



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

September 2023

October 31, 2023

Alberta Environment and Parks

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

Subject: **Peace Airshed Zone Association (PAZA)**
September 2023 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of September 2023.

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

Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager
Box 21135
Grande Prairie, Alberta T8V 6W7
Email: Mandeep@paza.ca
Phone: 403-608-9697

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, Donnelly (station was decommissioned for move), Poplar-Portable and Milner.

Detailed Summaries are included in the report.

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for September 2023 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
	Ante Creek	02-26-068-25-W5	00266694-00-00
	Gordondale	02-26-068-25-W5	00287474-00-00
Apache Canada Ltd.	House Mountain	01-08-070-10-W5	00010137-02-02
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
	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:

- 466 PM_{2.5} 1hr readings above AAAQG and 52 PM_{2.5} 24hr readings above AAAQO

1-hr readings above the PM_{2.5} AAAQG (80 µg/m³) was recorded as:

Site	Reference Number	Date	From MST	To MST	Average (µg/m ³)	WS km/hr	WD degrees
Beaverlodge	418872	Sep-01-2023	20:00	21:00	86.7	24.8	270
Beaverlodge	418872	Sep-01-2023	21:00	22:00	98.7	17.9	269
Beaverlodge	418872	Sep-02-2023	02:00	03:00	101.4	10.8	296
Beaverlodge	418872	Sep-02-2023	03:00	04:00	131.9	15.0	299
Beaverlodge	418872	Sep-02-2023	11:00	12:00	82.6	19.1	303
Beaverlodge	418872	Sep-02-2023	12:00	13:00	81.9	18.4	291
Beaverlodge	418872	Sep-02-2023	19:00	20:00	130.2	20.2	257
Beaverlodge	418872	Sep-02-2023	20:00	21:00	113.9	6.7	244
Beaverlodge	418872	Sep-02-2023	21:00	22:00	83.4	8.1	284
Beaverlodge	418872	Sep-02-2023	22:00	23:00	89.9	3.6	280
Beaverlodge	418872	Sep-03-2023	23:00	00:00	105.6	4.5	211
Beaverlodge	418872	Sep-03-2023	00:00	01:00	106.3	1.9	83
Beaverlodge	418872	Sep-03-2023	01:00	02:00	112.5	3.9	34
Beaverlodge	418872	Sep-03-2023	02:00	03:00	149.3	5.3	298
Beaverlodge	418872	Sep-03-2023	03:00	04:00	150.7	9.2	259
Beaverlodge	418872	Sep-03-2023	04:00	05:00	353.4	12.9	250
Beaverlodge	418872	Sep-03-2023	05:00	06:00	261.6	13.1	223
Beaverlodge	418872	Sep-03-2023	06:00	07:00	218.0	8.9	228
Beaverlodge	418872	Sep-03-2023	07:00	08:00	238.2	5.2	222
Beaverlodge	418872	Sep-03-2023	08:00	09:00	185.9	10.1	245
Beaverlodge	418872	Sep-03-2023	09:00	10:00	180.7	17.0	252
Beaverlodge	418872	Sep-03-2023	10:00	11:00	164.6	19.8	269
Beaverlodge	418872	Sep-03-2023	12:00	13:00	147.8	17.3	324
Beaverlodge	418872	Sep-03-2023	13:00	14:00	315.8	16.0	343
Beaverlodge	418872	Sep-03-2023	14:00	15:00	294.2	15.5	1
Beaverlodge	418872	Sep-03-2023	15:00	16:00	267.8	16.6	28
Beaverlodge	418872	Sep-03-2023	16:00	17:00	256.2	11.9	35
Beaverlodge	418872	Sep-03-2023	17:00	18:00	276.3	5.9	28
Beaverlodge	418872	Sep-03-2023	18:00	19:00	283.3	6.5	352
Beaverlodge	418872	Sep-03-2023	19:00	20:00	216.9	14.4	1
Beaverlodge	419196	Sep-06-2023	10:00	11:00	83.2	4.2	188
Beaverlodge	419196	Sep-06-2023	11:00	12:00	82.9	9.4	246
Beaverlodge	419625	Sep-11-2023	11:00	12:00	232.8	18.1	280
Beaverlodge	419625	Sep-11-2023	12:00	13:00	266.2	15.1	274
Beaverlodge	419625	Sep-11-2023	13:00	14:00	199.2	14.3	262
Beaverlodge	419625	Sep-11-2023	14:00	15:00	94.9	21.2	275
Beaverlodge	419625	Sep-14-2023	05:00	06:00	116.8	2.9	82
Beaverlodge	419625	Sep-14-2023	06:00	07:00	125.3	3.6	62
Beaverlodge	419625	Sep-14-2023	07:00	08:00	108.5	5.4	44
Beaverlodge	419625	Sep-14-2023	08:00	09:00	91.3	3.9	74
Beaverlodge	419625	Sep-15-2023	21:00	22:00	153.5	13.8	325
Beaverlodge	419625	Sep-15-2023	22:00	23:00	308.3	8.1	354
Beaverlodge	419625	Sep-16-2023	23:00	00:00	382.0	8.9	322
Beaverlodge	419625	Sep-16-2023	00:00	01:00	422.3	12.5	311
Beaverlodge	419625	Sep-16-2023	01:00	02:00	428.4	7.3	299
Beaverlodge	419625	Sep-16-2023	02:00	03:00	430.2	3.7	224
Beaverlodge	419625	Sep-16-2023	03:00	04:00	435.7	5.2	255

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Beaverlodge	419625	Sep-16-2023	04:00	05:00	437.3	5.8	281
Beaverlodge	419625	Sep-16-2023	05:00	06:00	438.5	4.0	292
Beaverlodge	419625	Sep-16-2023	06:00	07:00	482.0	6.5	278
Beaverlodge	419625	Sep-16-2023	07:00	08:00	492.3	1.9	55
Beaverlodge	419625	Sep-16-2023	08:00	09:00	499.1	2.5	91
Beaverlodge	419625	Sep-16-2023	09:00	10:00	548.8	5.5	156
Beaverlodge	419625	Sep-16-2023	10:00	11:00	489.4	5.6	160
Beaverlodge	419625	Sep-16-2023	11:00	12:00	410.6	5.2	162
Beaverlodge	419625	Sep-16-2023	12:00	13:00	313.5	2.2	187
Beaverlodge	419625	Sep-16-2023	13:00	14:00	227.5	2.6	243
Beaverlodge	419625	Sep-16-2023	14:00	15:00	197.2	1.8	112
Beaverlodge	419625	Sep-16-2023	15:00	16:00	181.8	2.6	91
Beaverlodge	419625	Sep-16-2023	16:00	17:00	180.8	10.6	140
Beaverlodge	419625	Sep-16-2023	17:00	18:00	210.7	9.8	124
Beaverlodge	419625	Sep-16-2023	18:00	19:00	193.6	9.0	113
Beaverlodge	419625	Sep-16-2023	19:00	20:00	188.6	5.5	73
Beaverlodge	419625	Sep-16-2023	20:00	21:00	238.2	6.1	70
Beaverlodge	419625	Sep-16-2023	21:00	22:00	285.7	5.8	1
Beaverlodge	419625	Sep-16-2023	22:00	23:00	297.1	1.9	301
Beaverlodge	419625	Sep-17-2023	23:00	00:00	245.0	15.7	312
Beaverlodge	419625	Sep-17-2023	00:00	01:00	230.1	9.6	340
Beaverlodge	419625	Sep-17-2023	01:00	02:00	194.9	10.0	321
Beaverlodge	419625	Sep-17-2023	02:00	03:00	196.4	7.0	298
Beaverlodge	419625	Sep-17-2023	03:00	04:00	195.0	3.6	21
Beaverlodge	419625	Sep-17-2023	04:00	05:00	194.9	1.4	124
Beaverlodge	419625	Sep-17-2023	05:00	06:00	187.2	1.4	97
Beaverlodge	419625	Sep-17-2023	06:00	07:00	178.7	5.7	48
Beaverlodge	419625	Sep-17-2023	07:00	08:00	187.2	1.1	57
Beaverlodge	419625	Sep-17-2023	08:00	09:00	212.9	1.4	261
Beaverlodge	419625	Sep-17-2023	09:00	10:00	209.6	1.4	175
Beaverlodge	419625	Sep-17-2023	10:00	11:00	212.7	5.3	214
Beaverlodge	419625	Sep-17-2023	11:00	12:00	202.1	10.9	224
Beaverlodge	419625	Sep-17-2023	12:00	13:00	217.6	14.0	219
Beaverlodge	419625	Sep-17-2023	13:00	14:00	192.0	11.9	218
Beaverlodge	419625	Sep-17-2023	14:00	15:00	133.3	12.2	252
Beaverlodge	419625	Sep-17-2023	15:00	16:00	152.6	9.9	244
Beaverlodge	419625	Sep-17-2023	16:00	17:00	176.7	11.4	250
Dunes	418873	Sep-02-2023	02:00	03:00	98.0	7.6	303
Dunes	418873	Sep-03-2023	04:00	05:00	141.4	4.9	272
Dunes	418873	Sep-03-2023	05:00	06:00	230.7	5.4	224
Dunes	418873	Sep-03-2023	06:00	07:00	190.5	5.6	217
Dunes	418873	Sep-03-2023	07:00	08:00	164.9	5.6	223
Dunes	418873	Sep-03-2023	08:00	09:00	124.0	5.8	234
Dunes	418873	Sep-03-2023	09:00	10:00	101.2	5.9	244
Dunes	418873	Sep-03-2023	10:00	11:00	98.8	6.4	276
Dunes	418873	Sep-03-2023	13:00	14:00	126.6	9.0	336
Dunes	418873	Sep-03-2023	14:00	15:00	193.5	7.6	3
Dunes	418873	Sep-03-2023	15:00	16:00	147.3	7.2	31
Dunes	418873	Sep-03-2023	16:00	17:00	155.5	7.1	34
Dunes	418873	Sep-03-2023	17:00	18:00	169.9	3.6	47
Dunes	418873	Sep-03-2023	18:00	19:00	163.6	0.4	311
Dunes	418873	Sep-03-2023	19:00	20:00	159.2	0.8	309

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Dunes	419609	Sep-11-2023	13:00	14:00	117.7	4.4	277
Dunes	419609	Sep-11-2023	14:00	15:00	141.9	3.9	308
Dunes	419609	Sep-11-2023	15:00	16:00	115.5	1.2	242
Dunes	419609	Sep-11-2023	16:00	17:00	104.2	2.8	232
Dunes	419609	Sep-14-2023	23:00	00:00	86.3	3.8	239
Dunes	419609	Sep-14-2023	00:00	01:00	129.7	4.6	235
Dunes	419609	Sep-14-2023	01:00	02:00	131.7	3.6	249
Dunes	419609	Sep-14-2023	02:00	03:00	107.2	3.4	252
Dunes	419609	Sep-14-2023	03:00	04:00	84.7	1.9	281
Dunes	419609	Sep-16-2023	00:00	01:00	82.7	1.2	203
Dunes	419609	Sep-16-2023	01:00	02:00	87.1	1.5	191
Dunes	419609	Sep-16-2023	02:00	03:00	87.4	1.4	217
Dunes	419609	Sep-16-2023	03:00	04:00	94.8	1.4	192
Dunes	419609	Sep-16-2023	04:00	05:00	83.2	1.8	201
Dunes	419609	Sep-16-2023	05:00	06:00	119.7	3.7	196
Dunes	419609	Sep-16-2023	06:00	07:00	159.6	0.8	200
Dunes	419609	Sep-16-2023	07:00	08:00	159.6	0.8	234
Dunes	419609	Sep-16-2023	08:00	09:00	163.0	2.6	196
Dunes	419609	Sep-16-2023	09:00	10:00	109.4	3.7	193
Dunes	419609	Sep-16-2023	10:00	11:00	111.2	2.5	192
Dunes	419609	Sep-16-2023	11:00	12:00	141.3	0.3	25
Dunes	419609	Sep-16-2023	12:00	13:00	156.2	1.6	320
Dunes	419609	Sep-16-2023	13:00	14:00	150.1	1.4	12
Dunes	419609	Sep-16-2023	14:00	15:00	110.3	5.0	147
Dunes	419609	Sep-16-2023	15:00	16:00	114.9	4.8	134
Dunes	419609	Sep-16-2023	16:00	17:00	129.1	2.2	128
Dunes	419609	Sep-16-2023	17:00	18:00	124.3	1.2	114
Dunes	419609	Sep-16-2023	18:00	19:00	119.9	0.4	281
Dunes	419609	Sep-16-2023	19:00	20:00	122.8	0.8	302
Dunes	419609	Sep-16-2023	20:00	21:00	140.7	1.1	354
Dunes	419609	Sep-16-2023	21:00	22:00	154.3	1.0	354
Dunes	419609	Sep-16-2023	22:00	23:00	167.8	0.6	193
Dunes	419609	Sep-17-2023	23:00	00:00	173.5	1.6	186
Dunes	419609	Sep-17-2023	00:00	01:00	180.9	2.1	273
Dunes	419609	Sep-17-2023	01:00	02:00	188.1	1.5	257
Dunes	419609	Sep-17-2023	02:00	03:00	158.2	2.7	242
Dunes	419609	Sep-17-2023	03:00	04:00	131.8	3.9	265
Dunes	419609	Sep-17-2023	04:00	05:00	122.4	3.7	263
Dunes	419609	Sep-17-2023	05:00	06:00	108.2	3.1	283
Dunes	419609	Sep-17-2023	06:00	07:00	107.5	0.4	311
Dunes	419609	Sep-17-2023	07:00	08:00	99.1	3.4	237
Dunes	419609	Sep-17-2023	08:00	09:00	107.4	4.9	233
Dunes	419609	Sep-17-2023	09:00	10:00	139.4	4.4	243
Dunes	419609	Sep-17-2023	10:00	11:00	157.2	3.4	246
Dunes	419609	Sep-17-2023	11:00	12:00	154.1	2.4	243
Dunes	419609	Sep-17-2023	12:00	13:00	148.7	3.3	208
Dunes	419609	Sep-17-2023	13:00	14:00	152.6	3.0	177
Dunes	419609	Sep-17-2023	14:00	15:00	157.2	4.1	187
Dunes	419609	Sep-17-2023	15:00	16:00	149.8	3.1	175
Dunes	419609	Sep-17-2023	16:00	17:00	148.3	3.7	177
Dunes	419609	Sep-17-2023	17:00	18:00	142.2	1.9	175
Dunes	419609	Sep-17-2023	18:00	19:00	133.6	1.3	173

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Dunes	419609	Sep-17-2023	19:00	20:00	131.8	3.3	167
Dunes	419609	Sep-17-2023	20:00	21:00	122.2	3.7	167
Dunes	419609	Sep-17-2023	21:00	22:00	121.0	3.4	165
Dunes	419609	Sep-17-2023	22:00	23:00	122.6	3.6	171
Dunes	419948	Sep-18-2023	23:00	00:00	90.0	4.0	296
Dunes	419948	Sep-20-2023	12:00	13:00	86.5	4.0	349
Dunes	419948	Sep-20-2023	13:00	14:00	96.6	1.4	349
Dunes	419948	Sep-20-2023	14:00	15:00	106.1	1.5	335
Dunes	419948	Sep-20-2023	15:00	16:00	105.2	0.3	144
Dunes	419948	Sep-20-2023	16:00	17:00	94.6	2.7	216
Henry Pirker	418872	Sep-01-2023	22:00	23:00	80.2	10.0	247
Henry Pirker	418872	Sep-02-2023	02:00	03:00	117.9	13.7	278
Henry Pirker	418872	Sep-02-2023	03:00	04:00	95.2	12.7	281
Henry Pirker	418872	Sep-02-2023	11:00	12:00	102.8	18.2	284
Henry Pirker	418872	Sep-02-2023	20:00	21:00	91.4	3.5	250
Henry Pirker	418872	Sep-02-2023	21:00	22:00	98.7	1.6	249
Henry Pirker	418872	Sep-02-2023	22:00	23:00	93.3	2.3	199
Henry Pirker	418872	Sep-03-2023	23:00	00:00	93.8	1.9	182
Henry Pirker	418872	Sep-03-2023	04:00	05:00	185.1	10.0	251
Henry Pirker	418872	Sep-03-2023	05:00	06:00	248.1	5.0	211
Henry Pirker	418872	Sep-03-2023	06:00	07:00	232.9	7.0	205
Henry Pirker	418872	Sep-03-2023	07:00	08:00	234.0	7.0	216
Henry Pirker	418872	Sep-03-2023	08:00	09:00	204.2	10.5	230
Henry Pirker	418872	Sep-03-2023	09:00	10:00	171.2	13.0	238
Henry Pirker	418872	Sep-03-2023	10:00	11:00	152.8	17.7	270
Henry Pirker	418872	Sep-03-2023	11:00	12:00	108.3	20.6	297
Henry Pirker	418872	Sep-03-2023	12:00	13:00	123.9	19.5	311
Henry Pirker	418872	Sep-03-2023	13:00	14:00	233.0	16.4	317
Henry Pirker	418872	Sep-03-2023	14:00	15:00	240.0	8.5	351
Henry Pirker	418872	Sep-03-2023	15:00	16:00	218.9	6.4	12
Henry Pirker	418872	Sep-03-2023	16:00	17:00	236.8	6.3	19
Henry Pirker	418872	Sep-03-2023	17:00	18:00	250.8	4.0	30
Henry Pirker	418872	Sep-03-2023	18:00	19:00	235.0	2.9	346
Henry Pirker	418872	Sep-03-2023	19:00	20:00	228.1	6.7	332
Henry Pirker	419608	Sep-11-2023	12:00	13:00	92.1	9.2	270
Henry Pirker	419608	Sep-11-2023	13:00	14:00	184.8	10.9	268
Henry Pirker	419608	Sep-11-2023	14:00	15:00	173.8	8.7	279
Henry Pirker	419608	Sep-11-2023	15:00	16:00	151.0	7.6	293
Henry Pirker	419608	Sep-13-2023	20:00	21:00	80.8	14.3	241
Henry Pirker	419608	Sep-13-2023	21:00	22:00	93.1	12.6	237
Henry Pirker	419608	Sep-13-2023	22:00	23:00	94.4	10.2	241
Henry Pirker	419608	Sep-14-2023	00:00	01:00	100.4	6.6	229
Henry Pirker	419608	Sep-14-2023	01:00	02:00	136.6	2.3	205
Henry Pirker	419608	Sep-14-2023	02:00	03:00	114.3	3.1	238
Henry Pirker	419608	Sep-14-2023	03:00	04:00	108.3	2.1	221
Henry Pirker	419608	Sep-14-2023	04:00	05:00	128.1	3.5	248
Henry Pirker	419608	Sep-14-2023	05:00	06:00	139.2	1.3	300
Henry Pirker	419608	Sep-14-2023	06:00	07:00	122.8	1.6	226
Henry Pirker	419608	Sep-14-2023	07:00	08:00	91.0	4.7	237
Henry Pirker	419608	Sep-16-2023	23:00	00:00	113.7	1.1	17
Henry Pirker	419608	Sep-16-2023	00:00	01:00	160.0	3.4	273
Henry Pirker	419608	Sep-16-2023	01:00	02:00	276.2	0.4	166

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Henry Pirker	419608	Sep-16-2023	02:00	03:00	285.6	1.0	165
Henry Pirker	419608	Sep-16-2023	03:00	04:00	337.4	1.2	125
Henry Pirker	419608	Sep-16-2023	04:00	05:00	321.0	3.5	143
Henry Pirker	419608	Sep-16-2023	05:00	06:00	283.2	5.2	154
Henry Pirker	419608	Sep-16-2023	06:00	07:00	294.6	2.3	146
Henry Pirker	419608	Sep-16-2023	07:00	08:00	382.4	3.7	151
Henry Pirker	419608	Sep-16-2023	08:00	09:00	424.4	3.4	158
Henry Pirker	419608	Sep-16-2023	09:00	10:00	366.9	2.9	163
Henry Pirker	419608	Sep-16-2023	10:00	11:00	301.9	2.5	180
Henry Pirker	419608	Sep-16-2023	11:00	12:00	259.9	2.8	206
Henry Pirker	419608	Sep-16-2023	12:00	13:00	272.7	3.3	198
Henry Pirker	419608	Sep-16-2023	13:00	14:00	256.4	1.1	134
Henry Pirker	419608	Sep-16-2023	14:00	15:00	241.5	4.3	118
Henry Pirker	419608	Sep-16-2023	15:00	16:00	202.2	6.8	104
Henry Pirker	419608	Sep-16-2023	16:00	17:00	216.5	5.2	114
Henry Pirker	419608	Sep-16-2023	17:00	18:00	208.8	4.9	95
Henry Pirker	419608	Sep-16-2023	18:00	19:00	237.4	3.0	95
Henry Pirker	419608	Sep-16-2023	19:00	20:00	308.0	3.4	82
Henry Pirker	419608	Sep-16-2023	20:00	21:00	310.5	2.5	10
Henry Pirker	419608	Sep-16-2023	21:00	22:00	299.9	3.5	53
Henry Pirker	419608	Sep-16-2023	22:00	23:00	297.0	5.5	75
Henry Pirker	419608	Sep-17-2023	23:00	00:00	298.2	5.2	103
Henry Pirker	419608	Sep-17-2023	00:00	01:00	286.4	3.3	272
Henry Pirker	419608	Sep-17-2023	01:00	02:00	281.3	5.3	314
Henry Pirker	419608	Sep-17-2023	02:00	03:00	261.1	6.7	260
Henry Pirker	419608	Sep-17-2023	03:00	04:00	200.6	7.5	274
Henry Pirker	419608	Sep-17-2023	04:00	05:00	190.0	4.8	264
Henry Pirker	419608	Sep-17-2023	05:00	06:00	185.0	3.5	274
Henry Pirker	419608	Sep-17-2023	06:00	07:00	178.6	5.7	296
Henry Pirker	419608	Sep-17-2023	07:00	08:00	176.2	3.5	212
Henry Pirker	419608	Sep-17-2023	08:00	09:00	185.5	5.7	244
Henry Pirker	419608	Sep-17-2023	09:00	10:00	196.3	6.9	229
Henry Pirker	419608	Sep-17-2023	10:00	11:00	211.1	6.3	229
Henry Pirker	419608	Sep-17-2023	11:00	12:00	206.3	5.2	223
Henry Pirker	419608	Sep-17-2023	12:00	13:00	200.7	6.4	213
Henry Pirker	419608	Sep-17-2023	13:00	14:00	210.1	6.6	200
Henry Pirker	419608	Sep-17-2023	14:00	15:00	203.1	7.7	197
Henry Pirker	419608	Sep-17-2023	15:00	16:00	213.9	7.0	165
Henry Pirker	419608	Sep-17-2023	16:00	17:00	223.1	5.5	173
Henry Pirker	419608	Sep-17-2023	17:00	18:00	184.4	4.9	205
Henry Pirker	419608	Sep-17-2023	18:00	19:00	161.7	2.7	207
Henry Pirker	419608	Sep-17-2023	19:00	20:00	157.2	3.8	117
Henry Pirker	419608	Sep-17-2023	20:00	21:00	190.2	3.5	115
Henry Pirker	419608	Sep-17-2023	21:00	22:00	188.2	4.6	119
Henry Pirker	419608	Sep-17-2023	22:00	23:00	180.1	3.3	124
Henry Pirker	419949	Sep-18-2023	23:00	00:00	105.4	12.4	289
Henry Pirker	419949	Sep-20-2023	10:00	11:00	80.0	7.5	292
Henry Pirker	419949	Sep-20-2023	11:00	12:00	96.6	6.2	294
Henry Pirker	419949	Sep-20-2023	12:00	13:00	126.4	1.3	254
Henry Pirker	419949	Sep-20-2023	13:00	14:00	143.4	1.7	150
Henry Pirker	419949	Sep-20-2023	14:00	15:00	154.8	0.5	289
Henry Pirker	419949	Sep-20-2023	15:00	16:00	169.4	1.2	305

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Henry Pirker	419949	Sep-20-2023	16:00	17:00	141.4	2.5	252
Henry Pirker	419949	Sep-20-2023	17:00	18:00	126.4	4.8	185
Henry Pirker	419949	Sep-20-2023	18:00	19:00	128.4	4.8	157
Henry Pirker	419949	Sep-20-2023	19:00	20:00	117.2	5.1	151
Henry Pirker	419949	Sep-20-2023	20:00	21:00	100.8	4.6	149
Henry Pirker	419949	Sep-20-2023	21:00	22:00	89.7	5.0	149
Milner	418875	Sep-02-2023	20:00	21:00	100.8	13.3	264
Milner	418875	Sep-02-2023	21:00	22:00	104.7	10.9	269
Milner	418875	Sep-02-2023	22:00	23:00	92.1	9.1	247
Milner	418875	Sep-03-2023	23:00	00:00	91.6	0.5	244
Milner	418875	Sep-03-2023	00:00	01:00	90.4	0.7	345
Milner	418875	Sep-03-2023	01:00	02:00	110.7	1.3	294
Milner	418875	Sep-03-2023	02:00	03:00	99.2	0.4	51
Milner	418875	Sep-03-2023	03:00	04:00	93.1	0.5	34
Milner	418875	Sep-03-2023	04:00	05:00	90.3	0.9	288
Milner	418875	Sep-03-2023	05:00	06:00	216.5	3.4	313
Milner	418875	Sep-03-2023	06:00	07:00	297.8	3.4	18
Milner	418875	Sep-03-2023	07:00	08:00	272.8	0.5	269
Milner	418875	Sep-03-2023	08:00	09:00	253.6	3.5	232
Milner	418875	Sep-03-2023	09:00	10:00	195.9	1.6	219
Milner	418875	Sep-03-2023	10:00	11:00	153.9	1.5	216
Milner	418875	Sep-03-2023	11:00	12:00	98.7	6.8	236
Milner	418875	Sep-03-2023	19:00	20:00	202.0	7.8	60
Milner	418875	Sep-03-2023	20:00	21:00	242.6	1.7	34
Milner	418875	Sep-03-2023	21:00	22:00	243.2	2.6	28
Milner	418875	Sep-03-2023	22:00	23:00	247.2	2.7	39
Milner	419194	Sep-04-2023	23:00	00:00	239.2	6.2	66
Milner	419194	Sep-04-2023	00:00	01:00	158.0	6.2	63
Milner	419194	Sep-04-2023	01:00	02:00	84.3	4.7	71
Milner	419194	Sep-04-2023	12:00	13:00	84.9	2.9	119
Milner	419194	Sep-04-2023	22:00	23:00	90.1	0.2	334
Milner	419194	Sep-05-2023	23:00	00:00	90.6	0.0	359
Milner	419194	Sep-05-2023	00:00	01:00	89.5	0.3	321
Milner	419194	Sep-05-2023	01:00	02:00	97.2	0.4	275
Milner	419194	Sep-05-2023	02:00	03:00	103.1	0.5	10
Milner	419194	Sep-05-2023	03:00	04:00	93.0	0.5	301
Milner	419194	Sep-05-2023	04:00	05:00	88.0	5.0	263
Milner	419194	Sep-05-2023	05:00	06:00	90.8	0.4	244
Milner	419194	Sep-05-2023	06:00	07:00	92.0	2.2	256
Milner	419194	Sep-05-2023	07:00	08:00	86.4	3.8	255
Milner	419607	Sep-16-2023	08:00	09:00	97.4	3.6	235
Milner	419607	Sep-16-2023	09:00	10:00	91.4	3.1	211
Milner	419607	Sep-16-2023	10:00	11:00	153.6	3.5	200
Milner	419607	Sep-16-2023	11:00	12:00	187.8	3.2	179
Milner	419607	Sep-16-2023	12:00	13:00	185.4	3.6	187
Milner	419607	Sep-16-2023	13:00	14:00	174.4	1.9	169
Milner	419607	Sep-16-2023	14:00	15:00	141.2	2.3	160
Milner	419607	Sep-17-2023	02:00	03:00	80.3	1.9	278
Milner	419607	Sep-17-2023	04:00	05:00	101.1	0.6	355
Milner	419607	Sep-17-2023	05:00	06:00	103.5	1.6	265
Milner	419607	Sep-17-2023	06:00	07:00	118.9	0.7	321
Milner	419607	Sep-17-2023	07:00	08:00	104.3	0.3	342

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Milner	419607	Sep-17-2023	08:00	09:00	81.7	0.5	218
Milner	419607	Sep-17-2023	10:00	11:00	93.0	0.9	149
Milner	419607	Sep-17-2023	11:00	12:00	88.0	1.9	132
Poplar	418877	Sep-02-2023	02:00	03:00	112.2	14.8	278
Poplar	418877	Sep-02-2023	03:00	04:00	94.3	15.0	289
Poplar	418877	Sep-02-2023	11:00	12:00	88.0	28.1	289
Poplar	418877	Sep-02-2023	20:00	21:00	82.2	10.0	248
Poplar	418877	Sep-02-2023	21:00	22:00	92.2	10.4	266
Poplar	418877	Sep-02-2023	22:00	23:00	85.6	5.8	261
Poplar	418877	Sep-03-2023	04:00	05:00	107.5	10.8	251
Poplar	418877	Sep-03-2023	05:00	06:00	127.5	6.9	242
Poplar	418877	Sep-03-2023	06:00	07:00	109.8	12.9	241
Poplar	418877	Sep-03-2023	07:00	08:00	104.5	16.6	248
Poplar	418877	Sep-03-2023	12:00	13:00	84.0	20.7	306
Poplar	418877	Sep-03-2023	13:00	14:00	164.9	14.6	339
Poplar	418877	Sep-03-2023	14:00	15:00	134.3	15.5	21
Poplar	418877	Sep-03-2023	15:00	16:00	149.6	15.5	7
Poplar	418877	Sep-03-2023	16:00	17:00	147.4	14.0	28
Poplar	418877	Sep-03-2023	17:00	18:00	148.5	8.4	31
Poplar	418877	Sep-03-2023	18:00	19:00	138.5	9.6	352
Poplar	418877	Sep-03-2023	19:00	20:00	92.9	19.4	1
Poplar	419604	Sep-11-2023	11:00	12:00	107.2	24.9	287
Poplar	419604	Sep-11-2023	12:00	13:00	241.2	24.1	285
Poplar	419604	Sep-11-2023	13:00	14:00	215.0	15.7	274
Poplar	419604	Sep-11-2023	14:00	15:00	118.8	21.9	284
Poplar	419604	Sep-15-2023	22:00	23:00	188.9	14.0	314
Poplar	419604	Sep-16-2023	23:00	00:00	346.5	8.6	310
Poplar	419604	Sep-16-2023	00:00	01:00	365.0	15.7	325
Poplar	419604	Sep-16-2023	01:00	02:00	331.0	8.3	319
Poplar	419604	Sep-16-2023	02:00	03:00	325.0	8.4	272
Poplar	419604	Sep-16-2023	03:00	04:00	361.0	9.4	277
Poplar	419604	Sep-16-2023	04:00	05:00	356.6	10.5	276
Poplar	419604	Sep-16-2023	05:00	06:00	375.4	7.4	296
Poplar	419604	Sep-16-2023	06:00	07:00	398.7	8.9	291
Poplar	419604	Sep-16-2023	07:00	08:00	414.7	2.7	256
Poplar	419604	Sep-16-2023	08:00	09:00	413.2	7.7	107
Poplar	419604	Sep-16-2023	09:00	10:00	435.0	6.8	98
Poplar	419604	Sep-16-2023	10:00	11:00	444.4	4.1	138
Poplar	419604	Sep-16-2023	11:00	12:00	354.2	3.6	224
Poplar	419604	Sep-16-2023	12:00	13:00	120.6	13.2	272
Poplar	419604	Sep-16-2023	13:00	14:00	150.9	9.2	257
Poplar	419604	Sep-16-2023	14:00	15:00	159.9	6.5	245
Poplar	419604	Sep-16-2023	15:00	16:00	172.0	6.0	146
Poplar	419604	Sep-16-2023	16:00	17:00	215.0	14.0	139
Poplar	419604	Sep-16-2023	17:00	18:00	195.3	11.0	148
Poplar	419604	Sep-16-2023	18:00	19:00	191.7	8.1	116
Poplar	419604	Sep-16-2023	19:00	20:00	205.3	7.0	114
Poplar	419604	Sep-16-2023	20:00	21:00	215.5	5.0	84
Poplar	419604	Sep-16-2023	21:00	22:00	235.2	1.1	339
Poplar	419604	Sep-16-2023	22:00	23:00	248.4	0.5	341
Poplar	419604	Sep-17-2023	23:00	00:00	221.2	6.9	301
Poplar	419604	Sep-17-2023	00:00	01:00	239.4	9.5	306

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Poplar	419604	Sep-17-2023	01:00	02:00	221.7	9.7	293
Poplar	419604	Sep-17-2023	02:00	03:00	213.7	10.9	292
Poplar	419604	Sep-17-2023	03:00	04:00	187.9	13.8	300
Poplar	419604	Sep-17-2023	04:00	05:00	178.2	14.0	295
Poplar	419604	Sep-17-2023	05:00	06:00	172.3	12.9	299
Poplar	419604	Sep-17-2023	06:00	07:00	216.2	12.6	276
Poplar	419604	Sep-17-2023	07:00	08:00	234.1	14.5	270
Poplar	419604	Sep-17-2023	08:00	09:00	220.5	10.4	271
Poplar	419604	Sep-17-2023	09:00	10:00	212.2	12.6	275
Poplar	419604	Sep-17-2023	10:00	11:00	173.9	15.4	276
Poplar	419604	Sep-17-2023	11:00	12:00	168.2	15.6	251
Poplar	419604	Sep-17-2023	12:00	13:00	168.2	20.4	242
Poplar	419604	Sep-17-2023	13:00	14:00	141.0	17.3	232
Poplar	419604	Sep-17-2023	14:00	15:00	138.5	18.1	241
Poplar	419604	Sep-17-2023	15:00	16:00	134.9	13.5	239
Poplar	419604	Sep-17-2023	16:00	17:00	182.0	11.8	248
Poplar	419604	Sep-17-2023	17:00	18:00	120.8	10.4	228
Poplar	419604	Sep-17-2023	22:00	23:00	81.7	9.0	334
Poplar	419950	Sep-20-2023	12:00	13:00	89.7	10.7	328
Poplar	419950	Sep-20-2023	13:00	14:00	97.5	9.2	353
Poplar	419950	Sep-20-2023	14:00	15:00	114.7	7.8	21
Poplar	419950	Sep-20-2023	15:00	16:00	121.0	4.0	322
Smoky Heights	418874	Sep-02-2023	01:00	02:00	95.9	17.3	244
Smoky Heights	418874	Sep-02-2023	02:00	03:00	149.6	16.5	260
Smoky Heights	418874	Sep-02-2023	03:00	04:00	183.8	12.9	241
Smoky Heights	418874	Sep-02-2023	04:00	05:00	122.6	13.3	249
Smoky Heights	418874	Sep-02-2023	06:00	07:00	90.0	12.6	246
Smoky Heights	418874	Sep-02-2023	11:00	12:00	84.7	23.9	268
Smoky Heights	418874	Sep-02-2023	12:00	13:00	101.9	26.9	264
Smoky Heights	418874	Sep-02-2023	13:00	14:00	109.7	23.6	270
Smoky Heights	418874	Sep-02-2023	14:00	15:00	111.4	24.2	277
Smoky Heights	418874	Sep-02-2023	15:00	16:00	95.3	19.8	282
Smoky Heights	418874	Sep-02-2023	16:00	17:00	83.8	9.9	305
Smoky Heights	418874	Sep-02-2023	17:00	18:00	116.8	5.7	286
Smoky Heights	418874	Sep-02-2023	18:00	19:00	173.3	3.3	260
Smoky Heights	418874	Sep-02-2023	19:00	20:00	113.6	5.8	200
Smoky Heights	418874	Sep-02-2023	21:00	22:00	164.4	9.4	262
Smoky Heights	418874	Sep-03-2023	00:00	01:00	94.1	5.2	256
Smoky Heights	418874	Sep-03-2023	01:00	02:00	91.2	5.5	224
Smoky Heights	418874	Sep-03-2023	02:00	03:00	86.1	7.4	251
Smoky Heights	418874	Sep-03-2023	04:00	05:00	82.7	11.9	249
Smoky Heights	418874	Sep-03-2023	05:00	06:00	164.5	10.5	257
Smoky Heights	418874	Sep-03-2023	06:00	07:00	242.7	12.1	216
Smoky Heights	418874	Sep-03-2023	07:00	08:00	259.0	10.3	229
Smoky Heights	418874	Sep-03-2023	08:00	09:00	218.7	10.9	207
Smoky Heights	418874	Sep-03-2023	09:00	10:00	172.4	15.8	240
Smoky Heights	418874	Sep-03-2023	10:00	11:00	96.8	17.5	269
Smoky Heights	418874	Sep-03-2023	12:00	13:00	112.0	11.3	299
Smoky Heights	418874	Sep-03-2023	13:00	14:00	168.0	7.3	14
Smoky Heights	418874	Sep-03-2023	14:00	15:00	171.8	7.7	14
Smoky Heights	418874	Sep-03-2023	15:00	16:00	150.6	7.8	24
Smoky Heights	418874	Sep-03-2023	16:00	17:00	113.6	3.5	27

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Smoky Heights	419602	Sep-11-2023	16:00	17:00	155.3	8.2	258
Smoky Heights	419602	Sep-15-2023	19:00	20:00	113.0	8.4	270
Smoky Heights	419602	Sep-15-2023	20:00	21:00	96.6	8.5	272
Smoky Heights	419602	Sep-15-2023	22:00	23:00	118.5	4.6	280
Smoky Heights	419602	Sep-16-2023	23:00	00:00	130.1	2.0	235
Smoky Heights	419602	Sep-16-2023	00:00	01:00	122.1	7.1	246
Smoky Heights	419602	Sep-16-2023	01:00	02:00	129.0	6.8	246
Smoky Heights	419602	Sep-16-2023	02:00	03:00	159.4	6.4	251
Smoky Heights	419602	Sep-16-2023	03:00	04:00	175.1	8.4	233
Smoky Heights	419602	Sep-16-2023	04:00	05:00	165.9	8.6	248
Smoky Heights	419602	Sep-16-2023	05:00	06:00	155.3	11.0	251
Smoky Heights	419602	Sep-16-2023	06:00	07:00	206.4	12.5	224
Smoky Heights	419602	Sep-16-2023	07:00	08:00	245.4	13.5	229
Smoky Heights	419602	Sep-16-2023	08:00	09:00	283.5	9.9	244
Smoky Heights	419602	Sep-16-2023	09:00	10:00	292.4	6.6	175
Smoky Heights	419602	Sep-16-2023	10:00	11:00	208.7	8.2	170
Smoky Heights	419602	Sep-16-2023	11:00	12:00	249.4	6.6	173
Smoky Heights	419602	Sep-16-2023	12:00	13:00	255.0	8.1	158
Smoky Heights	419602	Sep-16-2023	13:00	14:00	204.9	7.1	157
Smoky Heights	419602	Sep-16-2023	14:00	15:00	195.7	8.4	151
Smoky Heights	419602	Sep-16-2023	15:00	16:00	238.0	10.5	144
Smoky Heights	419602	Sep-16-2023	16:00	17:00	233.7	6.7	141
Smoky Heights	419602	Sep-16-2023	17:00	18:00	210.5	2.5	121
Smoky Heights	419602	Sep-16-2023	18:00	19:00	215.1	1.8	114
Smoky Heights	419602	Sep-16-2023	19:00	20:00	223.3	4.1	28
Smoky Heights	419602	Sep-16-2023	20:00	21:00	216.9	5.1	10
Smoky Heights	419602	Sep-16-2023	21:00	22:00	215.1	5.3	13
Smoky Heights	419602	Sep-16-2023	22:00	23:00	225.1	6.1	16
Smoky Heights	419602	Sep-17-2023	23:00	00:00	218.0	5.0	37
Smoky Heights	419602	Sep-17-2023	00:00	01:00	194.5	0.8	330
Smoky Heights	419602	Sep-17-2023	01:00	02:00	181.6	10.7	262
Smoky Heights	419602	Sep-17-2023	02:00	03:00	177.7	5.5	295
Smoky Heights	419602	Sep-17-2023	03:00	04:00	171.0	4.1	209
Smoky Heights	419602	Sep-17-2023	04:00	05:00	193.3	7.7	246
Smoky Heights	419602	Sep-17-2023	05:00	06:00	199.1	7.2	237
Smoky Heights	419602	Sep-17-2023	06:00	07:00	175.0	8.1	193
Smoky Heights	419602	Sep-17-2023	07:00	08:00	149.3	14.2	253
Smoky Heights	419602	Sep-17-2023	08:00	09:00	132.2	19.9	250
Smoky Heights	419602	Sep-17-2023	09:00	10:00	98.8	28.2	264
Smoky Heights	419602	Sep-17-2023	11:00	12:00	84.3	18.4	236
Smoky Heights	419602	Sep-17-2023	12:00	13:00	101.7	20.9	237
Smoky Heights	419602	Sep-17-2023	13:00	14:00	113.8	18.0	219
Smoky Heights	419602	Sep-17-2023	14:00	15:00	97.9	20.2	231
Smoky Heights	419602	Sep-17-2023	15:00	16:00	110.3	16.3	223
Smoky Heights	419602	Sep-17-2023	16:00	17:00	126.8	13.0	192
Smoky Heights	419602	Sep-17-2023	17:00	18:00	136.1	8.6	187
Smoky Heights	419602	Sep-17-2023	18:00	19:00	139.9	7.9	178
Smoky Heights	419602	Sep-17-2023	19:00	20:00	138.5	7.3	167
Smoky Heights	419602	Sep-17-2023	20:00	21:00	138.8	1.2	147
Smoky Heights	419602	Sep-17-2023	21:00	22:00	135.7	2.3	260
Smoky Heights	419602	Sep-17-2023	22:00	23:00	128.0	3.8	242
Smoky Heights	419951	Sep-18-2023	23:00	00:00	122.7	6.8	261

Site	Reference Number	Date	From MST	To MST	Average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Smoky Heights	419951	Sep-18-2023	00:00	01:00	97.4	9.7	271
Smoky Heights	419951	Sep-20-2023	11:00	12:00	91.6	5.9	352
Smoky Heights	419951	Sep-20-2023	12:00	13:00	91.5	4.8	17

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

Site	Reference Number	Date	Day average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Beaverlodge	418872	Sep 01, 2023	34.0	18.7	248
Beaverlodge	418872	Sep 02, 2023	64.5	17.0	273
Beaverlodge	418872	Sep 03, 2023	185.9	11.7	318
Beaverlodge	419196	Sep 05, 2023	38.3	4.6	190
Beaverlodge	419196	Sep 06, 2023	41.2	7.8	235
Beaverlodge	419625	Sep 11, 2023	50.0	8.0	267
Beaverlodge	419625	Sep 12, 2023	36.0	6.3	250
Dunes	418873	Sep 03, 2023	108.6	5.0	313
Dunes	419609	Sep 11, 2023	33.4	1.8	244
Dunes	419609	Sep 14, 2023	39.0	3.0	228
Dunes	419609	Sep 16, 2023	127.6	1.8	179
Dunes	419609	Sep 17, 2023	136.4	3.1	219
Dunes	419948	Sep 20, 2023	45.7	2.9	239
Henry Pirker	418872	Sep 01, 2023	30.4	13.3	239
Henry Pirker	418872	Sep 02, 2023	59.6	12.8	269
Henry Pirker	418872	Sep 03, 2023	158.4	8.7	295
Henry Pirker	419195	Sep 04, 2023	32.7	4.2	152
Henry Pirker	419195	Sep 05, 2023	30.3	4.7	149
Henry Pirker	419195	Sep 06, 2023	38.8	5.2	237
Henry Pirker	419608	Sep 11, 2023	46.5	3.7	261
Henry Pirker	419608	Sep 12, 2023	34.1	4.3	220
Henry Pirker	419608	Sep 13, 2023	31.4	14.5	246
Henry Pirker	419608	Sep 14, 2023	62.6	4.8	211
Henry Pirker	419608	Sep 15, 2023	29.7	3.7	167
Henry Pirker	419608	Sep 16, 2023	285.1	3.4	123
Henry Pirker	419608	Sep 17, 2023	199.0	5.5	229
Henry Pirker	419949	Sep 20, 2023	77.0	4.7	229
Henry Pirker	420271	Sep 29, 2023	44.4	2.3	81
Milner	418875	Sep-01-2023	32.1	10.6	236
Milner	418875	Sep-02-2023	54.1	16.5	242
Milner	418875	Sep-03-2023	150.9	5.3	228
Milner	419194	Sep-04-2023	62.9	3.3	64
Milner	419194	Sep-05-2023	50.8	3.2	247
Milner	419607	Sep-16-2023	73.7	2.8	236
Milner	419607	Sep-17-2023	67.1	5.0	241
Poplar	418877	Sep-02-2023	50.7	18.8	280
Poplar	418877	Sep-03-2023	87.3	14.3	311

Site	Reference Number	Date	Day average ($\mu\text{g}/\text{m}^3$)	WS km/hr	WD degrees
Poplar	419604	Sep-11-2023	44.8	11.1	279
Poplar	419604	Sep-12-2023	34.9	10.0	273
Poplar	419604	Sep-14-2023	31.0	9.8	272
Poplar	419604	Sep-15-2023	46.0	7.9	248
Poplar	419604	Sep-16-2023	287.7	7.6	255
Poplar	419604	Sep-17-2023	152.4	12.5	266
Poplar	419950	Sep-20-2023	49.3	8.2	296
Smoky Heights	418874	Sep 02, 2023	96.0	15.1	257
Smoky Heights	418874	Sep 03, 2023	112.5	9.4	282
Smoky Heights	419602	Sep 12, 2023	30.8	11.7	232
Smoky Heights	419602	Sep 15, 2023	35.6	8.7	211
Smoky Heights	419602	Sep 16, 2023	210.2	7.4	205
Smoky Heights	419602	Sep 17, 2023	138.5	11.5	236
Smoky Heights	419951	Sep 20, 2023	49.0	5.2	220
Smoky Heights	420270	Sep 29, 2023	34.5	4.5	42

Operational times less than 90 percent:

Poplar CH₄/NMHC are not in operation.

Smoky Heights PM_{2.5} failed and resulted in uptime of 80% (reference # **421125**)

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

Air Incidents

Wildfires resulted in elevated particulate throughout the month.

Deviations from Authorized Monitoring Methods

None were reported.

Passive Monitoring

- 52 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories
- There was one field note recorded that the duplicate for East Prairie was missing when collection occurred
- There were 19 duplicates sampled in the month of September (the 20th duplicate was missing when collection occurred).
- Eight SO₂ duplicates located at Wanham, Eaglesham, Gold Creek, Duvernay 4, Kakwa 4, Milner Bridge, Jayar5 Camp
 - RPD ranging from 0% to 40% (no fail)
- One O₃ duplicate located at East Prairie
 - RPD 42% (no fails)
- Seven NO₂ duplicates at Smoky Heights, Guy, McLennan, East Prairie, Kakwa 3, Milner Powerline, Jayar1 Plant
 - The East Prairie duplicate passive was missing when collected

- RPD ranging from 0% to 34% (no fail)
- Four H₂S duplicates, Girouxville 3, Duvernay 4, Kakwa 1, Jayar2 14-8
 - RPD 0% to 24% (no fail)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- There was one duplicate sampled collected for each in the month of September.
 - RPD ranged from 4% to 13%
- Total dustfall ranged from 26.9 to 107.2 mg/100cm²/30day.
- There were no readings above the AAAQG during the month.

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.

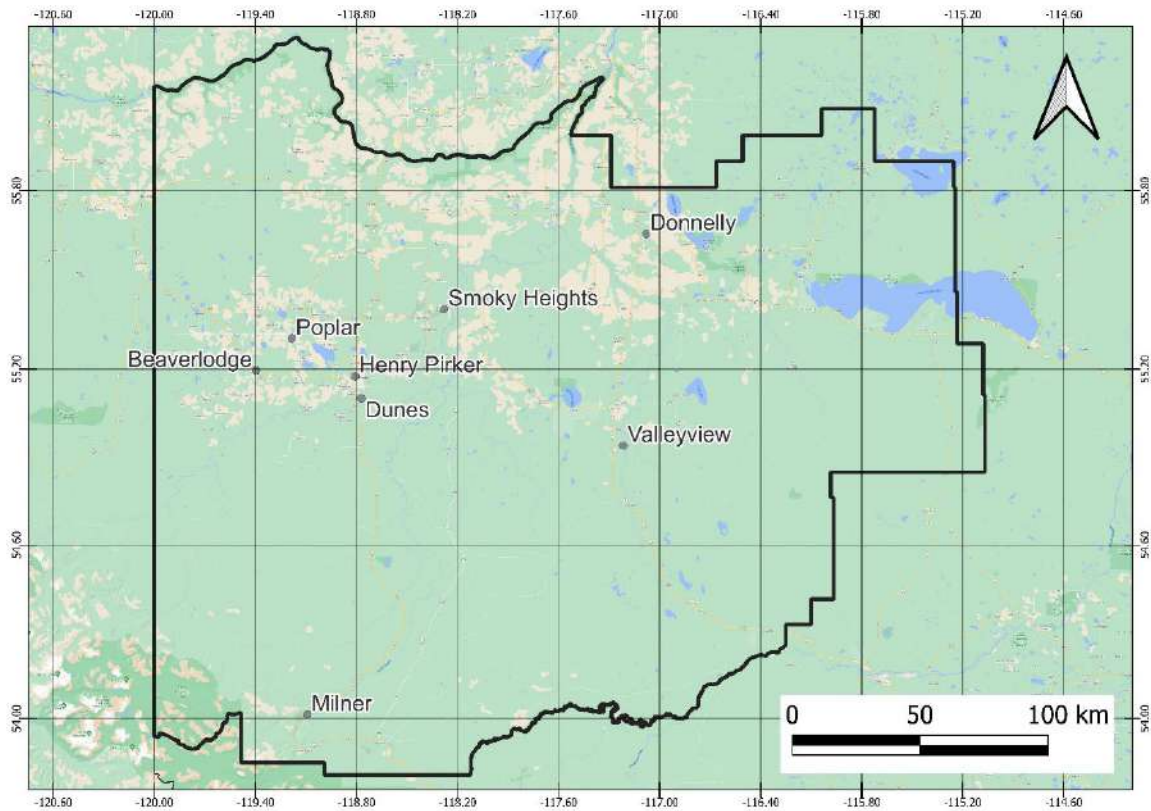


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

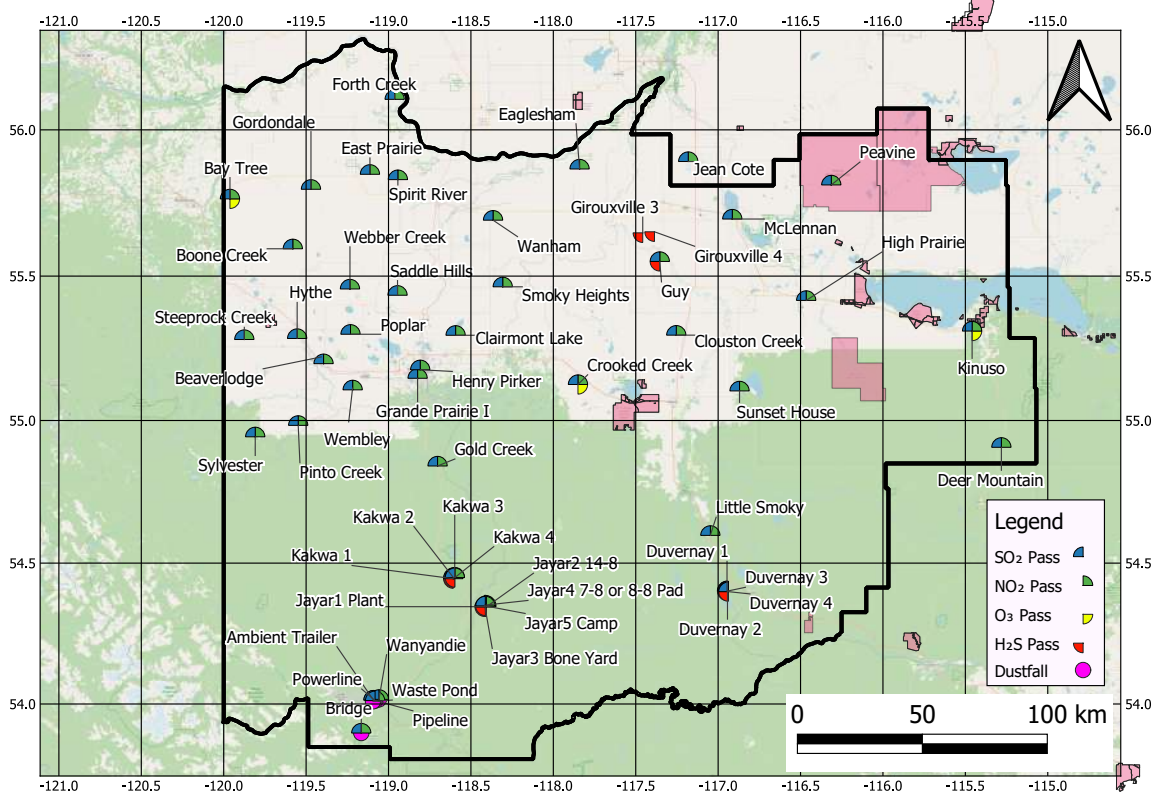
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 September Monthly Station Summaries

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

1.1 Beaverlodge Air Monitoring Station

PAZA - September 2023 Beaverlodge 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)	0.5	0.0	95.1%	100.0%	12.3	-	Sep-05 08:00	1.8	-	Sep-30	-	-	-	-	Sep 06, 2023
NO ₂ (ppb)	3.5	0.3	95.1%	100.0%	15.9	159	Sep-10 06:00	7.7	-	Sep-16	0	-	-	-	Sep 06, 2023
NO _x (ppb)	4.1	0.3	95.1%	100.0%	21.0	-	Sep-15 09:00	9.1	-	Sep-30	-	-	-	-	Sep 06, 2023
O ₃ (ppb)	23.7	1.3	95.3%	100.0%	56.5	76	Sep-15 17:00	38.2	-	Sep-02	0	-	-	-	Sep 06, 2023
PM _{2.5} (µg/m ³)	45.1	0.7	99.9%	100.0%	548.8	80	Sep-16 10:00	344.8	29	Sep-16	84	-	12	-	Sep 05, 2023
SO ₂ (ppb)	0.4	0.0	95.3%	100.0%	5.7	172	Sep-16 21:00	1.0	48	Sep-09	0	-	0	0	Sep 05, 2023
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	11.7	0.1	95.8%	95.8%	26.7										
RH (%)	62.8	10.9	100.0%	100.0%	99.9										
WS (km/hr)	8.9	0.2	100.0%	100.0%	43.4										
WD (deg)	254	0.6	100.0%	100.0%	359.1										
<p>Note: Valid hours must be greater than 75% Operational hours must be greater than 90%</p> <p>Average Wind Direction: 254 WSW</p>															

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No Operational issues noted
O ₃	Thermo	49iQ	No Operational issues noted
PM _{2.5}	API	T640	No Operational issues noted; 84hrs above AAAQG + 12days above AAAQO due to wildfires
SO ₂	Thermo	43i-TLE	No Operational issues noted
Met Equip	MetOne	50.5	ET had daily drops (30hrs removed)

1.2 Dunes Air Monitoring Station

PAZA - September 2023 Dunes 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	
PM _{2.5} (µg/m ³)	26.4	0.0	99.7%	100.0%	230.7	80	Sep-03 06:00	136.4	29	Sep-17	77	-	6	-	Sep-25-2023
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	13.9	172	Sep-10 12:00	1.4	48	Sep-20	0	-	0	0	Sep-25-2023
TRS (ppb)	0.3	0.0	90.3%	94.9%	3.9	-	Sep-30 06:00	0.7	-	Sep-30	-	-	-	-	Sep-25-2023
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	10.9	-1.7	100.0%	100.0%	28.2										
RH (%)	69.1	18.7	100.0%	100.0%	99.9										
WS (km/hr)	3.0	0.1	100.0%	100.0%	12.2										
WD (deg)	233	0.2	100.0%	100.0%	359.2										
<p>Note: Valid hours must be greater than 75% Operational hours must be greater than 90%</p> <p>Average Wind Direction: 233 SW</p>															

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No Operational issues noted; 77hrs above AAAQG + 6 days above AAAQO due to wildfires
SO ₂	TECO	43i	No Operational issues noted
TRS	TECO	43C	Sample pump failed on Sept 28, removed data to last good span (33 hrs removed, 4hrs maintenance)
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - September 2023 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)	3.1	0.0	94.6%	99.9%	70.1	-	Sep-15 08:00	10.7	-	Sep-23	-	-	-	-	Sep 06, 2023
NO ₂ (ppb)	7.3	0.9	94.6%	99.9%	31.2	159	Sep-15 21:00	13.8	-	Sep-23	0	-	-	-	Sep 06, 2023
NO _x (ppb)	10.4	1.0	94.6%	99.9%	85.8	-	Sep-15 08:00	24.6	-	Sep-23	-	-	-	-	Sep 06, 2023
O ₃ (ppb)	21.2	0.3	95.3%	99.9%	60.1	76	Sep-15 17:00	39.4	-	Sep-02	0	-	-	-	Sep 06, 2023
PM _{2.5} (µg/m ³)	46.2	0.7	99.7%	100.0%	424.4	80	Sep-16 09:00	285.1	29	Sep-16	100	-	15	-	Sep 07, 2023
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	6.3	172	Sep-01 10:00	1.6	48	Sep-20	0	-	0	0	Sep 07, 2023
H ₂ S (ppb)	0.3	0.0	95.3%	100.0%	2.2	10	Sep-16 10:00	0.5	3	Sep-29	0	-	0	-	Sep 07, 2023
CH ₄ (ppm)	2.1	1.9	95.3%	100.0%	3.6	-	Sep-21 04:00	2.3	-	Sep-16	-	-	-	-	Sep 01, 2023
THC (ppm)	2.1	1.9	95.3%	100.0%	3.6	-	Sep-21 04:00	2.3	-	Sep-16	-	-	-	-	Sep 01, 2023
NMHC (ppm)	0.0	0.0	95.3%	100.0%	0.1	-	Sep-07 08:00	0.0	-	Sep-07	-	-	-	-	Sep 01, 2023
CO (ppm)	0.4	0.1	95.3%	100.0%	1.8	13	Sep-16 09:00	1.1	5	Sep-16	0	0	-	-	Sep 01, 2023
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	12.3	-0.6	99.7%	100.0%	27.2	<div style="border: 1px solid black; padding: 5px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div>									
RH (%)	61.2	18.8	99.7%	100.0%	89.9										
SR (W/m ²)	114.3	0.0	99.7%	100.0%	539.4										
WS (km/hr)	6.0	0.1	99.7%	100.0%	31.4										
WD (deg)	236	0.9	99.7%	100.0%	359.5										
Average Wind Direction		236		SW											

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42IQ	Sept 1 one hour maintenance during calibration of CO
O ₃	TECO	49I	Sept 1 one hour maintenance during calibration of CO
PM _{2.5}	API	T640	No operational issues; 100 hrs above AAAQG + 15 days above AAAQO due to wildfires
SO ₂	TEI	43I-TLE	No operational issues
H ₂ S	TEI	450i	No operational issues
THC/CH ₄ /NMHC	TEI	55i	No operational issues
CO	TEI	48I-TLE	No operational issues
Met Equip	MetOne	50.5	No operational issues

1.4 Smoky Heights Air Monitoring Station

PAZA - September 2023 Smoky Heights 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											
PM _{2.5} (µg/m ³)	38.8	1.2	79.9%	80.0%	292.4	80	Sep-16 10:00	210.2	29	Sep-16	85	-	8	-	Sep 11, 2023										
SO ₂ (ppb)	0.2	0.0	95.3%	100.0%	6.4	172	Sep-23 11:00	0.9	48	Sep-23	0	-	0	0	Sep 11, 2023										
TRS (ppb)	0.3	0.0	95.3%	100.0%	1.9	-	Sep-29 01:00	0.7	-	Sep-29	-	-	-	-	Sep 11, 2023										
	Average	Minimum	Valid	Operational	Maximum																				
Temp (°C)	11.2	-0.5	100.0%	100.0%	26.9	<div style="border: 1px solid black; padding: 5px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div>																			
WS (km/hr)	10.5	0.2	100.0%	100.0%	43.9																				
WD (deg)	236	0.1	100.0%	100.0%	359.1																				
Average Wind Direction		236		WNW																					

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	Analyzer failed Sept 5, spare installed Sept 11 (S/N 7168); 85hrs above AAAQG + 8 days above AAAQO due to wildfires
SO ₂	TECO	43i	No Operational issues noted
TRS	TEI	43I APSAA	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.5 Valleyview Air Monitoring Station

PAZA - September 2023 Valleyview Station Report

Parameter	September				Max	1-hour		24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational		Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
SO ₂ (ppb)	0.1	0.0	95.3%	100.0%	1.0	172	Sep-20 12:00	0.3	48	Sep-25	0	-	0	0	Sep 18, 2023
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.7	10	Sep-29 01:00	0.3	3	Sep-29	0	-	0	-	Sep 18, 2023
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	11.6	-2.2	100.0%	100.0%	30.0	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75% Operational hours must be greater than 90%</p> <p>Average Wind Direction: 212 NW</p> </div>									
RH (%)	73.9	22.0	100.0%	100.0%	100.2										
WS (km/hr)	2.9	0.0	100.0%	100.0%	13.2										
WD (deg)	212	0.9	100.0%	100.0%	359.8										

Update Summary:

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

1.6 Donnelly Air Monitoring Station – Decommissioned for move

1.7 Poplar Air Monitoring Station

PAZA - September 2023 Poplar Station Report

Parameter	September				Max	1-hour		24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid	Operational		Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	1.1	0.0	85.4%	90.4%	19.4	-	Sep-15 09:00	3.3	-	Sep-15	-	-	-	-	Sep 13, 2023
NO ₂ (ppb)	4.4	0.1	85.4%	90.4%	24.3	159	Sep-17 00:00	11.0	-	Sep-16	0	-	-	-	Sep 13, 2023
NO _x (ppb)	5.5	0.2	85.4%	90.4%	35.2	-	Sep-17 00:00	12.4	-	Sep-16	-	-	-	-	Sep 13, 2023
O ₃ (ppb)	23.6	0.7	90.8%	95.3%	60.1	76	Sep-16 17:00	40.8	-	Sep-02	0	-	-	-	Sep 14, 2023
PM _{2.5} (µg/m ³)	37.9	0.7	94.5%	95.0%	444.4	80	Sep-16 11:00	287.7	29	Sep-16	71	-	9	-	Sep 07, 2023
SO ₂ (ppb)	0.8	0.0	90.8%	95.3%	16.8	172	Sep-23 14:00	2.1	48	Sep-23	0	-	0	0	Sep 13, 2023
TRS (ppb)	0.7	0.2	90.8%	95.3%	4.7	-	Sep-06 00:00	1.0	-	Sep-30	-	-	-	-	Sep 12, 2023
CH4 (ppm)	removed Dec 12, 2022														
THC (ppm)	2.2	1.9	90.8%	95.3%	4.0	-	Sep-10 02:00	2.5	-	Sep-16	-	-	-	-	Sep 12, 2023
NMHC (ppm)	removed Dec 12, 2022														
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	11.1	-2.7	95.3%	95.3%	27.0	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75% Operational hours must be greater than 90%</p> <p>Average Wind Direction: 269 W</p> </div>									
WS (km/hr)	11.3	0.2	95.3%	95.3%	46.4										
WD (deg)	269	0.5	95.3%	95.3%	358.9										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs); Analyzer span fail, removal cal passed (29hrs removed, 5hrs maintenance)
O ₃	TEI	49i	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs)
PM _{2.5}	API	T640	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs); negative drift (2hrs); removal cal of TEOM, install cal of T640
SO ₂	TEI	43i	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs)
TRS	TEI	43i	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs)
THC	TEI	55i / 511i-LT	CH4, NMHC not in service; DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs)
Met Equip	MetOne	50.5	DAS failure (Sept 10, 1hr); power failure (Sept 19-20 + 28-29, 33hrs)

1.8 Milner Air Monitoring Station

PAZA - September 2023 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)	0.7	0.0	88.5%	93.2%	22.9	-	Sep-17 10:00	3.0	-	Sep-17	-	-	-	-	Sep 08, 2023	
NO ₂ (ppb)	0.8	0.0	88.5%	93.2%	15.9	159	Sep-17 08:00	5.7	-	Sep-17	0	-	-	-	Sep 08, 2023	
NO _x (ppb)	1.4	0.0	88.5%	93.2%	33.8	-	Sep-17 10:00	8.5	-	Sep-17	-	-	-	-	Sep 08, 2023	
PM _{2.5} (µg/m ³)	23.0	0.4	99.6%	99.7%	297.8	80	Sep-03 07:00	150.9	29	Sep-03	49	-	7	-	Sep 08, 2023	
	Average	Minimum	Valid	Operational	Maximum											
WS (km/hr)	5.4	0.0	99.6%	100.0%	26.4											
WD (deg)	242	2.8	99.6%	100.0%	358.9											
<p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 90%</p>																
Average Wind Direction									242	WSW						

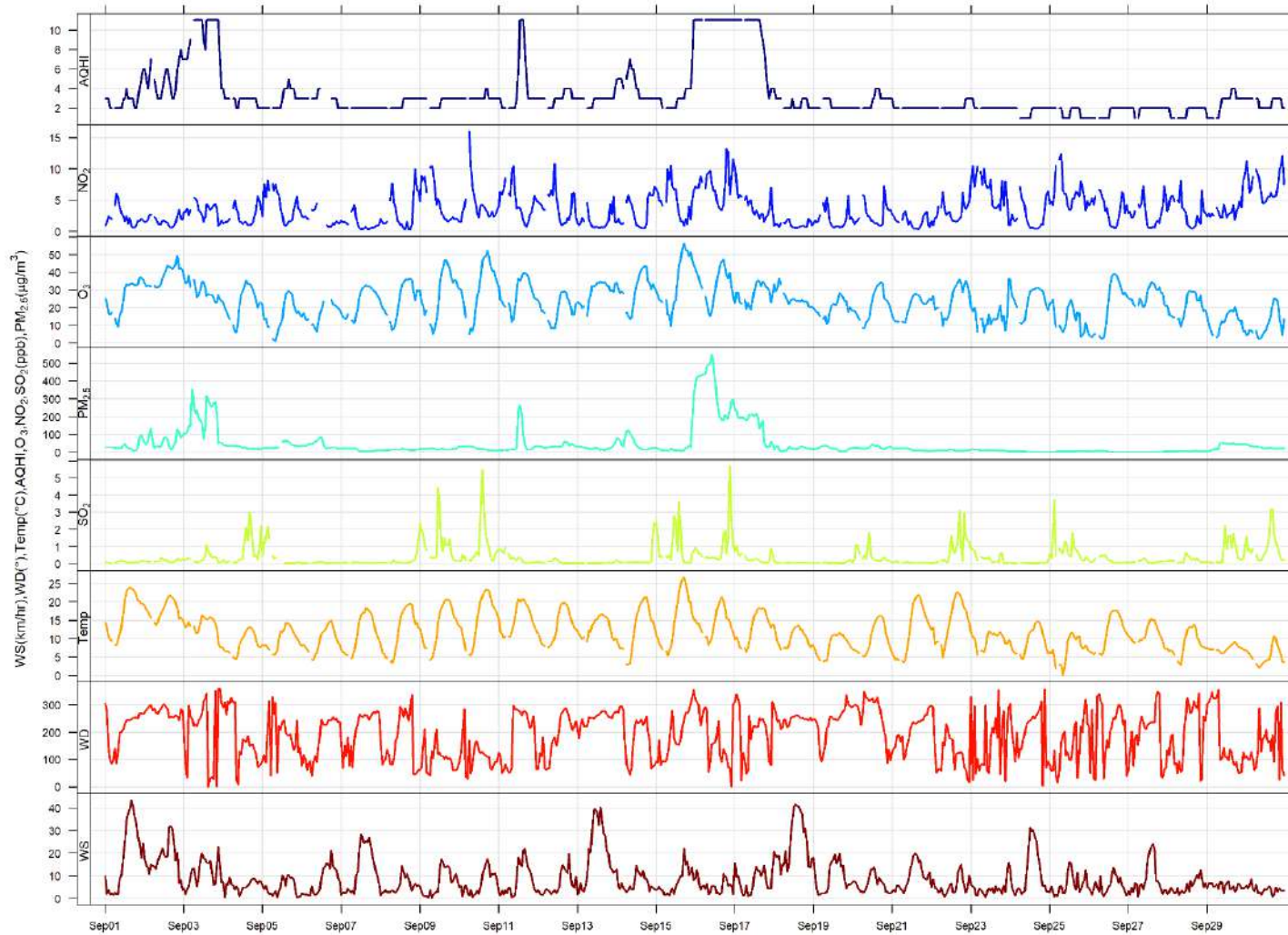
Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Unstable data, excessive negative drift (49hrs)
PM _{2.5}	API	T640	Maintenance at station Sept 8 (2hrs); 49hrs above AAAQG + 7 days above AAAQO
Met Equip	MetOne	50.5	No Operational issues noted

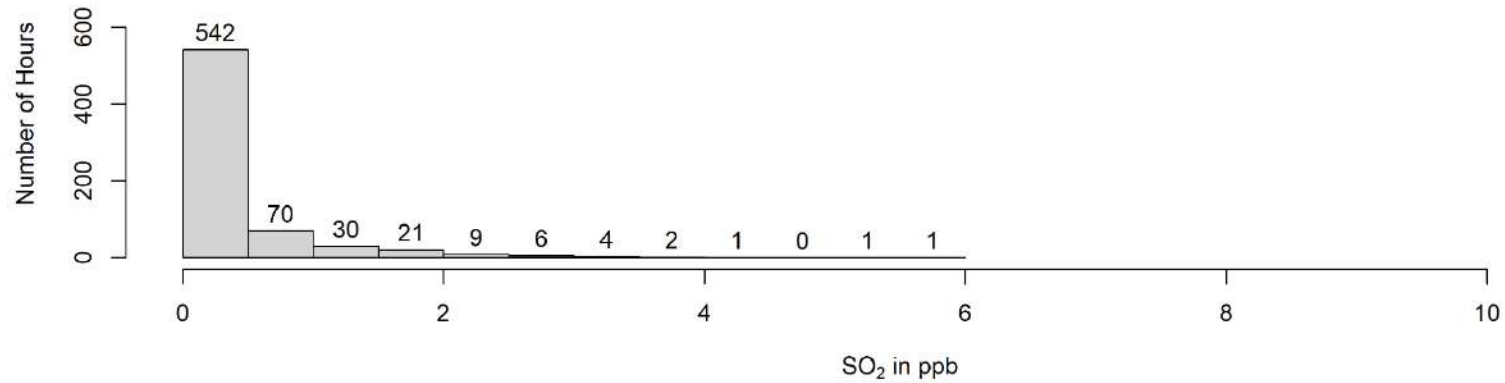
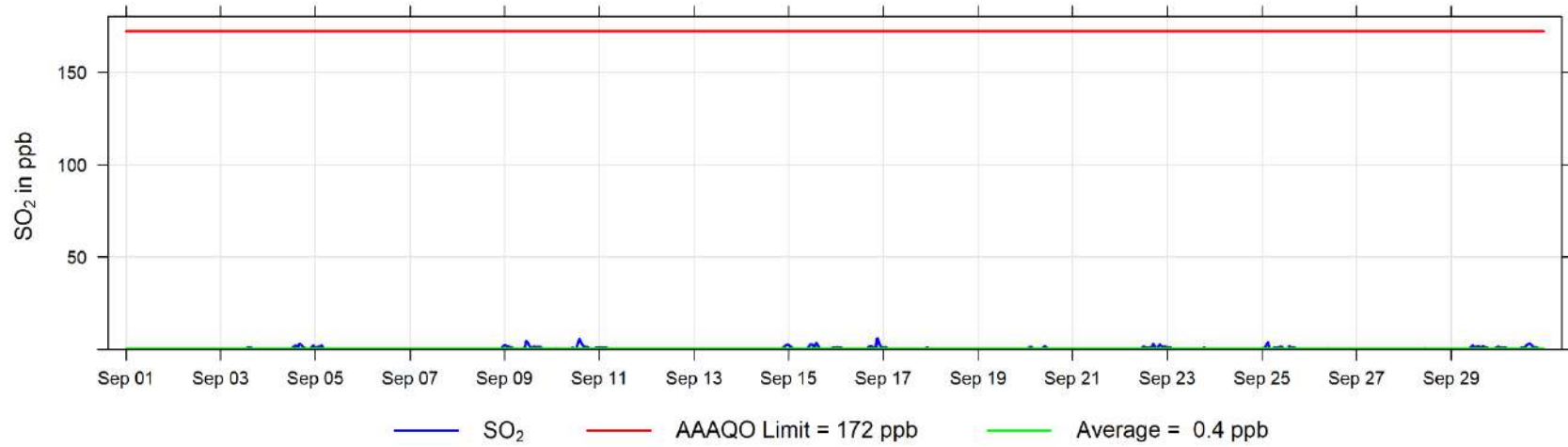
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

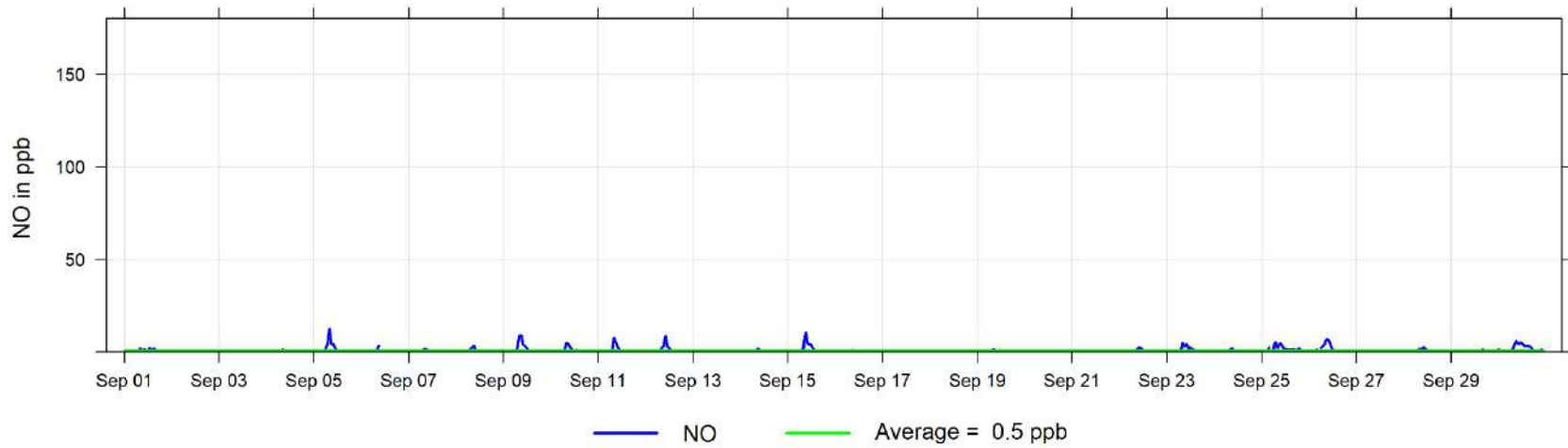
September 2023 Concentration Readings at Beaverlodge Station



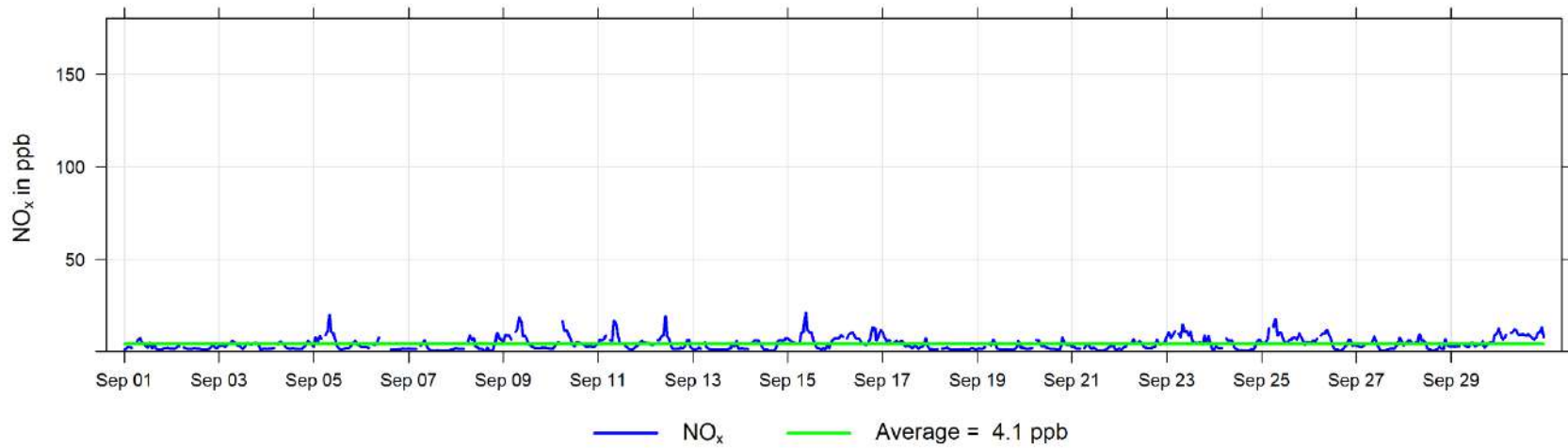
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



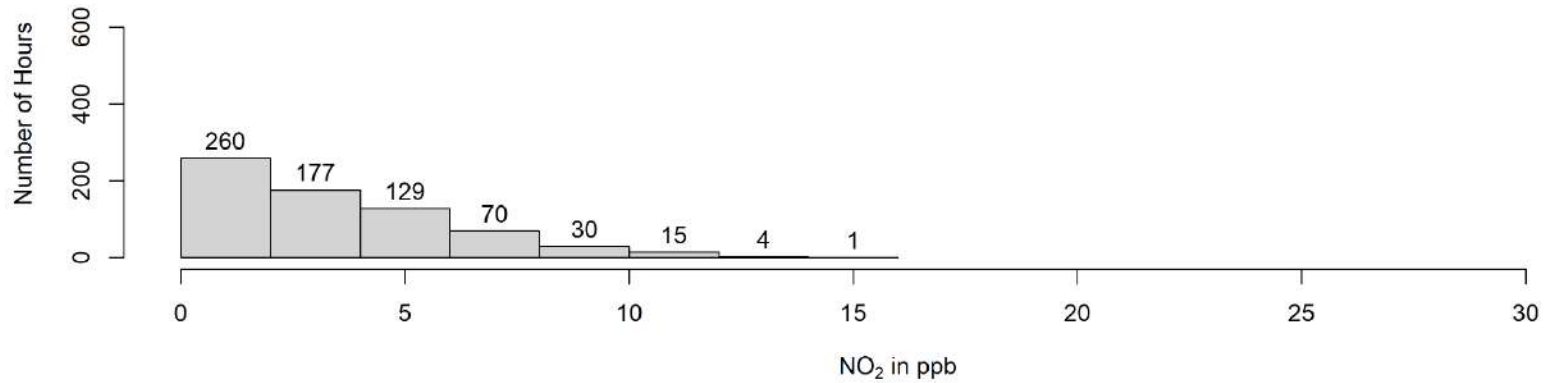
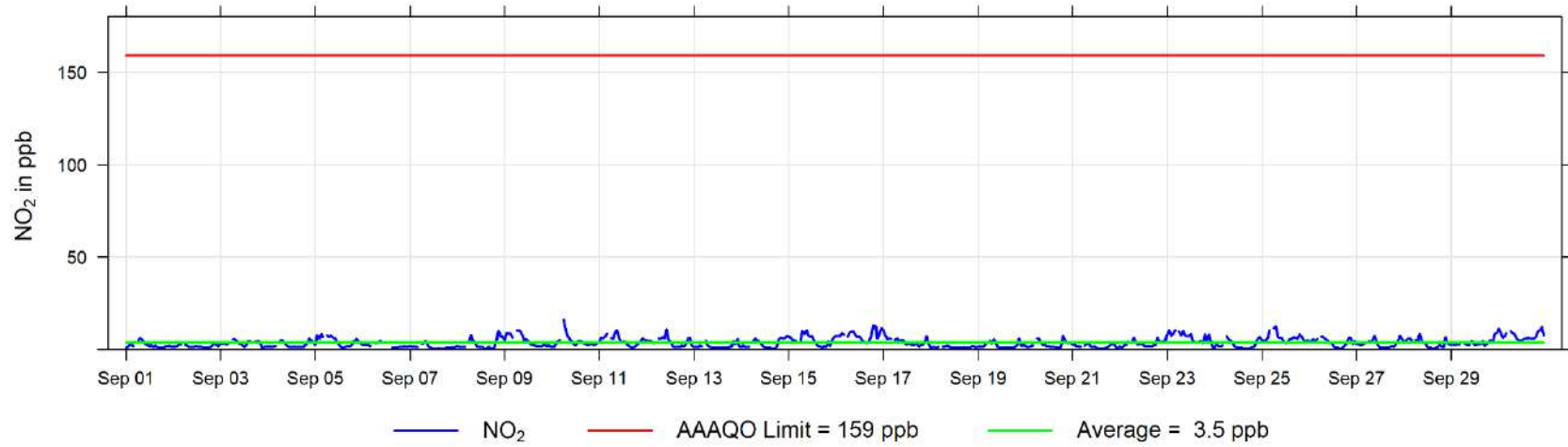
September 2023 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



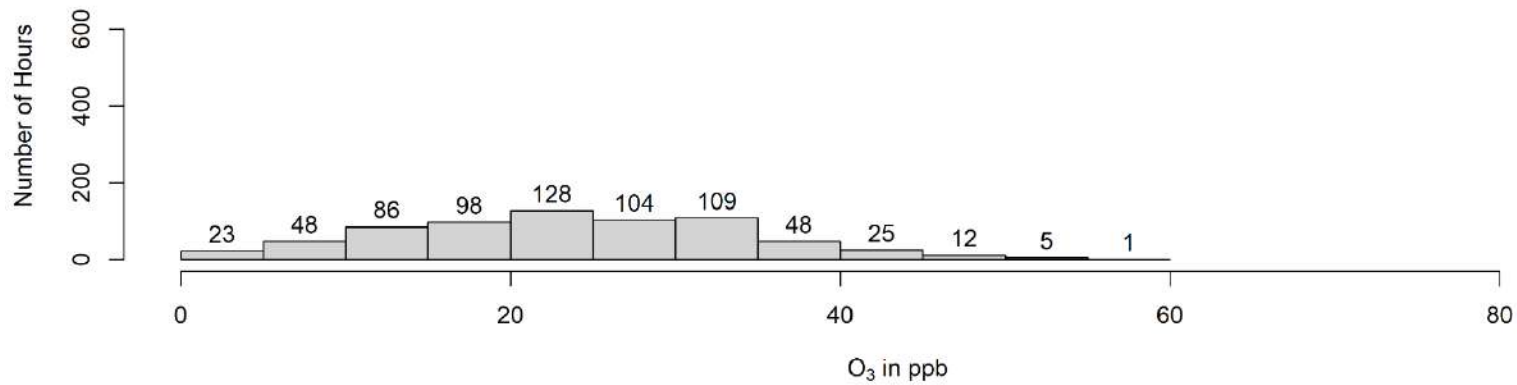
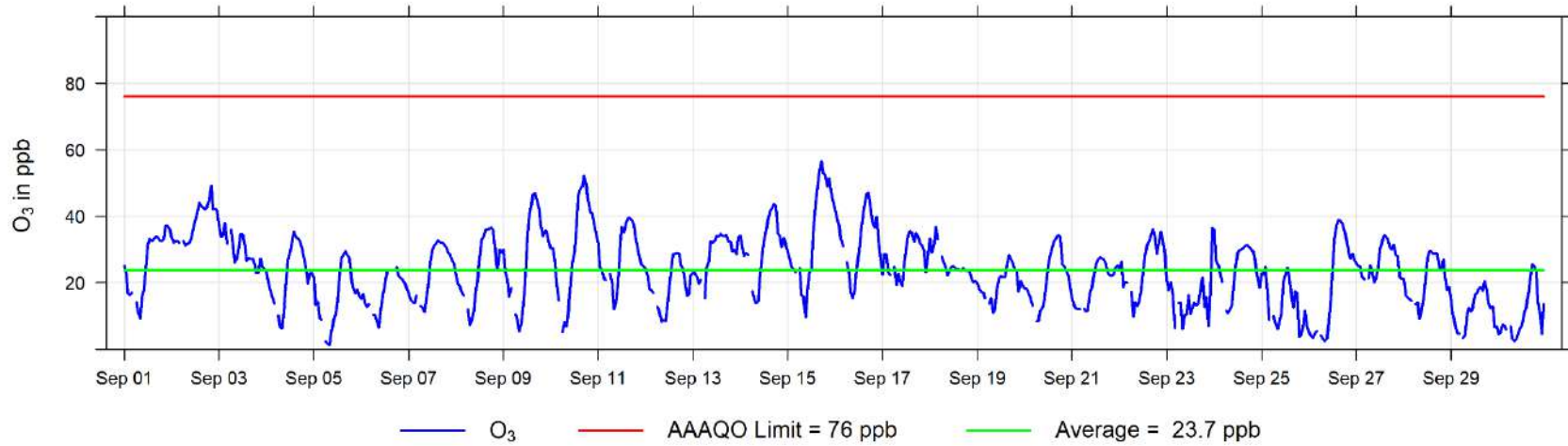
September 2023 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



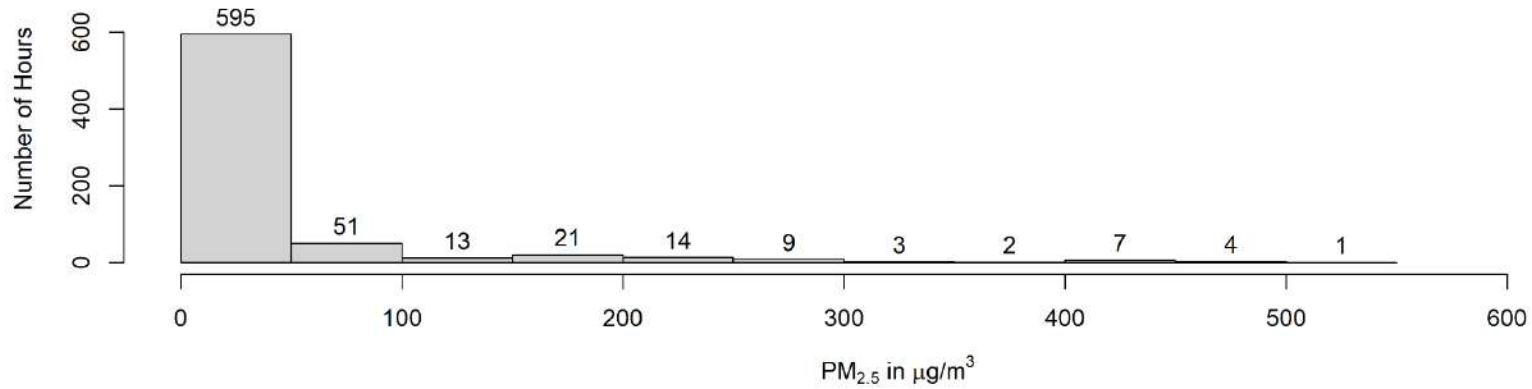
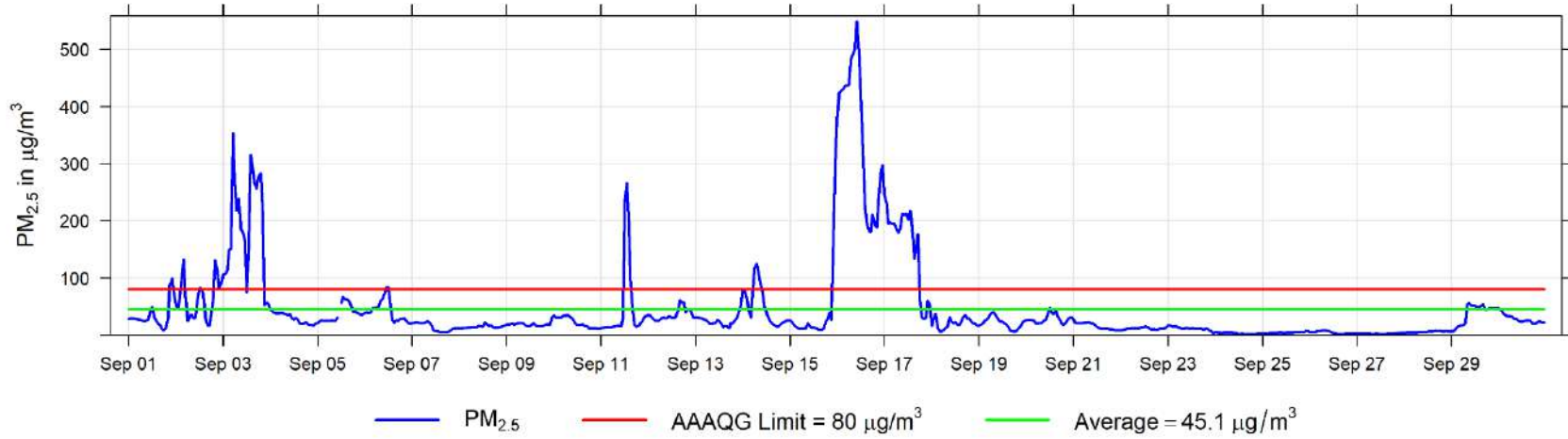
September 2023 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



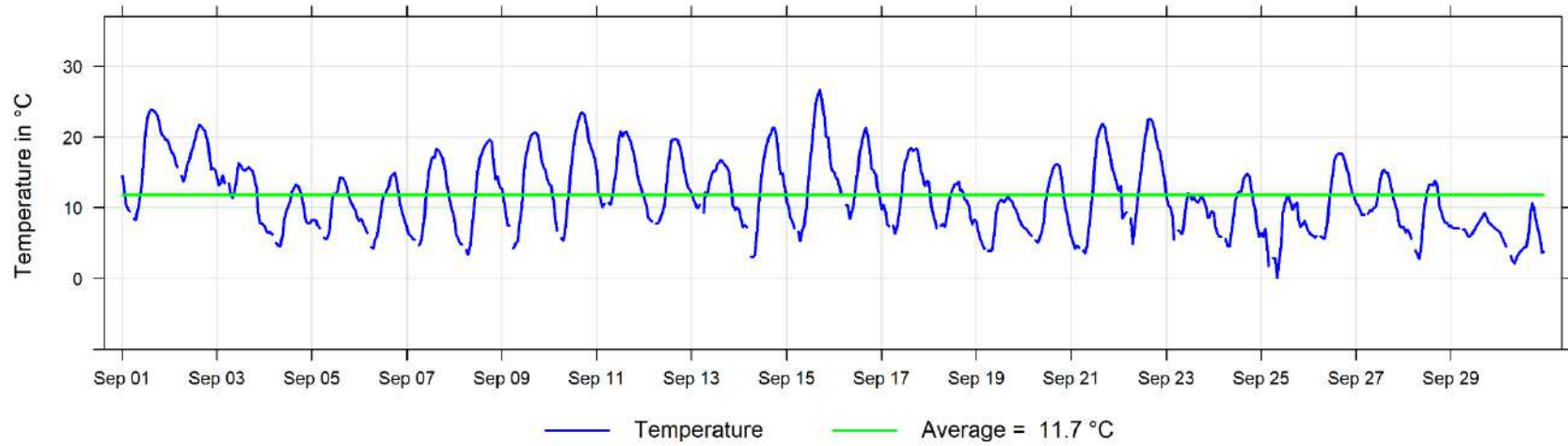
September 2023 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



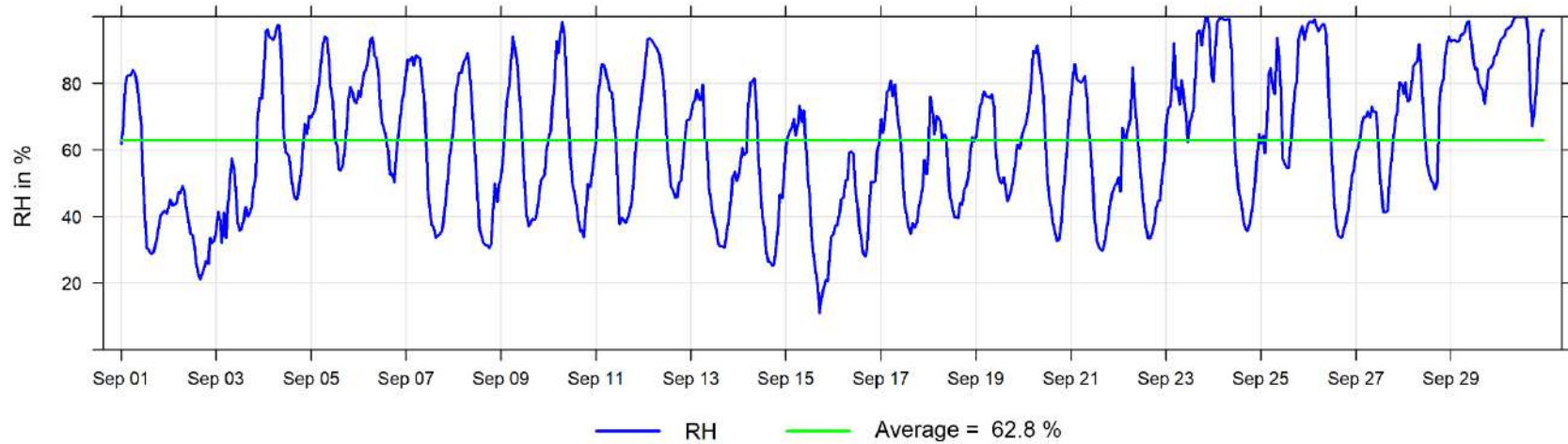
September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



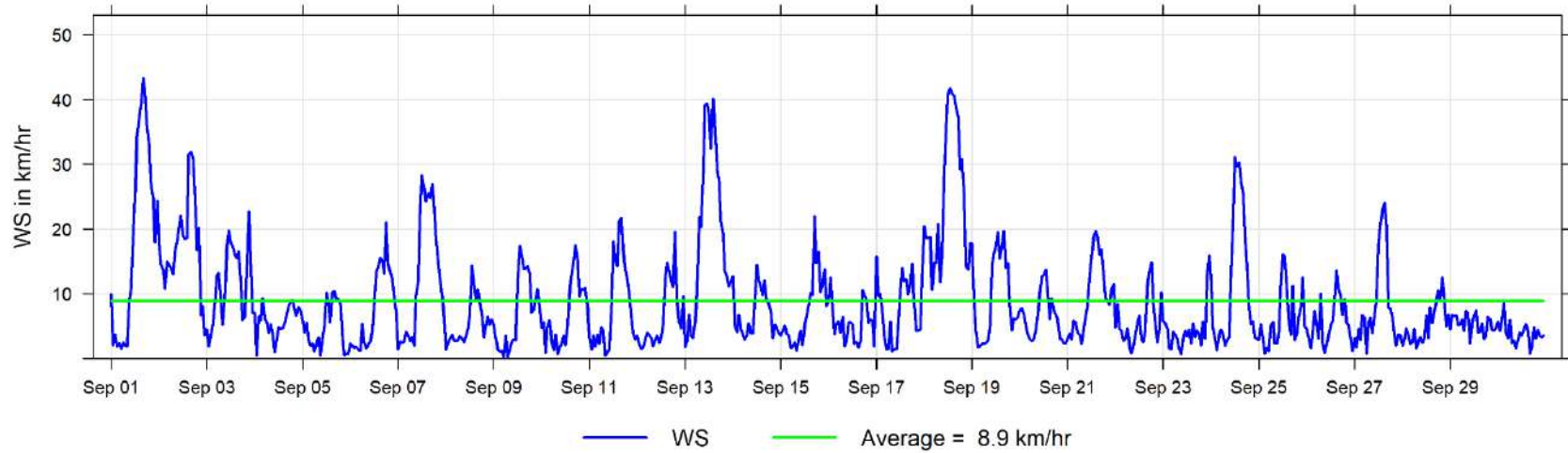
September 2023 Hourly Temperature Readings (in °C) at Beaverlodge



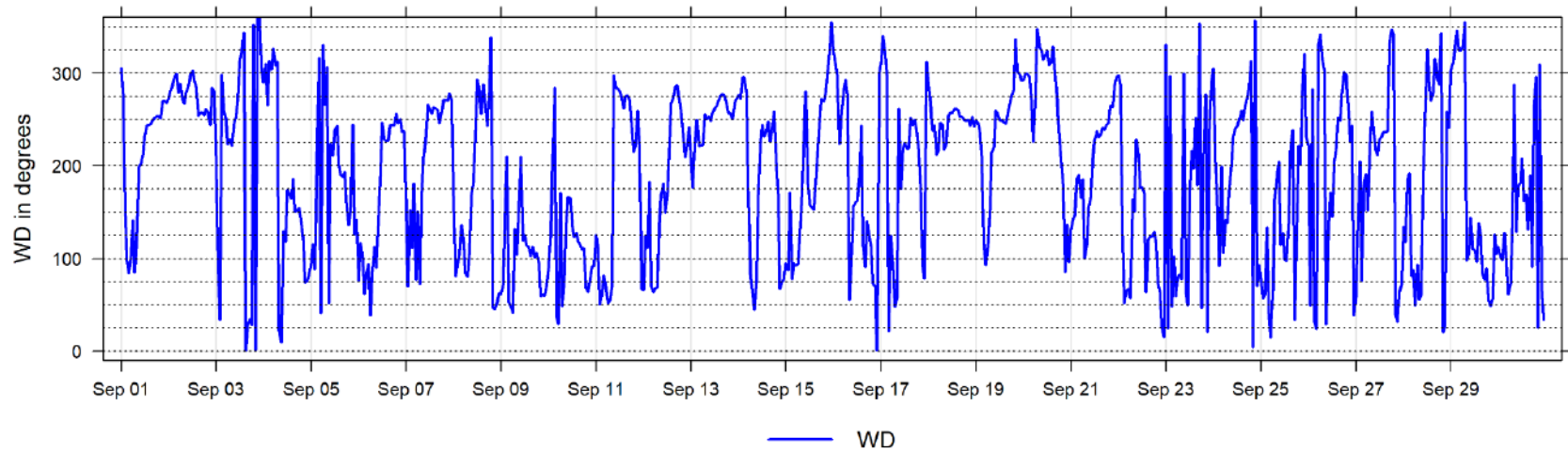
September 2023 Hourly Readings of Relative Humidity (in %) at Beaverlodge



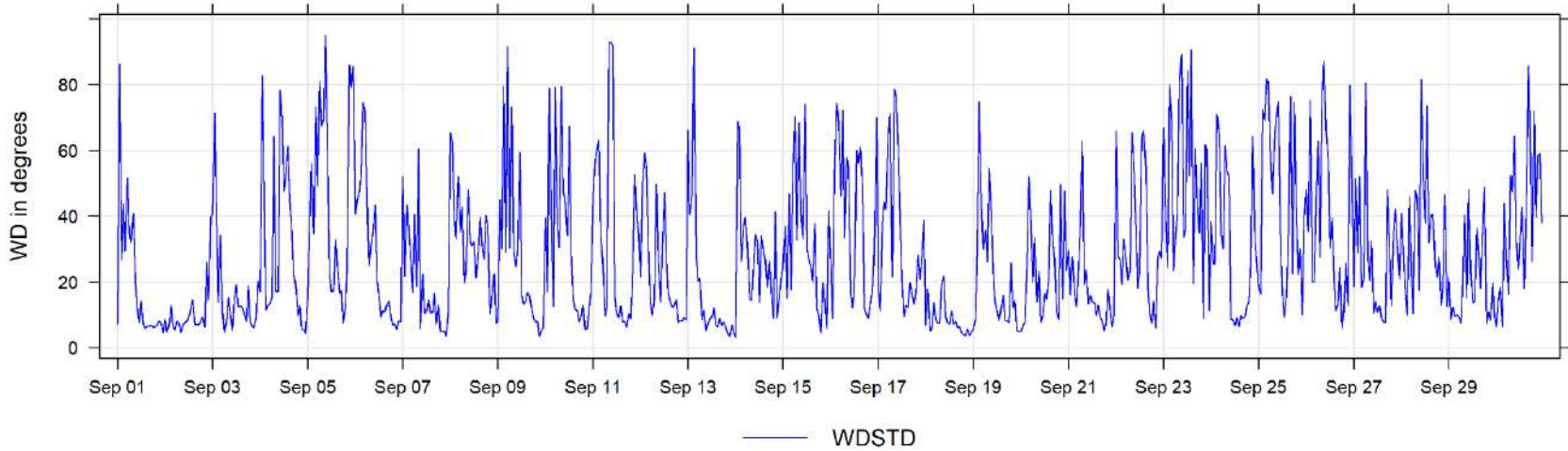
September 2023 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

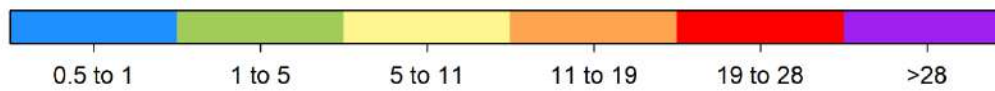
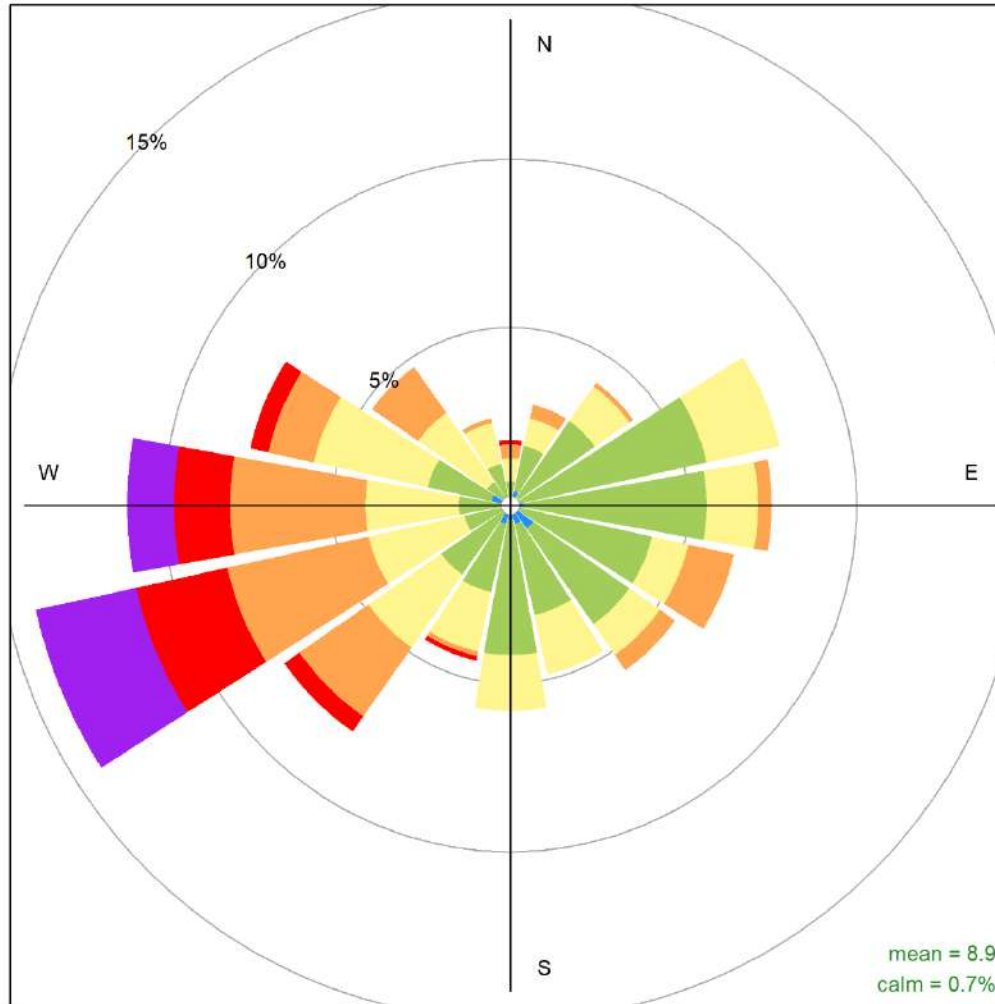


September 2023 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

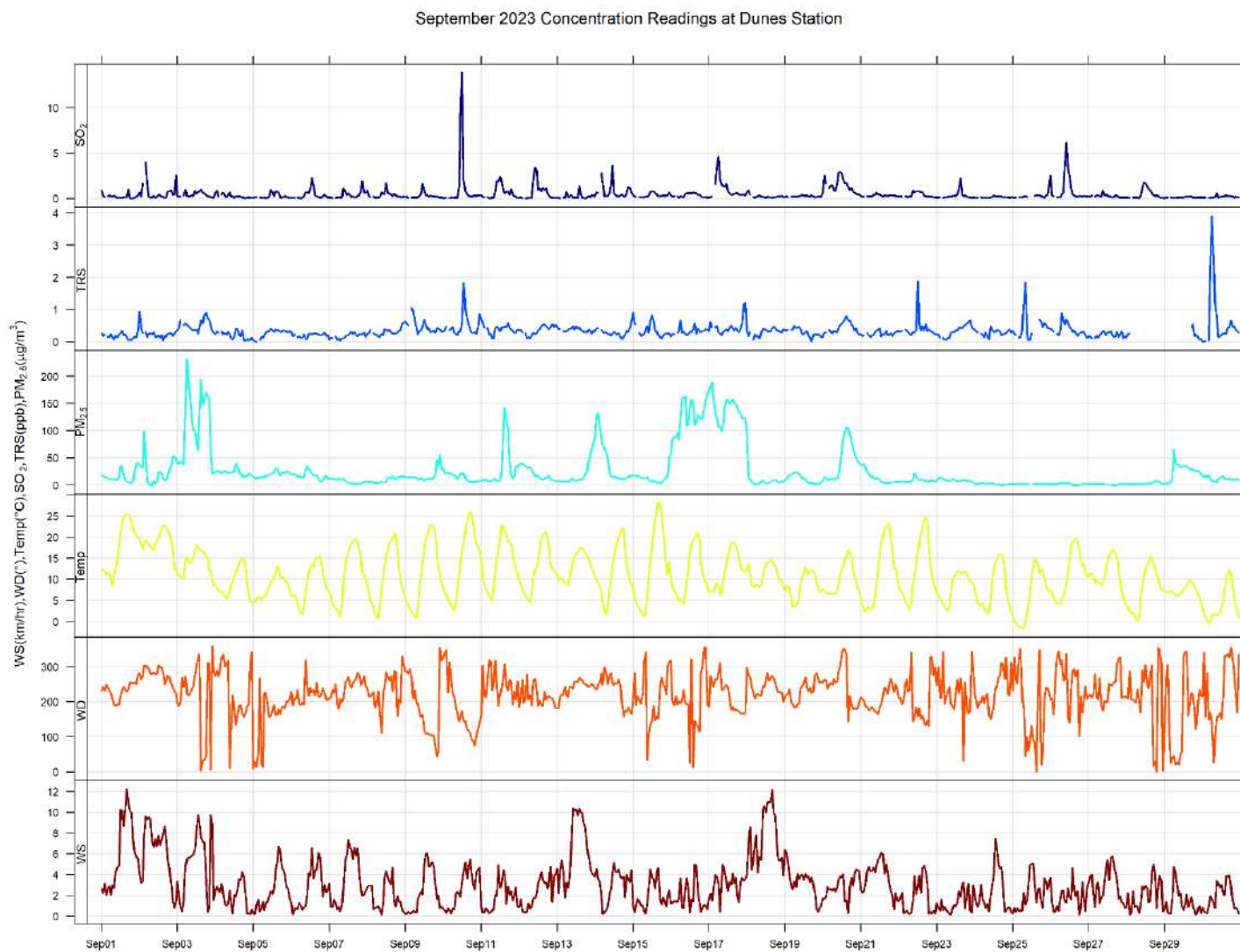




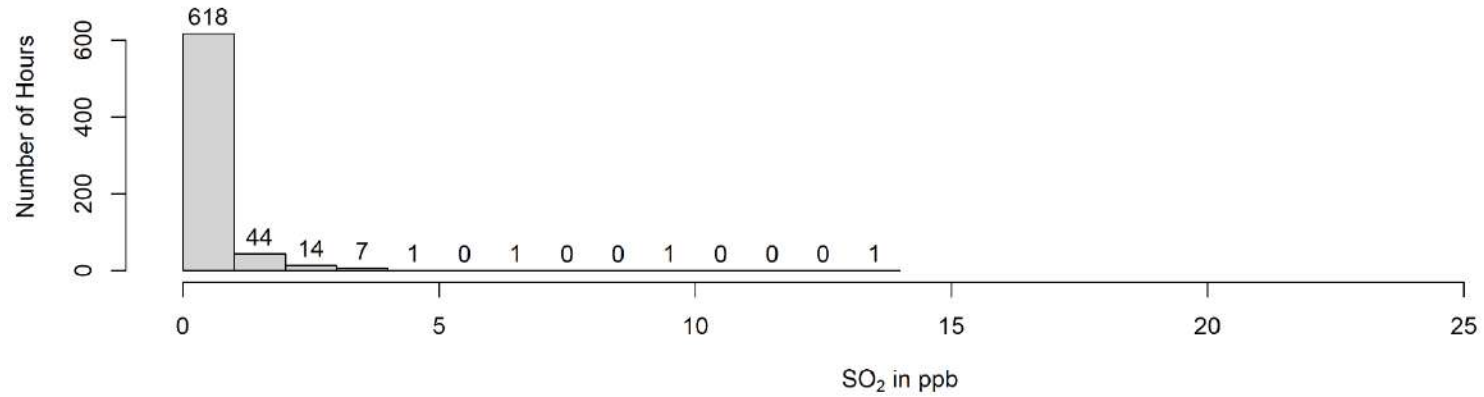
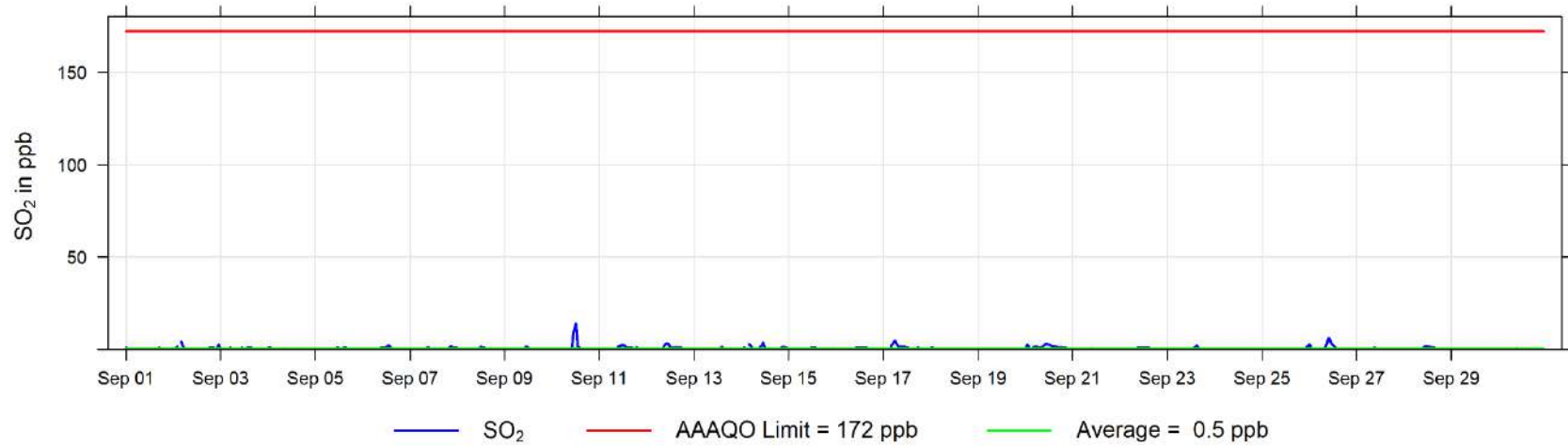
Beaverlodge September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

3 Dunes Charts

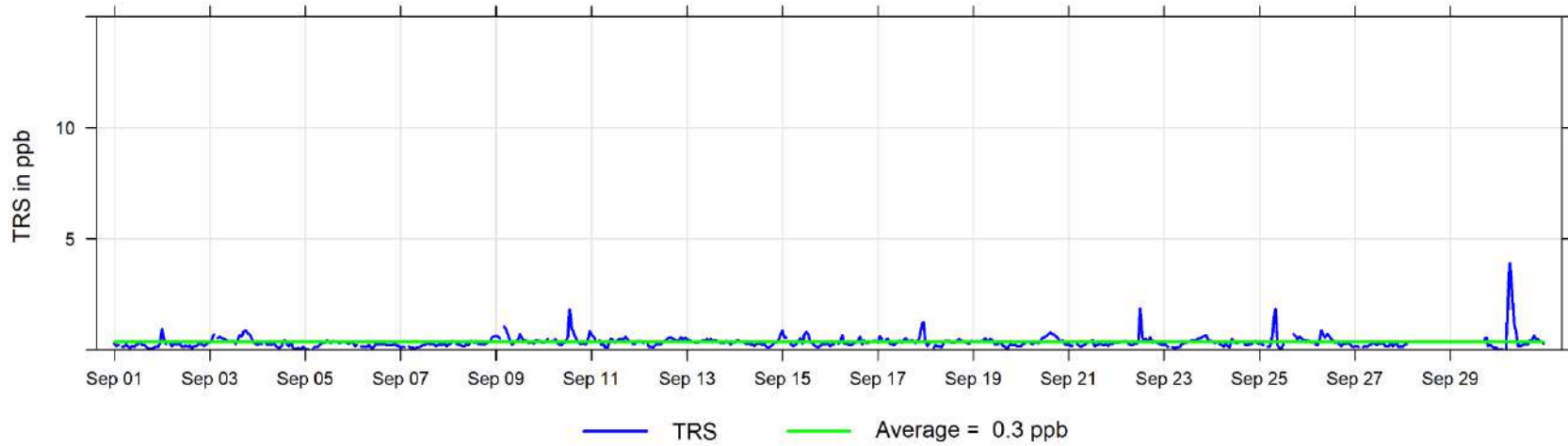
The following pages include the charts and histograms for Dunes Station



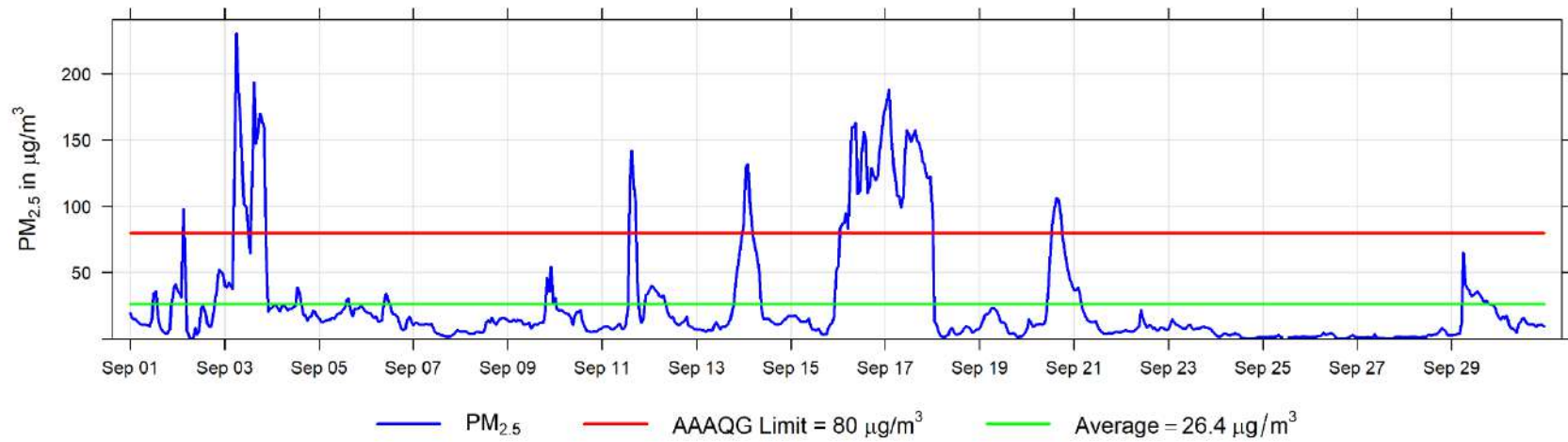
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Dunes

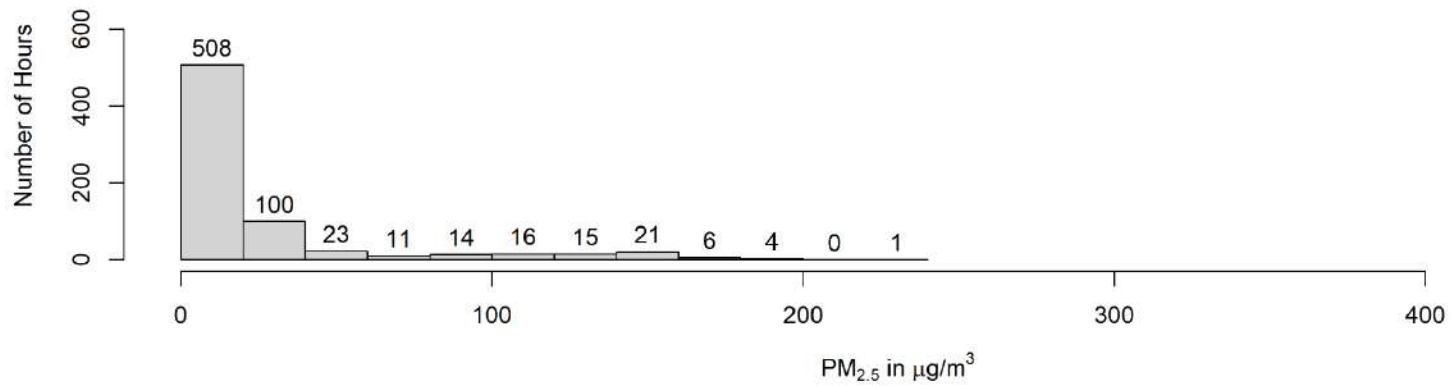


September 2023 Hourly Concentration Readings of TRS (in ppb) at Dunes

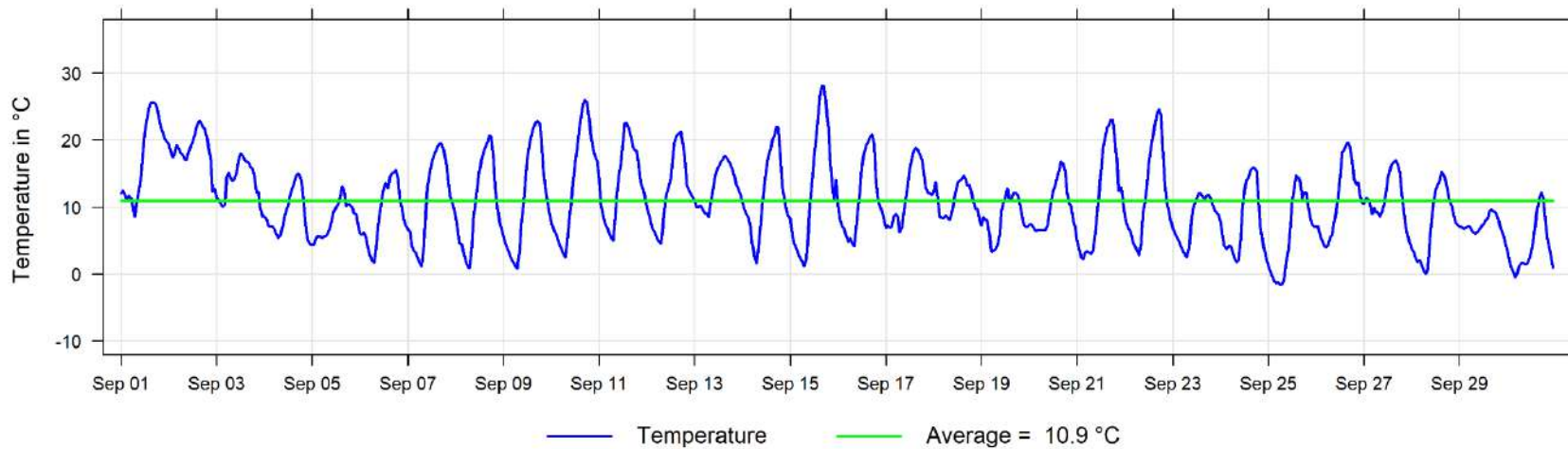


September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes

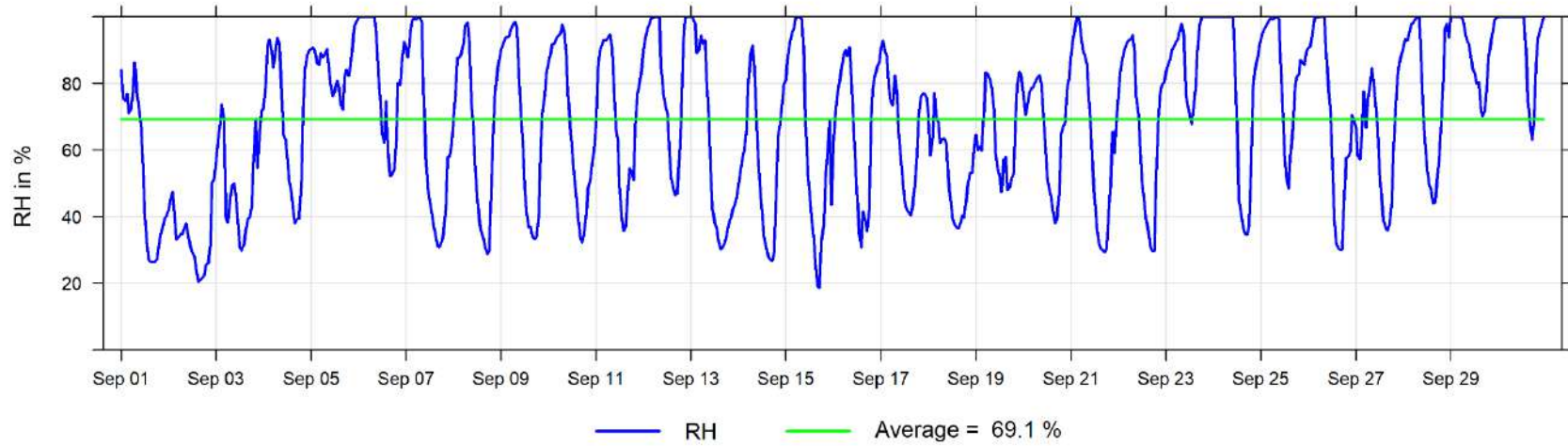




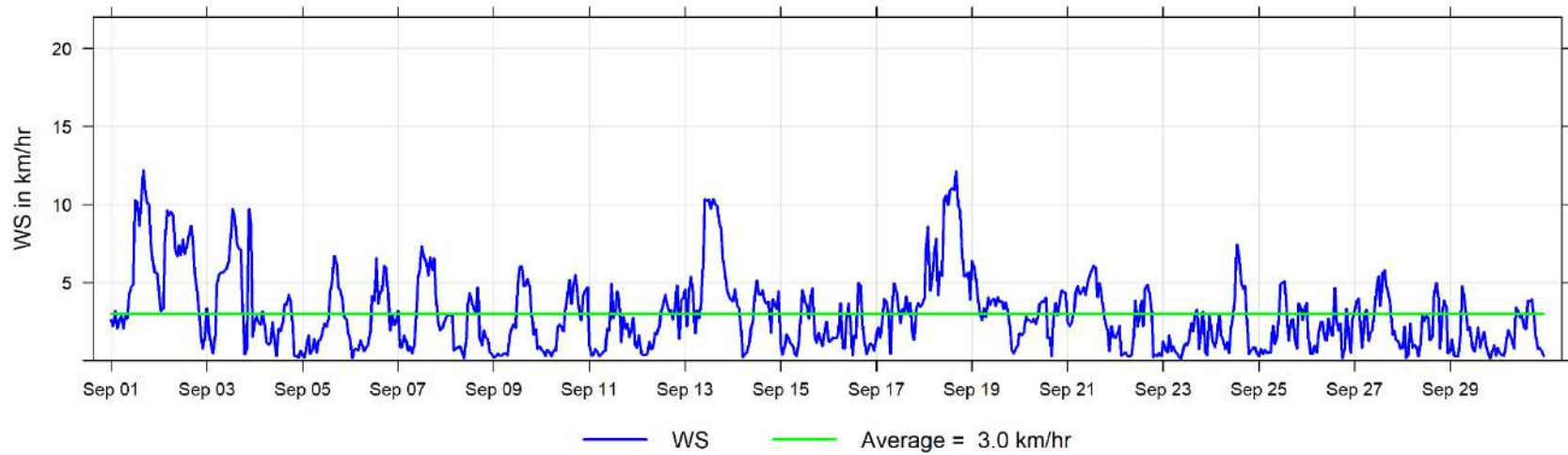
September 2023 Hourly Temperature Readings (in °C) at Dunes



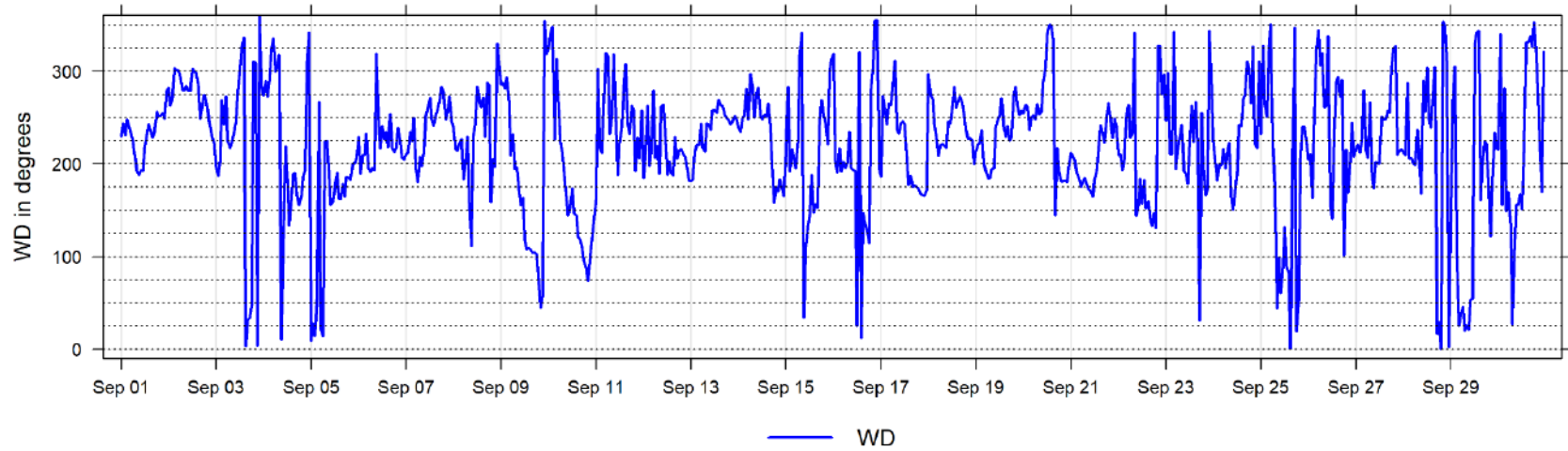
September 2023 Hourly Readings of Relative Humidity (in %) at Dunes



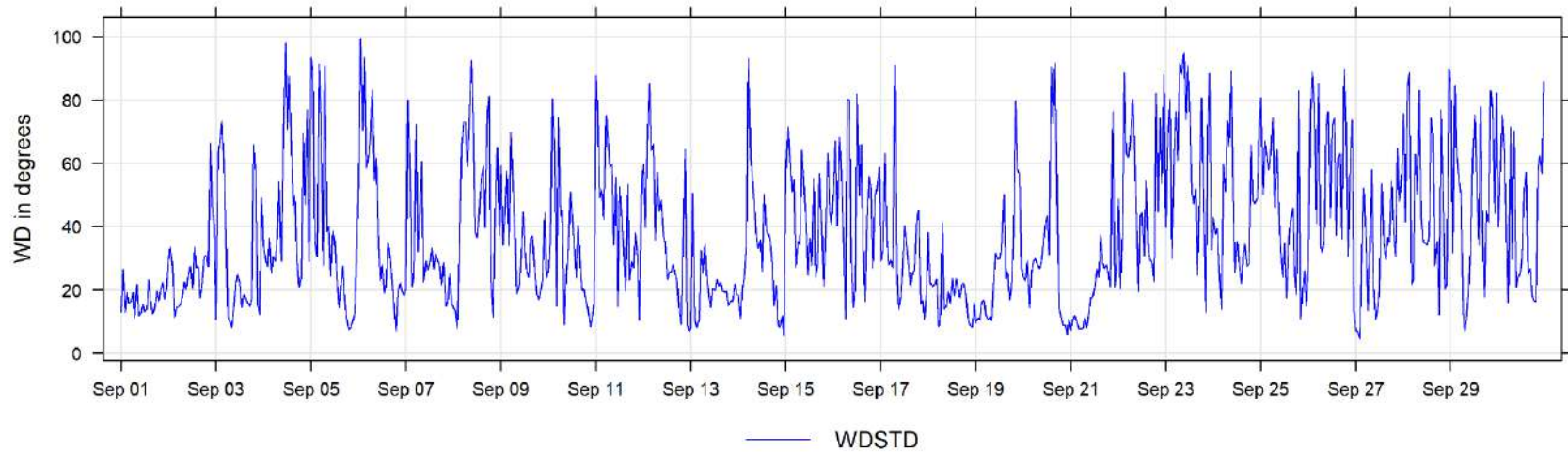
September 2023 Hourly Readings of Wind Speed (in km/hr) at Dunes

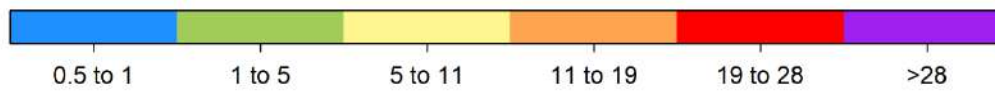
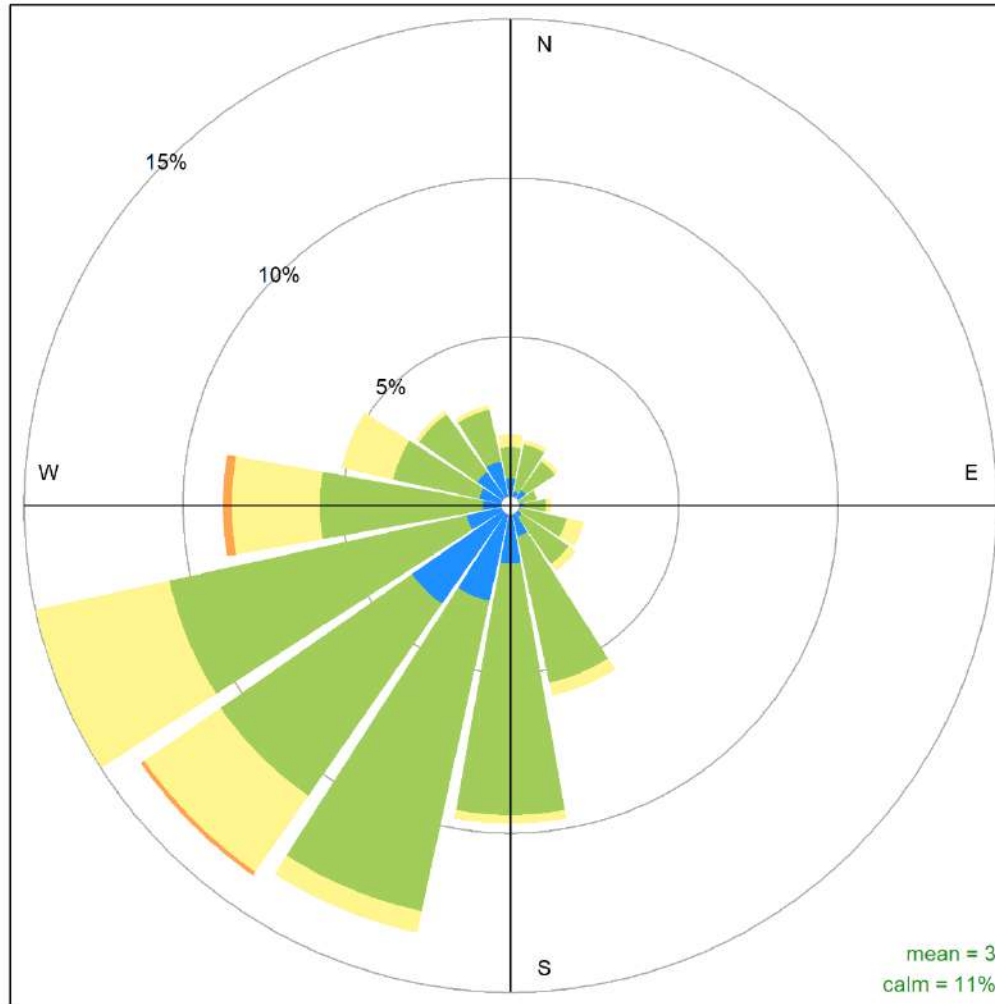


September 2023 Hourly Readings of Wind Direction (in degrees) at Dunes



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes



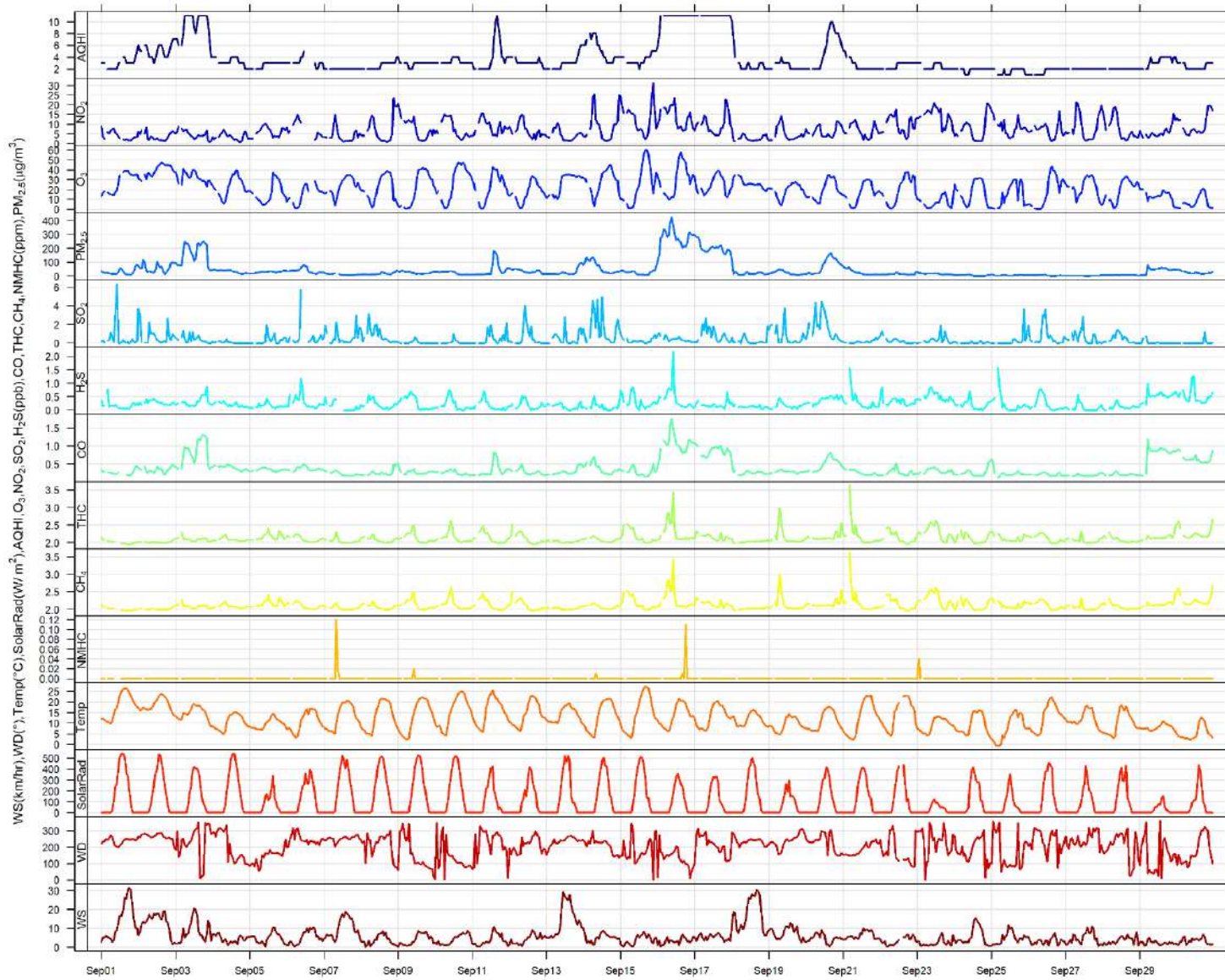


Dunes September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

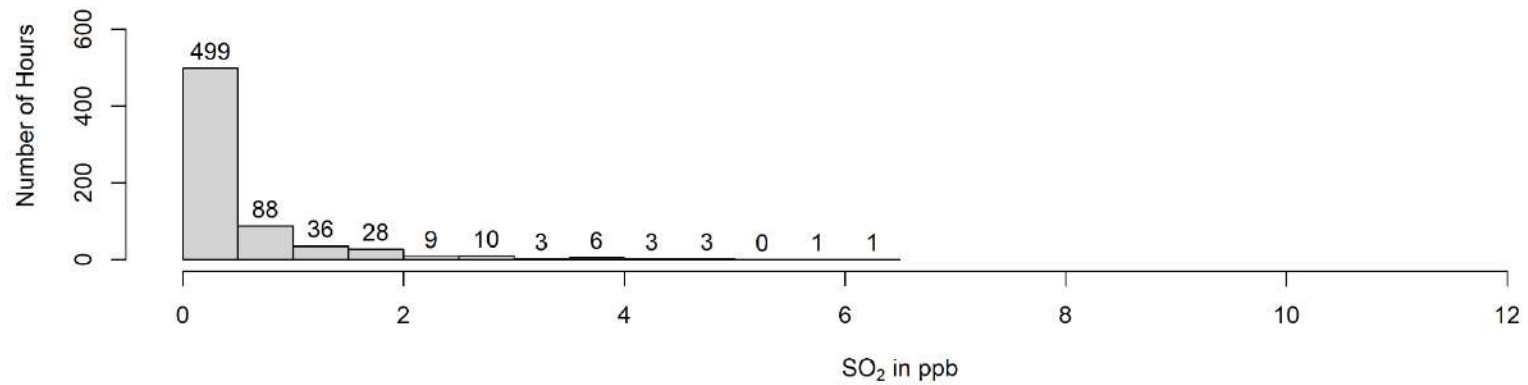
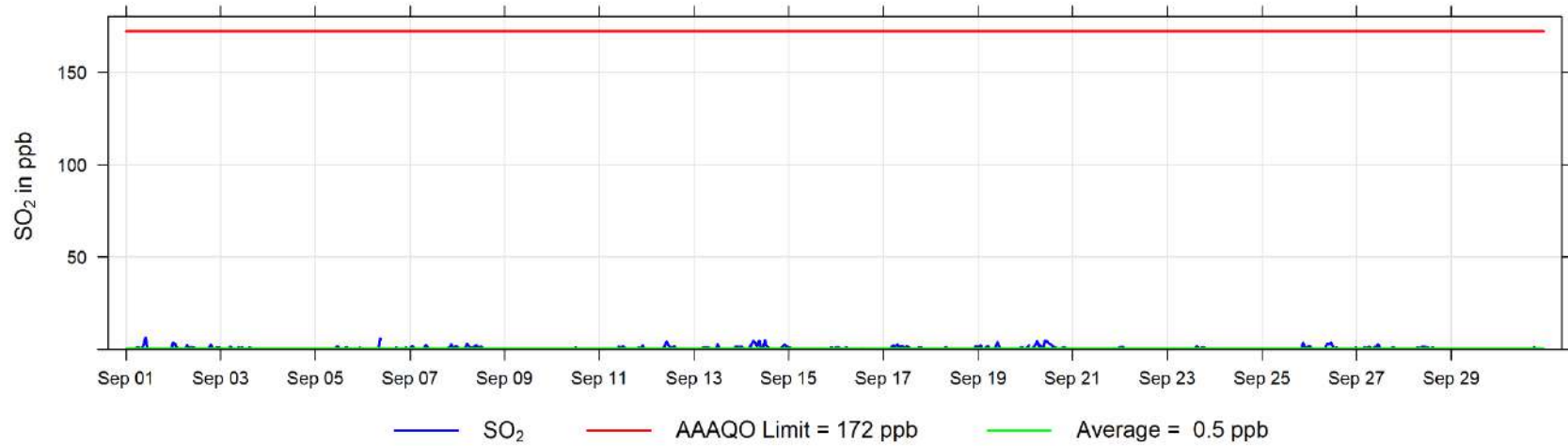
4 Grande Prairie - Henry Pirker Charts

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

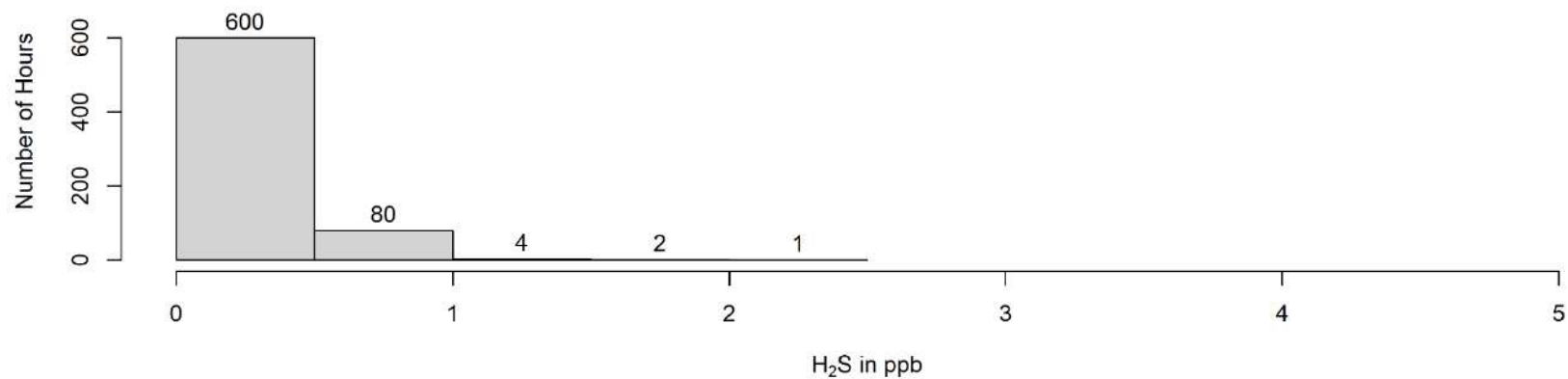
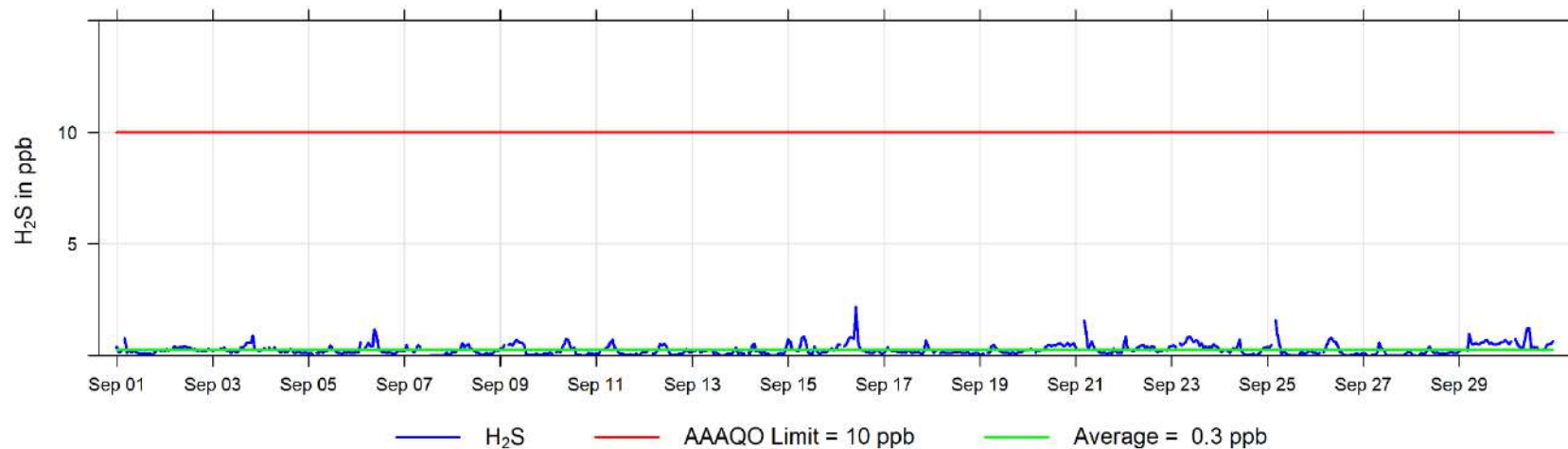
September 2023 Concentration Readings at Henry Pirker Station



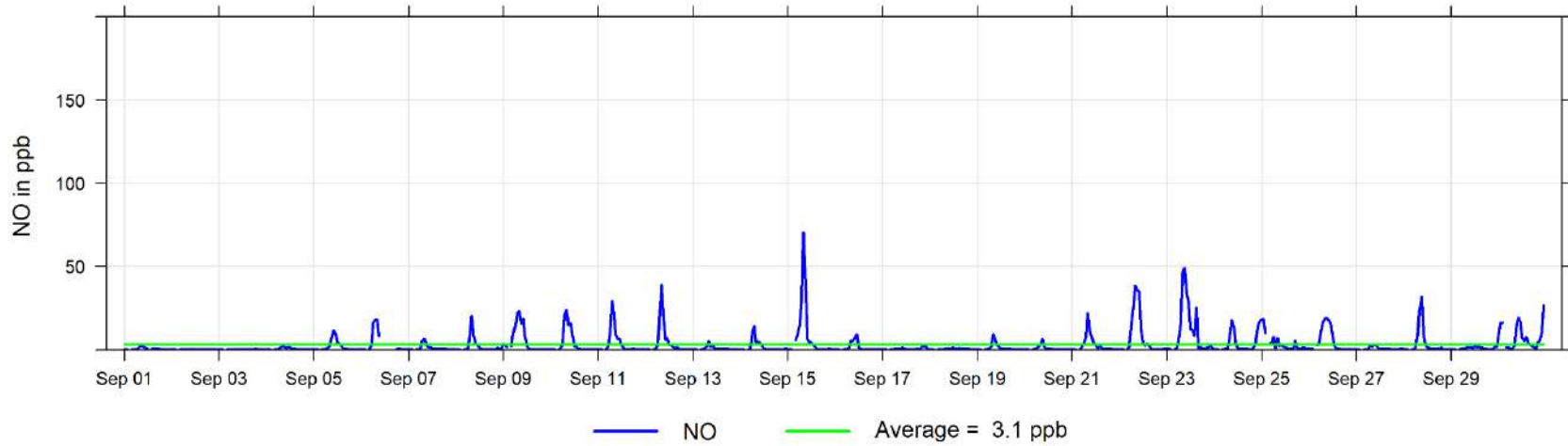
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



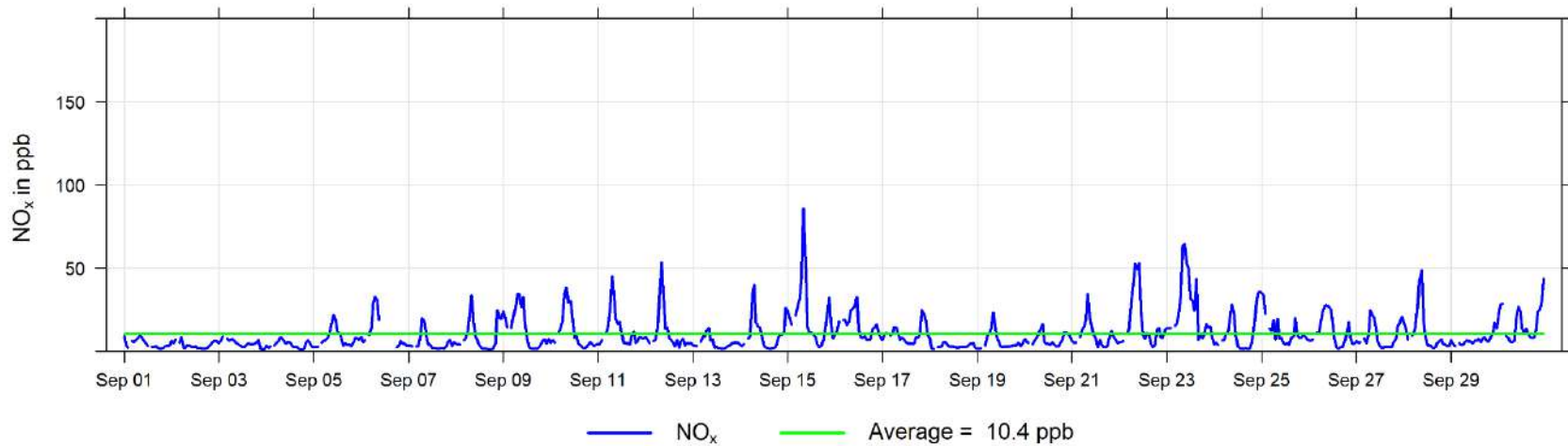
September 2023 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



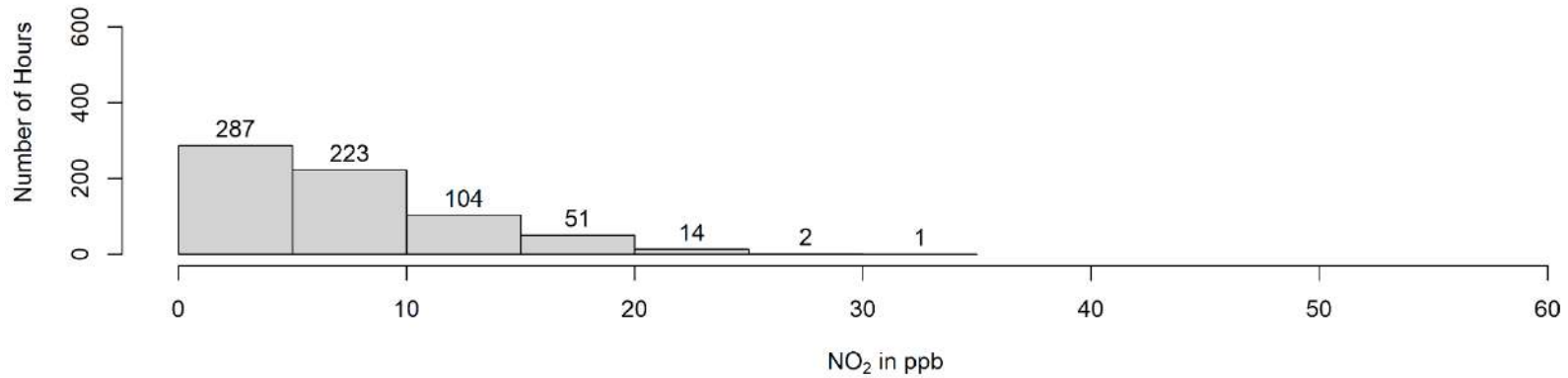
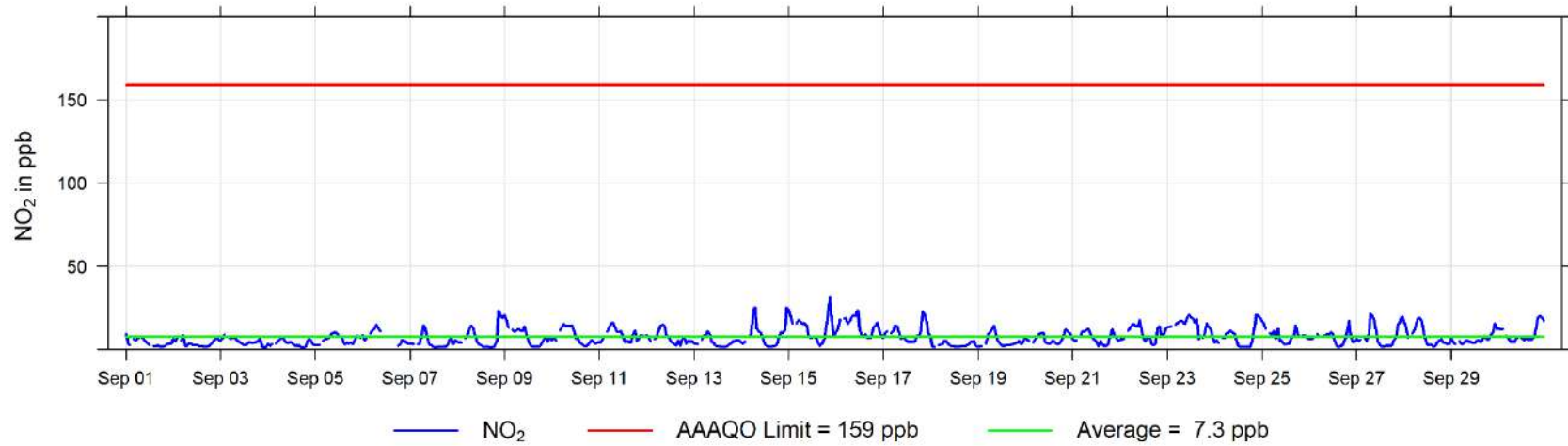
September 2023 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



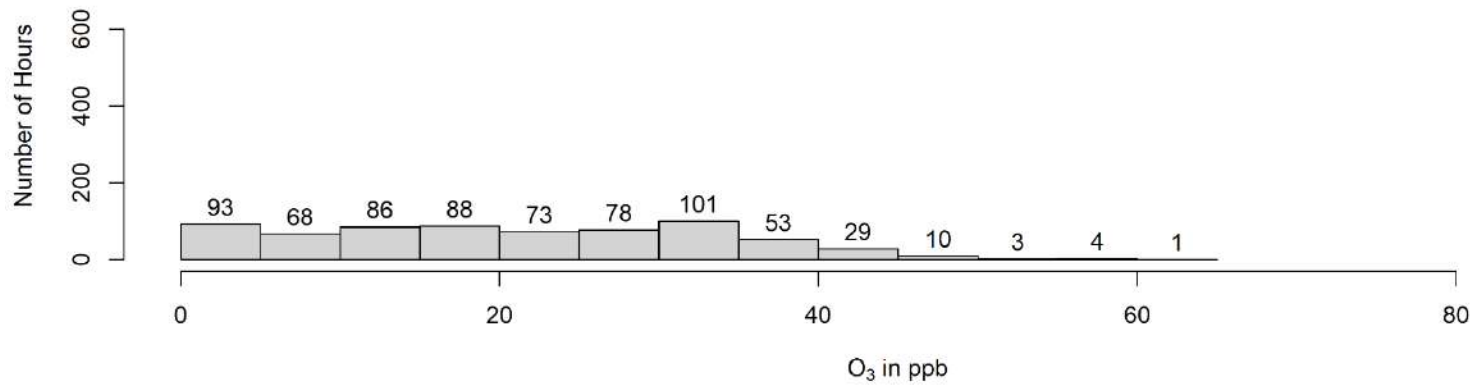
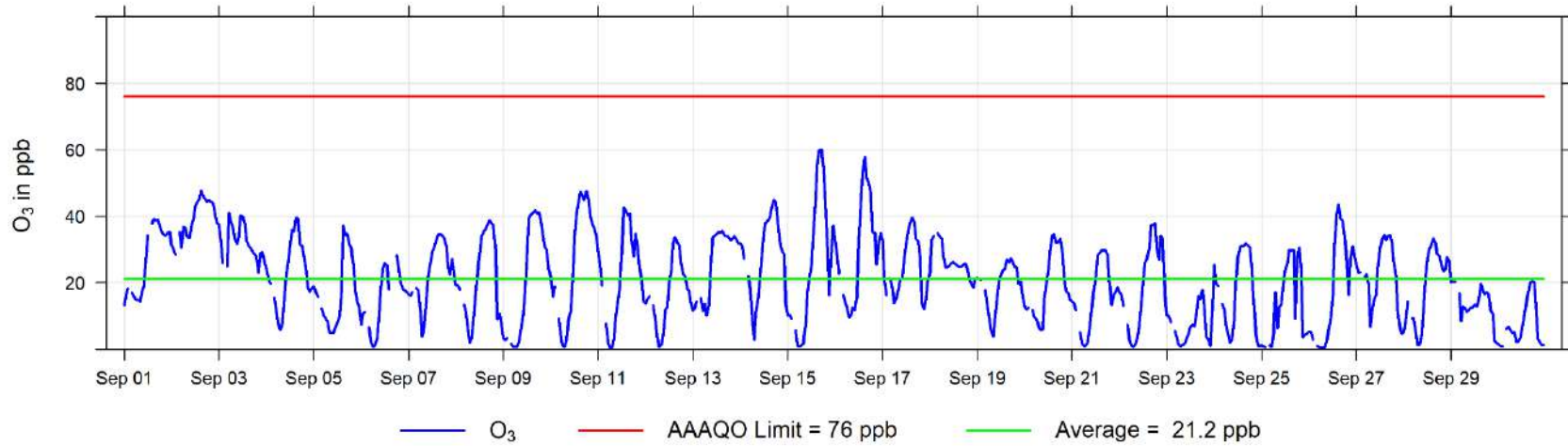
September 2023 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



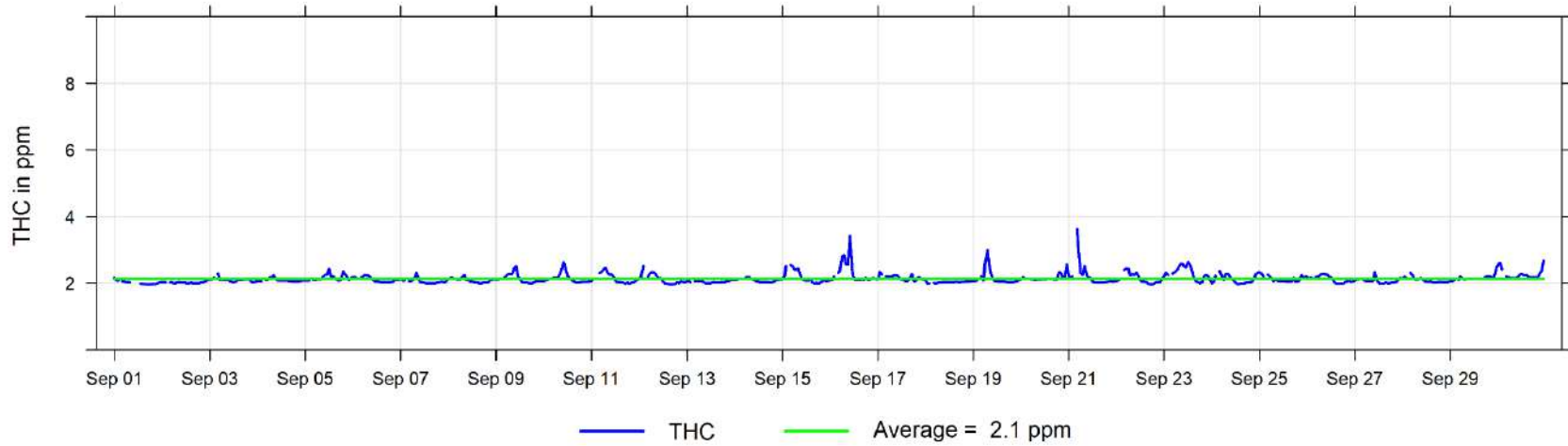
September 2023 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



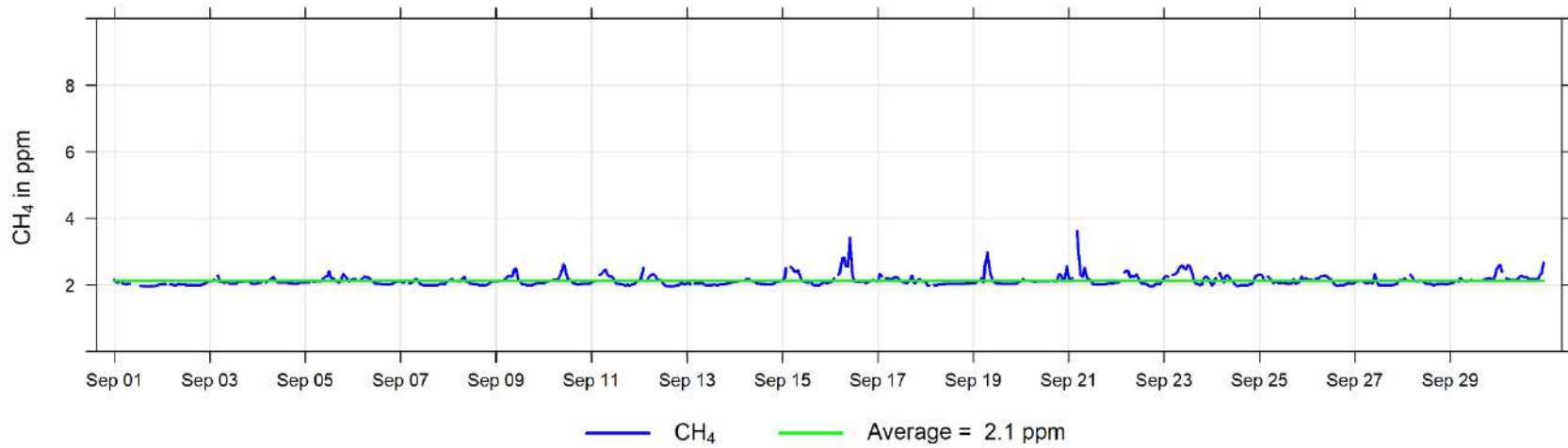
September 2023 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



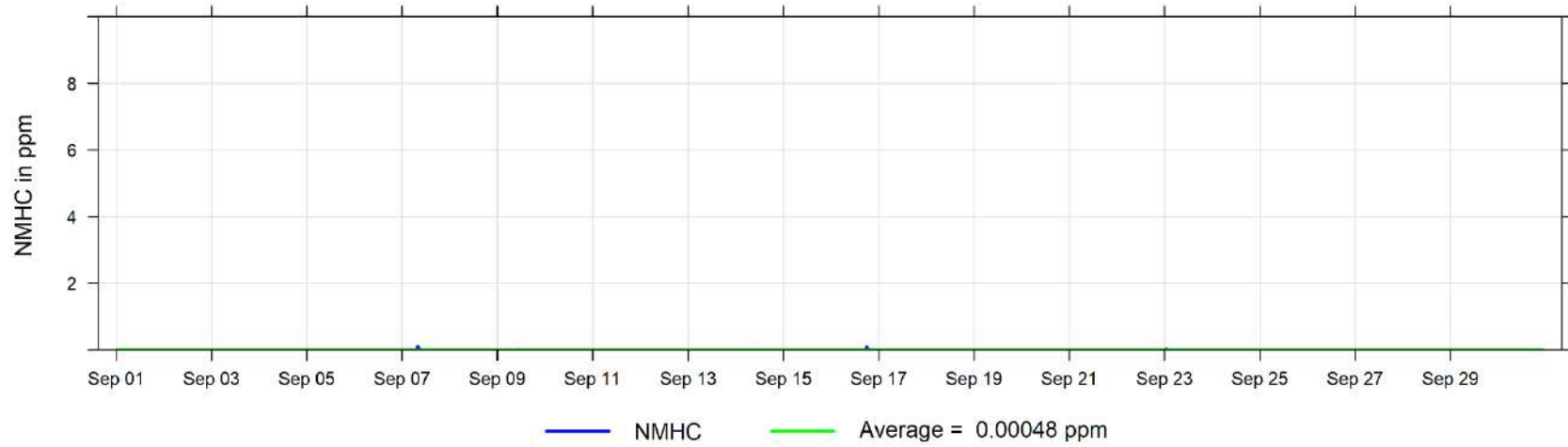
September 2023 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



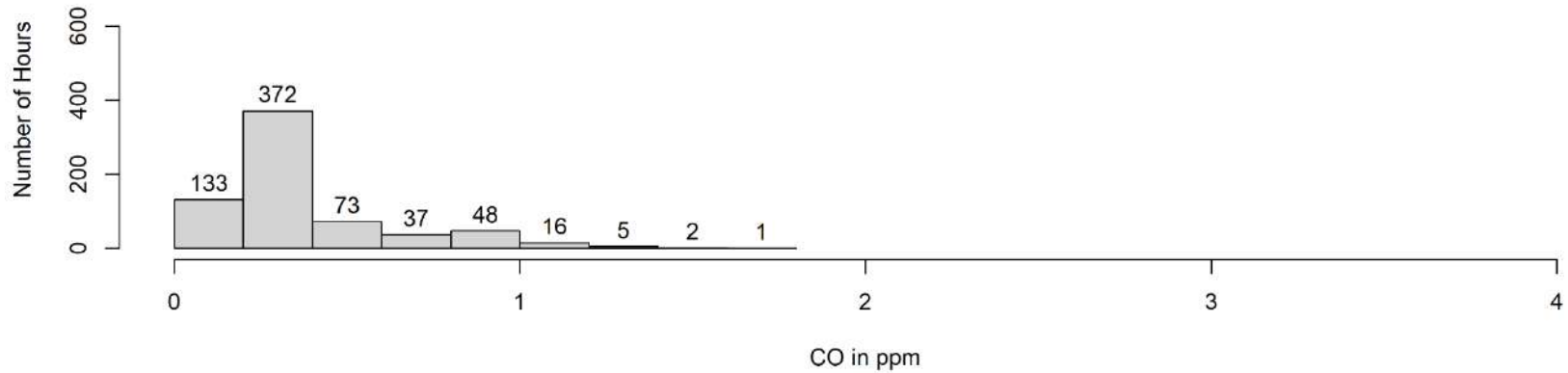
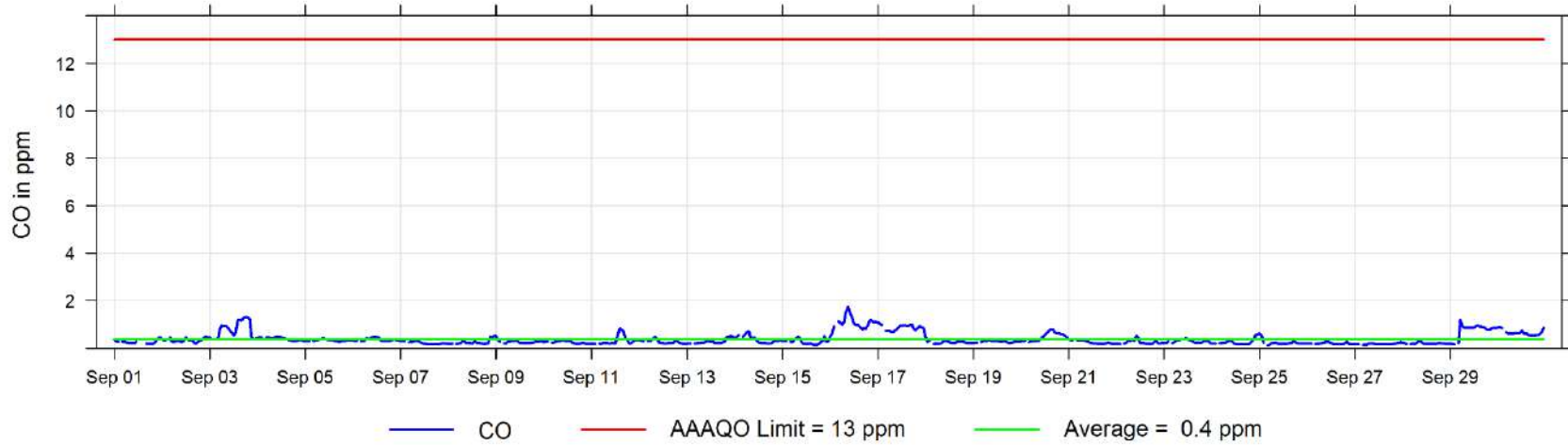
September 2023 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



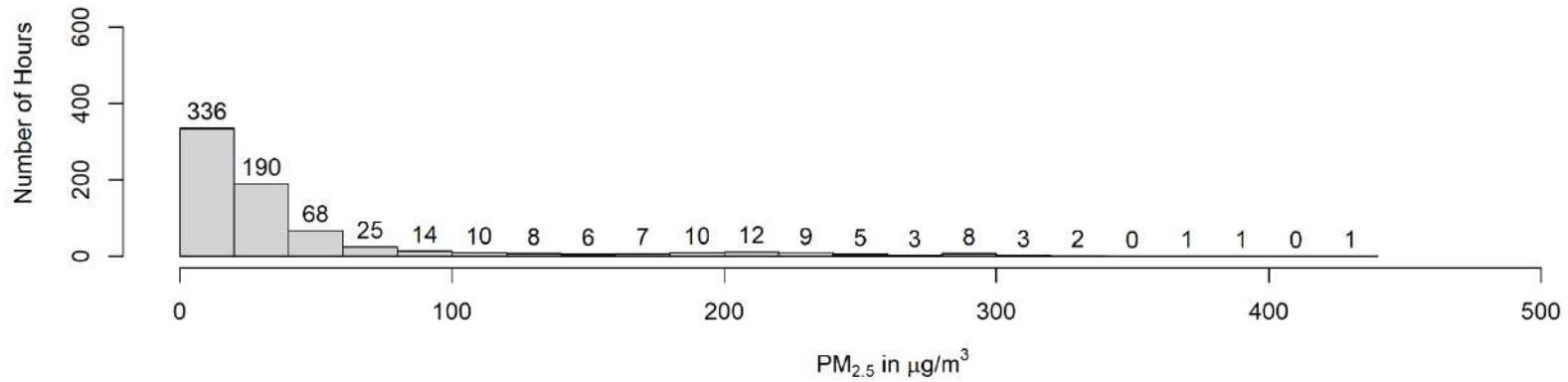
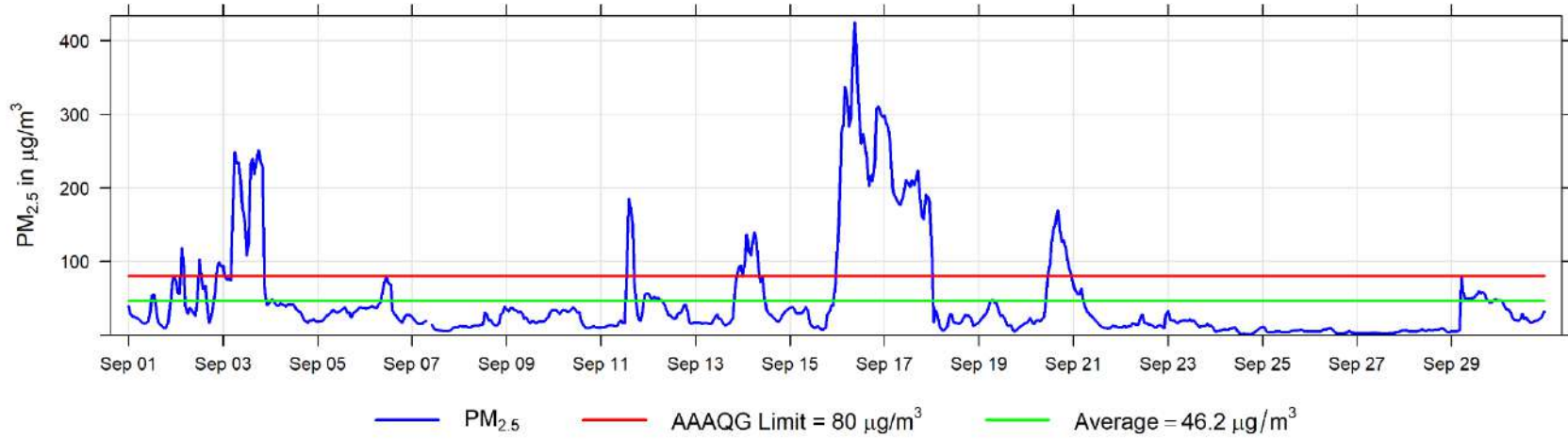
September 2023 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



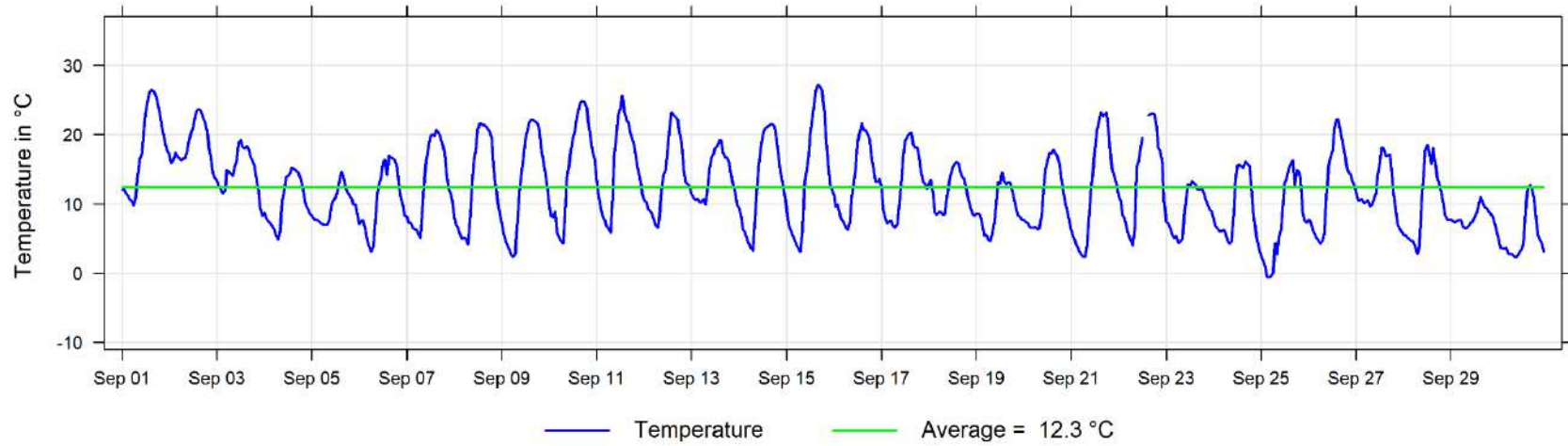
September 2023 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



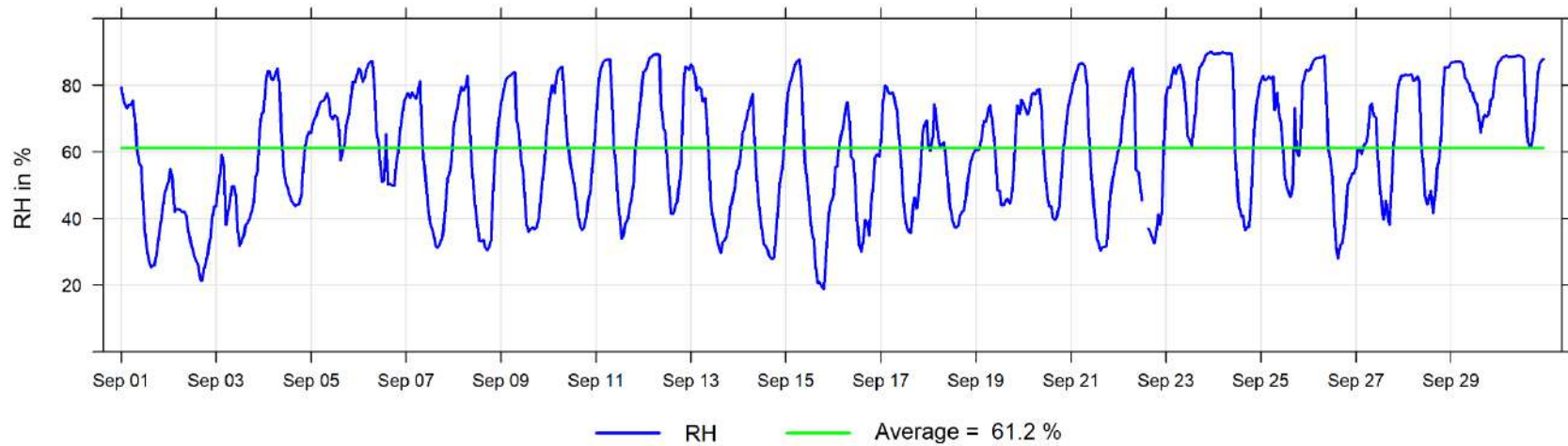
September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



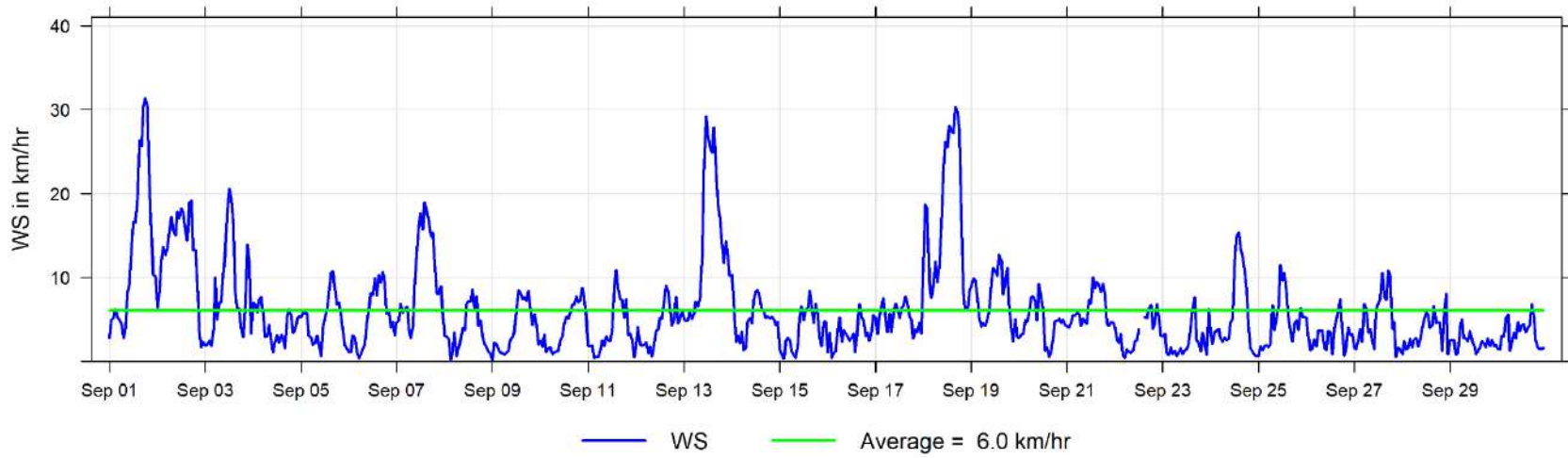
September 2023 Hourly Temperature Readings (in °C) at Henry Pirker



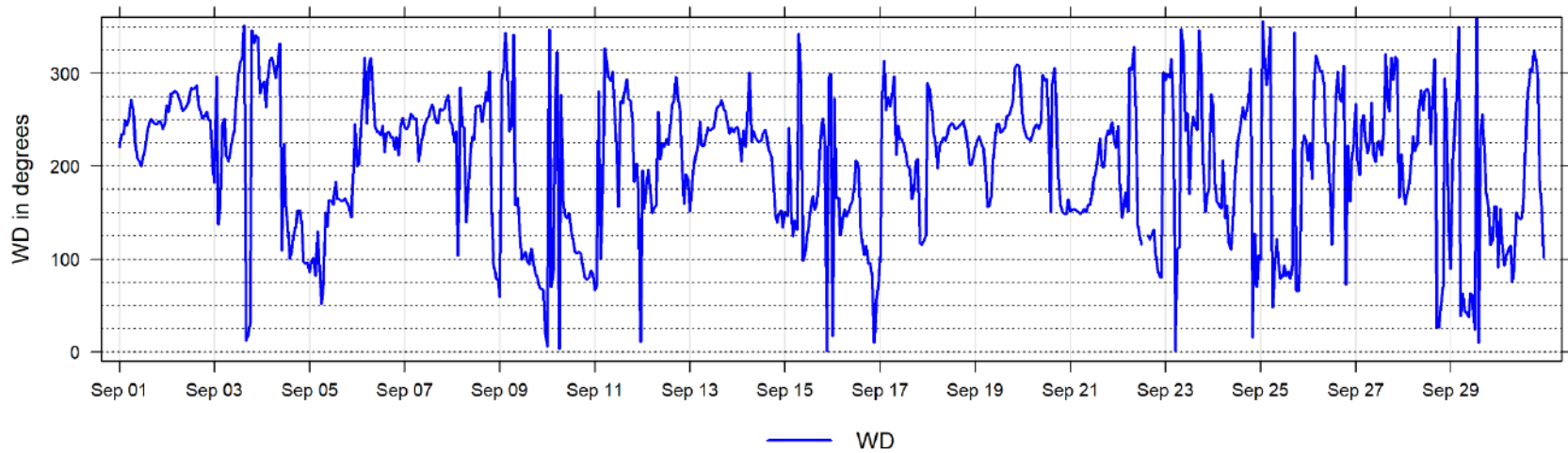
September 2023 Hourly Readings of Relative Humidity (in %) at Henry Pirker



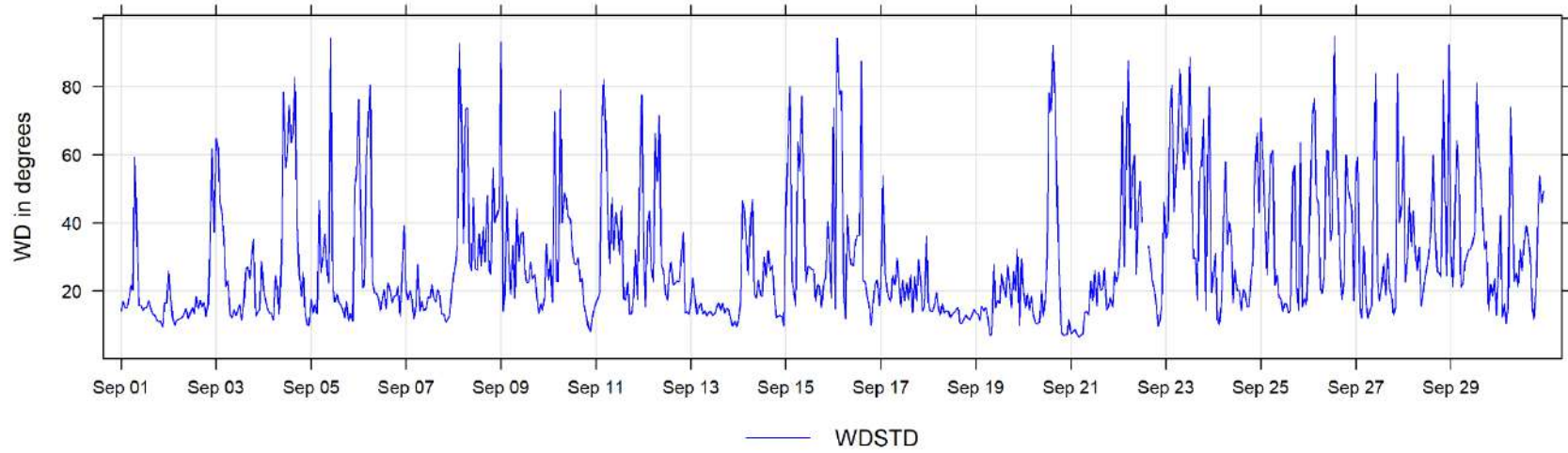
September 2023 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

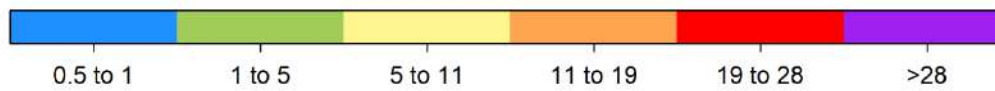
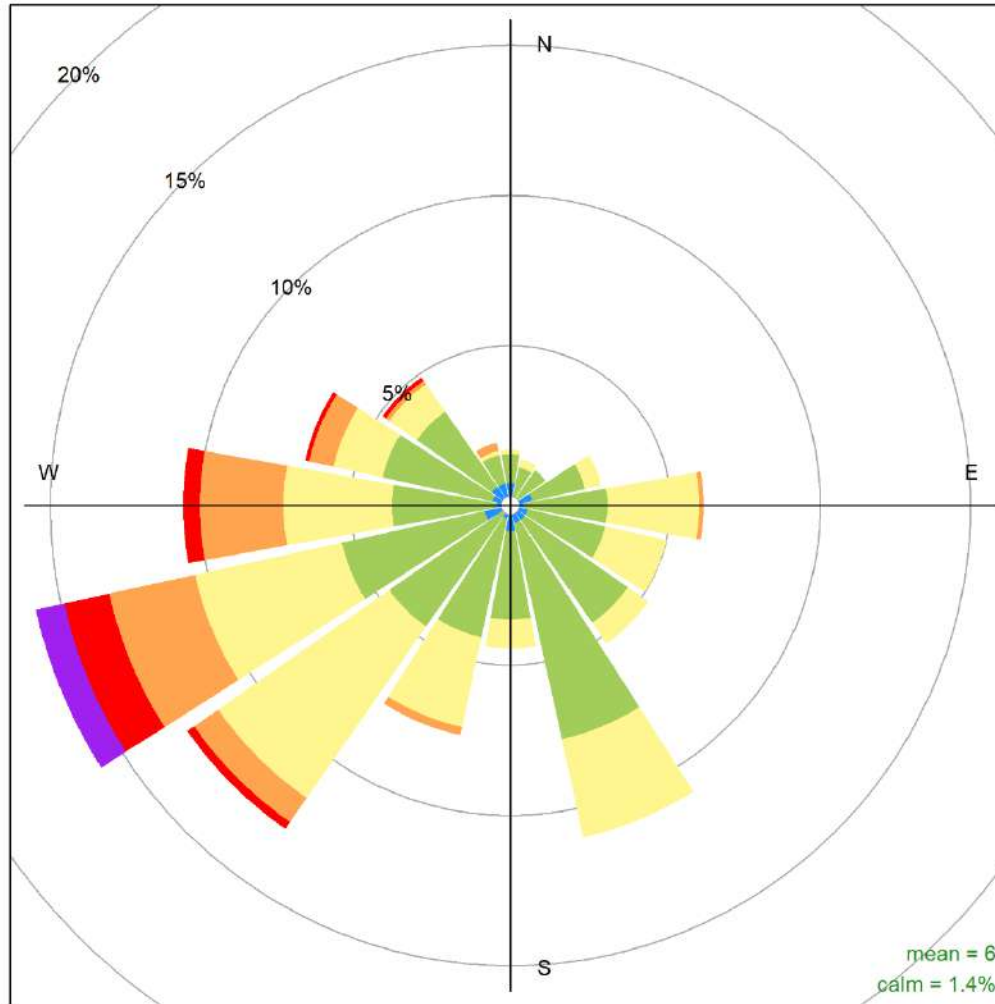


September 2023 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker

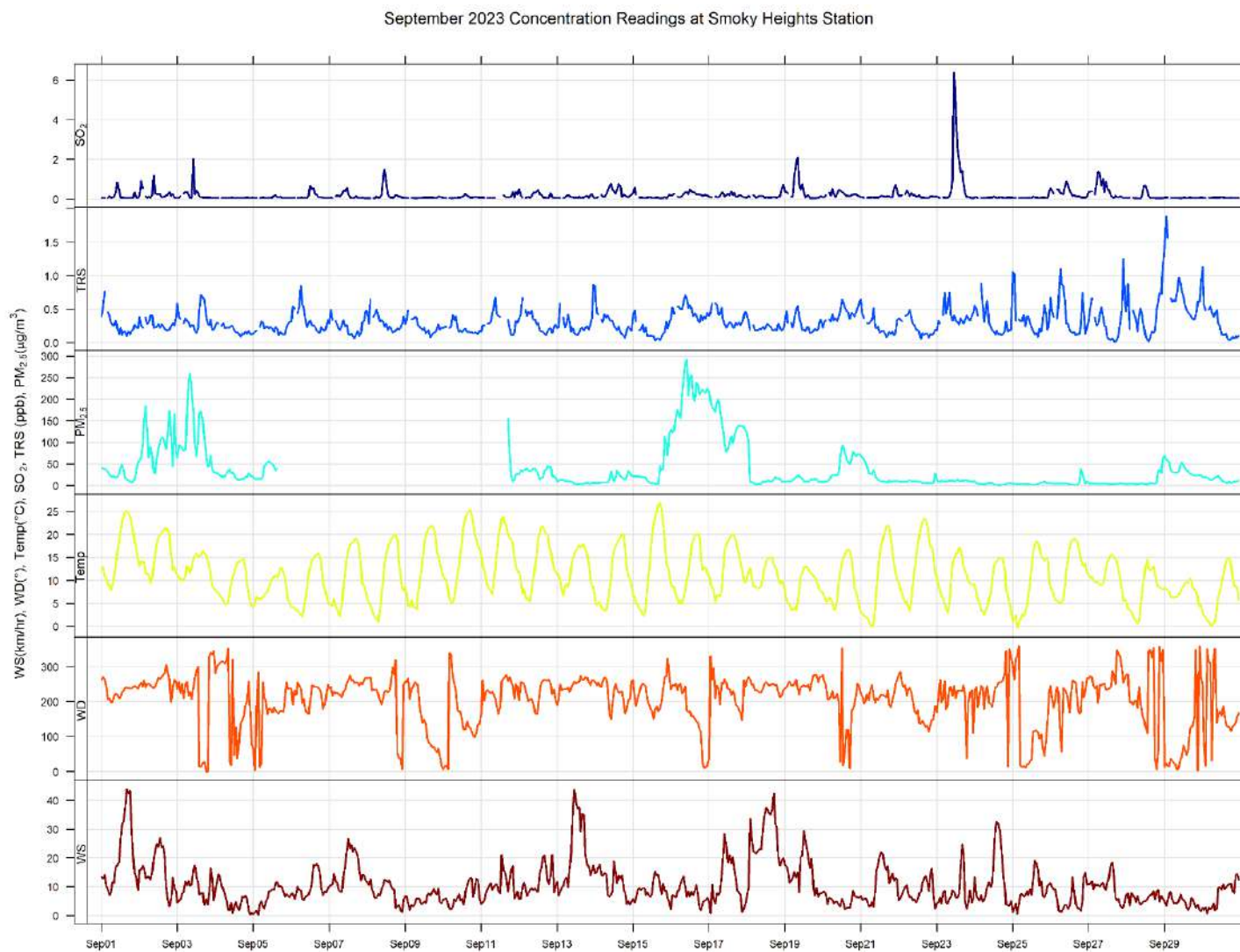




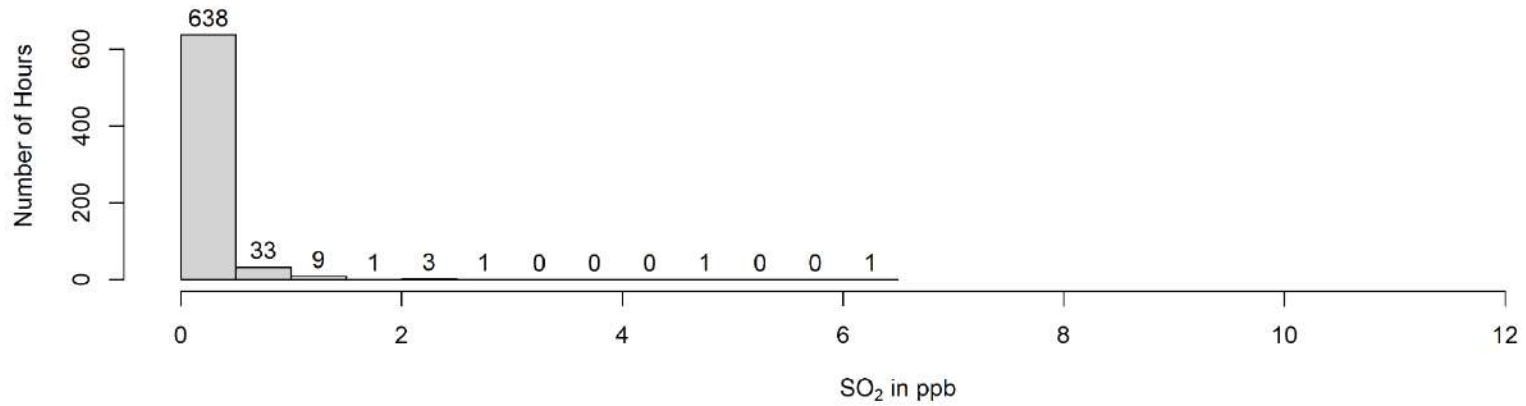
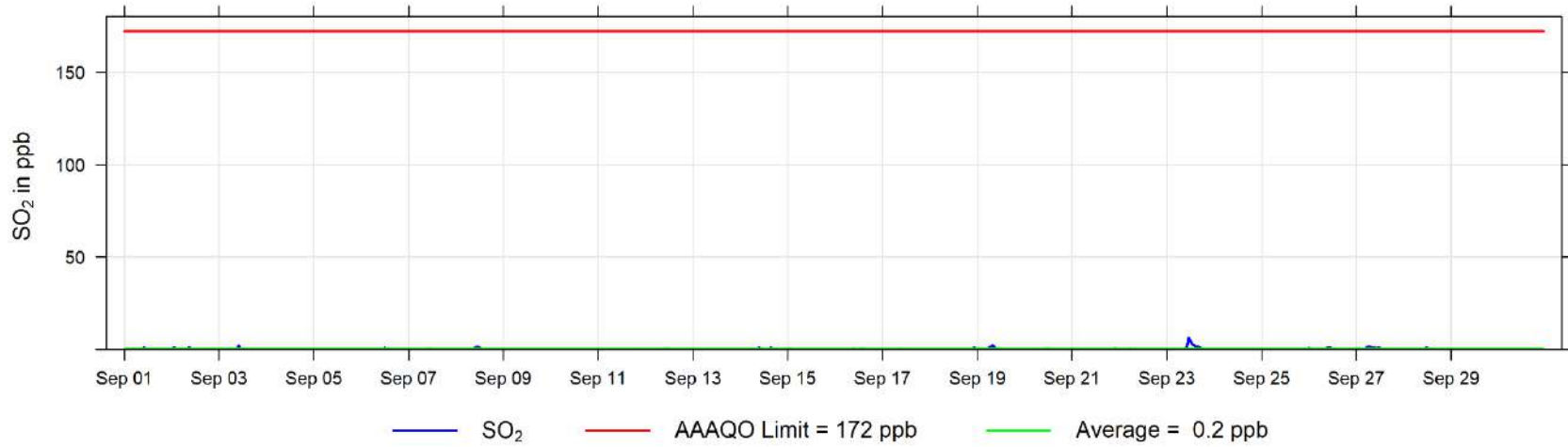
Henry Pirker September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

5 Smoky Heights Charts

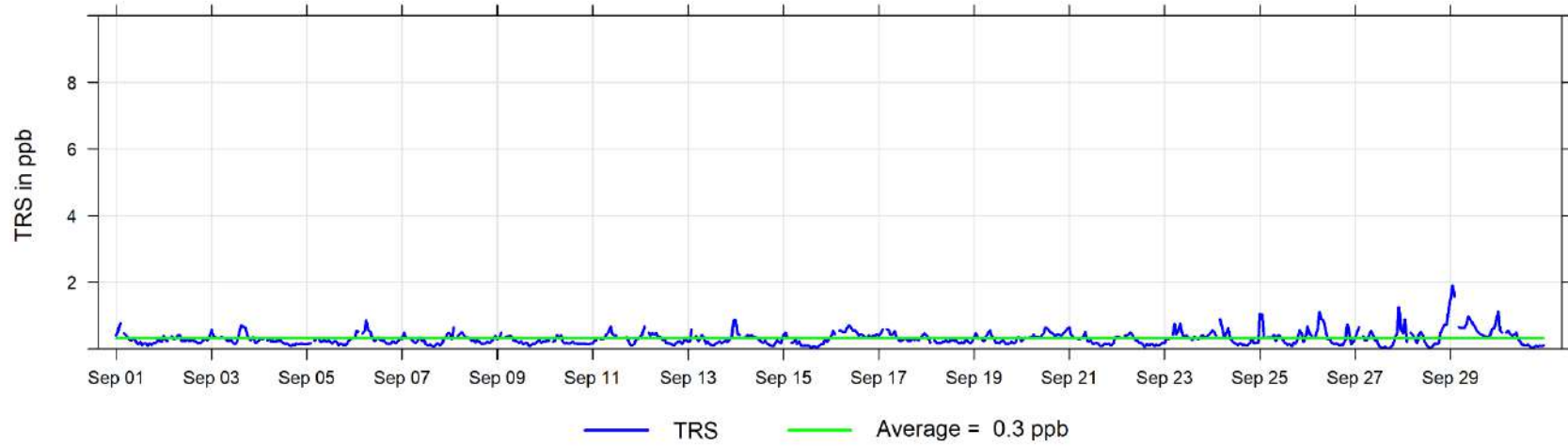
The following pages include the charts and histograms for Smoky Heights Station



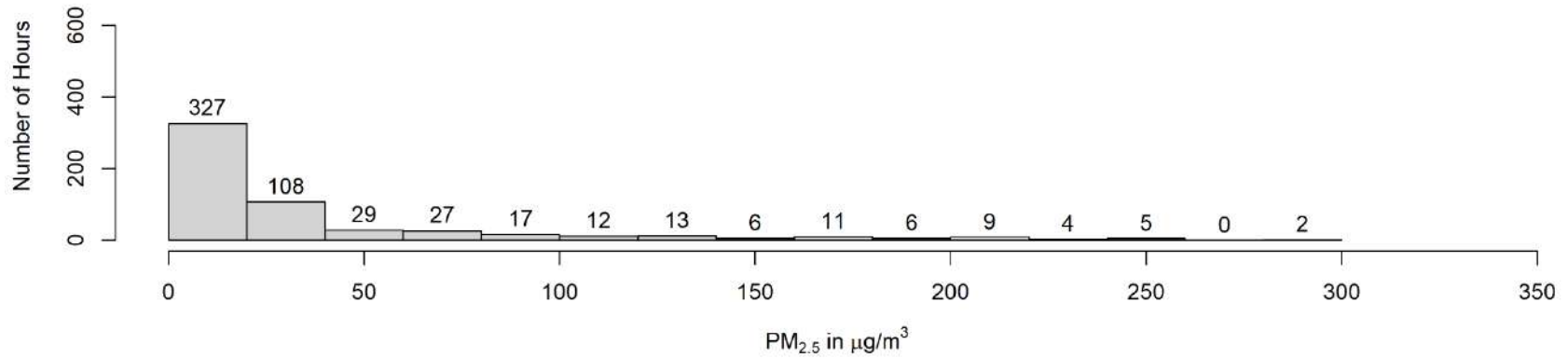
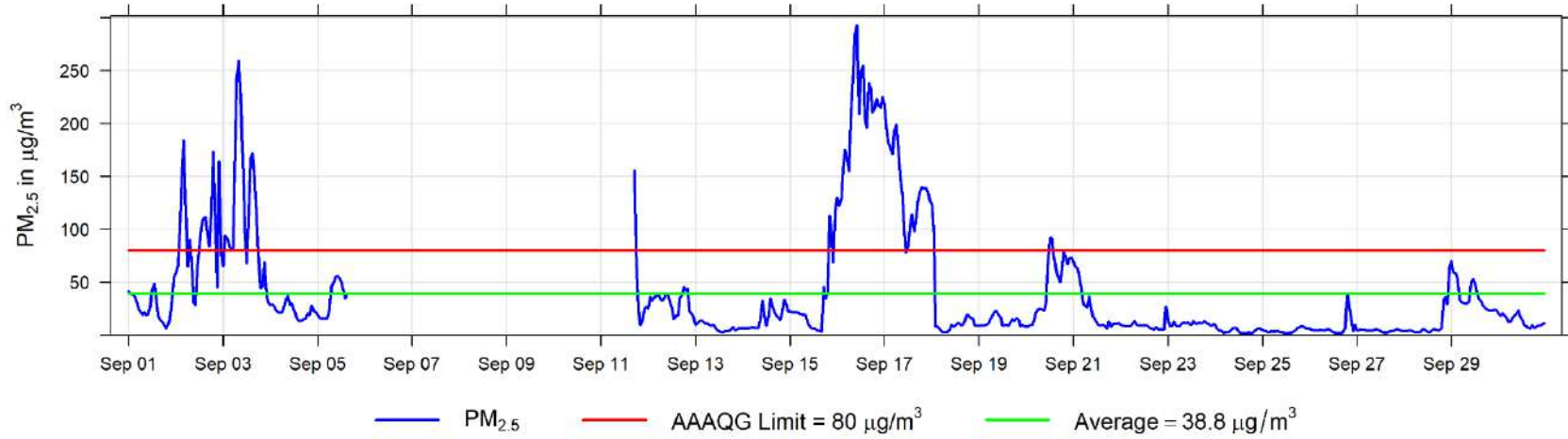
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



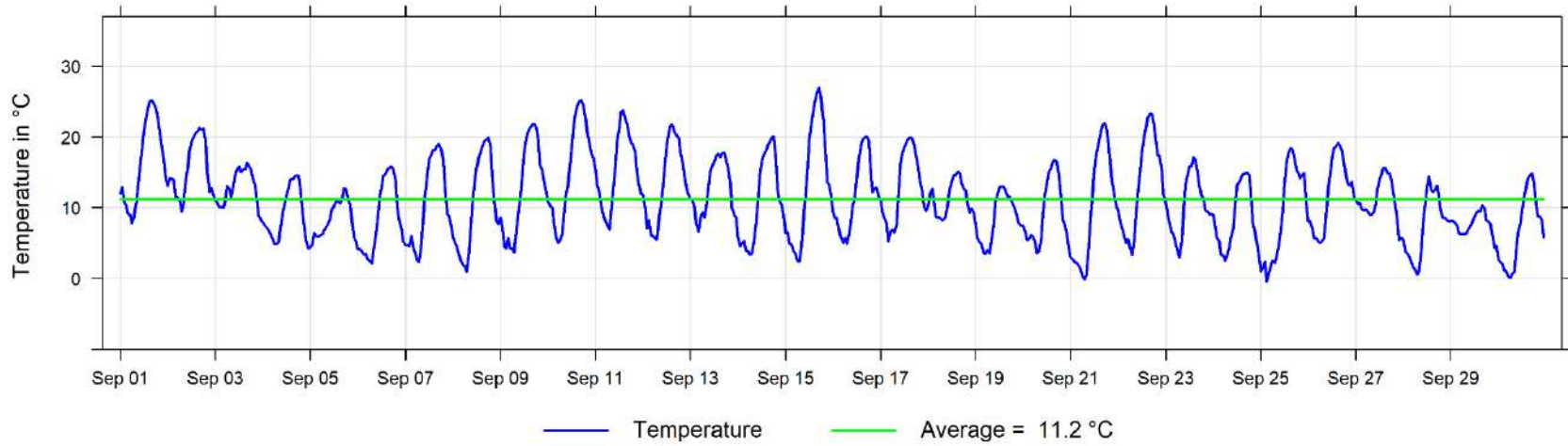
September 2023 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



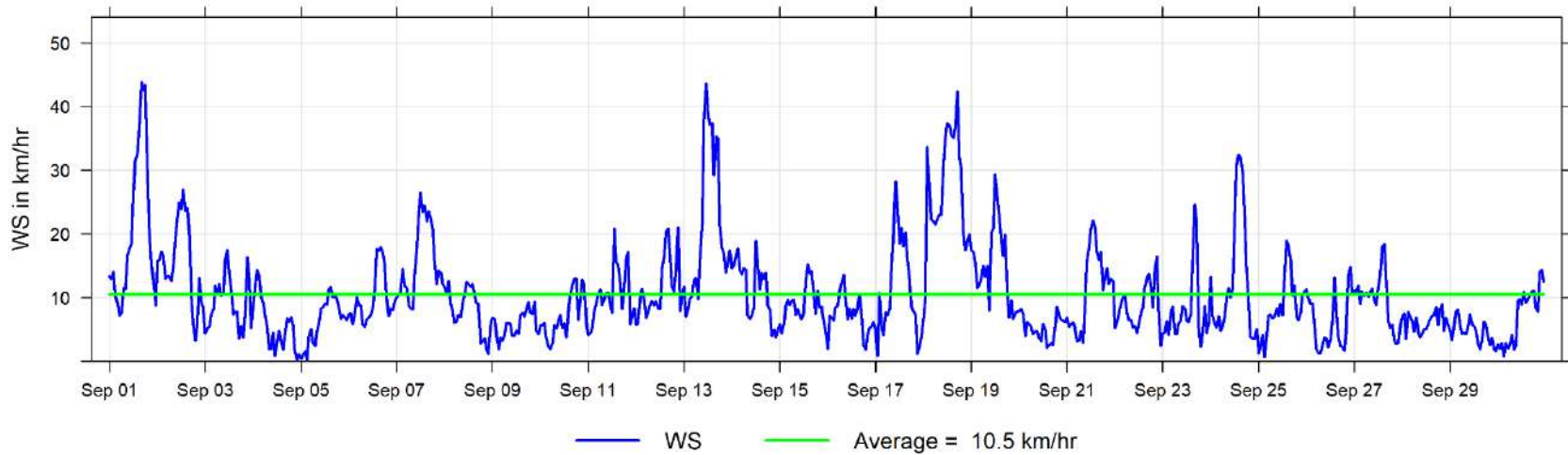
September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



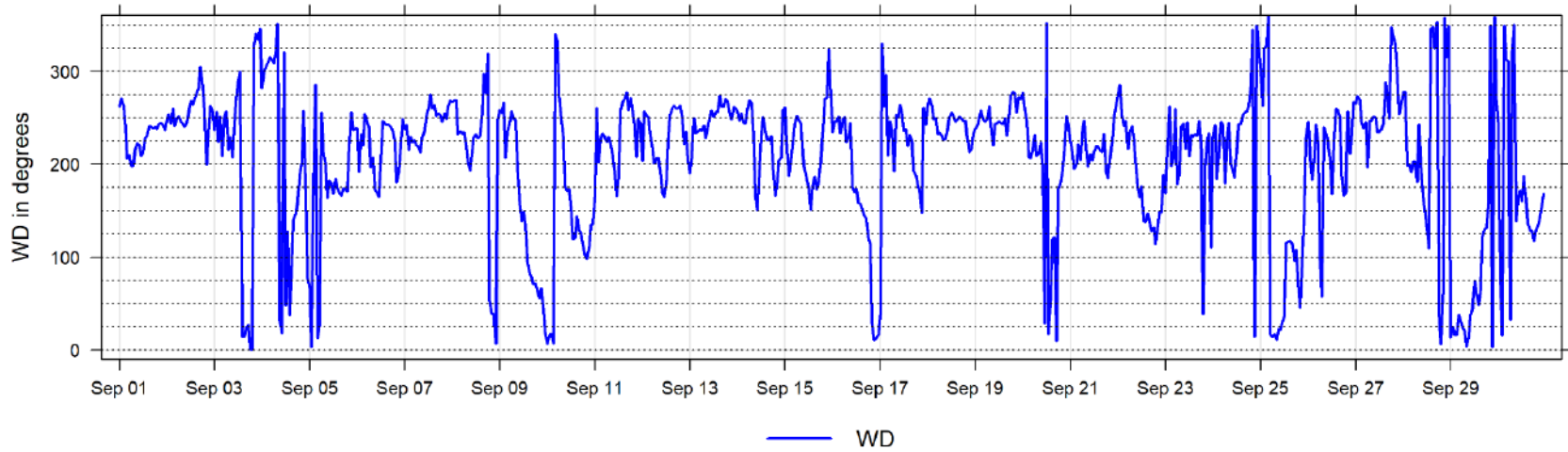
September 2023 Hourly Temperature Readings (in °C) at Smoky Heights



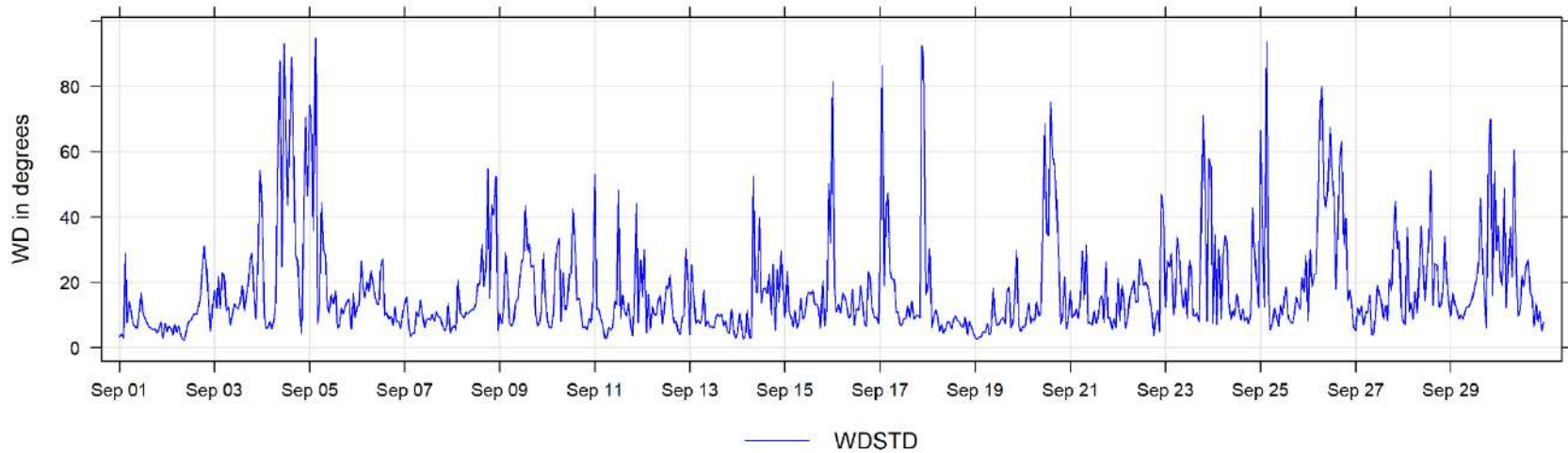
September 2023 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

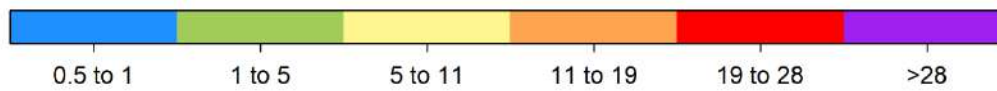
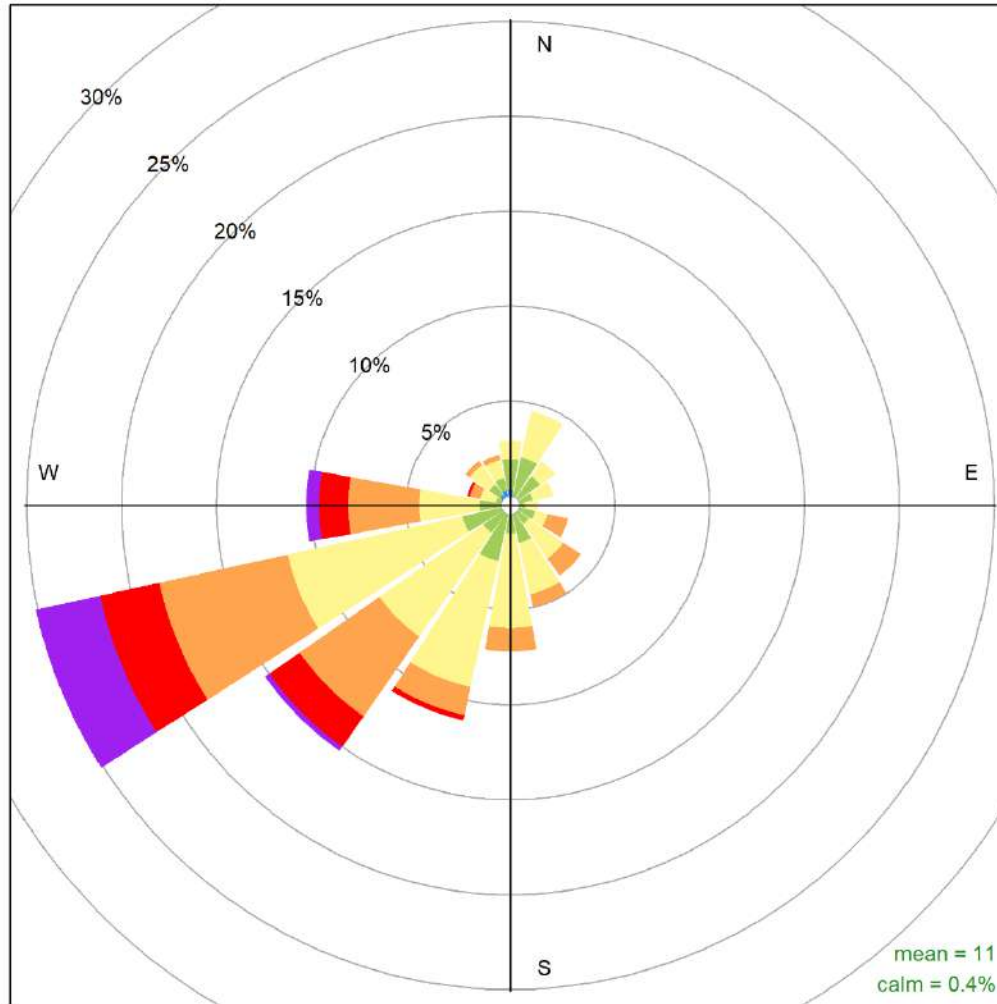


September 2023 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights

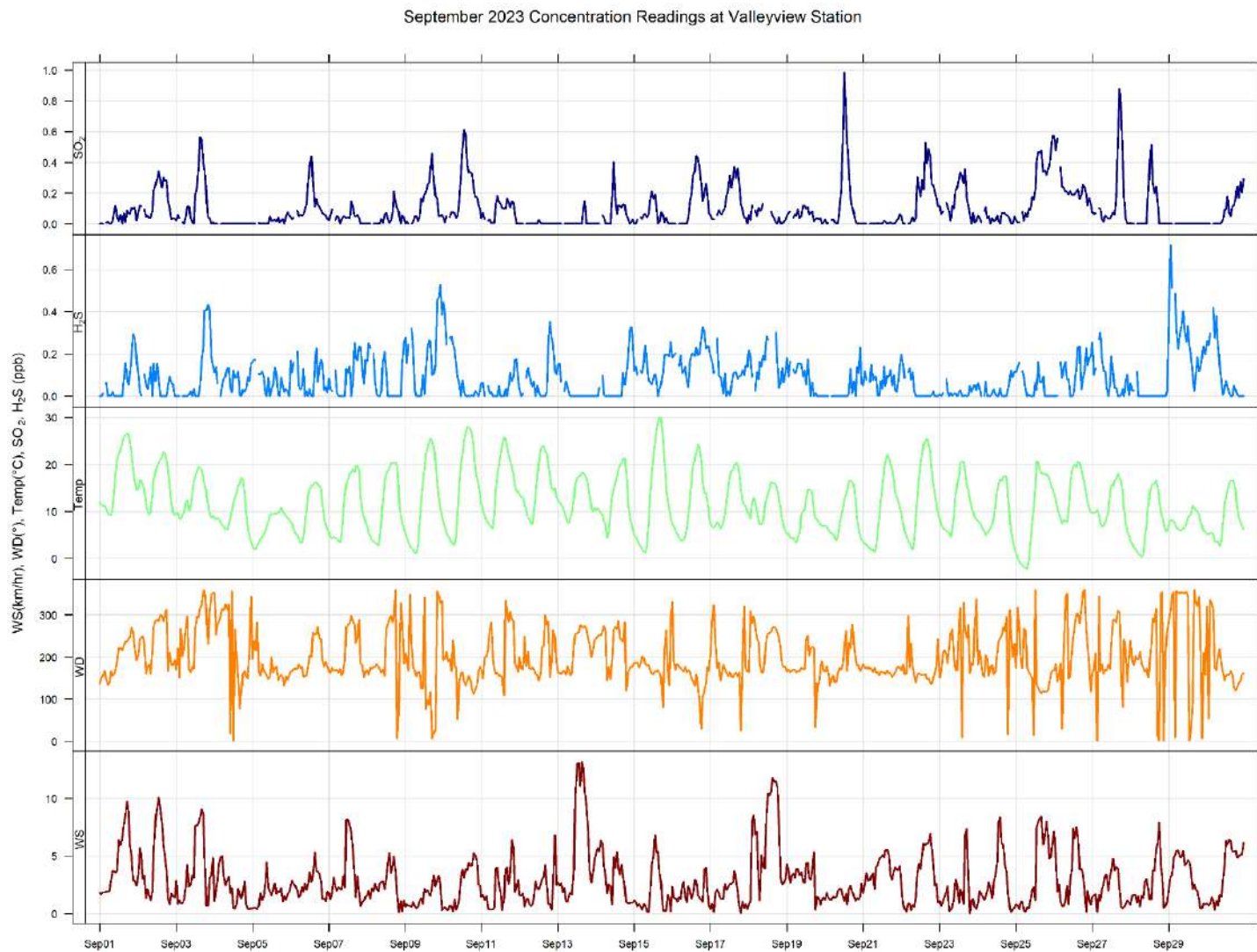




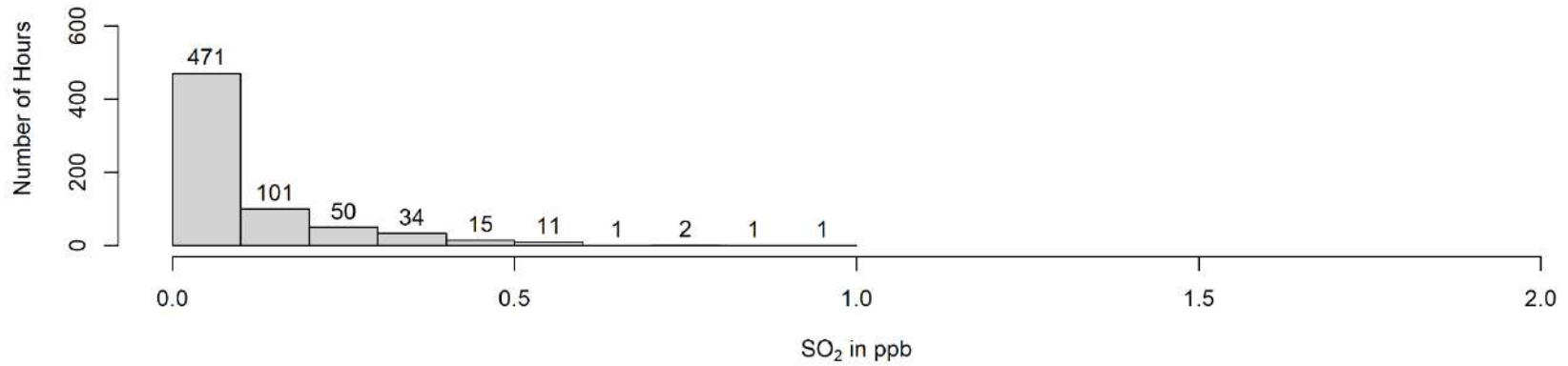
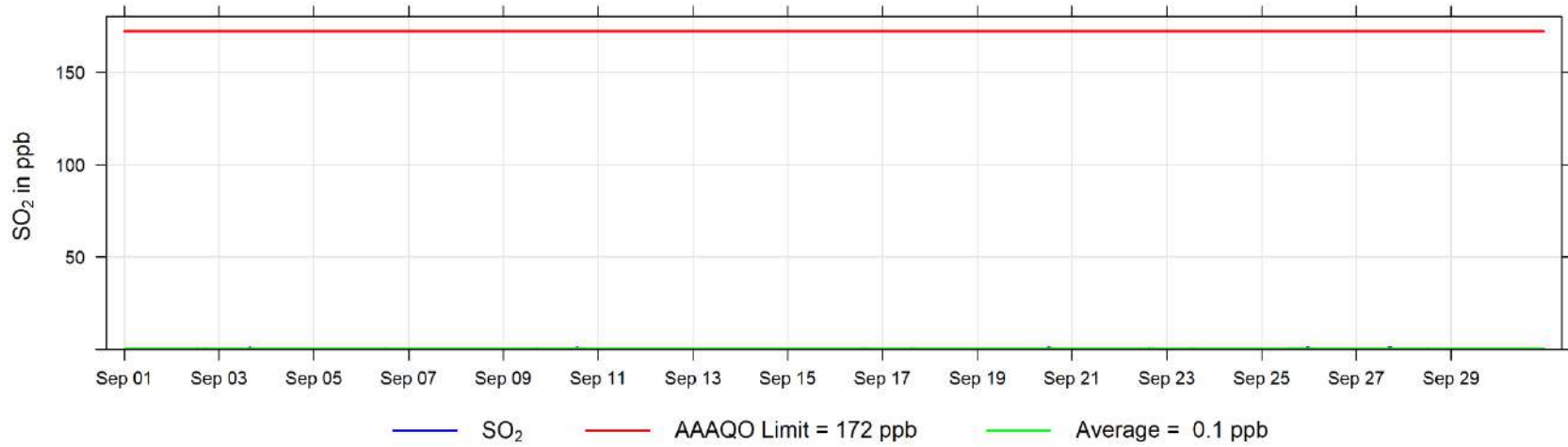
Smoky Heights September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

6 Valleyview Charts

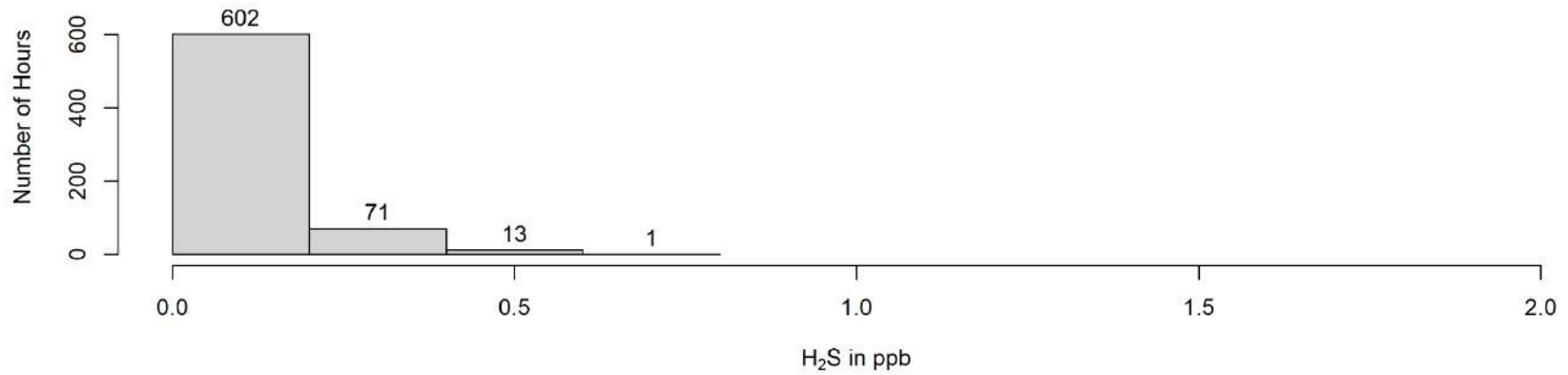
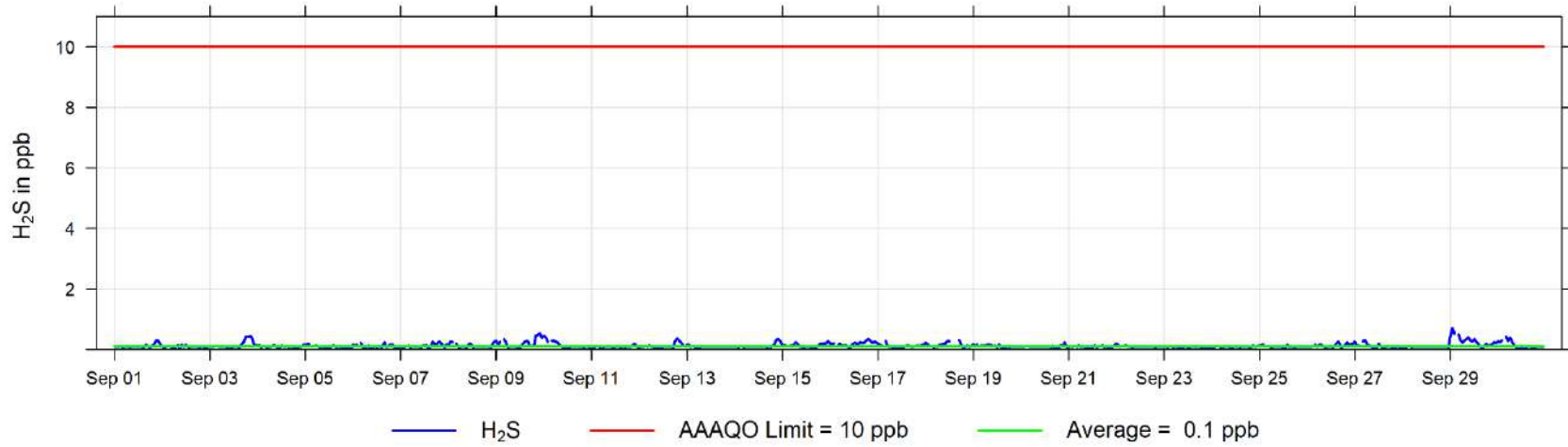
The following pages include the charts and histograms for Valleyview Station



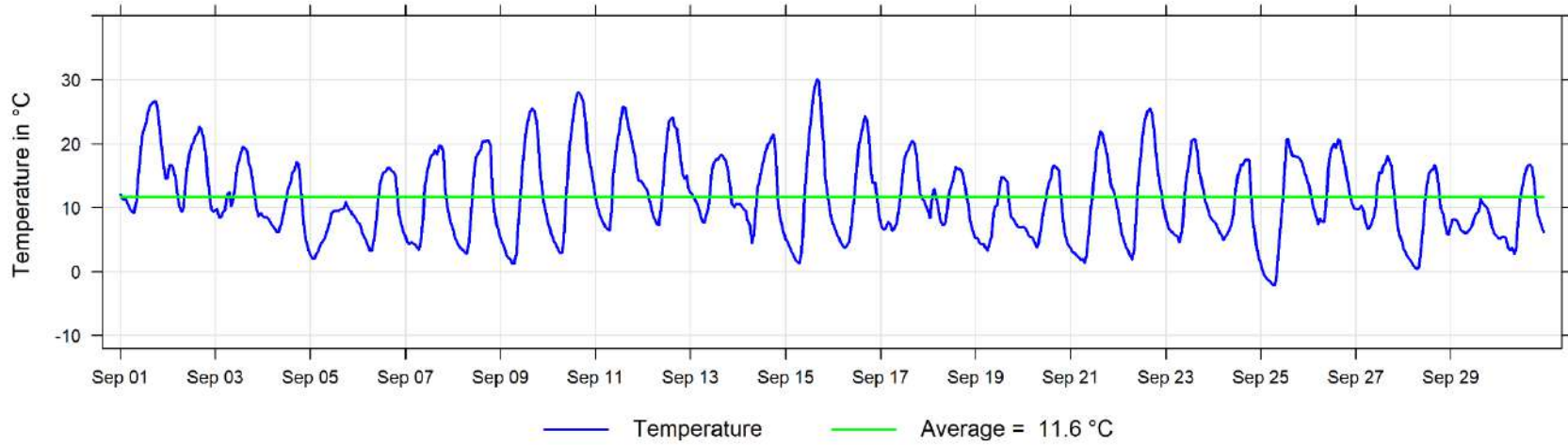
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



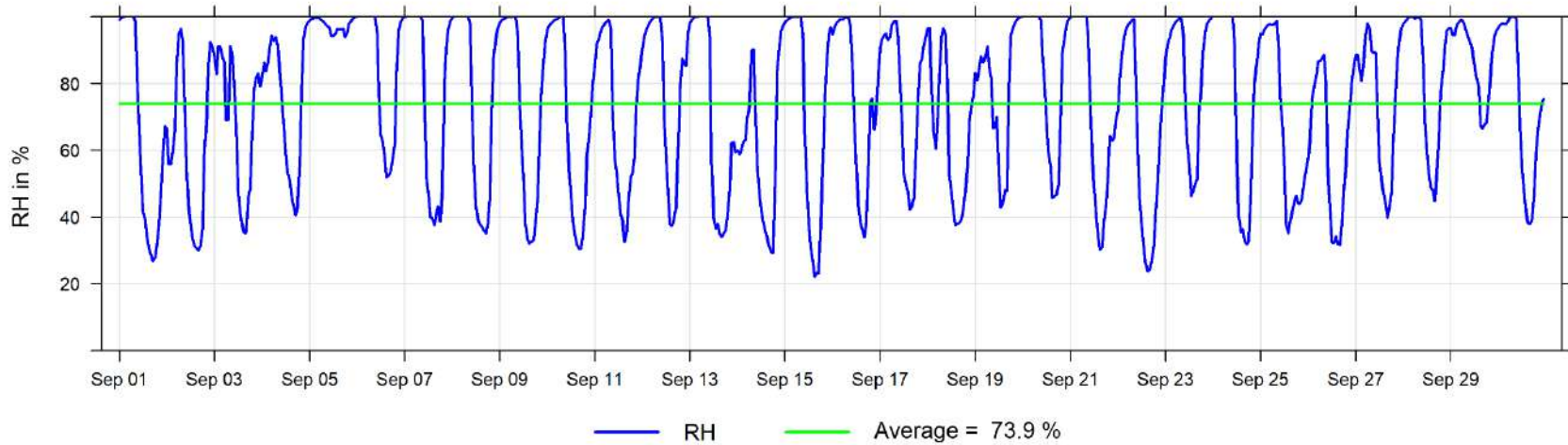
September 2023 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



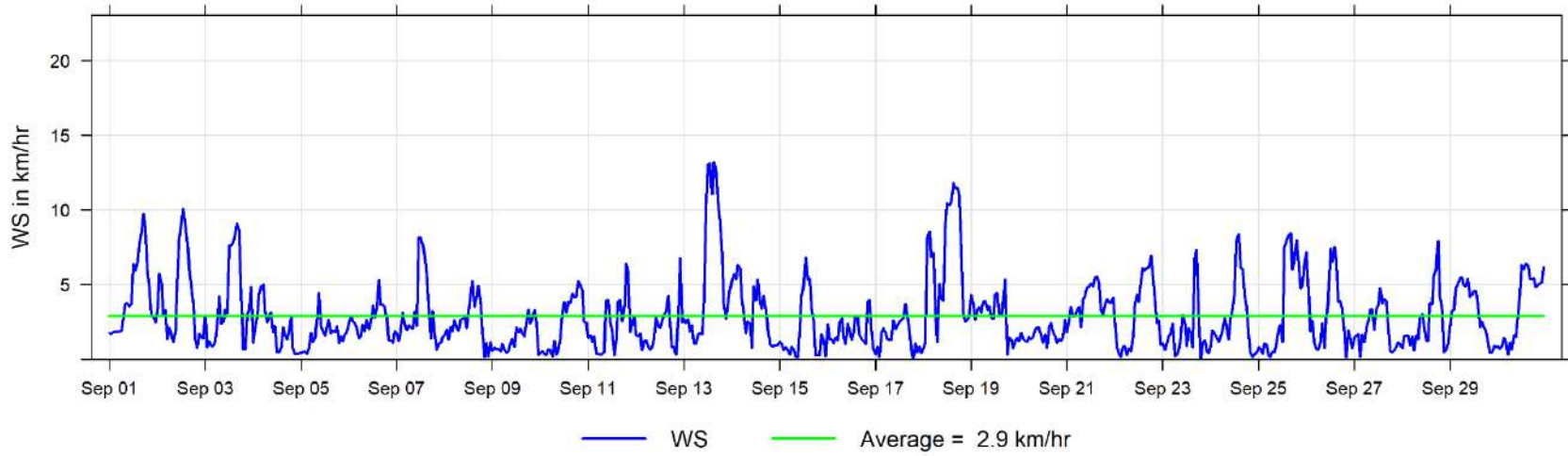
September 2023 Hourly Temperature Readings (in °C) at Valleyview



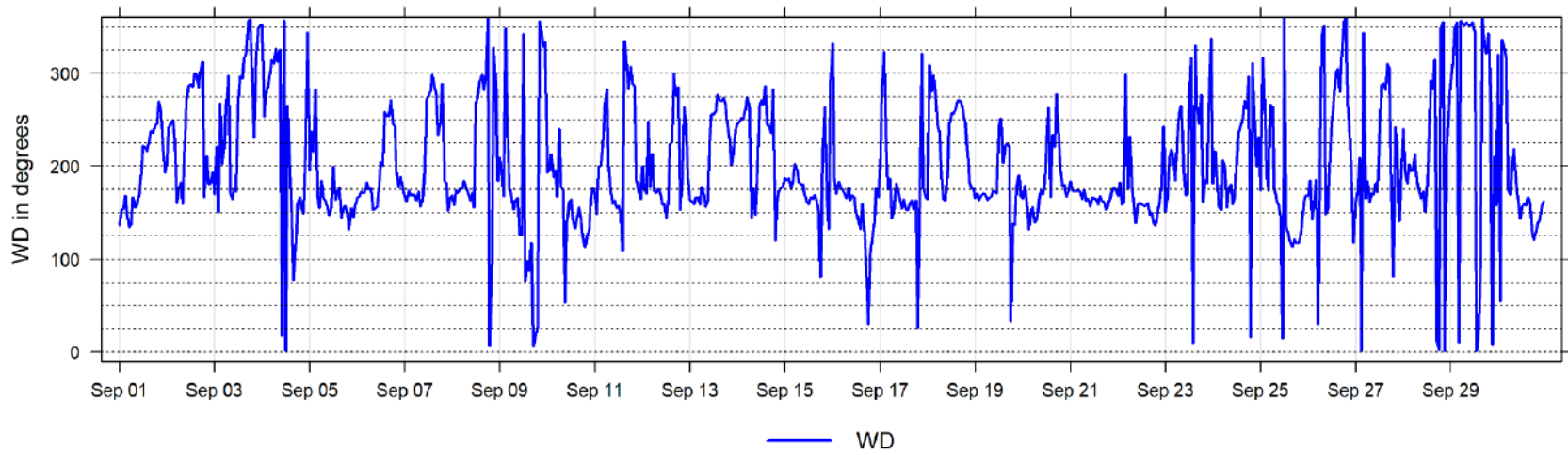
September 2023 Hourly Readings of Relative Humidity (in %) at Valleyview



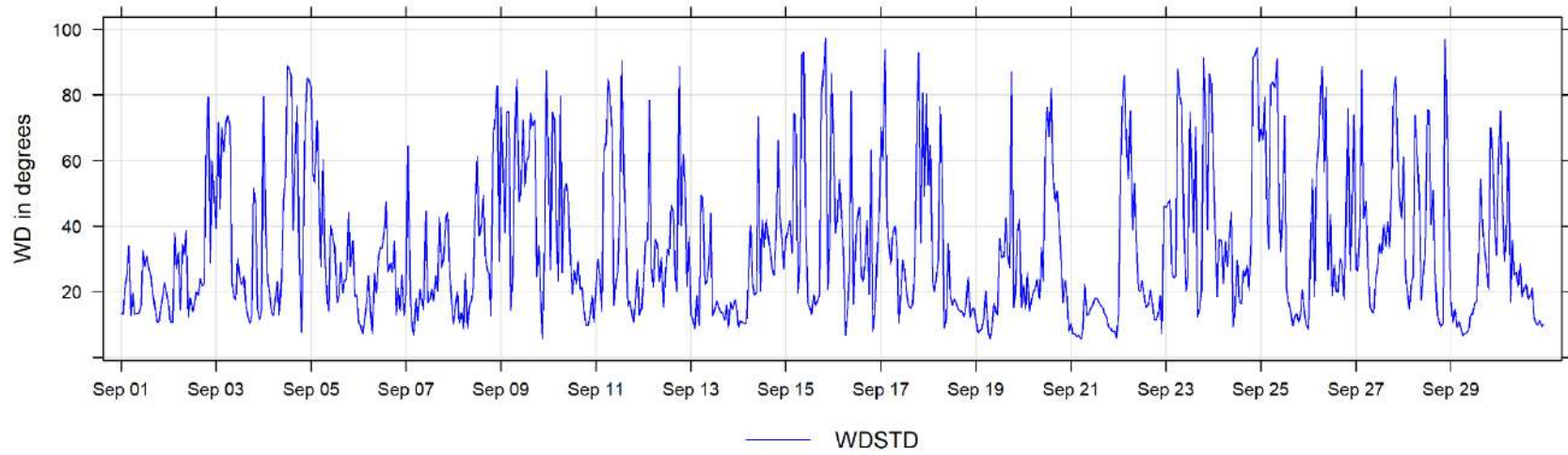
September 2023 Hourly Readings of Wind Speed (in km/hr) at Valleyview

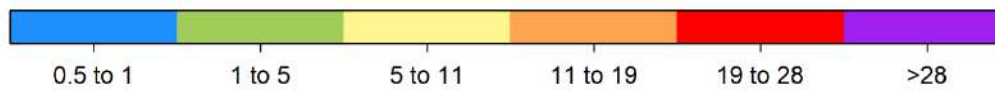
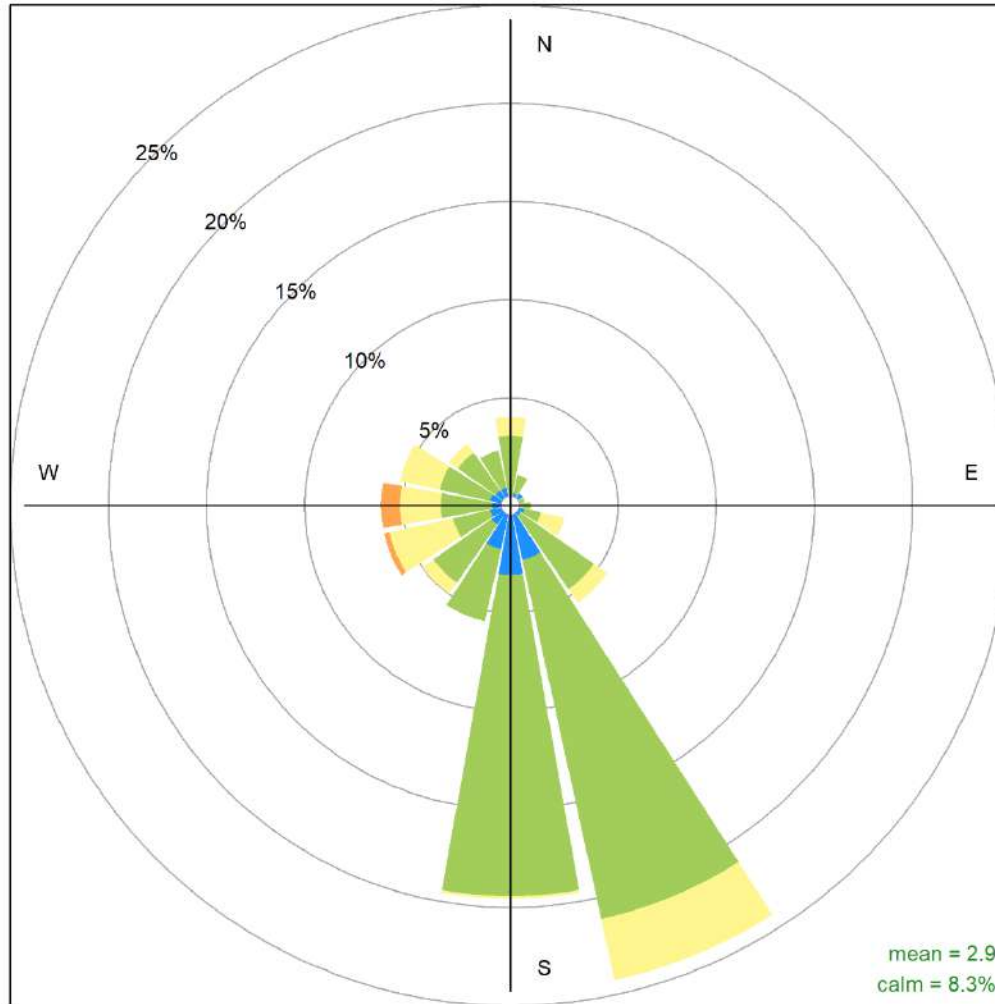


September 2023 Hourly Readings of Wind Direction (in degrees) at Valleyview



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview





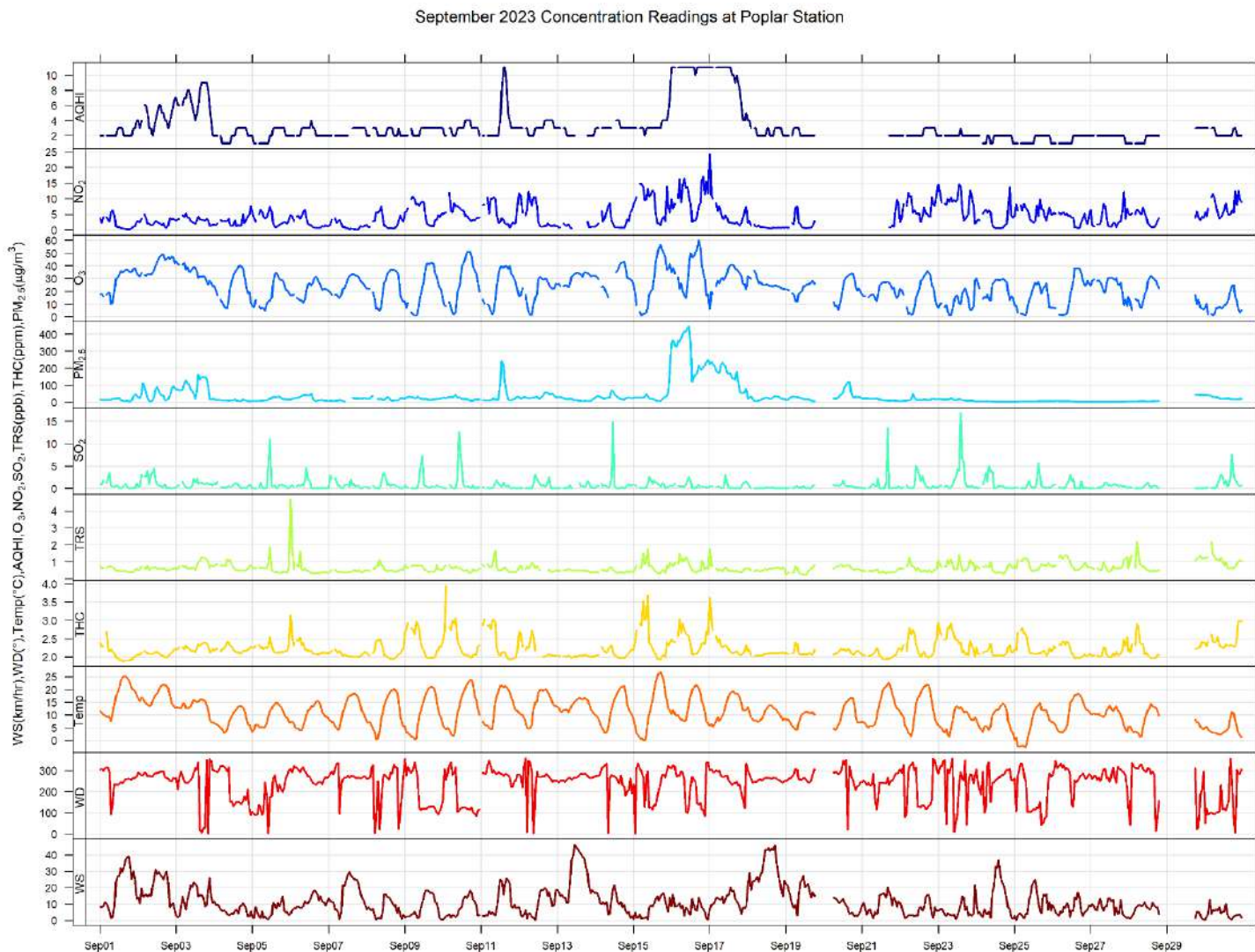
Valleyview September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

7 Donnelly Charts – Station Decommissioned

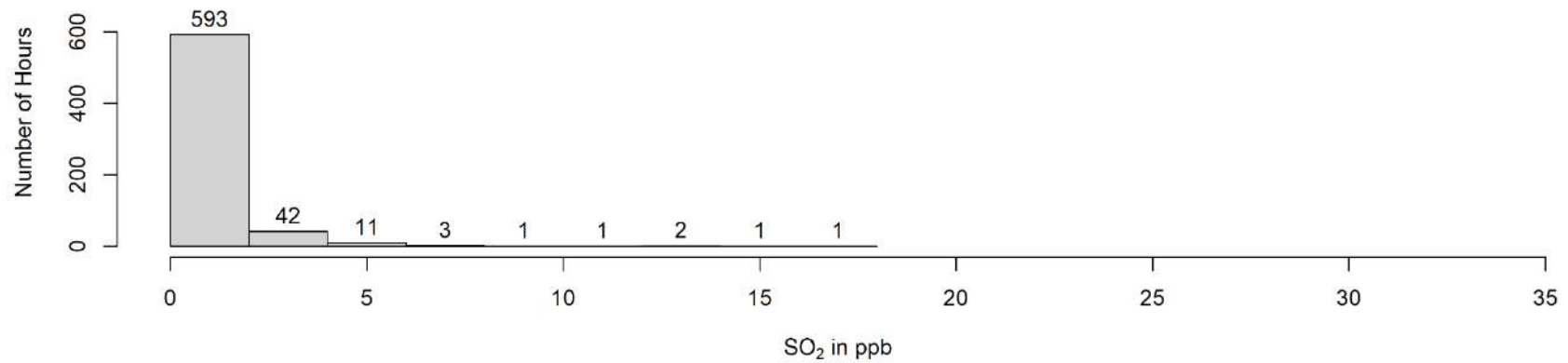
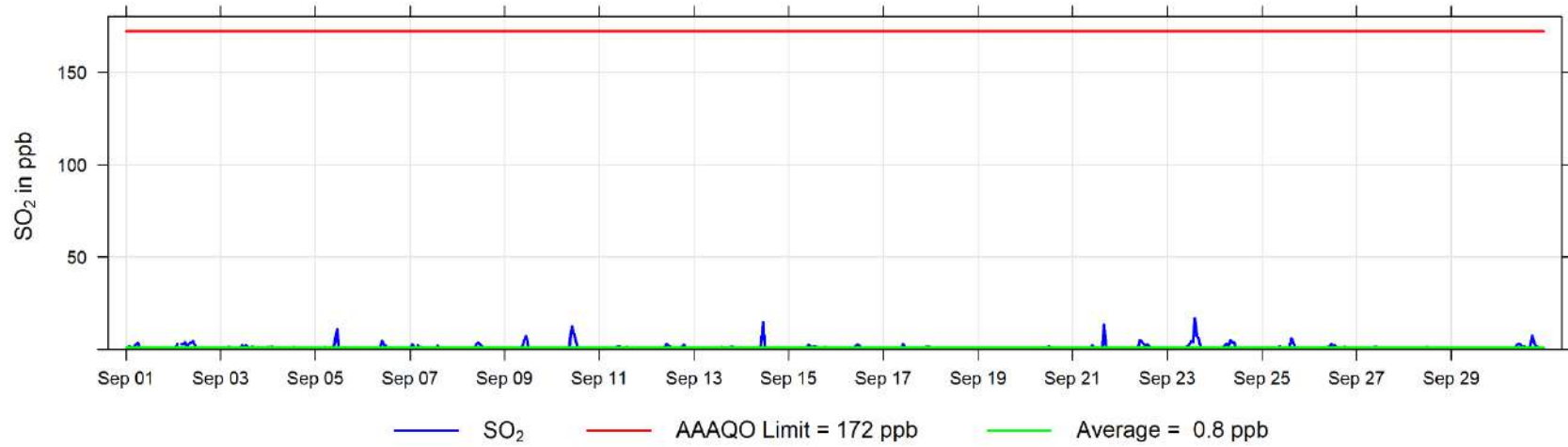
The following charts and histograms are not displayed for Donnelly Station due to shutdown

8 Poplar (Portable) Charts

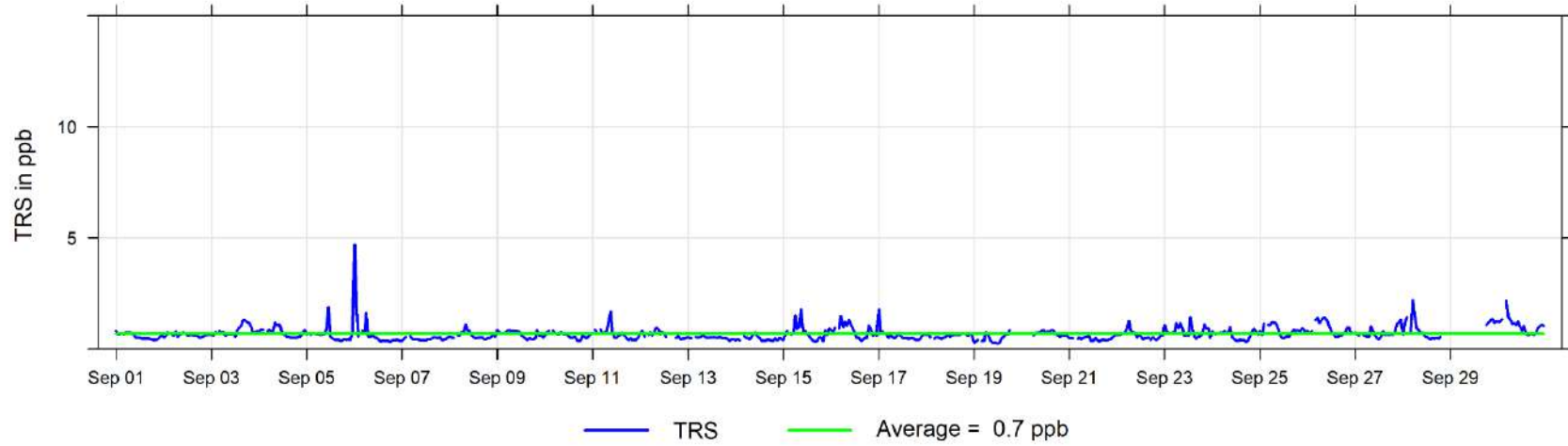
The following pages include the charts and histograms for Poplar Portable Station



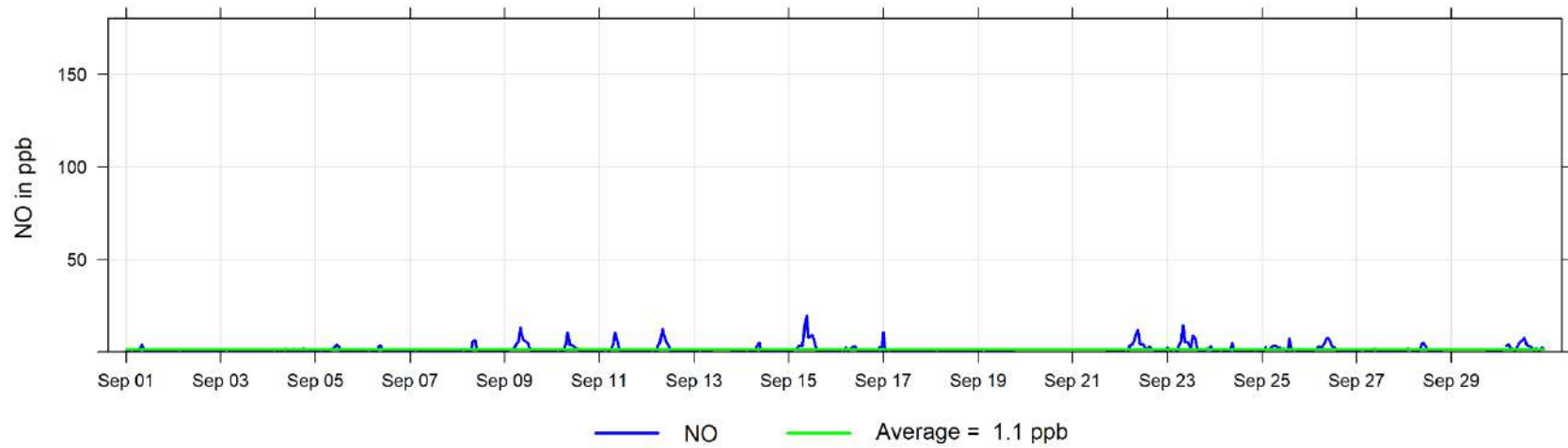
September 2023 Hourly Concentration Readings of SO₂ (in ppb) at Poplar



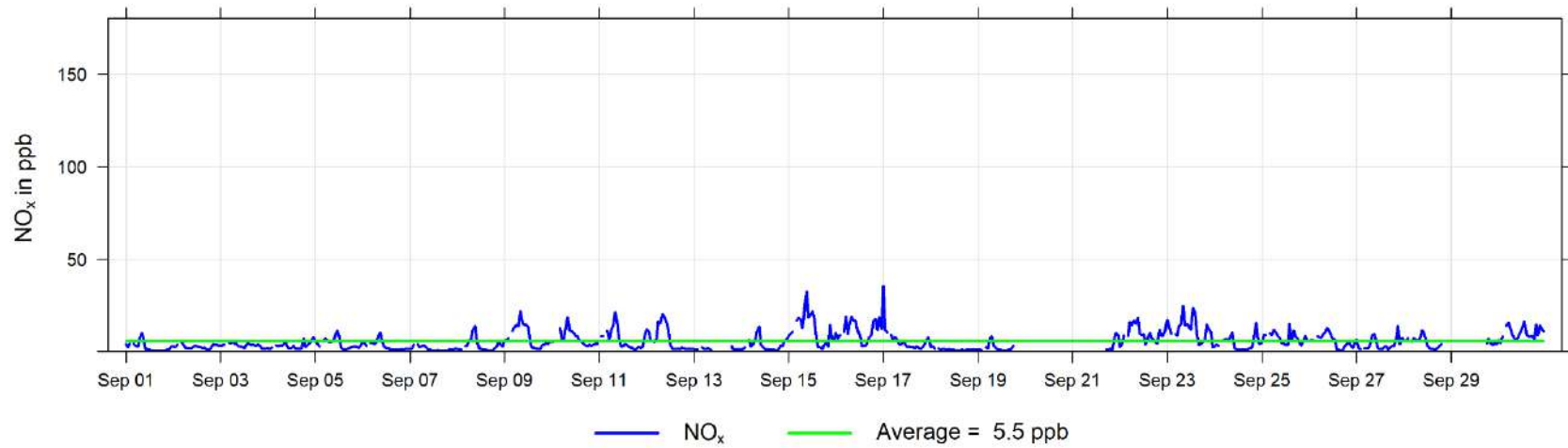
September 2023 Hourly Concentration Readings of TRS (in ppb) at Poplar



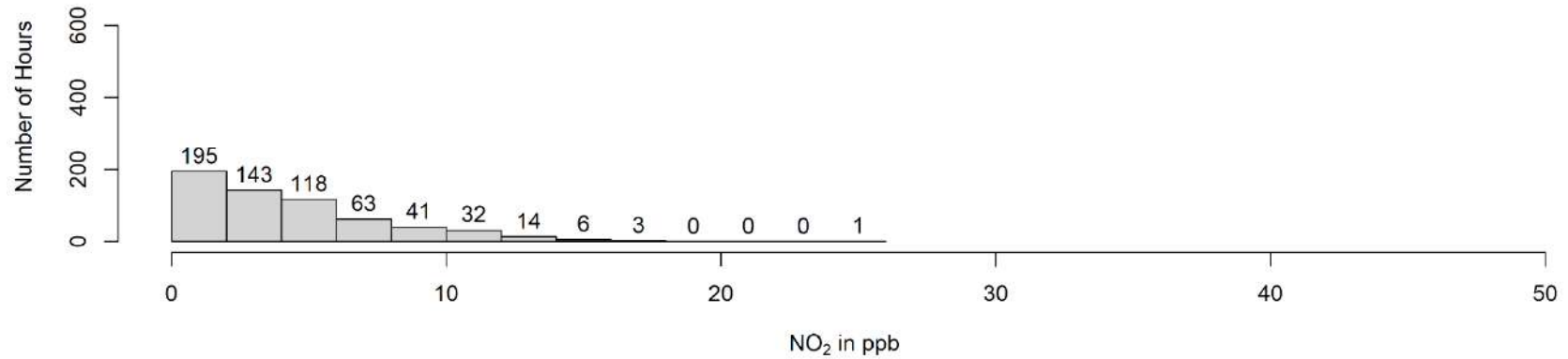
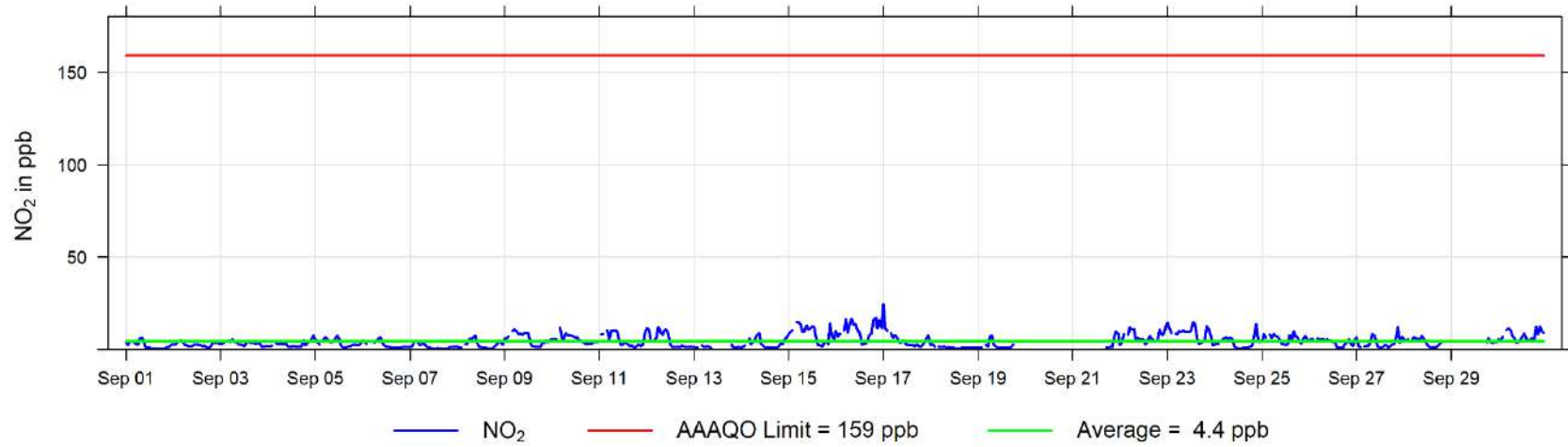
September 2023 Hourly Concentration Readings of NO (in ppb) at Poplar



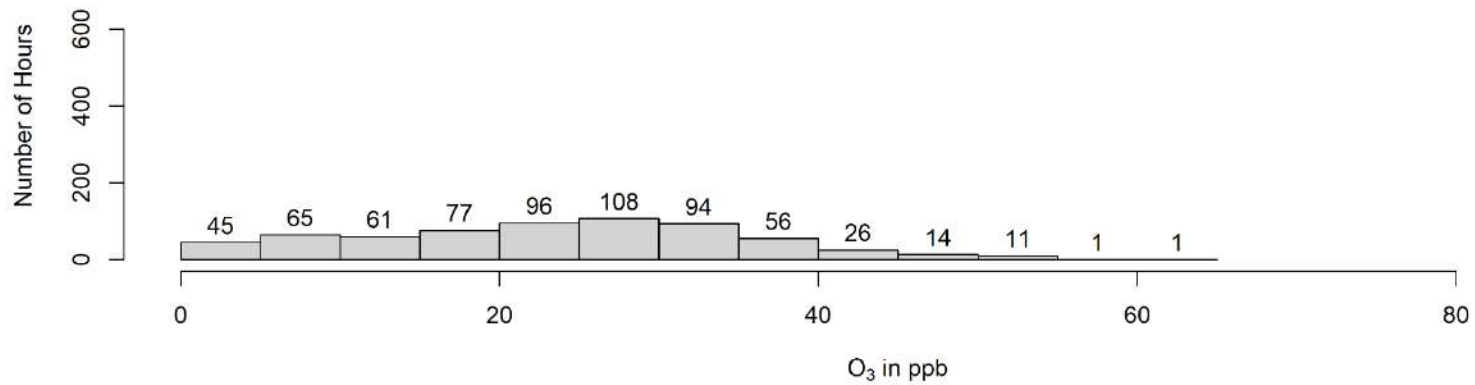
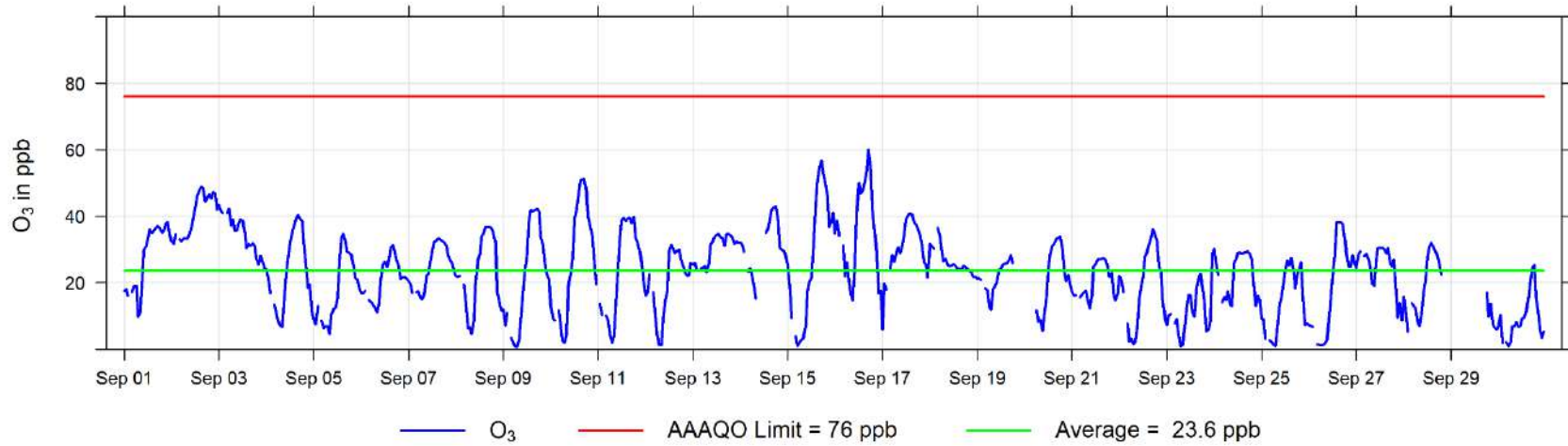
September 2023 Hourly Concentration Readings of NO_x (in ppb) at Poplar



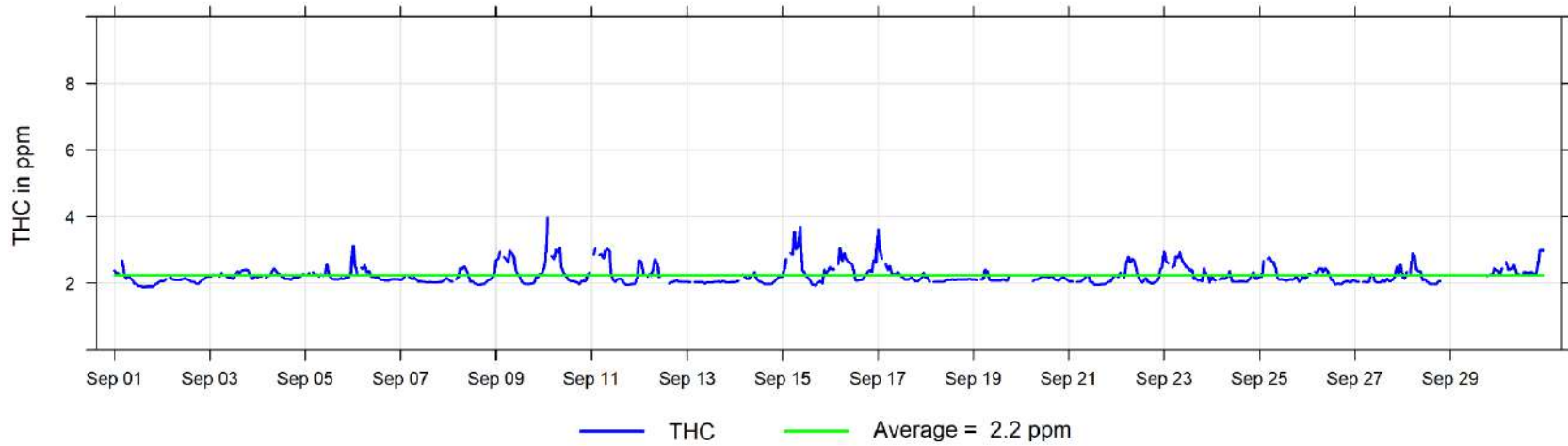
September 2023 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



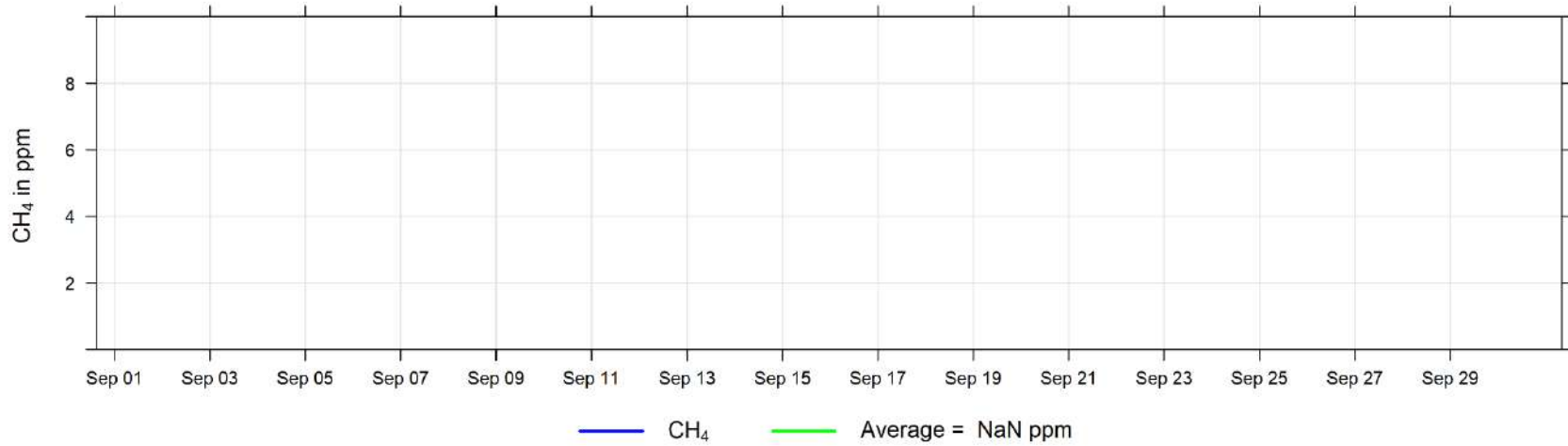
September 2023 Hourly Concentration Readings of O₃ (in ppb) at Poplar



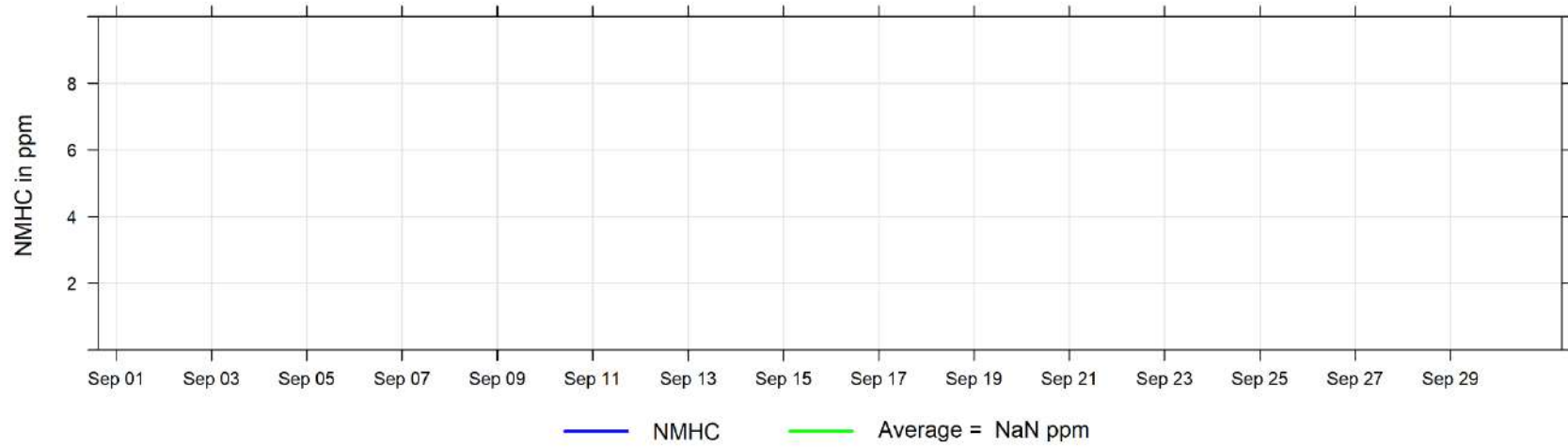
September 2023 Hourly Concentration Readings of THC (in ppm) at Poplar



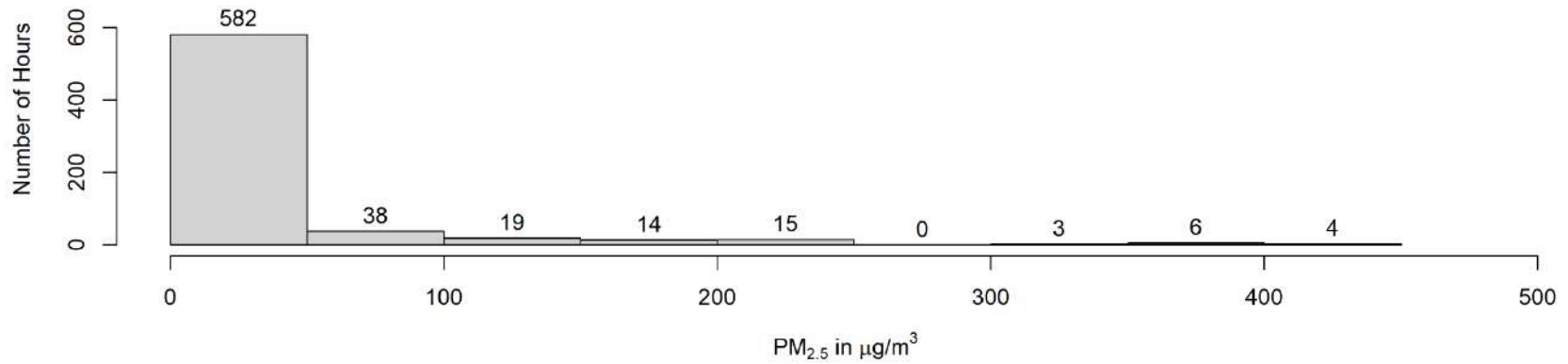
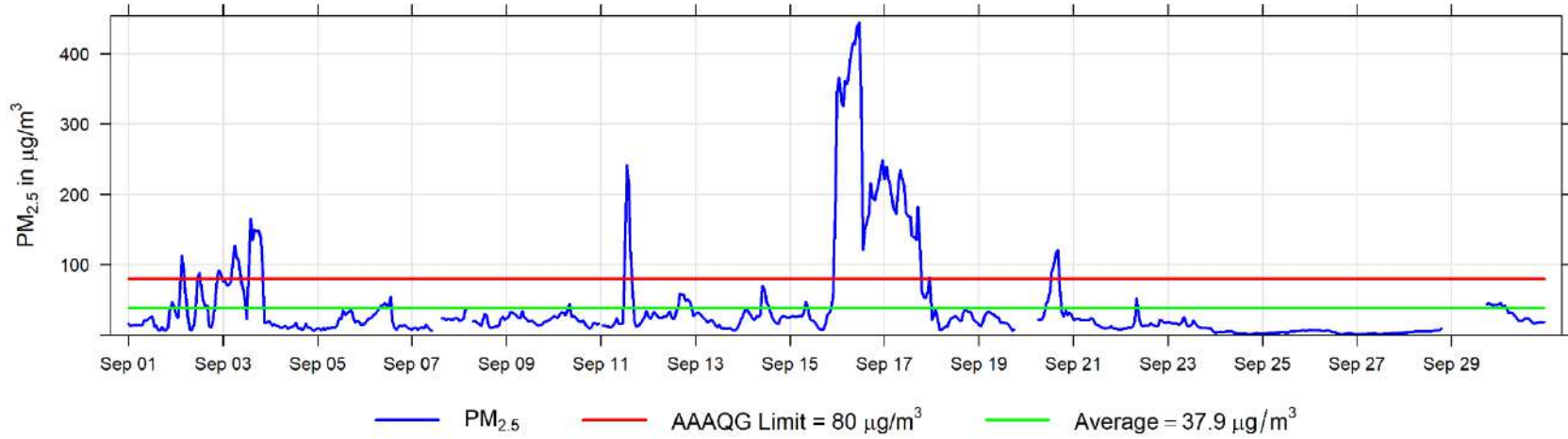
September 2023 Hourly Concentration Readings of CH₄ (in ppm) at Poplar



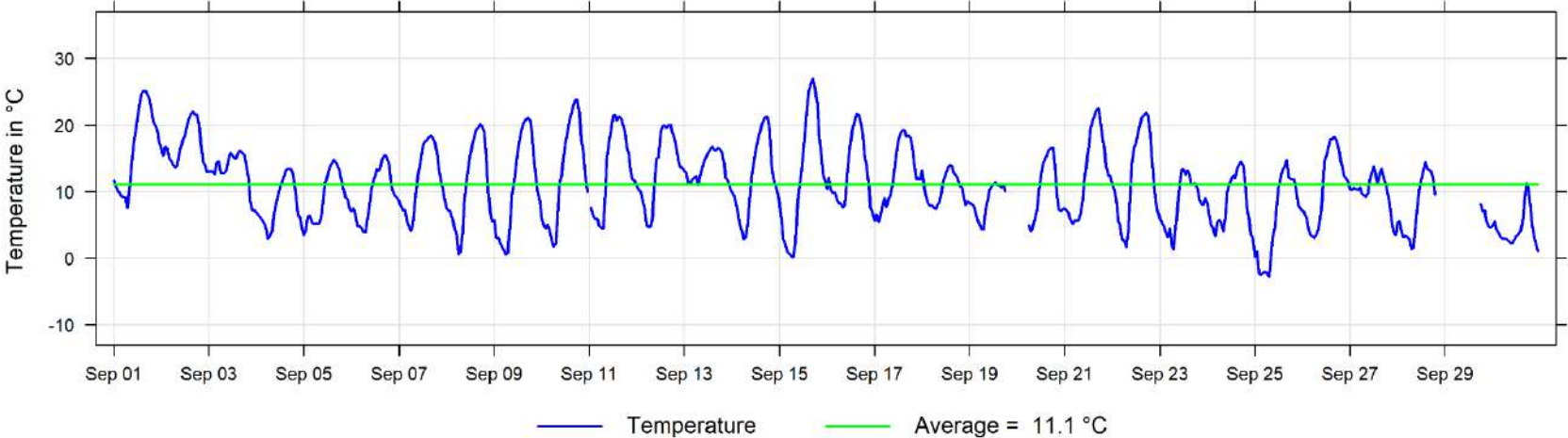
September 2023 Hourly Concentration Readings of NMHC (in ppm) at Poplar



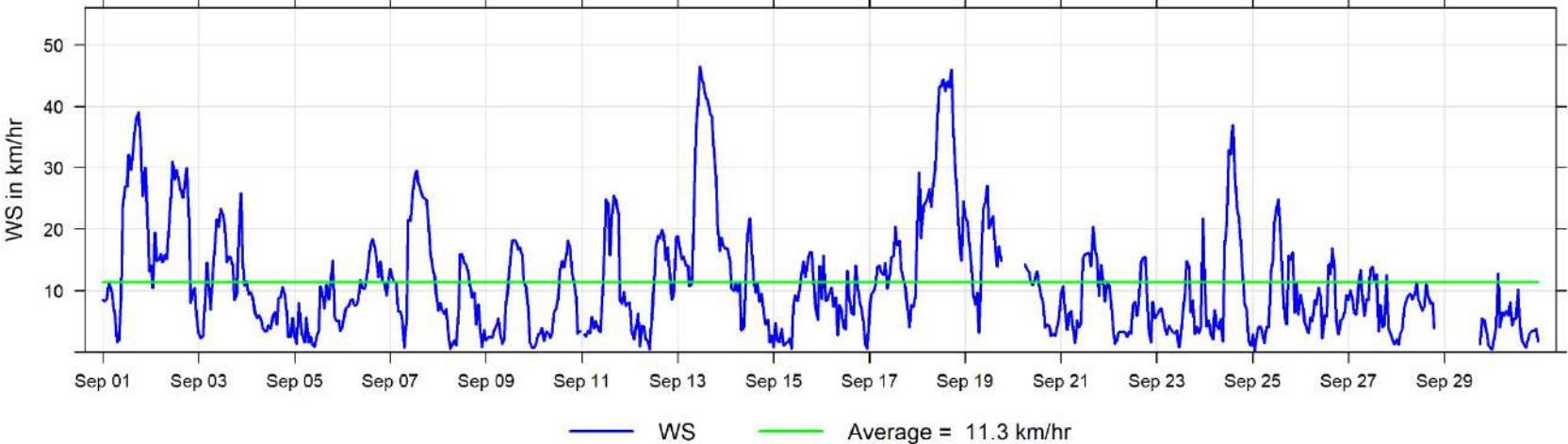
September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Poplar



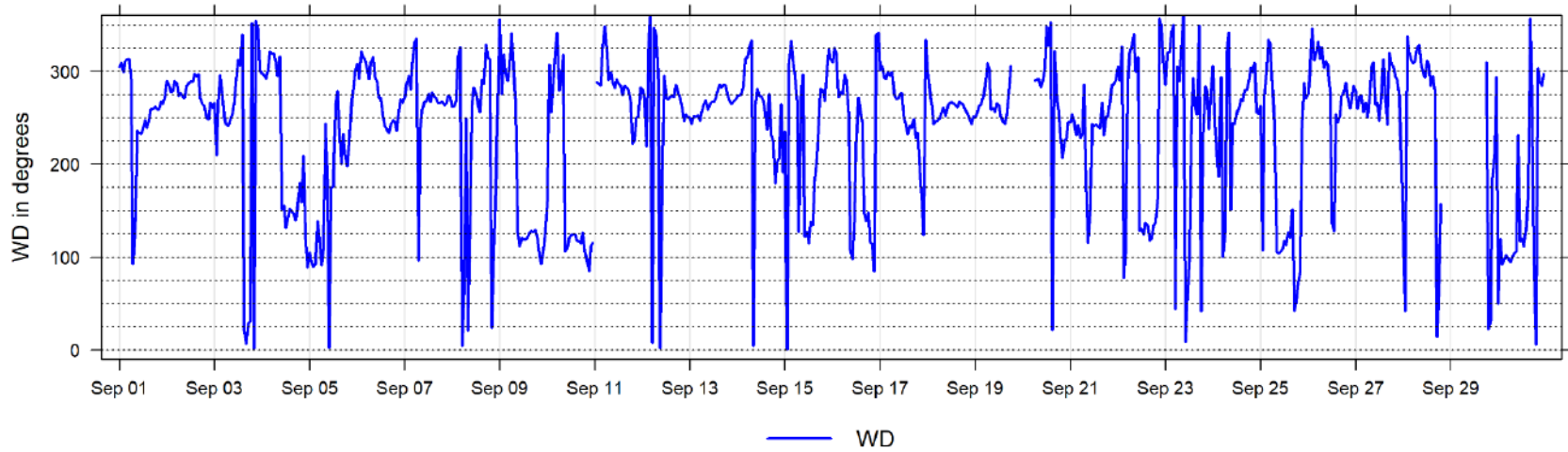
September 2023 Hourly Temperature Readings (in °C) at Poplar



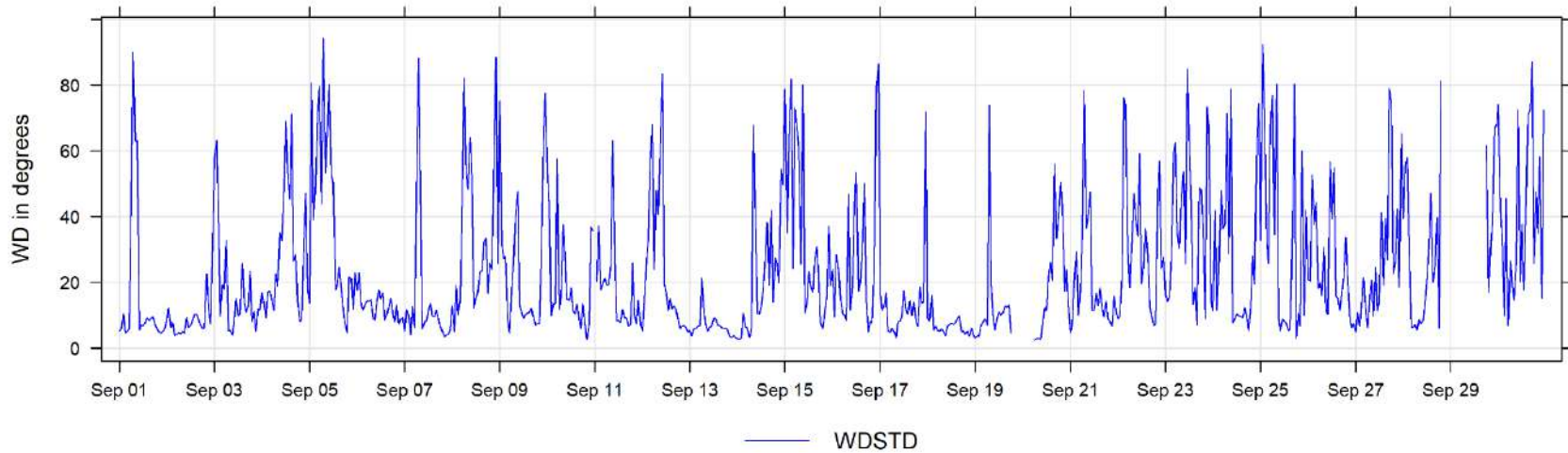
September 2023 Hourly Readings of Wind Speed (in km/hr) at Poplar

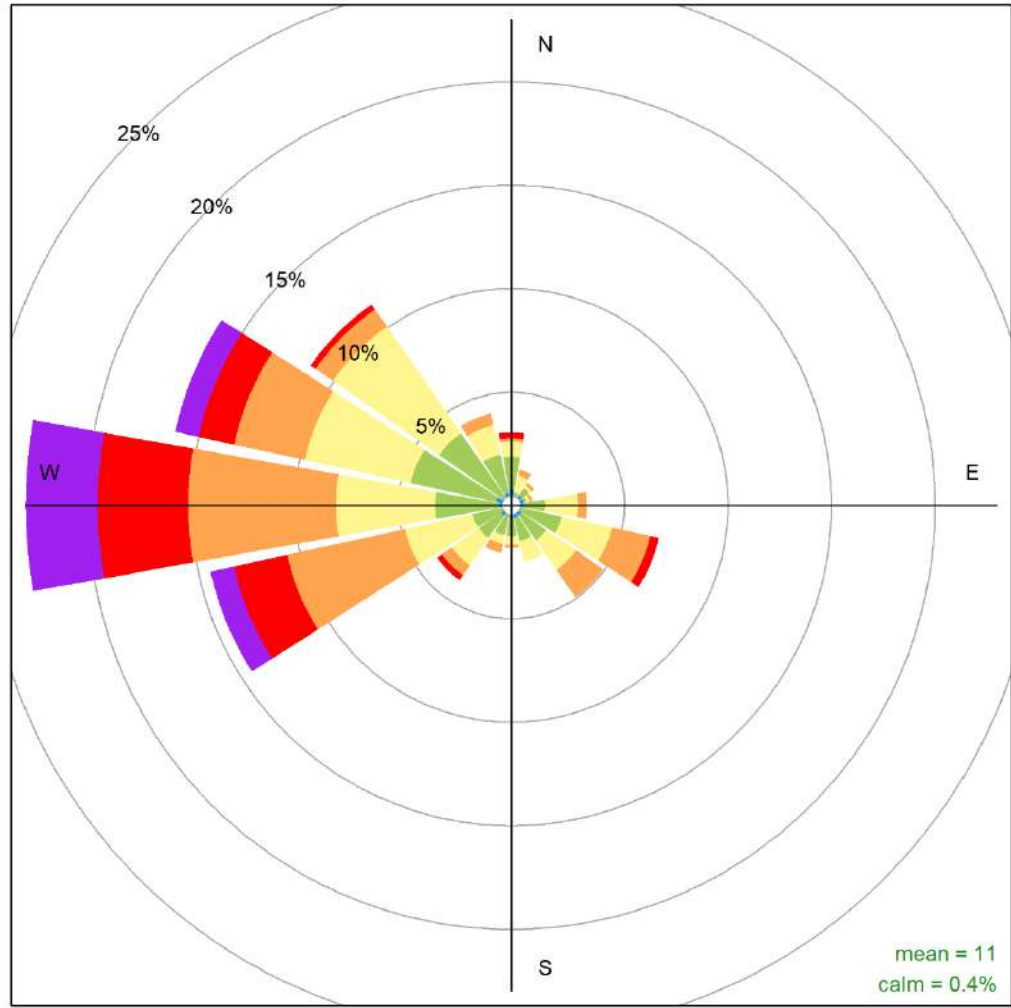


September 2023 Hourly Readings of Wind Direction (in degrees) at Poplar



September 2023 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Poplar

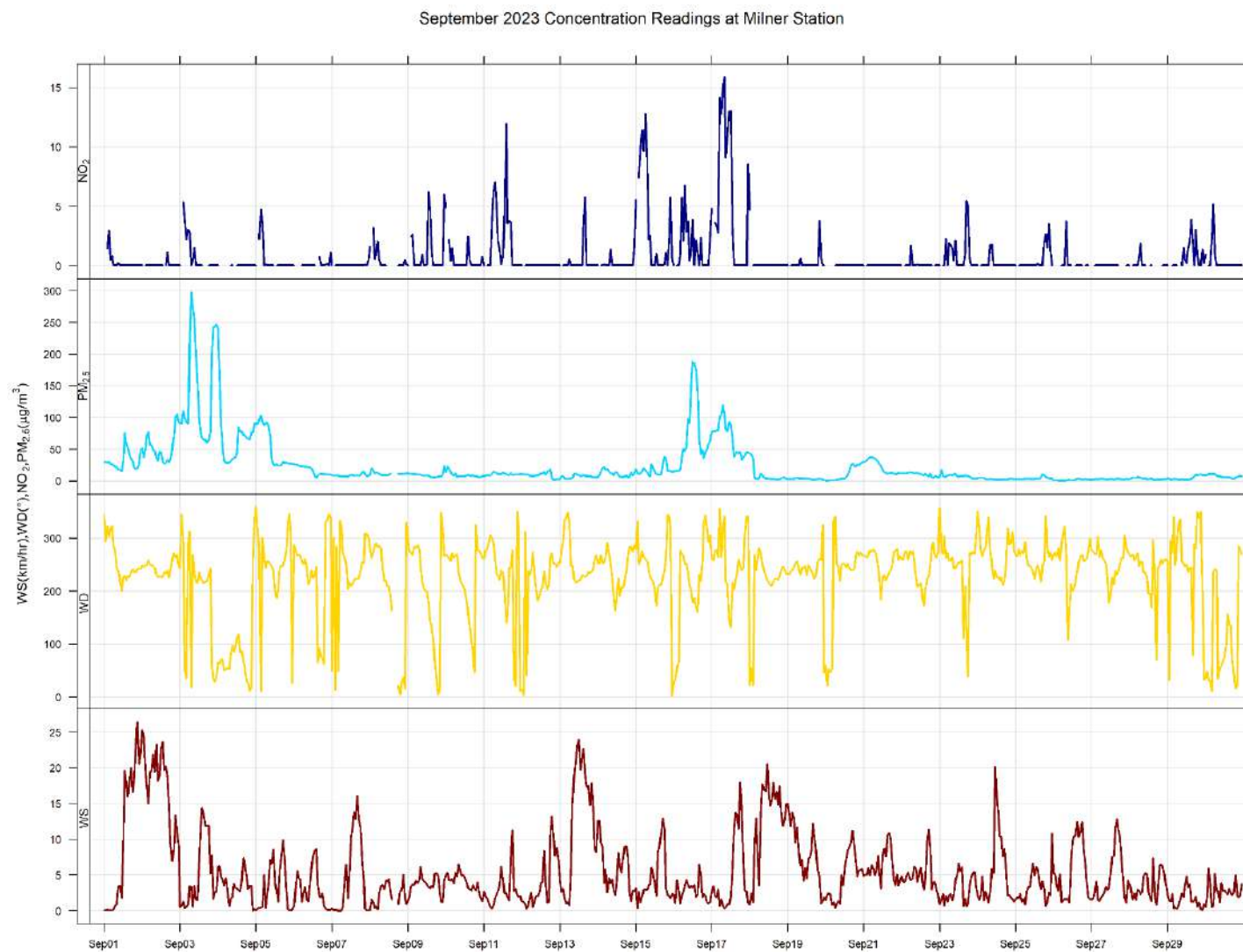




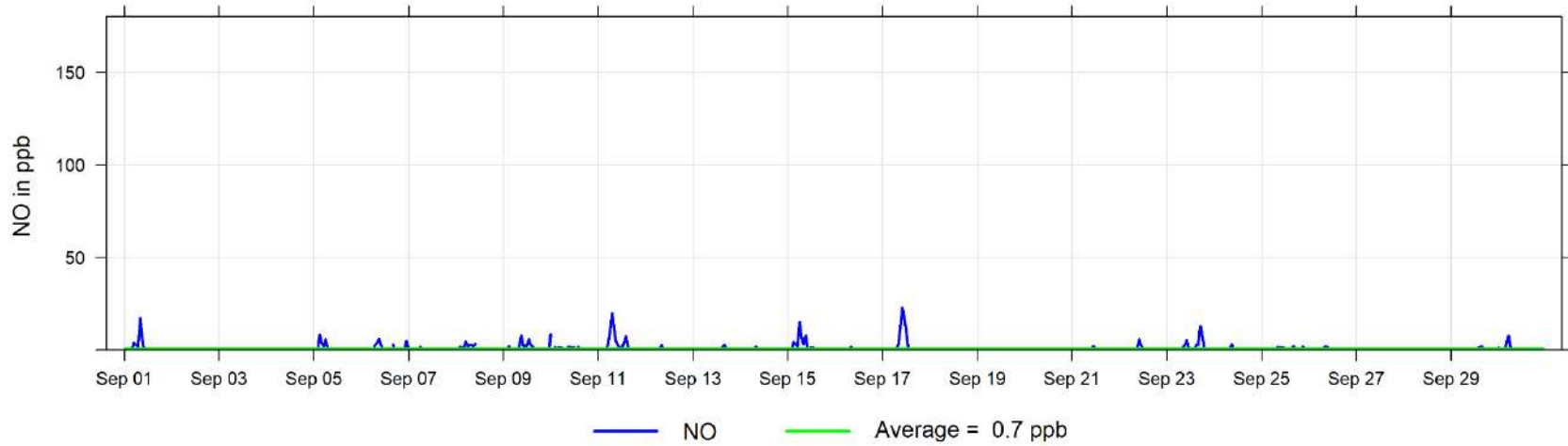
Poplar September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

9 Milner Charts

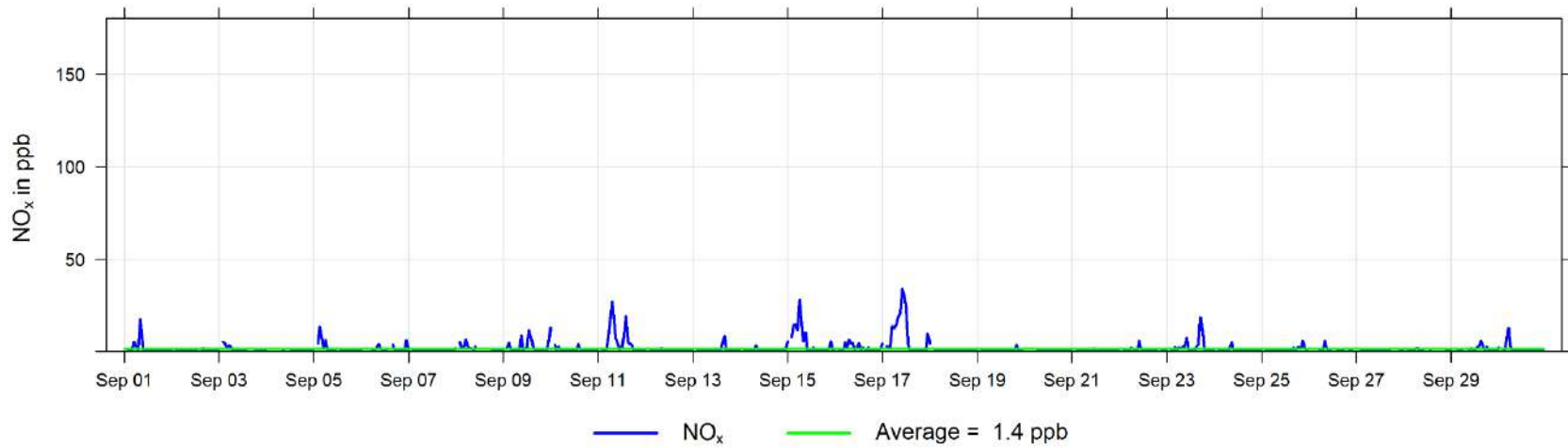
The following pages include the charts and histograms for Milner Station



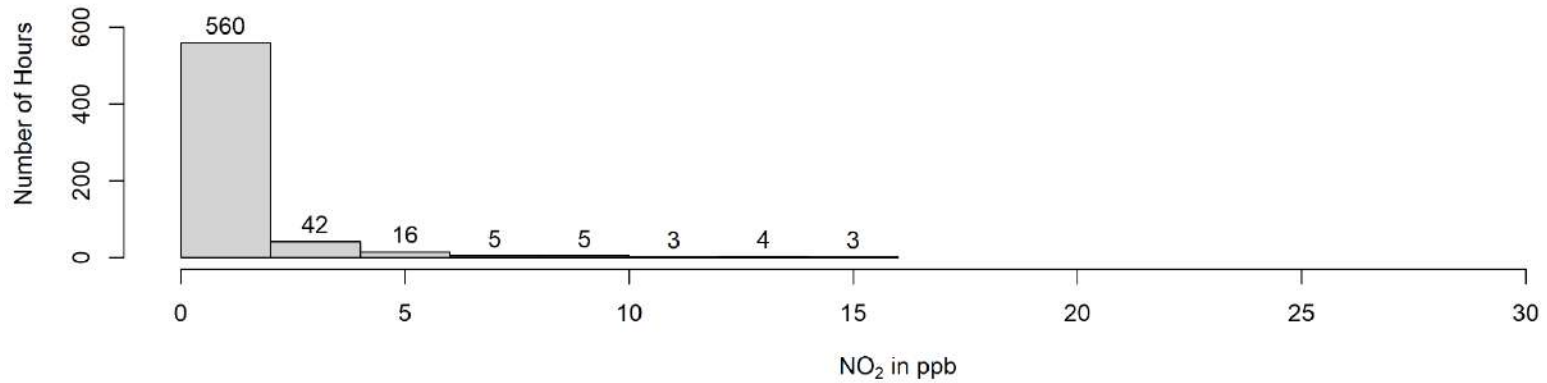
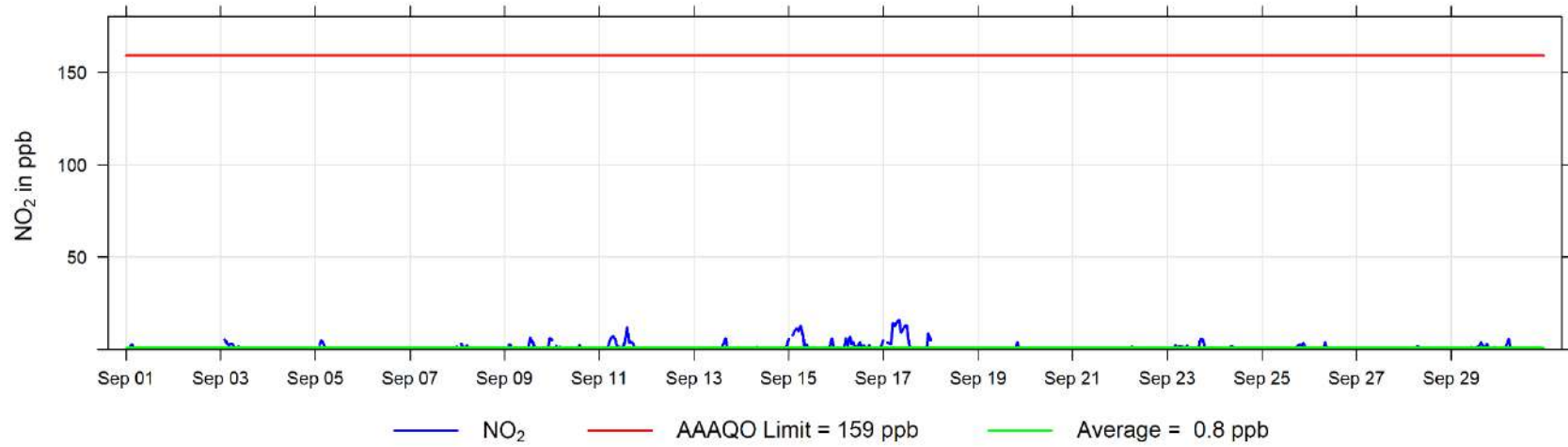
September 2023 Hourly Concentration Readings of NO (in ppb) at Milner



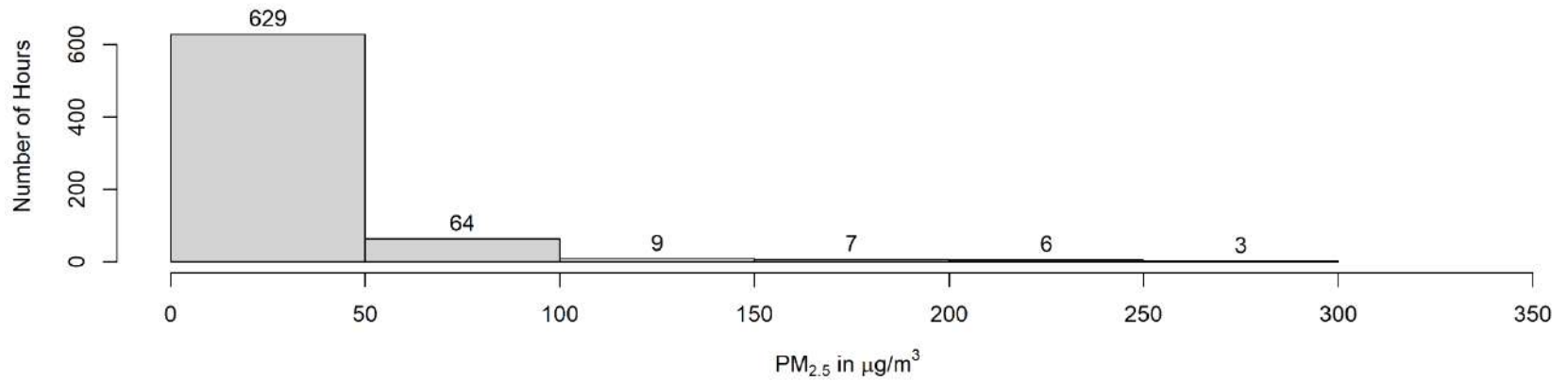
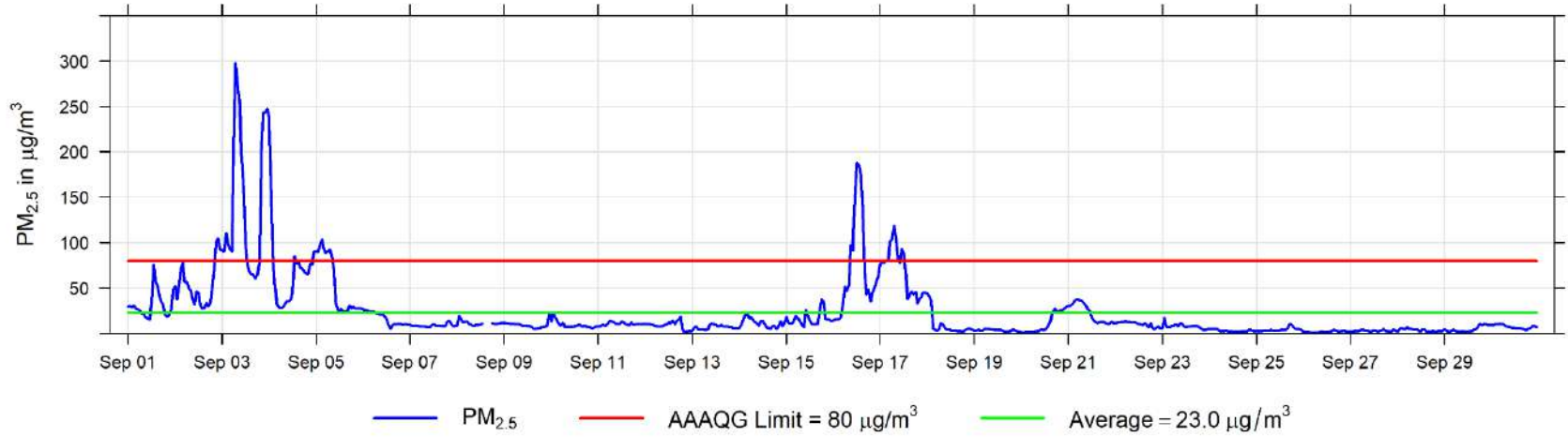
September 2023 Hourly Concentration Readings of NO_x (in ppb) at Milner



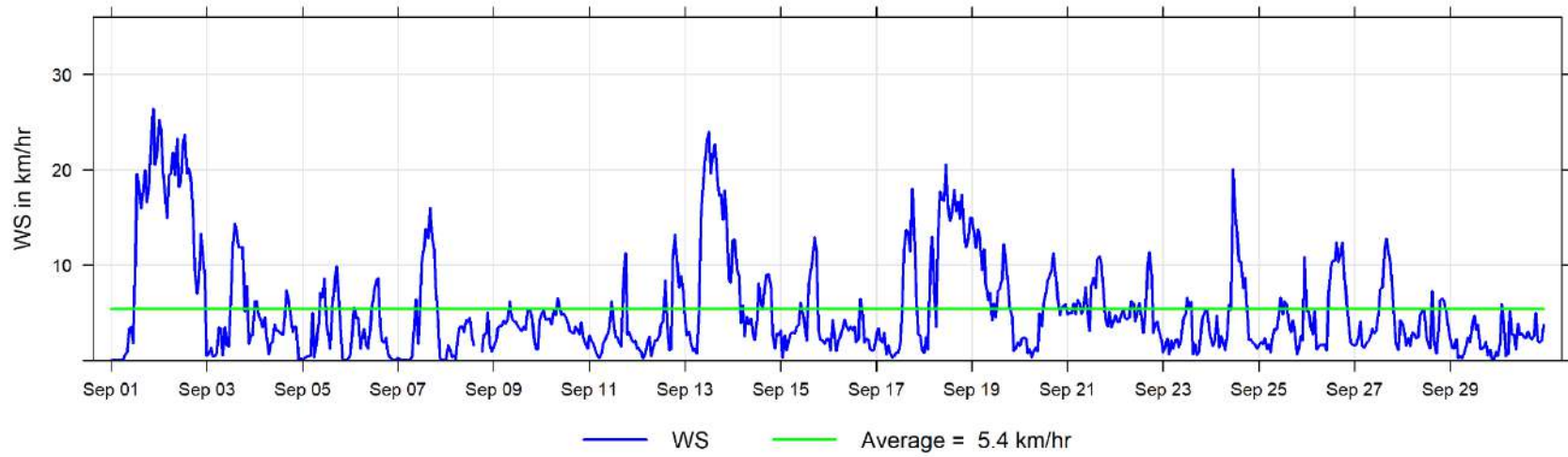
September 2023 Hourly Concentration Readings of NO₂ (in ppb) at Milner



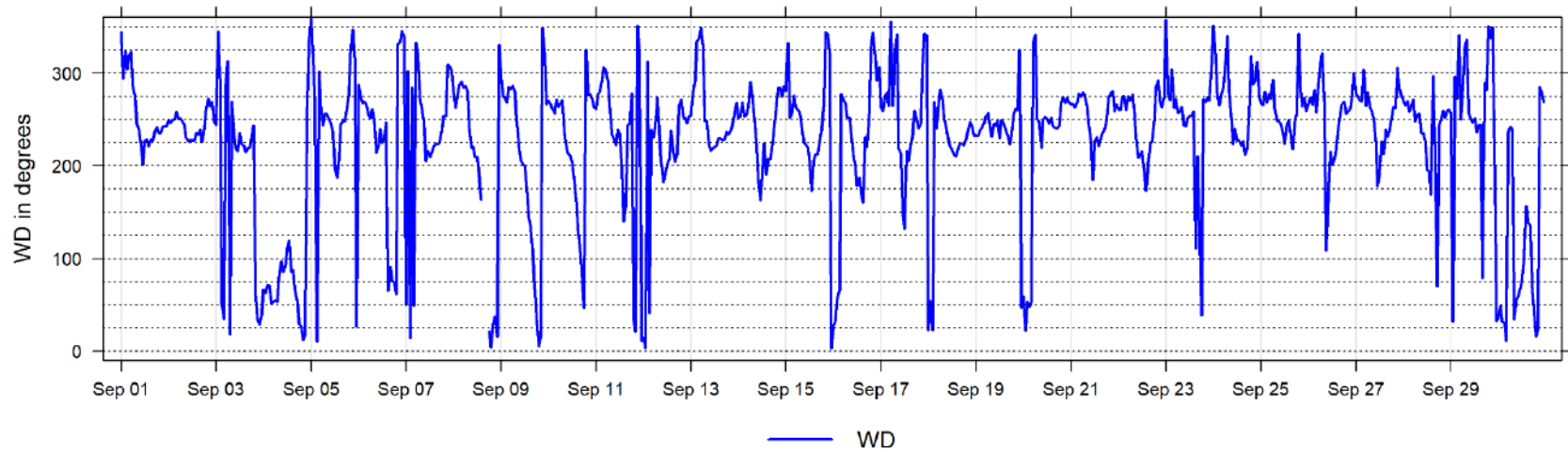
September 2023 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner

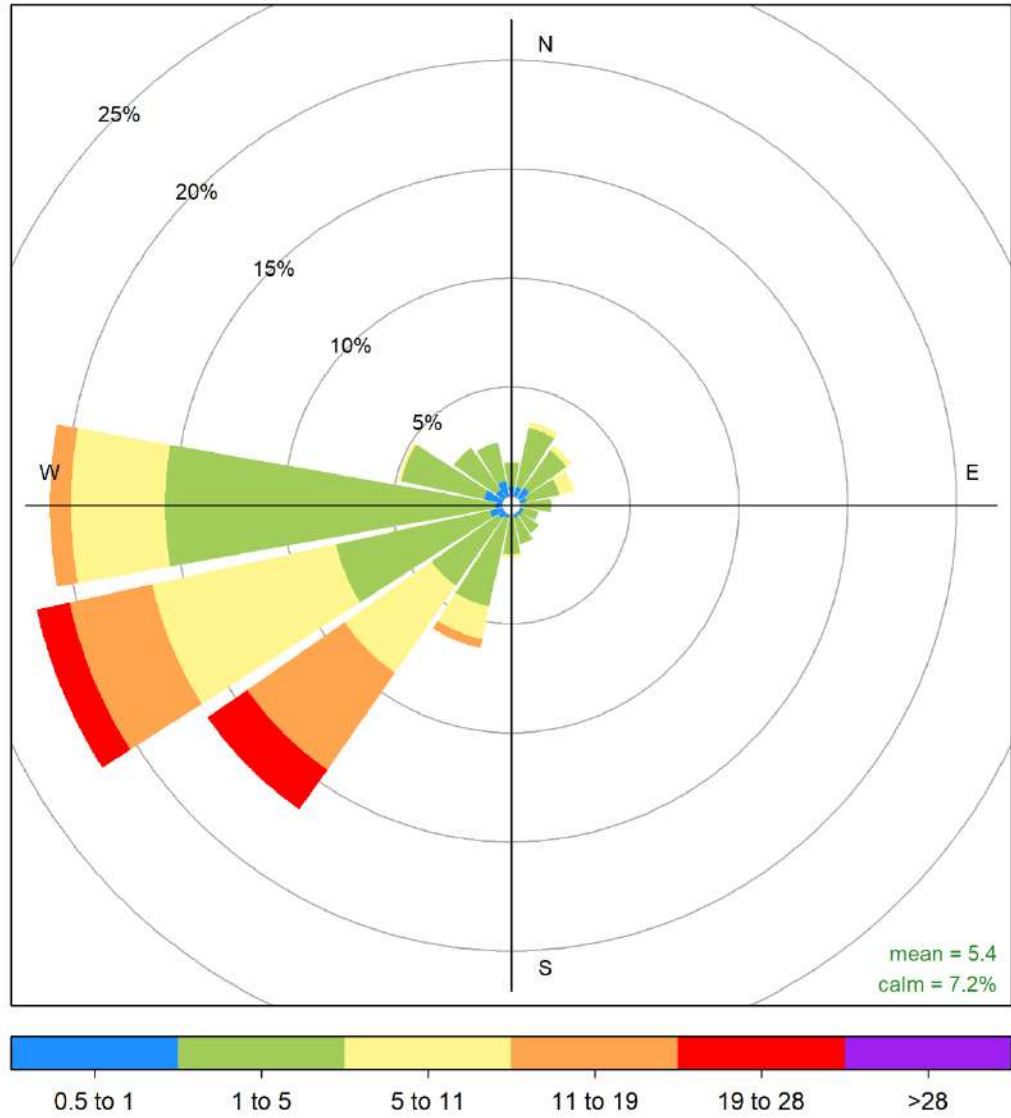


September 2023 Hourly Readings of Wind Speed (in km/hr) at Milner



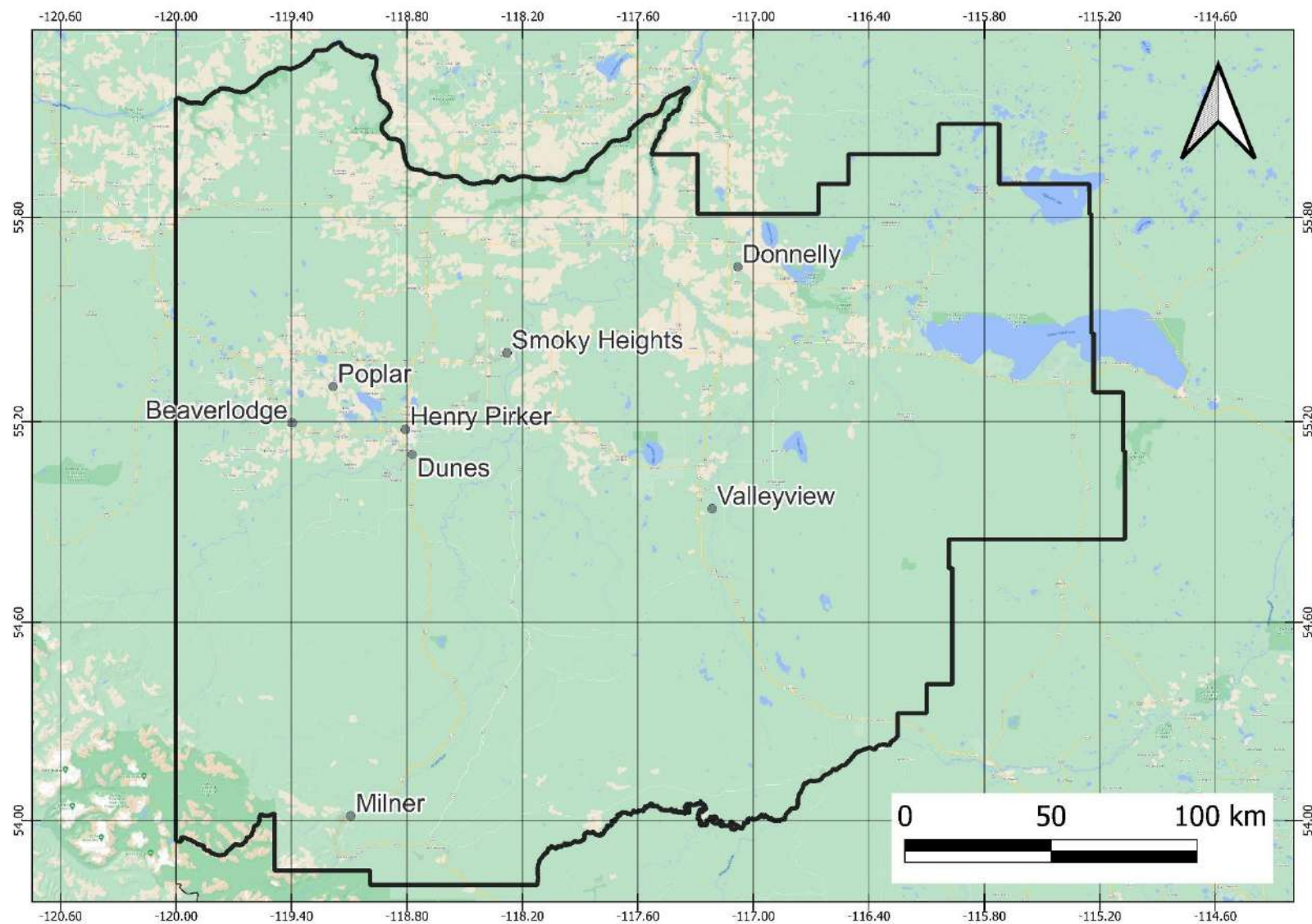
September 2023 Hourly Readings of Wind Direction (in degrees) at Milner



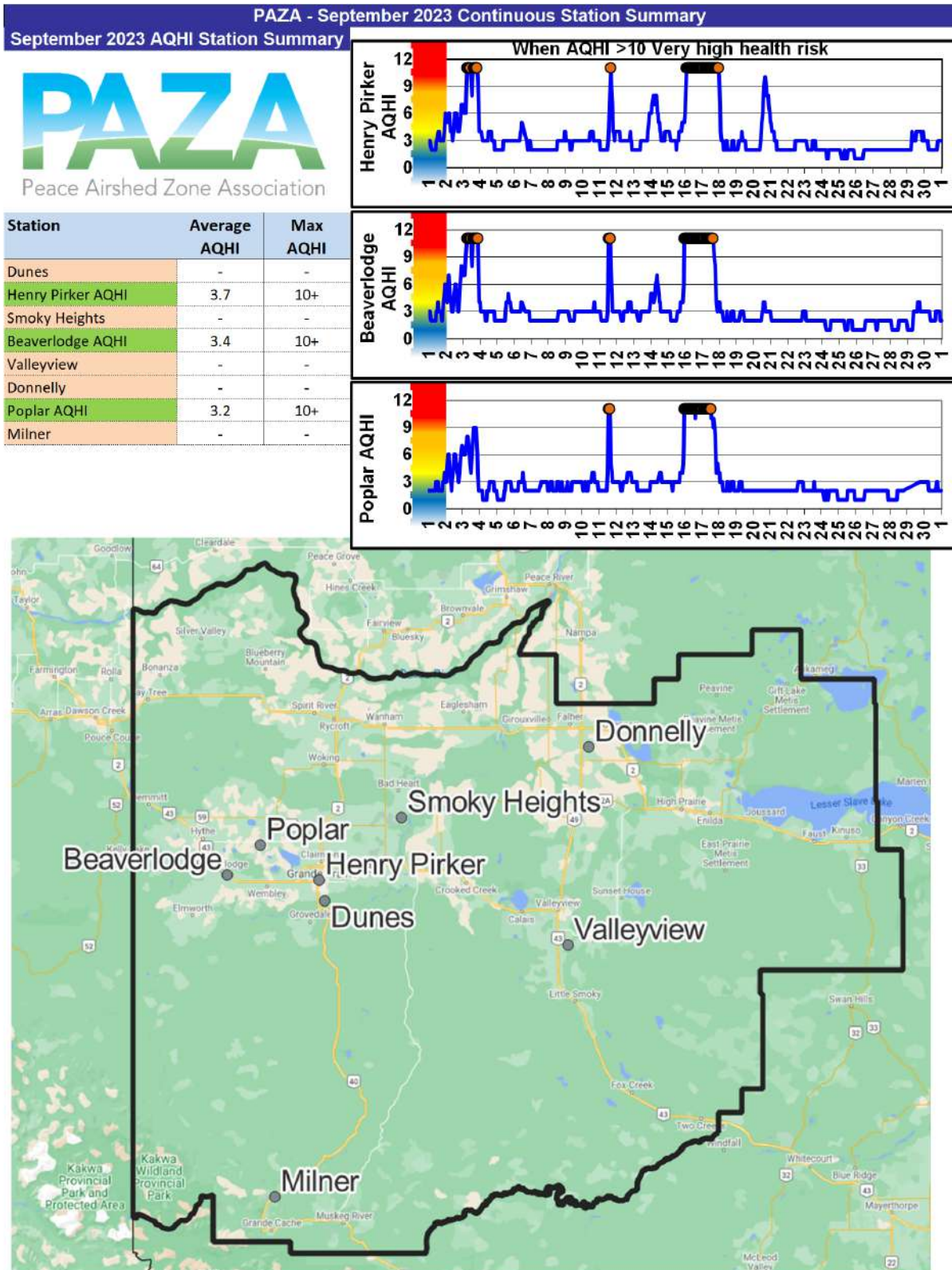


Milner September 2023 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

10 Concentration Summaries and Roses for PAZA

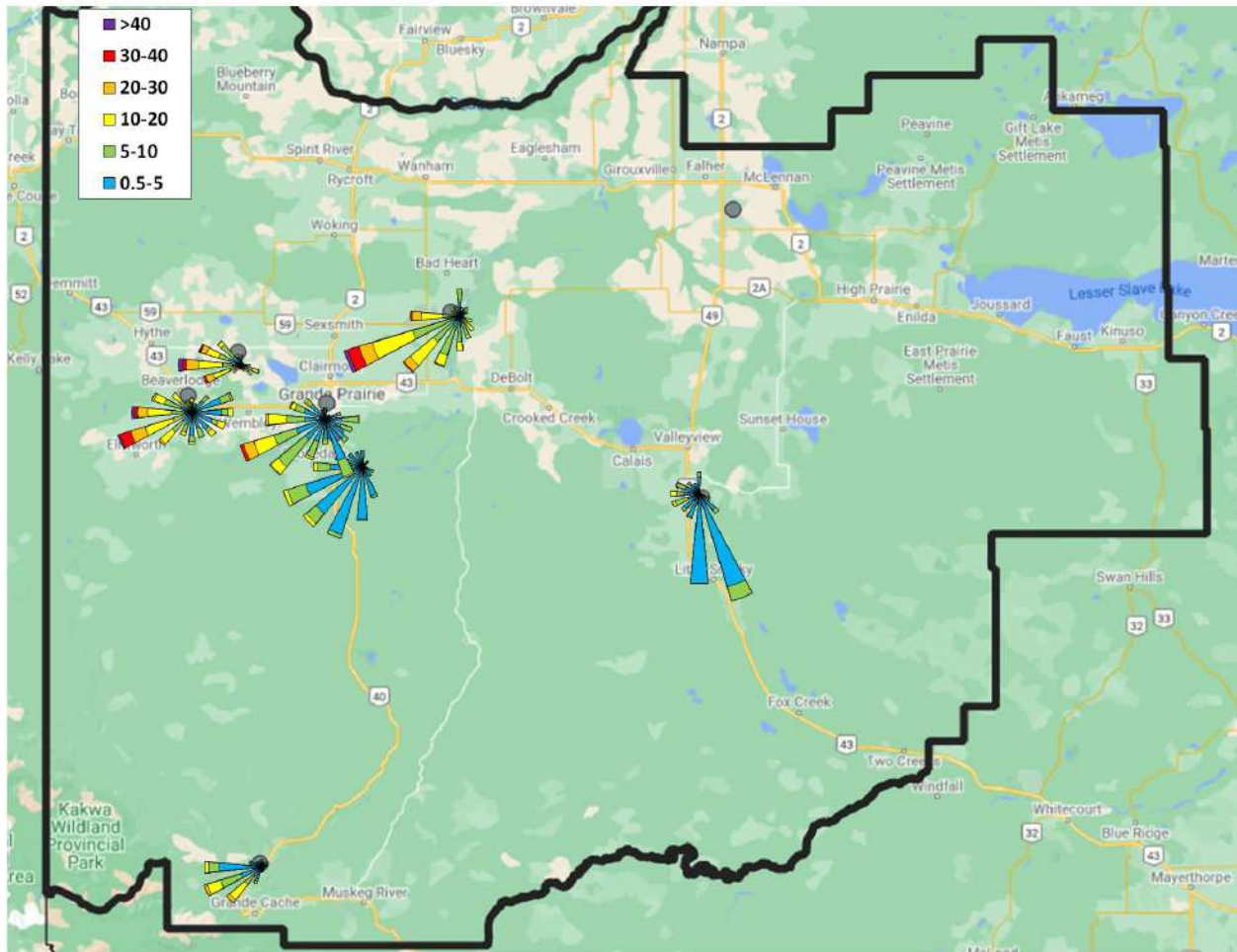


10.1 Air Quality Health Index (AQHI) Plots



10.2 Wind Roses

Wind Roses in km/hr

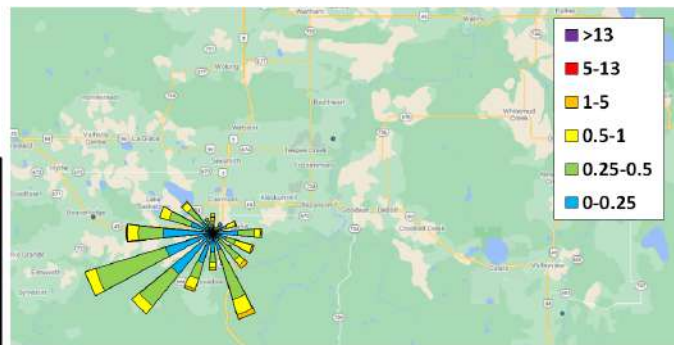
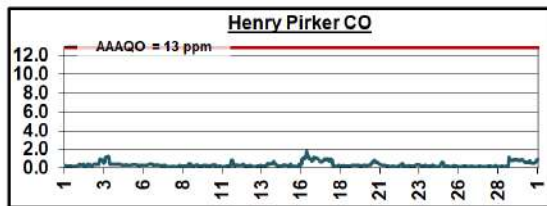


10.3 Carbon Monoxide (CO) Plots

September 2023 CO Station Summary

Station	Avg (ppm)	Max (ppm)
Henry Pirker CO	0.38	1.77

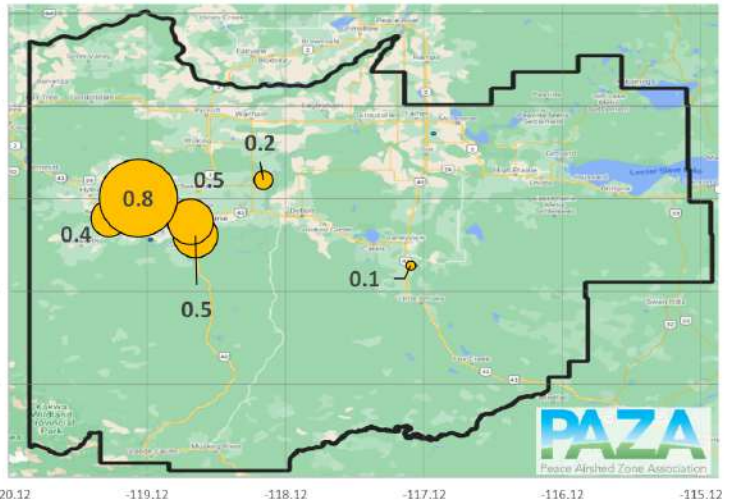
Carbon Monoxide in ppm



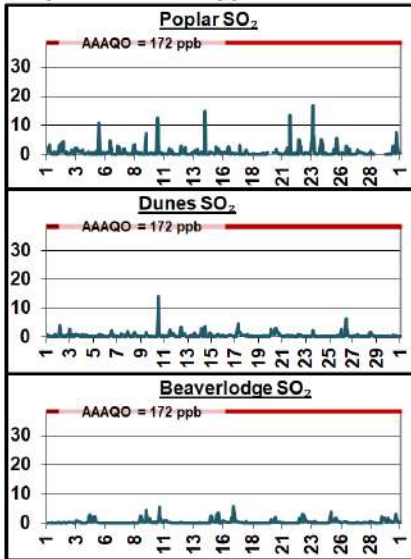
10.4 Sulphur Dioxide (SO₂) Plots

September 2023 SO₂ Station Summary

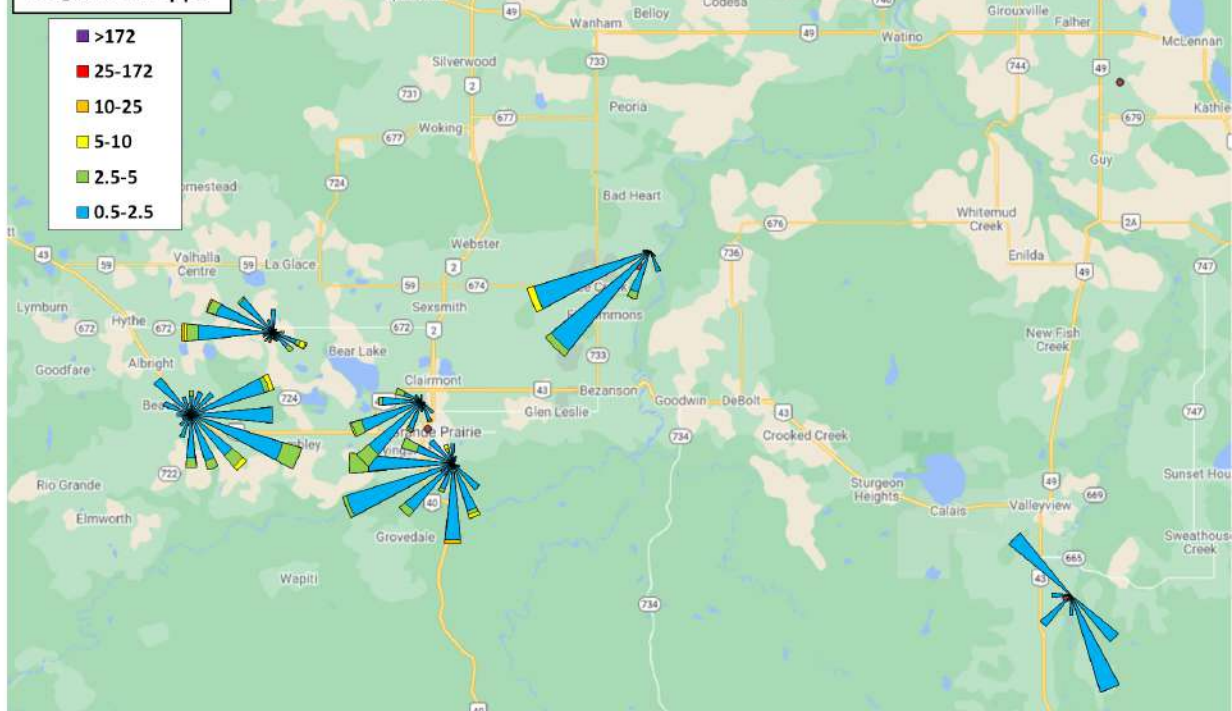
Station	Avg (ppb)	Max (ppb)
Dunes SO ₂	0.5	13.9
Henry Pirkler SO ₂	0.5	6.3
Smoky Heights SO ₂	0.2	6.4
Beaverlodge SO ₂	0.4	5.7
Valleyview SO ₂	0.1	1.0
Donnelly SO ₂	-	-
Poplar SO ₂	0.8	16.8
Milner SO ₂	-	-



Sulphur Dioxide in ppb



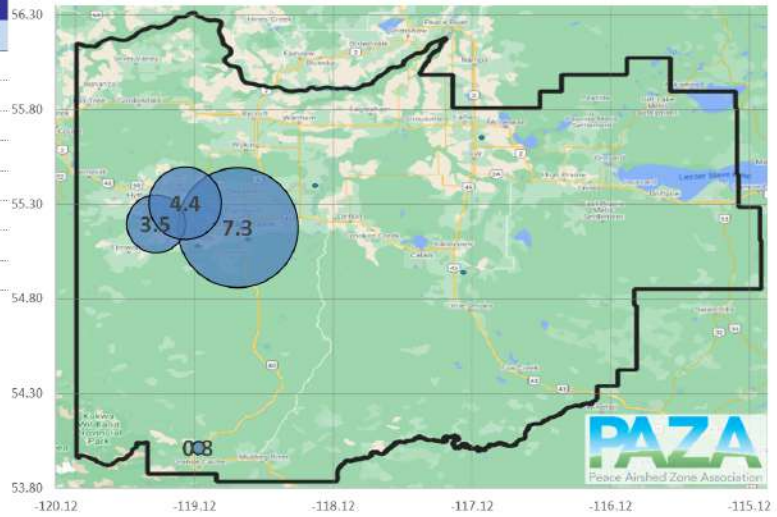
SO₂ Roses in ppb



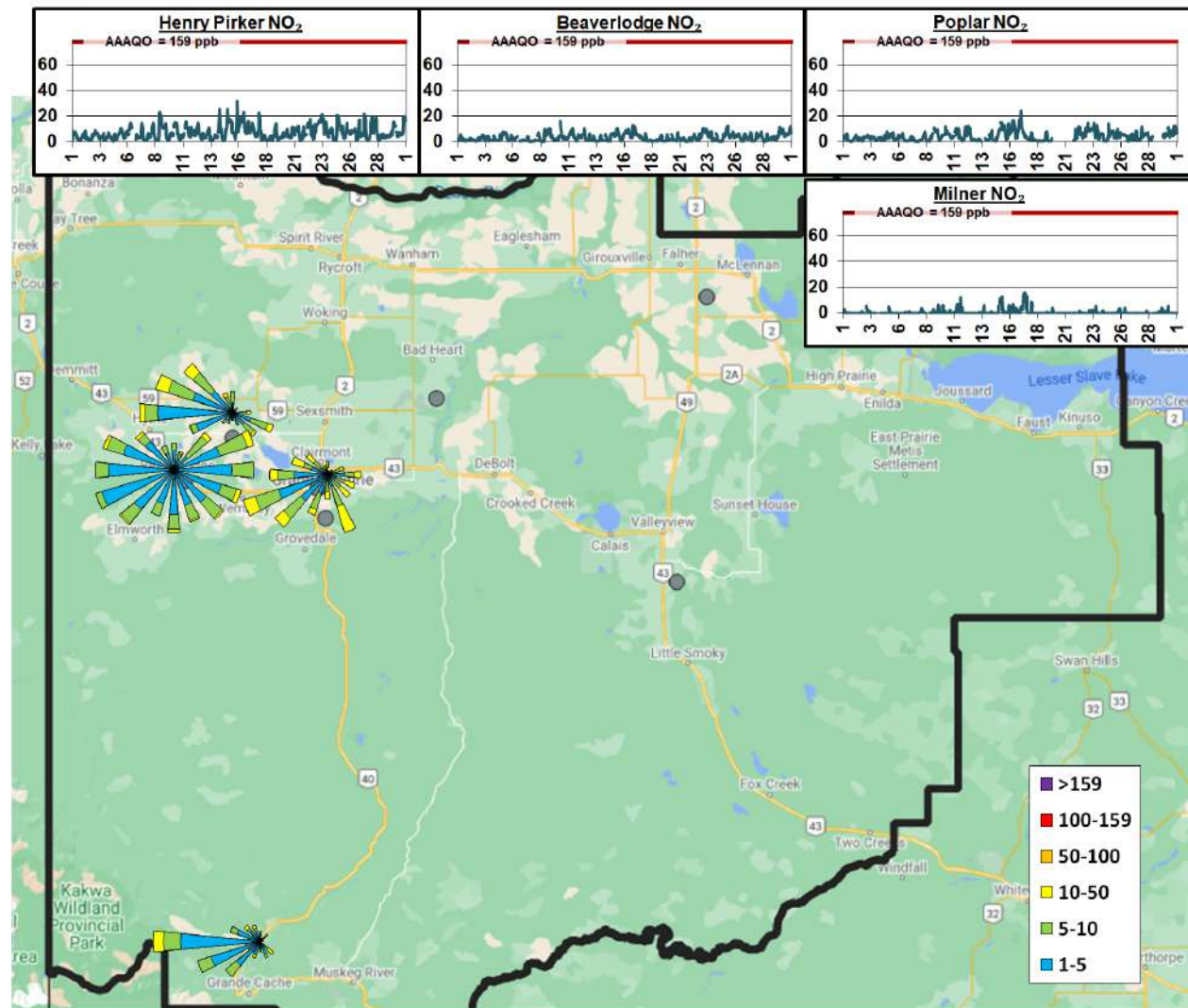
10.5 Nitrogen Dioxide (NO₂) Plots

September 2023 NO₂ Station Summary

Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	7.3	31.2
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	3.5	15.9
Valleyview NO ₂	-	-
Donnelly NO ₂	-	-
Poplar NO ₂	4.4	24.3
Milner NO ₂	0.8	15.9



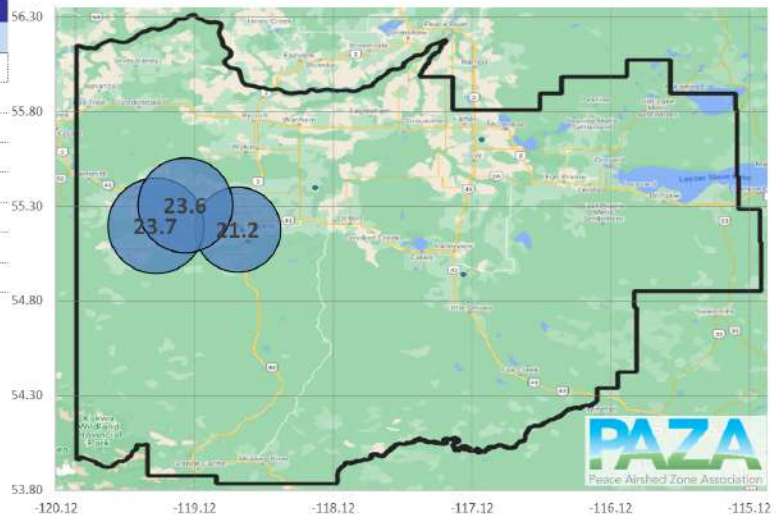
Nitrogen Dioxide in ppb



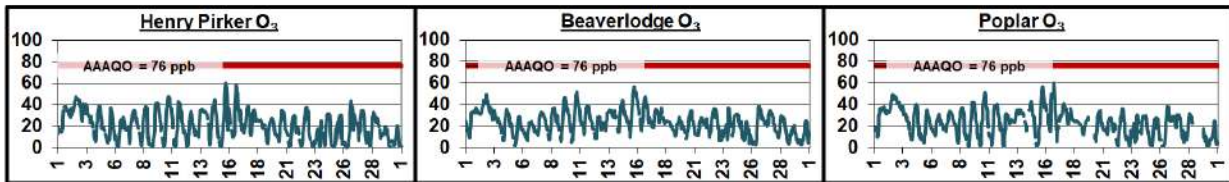
10.6 Ozone (O₃) Plots

September 2023 O₃ Station Summary

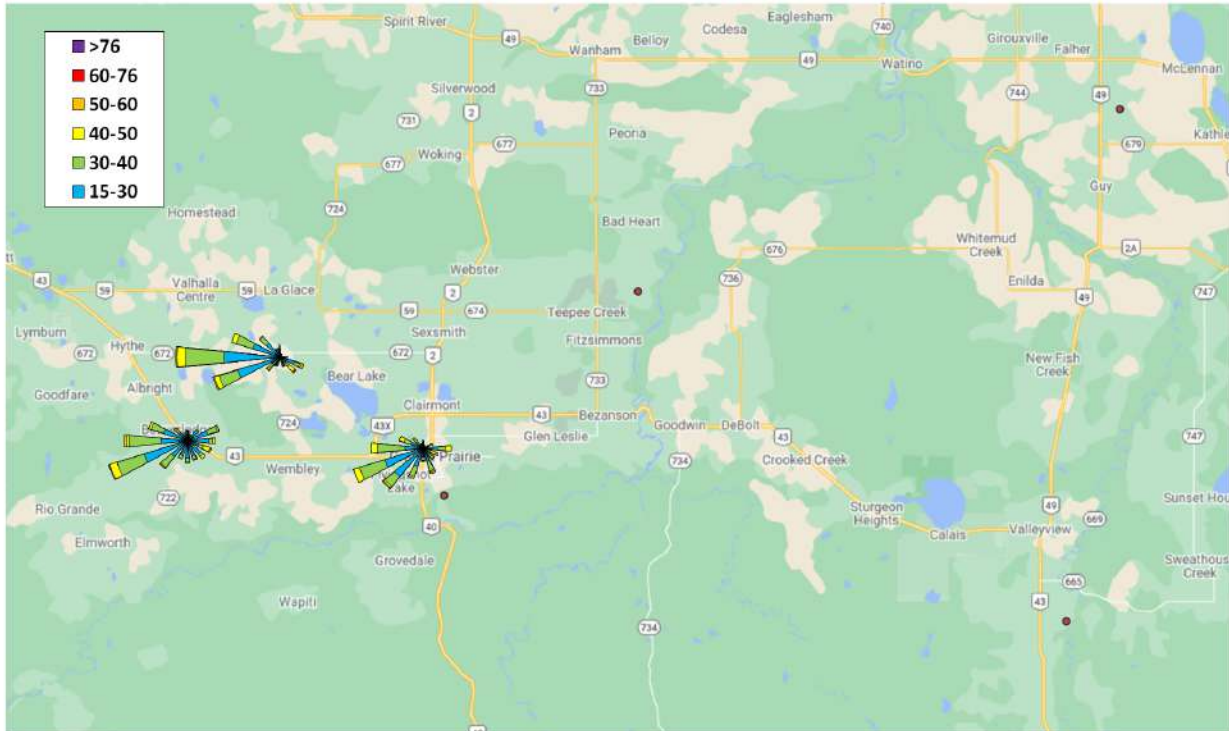
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirker O ₃	21.2	60.1
Smoky Heights O ₃	-	-
Beaverlodge O ₃	23.7	56.5
Valleyview O ₃	-	-
Donnelly O ₃	-	-
Poplar O ₃	23.6	60.1
Milner O ₃	-	-



Ozone in ppb



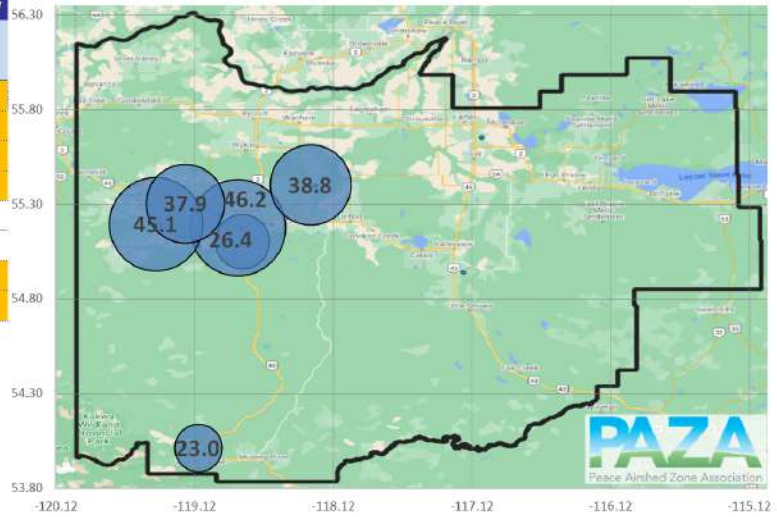
O₃ Roses in ppb



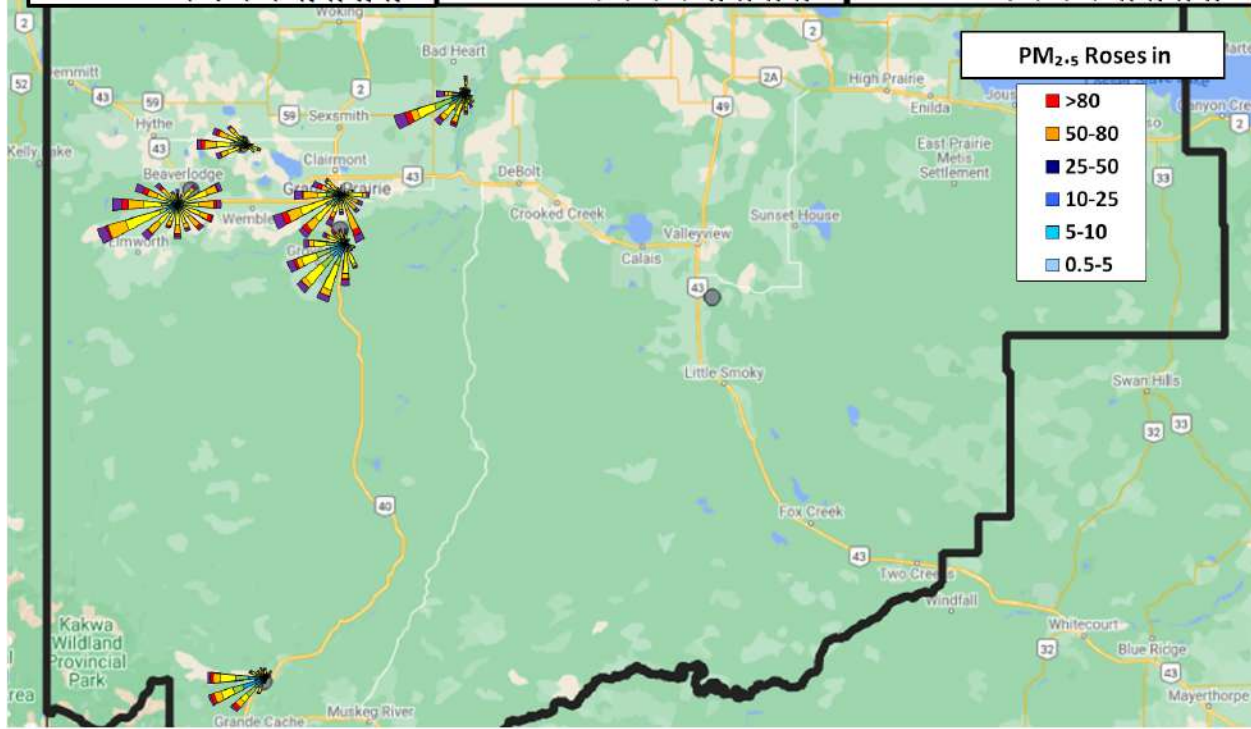
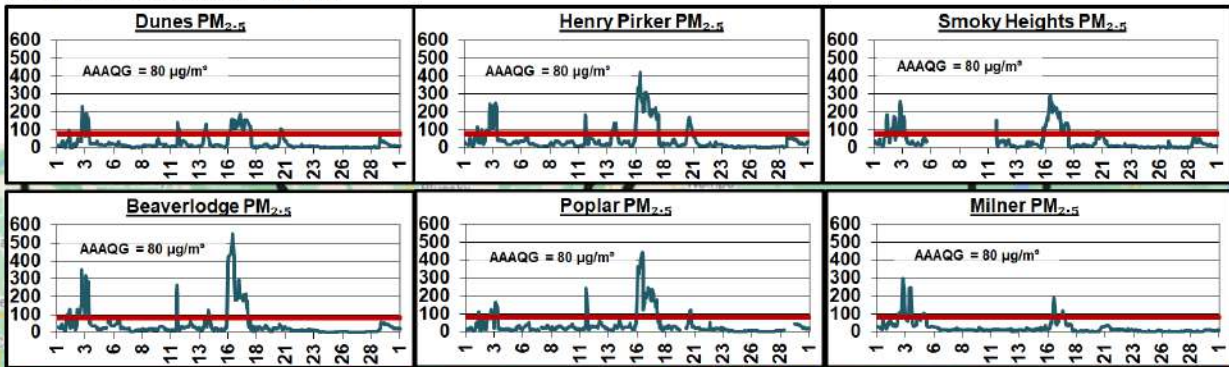
10.7 Fine Particulate Matter (PM_{2.5}) Plots

September 2023 PM_{2.5} Station Summary

Station	Avg µg/m ³	Max µg/m ³
Dunes PM _{2.5}	26.4	230.7
Henry Pirker PM _{2.5}	46.2	424.4
Smoky Heights PM _{2.5}	38.8	292.4
Beaverlodge PM _{2.5}	45.1	548.8
Valleyview PM _{2.5}	-	-
Donnelly PM _{2.5}	-	-
Poplar PM _{2.5}	37.9	444.4
Milner PM _{2.5}	23.0	297.8



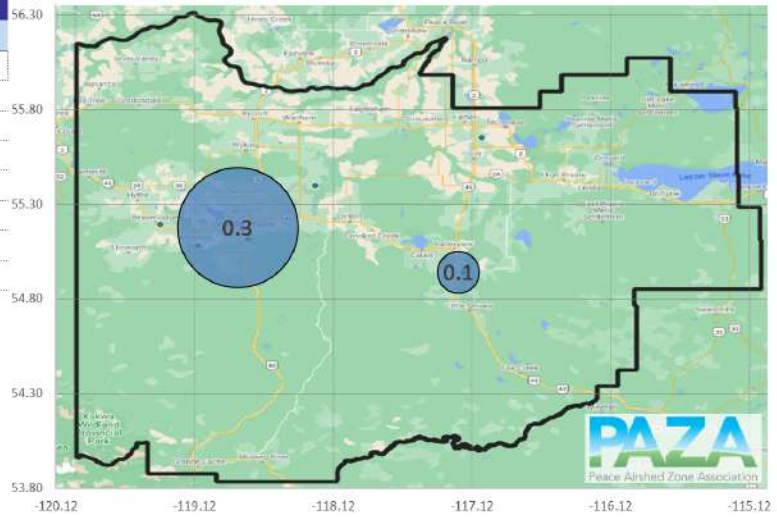
Fine Particulate Matter in µg/m³



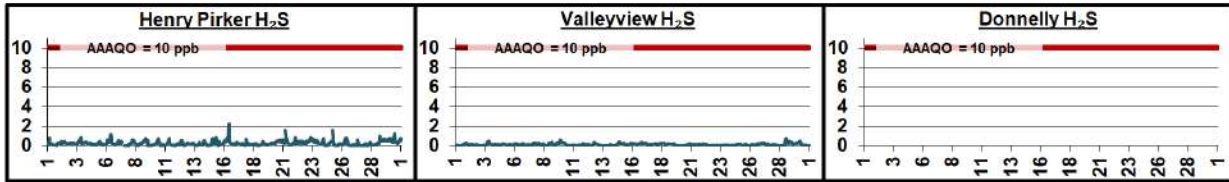
10.8 Hydrogen Sulphide (H₂S) Plots

September 2023 H₂S Station Summary

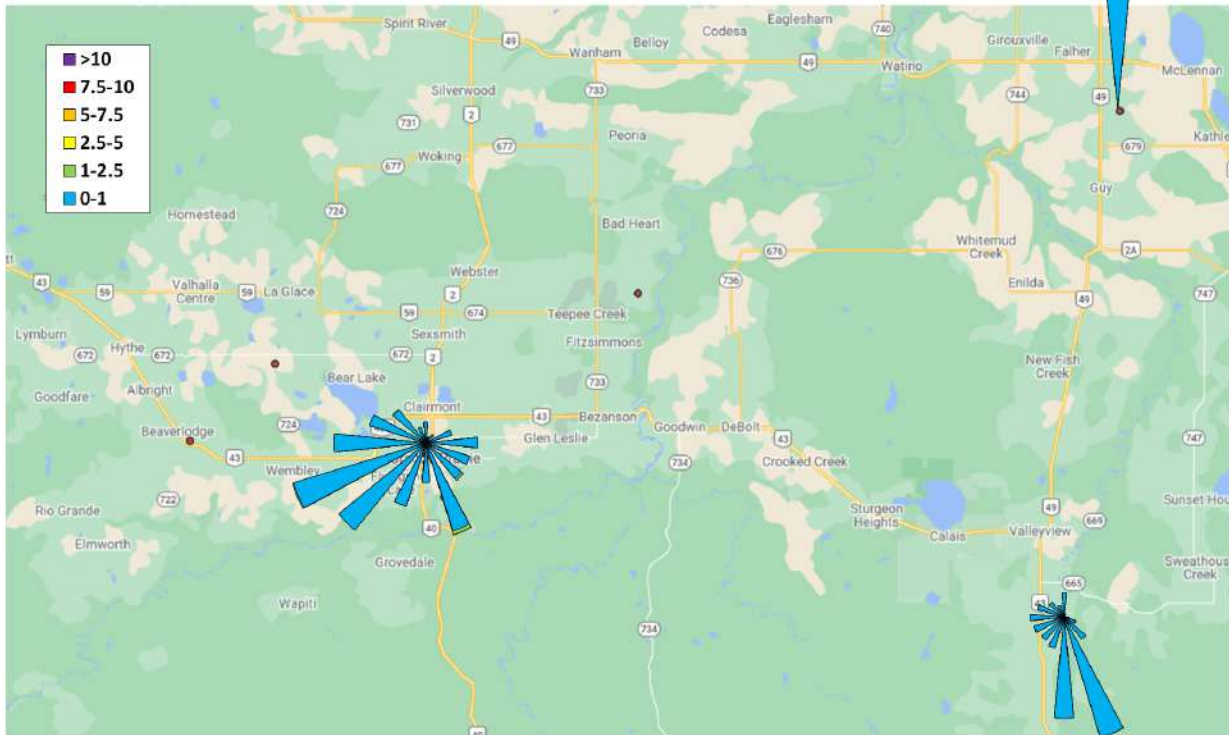
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirkler H ₂ S	0.3	2.2
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.7
Donnelly H ₂ S	-	-
Poplar H ₂ S	-	-
Milner H ₂ S	-	-



Hydrogen Sulphide in ppb



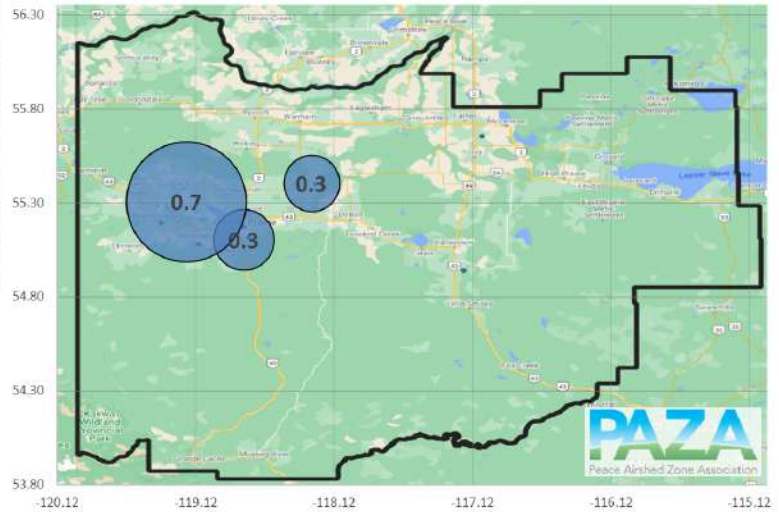
H₂S Roses in ppb



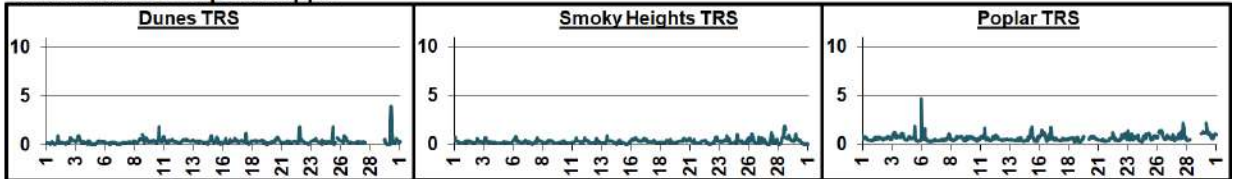
10.9 Total Reduced Sulphur (TRS) Plots

September 2023 TRS Station Summary

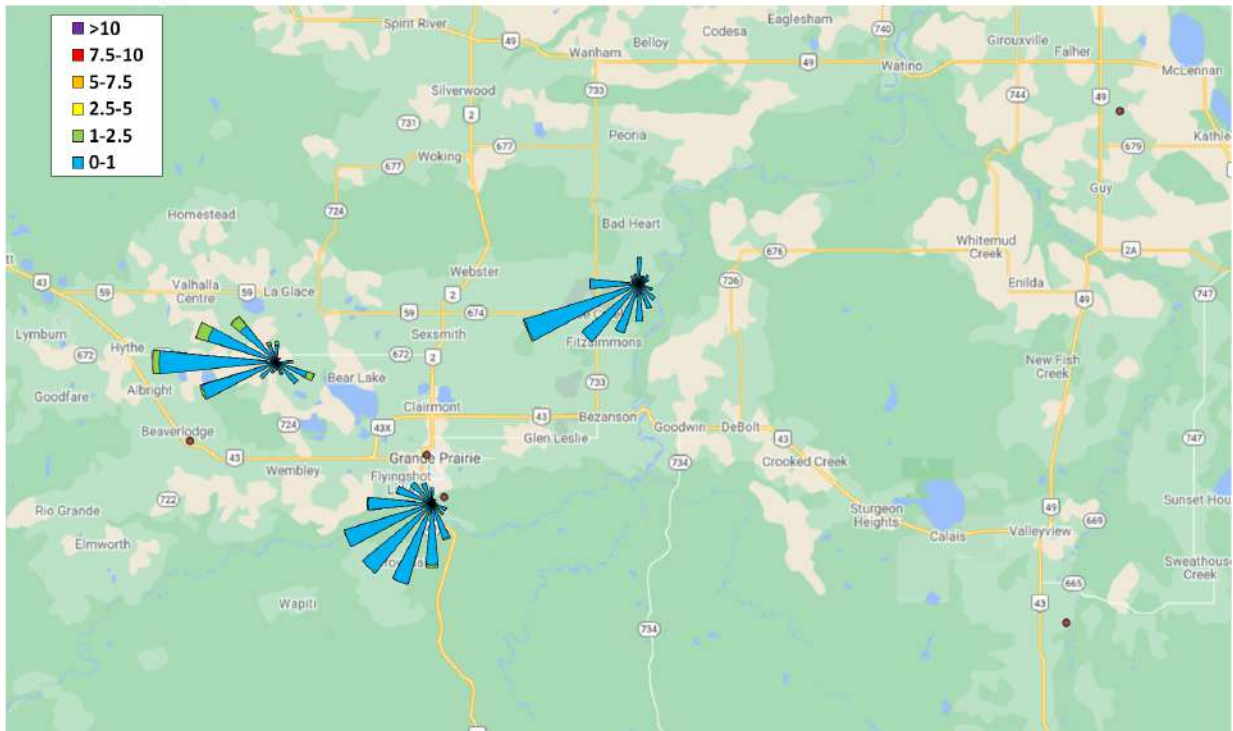
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.3	3.9
Henry Pirkler TRS	-	-
Smoky Heights TRS	0.3	1.9
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Donnelly TRS	-	-
Poplar TRS	0.7	4.7
Milner TRS	-	-



Total Reduced Sulphur in ppb



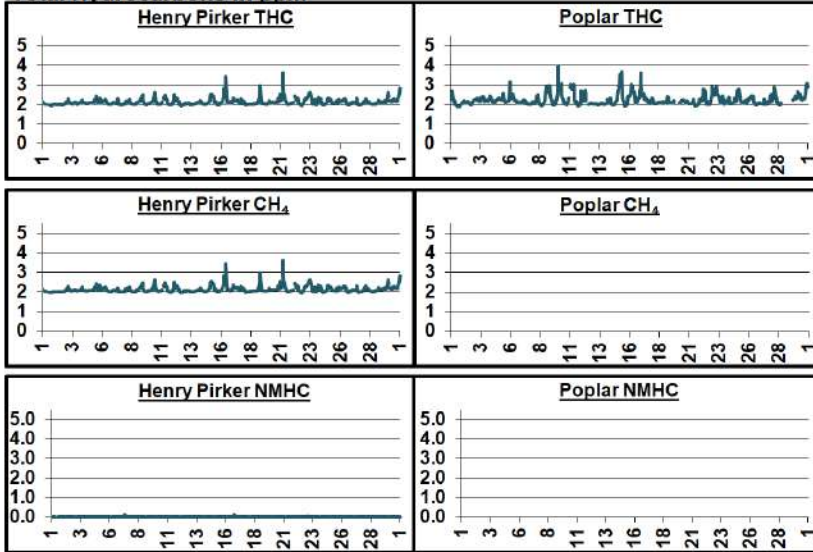
TRS Roses in ppb



10.10 Total Hydrocarbon (THC) Plots

September 2023 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 Pirker THC	2.1	3.6	2.1	3.6	0.0	0.1
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Donnelly THC	-	-	-	-	-	-
Poplar THC	2.2	4.0	-	-	-	-

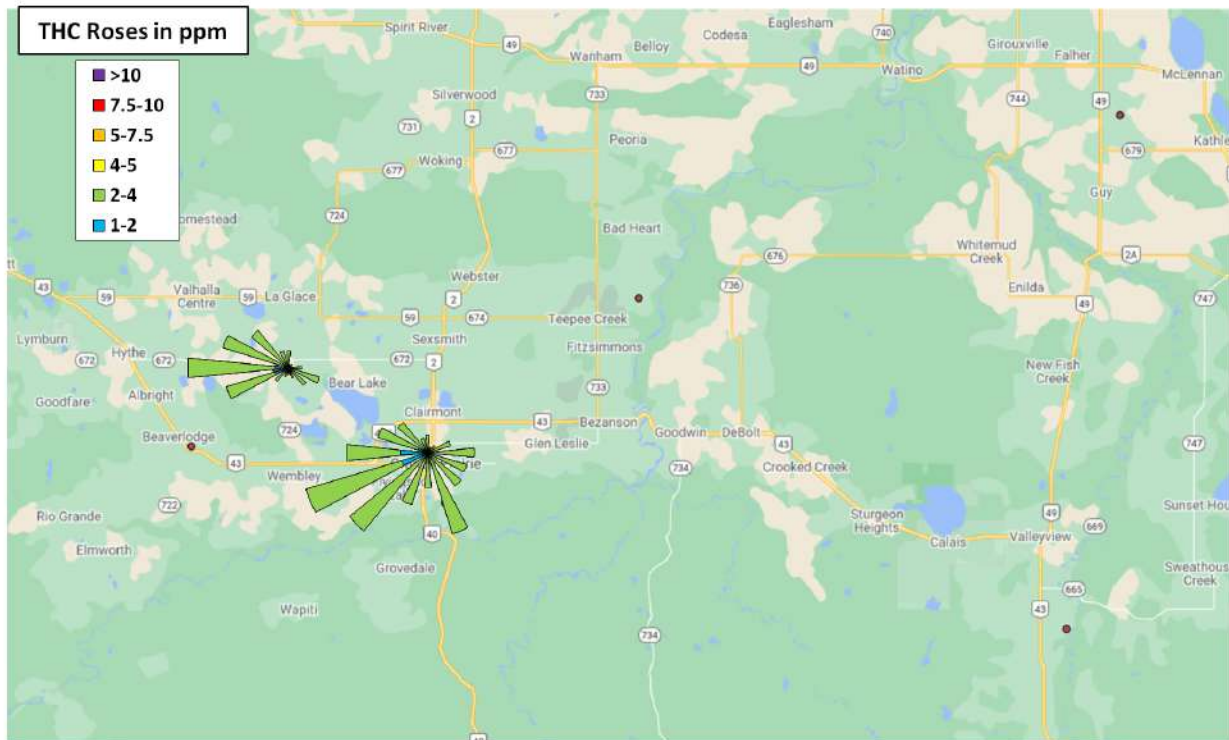
Total Hydrocarbons in ppm



Total Hydrocarbons (THC)

Methane (CH₄)

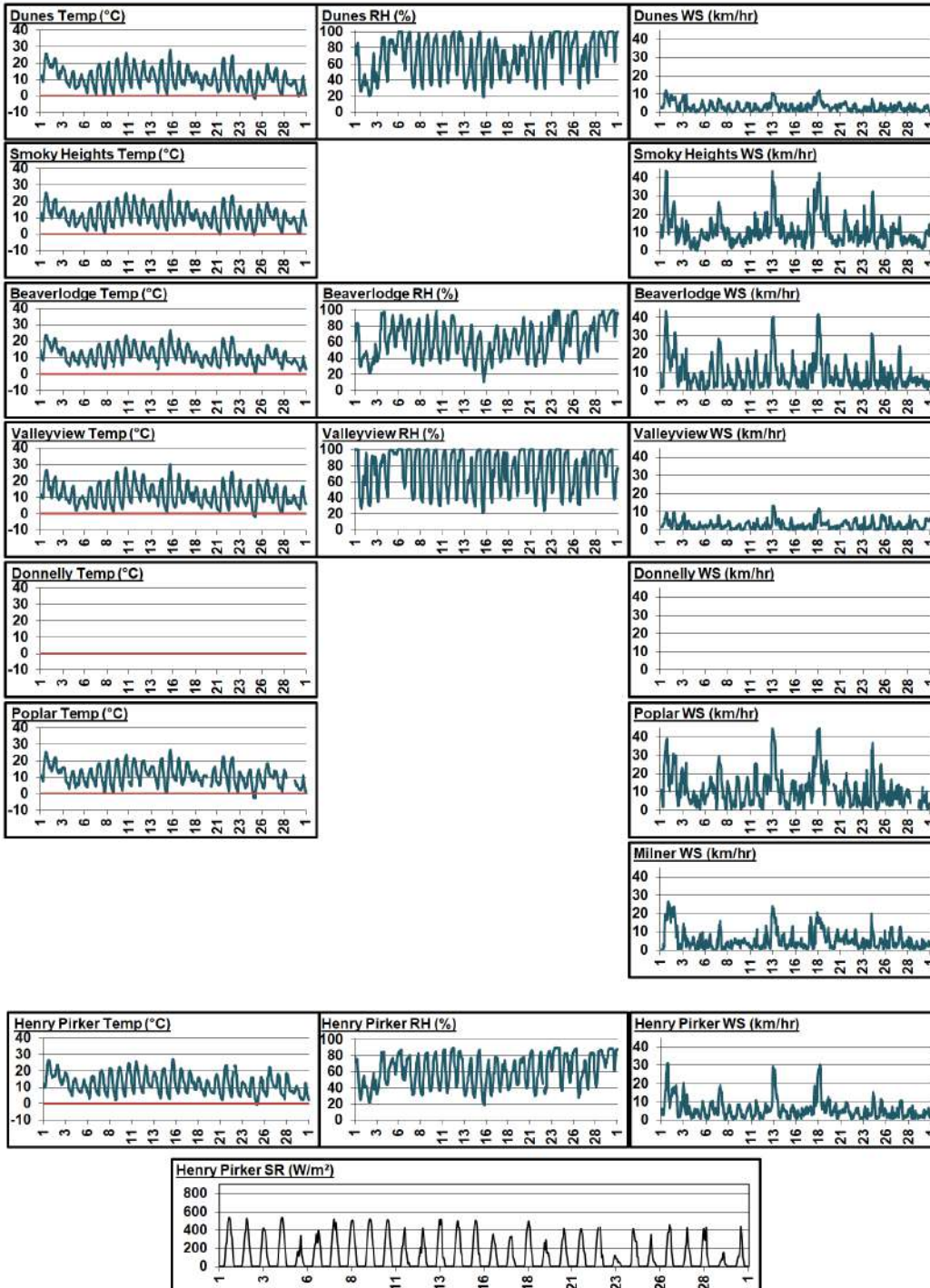
Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary

September 2023 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m ²)	WS (km/hr)	WD (deg)	WD
Dunes	10.9	69.1	-	3.0	233	SW
Henry Pirker	12.3	61.2	114.3	6.0	236	SW
Smoky Heights	11.2	-	-	10.5	236	SW
Beaverlodge	11.7	62.8	-	8.9	254	WSW
Valleyview	11.6	73.9	-	2.9	212	SSW
Donnelly	-	-	-	-	-	-
Poplar	11.1	-	-	11.3	269	W
Milner	-	-	-	5.4	242	WSW

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



11 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for September 2023

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
2a	Bay Tree		30.2			13-16-078-13 W6M
2b	Bay Tree		19.8			
19a	Wanham	0.5				16-22-077-03 W6M
19b	Wanham	0.5				
21a	Eaglesham	0.2				16-21-079-25 W5M
21b	Eaglesham	0.3				
29a	Smoky Heights			1.3		04-06-075-02 W6M
29b	Smoky Heights			1.3		
32a	Gold Creek	0.2				06-33-067-05 W6M
32b	Gold Creek	0.2				
35a	Jean Cote	0.3				12-35-079-21 W5M
35b	Jean Cote	0.2				
36a	Guy			0.9		03-04-076-22 W5M
36b	Guy			0.9		
40a	McLennan			0.9		03-29-077-19 W5M
40b	McLennan			0.8		
50a	East Prairie			1.2		11-13-079-08 W6M
50b	East Prairie			missing		
G3a	Girouxville 3				1.55	14-02-077-23 W5M
G3b	Girouxville 3				1.36	
D4a	Duvernay 4	0.2			0.11	04-33-062-20 W5M
D4b	Duvernay 4	0.2			0.08	
K3D	Kakwa 3			3.4		12-18-063-04 W6M
K3D	Kakwa 3			4.8		
K4D	Kakwa 4	2.8				06-18-063-04 W6M
K4D	Kakwa 4	2.7				
K1D	Kakwa 1				0.05	01-13-063-05 W6M
K1D	Kakwa 1				0.06	
M7a	Milner Bridge	0.2				08-06-057-08 W6M
M7b	Milner Bridge	0.2				
M10a	Milner Powerline			2.9		06-14-058-08 W6M
M10b	Milner Powerline			2.3		
J5a	Jayar5 Camp	0.2				11-08-062-03 W6M
J5b	Jayar5 Camp	0.3				
J1a	Jayar1 Plant			0.7		06-08-062-03 W6M
J1b	Jayar1 Plant			0.7		
J2a	Jayar2 14-8				0.14	07-08-062-03 W6M
J2b	Jayar2 14-8				0.14	

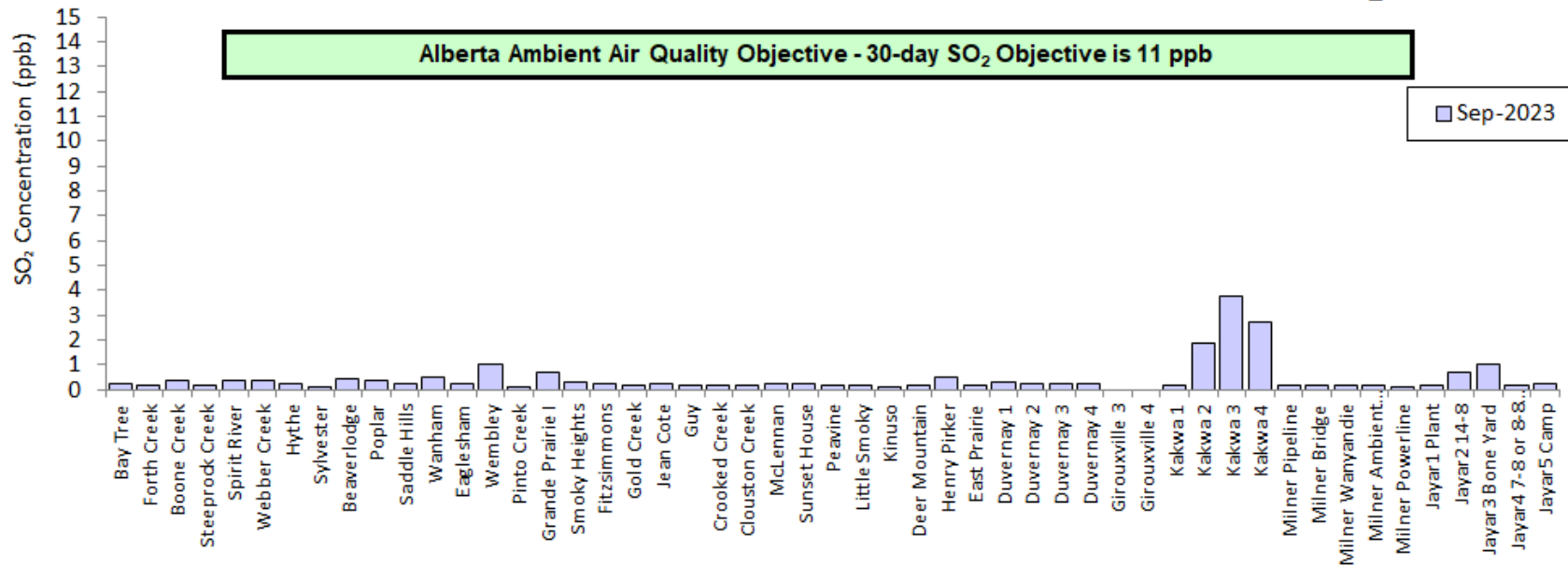
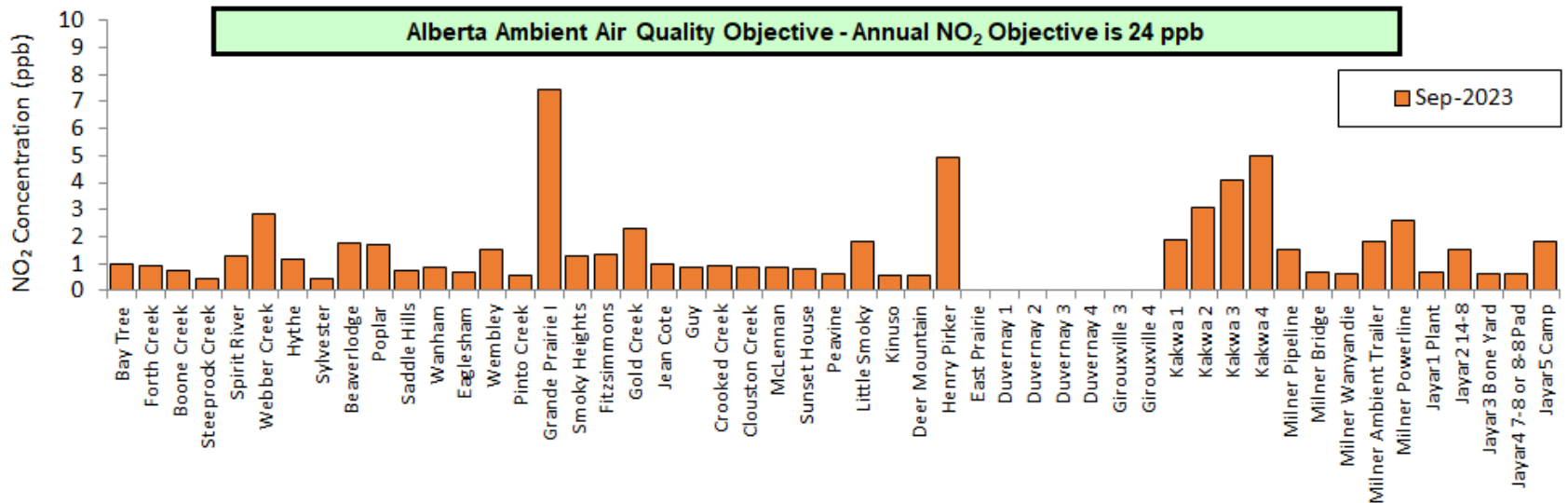
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.3	25.0	1.0	-	13-16-078-13 W6M
3	Forth Creek	0.2	-	0.9	-	04-13-082-07 W6M
5	Boone Creek	0.4	-	0.8	-	01-23-076-11 W6M
7	Steeprock Creek	0.2	-	0.4	-	09-35-072-13 W6M
9	Spirit River	0.4	-	1.3	-	08-12-079-07 W6M
11	Webber Creek	0.4	-	2.9	-	09-36-074-09 W6M
12	Hythe	0.3	-	1.1	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.5	-	08-06-069-12 W6M
16	Beaverlodge	0.4	-	1.8	-	15-36-071-10 W6M
17	Poplar	0.4	-	1.7	-	13-06-073-08 W6M
18	Saddle Hills	0.2	-	0.7	-	04-25-074-07 W6M
19	Wanham	0.5	-	0.9	-	16-22-077-03 W6M
21	Eaglesham	0.2	-	0.7	-	16-21-079-25 W5M
24	Wembley	1.0	-	1.5	-	12-31-070-08 W6M
25	Pinto Creek	0.1	-	0.6	-	04-24-069-11 W6M
27	Grande Prairie I	0.7	-	7.4	-	08-15-071-06 W6M
29	Smoky Heights	0.3	-	1.3	-	04-06-075-02 W6M
30	Fitzsimmons	0.3	-	1.4	-	15-36-072-03 W6M
32	Gold Creek	0.2	-	2.3	-	06-33-067-05 W6M
35	Jean Cote	0.2	-	1.0	-	12-35-079-21 W5M
36	Guy	0.2	-	0.9	0.26	03-04-076-22 W5M
37	Crooked Creek	0.2	16.2	1.0	-	16-01-071-26 W5M
39	Clouston Creek	0.2	-	0.9	-	12-01-073-22 W5M
40	McLennan	0.2	-	0.8	-	03-29-077-19 W5M
42	Sunset House	0.2	-	0.8	-	05-32-070-19 W5M
44	Peavine	0.2	-	0.6	-	03-05-079-15 W5M
46	Little Smoky	0.2	-	1.8	-	12-01-065-21 W5M
47	Kinuso	0.1	19.0	0.6	-	12-10-073-10 W5M
48	Deer Mountain	0.2	-	0.6	-	15-22-068-09 W5M
49	Henry Pirker	0.5	-	4.9	-	17-26-071-06 W6M
50	East Prairie	0.2	-	missing duplicate	-	11-13-079-08 W6M
D1	Duvernay 1	0.3	-	-	0.07	04-33-062-20 W5M
D2	Duvernay 2	0.2	-	-	0.09	04-33-062-20 W5M
D3	Duvernay 3	0.3	-	-	0.12	04-33-062-20 W5M
D4	Duvernay 4	0.2	-	-	0.10	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	1.46	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.48	04-08-077-22 W5M
K1	Kakwa 1	0.2	-	1.9	0.06	01-13-063-05 W6M
K2	Kakwa 2	1.9	-	3.1	0.05	08-13-063-05 W6M
K3	Kakwa 3	3.8	-	4.1	0.11	12-18-063-04 W6M
K4	Kakwa 4	2.8	-	5.0	0.07	06-18-063-04 W6M
M1	Milner Pipeline	0.2	-	1.5	-	12-14-058-08 W6M
M2	Milner Bridge	0.2	-	0.7	-	08-06-057-08 W6M
M3	Milner Wanyandie	0.2	-	0.6	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	0.2	-	1.8	-	09-15-058-08 W6M
M5	Milner Powerline	0.1	-	2.6	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.2	-	0.7	0.07	06-08-062-03 W6M
J2	Jayar2 14-8	0.7	-	1.5	0.14	07-08-062-03 W6M
J3	Jayar3 Bone Yard	1.0	-	0.6	0.09	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	0.2	-	0.6	0.14	10-08-062-03 W6M
J5	Jayar5 Camp	0.3	-	1.8	0.15	11-08-062-03 W6M

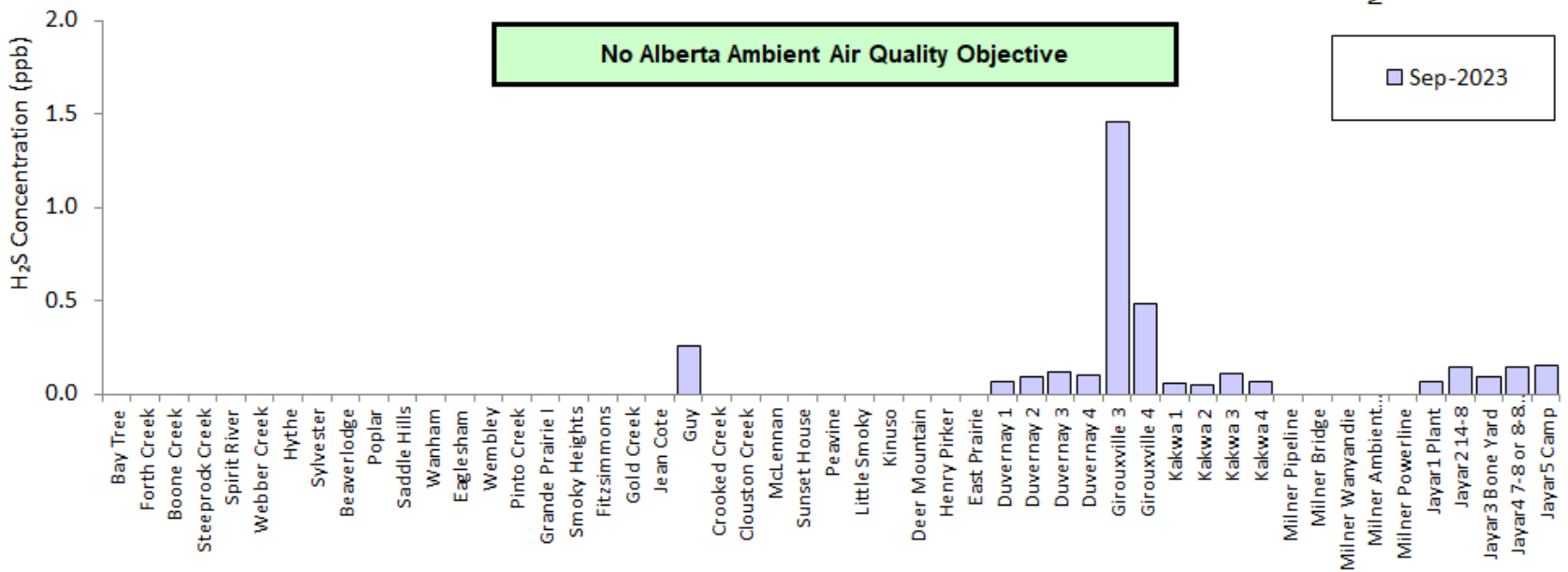
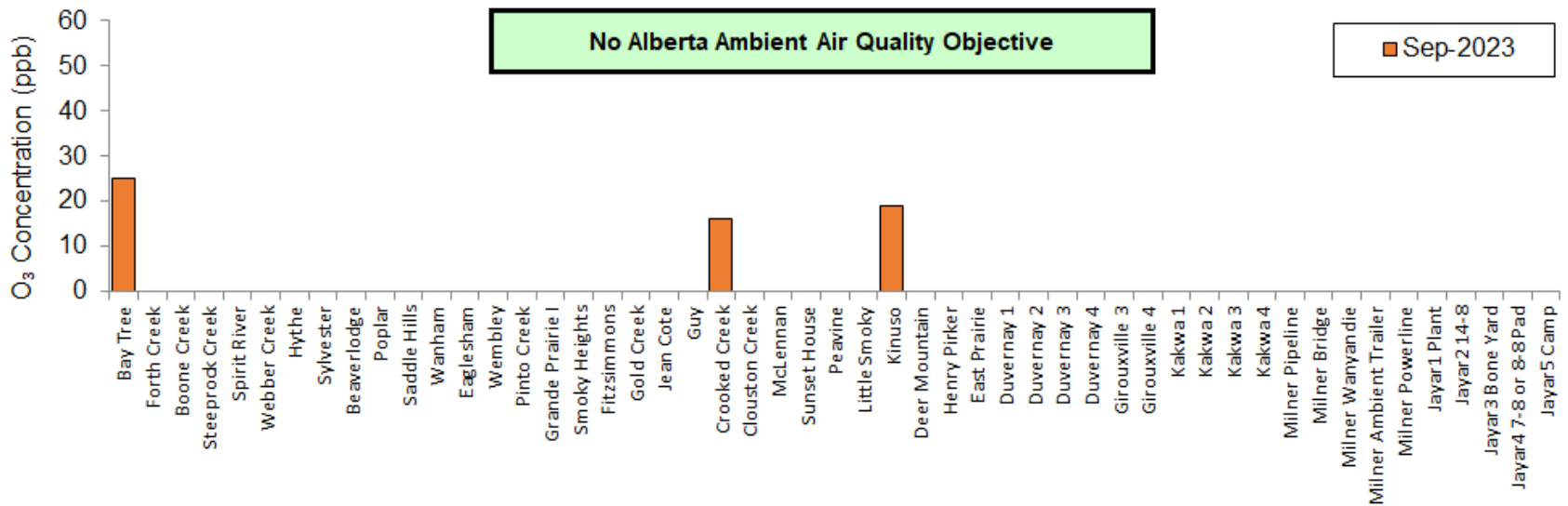
Passive Summary for September 2023

Stats	Sulphur Dioxide SO ₂ ppb	Ozone O ₃ ppb	Nitrogen Dioxide NO ₂ ppb	Hydrogen Sulphide H ₂ S ppb
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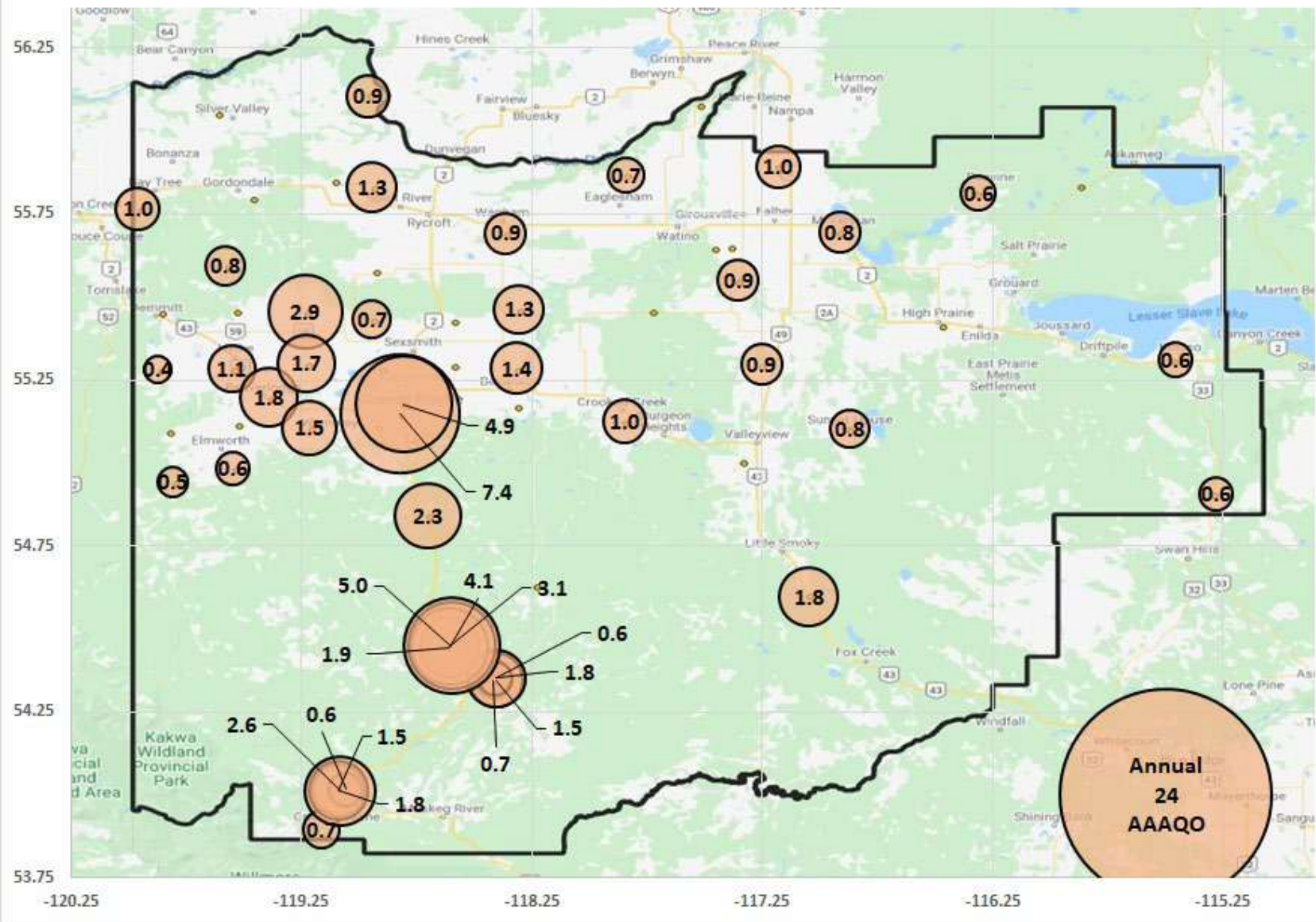
Passive Summary for September 2023 (PAZA)				
Mean	0.4	20.0	1.6	0.2
Standard Deviation	0.7	4.5	1.4	0.3
Minimum	0.1	16.2	0.4	0.1
	Milner Powerline (#M5)	Crooked Creek (#37)	Steepprock Creek (#7)	Kakwa 2 (#K2)
Maximum	3.8	25.0	7.4	1.5
	Kakwa 3 (#K3)	Bay Tree (#2)	Grande Prairie I (#27)	Girouxville 3 (#G3)

Continuous and Passive Monitoring Comparison				
PAZA Beaverlodge Station	0.4	23.7	3.5	-
Beaverlodge Passive (#16)	0.4	-	1.8	-
PAZA Henry Pirker Station	0.5	21.2	7.3	0.3
Henry Pirker passive (#49)	0.5	-	4.9	-
Milner Station	-	-	0.8	-
Milner passive	0.2	-	1.8	-

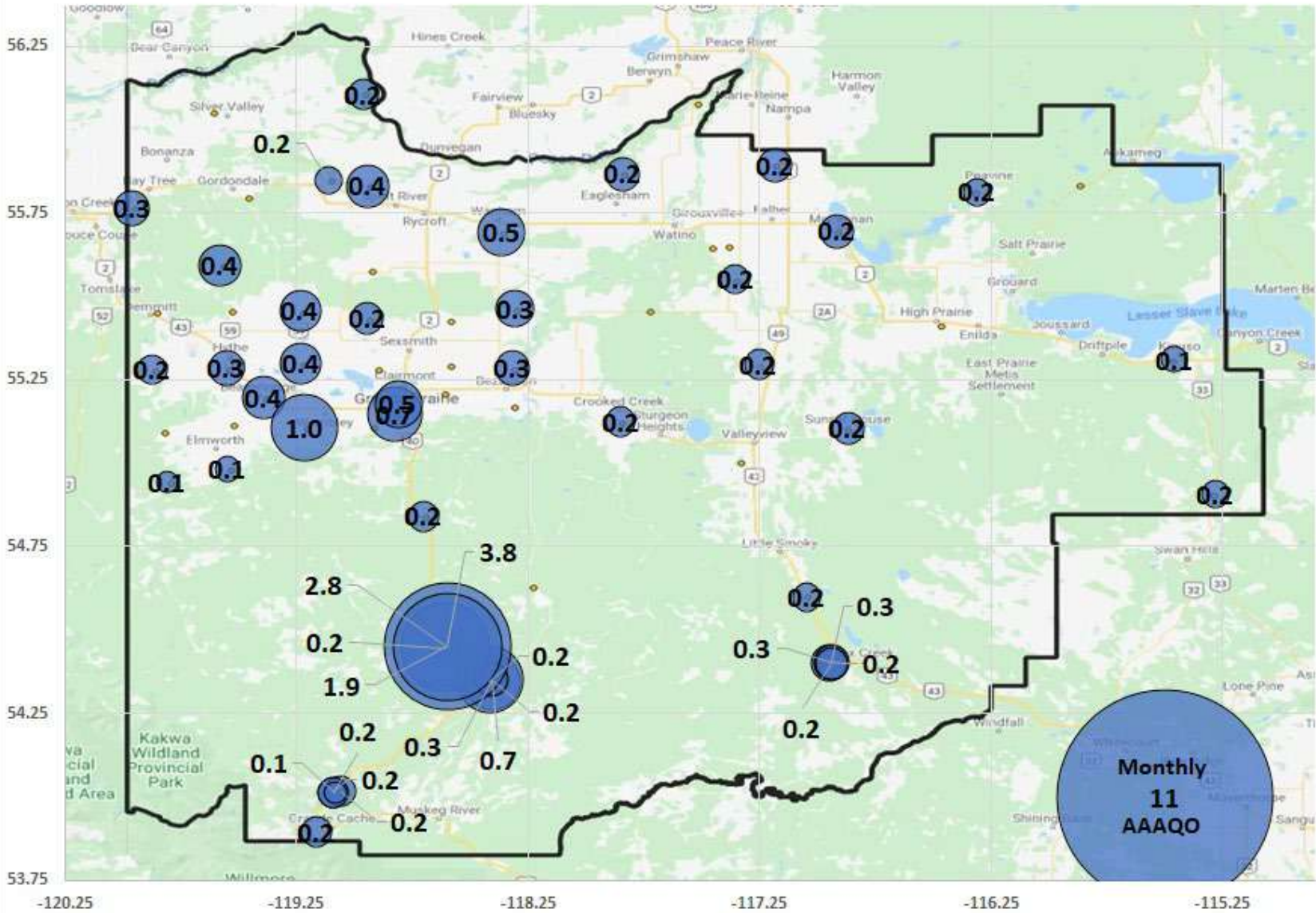




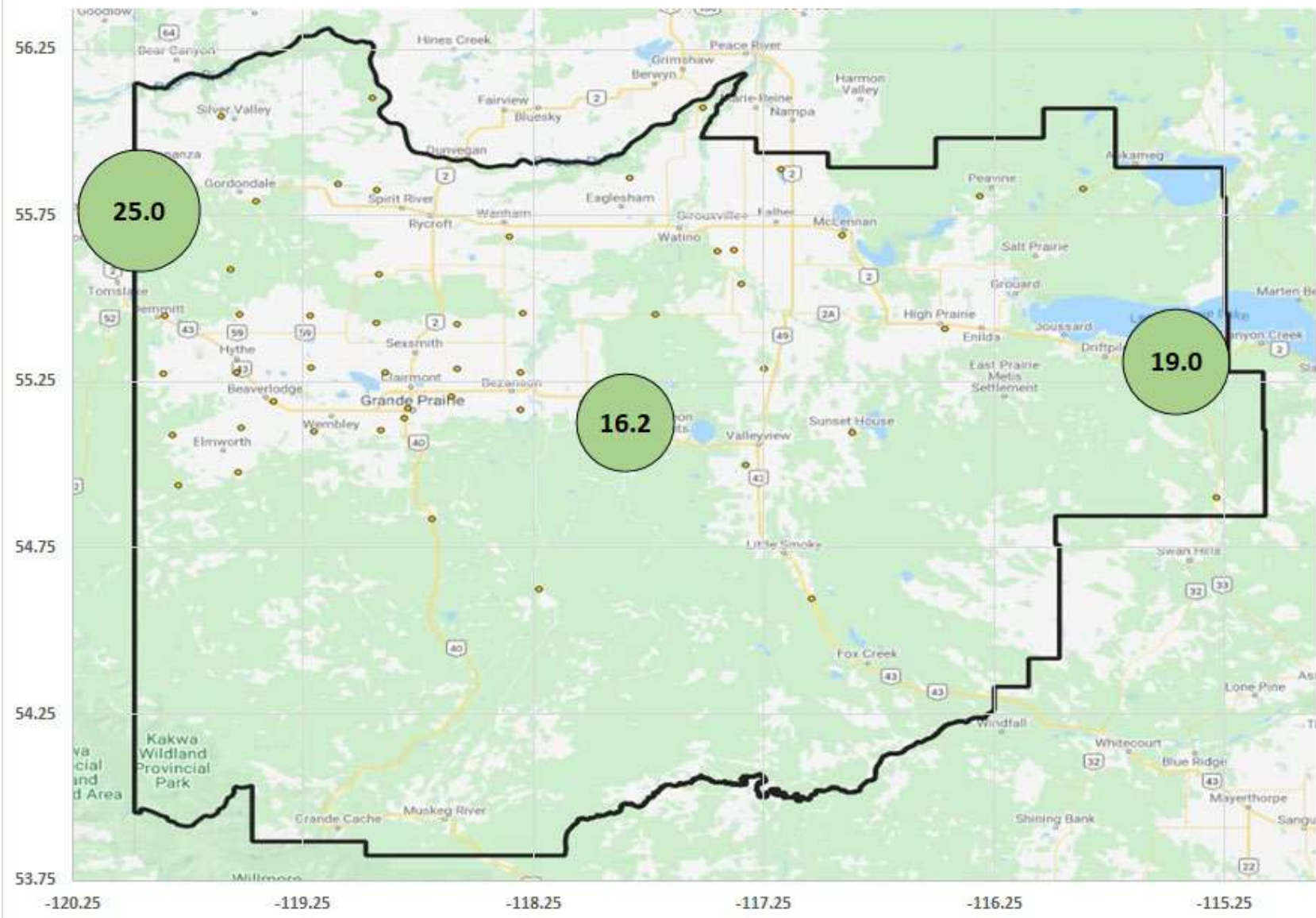
NO₂ Monthly Average (units in ppb)



SO₂ Monthly Average (units in ppb)



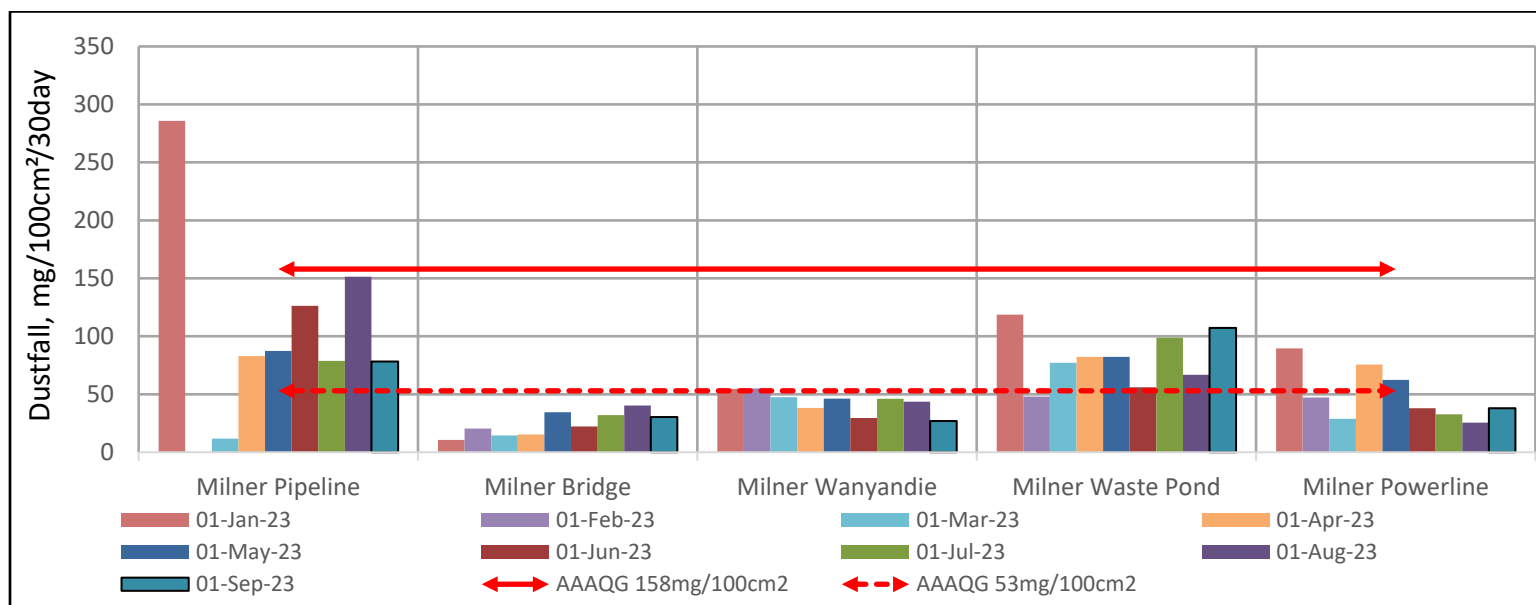
O₃ Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples September 2023

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	2023	Milner Pipeline	78.3	41.8	29	
September	2023	Milner Bridge	30.4	14.4	29	
September	2023	Milner Wanyandie	26.9	21.5	29	
September	2023	Milner Waste Pond	107.2	76.8	29	
September	2023	Milner Powerline	38.0	22.8	29	
September	2023	Milner Powerline Dup	33.4	22.0	29	RPD= 13% / 4%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

September 2023