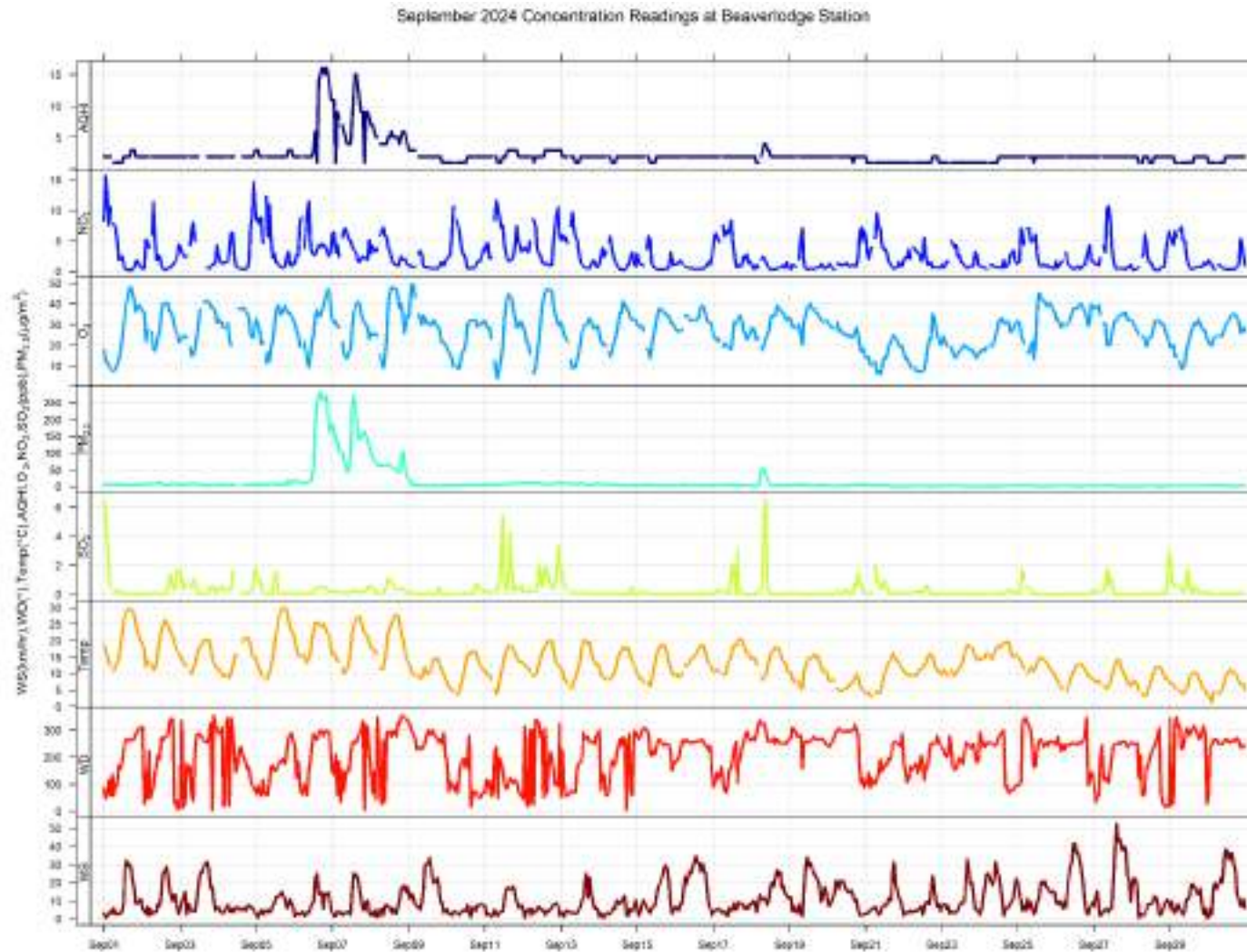
Parameter	September				1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.9	0.0	93.8%	98.6%	27.1	-	Sep-13 08:00	3.0	-	Sep-13	-	-	-	-	Sep 12, 2024
NO ₂ (ppb)	2.5	0.0	93.8%	98.6%	12.7	159	Sep-27 15:00	4.0	-	Sep-11	0	-	-	-	Sep 12, 2024
NO _x (ppb)	3.4	0.0	93.8%	98.6%	31.1	-	Sep-13 08:00	5.7	-	Sep-13	-	-	-	-	Sep 12, 2024
PM _{2.5} (µg/m ³)	6.0	0.3	98.2%	98.0%	69.8	80	Sep-09 02:00	21.0	29	Sep-08	0	-	0	-	Sep 12, 2024
	Average	Minimum	Valid	Operational	Maximum										
WS (m/hr)	6.8	0.1	98.0%	98.0%	27.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WD (deg)	206	5.0	98.6%	98.0%	359.8										

Update Summary:

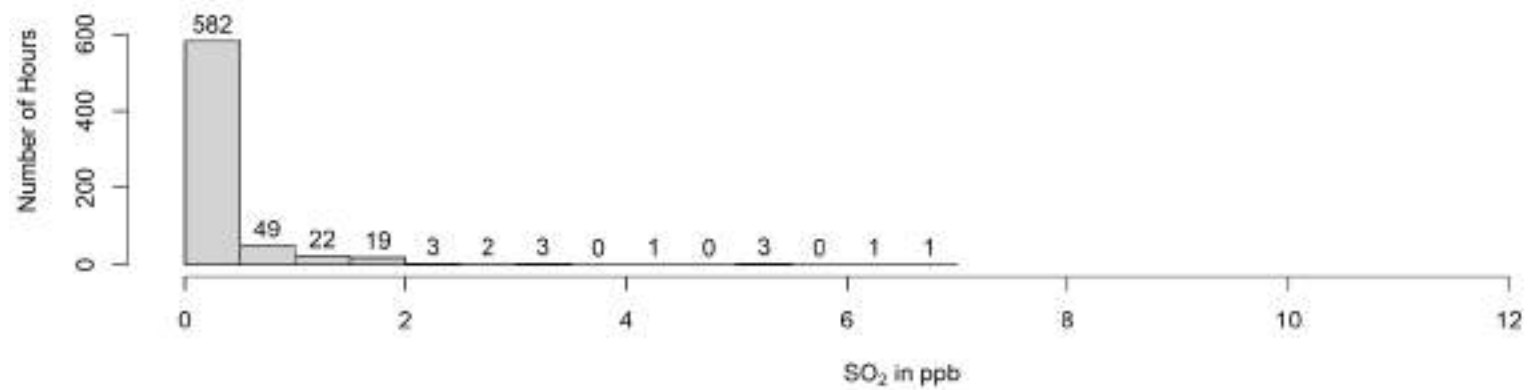
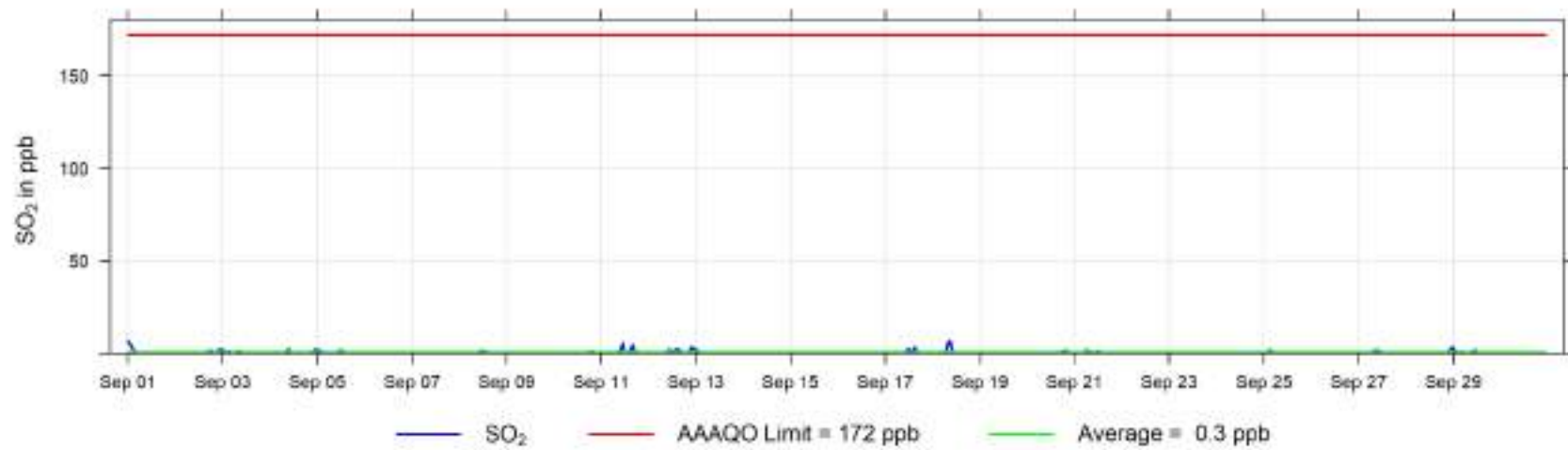
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Sep 2, communication failure, 10hrs removed
PM _{2.5}	API	T640	Sep 2, communication failure, 10hrs removed
Met Equip	MetOne	50.5	Sep 2, communication failure, 10hrs removed

2 Beaverlodge Charts

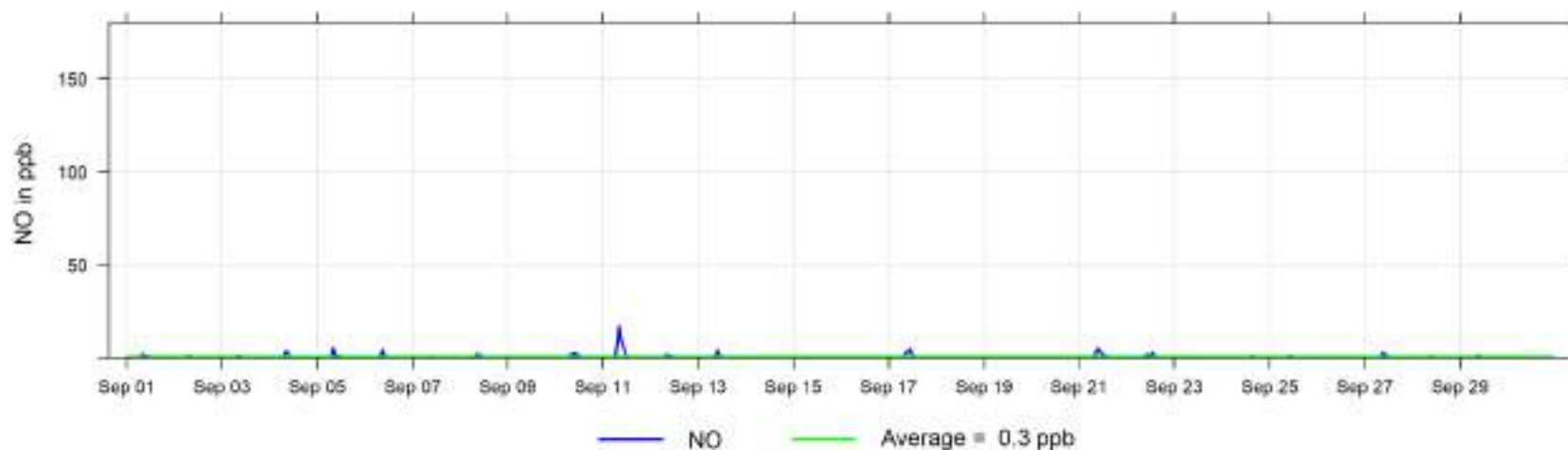
The following pages include the charts and histograms for Beaverlodge Station



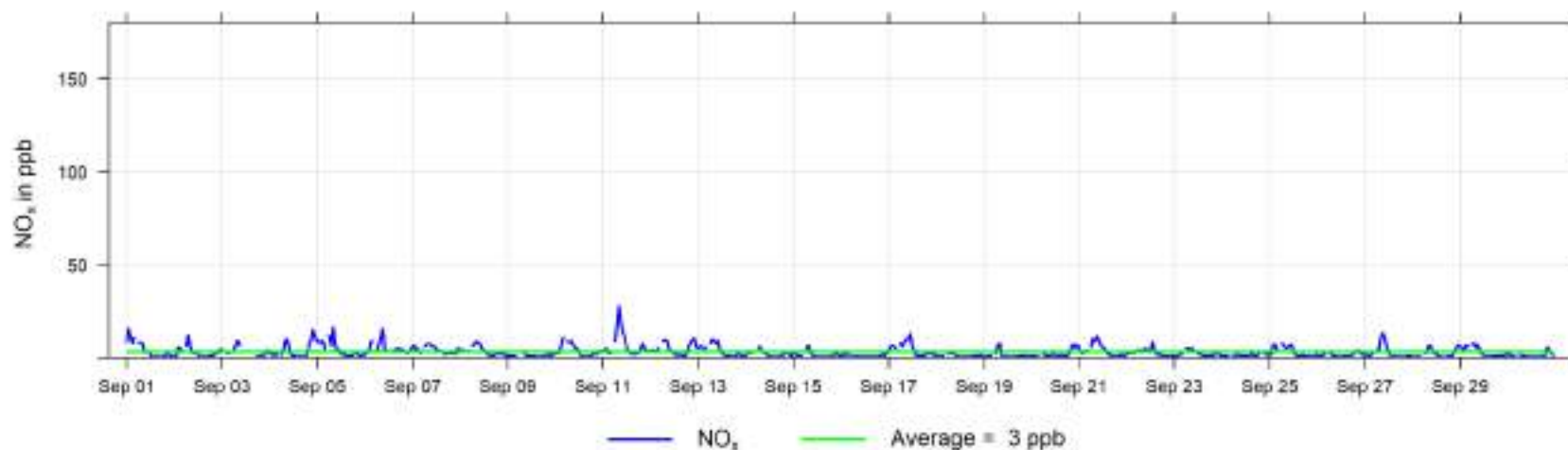
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



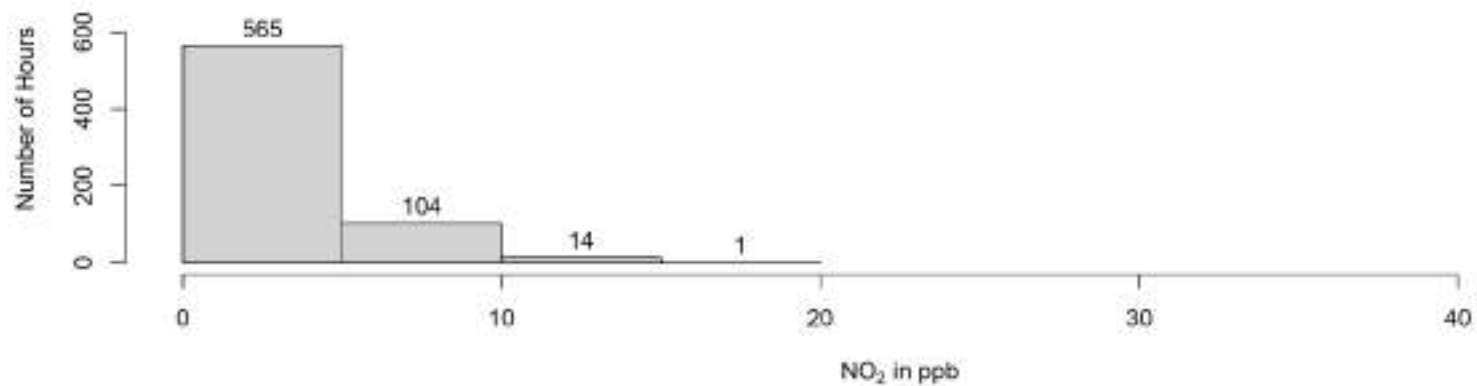
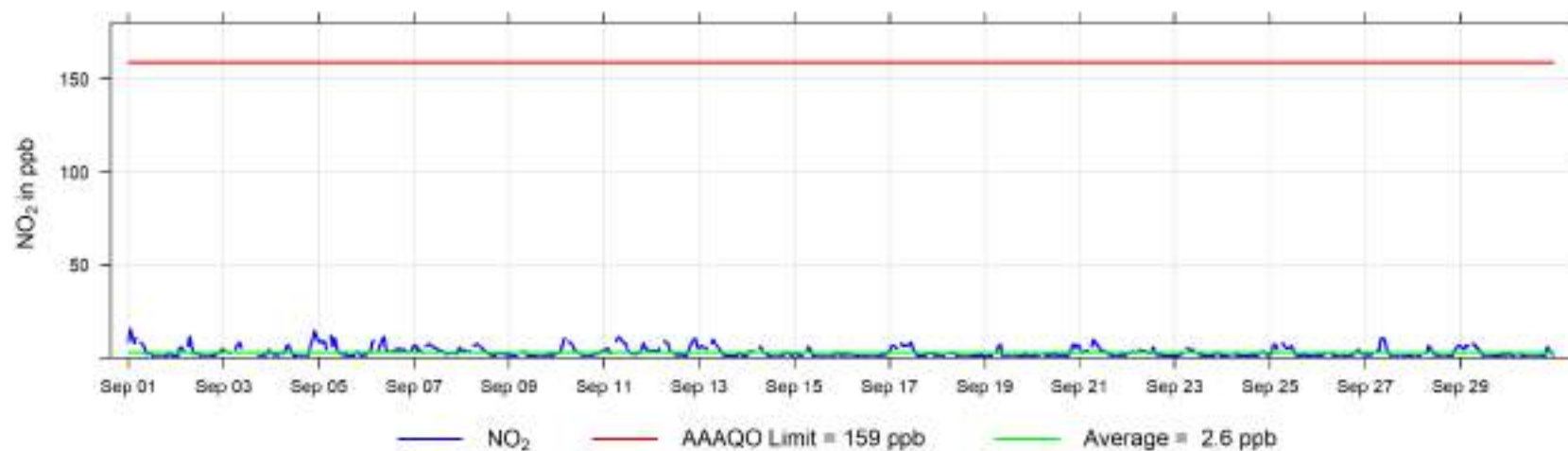
September 2024 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



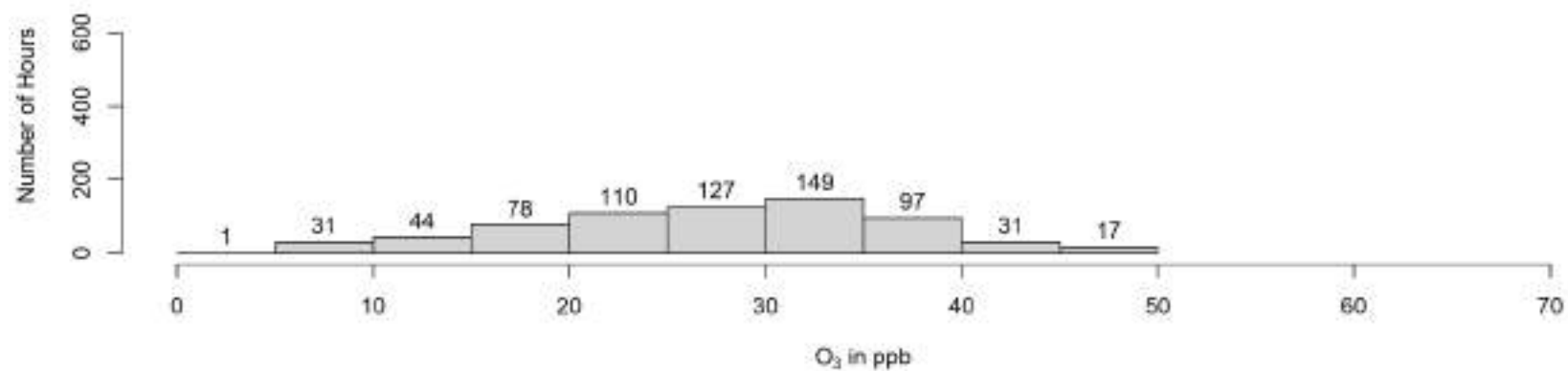
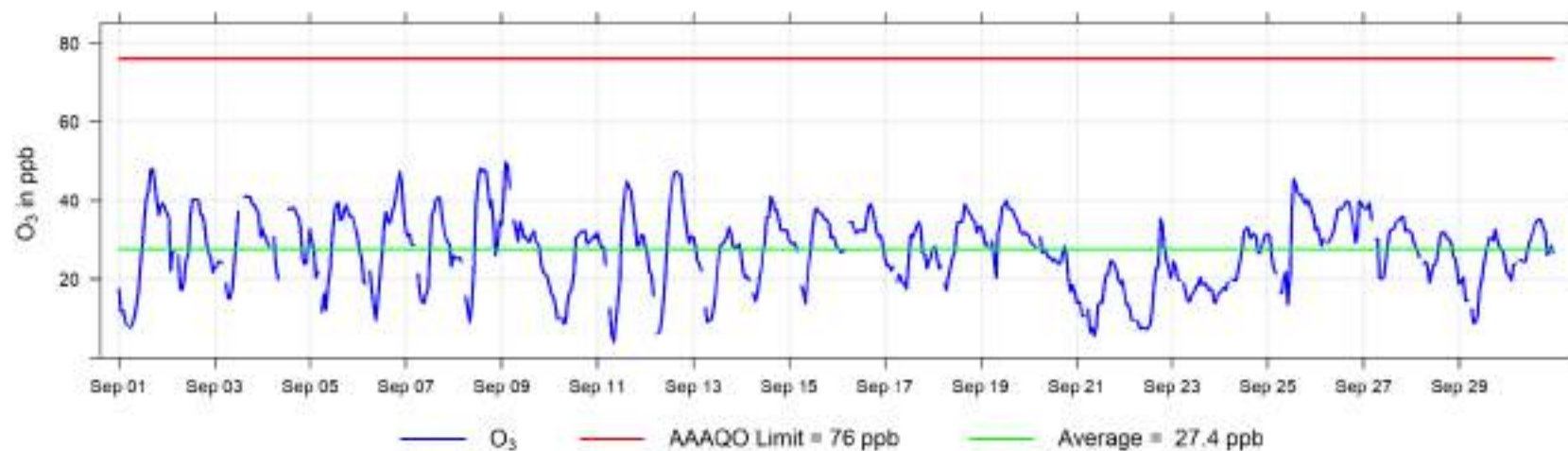
September 2024 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



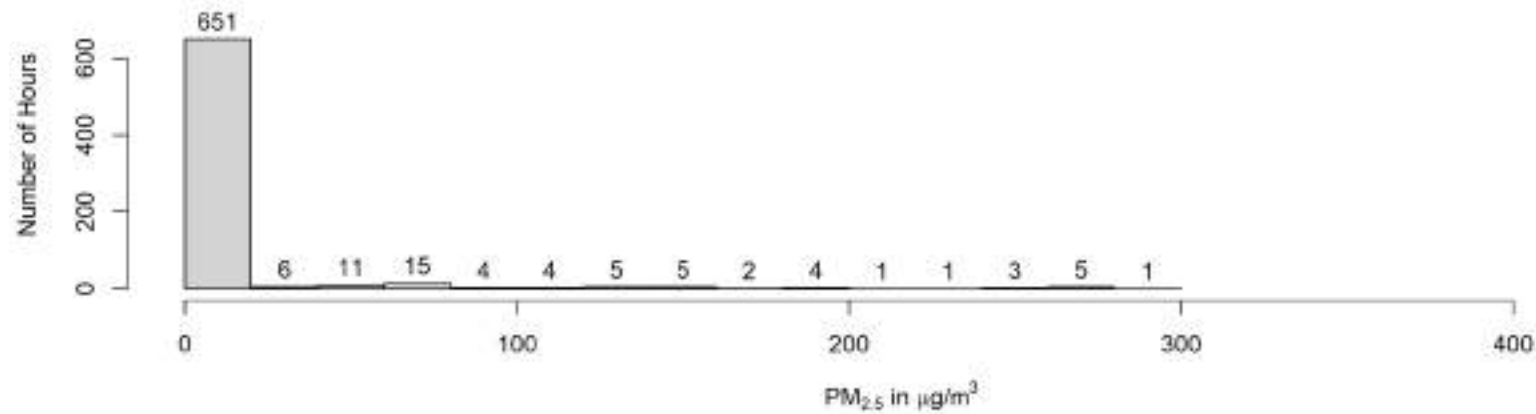
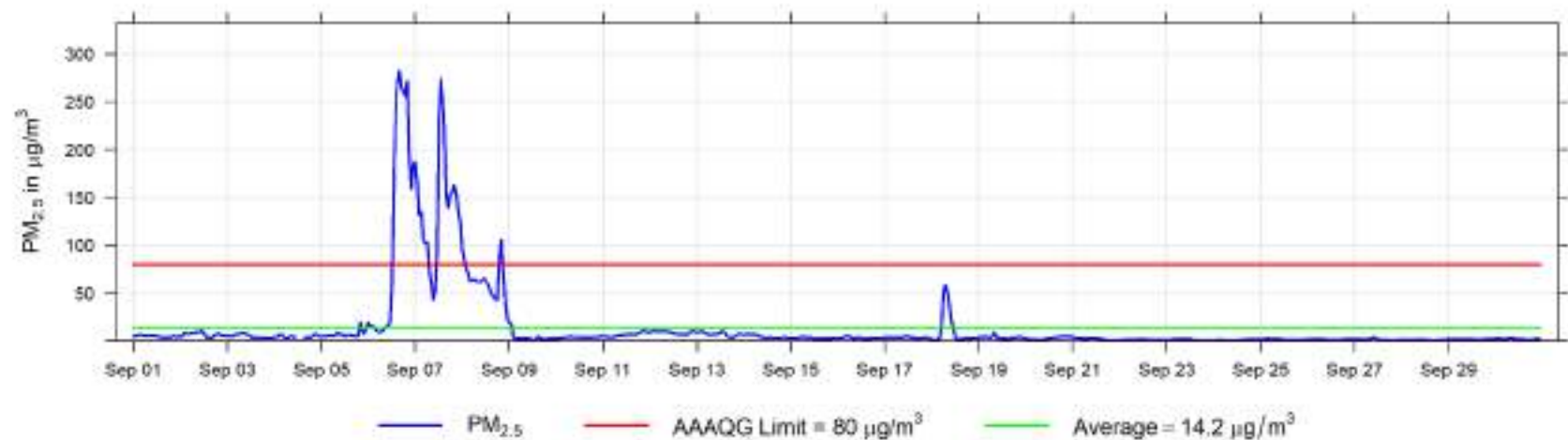
September 2024 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



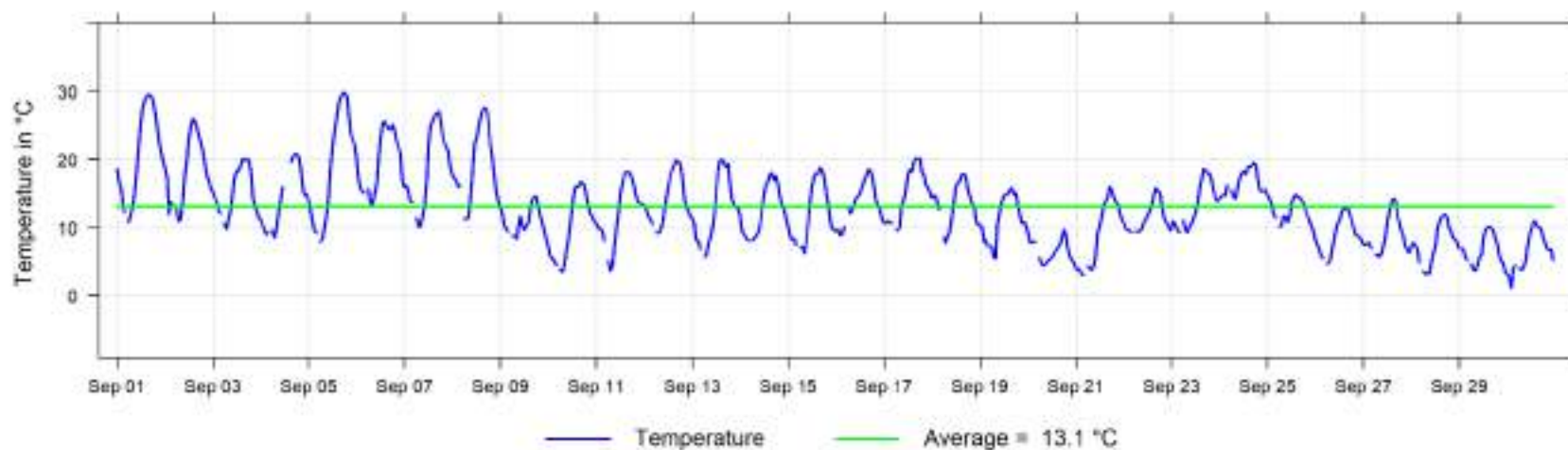
September 2024 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



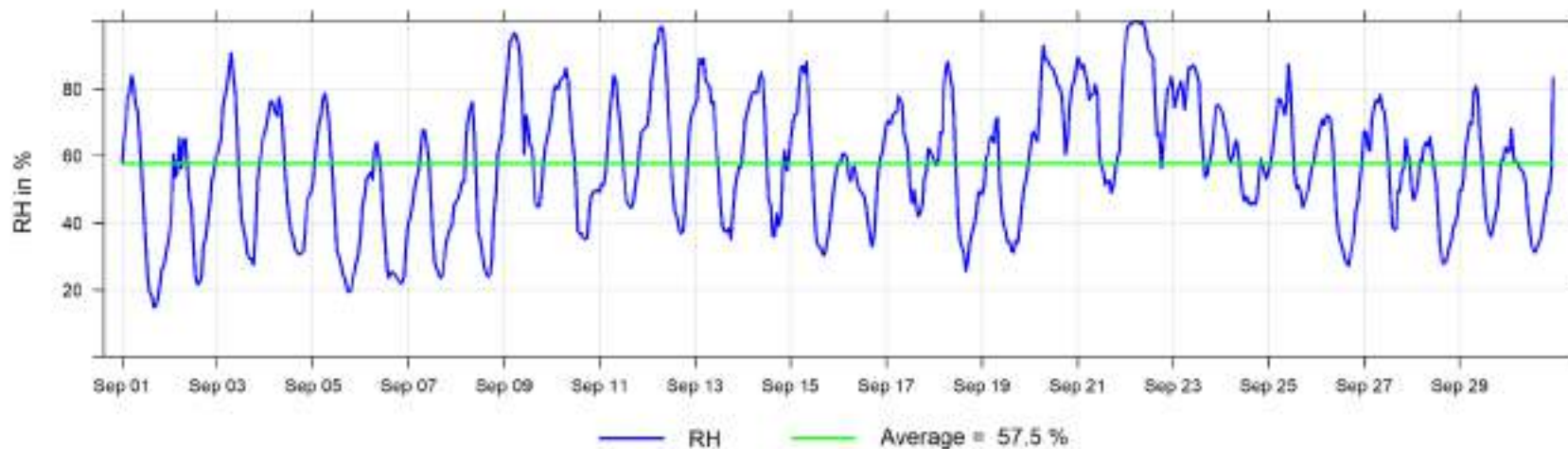
September 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



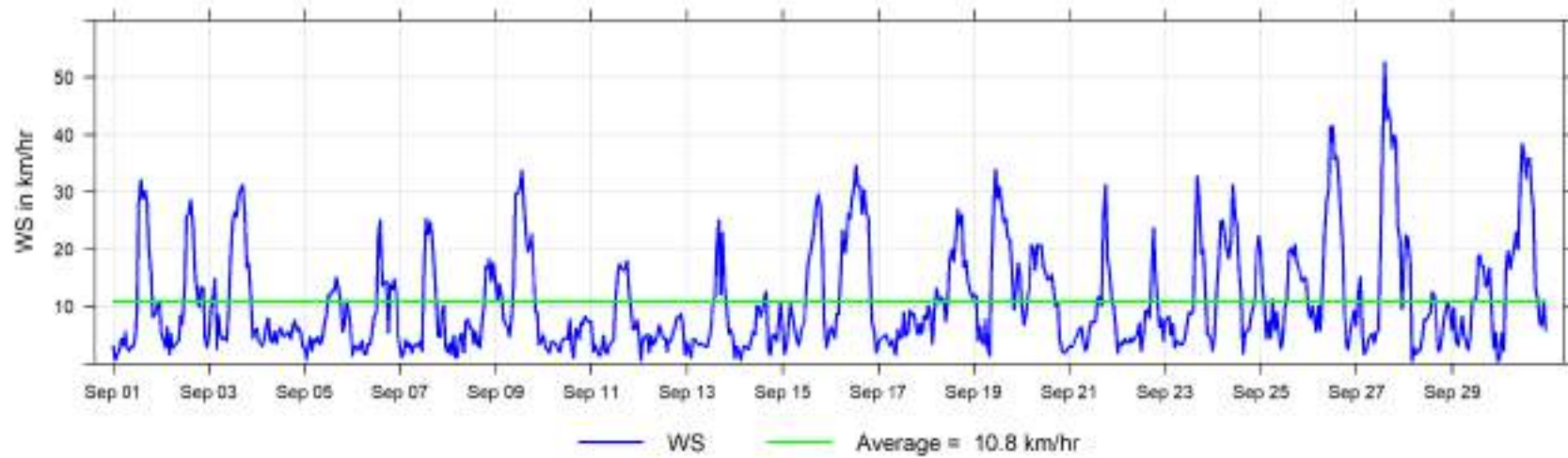
September 2024 Hourly Temperature Readings (in °C) at Beaverlodge



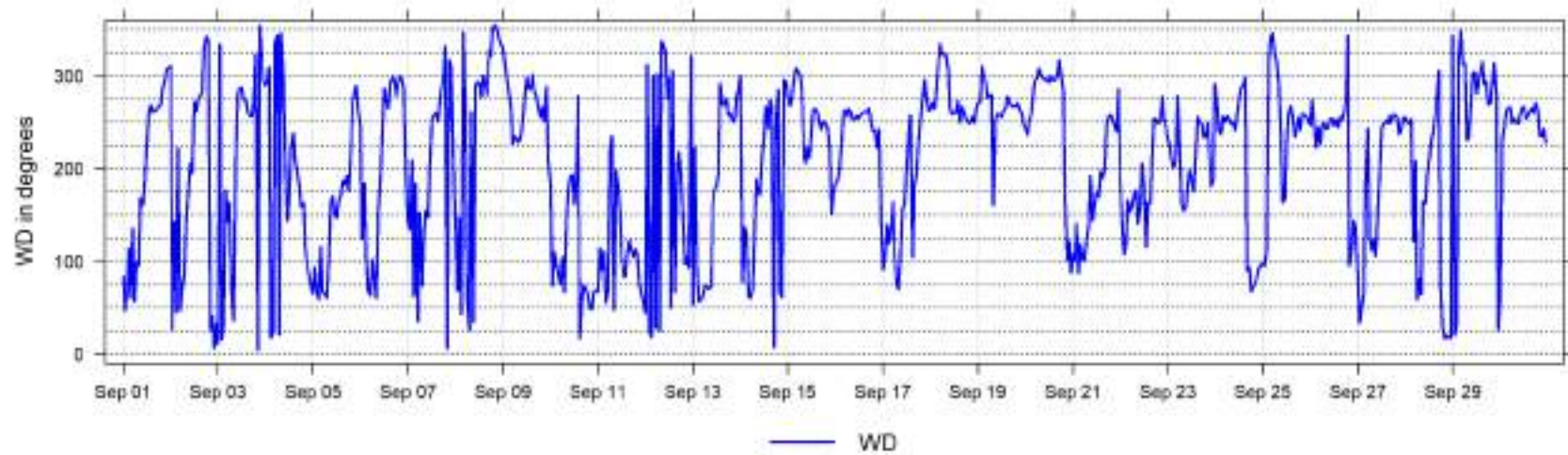
September 2024 Hourly Readings of Relative Humidity (in %) at Beaverlodge



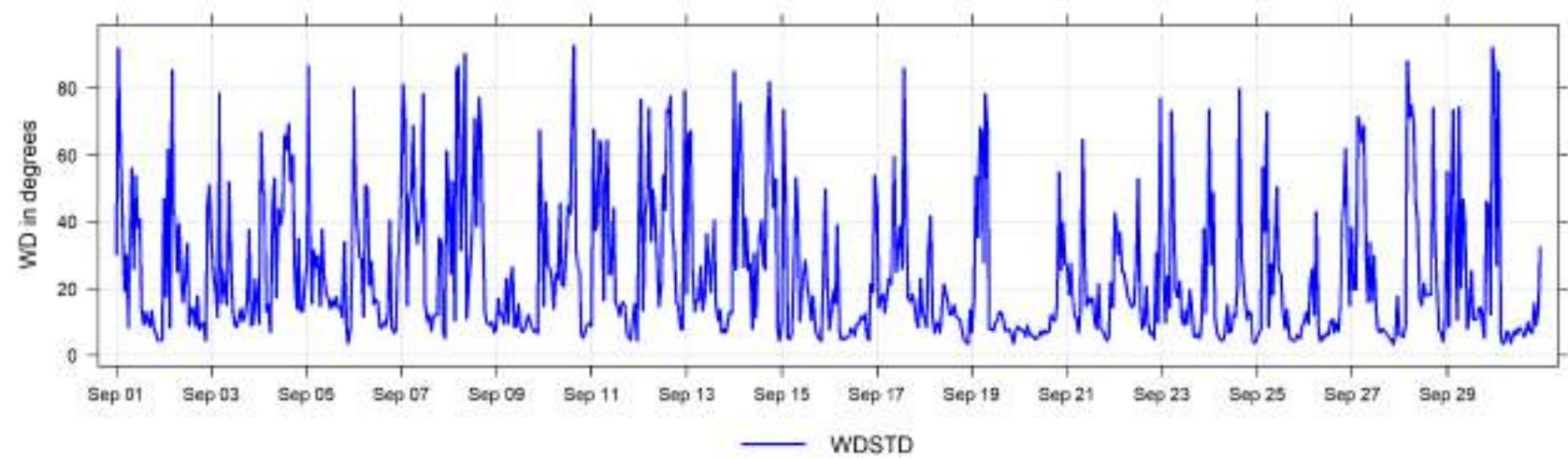
September 2024 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

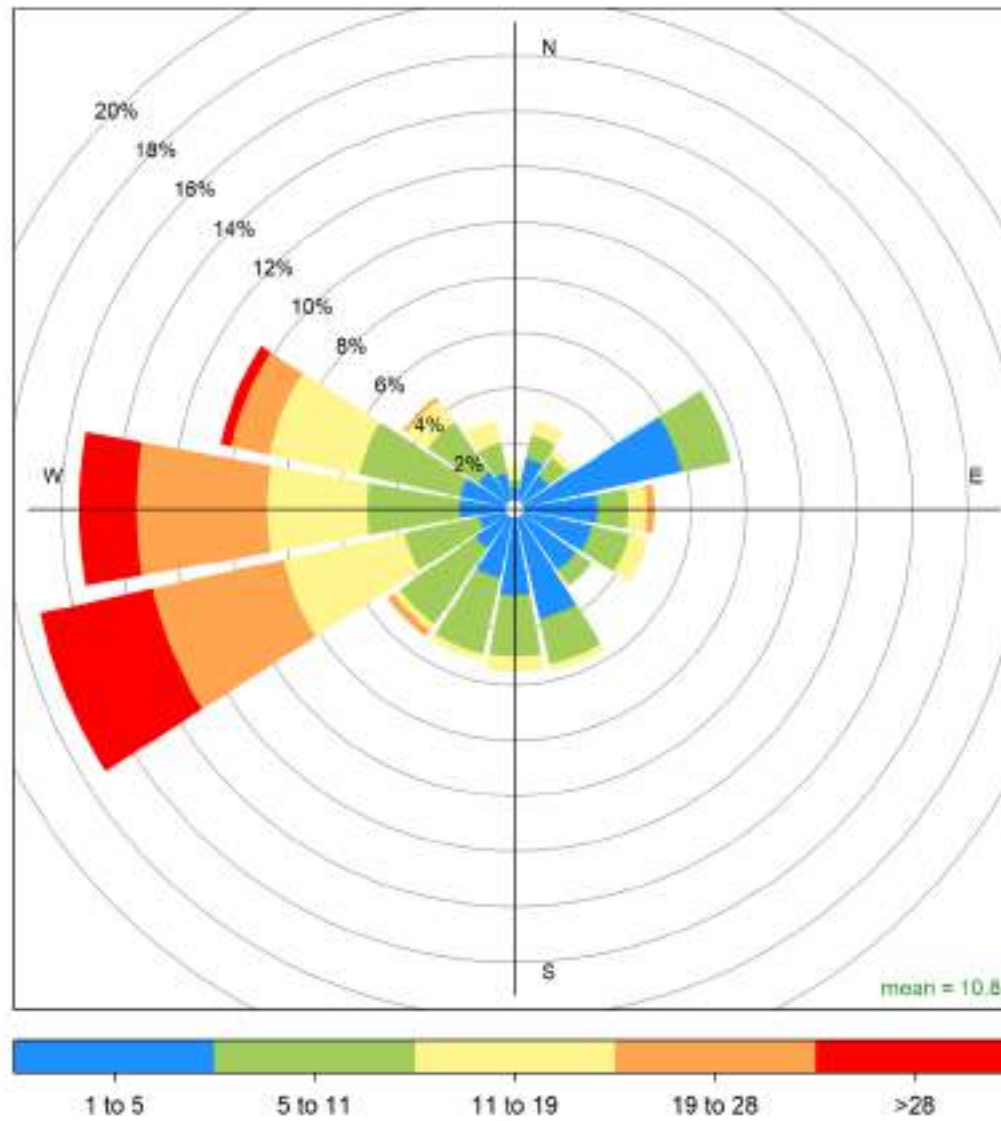


September 2024 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



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

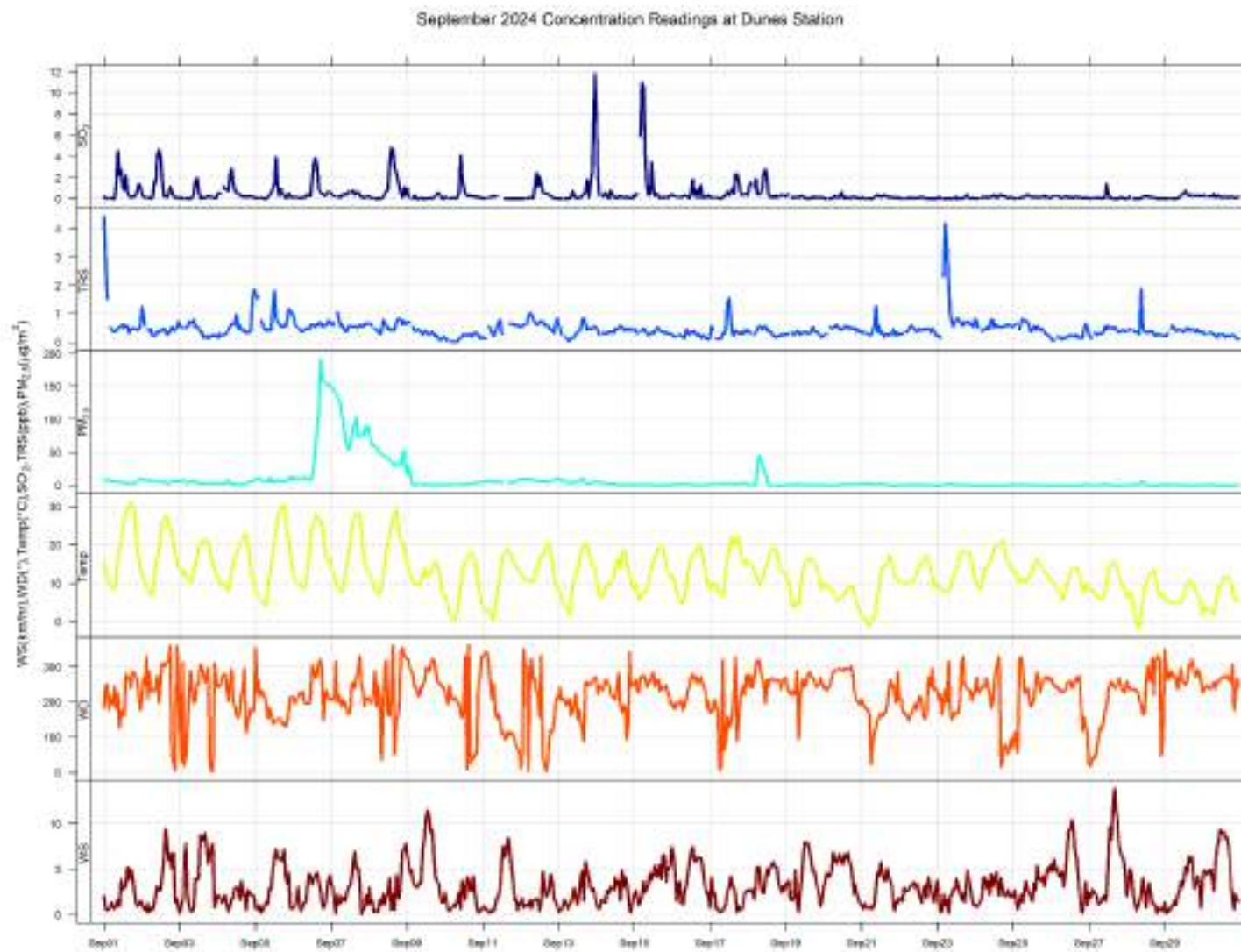




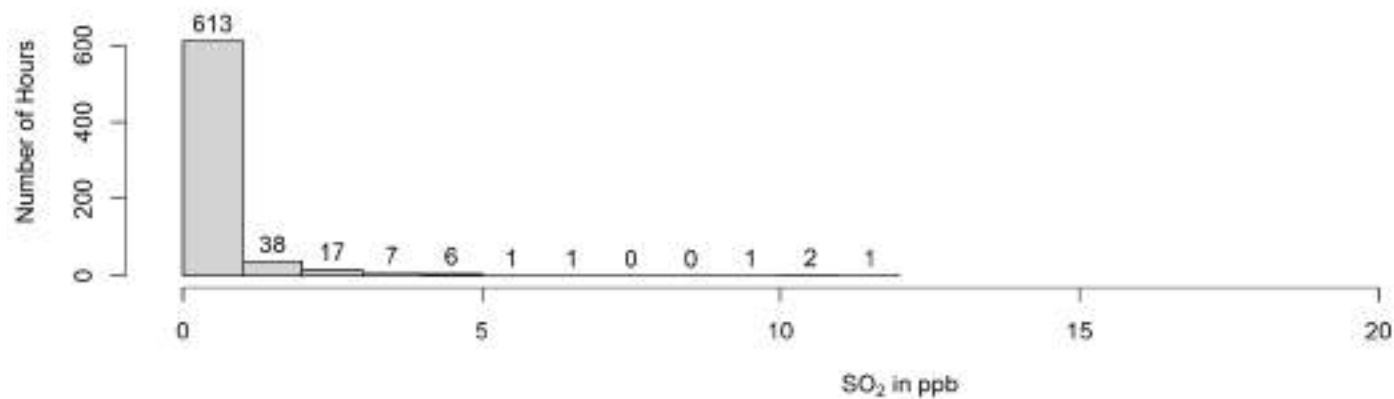
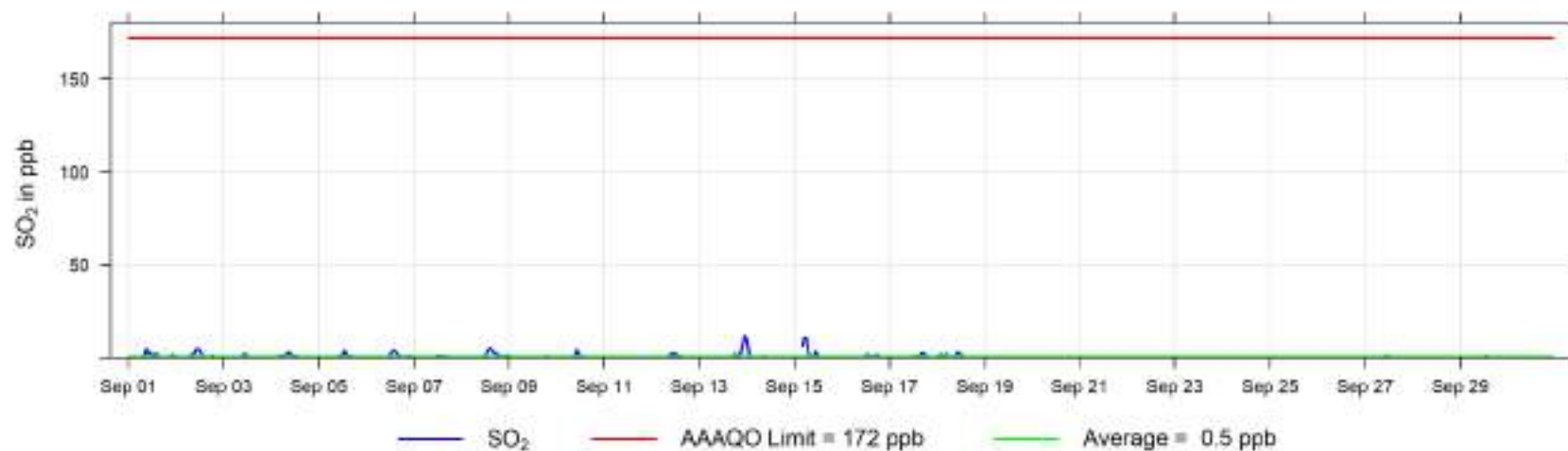
Beaverlodge September 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 1.2 %

3 Dunes Charts

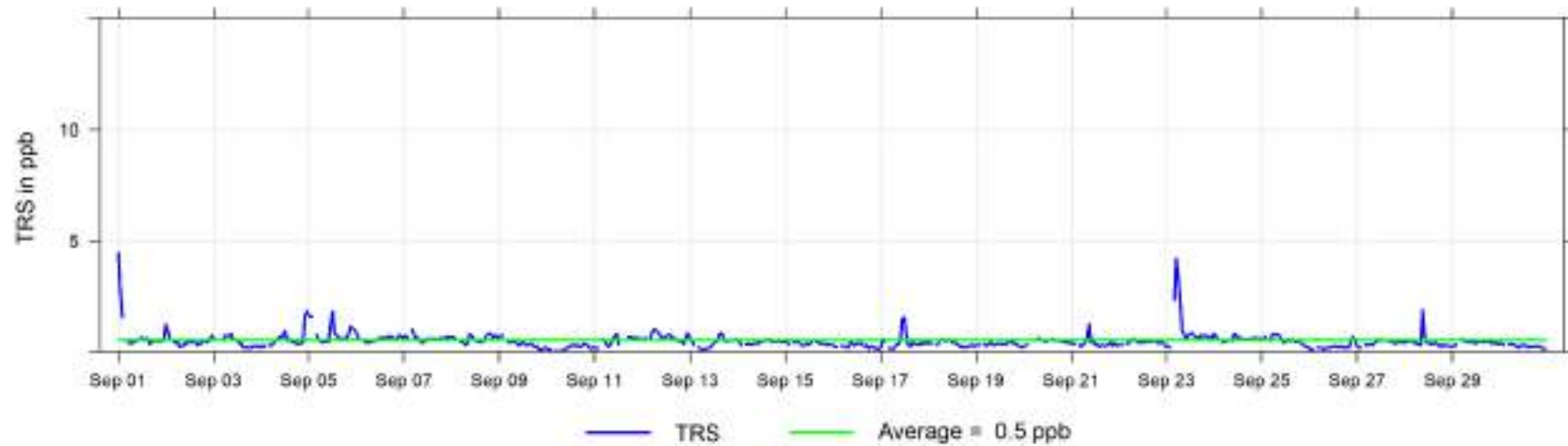
The following pages include the charts and histograms for Dunes Station



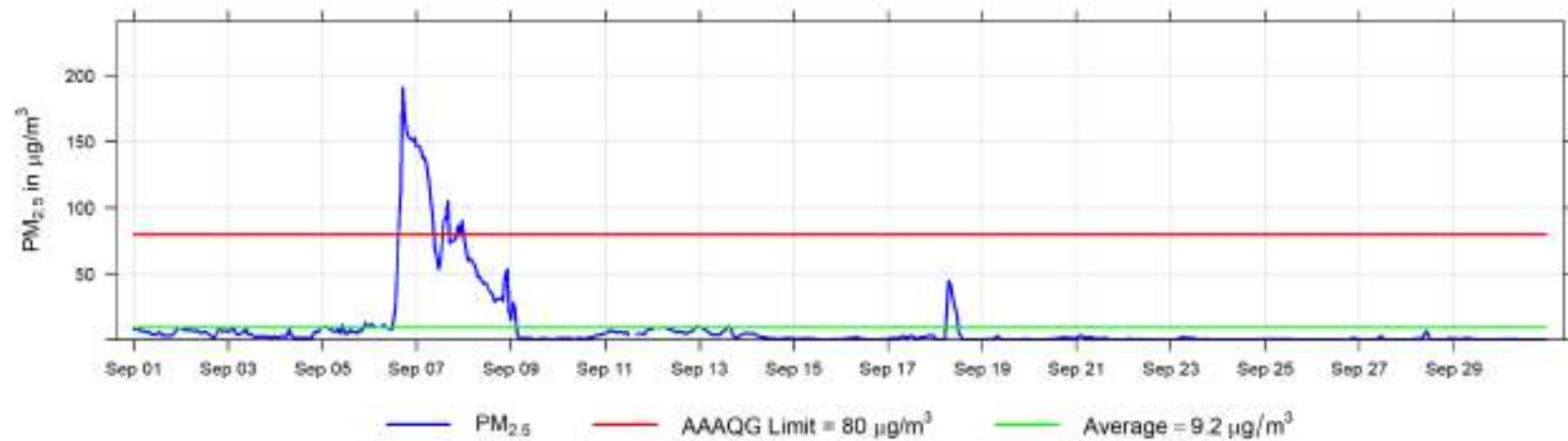
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Dunes

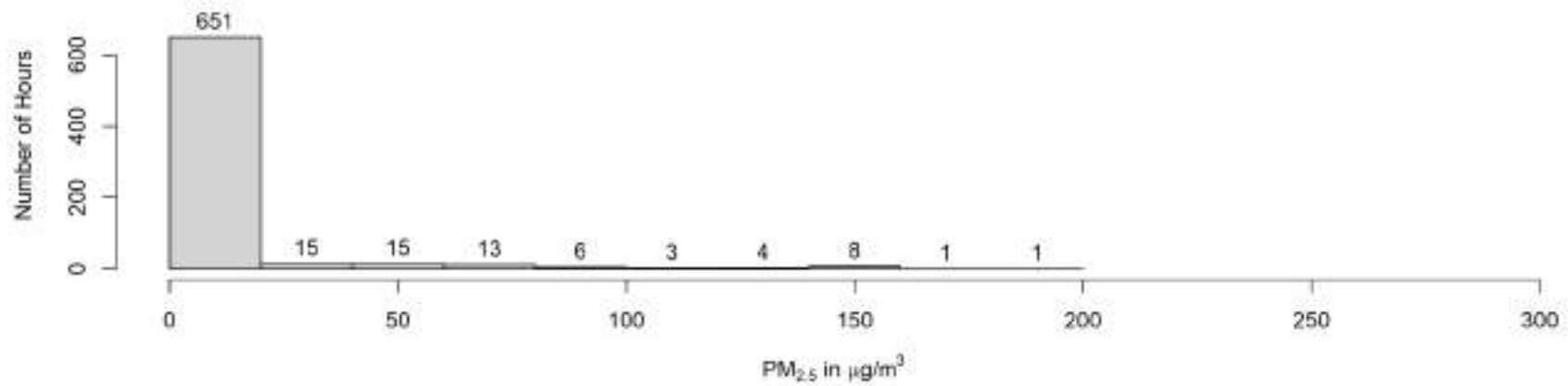


September 2024 Hourly Concentration Readings of TRS (in ppb) at Dunes

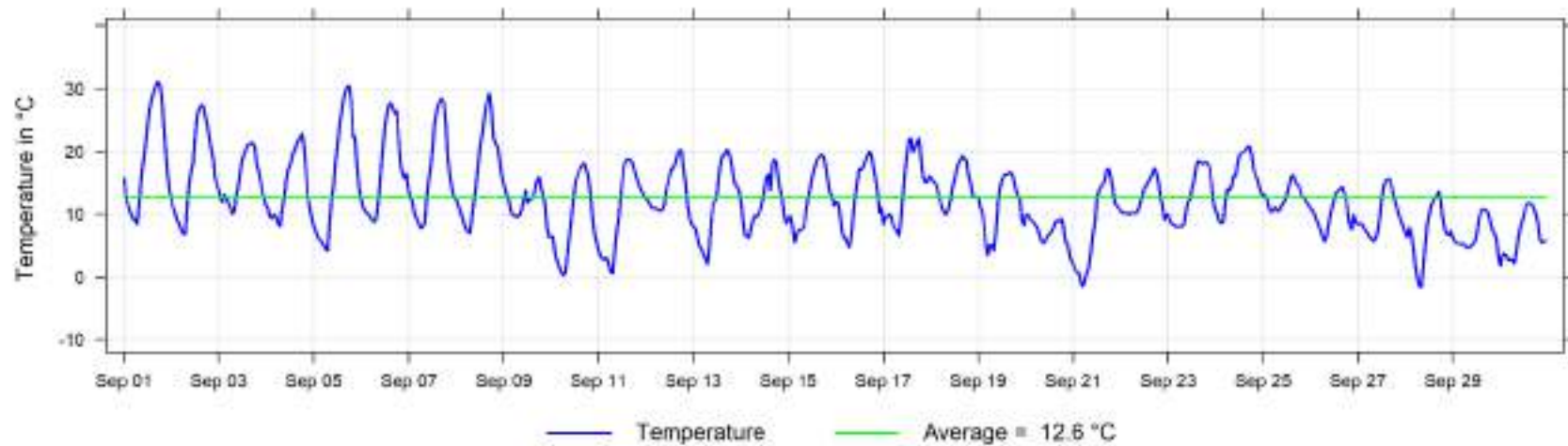


September 2024 Hourly Concentration Readings of $\text{PM}_{2.5}$ in $\mu\text{g}/\text{m}^3$ at Dunes

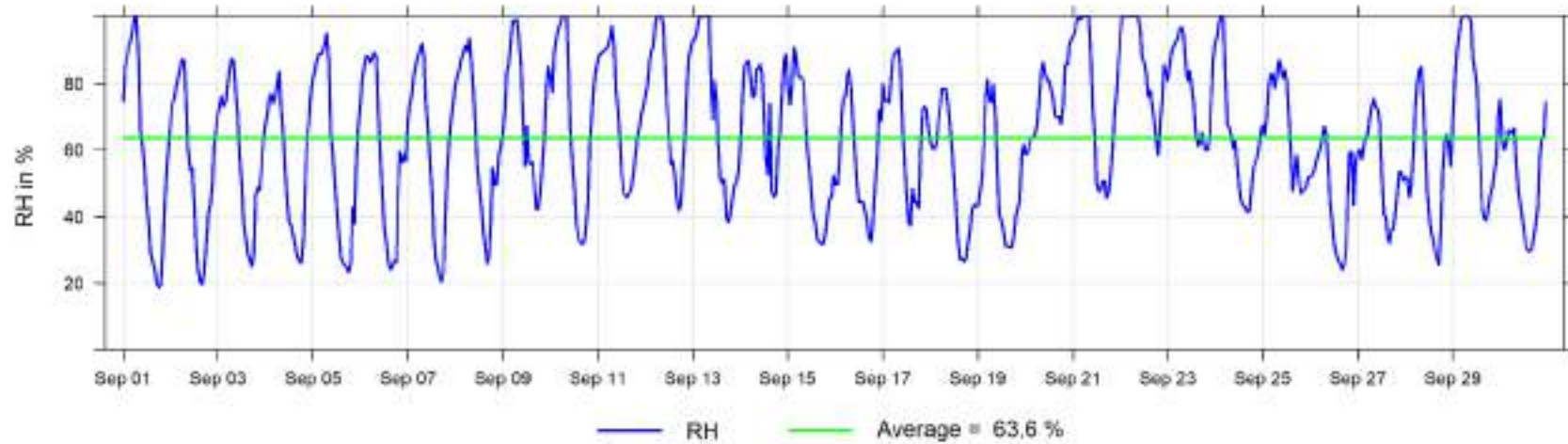




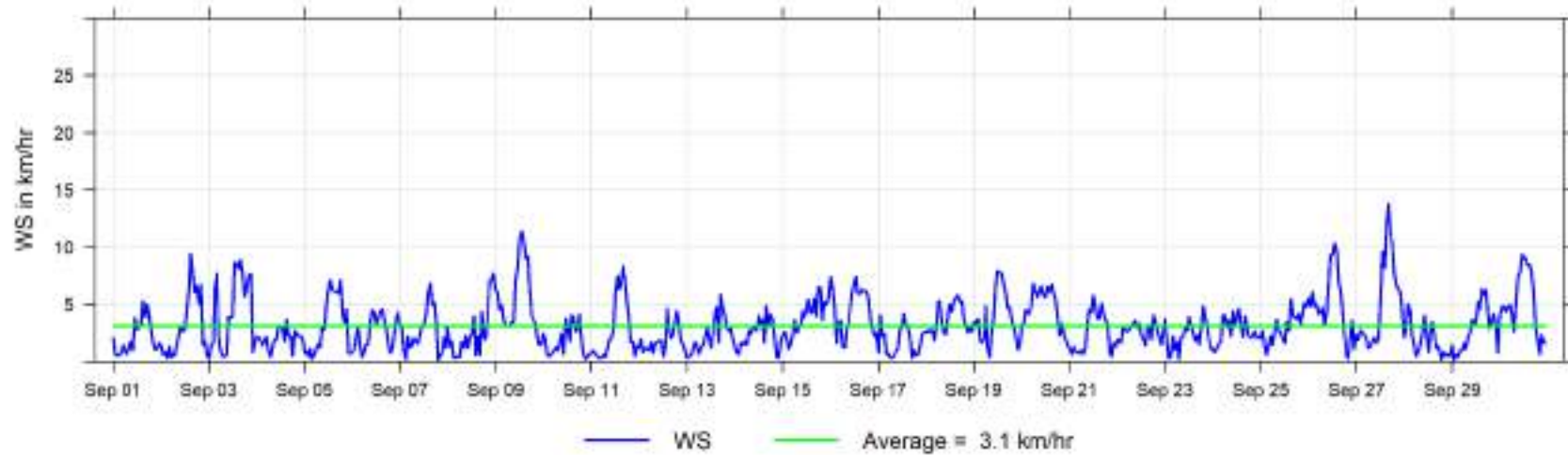
September 2024 Hourly Temperature Readings (in °C) at Dunes



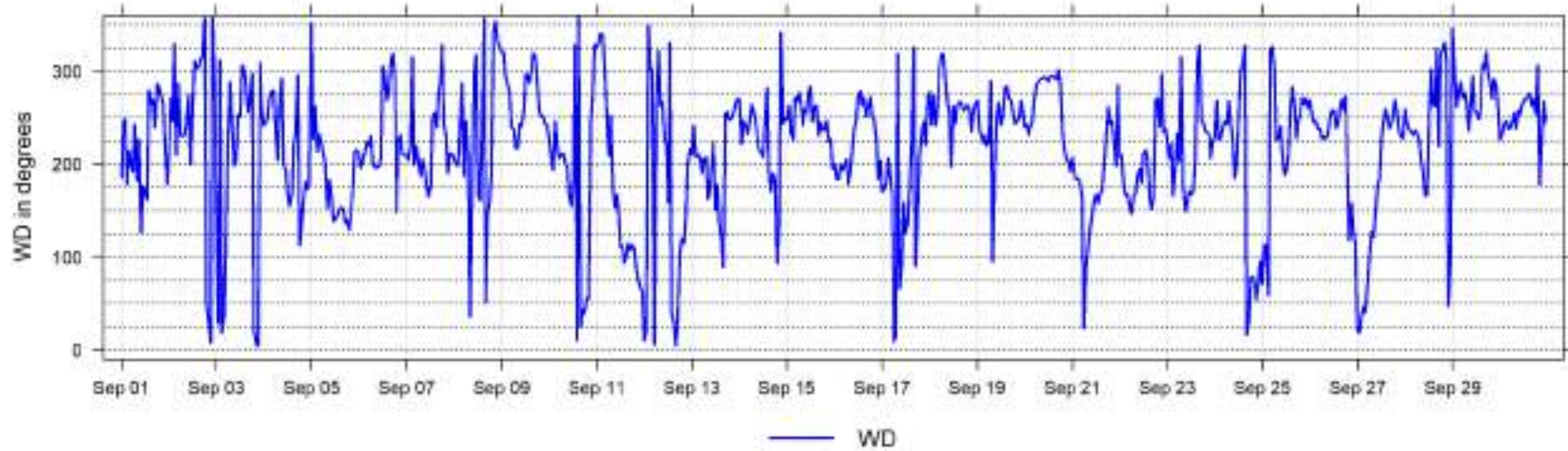
September 2024 Hourly Readings of Relative Humidity (in %) at Dunes



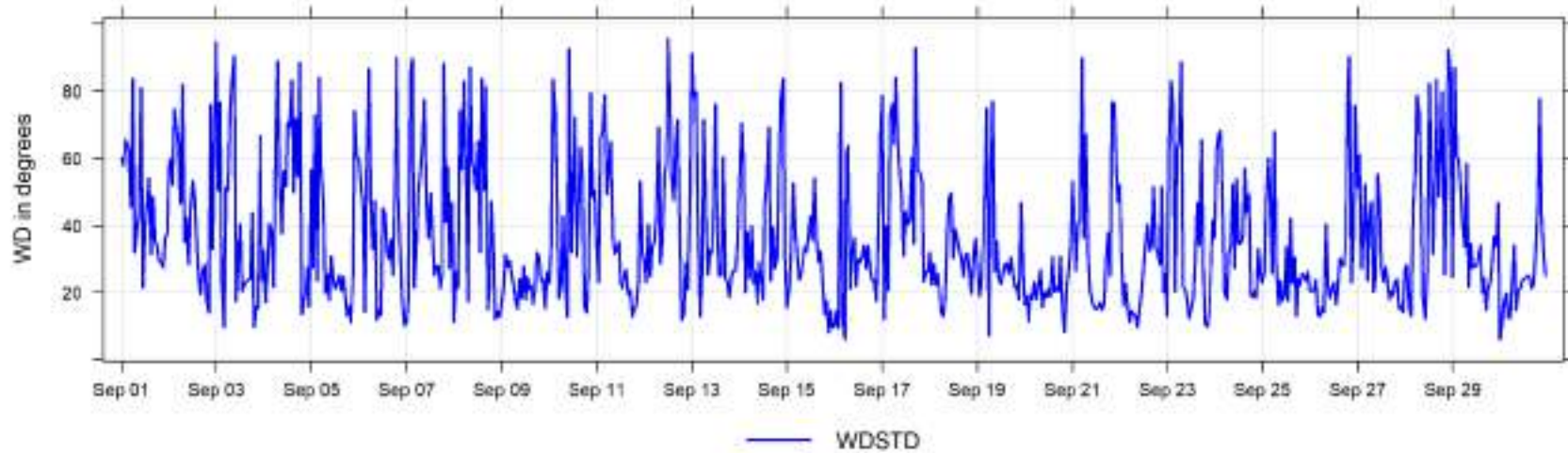
September 2024 Hourly Readings of Wind Speed (in km/hr) at Dunes

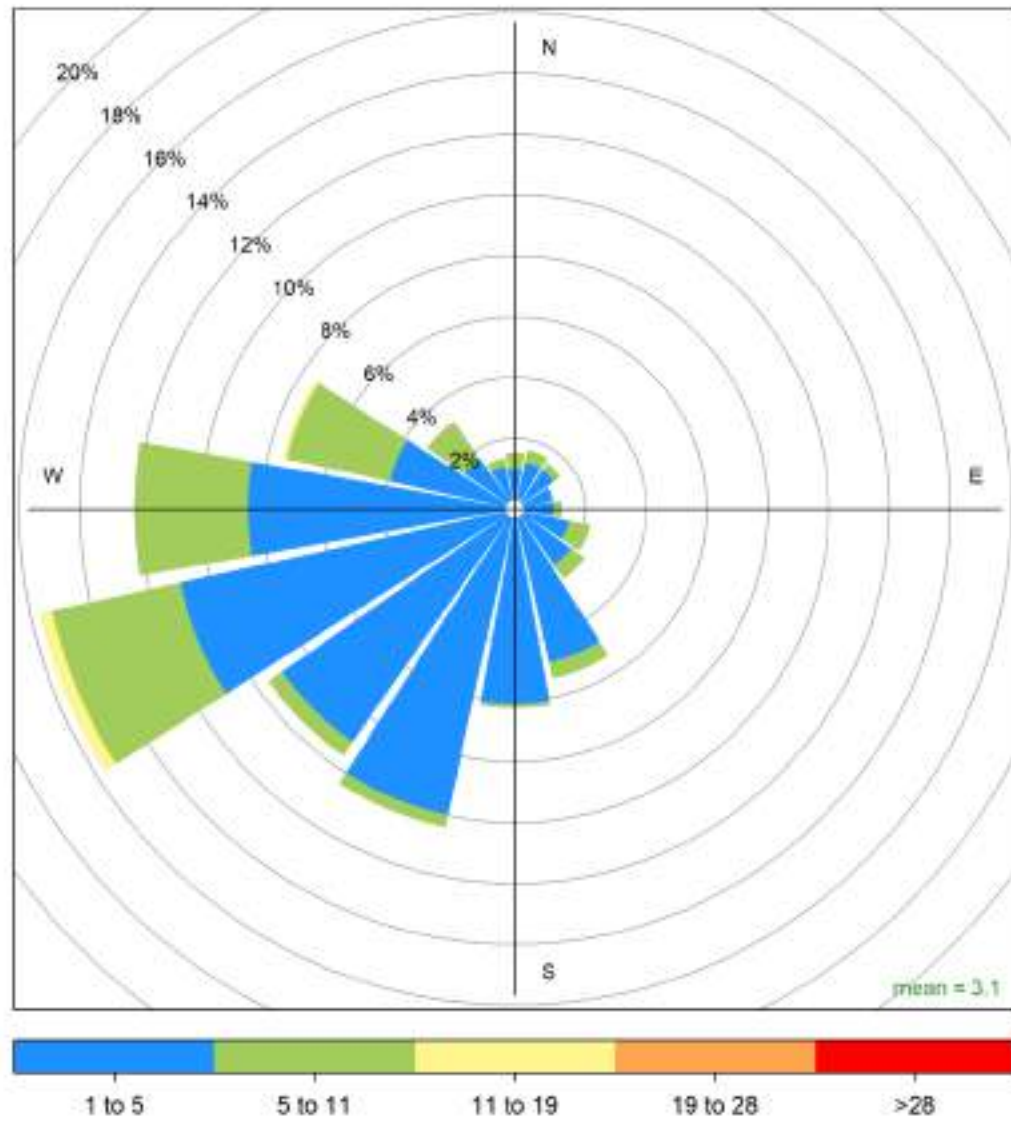


September 2024 Hourly Readings of Wind Direction (in degrees) at Dunes



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

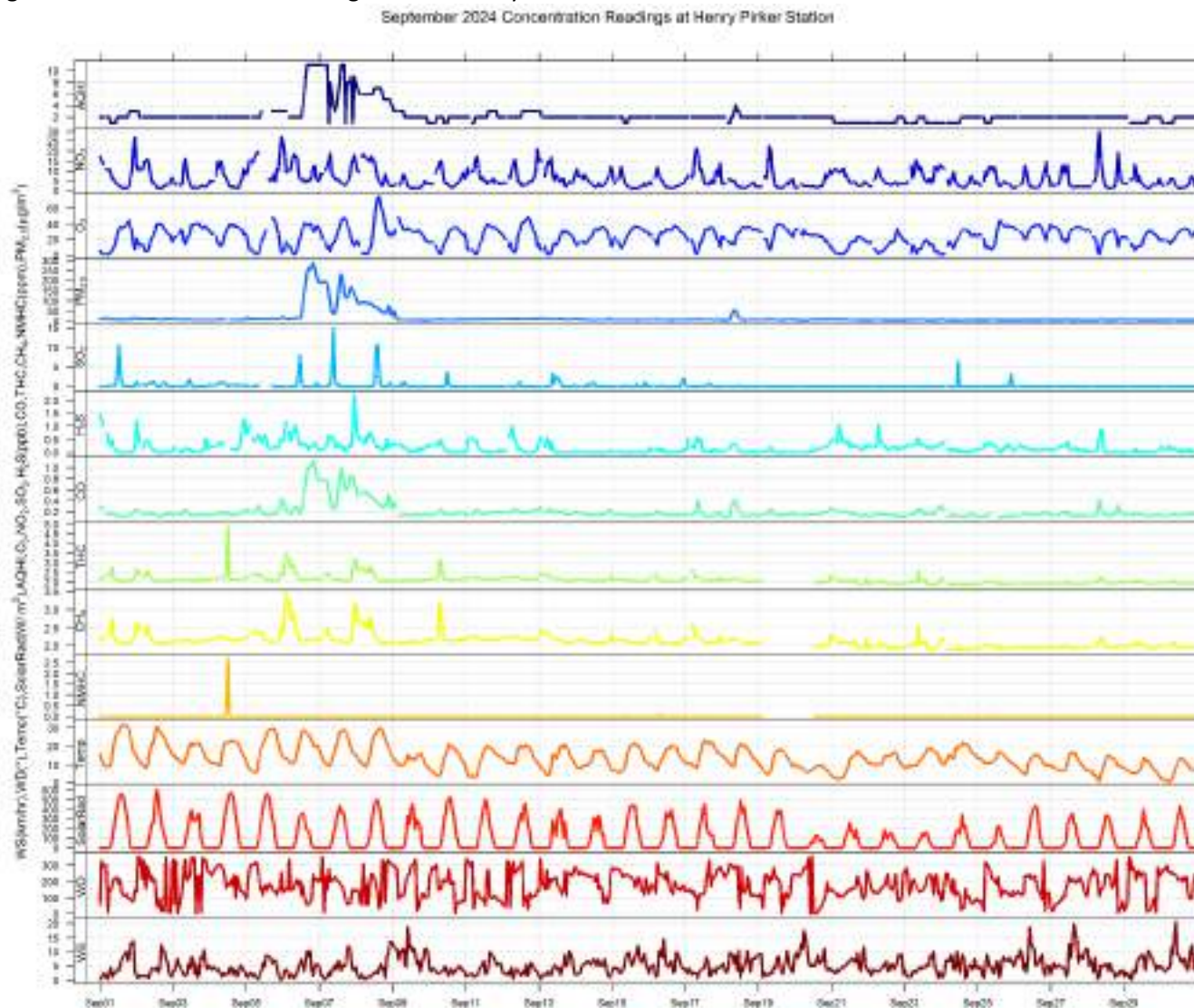




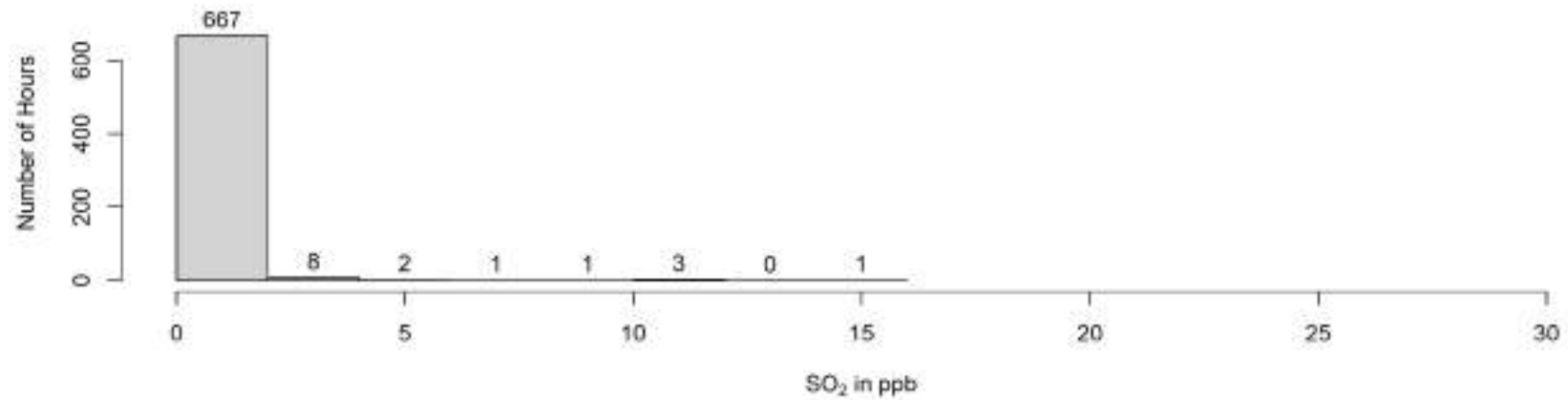
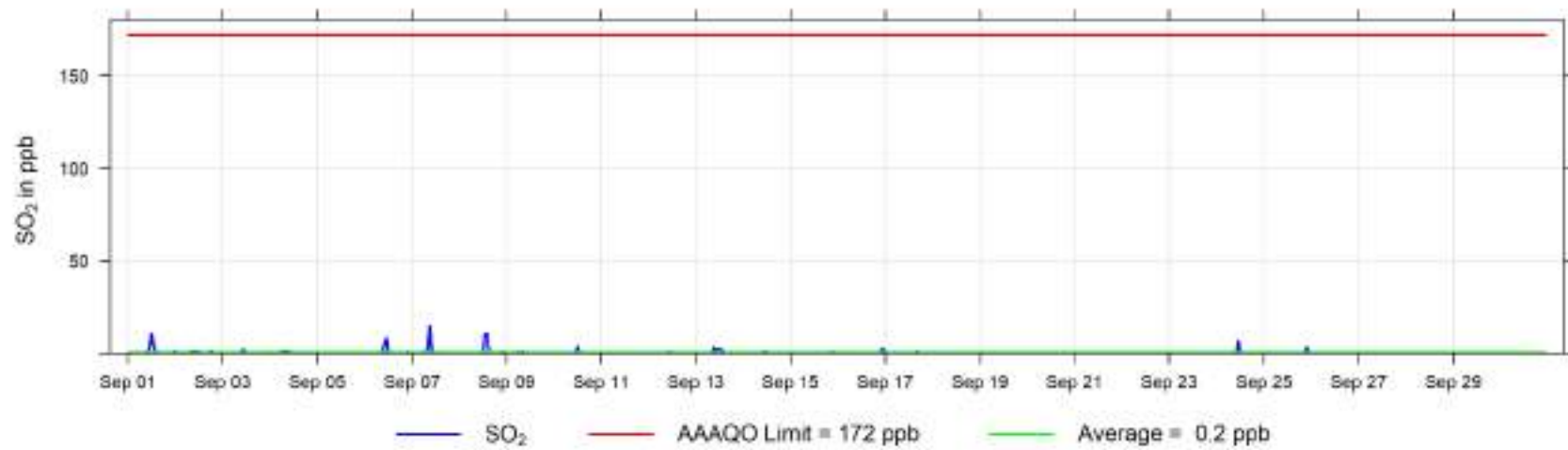
Dunes September 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 16.8 %

4 Grande Prairie - Henry Pirker Charts

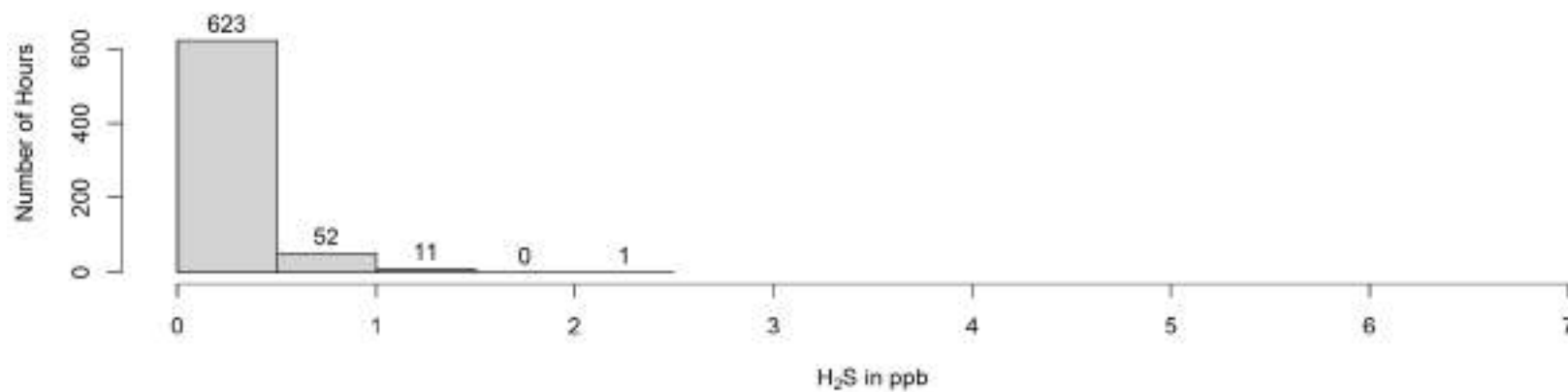
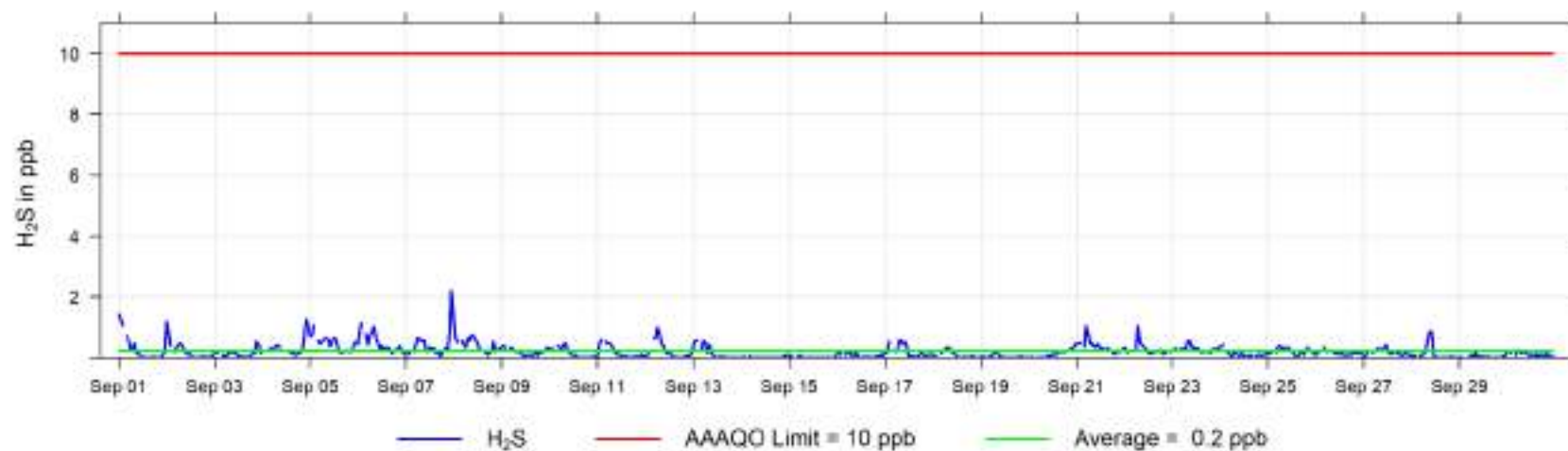
The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie



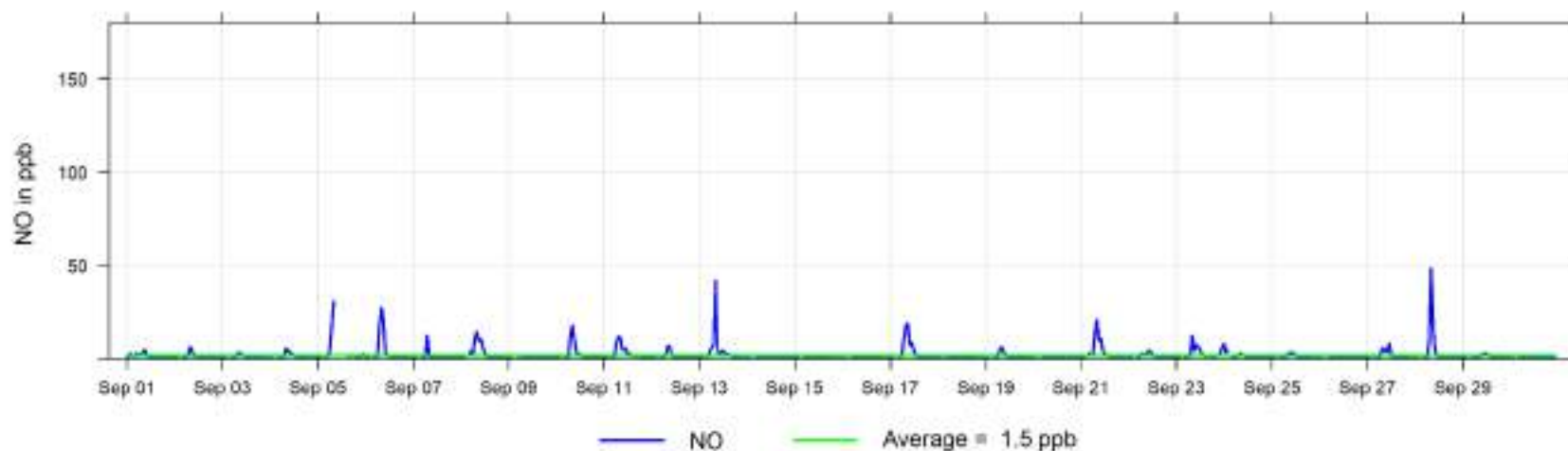
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



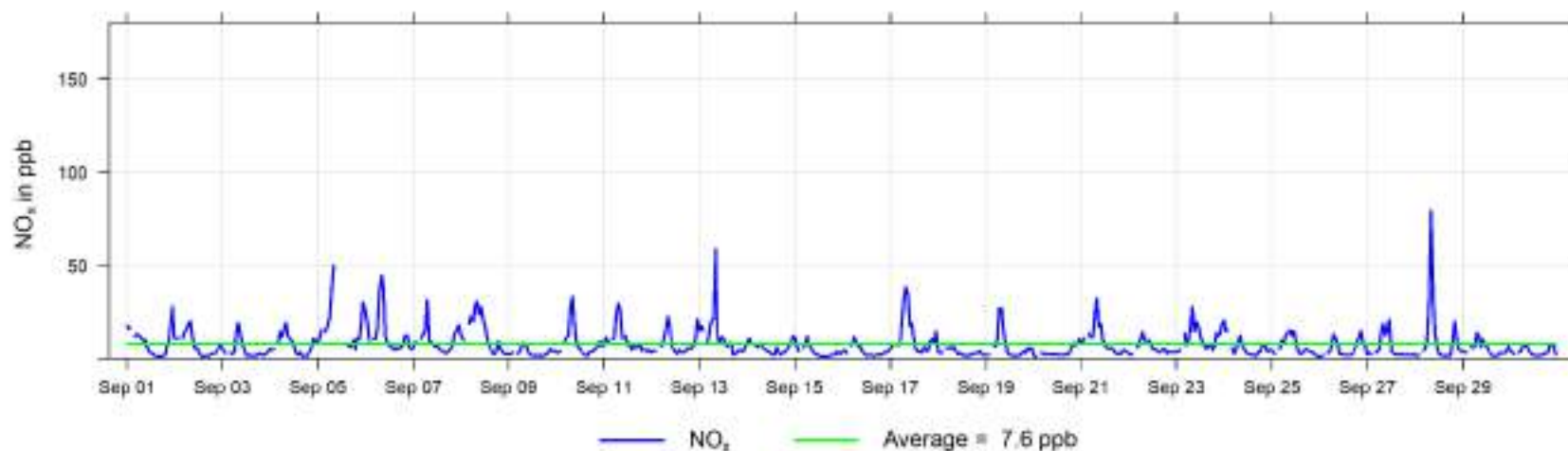
September 2024 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



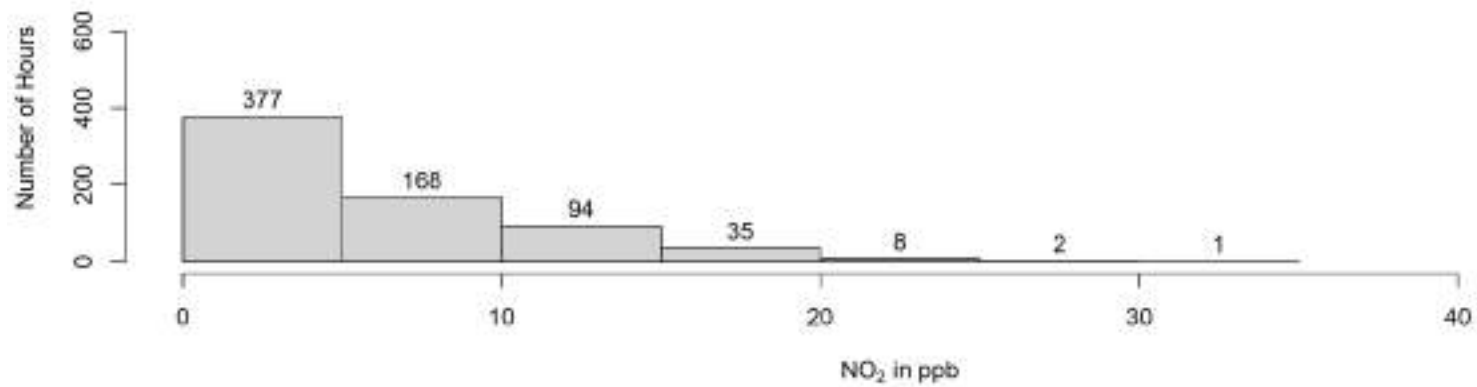
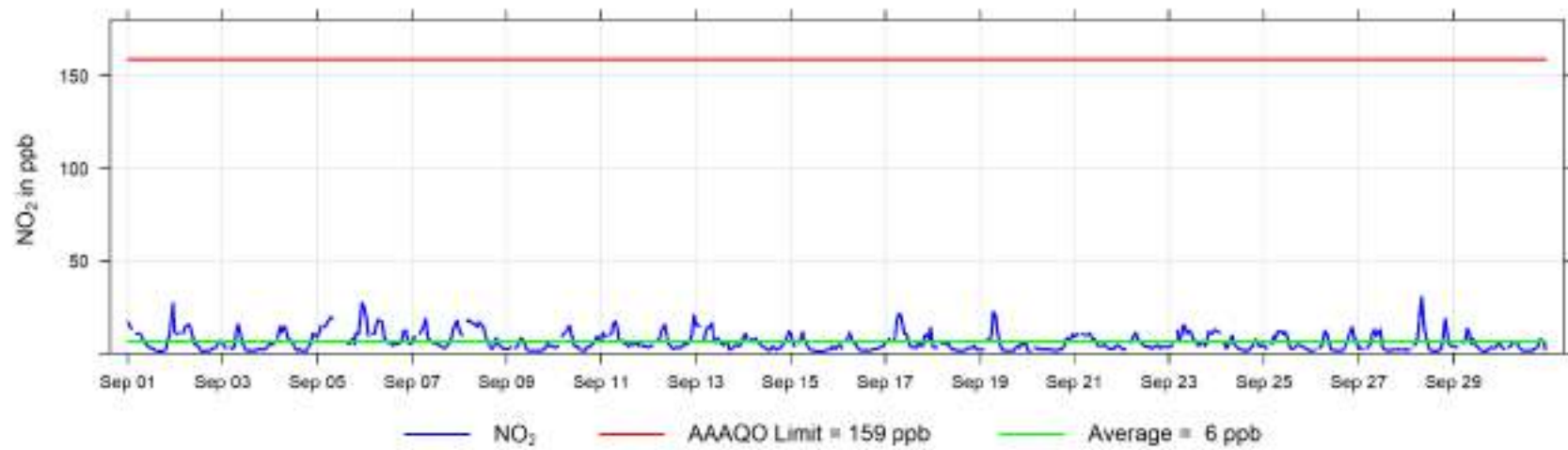
September 2024 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



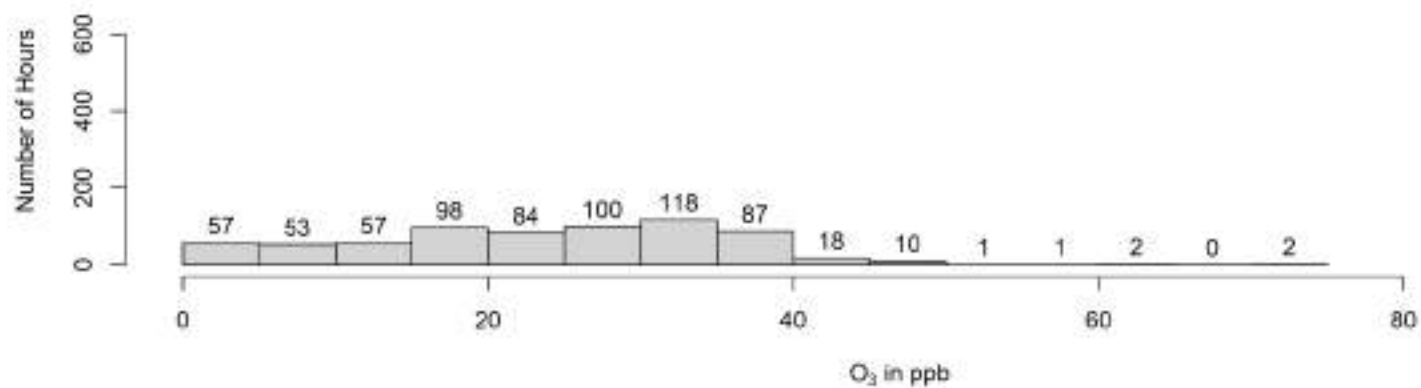
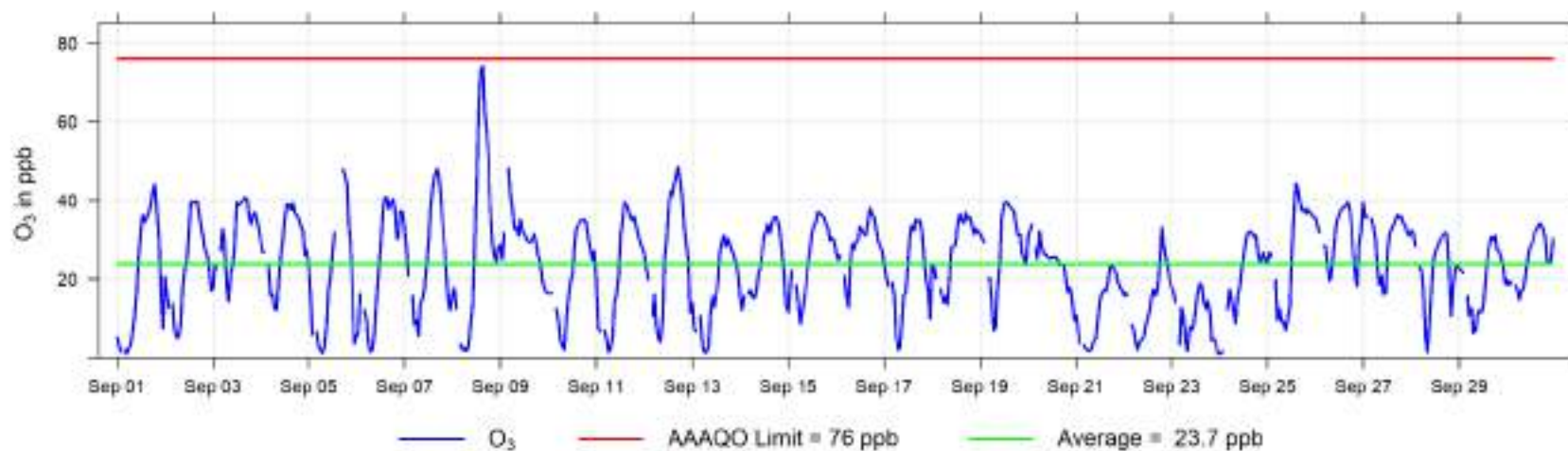
September 2024 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



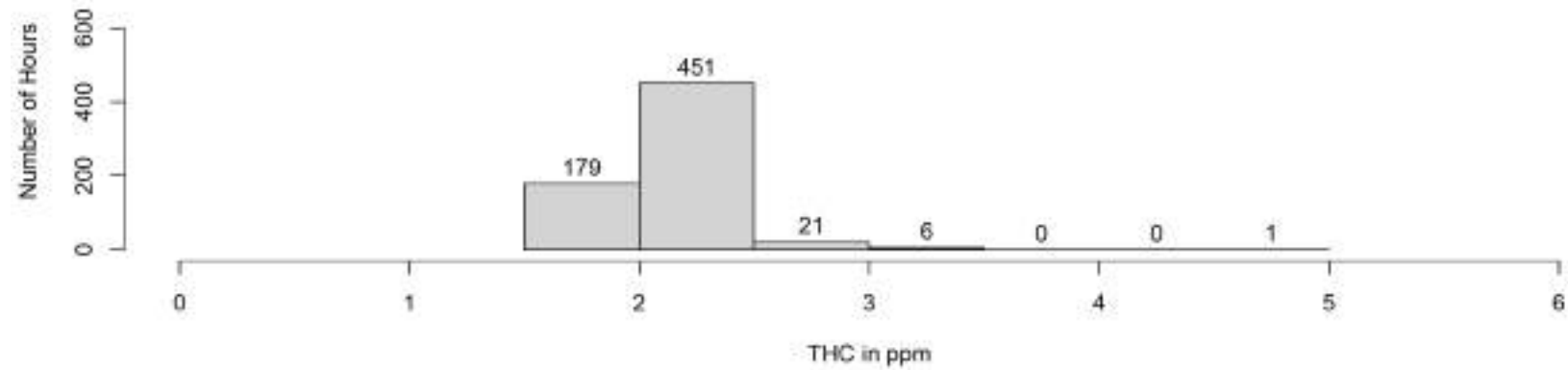
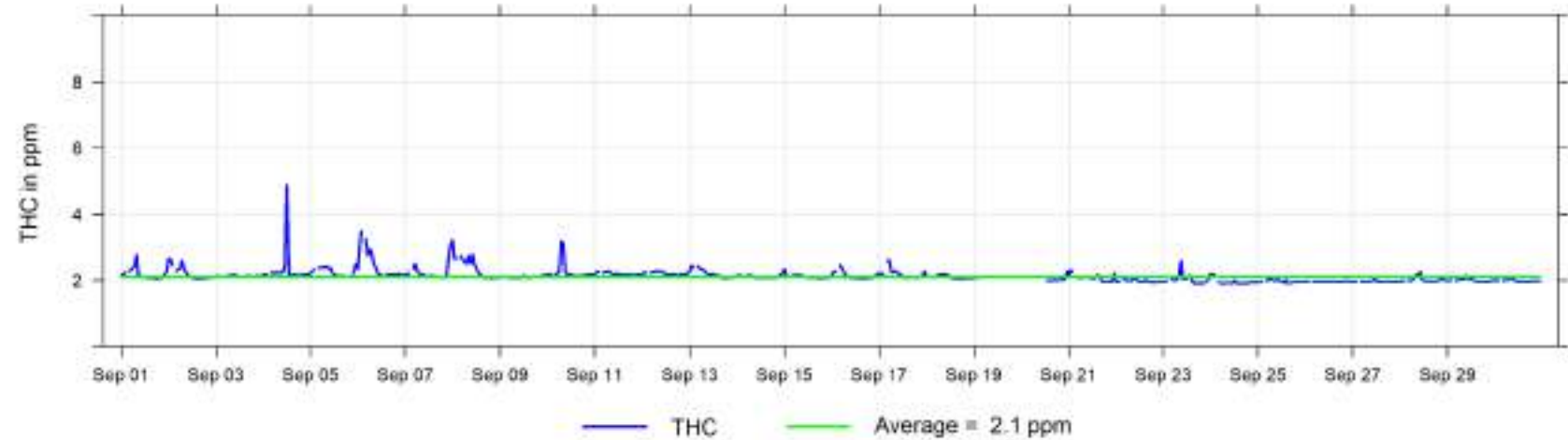
September 2024 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



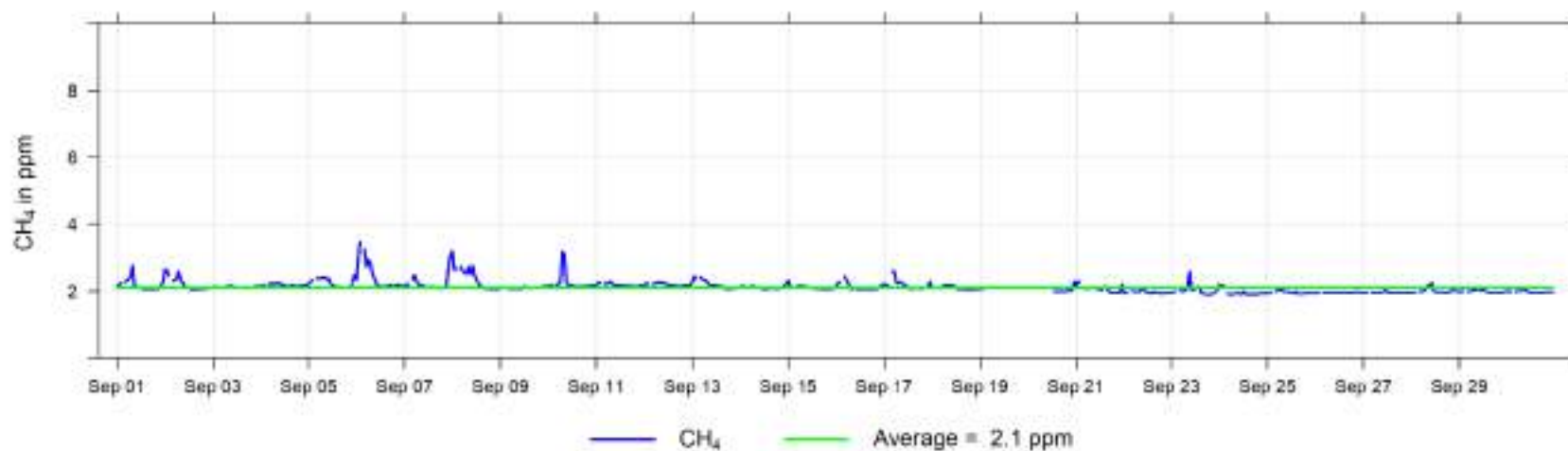
September 2024 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



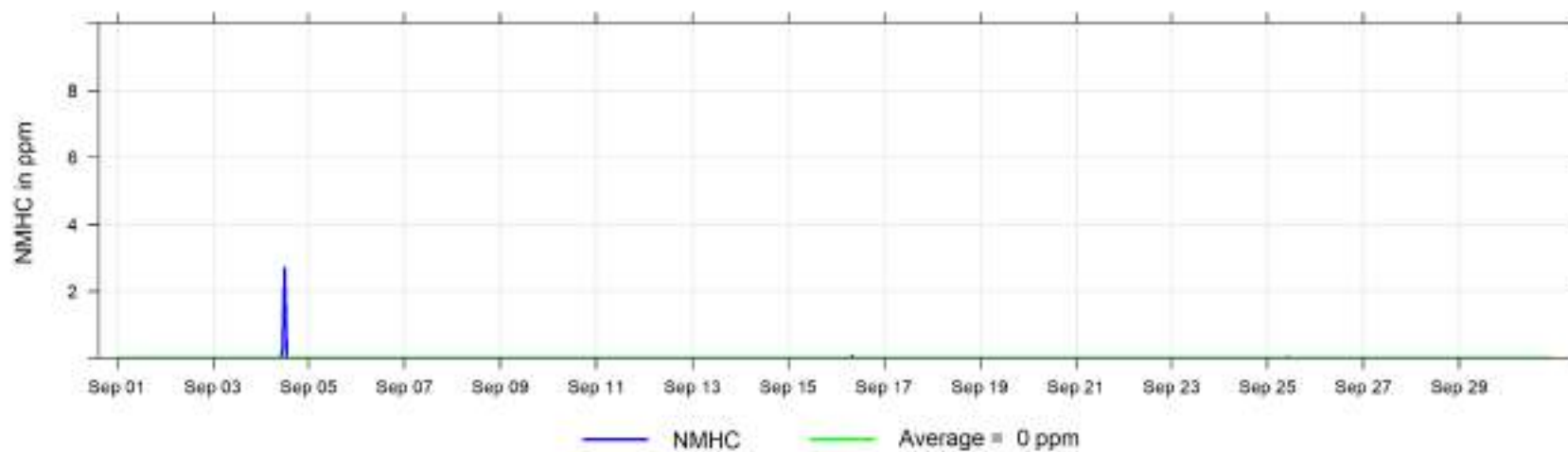
September 2024 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



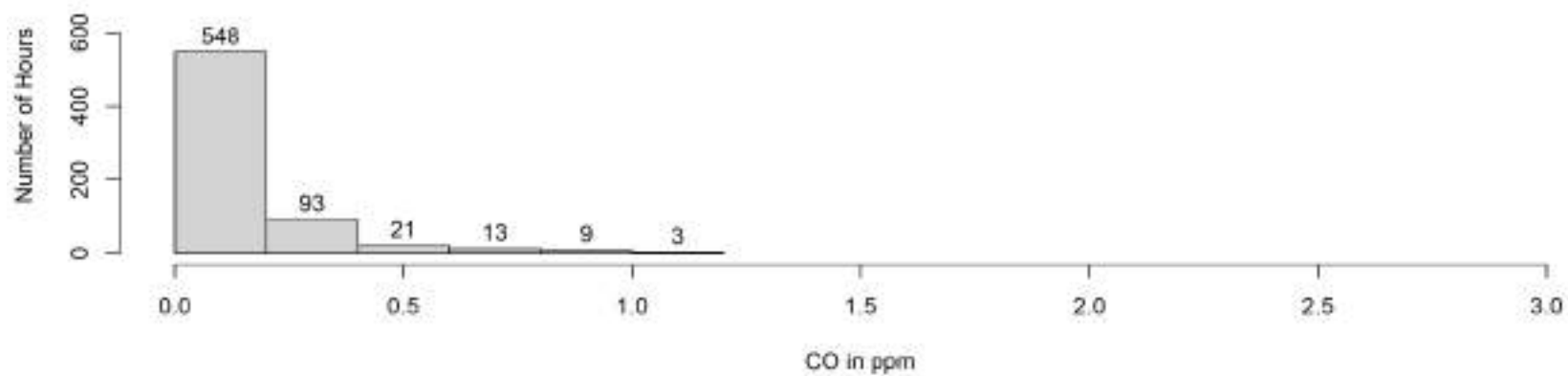
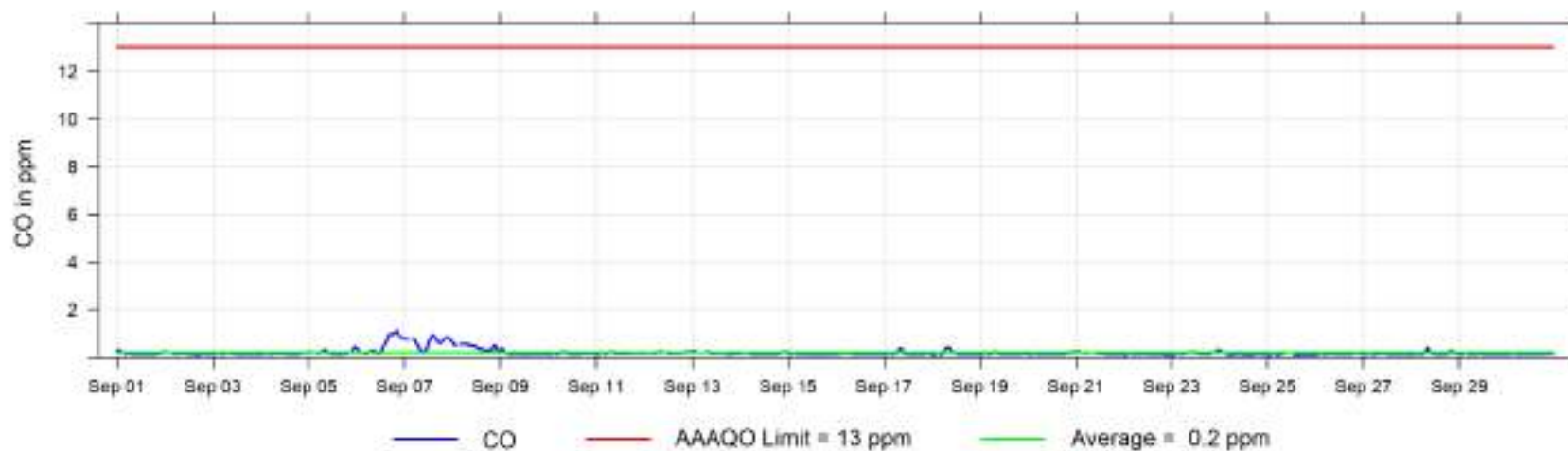
September 2024 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



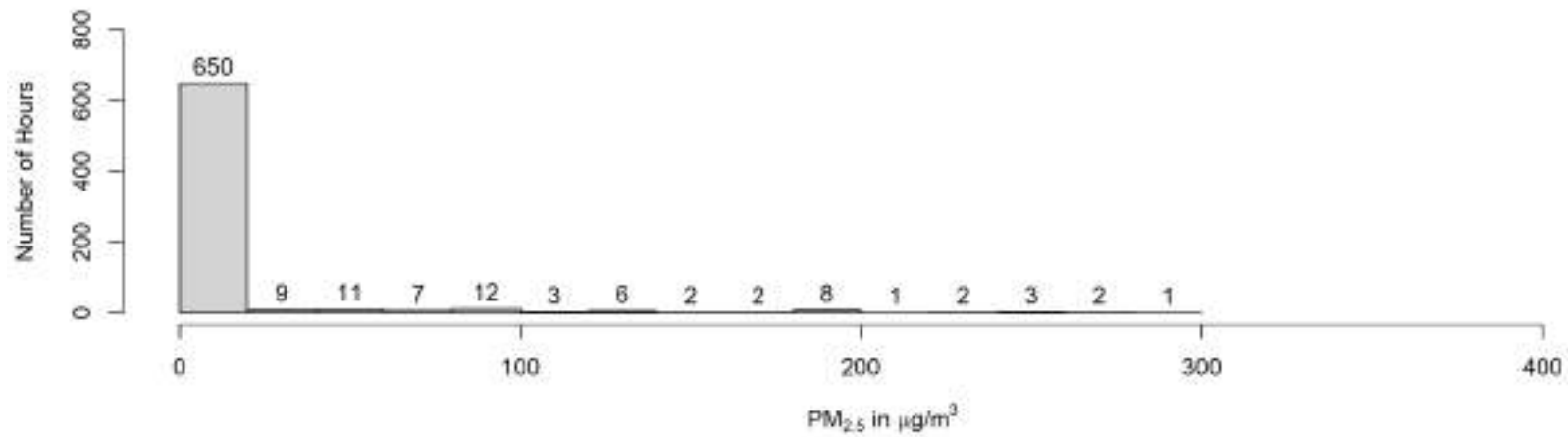
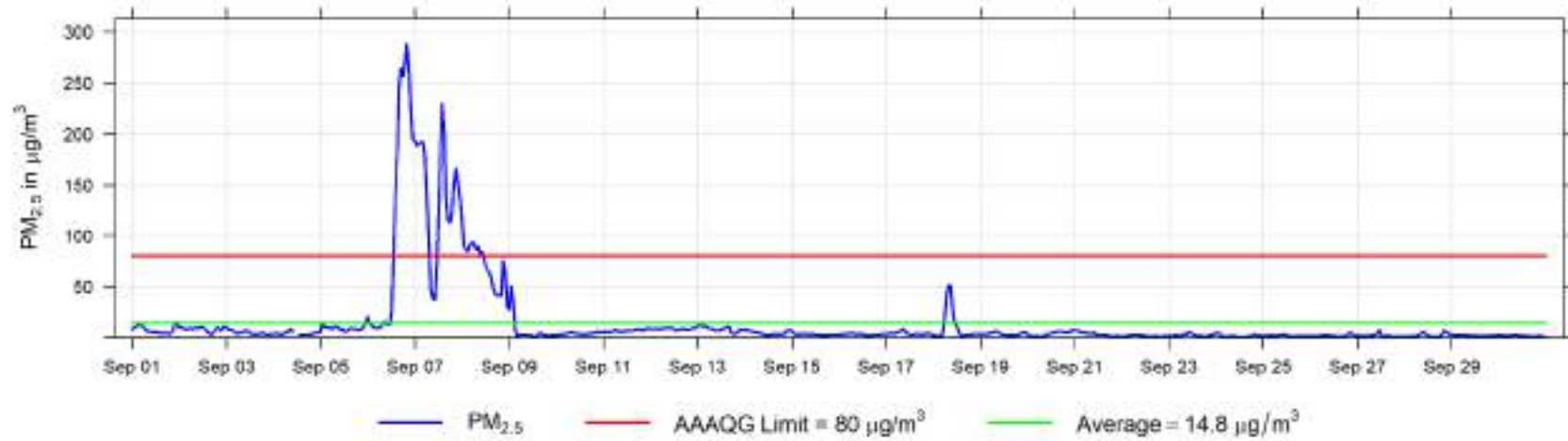
September 2024 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



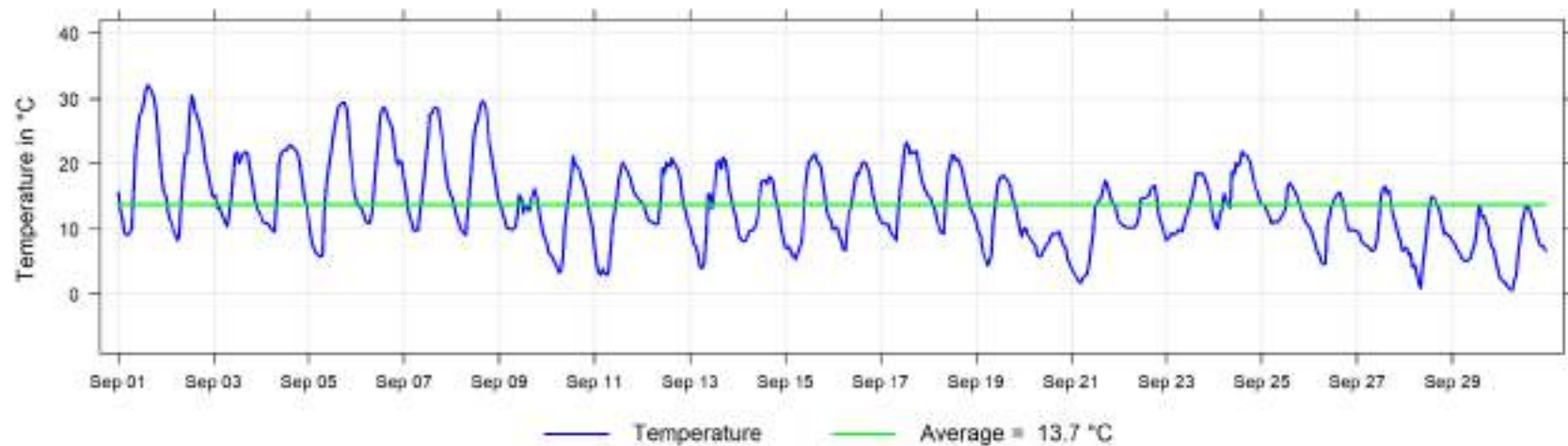
September 2024 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



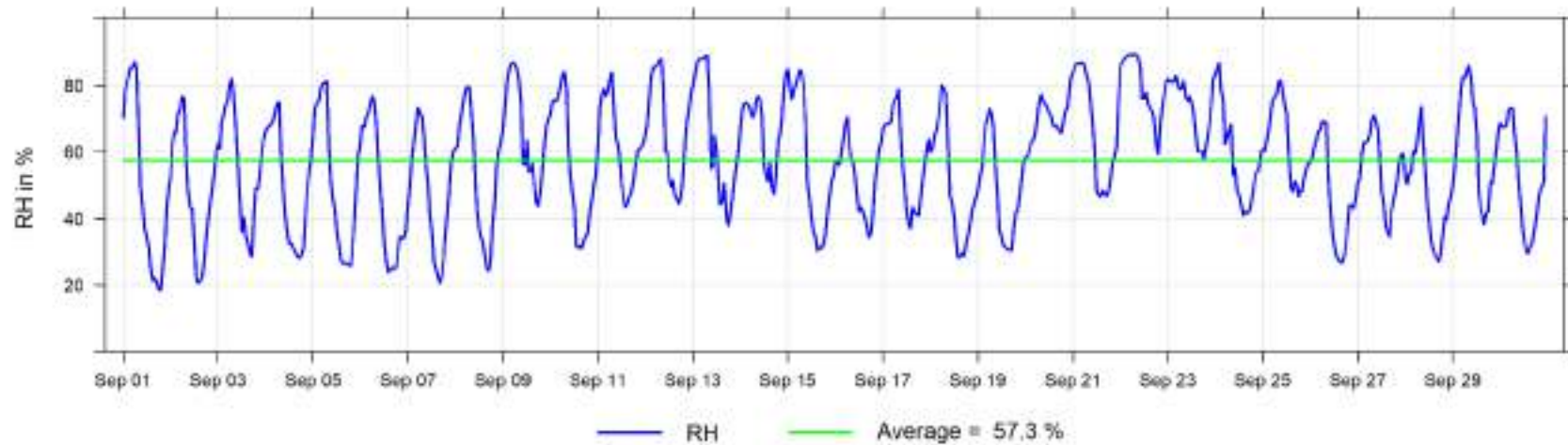
September 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



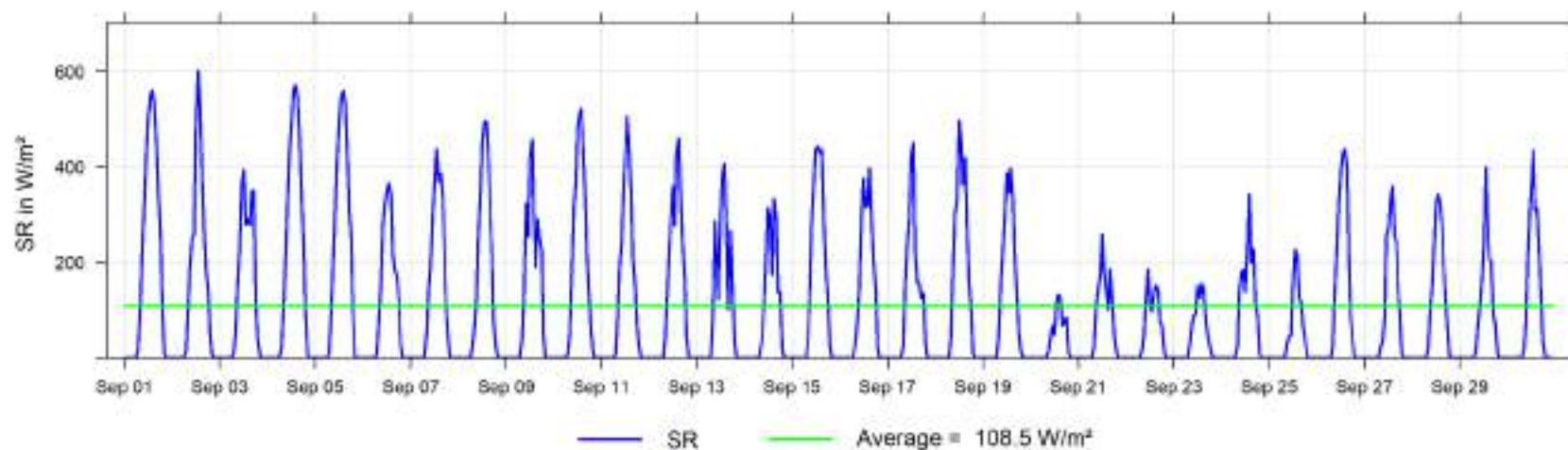
September 2024 Hourly Temperature Readings (in °C) at Henry Pirker



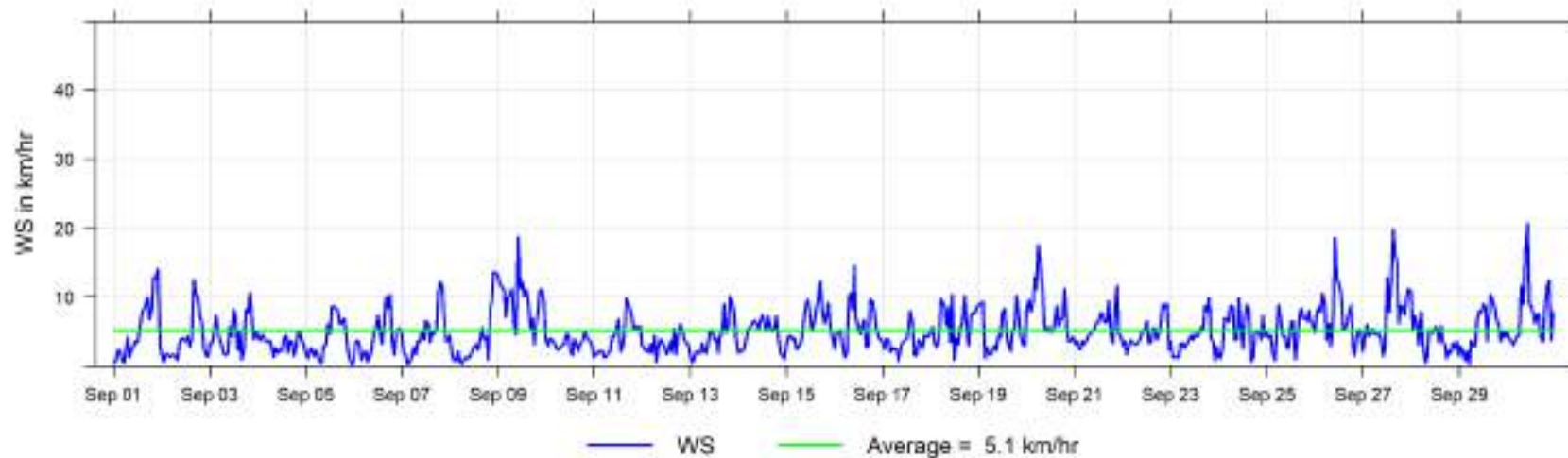
September 2024 Hourly Readings of Relative Humidity (in %) at Henry Pirker



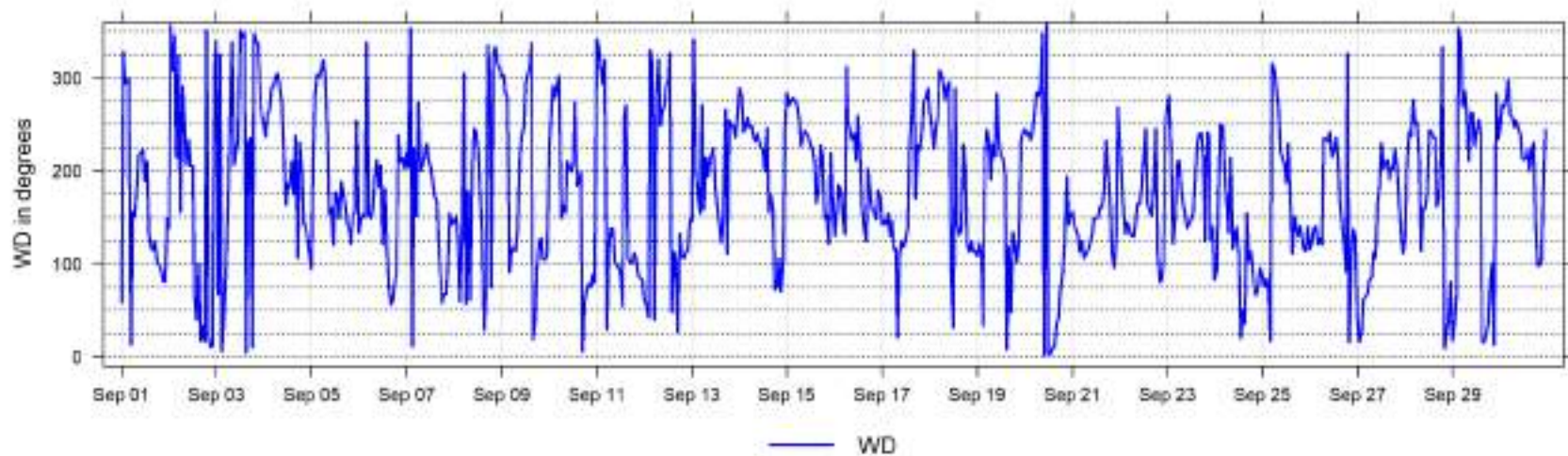
September 2024 Hourly Readings of Solar Radiation (in W/m^2) at Henry Pirker



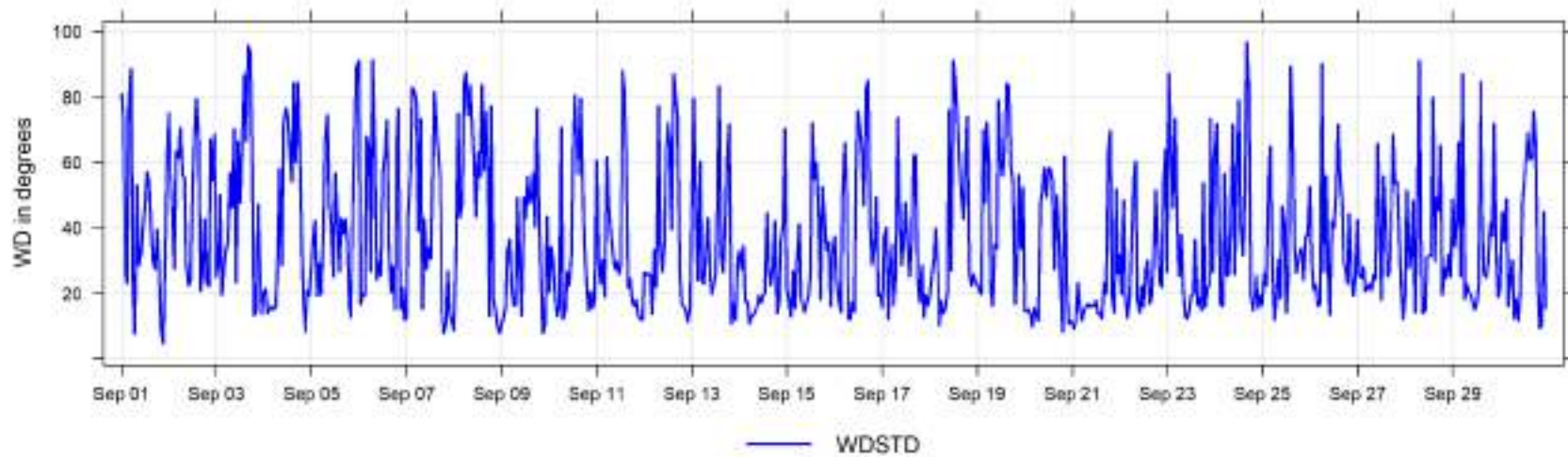
September 2024 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

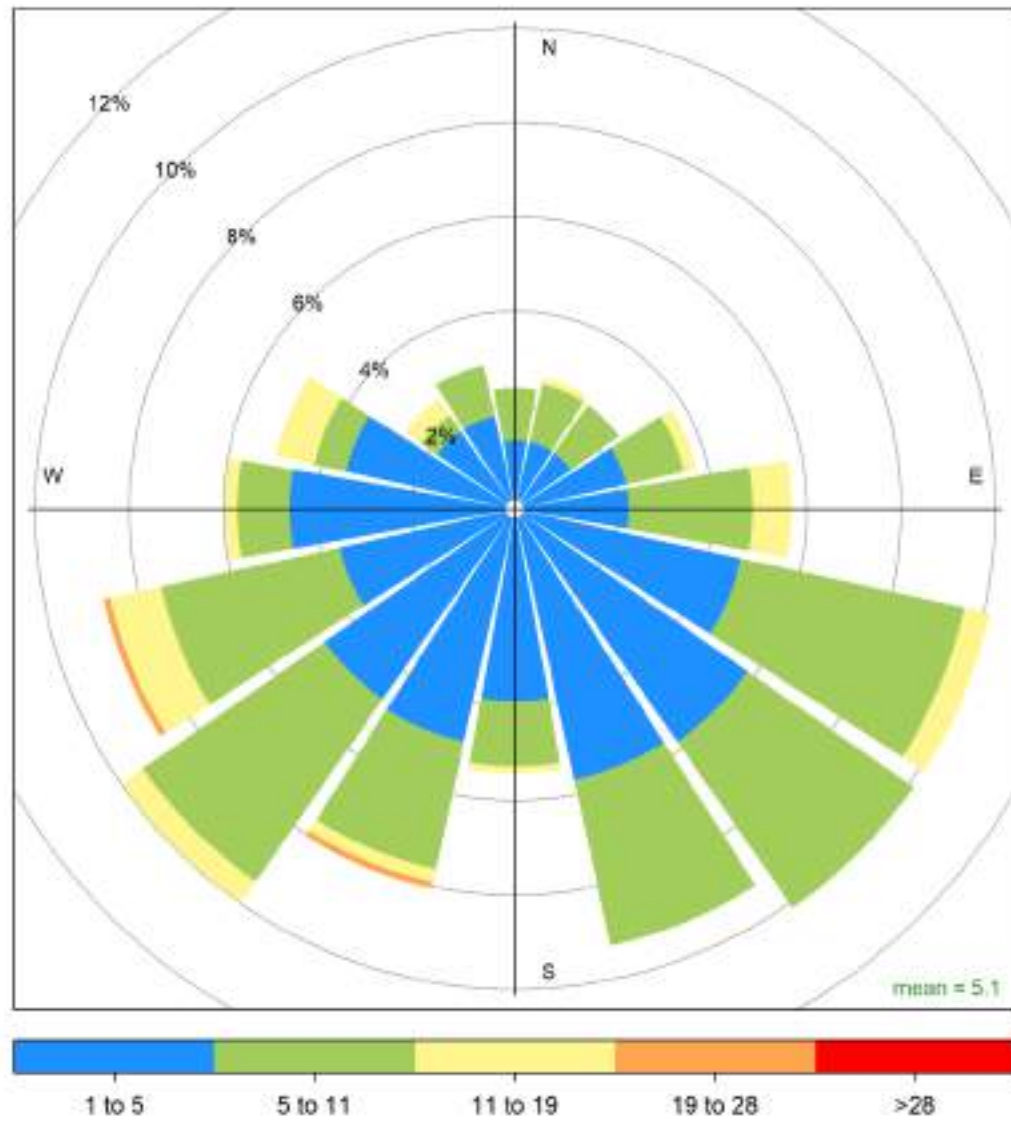


September 2024 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



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

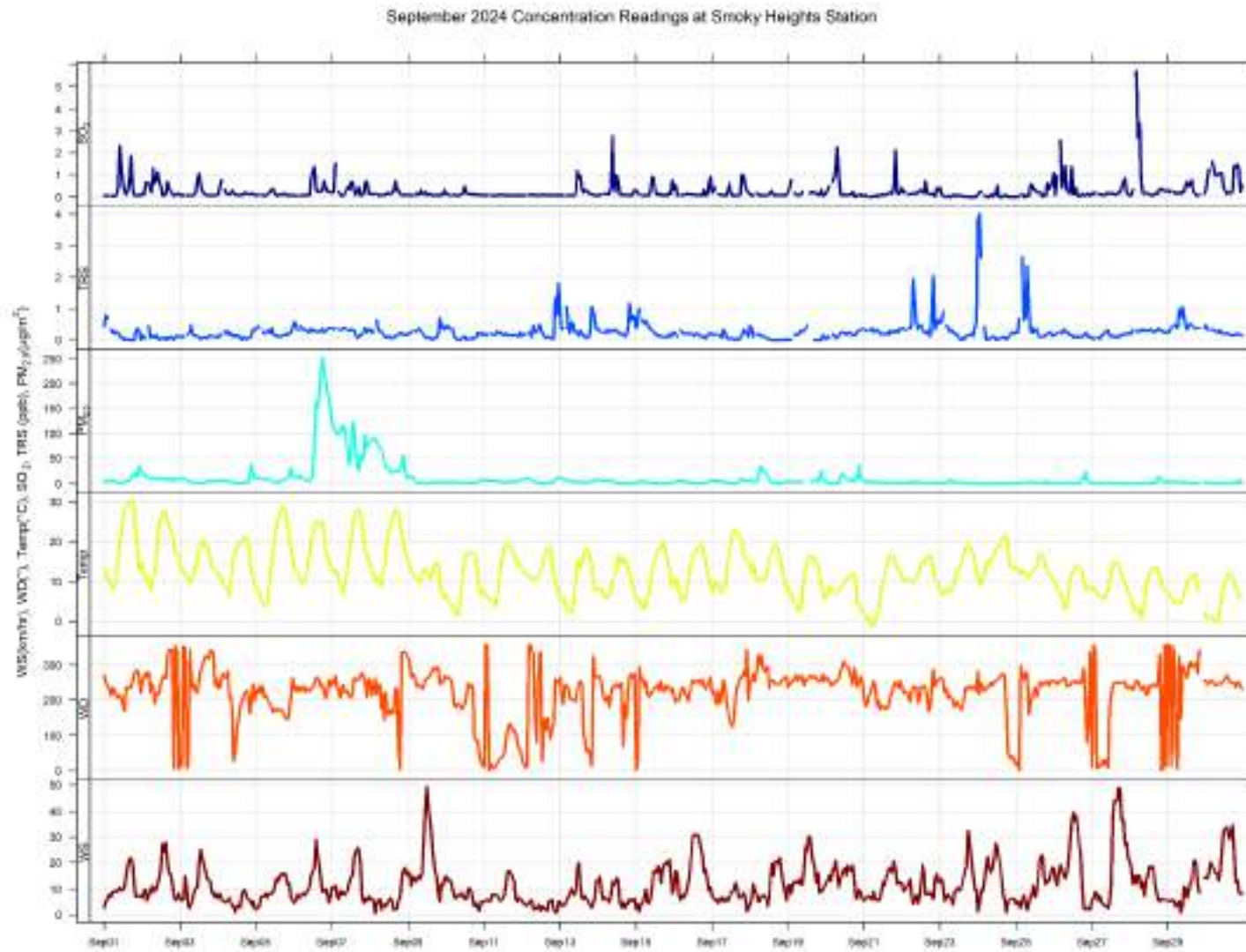




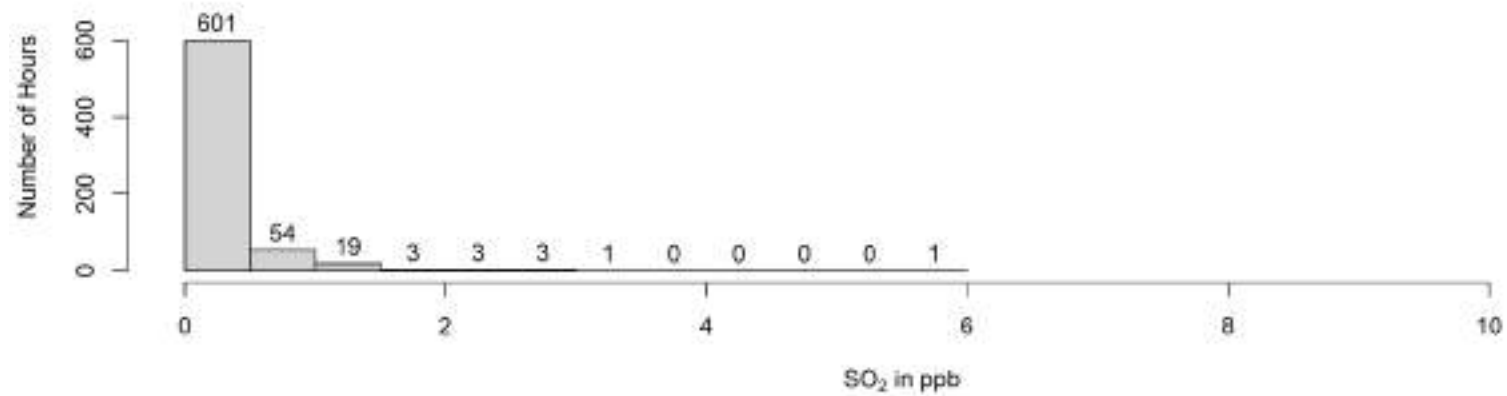
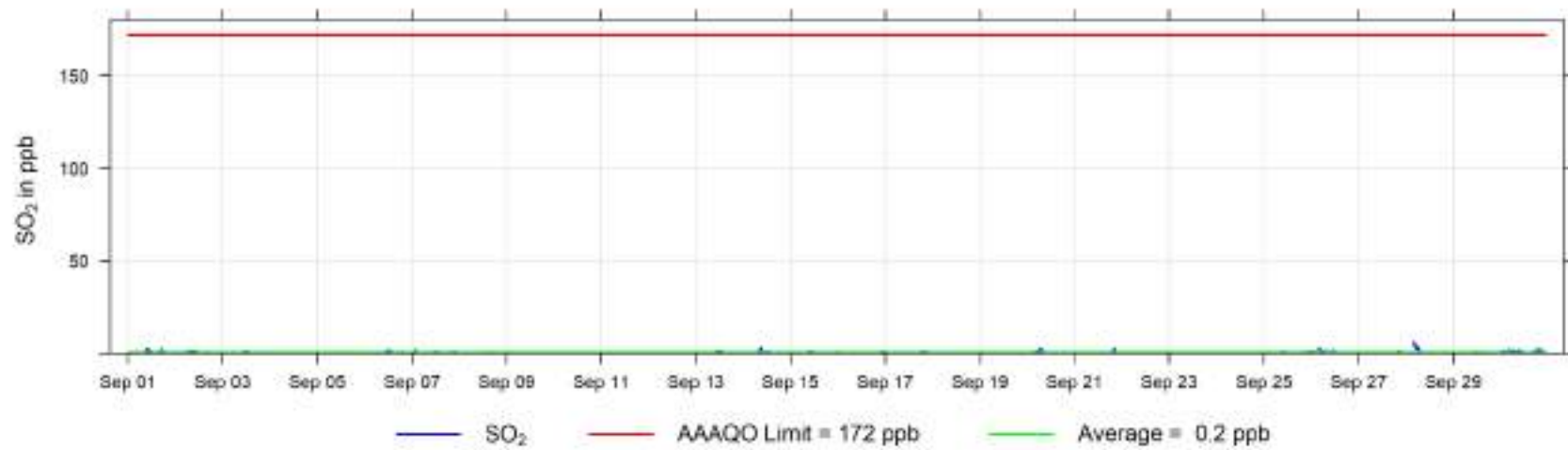
Henry Pirker September 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 4.6 %

5 Smoky Heights Charts

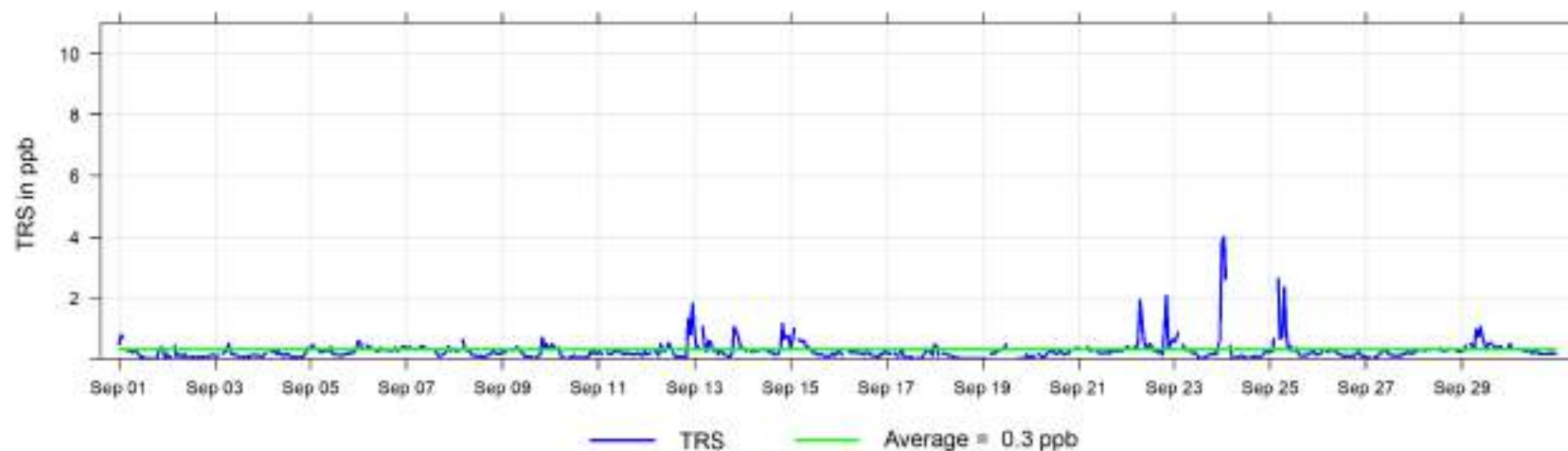
The following pages include the charts and histograms for Smoky Heights Station



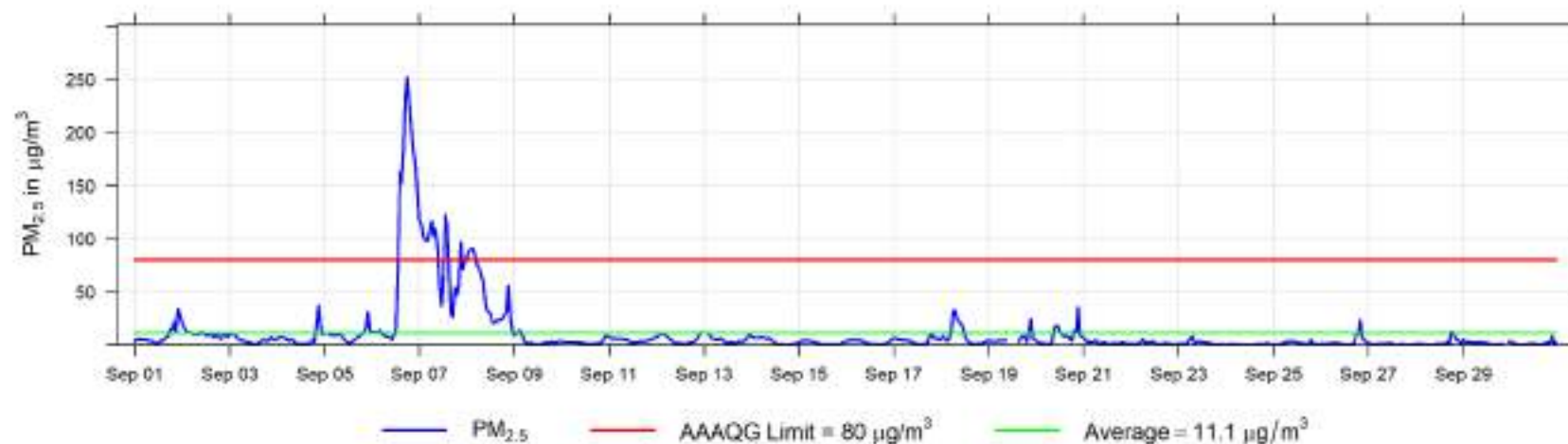
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights

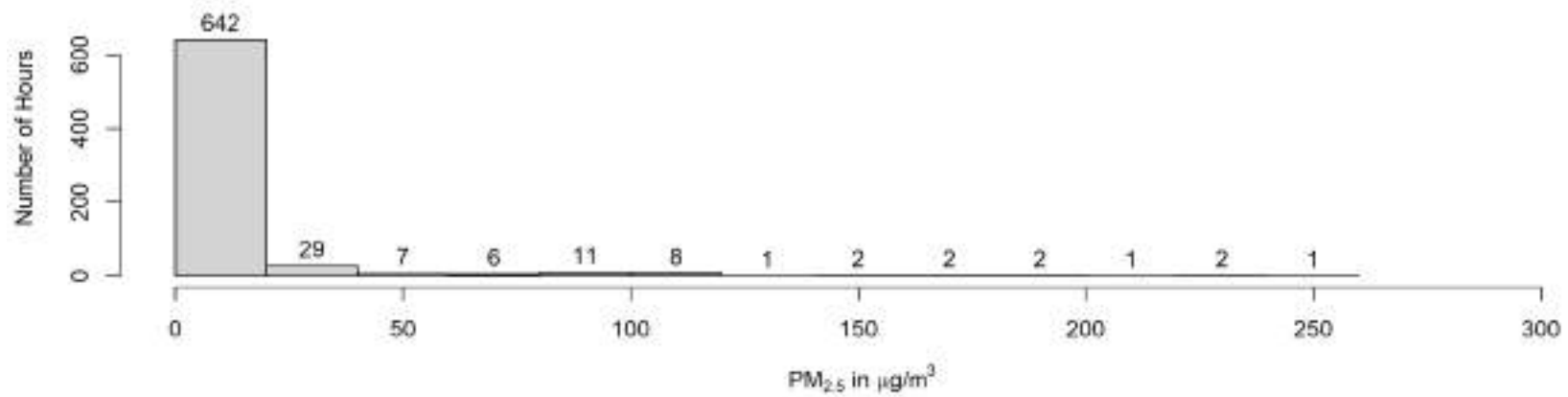


September 2024 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights

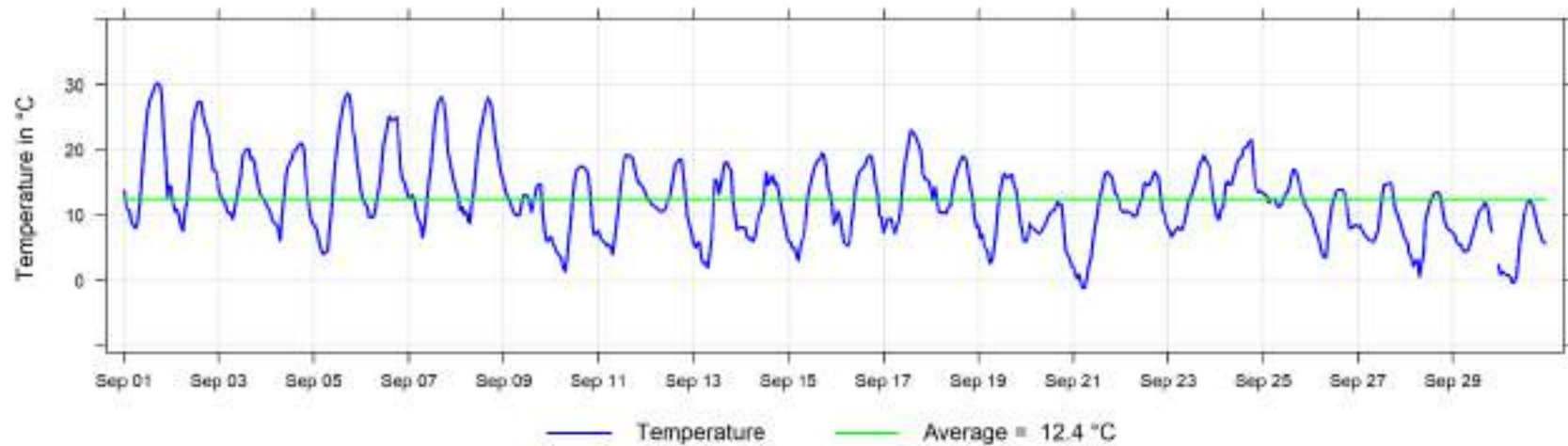


September 2024 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Smoky Heights

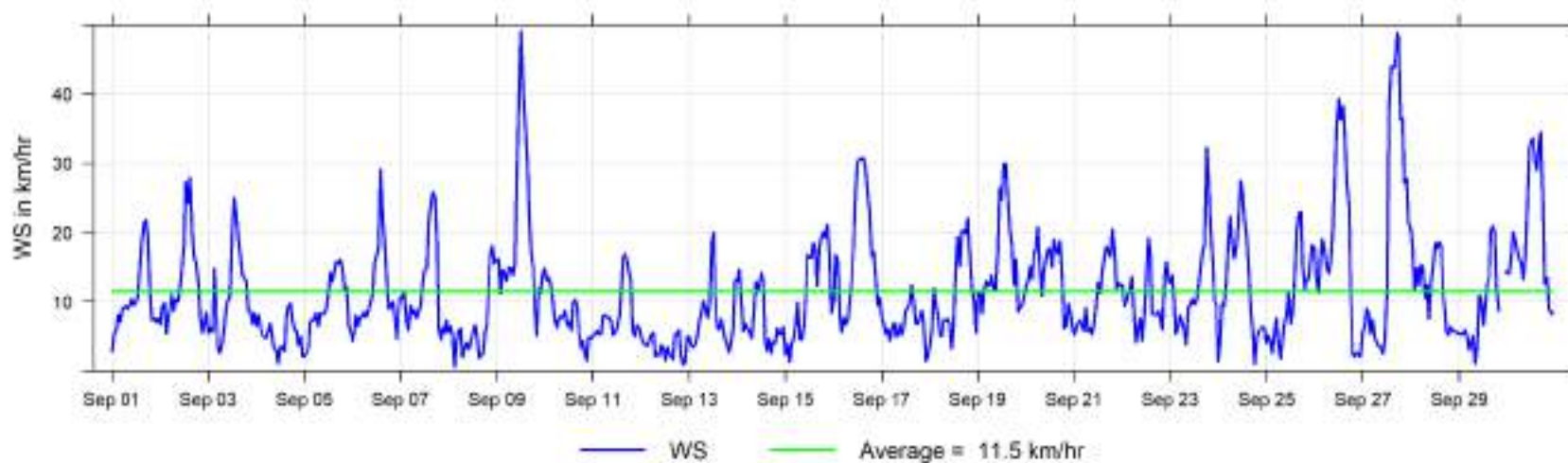




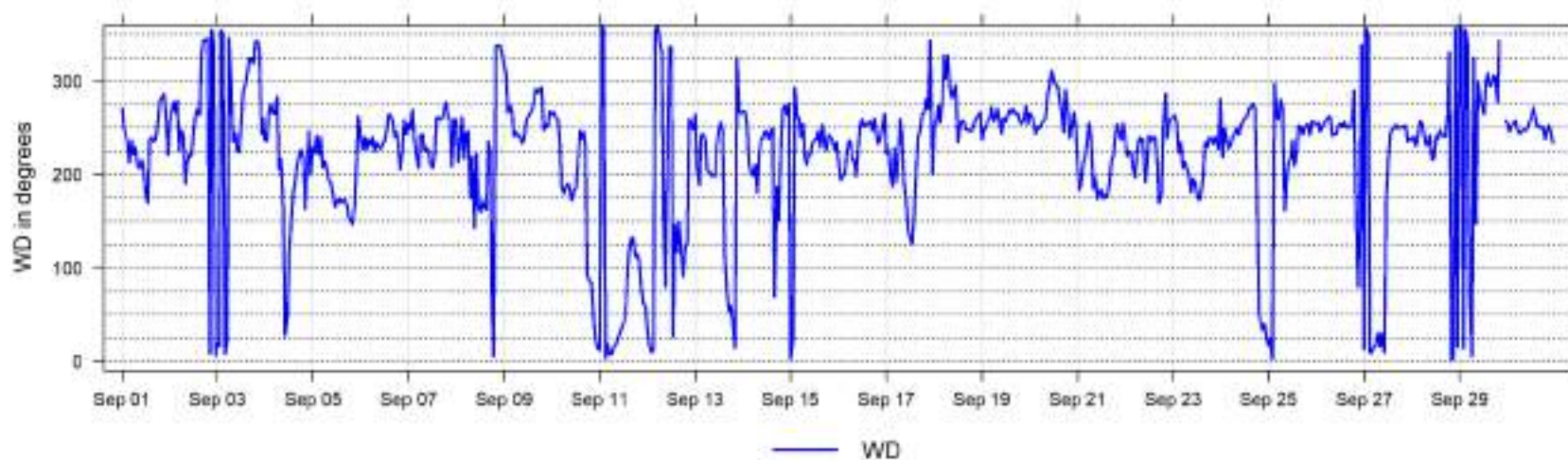
September 2024 Hourly Temperature Readings (in °C) at Smoky Heights



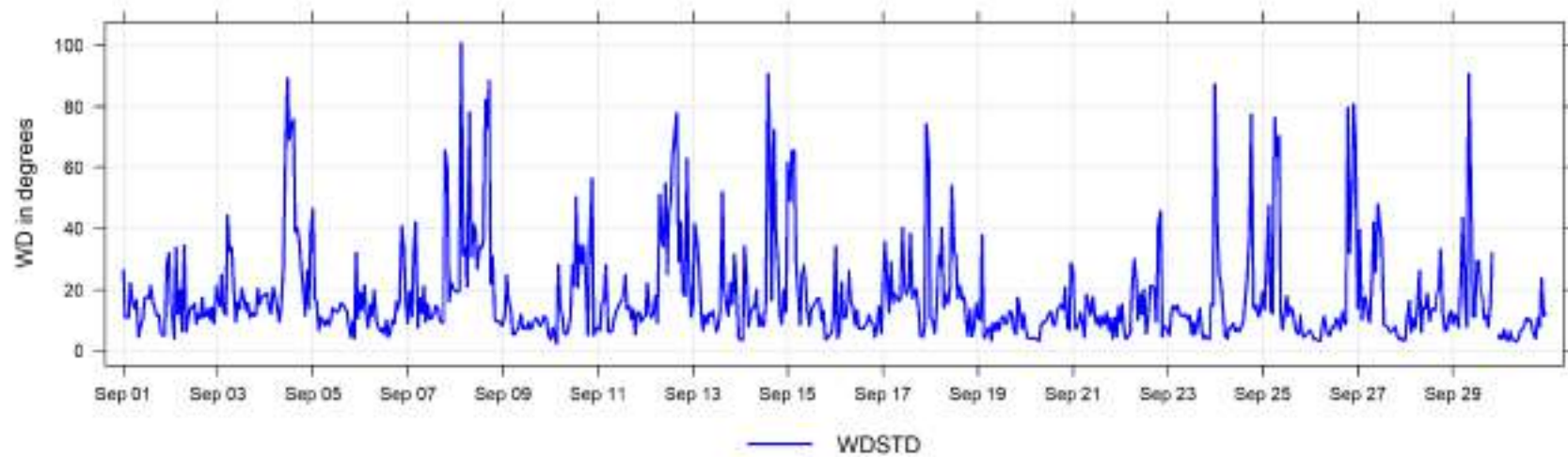
September 2024 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

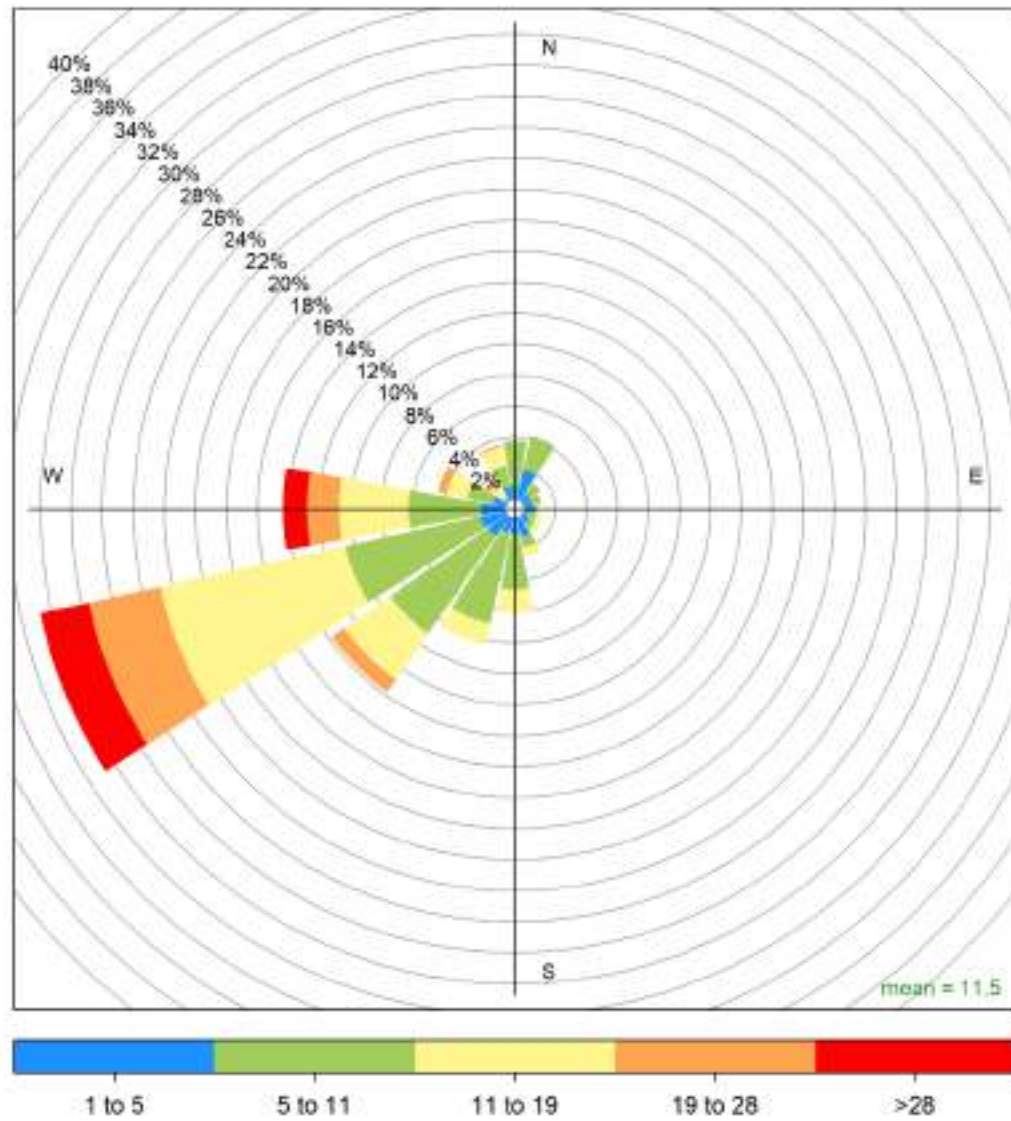


September 2024 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



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

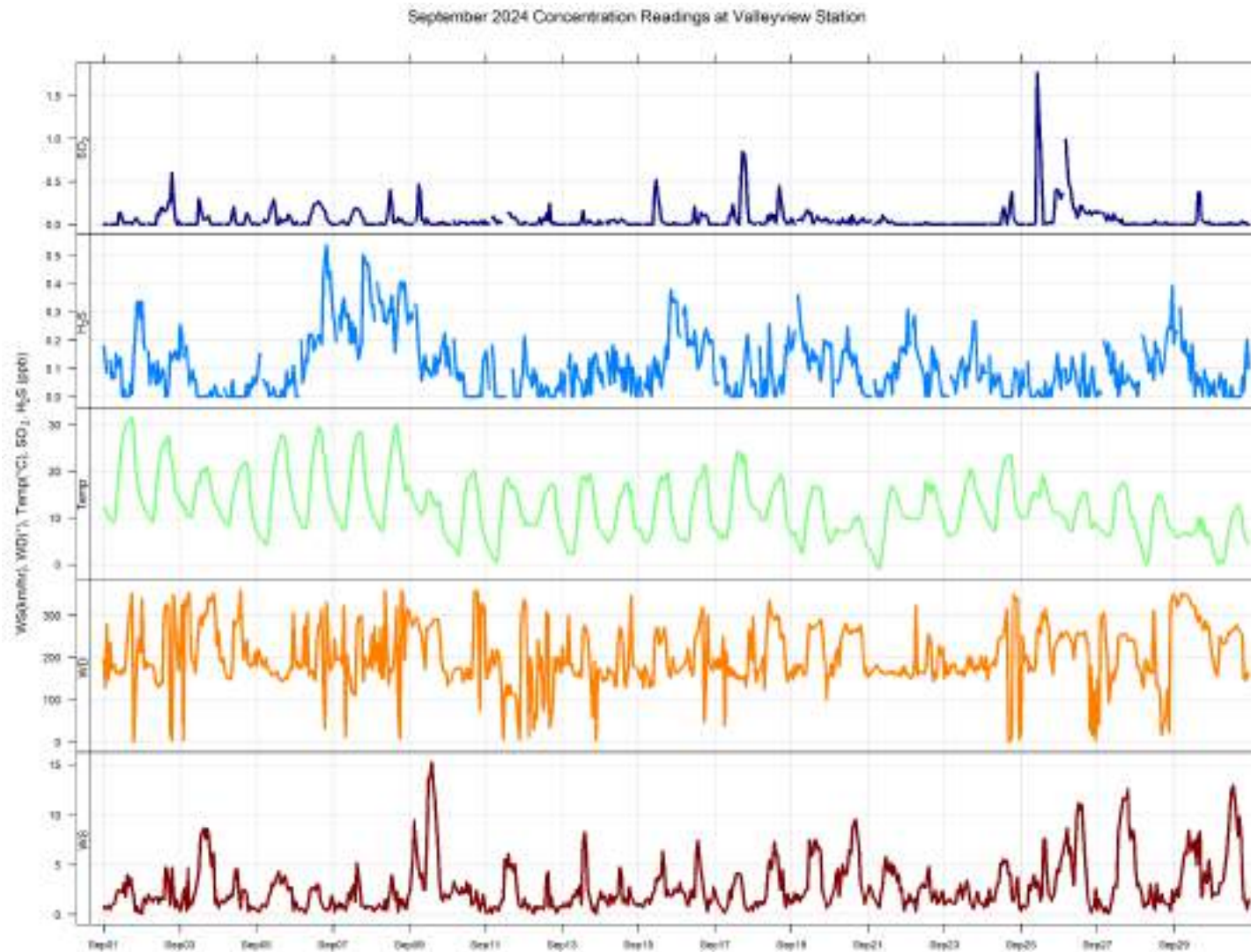




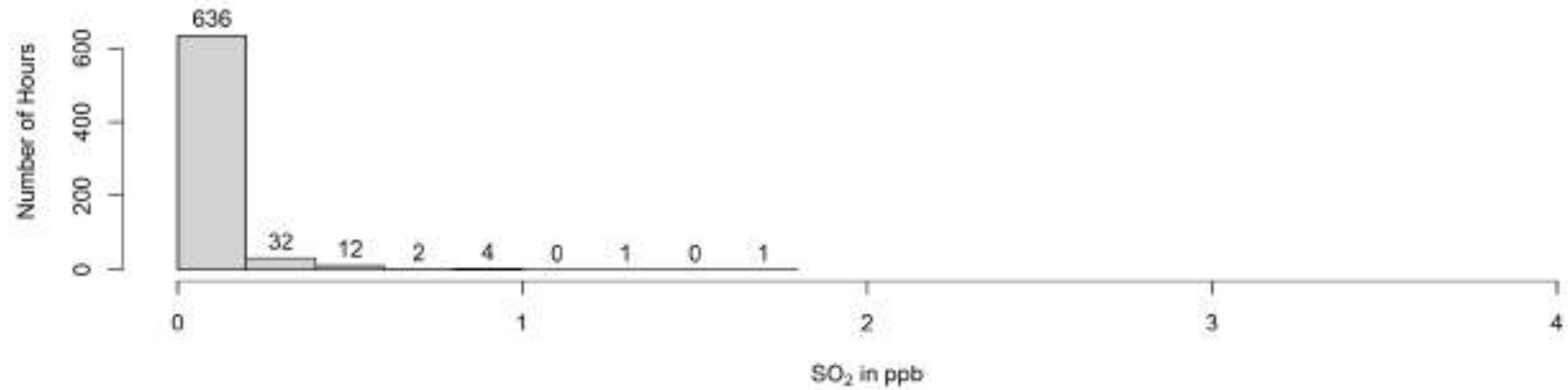
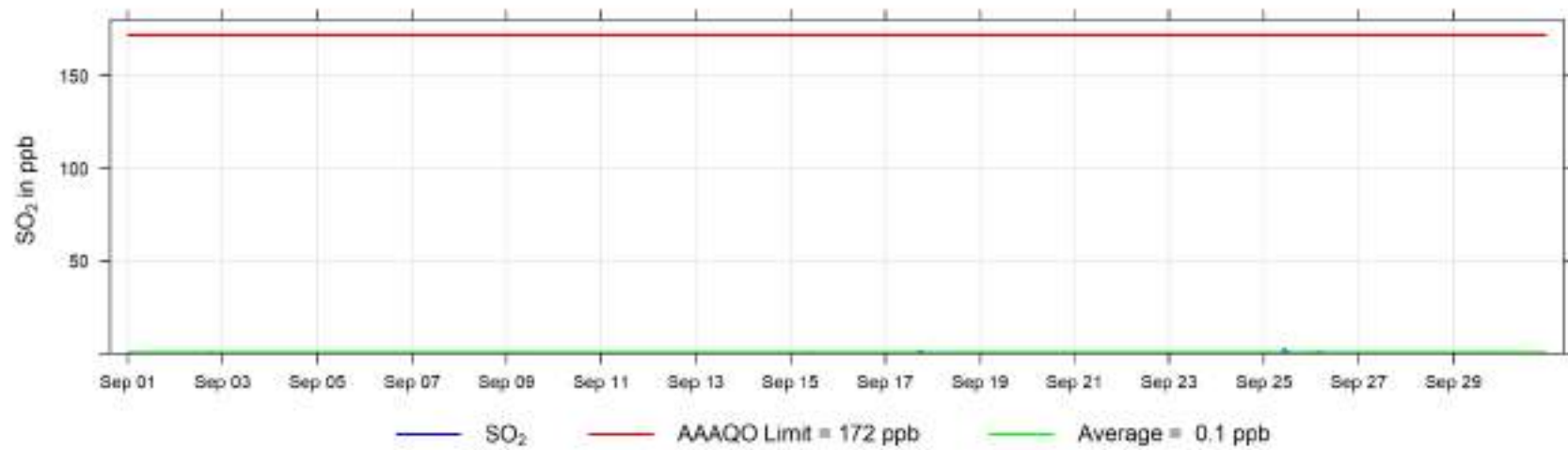
Smoky Heights September 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 0.4 %

6 Valleyview Charts

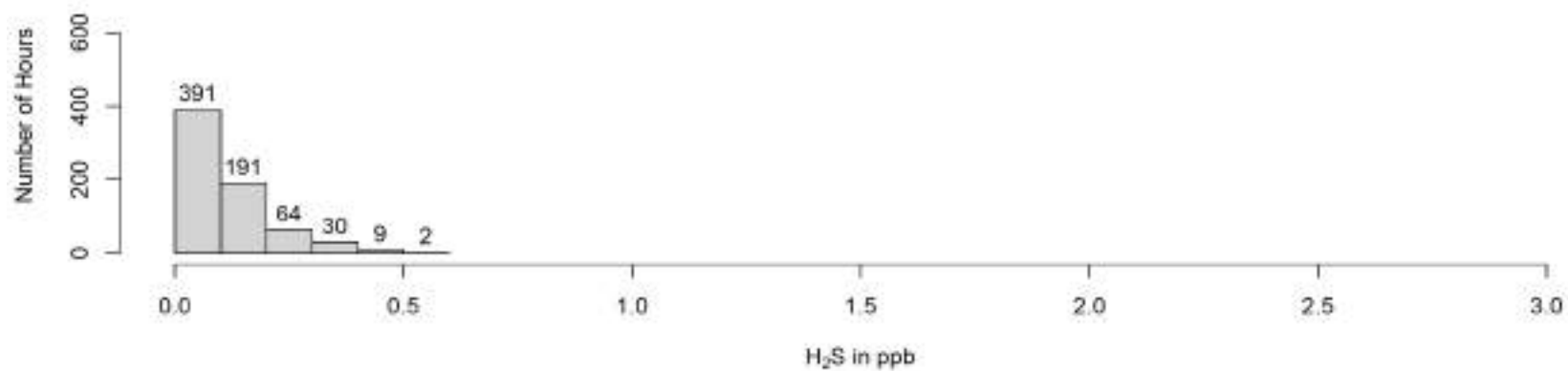
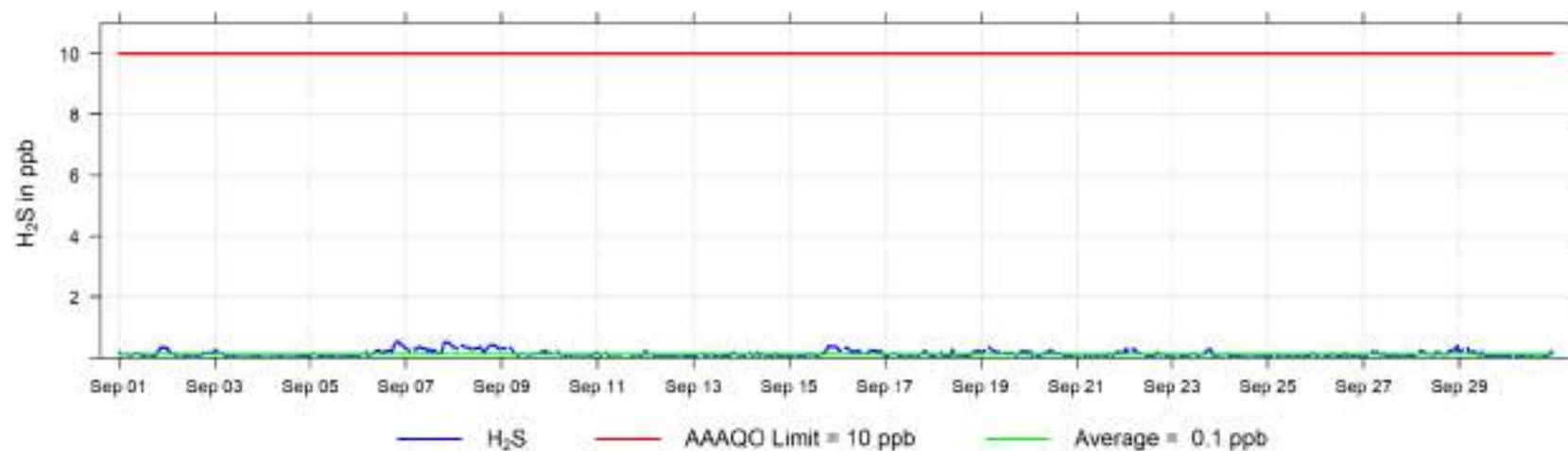
The following pages include the charts and histograms for Valleyview Station



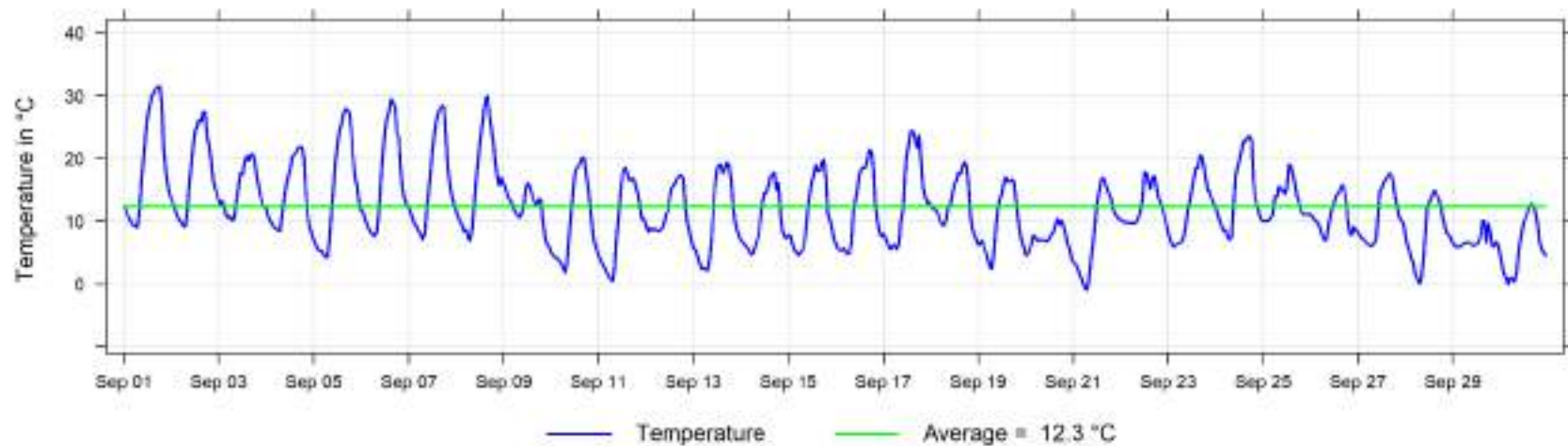
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



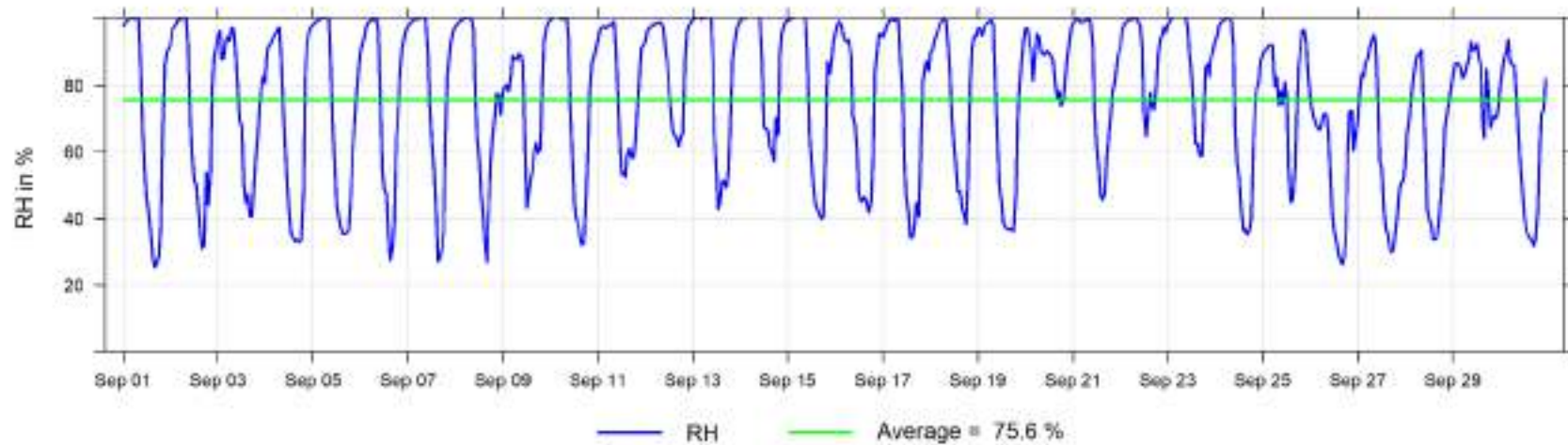
September 2024 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



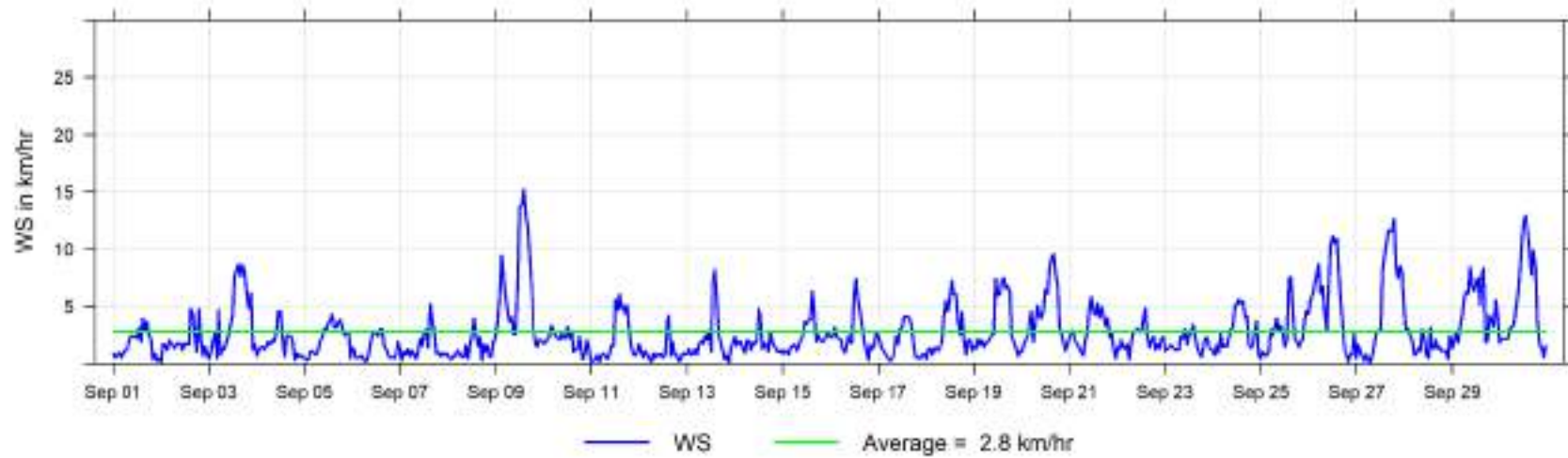
September 2024 Hourly Temperature Readings (in °C) at Valleyview



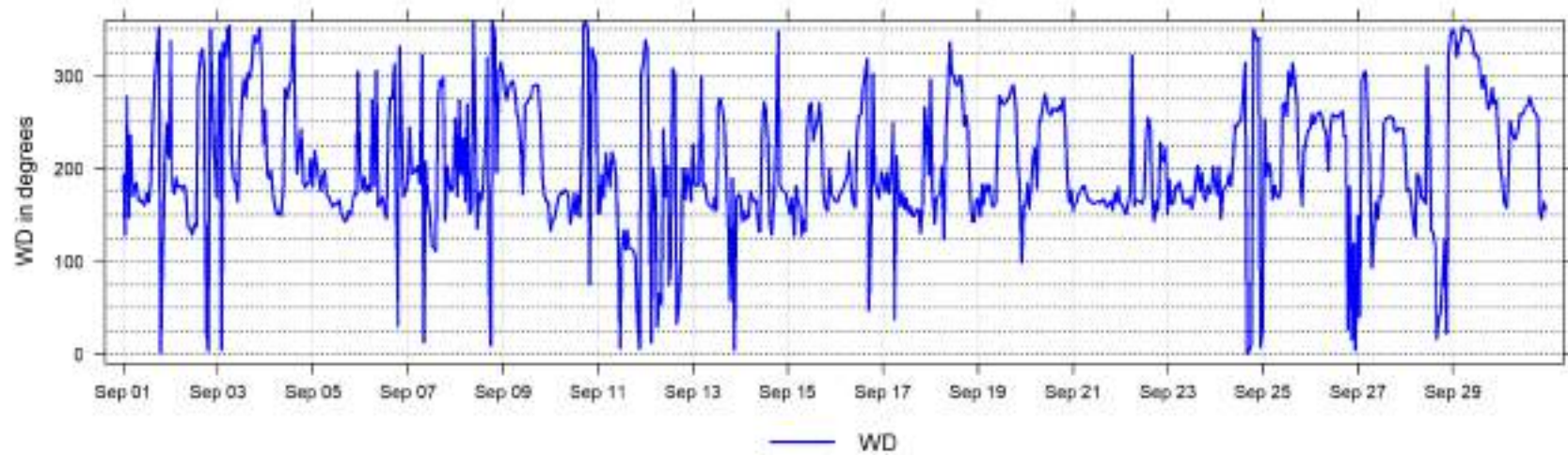
September 2024 Hourly Readings of Relative Humidity (in %) at Valleyview



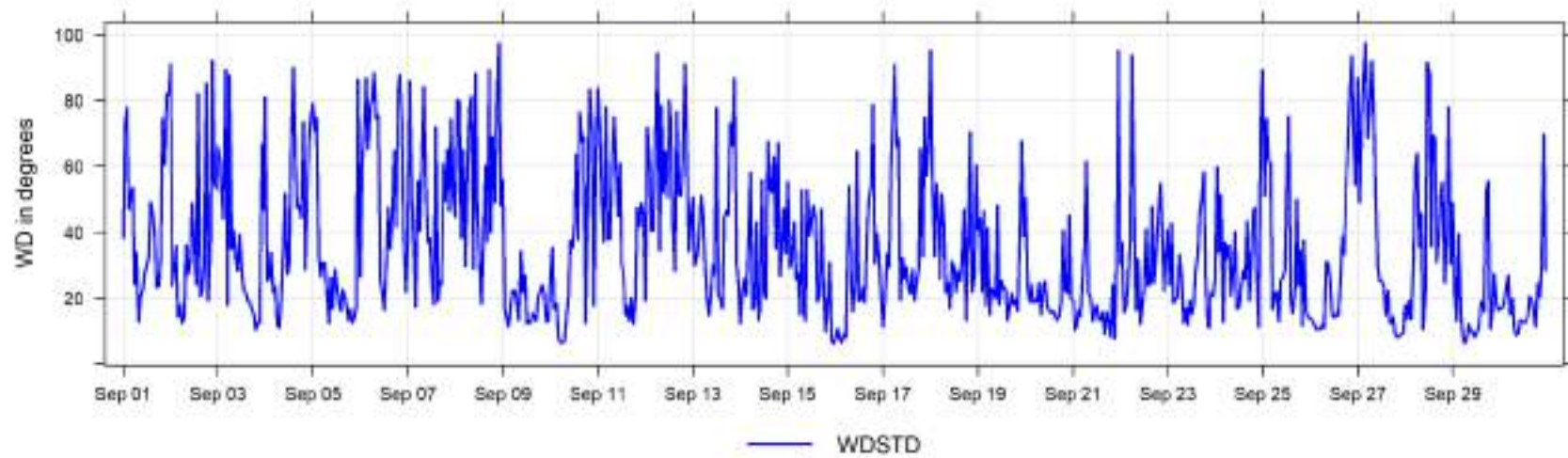
September 2024 Hourly Readings of Wind Speed (in km/hr) at Valleyview

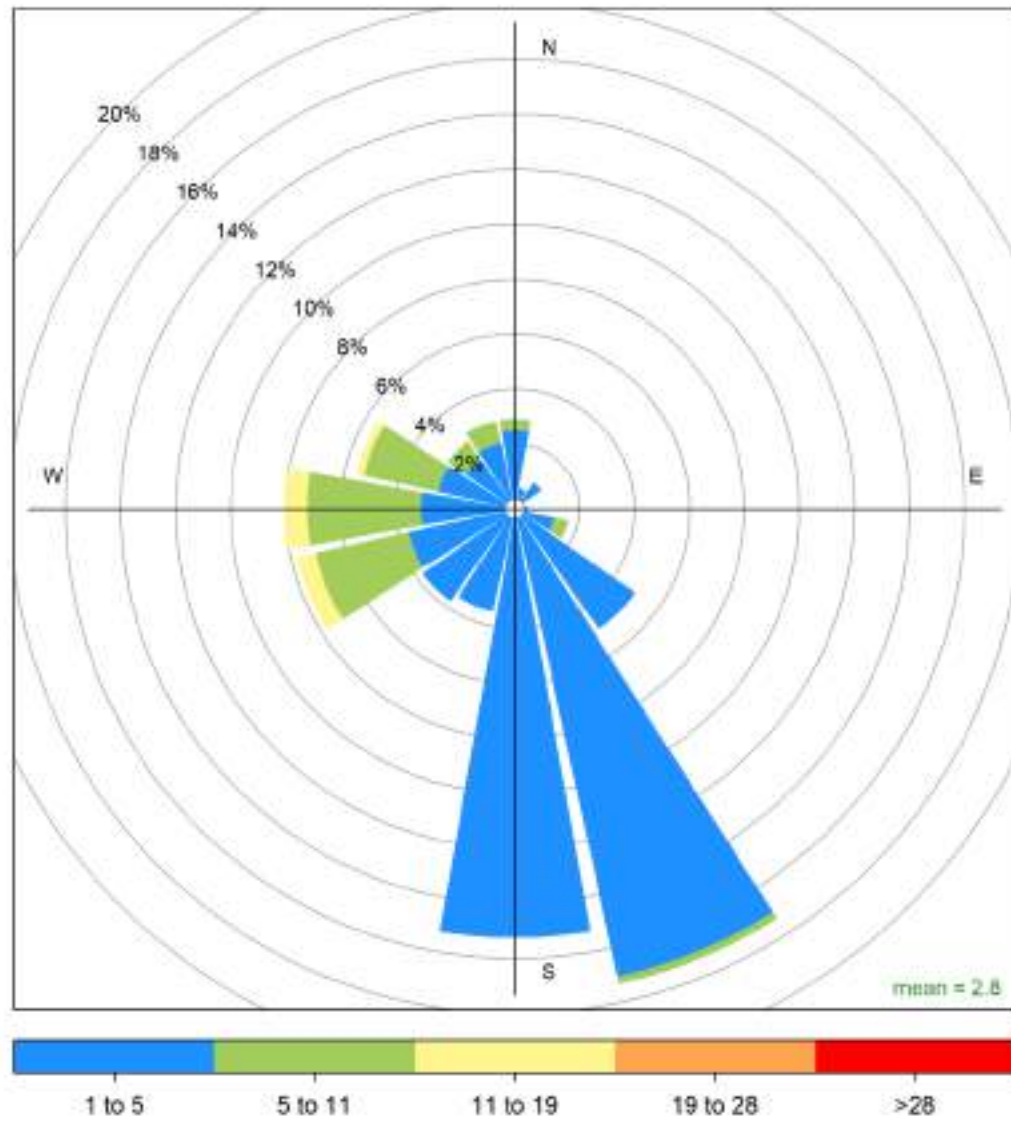


September 2024 Hourly Readings of Wind Direction (in degrees) at Valleyview



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





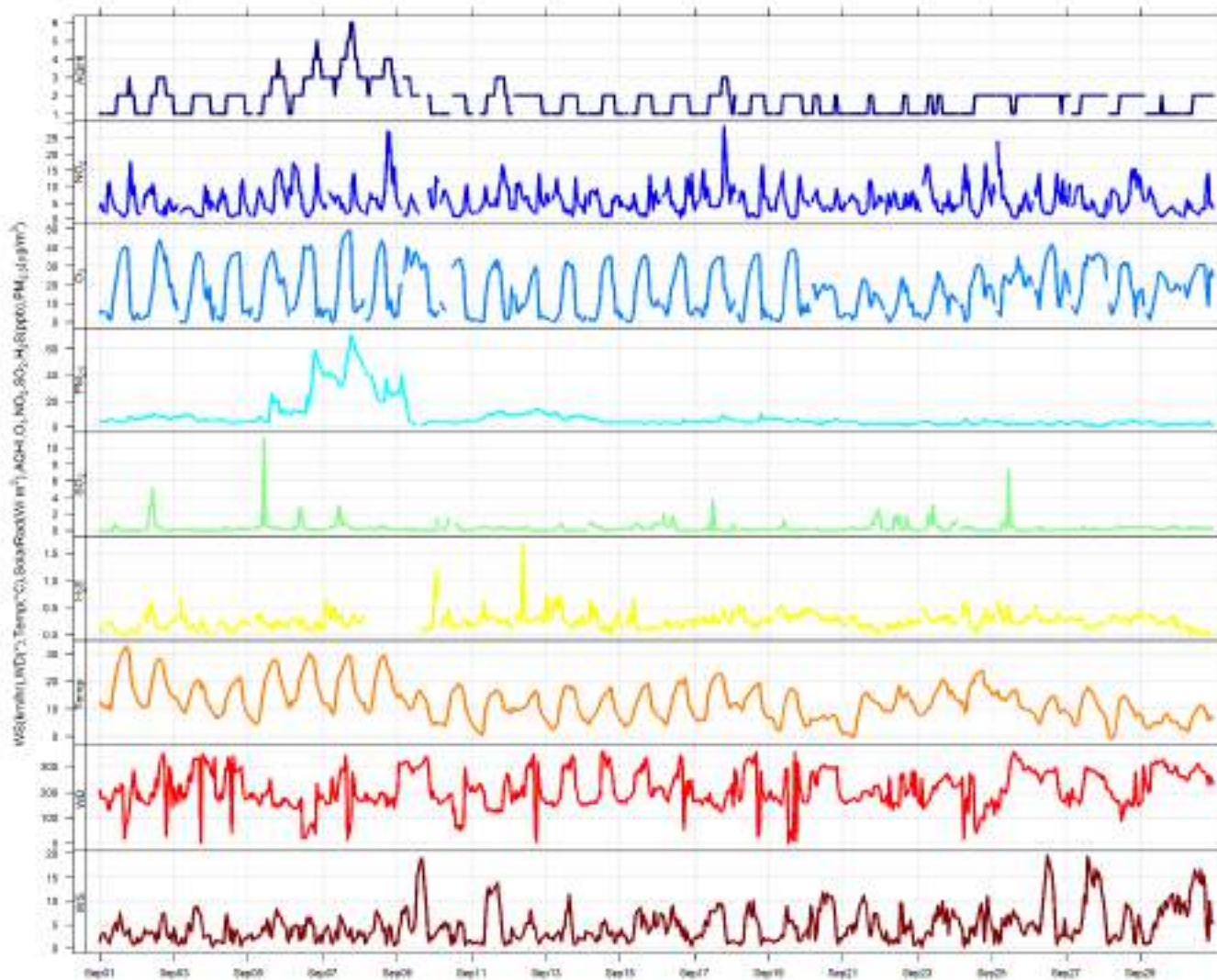
Valleyview September 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 22.3 %

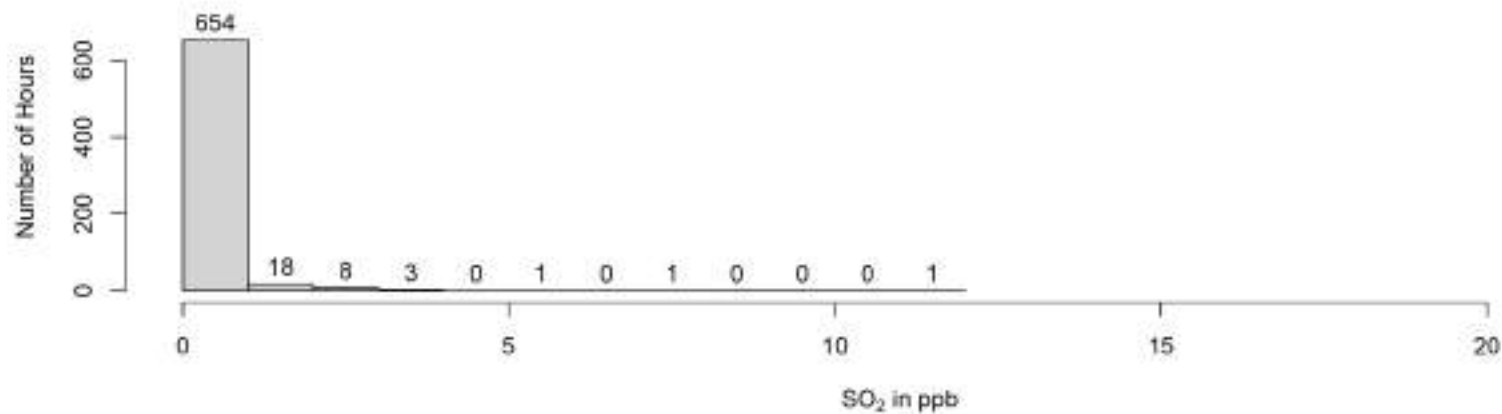
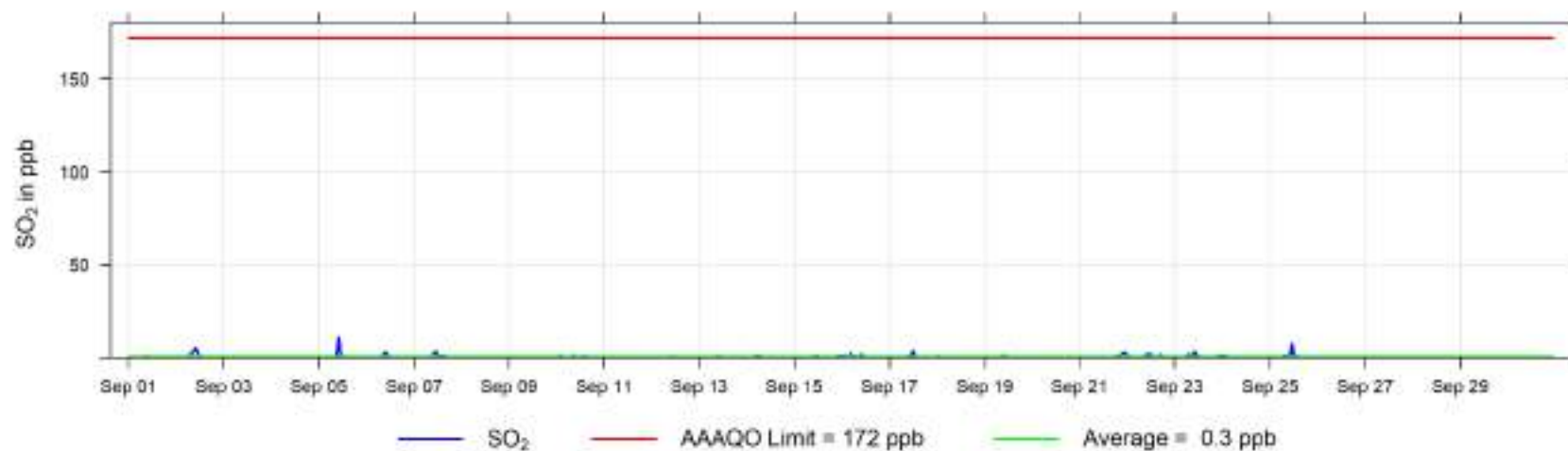
7 Fox Creek Charts

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

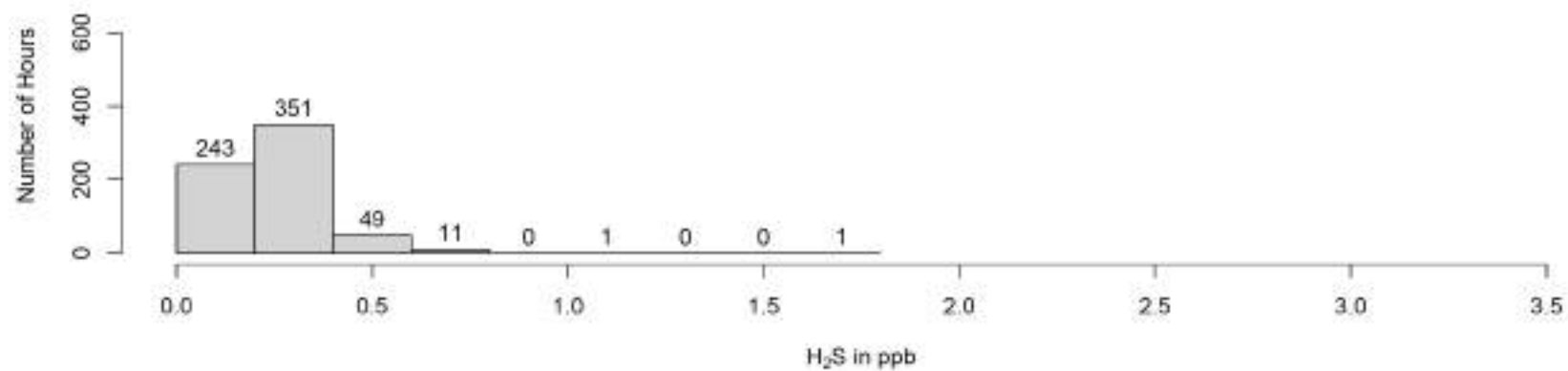
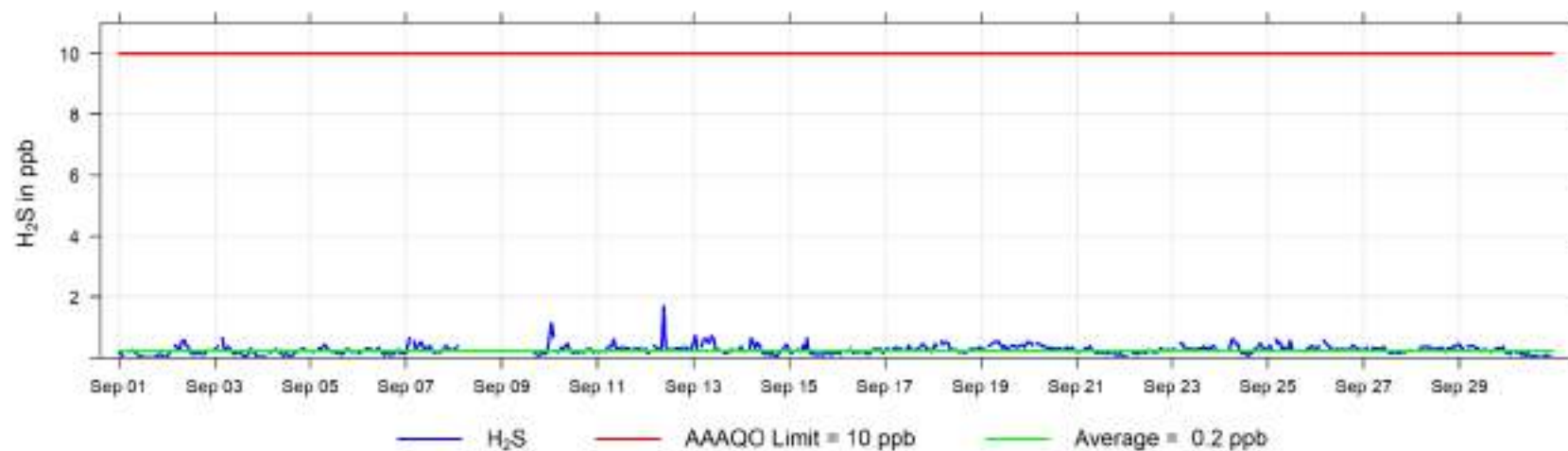
September 2024 Concentration Readings at Fox Creek Station



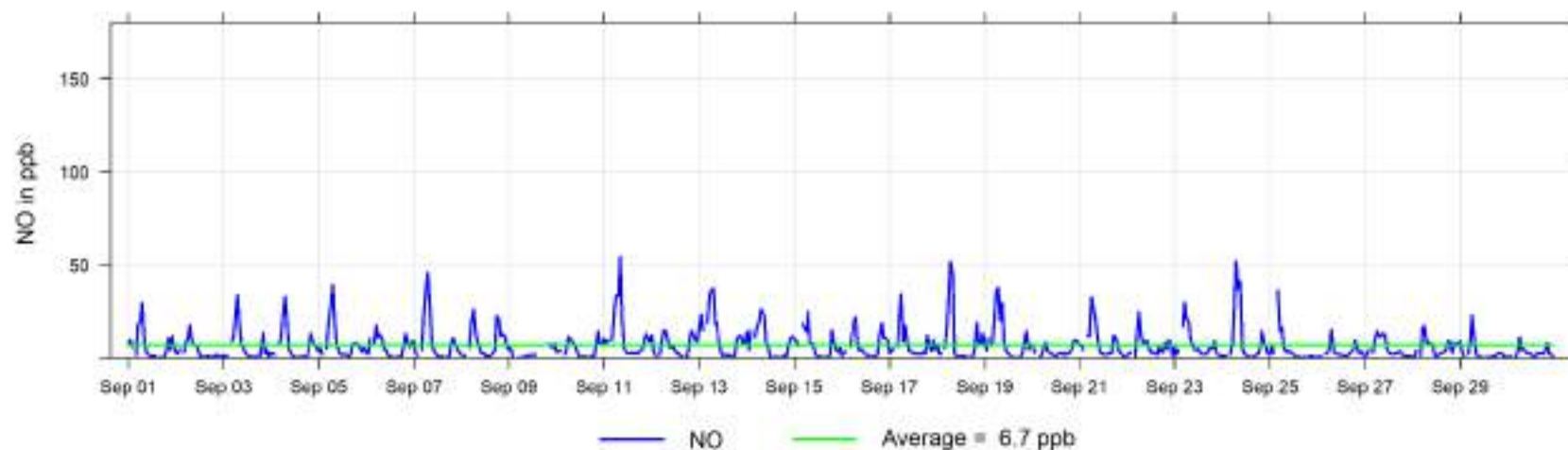
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



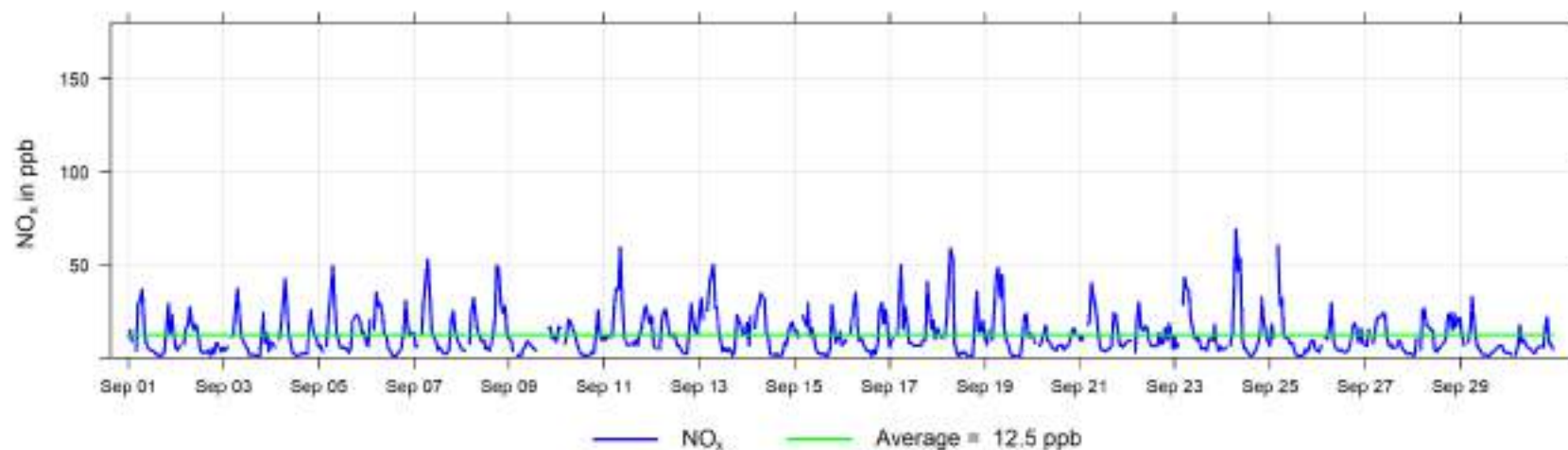
September 2024 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



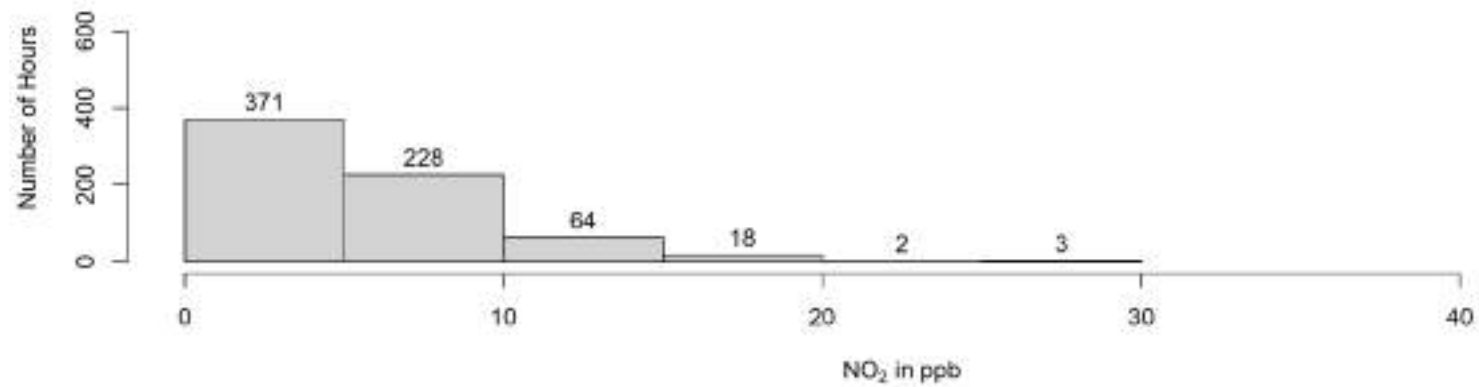
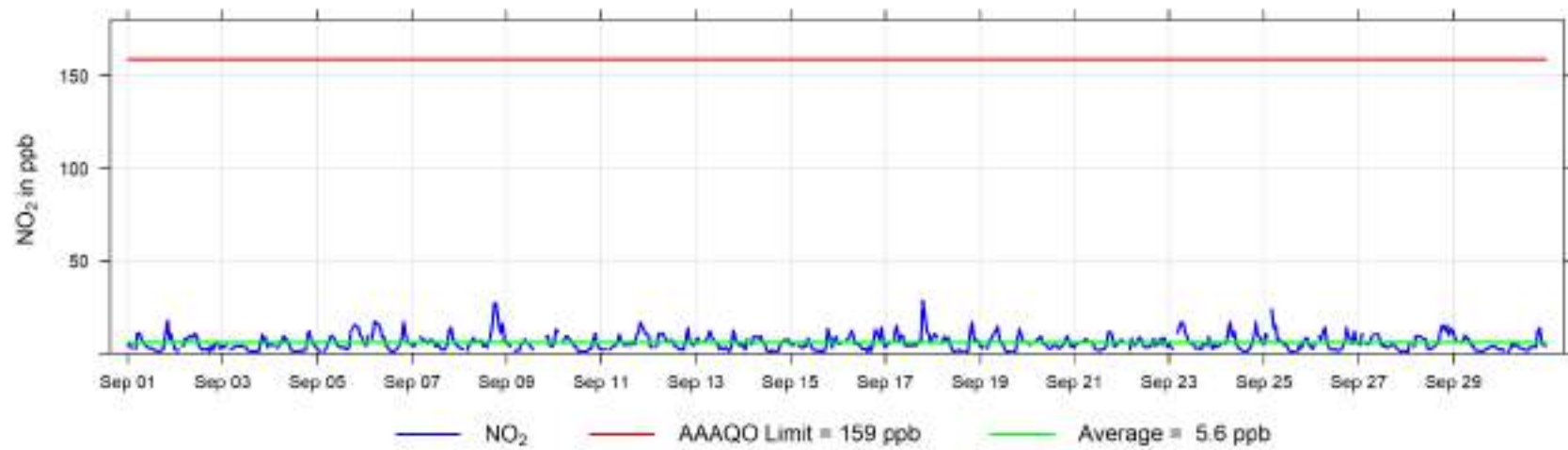
September 2024 Hourly Concentration Readings of NO (in ppb) at Fox Creek



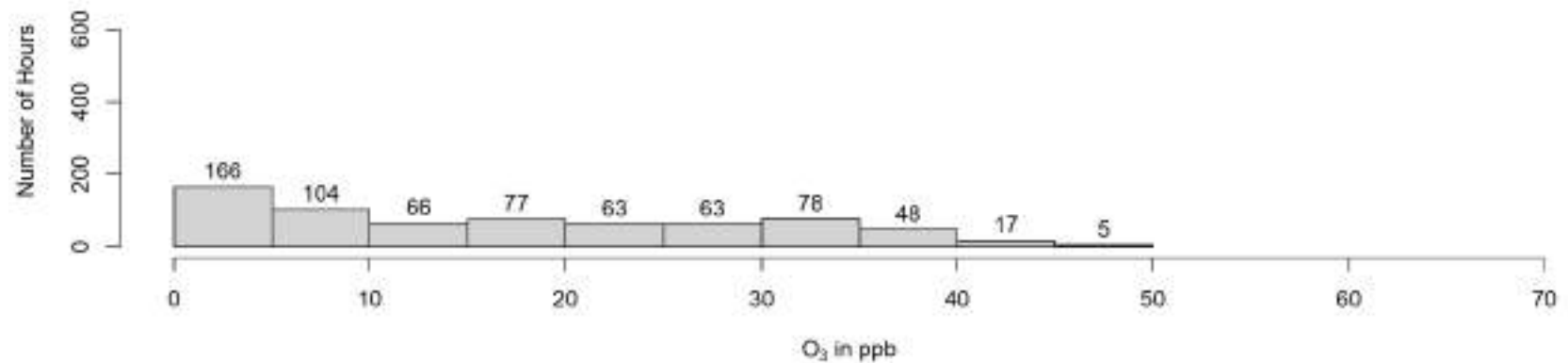
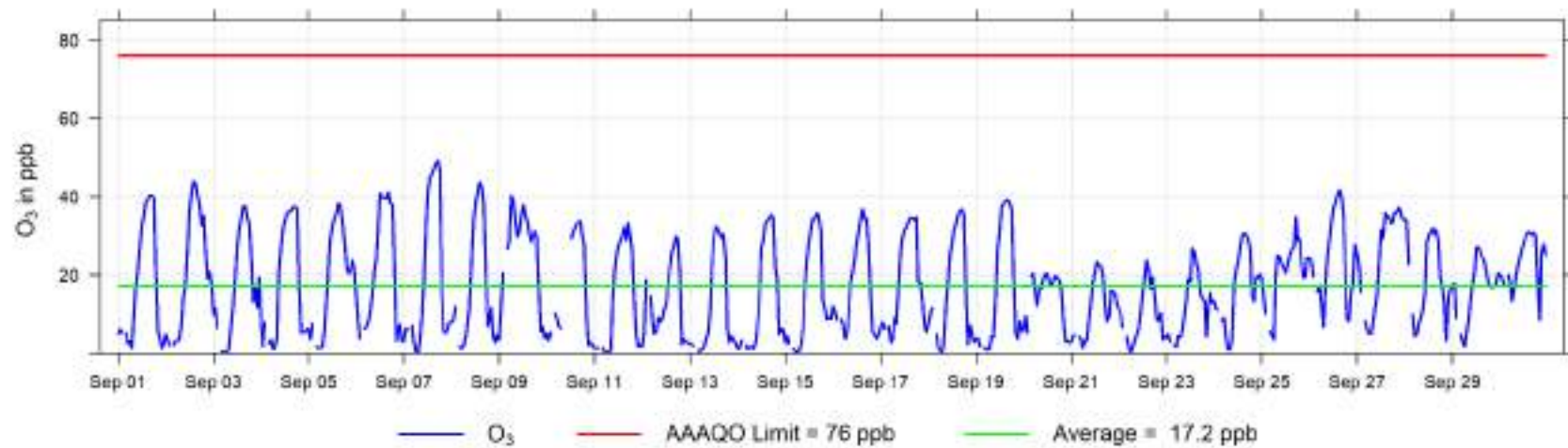
September 2024 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



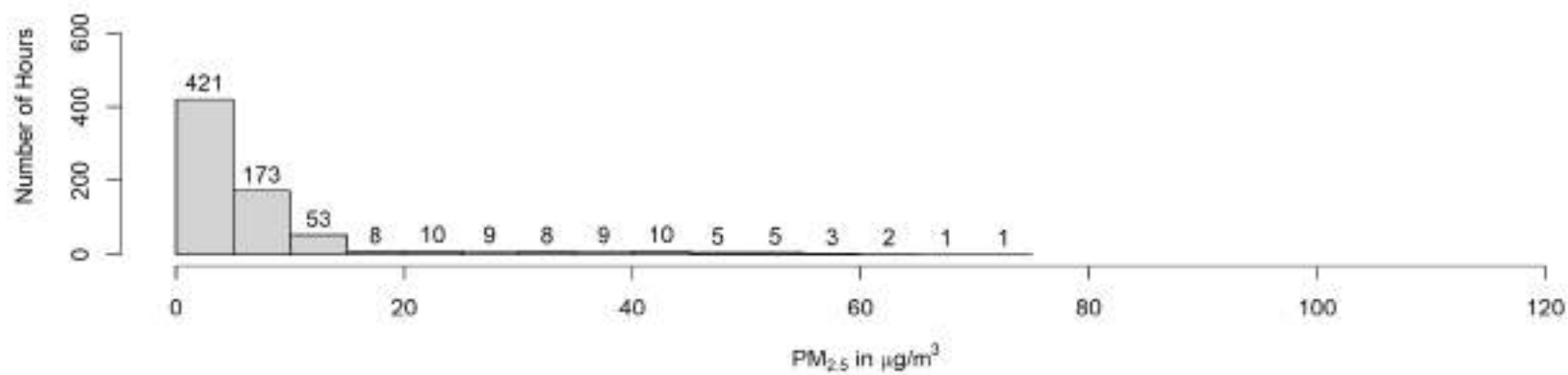
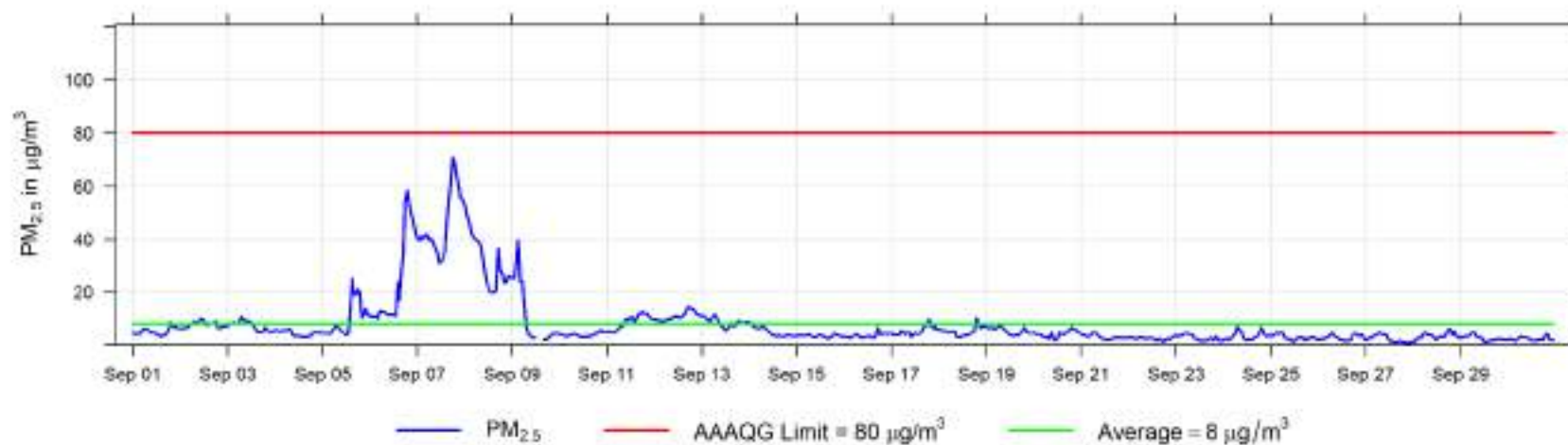
September 2024 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



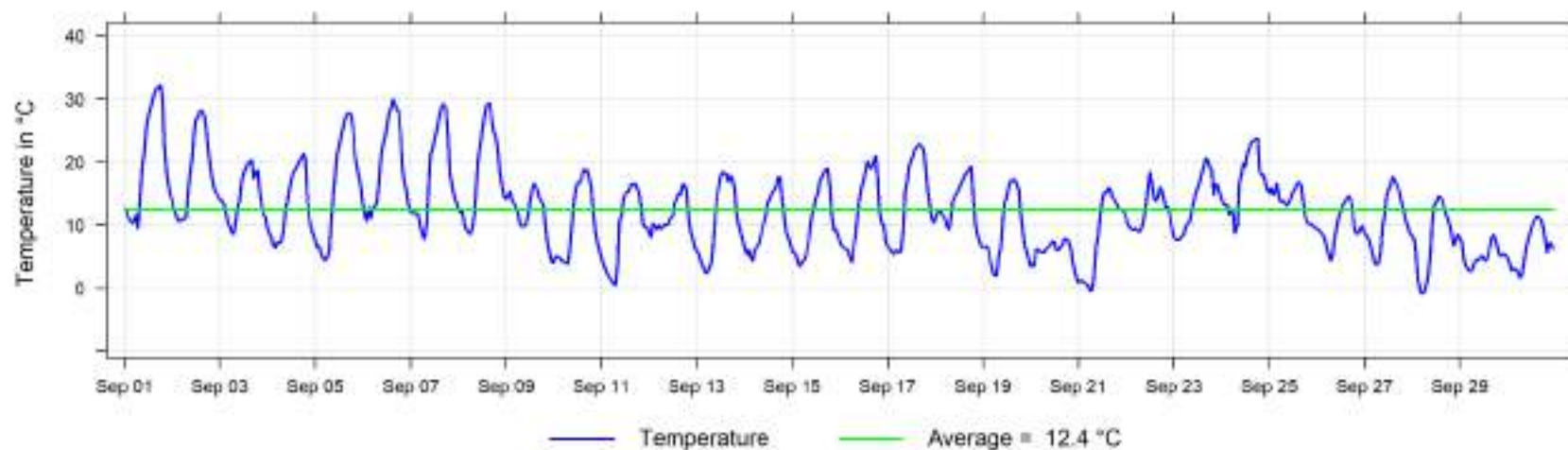
September 2024 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



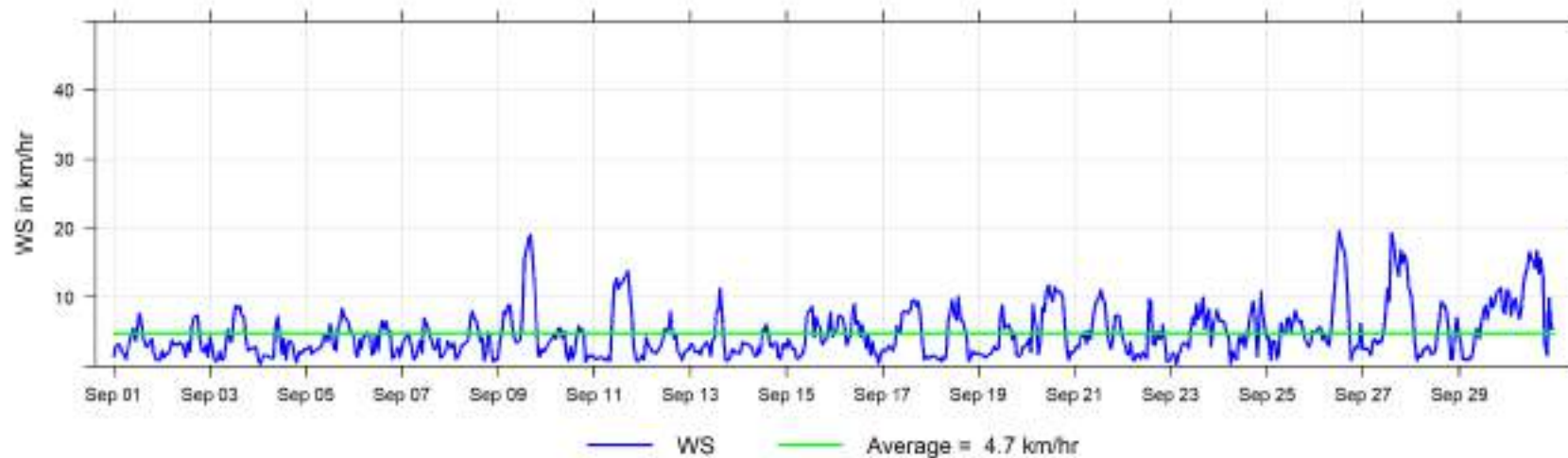
September 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



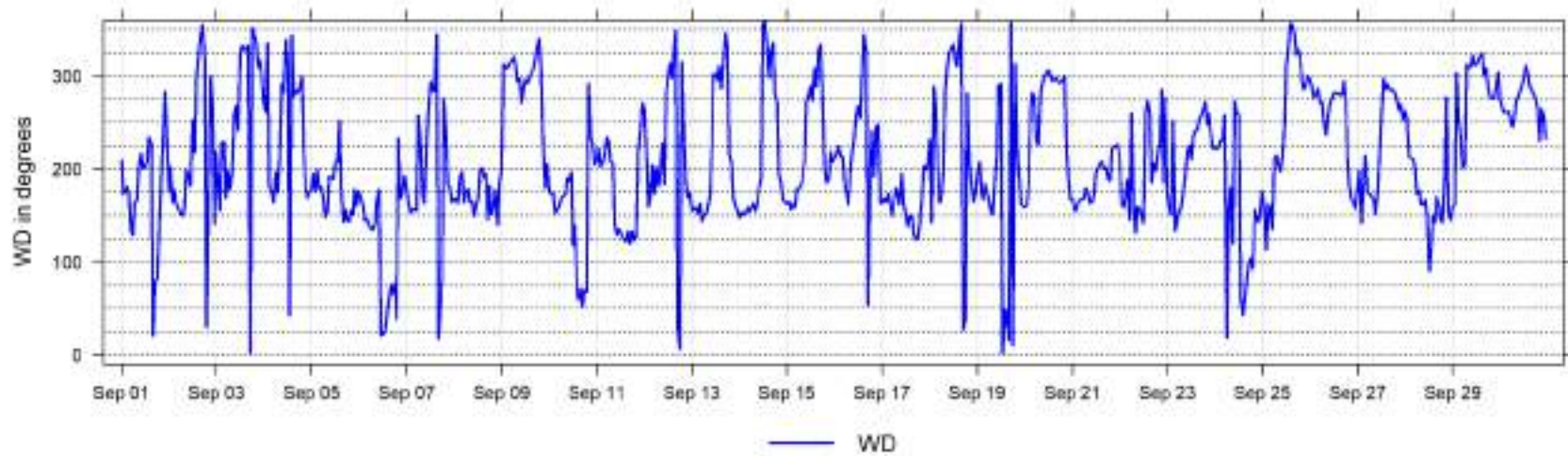
September 2024 Hourly Temperature Readings (in °C) at Fox Creek



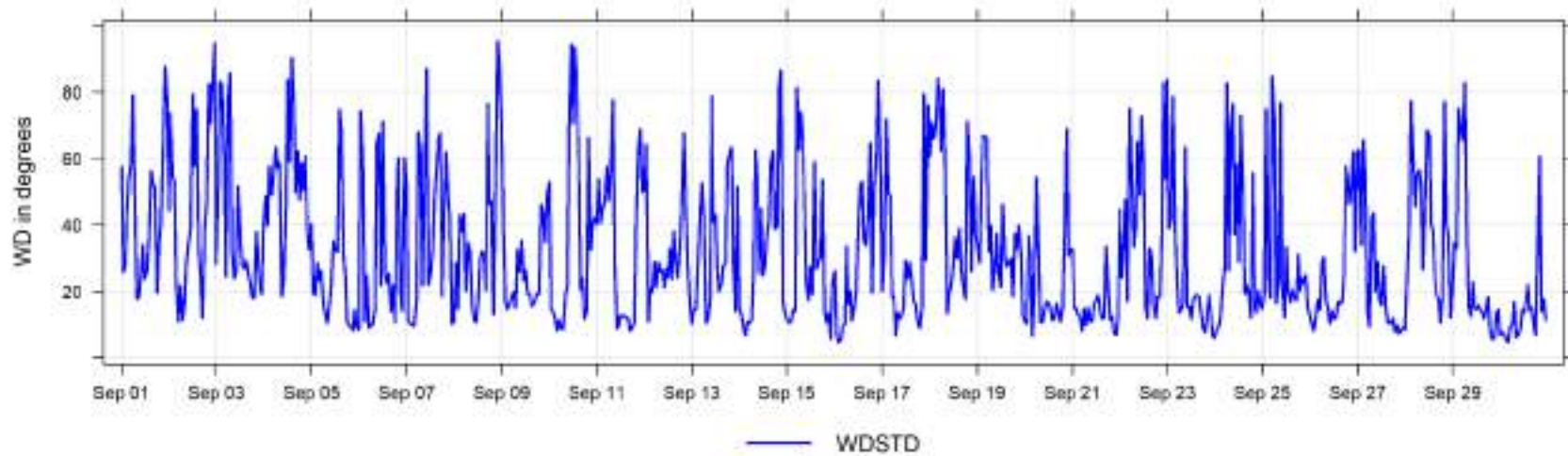
September 2024 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

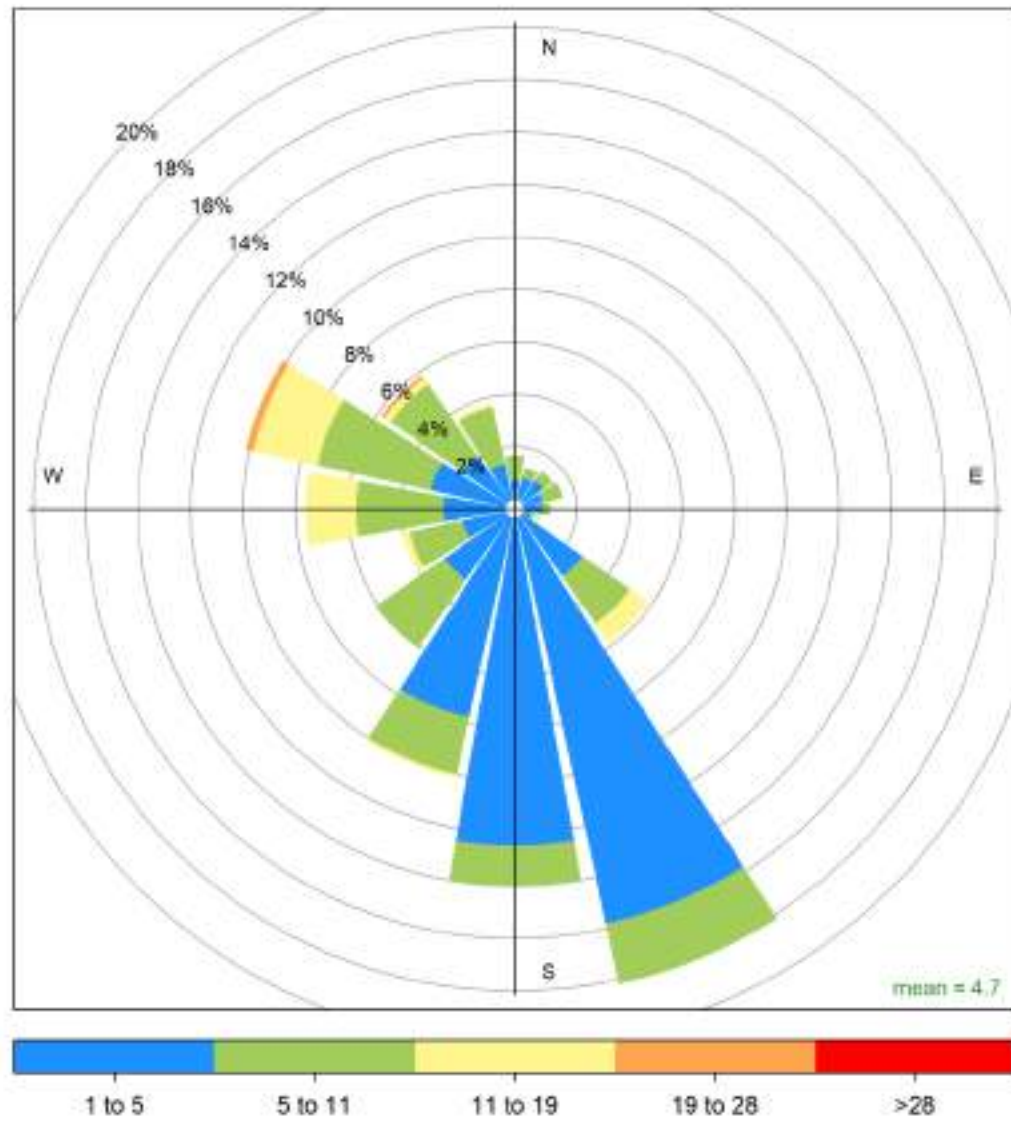


September 2024 Hourly Readings of Wind Direction (in degrees) at Fox Creek



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



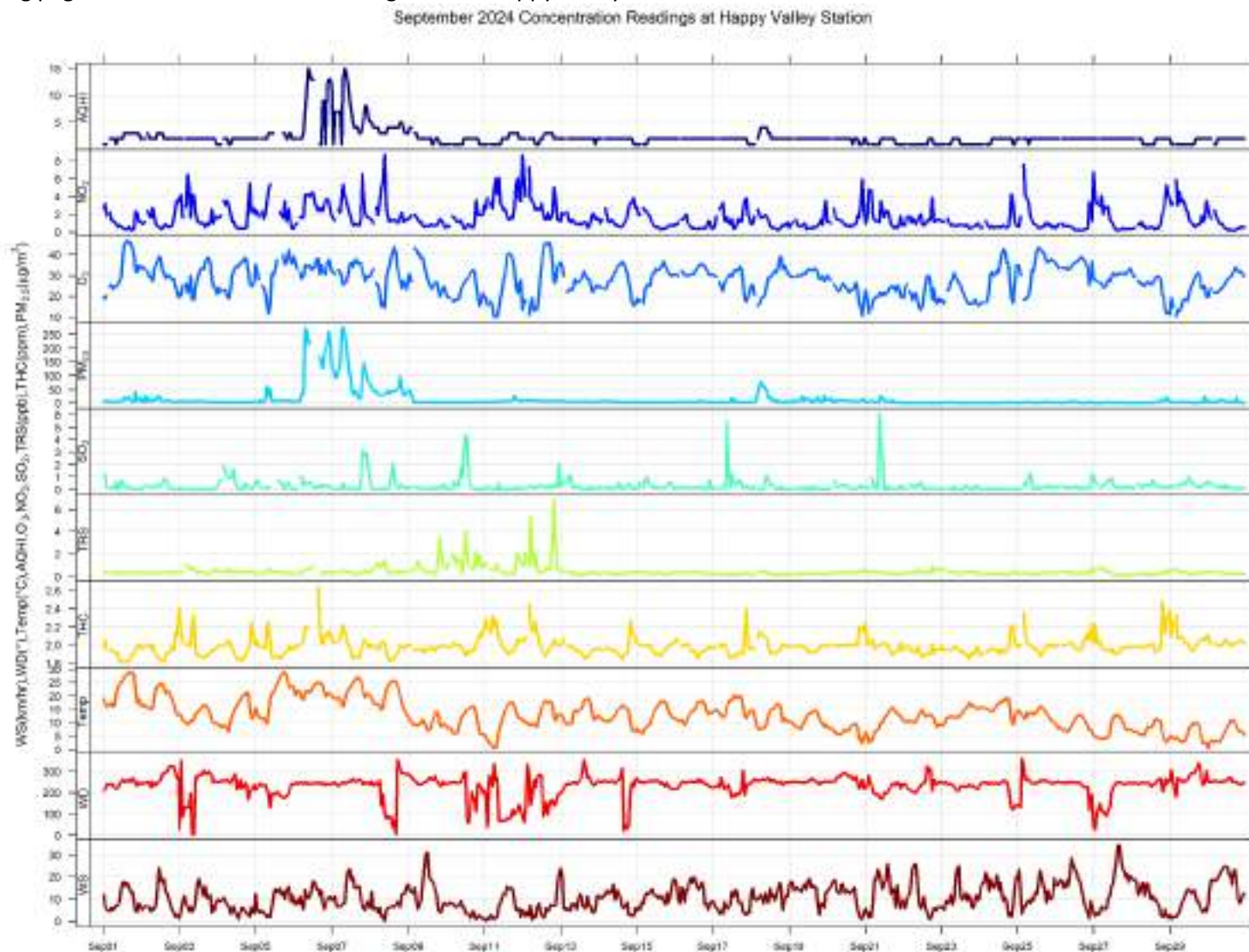


Fox Creek September 2024 Wind Rose, wind speed in km/hr

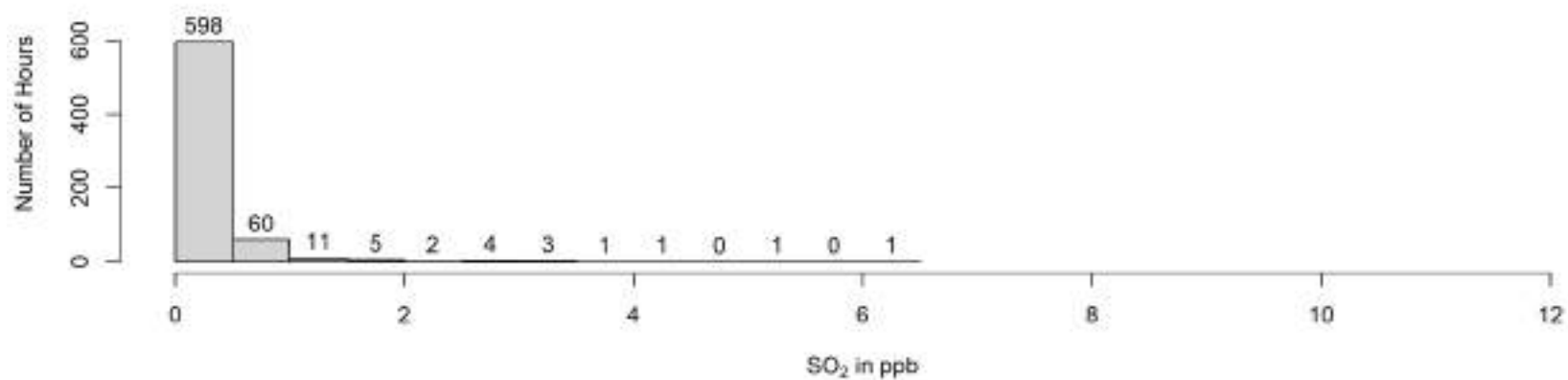
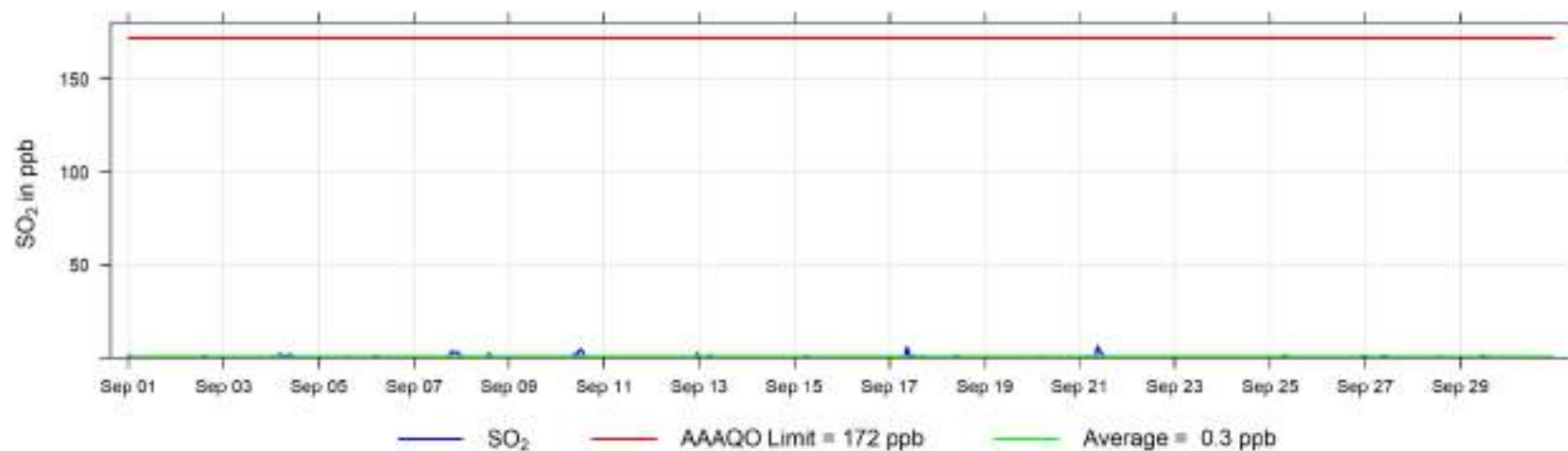
Calms (<1km/hr) = 6.8 %

8 Happy Valley (Portable) Charts

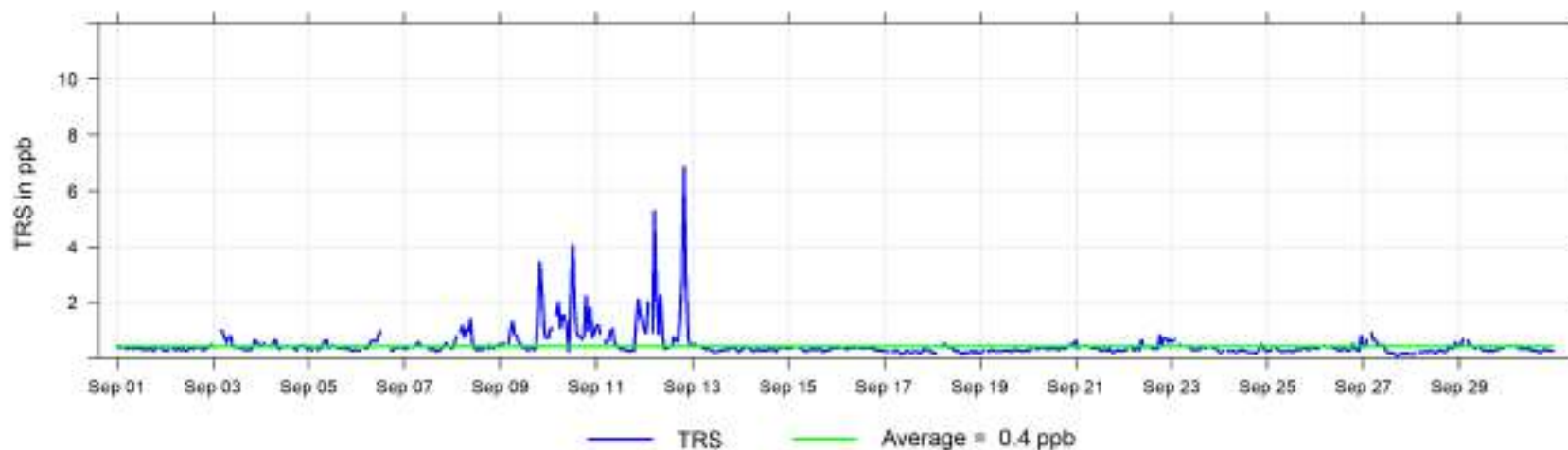
The following pages include the charts and histograms for Happy Valley Portable Station



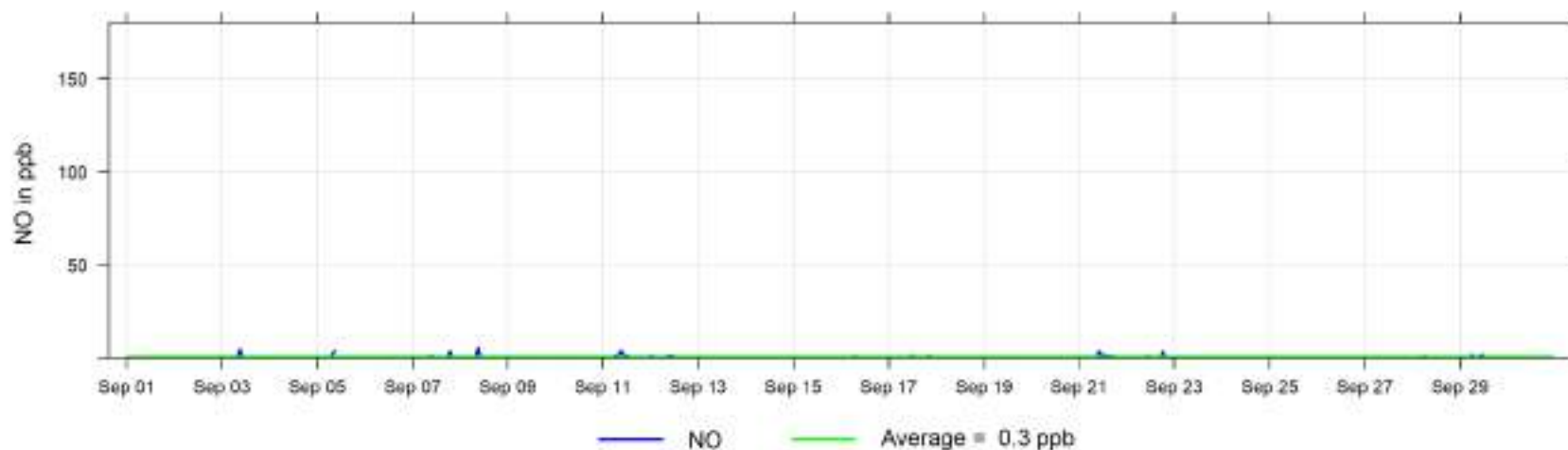
September 2024 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



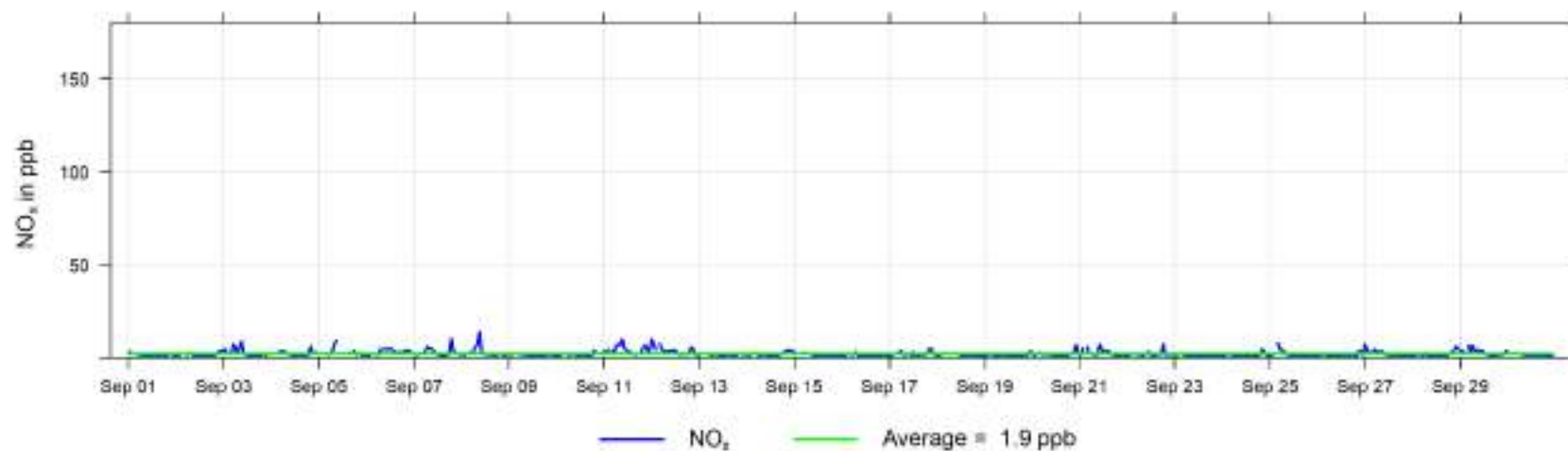
September 2024 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



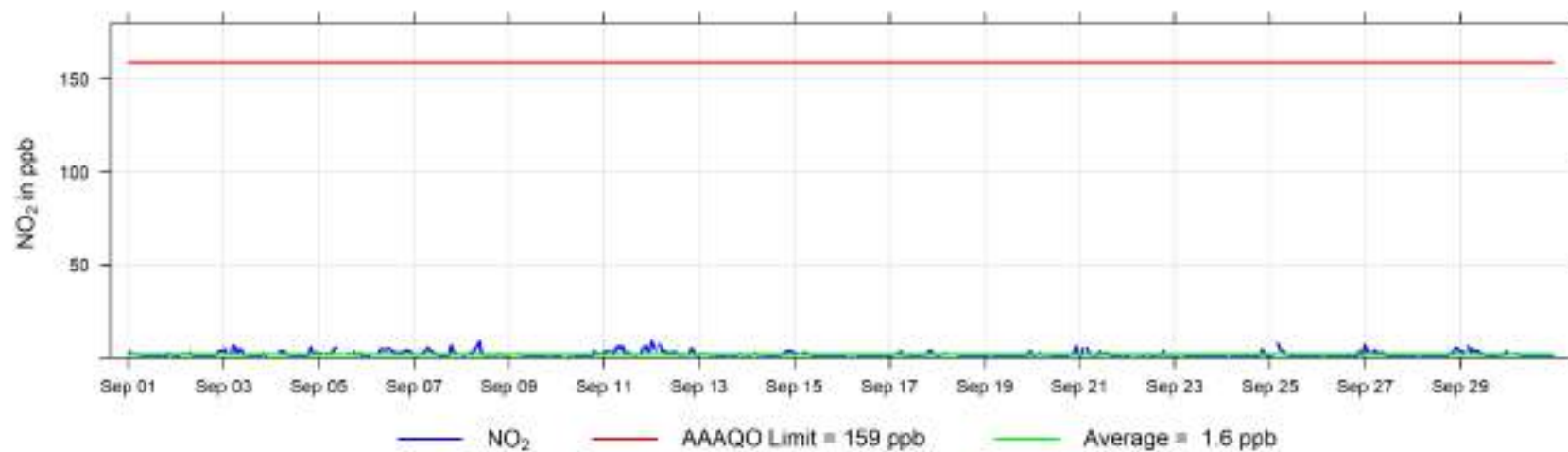
September 2024 Hourly Concentration Readings of NO (in ppb) at Happy Valley

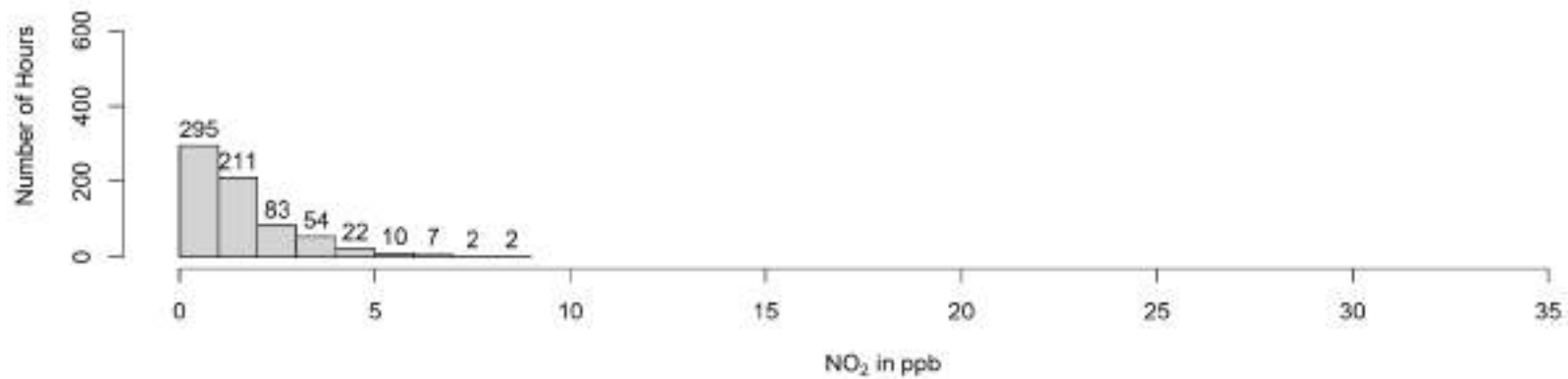


September 2024 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley

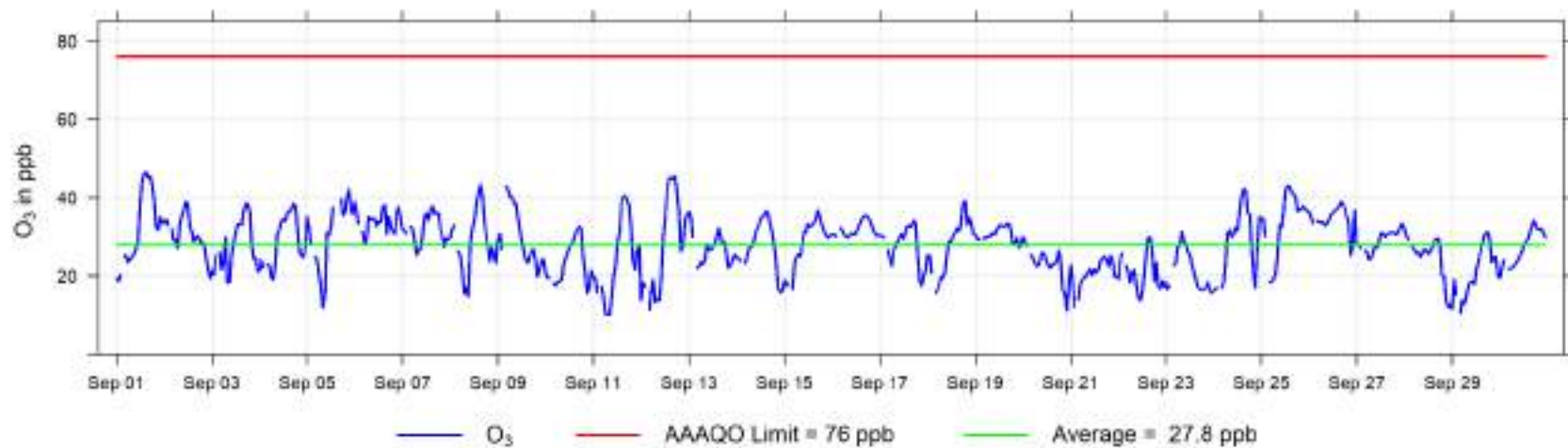


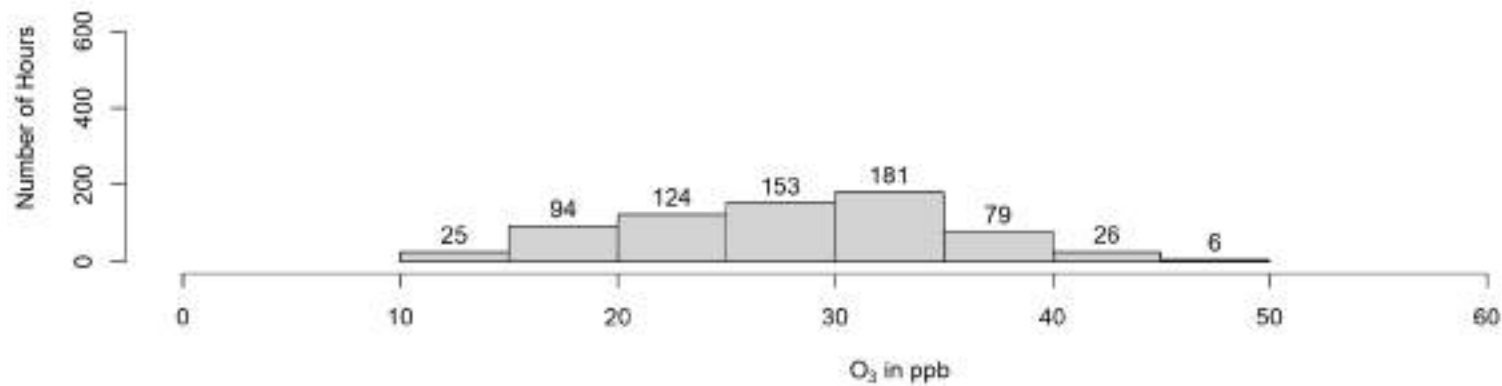
September 2024 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



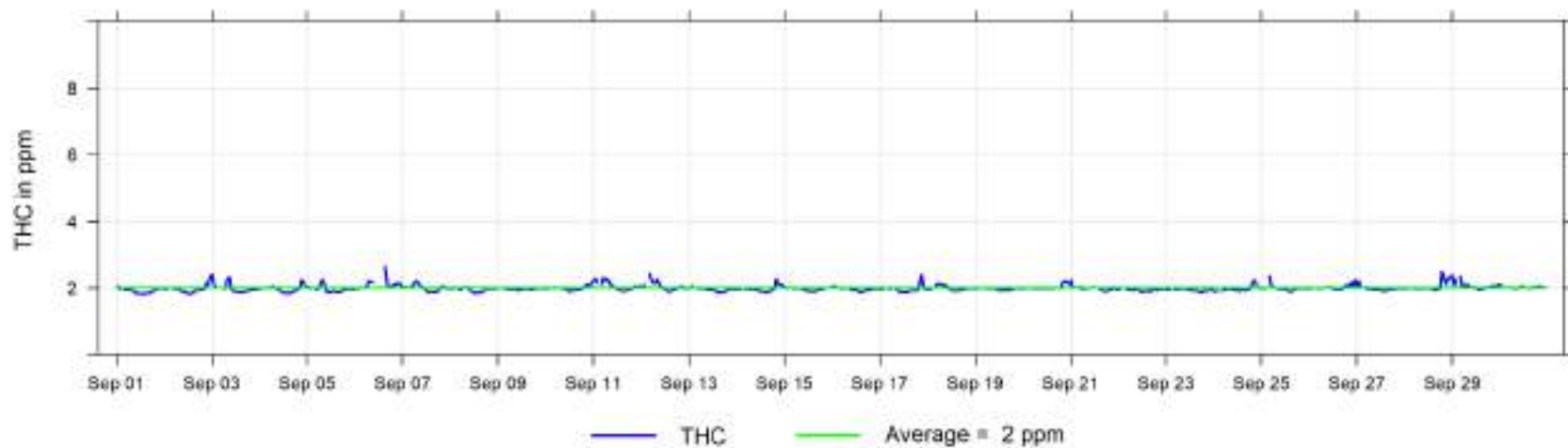


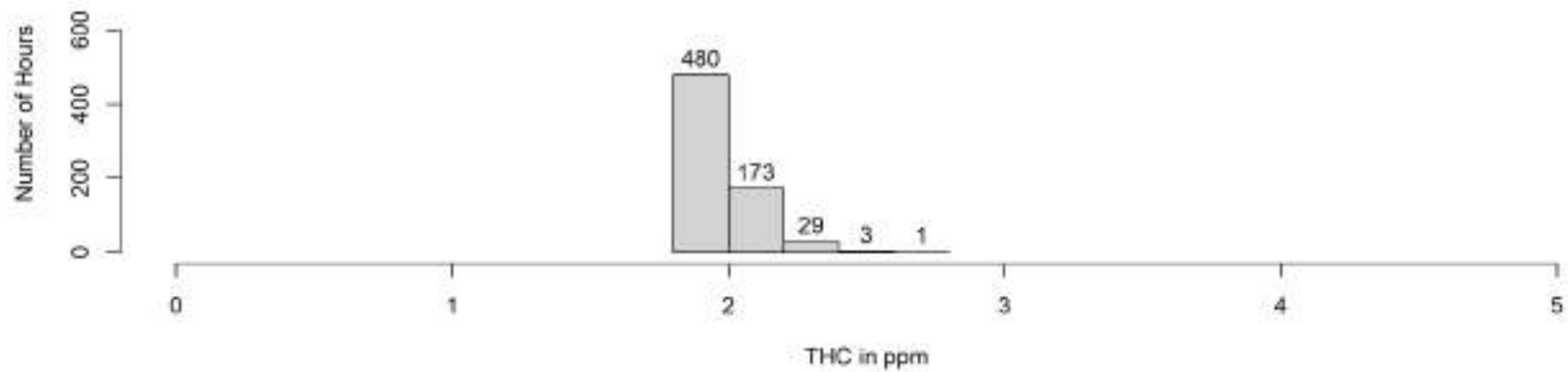
September 2024 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



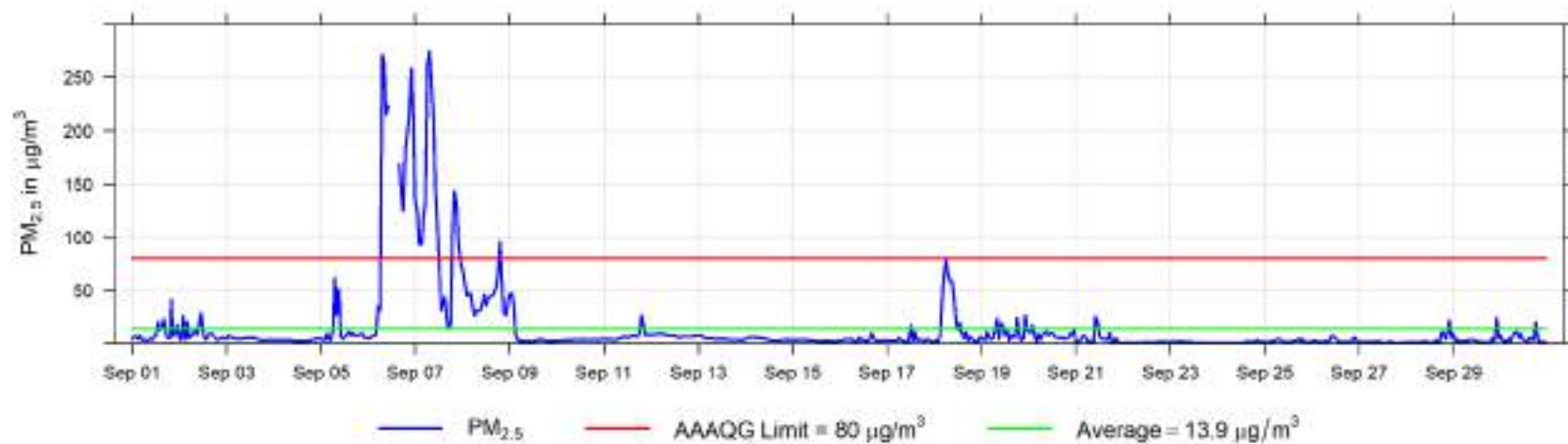


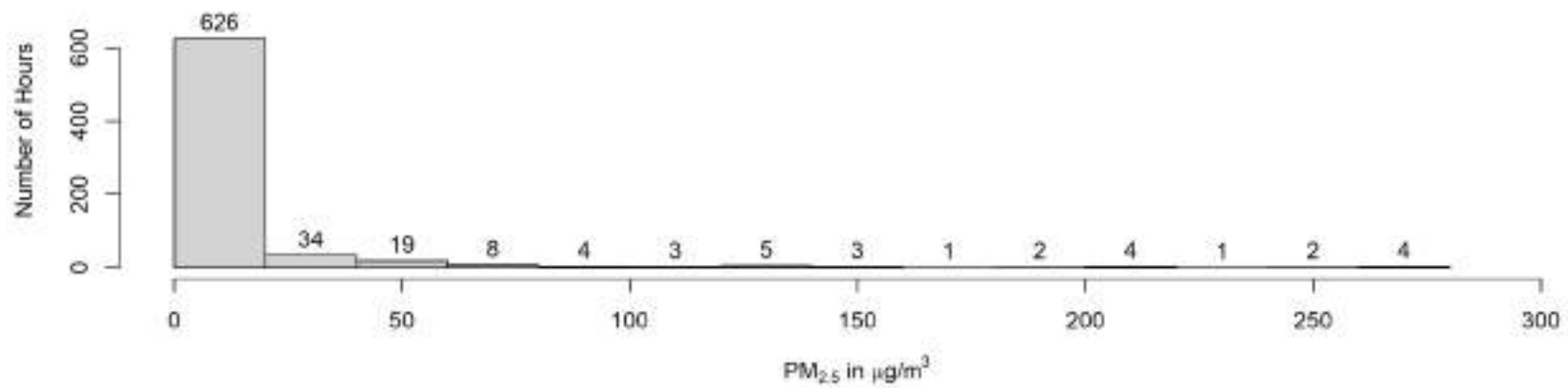
September 2024 Hourly Concentration Readings of THC (in ppm) at Happy Valley



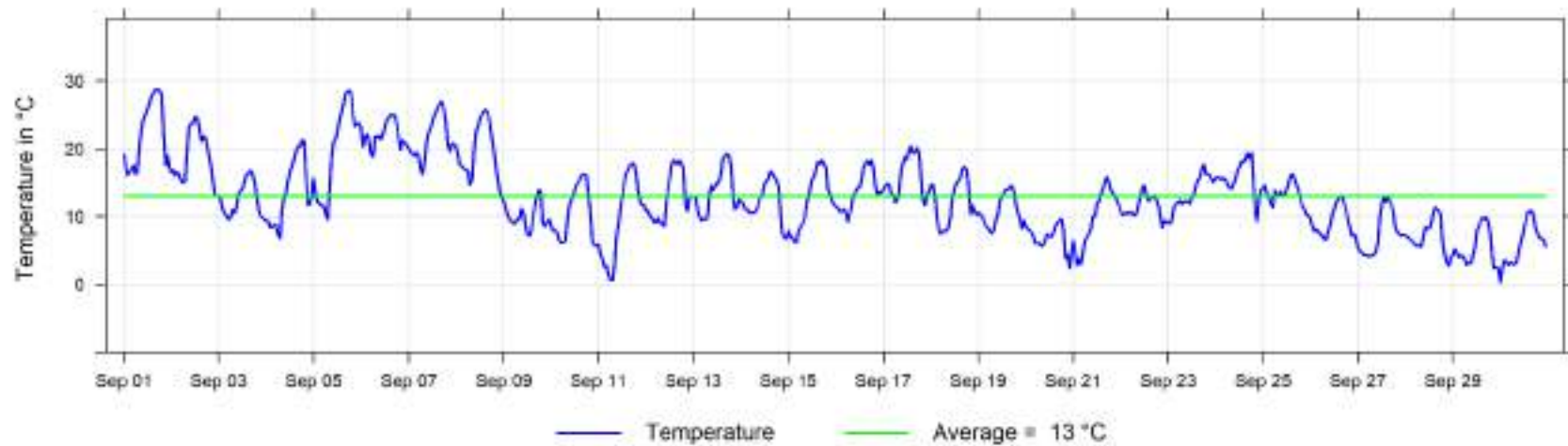


September 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley

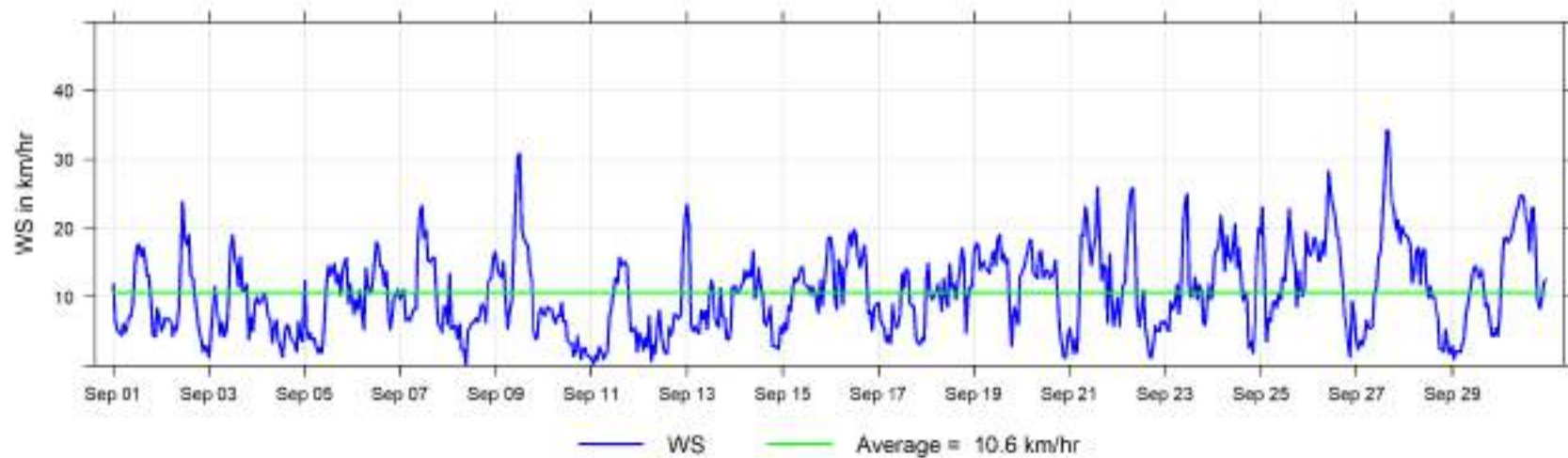




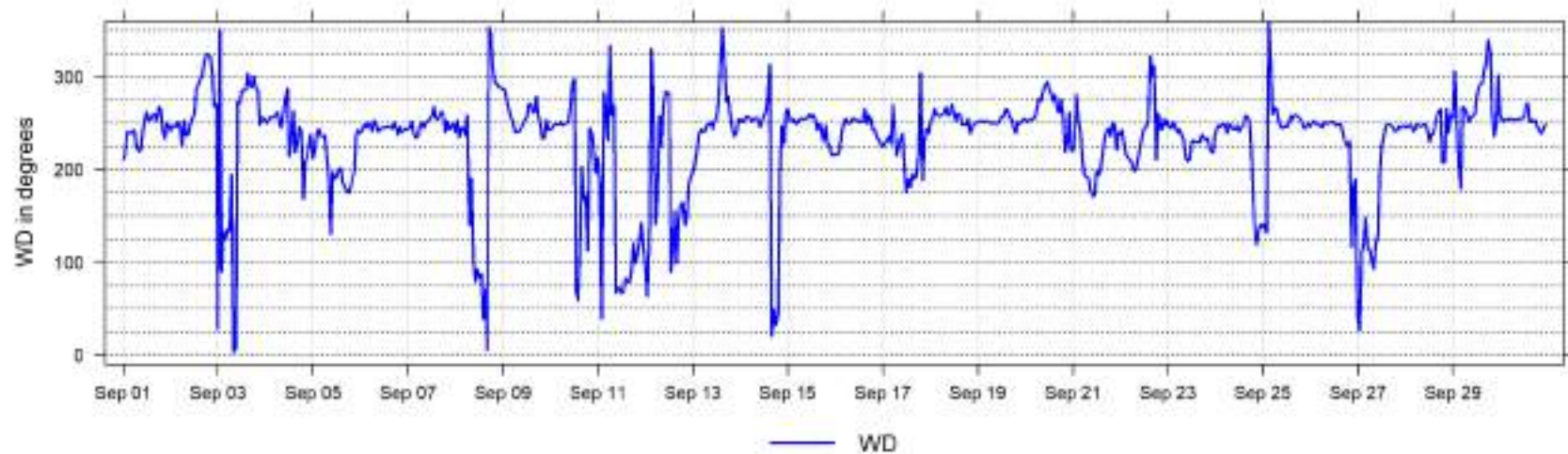
September 2024 Hourly Temperature Readings (in °C) at Happy Valley



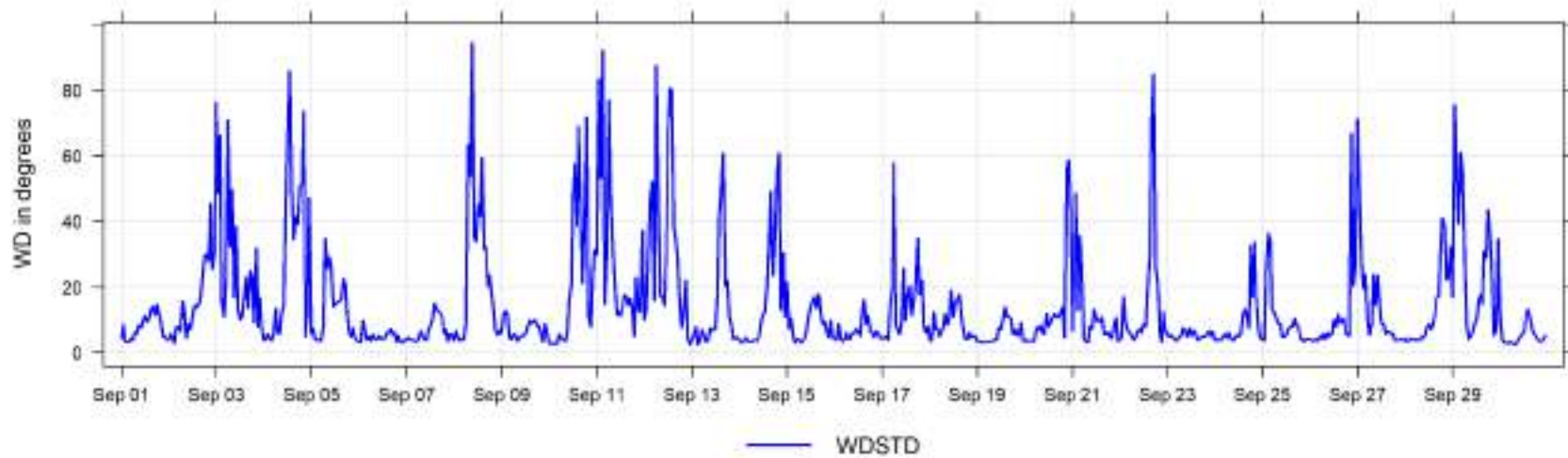
September 2024 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

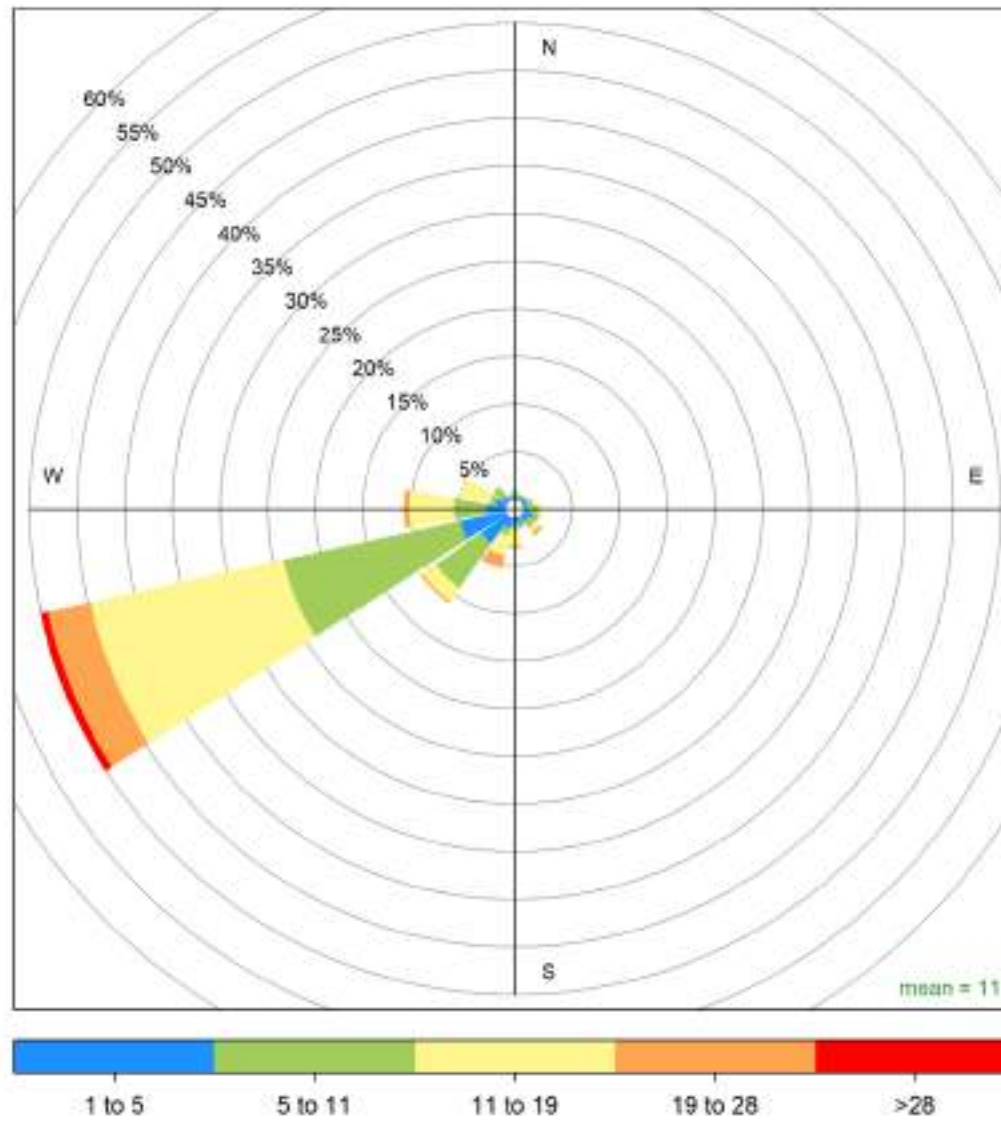


September 2024 Hourly Readings of Wind Direction (in degrees) at Happy Valley



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

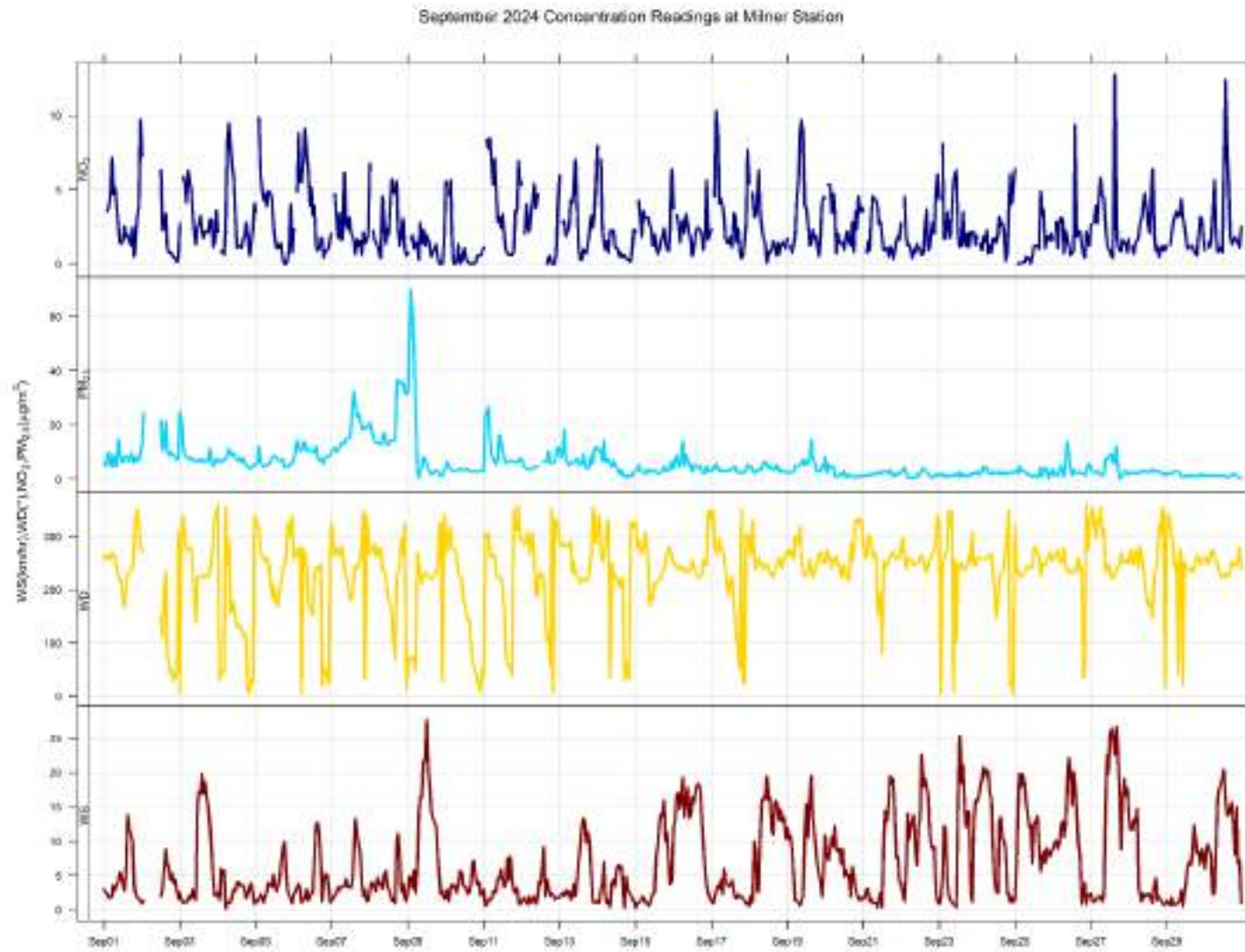




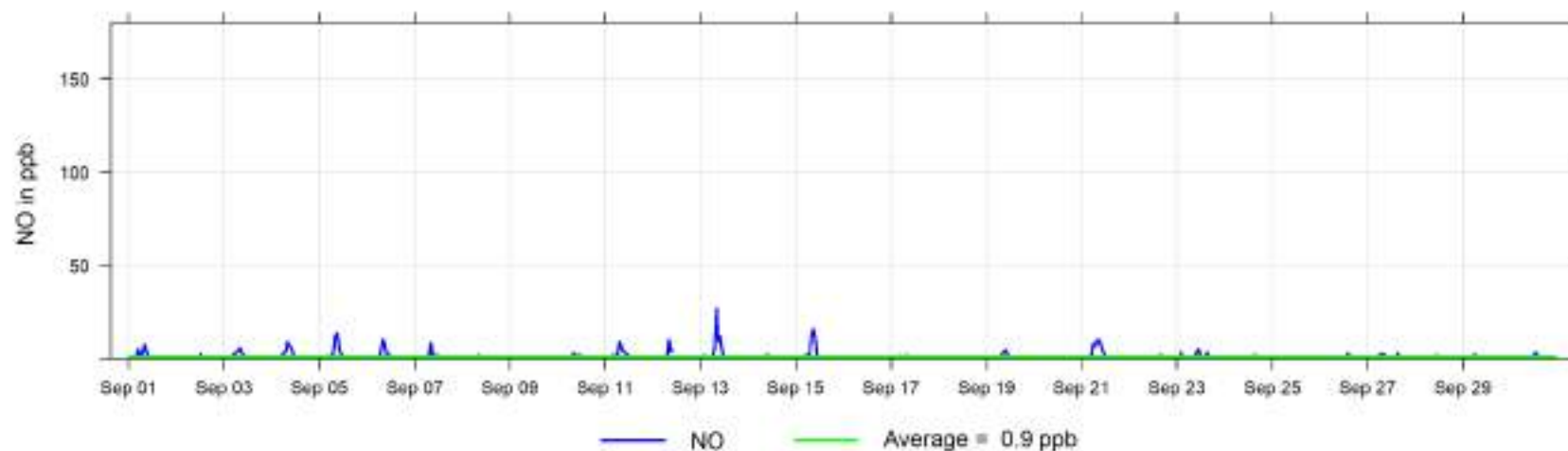
Happy Valley September 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 1.1 %

9 Milner Charts

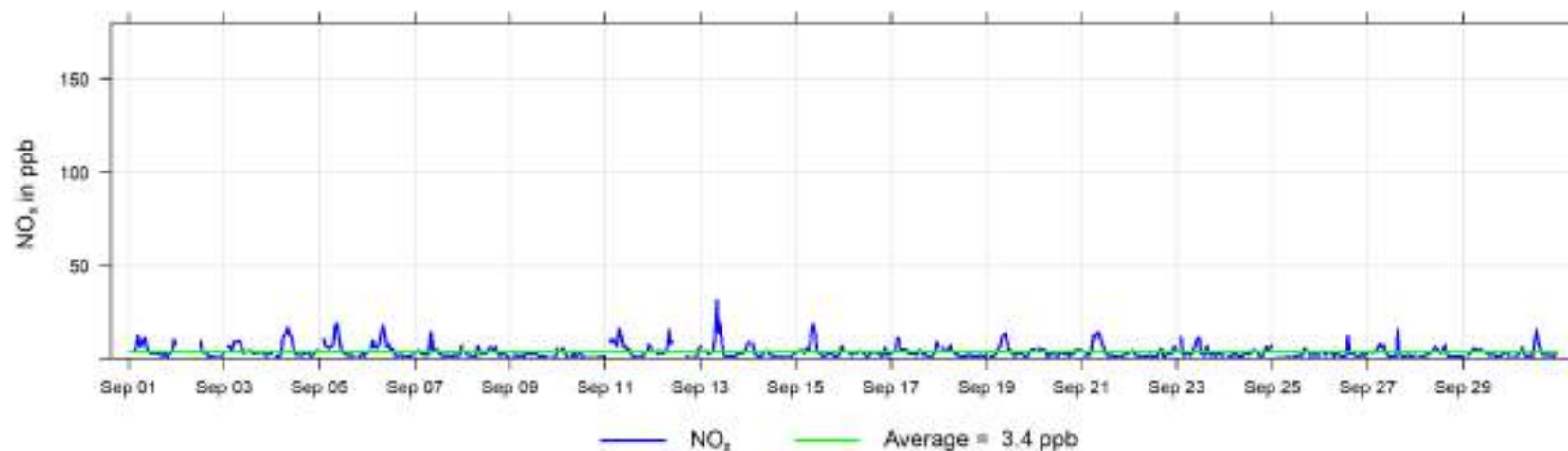
The following pages include the charts and histograms for Milner Station



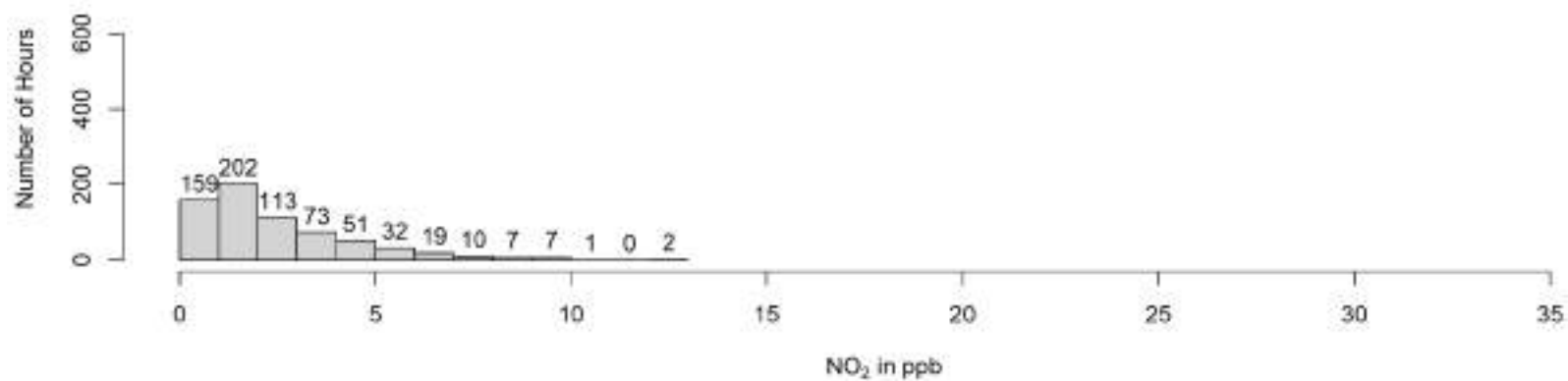
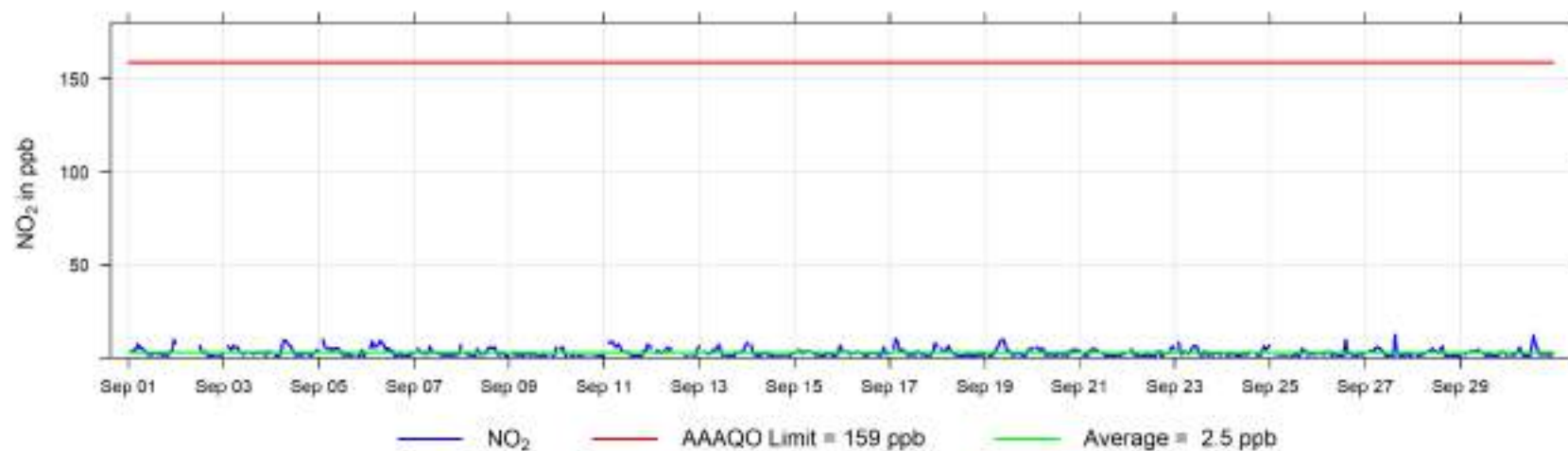
September 2024 Hourly Concentration Readings of NO (in ppb) at Milner



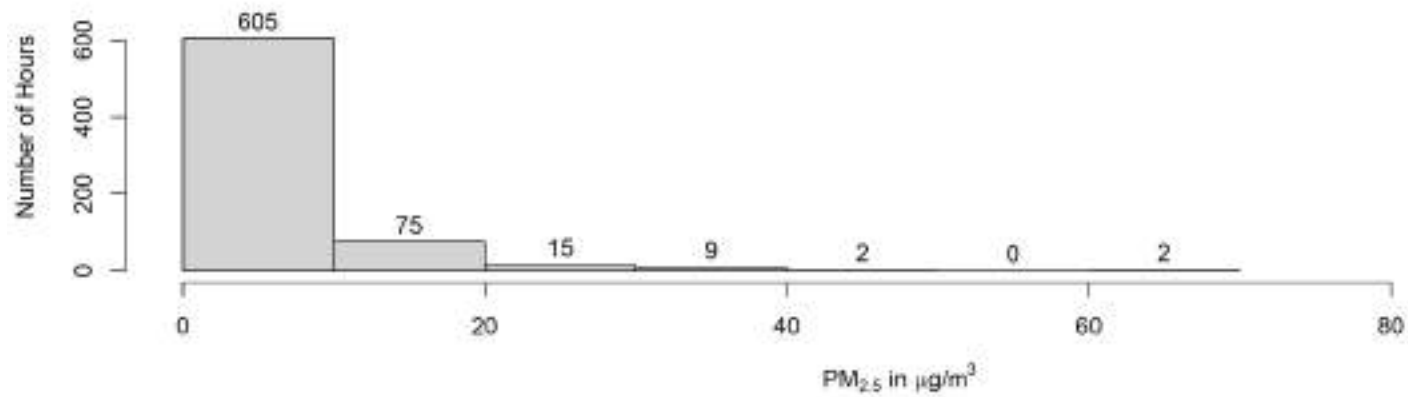
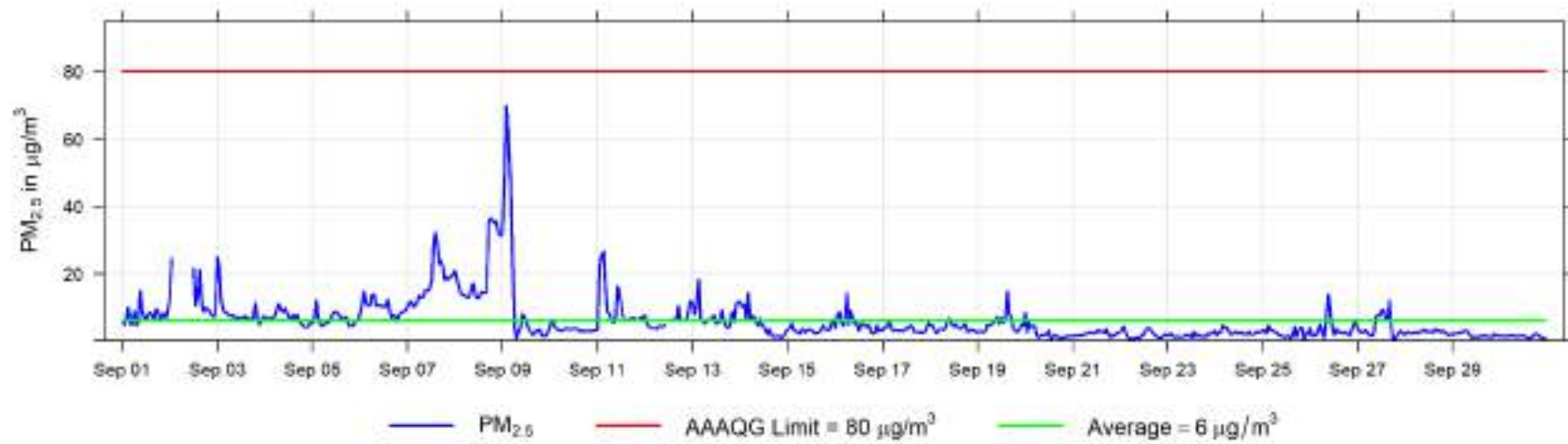
September 2024 Hourly Concentration Readings of NO_x (in ppb) at Milner



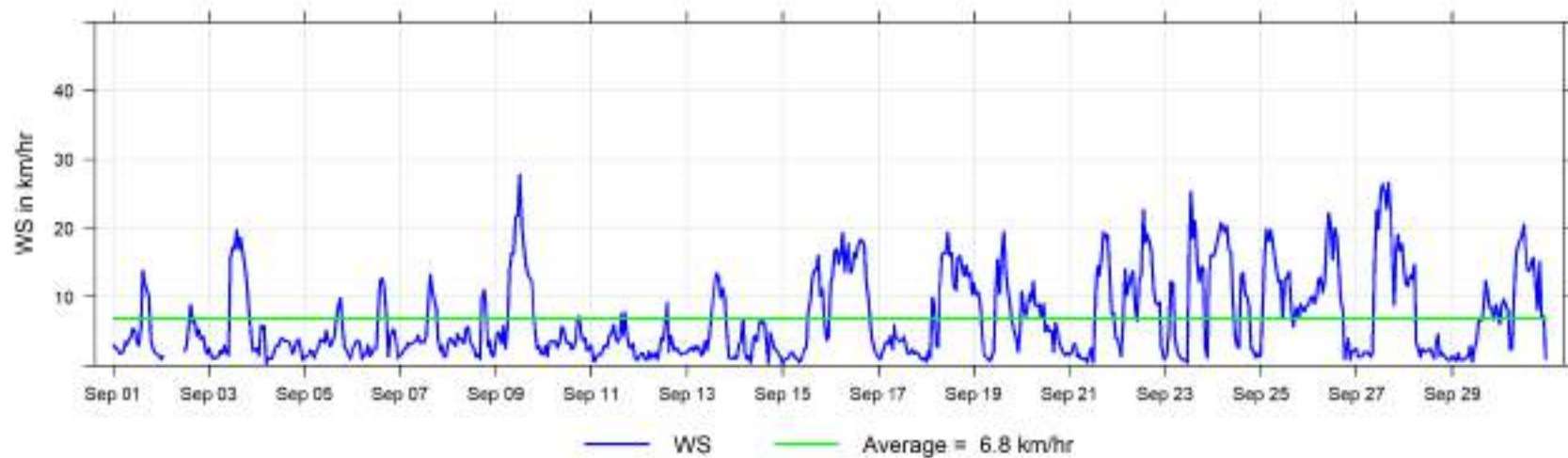
September 2024 Hourly Concentration Readings of NO₂ (in ppb) at Milner



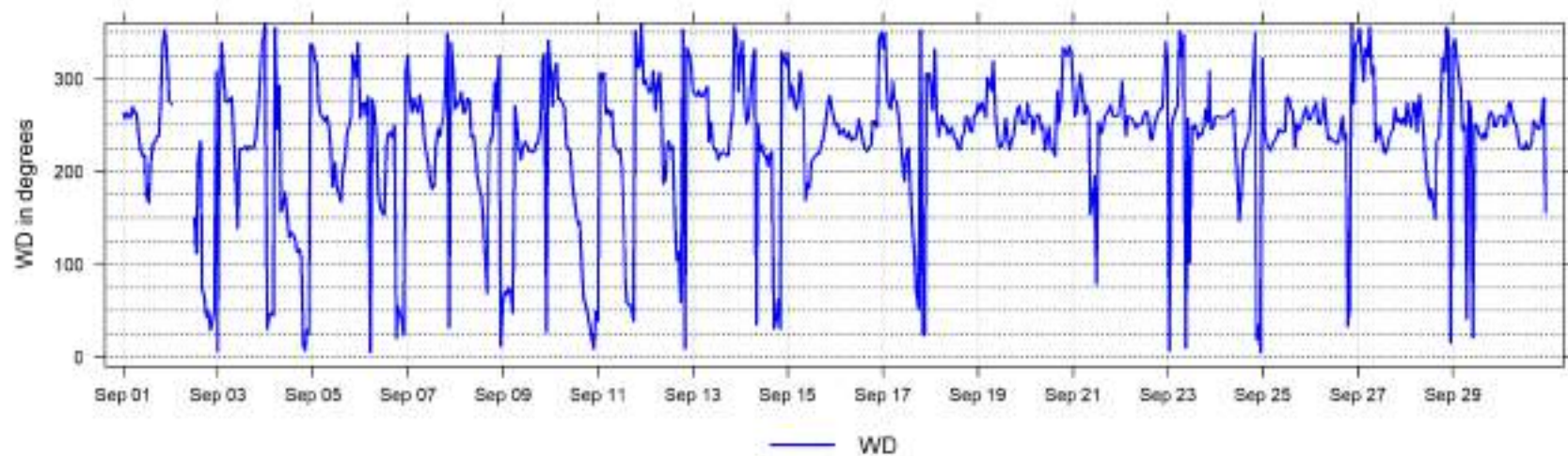
September 2024 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Milner



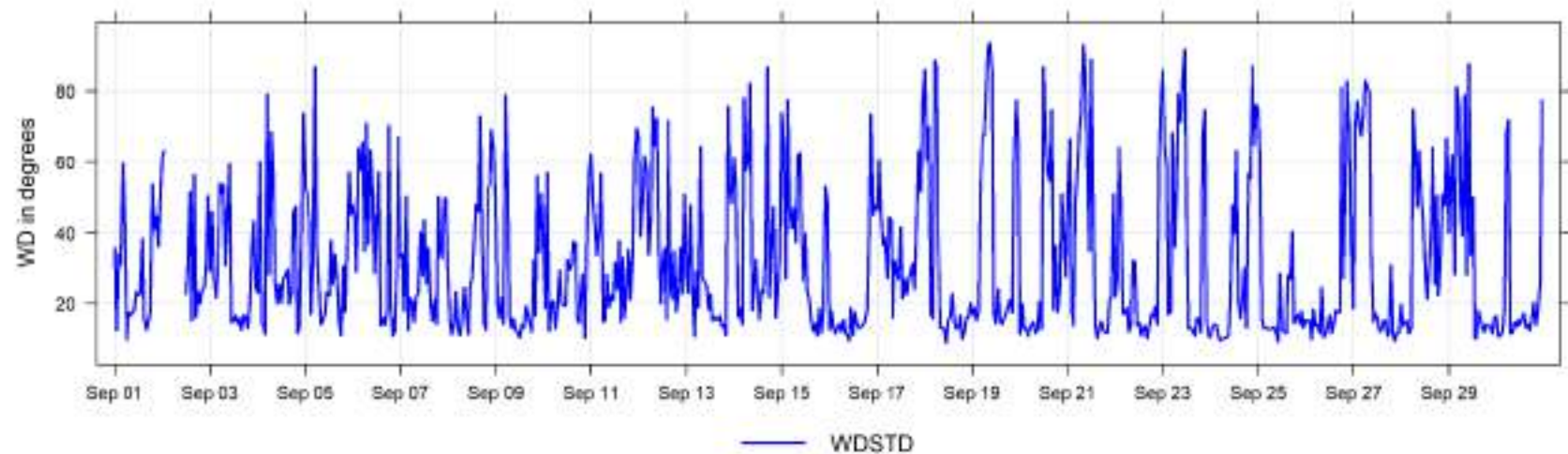
September 2024 Hourly Readings of Wind Speed (in km/hr) at Milner

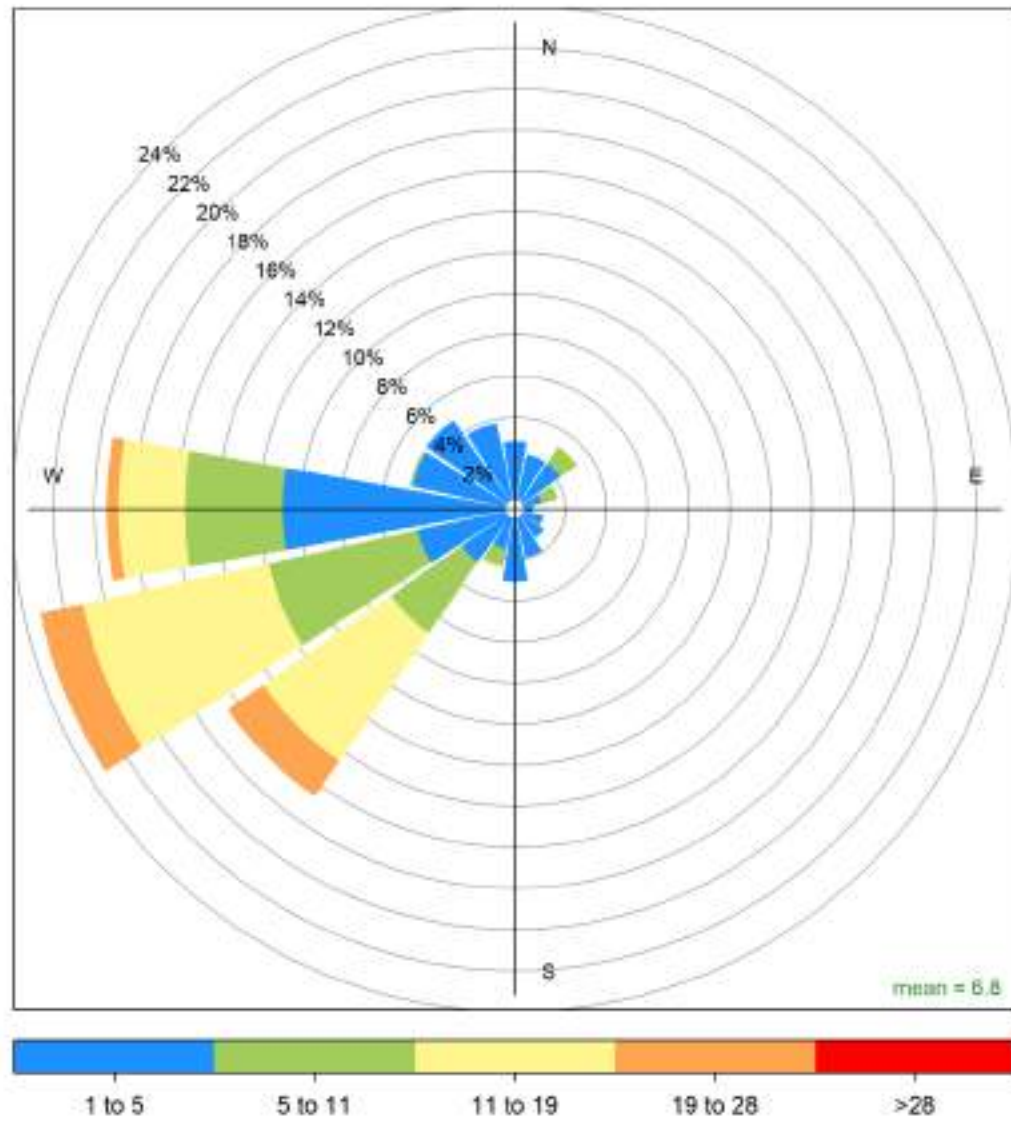


September 2024 Hourly Readings of Wind Direction (in degrees) at Milner



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

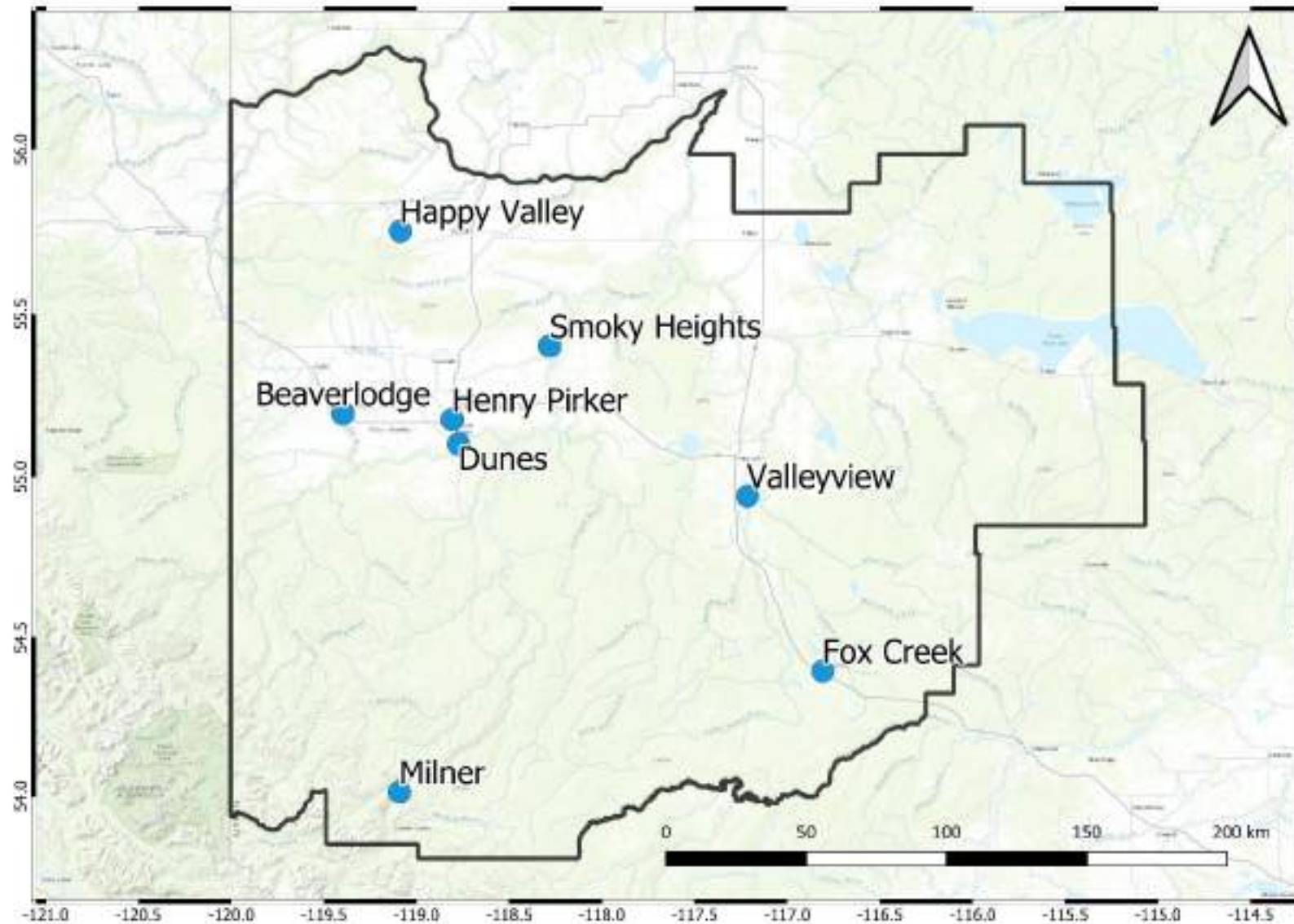




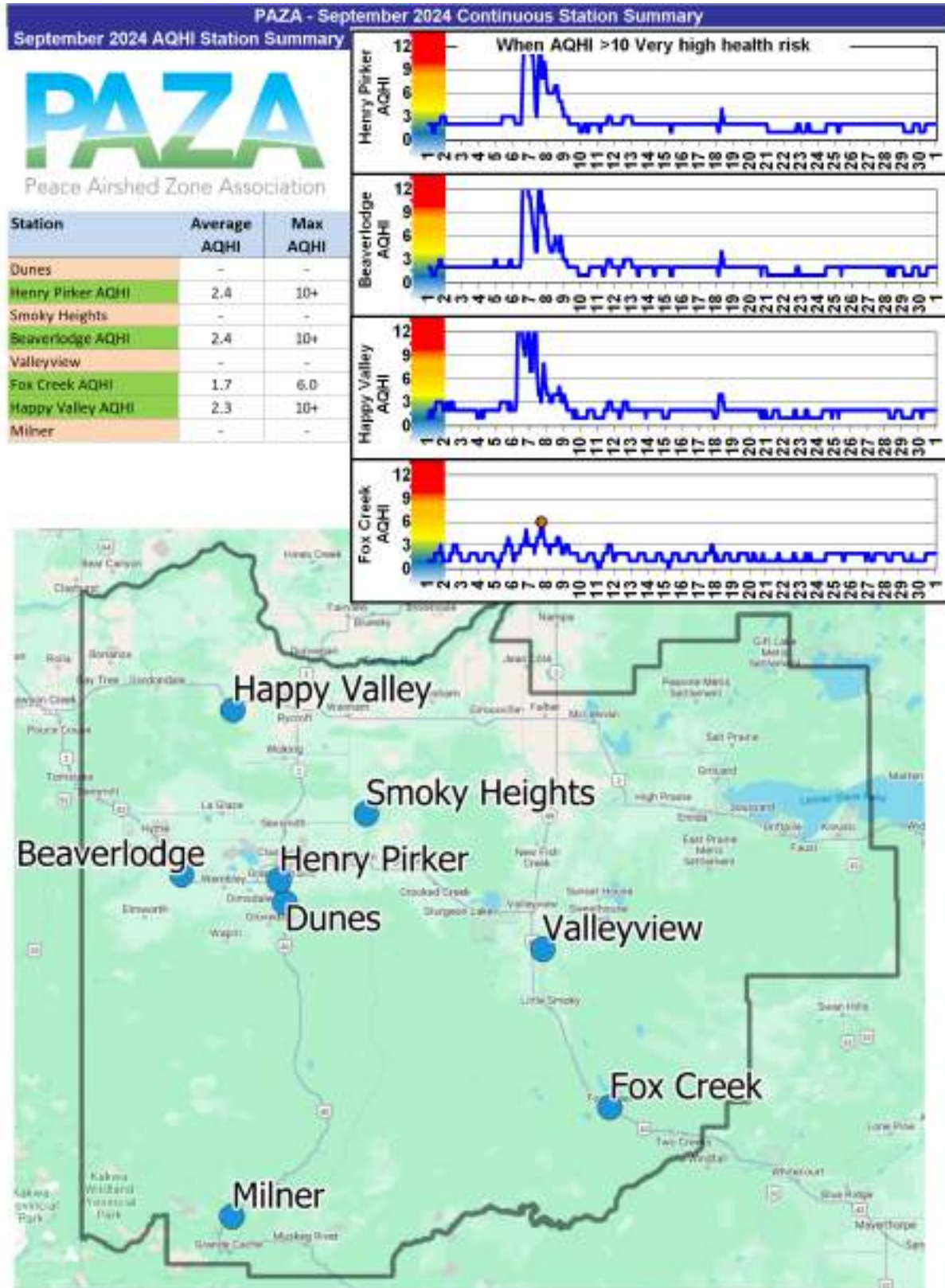
Milner September 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 7.2 %

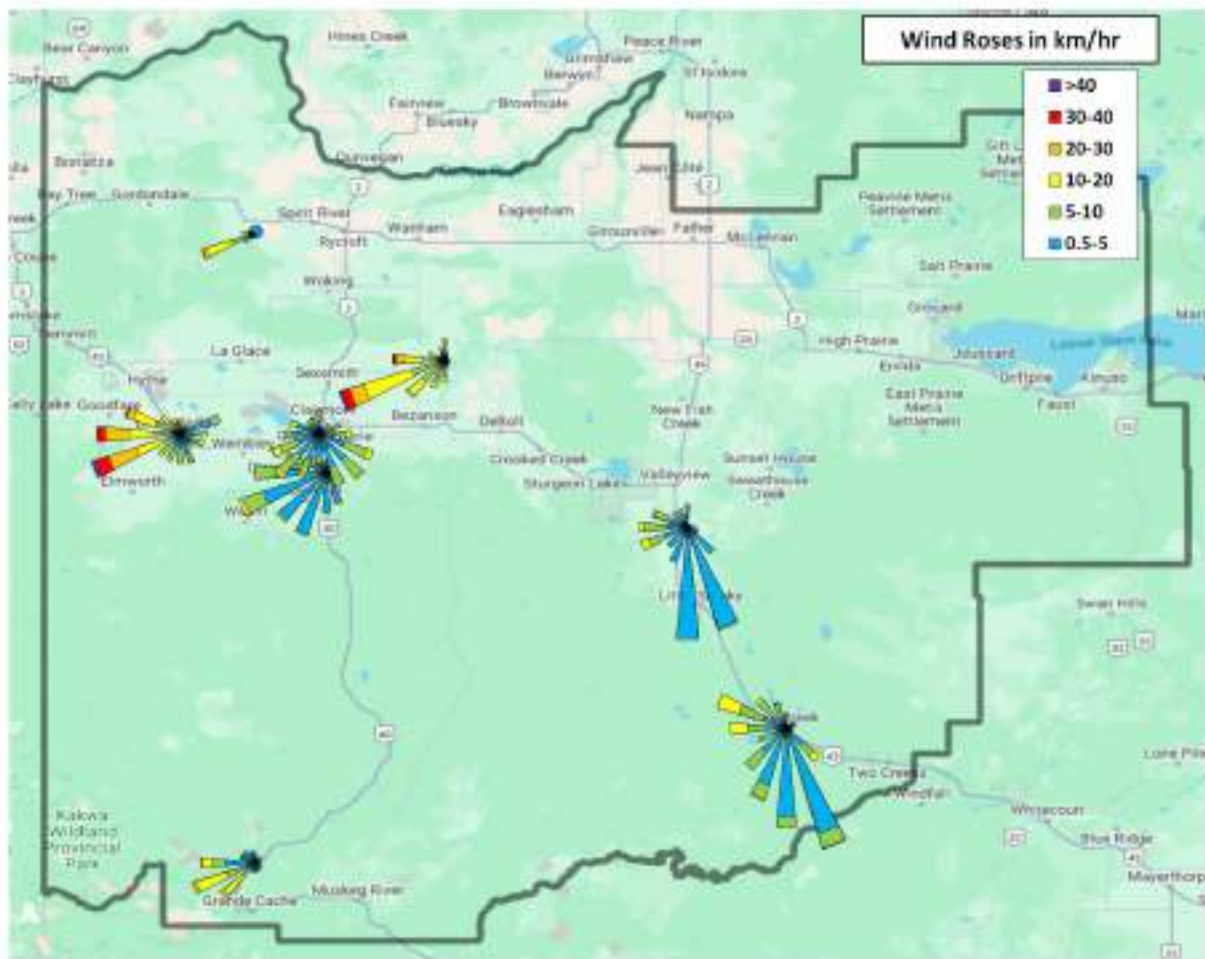
10 Concentration Summaries and Roses for PAZA



10.1 Air Quality Health Index (AQHI) Plots

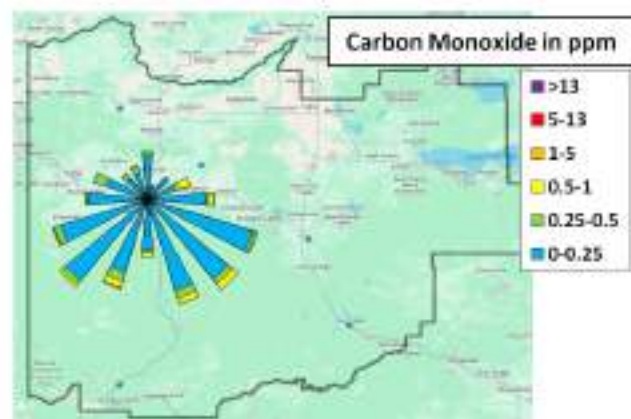
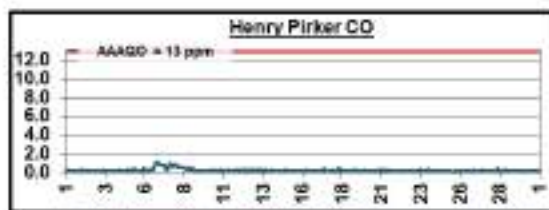


10.2 Wind Roses

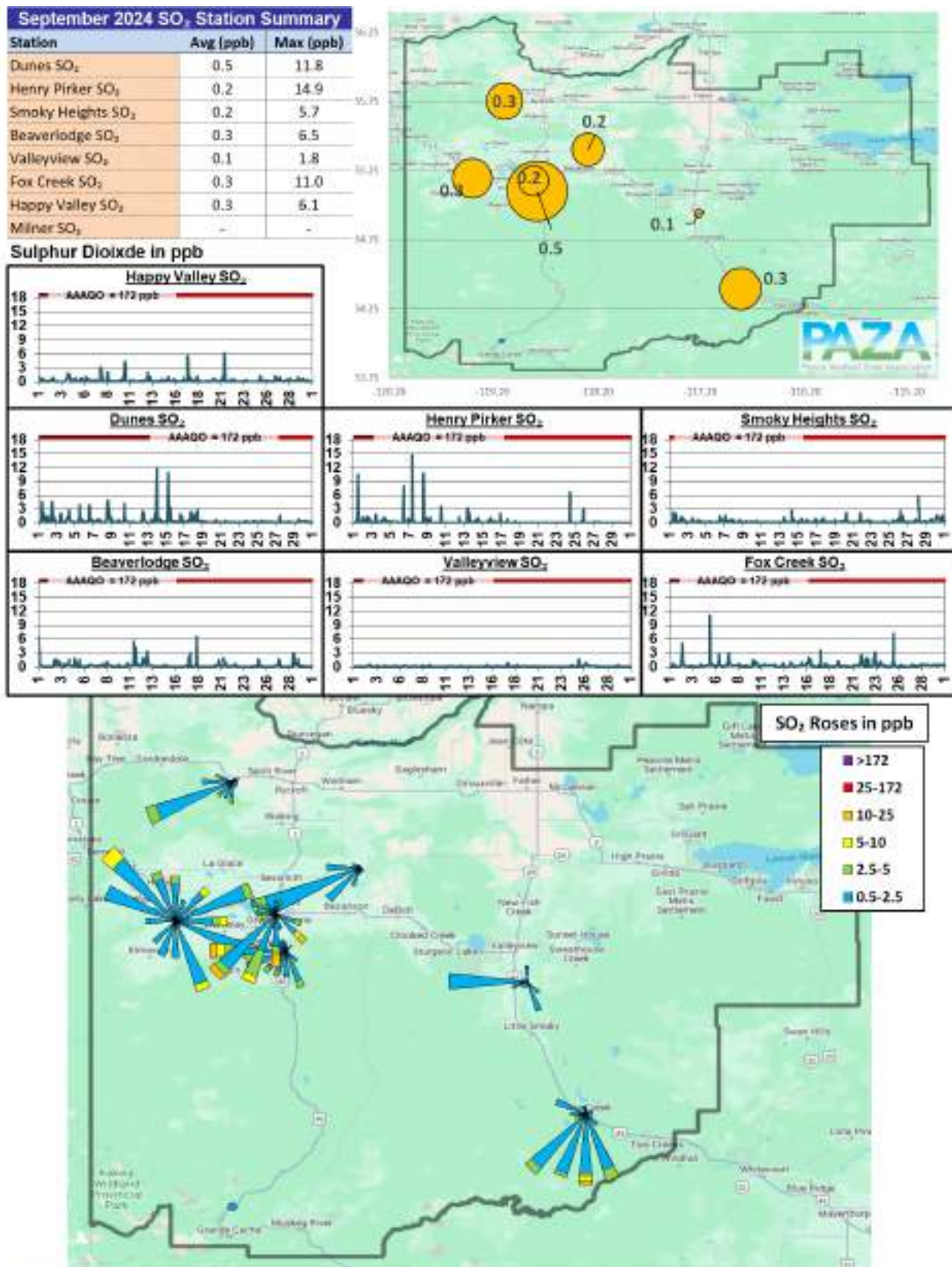


10.3 Carbon Monoxide (CO) Plots

September 2024 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Pirkler CO	0.20	1.13



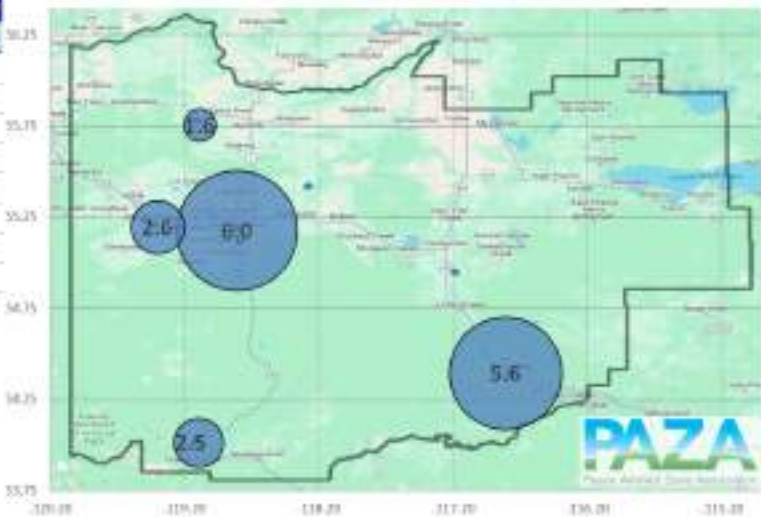
10.4 Sulphur Dioxide (SO₂) Plots



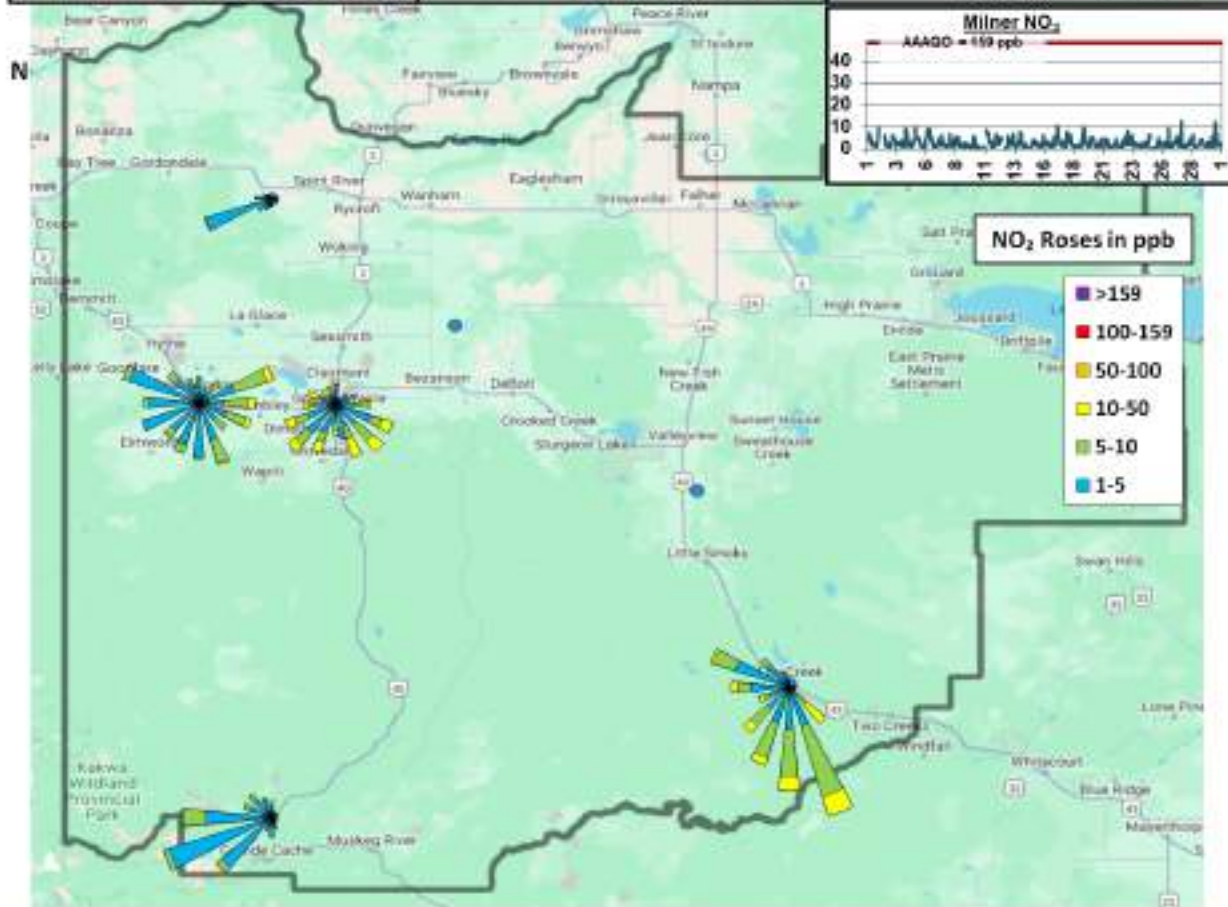
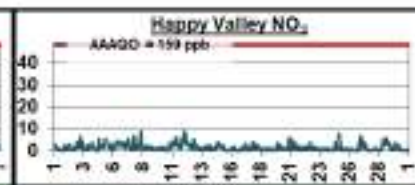
10.5 Nitrogen Dioxide (NO₂) Plots

September 2024 NO₂ Station Summary

Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	6.0	30.3
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	2.6	15.6
Valleyview NO ₂	-	-
Fox Creek NO ₂	5.6	28.6
Happy Valley NO ₂	1.6	8.7
Milner NO ₂	2.5	12.7

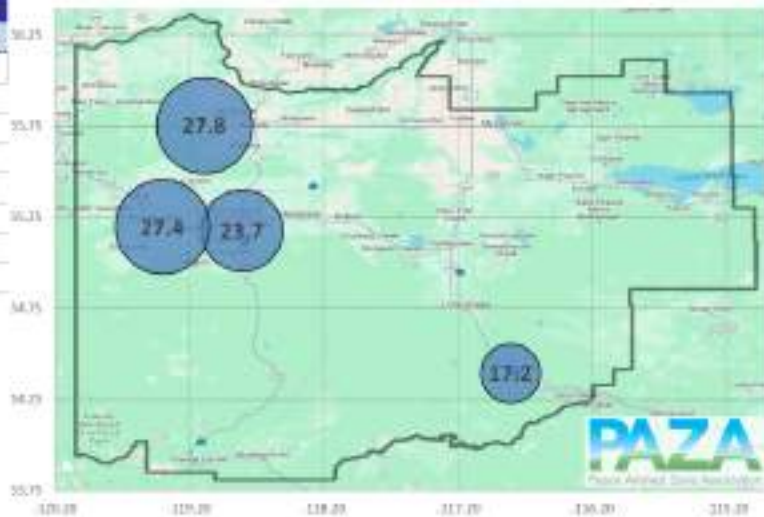


Nitrogen Dioxide in ppb

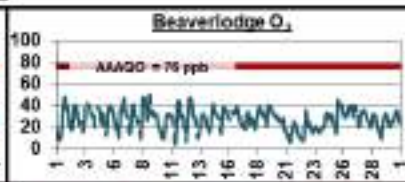
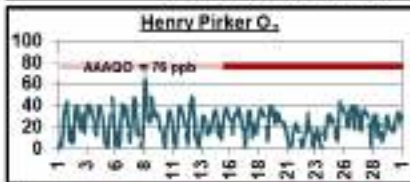
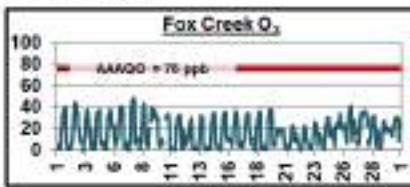


10.6 Ozone (O₃) Plots

September 2024 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	23.7	74.2
Smoky Heights O ₃	-	-
Beaverlodge O ₃	27.4	49.6
Valleyview O ₃	-	-
Fox Creek O ₃	17.2	49.0
Happy Valley O ₃	27.8	46.5
Milner O ₃	-	-



Ozone in ppb

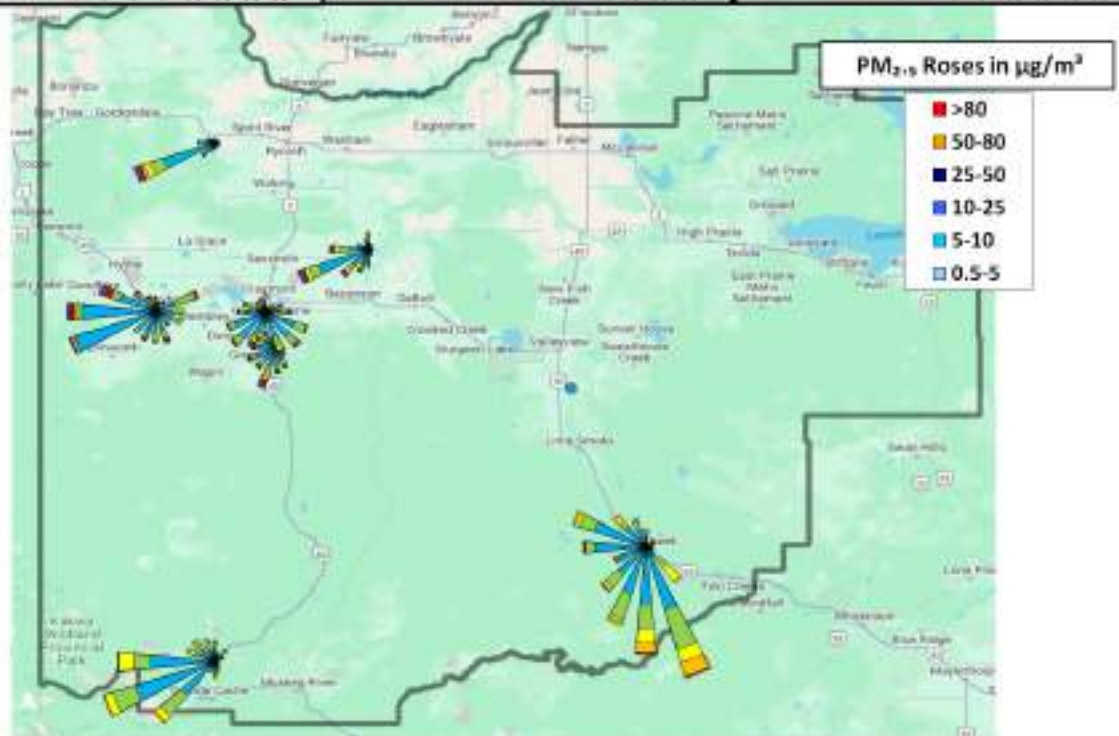
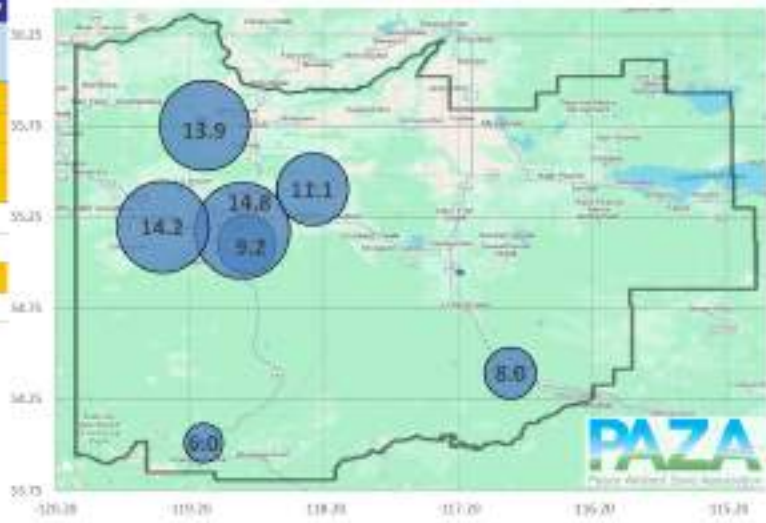
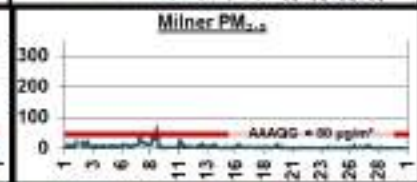
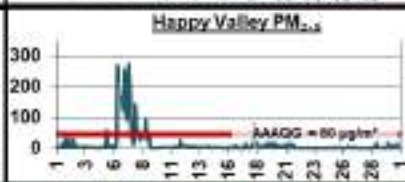
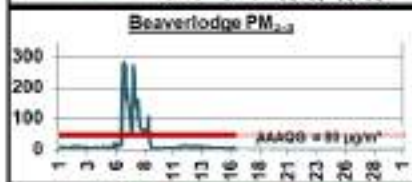
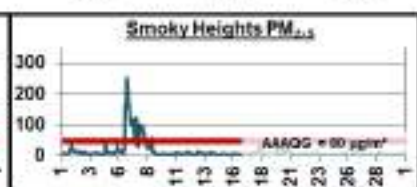
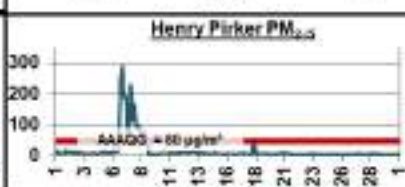
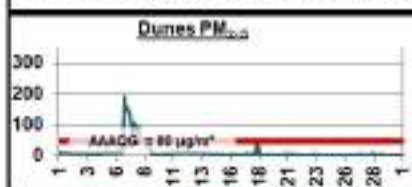
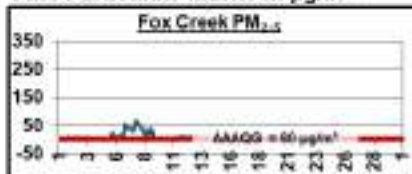


10.7 Fine Particulate Matter (PM_{2.5}) Plots

September 2024 PM_{2.5} Station Summary

Station	Avg µg/m ³	Max µg/m ³
Dunes PM _{2.5}	9.2	191.3
Henry Pirkler PM _{2.5}	14.8	288.1
Smoky Heights PM _{2.5}	11.1	251.8
Beaverlodge PM _{2.5}	14.2	282.2
Valleyview PM _{2.5}	-	-
Fox Creek PM _{2.5}	8.0	70.7
Happy Valley PM _{2.5}	13.9	275.0
Milner PM _{2.5}	6.0	69.8

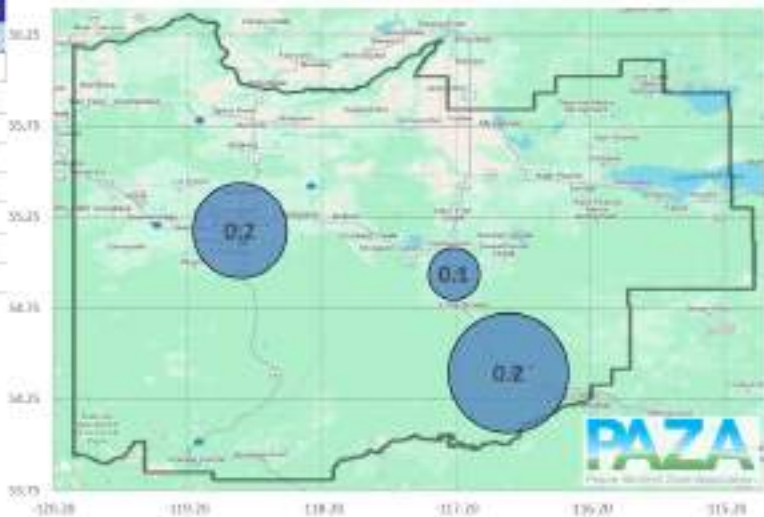
Fine Particulate Matter in µg/m³



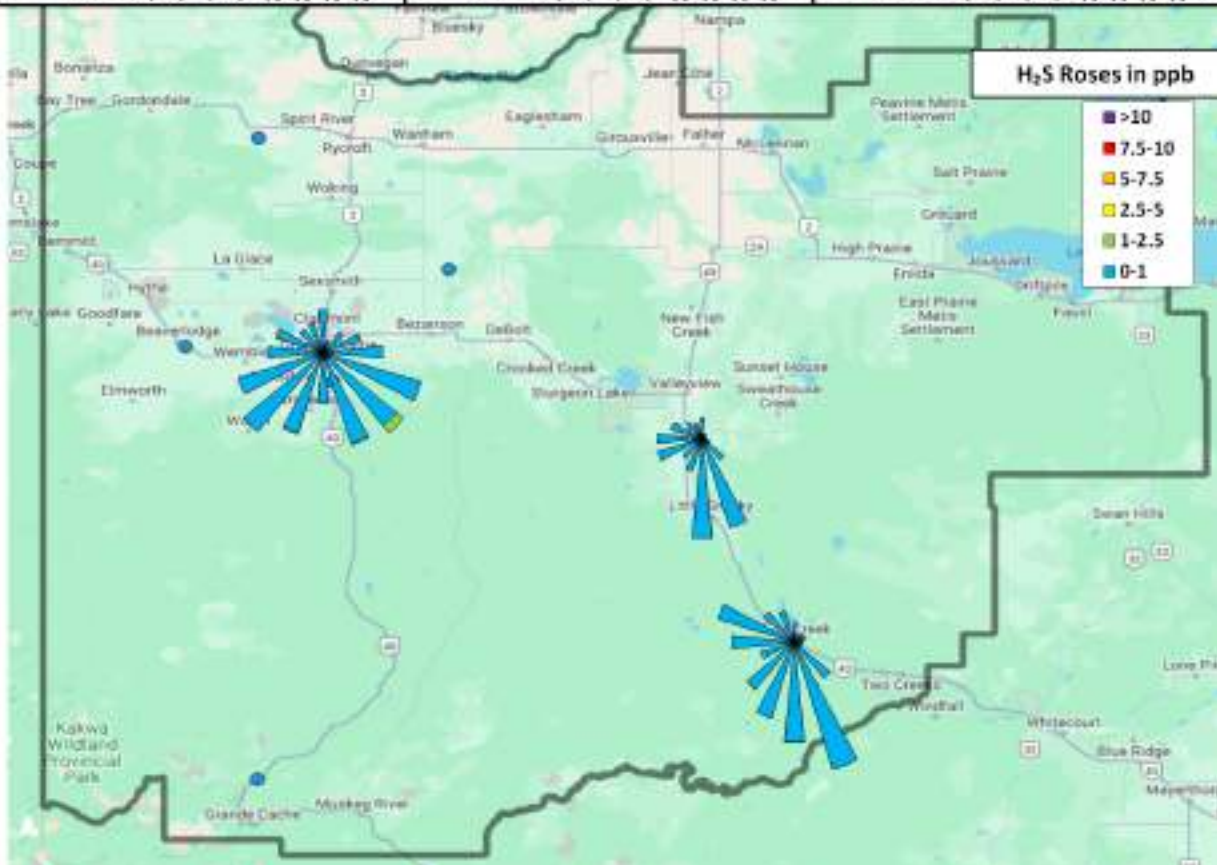
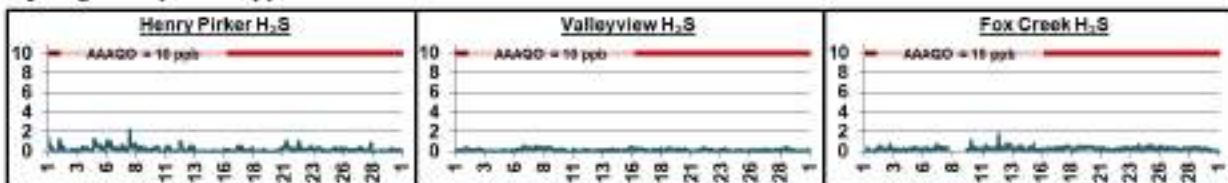
10.8 Hydrogen Sulphide (H₂S) Plots

September 2024 H₂S Station Summary

Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirkie H ₂ S	0.2	2.2
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.5
Fox Creek H ₂ S	0.2	1.7
Happy Valley H ₂ S	-	-
Milner H ₂ S	-	-



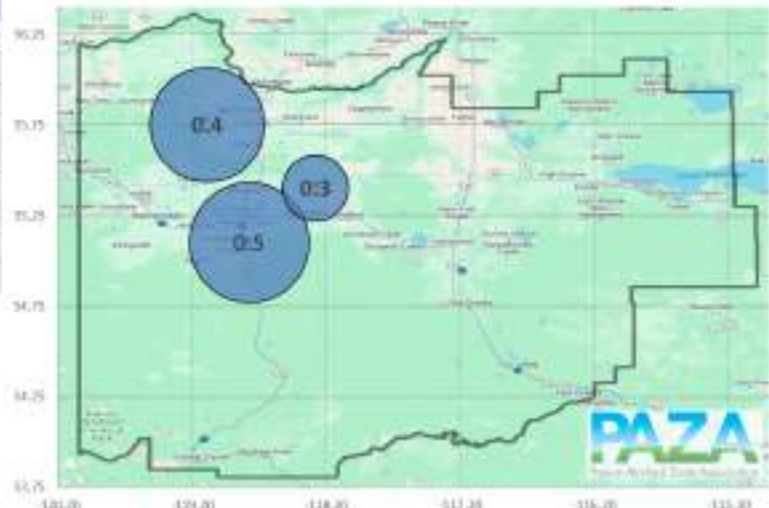
Hydrogen Sulphide in ppb



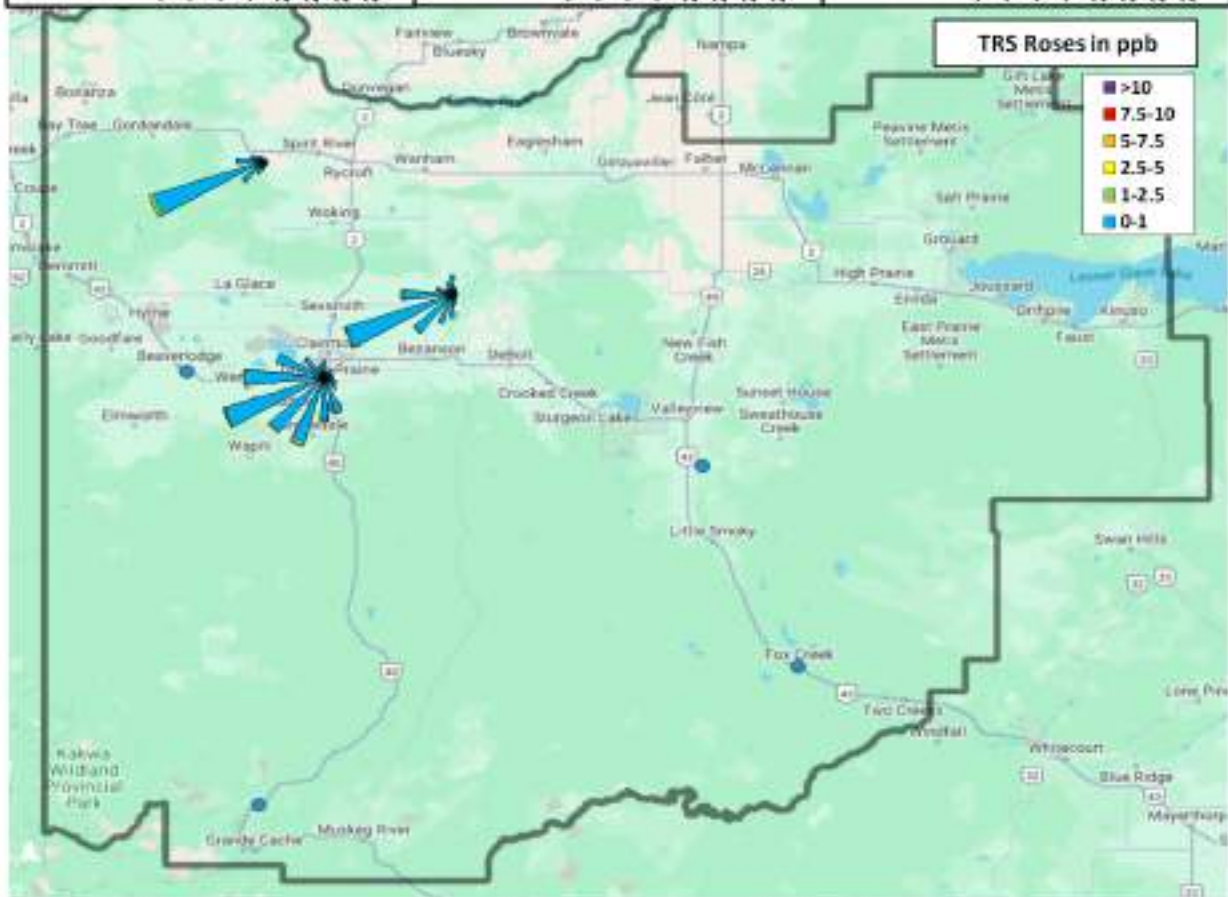
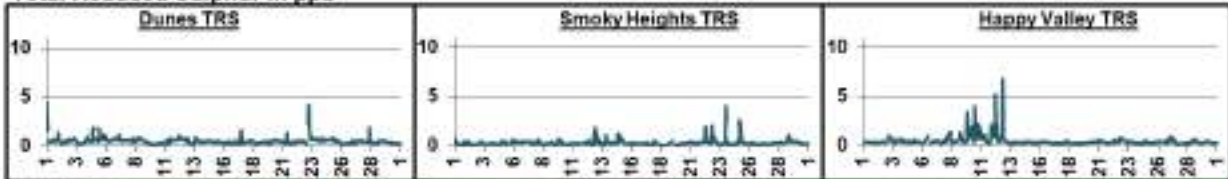
10.9 Total Reduced Sulphur (TRS) Plots

September 2024 TRS Station Summary

Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.5	4.4
Henry Pirkie TRS	-	-
Smoky Heights TRS	0.3	4.0
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Fox Creek TRS	-	-
Happy Valley TRS	0.4	6.8
Milner TRS	-	-



Total Reduced Sulphur in ppb

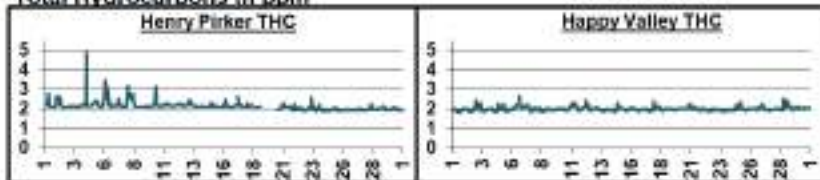


10.10 Total Hydrocarbon (THC) Plots

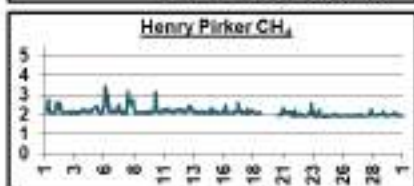
September 2024 THC Station Summary

Station	Total Hydrocarbons		Methane		Non-Methane HCs	
	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)
Dunes THC	-	-	-	-	-	-
Henry Parker THC	2.1	4.9	2.1	3.5	0.00	2.70
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Fox Creek THC	-	-	-	-	-	-
Happy Valley THC	2.0	2.6	-	-	-	-

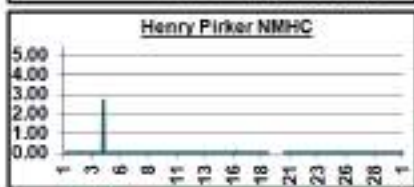
Total Hydrocarbons in ppm



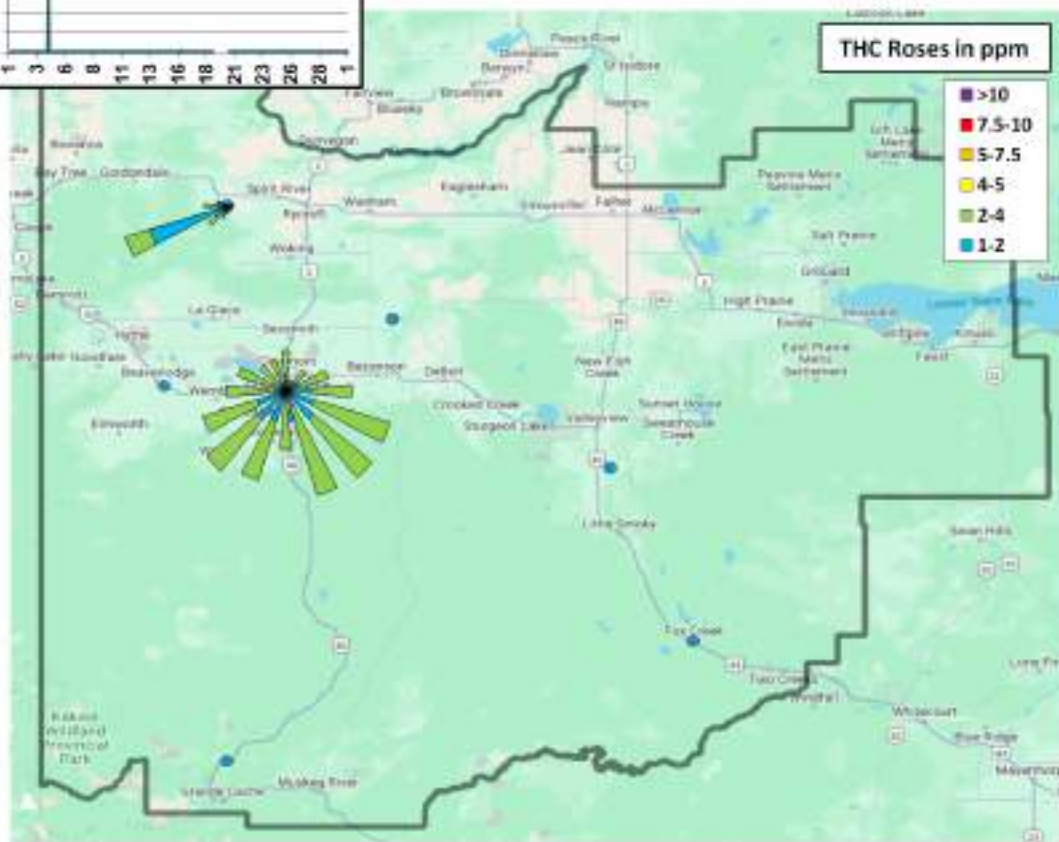
Total Hydrocarbons (THC)



Methane (CH₄)



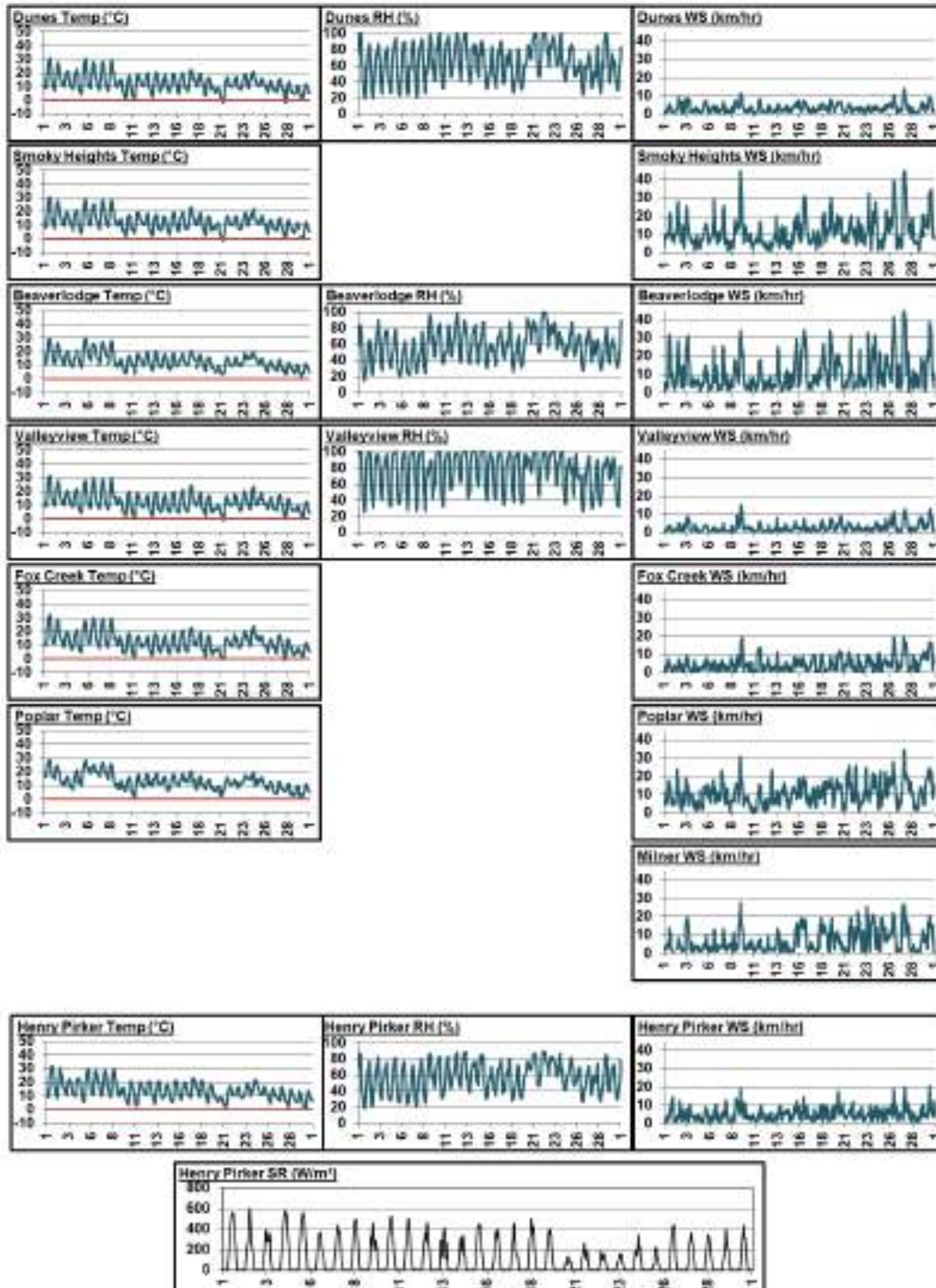
Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary

September 2024 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m²)	WS (km/hr)	WD (deg)	WD
Dunes	12.6	63.6	-	3.1	246	WSW
Henry Parker	13.7	57.3	108.5	5.1	180	S
Smoky Heights	12.4	-	-	11.5	249	WSW
Beaverlodge	13.1	57.5	-	10.8	260	W
Valleyview	12.3	75.6	-	2.8	158	WSW
Fox Creek	12.4	-	-	4.7	242	WSW
Happy Valley	13.0	-	-	10.6	245	WSW
Milner	-	-	-	6.8	246	WSW

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



11 Passive Monitoring Data - update

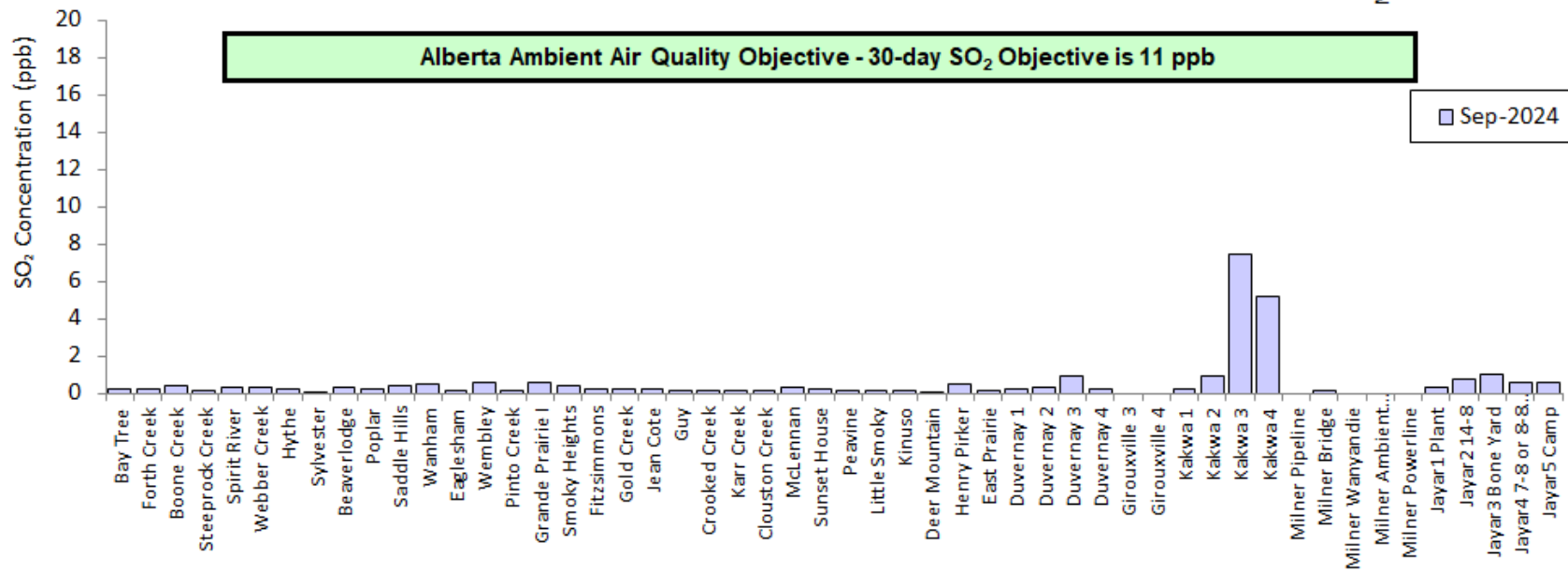
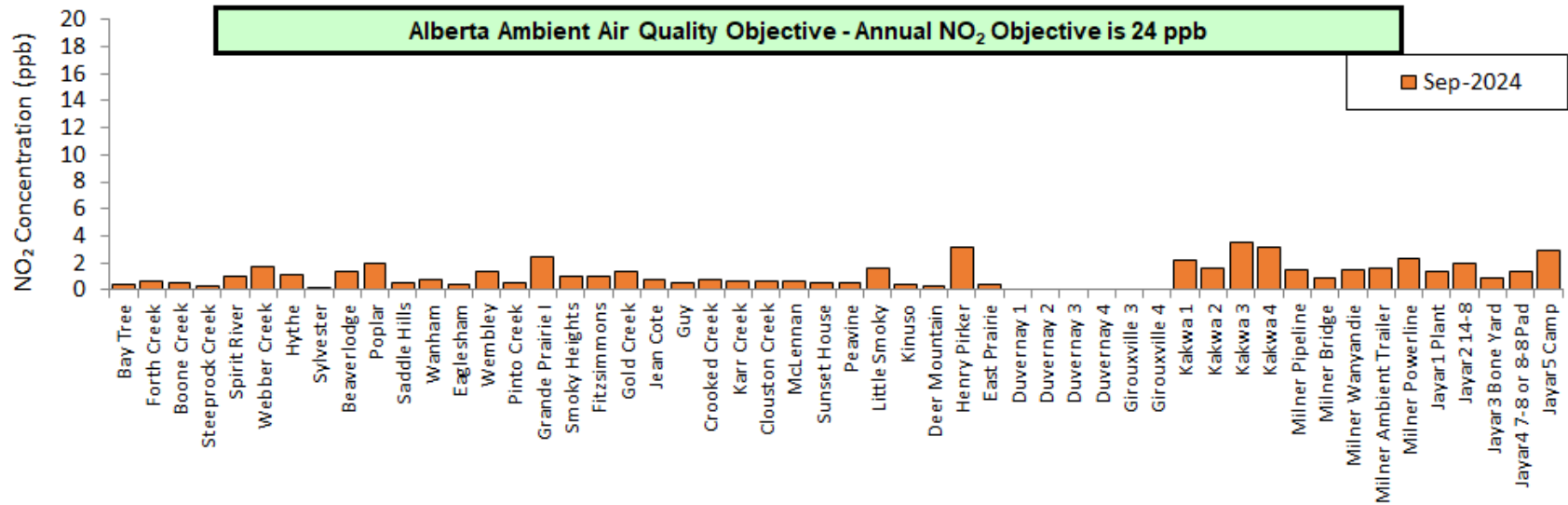
Peace Airshed Zone Association - PAZA Passive Stations for September 2024

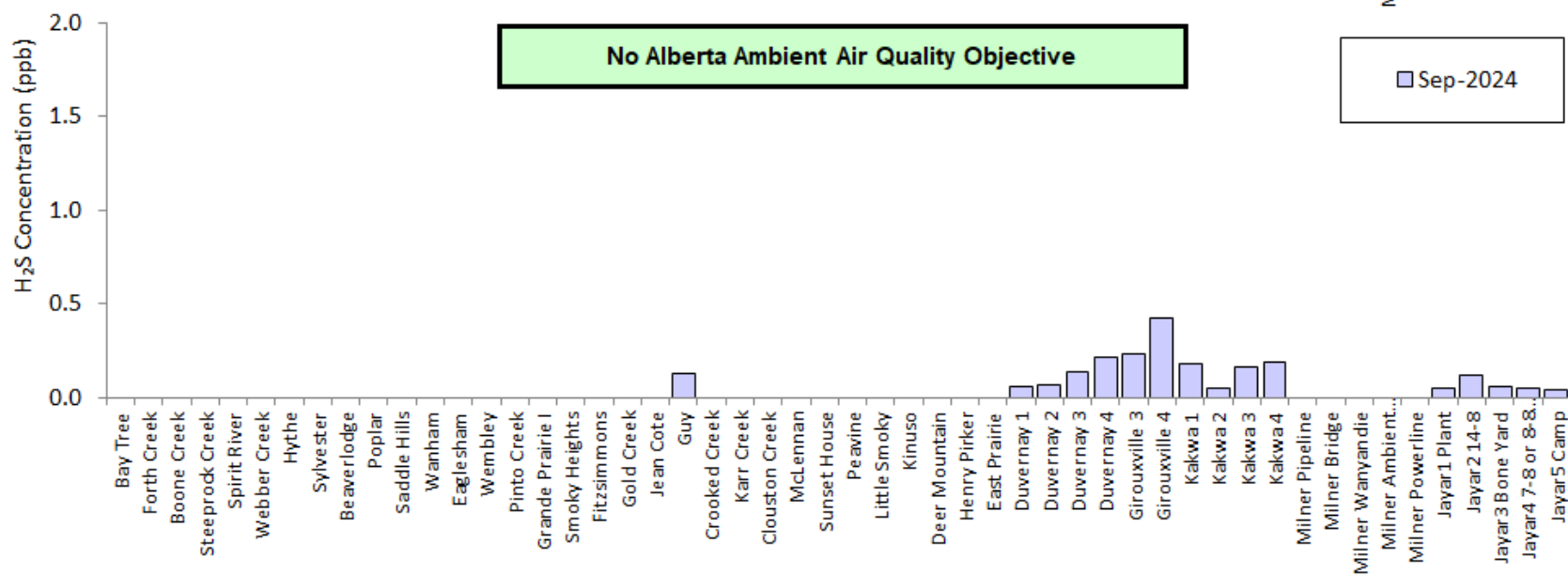
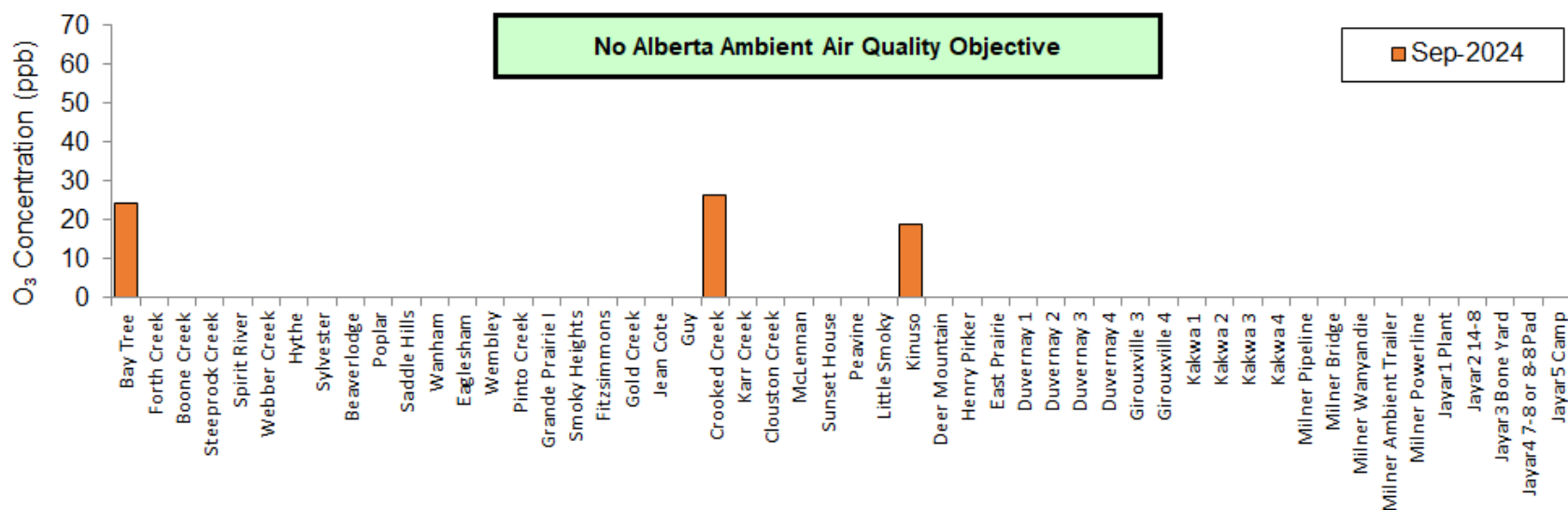
Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	H ₂ S ppb	LSD
Duplicates						
7a	Steeprock Creek	0.2				09-35-072-13 W6M
7b	Steeprock Creek	0.2				
12a	Hythe	0.2				14-38-072-11 W6M
12b	Hythe	0.2				
17a	Poplar			1.6		13-06-073-08 W6M
17b	Poplar			2.3		
19a	Wanham	0.4				16-22-077-03 W6M
19b	Wanham	0.5				
21a	Eaglesham			0.4		16-21-079-25 W5M
21b	Eaglesham			0.4		
25a	Pinto Creek			0.5		04-24-069-11 W6M
25b	Pinto Creek			0.5		
40a	McLennan	0.3				03-29-077-19 W5M
40b	McLennan	0.3				
47a	Kinuso		20.3	0.4		12-10-073-10 W5M
47b	Kinuso		17.8	0.4		
D1a	Duvernay 1	0.3			0.06	04-33-062-20 W5M
D1b	Duvernay 1	0.3			0.06	
G3a	Girouxville 3				0.23	14-02-077-23 W5M
G3b	Girouxville 3				0.20	
K2a	Kakwa 2			1.6		08-13-063-05 W6M
K2b	Kakwa 2			1.5		
K3a	Kakwa 3	9.1				12-18-063-04 W6M
K3b	Kakwa 3	5.8				
K4a	Kakwa 4				0.19	06-18-063-04 W6M
K4b	Kakwa 4				0.17	
M9Aa	Milner Pipeline			1.5		12-14-058-08 W6M
M9Ab	Milner Pipeline			1.4		
M7a	Milner Wanyandie	<0.1				11-13-058-08 W6M
M7b	Milner Wanyandie	<0.1				
J4a	Jayan4 7-8 or 8-8 Pad			1.4		10-08-062-03 W6M
J4b	Jayan4 7-8 or 8-8 Pad			1.3		
J5a	Jayan5 Camp	0.6				11-08-062-03 W6M
J5b	Jayan5 Camp	0.6				
J1a	Jayan1 Plant				0.06	06-08-062-03 W6M
J1b	Jayan1 Plant				0.04	

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.2	24.6	0.4	-	13-16-078-13 WSM
3	Forth Creek	0.2	-	0.6	-	04-13-082-07 WSM
5	Boone Creek	0.4	-	0.8	-	01-23-076-11 WSM
7	Steeprock Creek	0.2	-	0.3	-	09-35-072-13 WSM
9	Spirit River	0.3	-	1.0	-	08-12-079-07 WSM
11	Webber Creek	0.3	-	1.7	-	09-36-074-09 WSM
12	Hythe	0.2	-	1.1	-	14-36-072-11 WSM
14	Sylvester	0.1	-	0.2	-	08-06-069-12 WSM
16	Beaverlodge	0.3	-	1.4	-	15-36-071-10 WSM
17	Poplar	0.2	-	2.0	-	13-05-073-08 WSM
18	Saddle Hills	0.4	-	0.6	-	04-25-074-07 WSM
19	Wanham	0.4	-	0.8	-	16-22-077-03 WSM
21	Eaglesham	0.2	-	0.4	-	16-21-079-25 WSM
24	Wembley	0.5	-	1.4	-	12-31-070-08 WSM
25	Pinto Creek	0.1	-	0.5	-	04-24-069-11 WSM
27	Grande Prairie I	0.6	-	2.5	-	08-15-071-06 WSM
29	Smoky Heights	0.4	-	1.0	-	04-06-075-02 WSM
30	Fitzsimmons	0.2	-	1.0	-	15-36-072-03 WSM
32	Gold Creek	0.2	-	1.4	-	06-33-067-05 WSM
35	Jean Cote	0.2	-	0.8	-	12-35-079-21 WSM
36	Guy	0.2	-	0.5	0.1	03-04-076-22 WSM
37	Crooked Creek	0.1	26.6	0.8	-	16-01-071-26 WSM
38	Karr Creek	0.1	-	0.6	-	10-16-065-02 WSM
39	Clouston Creek	0.1	-	0.6	-	12-01-073-22 WSM
40	McLennan	0.3	-	0.6	-	03-29-077-19 WSM
42	Sunset House	0.2	-	0.8	-	05-32-070-19 WSM
44	Peavine	0.1	-	0.5	-	03-05-079-15 WSM
46	Little Smoky	0.1	-	1.6	-	12-01-065-21 WSM
47	Kinuso	0.1	19.0	0.4	-	12-10-073-10 WSM
48	Deer Mountain	0.1	-	0.3	-	15-22-068-09 WSM
49	Henry Parker	0.5	-	3.1	-	17-26-071-06 WSM
50	East Prairie	0.2	-	0.4	-	11-13-079-08 WSM
D1	Duvernay 1	0.3	-	-	0.06	04-33-062-20 WSM
D2	Duvernay 2	0.3	-	-	0.06	04-33-062-20 WSM
D3	Duvernay 3	1.0	-	-	0.14	04-33-062-20 WSM
D4	Duvernay 4	0.3	-	-	0.22	04-33-062-20 WSM
G3	Grouville 3	-	-	-	0.23	14-02-077-23 WSM
G4	Grouville 4	-	-	-	0.42	04-08-077-22 WSM
K1	Kakwa 1	0.2	-	2.2	0.18	01-13-063-05 WSM
K2	Kakwa 2	0.9	-	1.6	0.05	08-13-063-05 WSM
K3	Kakwa 3	7.5	-	3.5	0.16	12-18-063-04 WSM
K4	Kakwa 4	5.2	-	3.2	0.19	06-18-063-04 WSM
M1	Milner Pipeline	<0.1	-	1.5	-	12-14-058-08 WSM
M2	Milner Bridge	0.1	-	0.9	-	08-06-057-08 WSM
M3	Milner Wanyandie	<0.1	-	1.5	-	11-13-058-08 WSM
M4	Milner Ambient Trailer	<0.1	-	1.6	-	09-15-058-08 WSM
M5	Milner Powerline	<0.1	-	2.3	-	06-14-058-08 WSM
J1	Jayar1 Plant	0.3	-	1.4	0.05	06-08-062-03 WSM
J2	Jayar2 14-8	0.7	-	2.0	0.12	07-08-062-03 WSM
J3	Jayar3 Bone Yard	1.0	-	0.9	0.06	14-08-062-03 WSM
J4	Jayar4 7-8 or 8-8 Pad	0.6	-	1.4	0.05	10-08-062-03 WSM
J5	Jayar5 Camp	0.6	-	2.9	0.05	11-08-062-03 WSM

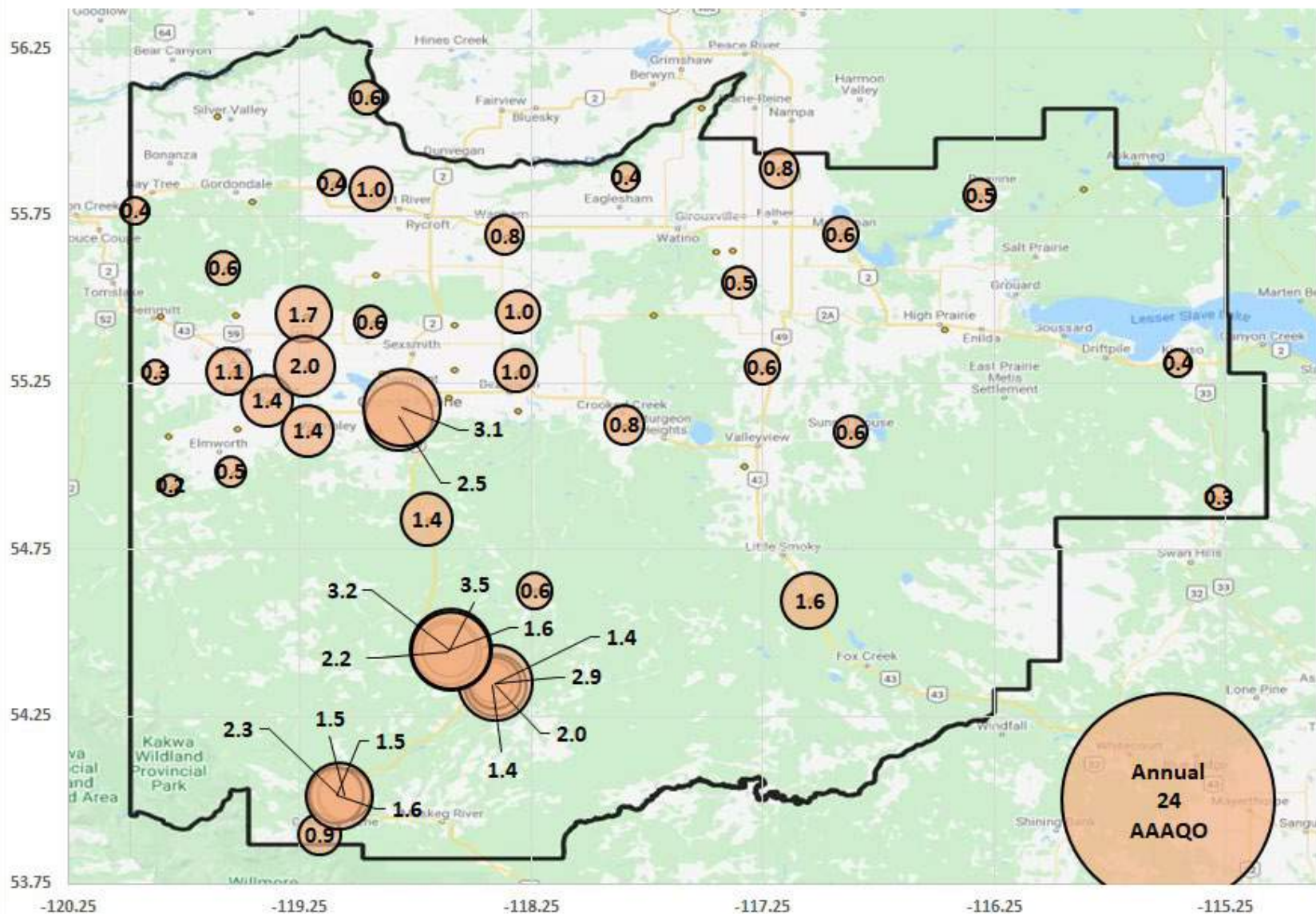
Passive Summary for September 2024

Stats	Sulphur Dioxide SO ₂ ppb	Ozone O ₃ ppb	Nitrogen Dioxide NO ₂ ppb	Hydrogen Sulphide H ₂ S ppb
Passive Summary for May 2024 (PAZA)				
Mean	0.6	23.4	1.2	0.1
Standard Deviation	1.3	3.9	0.8	0.1
Minimum	0.1	19.0	0.2	0.0
Maximum	Sylvester (#14)	Kinuso (#47)	Sylvester (#14)	Jayar5 Camp (#J5)
	7.5 Kakwa 3 (#K3)	26.6 Crooked Creek (#37)	3.5 Kakwa 3 (#K3)	0.4 Girouxville 4 (#G4)
Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.3	27.4	2.6	-
Beaverlodge Passive (#16)	0.3	-	1.4	-
PAZA Henry Pirker Station	0.2	23.7	6.0	0.2
Henry Pirker passive (#49)	0.5	-	3.1	-
Milner Station	-	-	2.5	-
Milner passive	<0.1	-	1.6	-

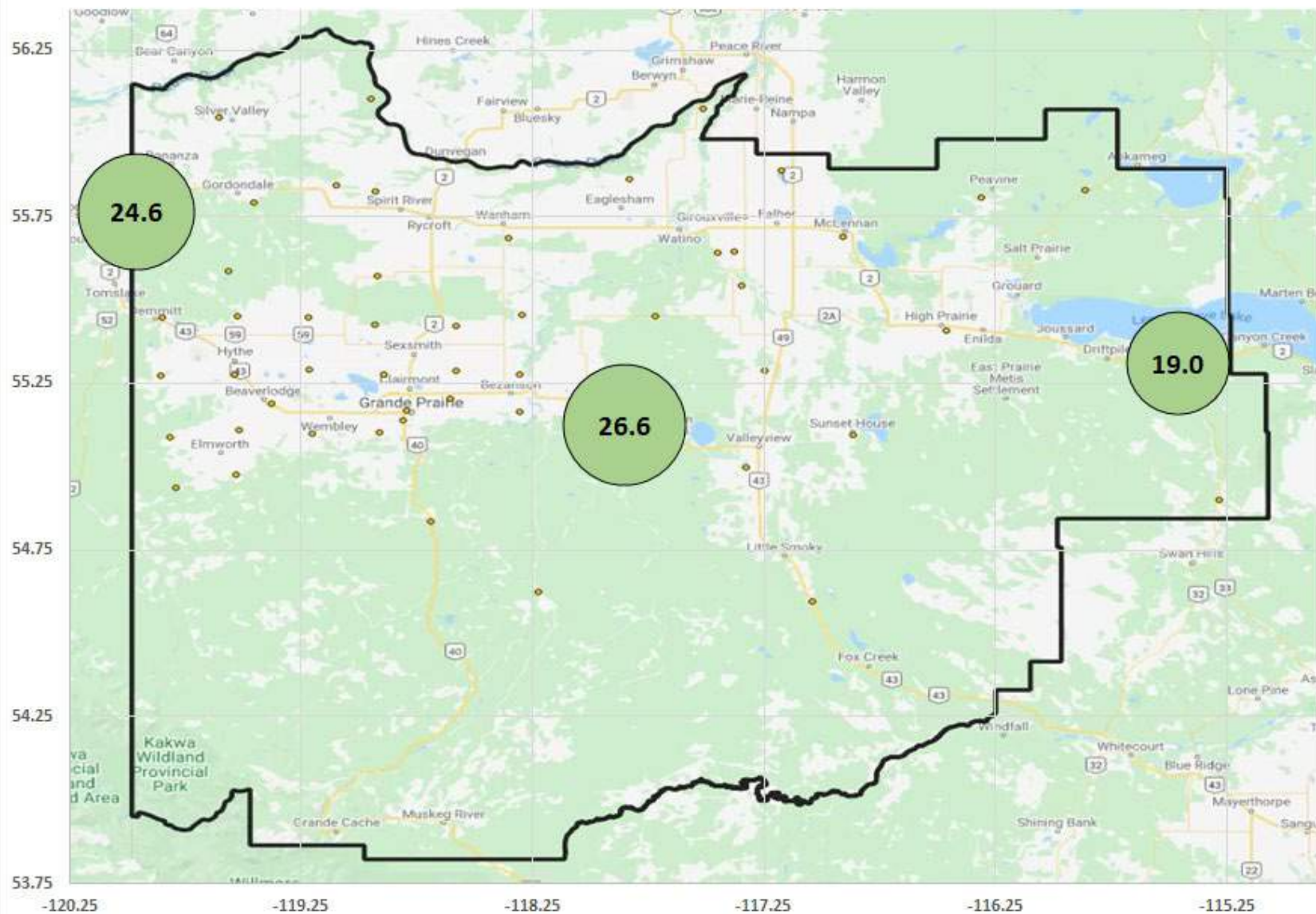




NO₂ Monthly Average (units in ppb)



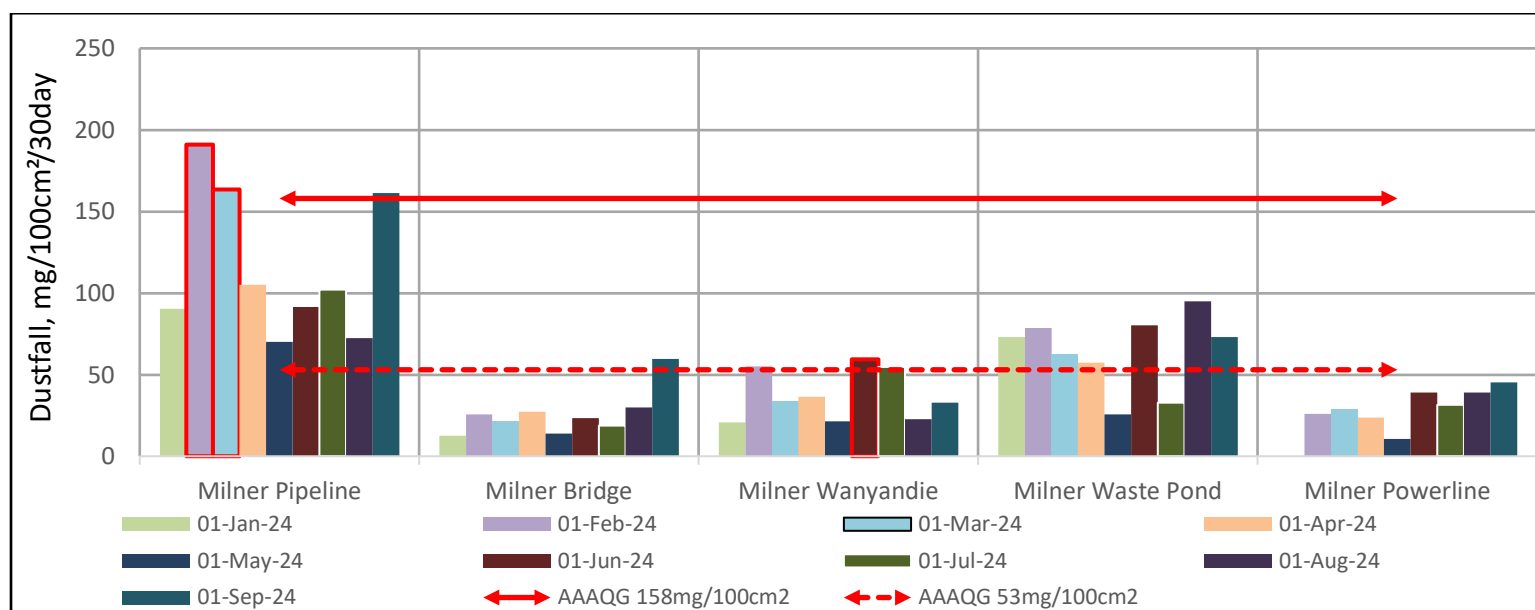
O₃ Monthly Average (units in ppb)



12 Dustfall Monitoring Data - update

Milner Dustfall Samples September 2024

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
September	2024	Milner Pipeline	161.3	58.8	29	reading>AAAQG; 434535
September	2024	Milner Bridge	59.6	14.3	29	
September	2024	Milner Wanyandie	32.8	14.3	29	
September	2024	Milner Waste Pond	73.1	29.4	29	
September	2024	Milner Powerline	45.4	18.5	29	
September	2024	Milner Powerline Dup	49.6	18.5	29	RPD, 9% / 0%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

September 2024