



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

April 2022

May 31, 2022

Alberta Environment and Parks

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

Subject: **Peace Airshed Zone Association (PAZA)**
April 2022 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of April 2022.

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

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This report was prepared by Dr. Kevin McCullum and reviewed by Mandeep Dhaliwal.

PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr Kevin McCullum 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, Poplar-Portable and Milner.
Detailed Summaries are included in the report

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for April 2022 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
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
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 no readings above the AAAQO or AAAQG in the month

Operational times less than 90 percent:

All stations reported above 90% operational times except for:

CH₄/NMHC at Henry Pirker (81%), THC was ~99% as spare THC analyzer was used.

THC at Poplar station (72%); CH₄/NMHC at Poplar station not collected, ref#391078.

Air Incidents

None were reported

Deviations from Authorized Monitoring Methods

None to report

Passive Monitoring

- 49 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories
- There were 17 duplicates sampled in the month of April
 - Six SO₂ duplicates located at Guy, Spirit River, Crooked Creek, Duvernay 4, Jayar2 14-8, Wanyandie, RPD ranging from 0% to 42% (no fails)
 - One O₃ duplicate located at Sunset House; RPD 0% (no fails)
 - Six NO₂ duplicates at Spirit River, Little Smoky, Steeprock Creek, Grande Prairie I, Jayar3 Bone Yard, Wanyandie; RPD ranging from 3% to 64% (1 fail, Peavine)
 - Two H₂S duplicates, Duvernay 3, Jayar2 14-8; RPD 10% to 127% (3 fails)
- There was one missing sample at Girouxville 4, with the field note recorded as “unable to deploy April or May no access”.
- There were no exceedances of the AAAQOs for all monitored parameters at any of the passive monitoring stations during this month.

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall previously collected by Milner Power Limited
- There was one duplicate sampled collected for each in the month of April
 - RPD ranged from 11% to 20%
- Total dustfall ranged from 14.4 to 86.6 mg/100cm²/30day

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.

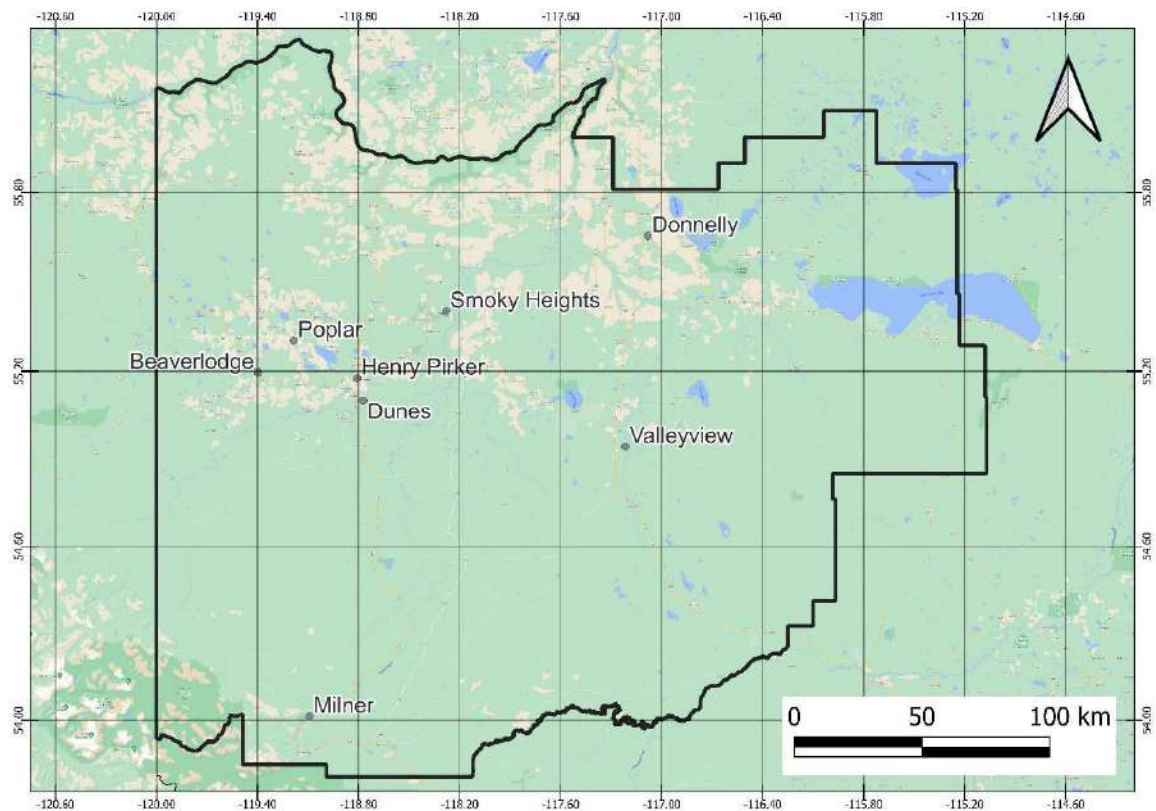


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

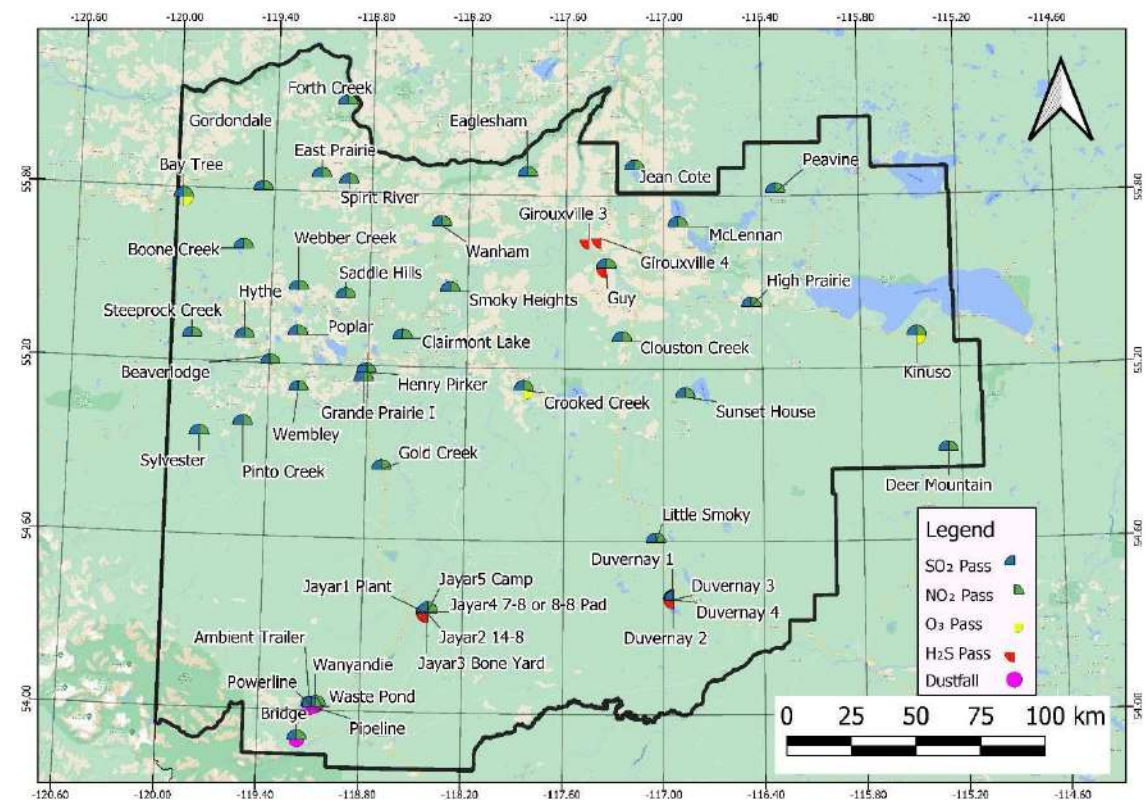
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 April 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 - April 2022 Beaverlodge Station Report

Parameter	April				Operational	1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.3	0.0	95.1%	100.0%	7.1	-	-	Apr-08 09:00	1.0	-	Apr-22	-	-	-	-	Apr 01, 2022
NO ₂ (ppb)	2.8	0.3	95.1%	100.0%	20.3	159	-	Apr-07 07:00	7.5	-	Apr-07	0	-	-	-	Apr 01, 2022
NO _x (ppb)	3.1	0.3	95.1%	100.0%	23.4	-	-	Apr-25 07:00	8.5	-	Apr-07	-	-	-	-	Apr 01, 2022
O ₃ (ppb)	37.1	6.6	95.3%	100.0%	53.6	76	-	Apr-25 17:00	44.5	-	Apr-02	0	-	-	-	Apr 01, 2022
PM _{2.5} (µg/m³)	2.3	0.0	99.7%	100.0%	14.3	80	-	Apr-22 08:00	7.9	29	Apr-21	0	-	0	-	Apr 05, 2022
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	15.4	172	-	Apr-20 13:00	2.0	48	Apr-20	0	-	0	0	Apr 05, 2022
Average	1.1	-11.8	100.0%	100.0%	15.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 348 NNW										
Temp (°C)	1.1	-11.8	100.0%	100.0%	15.2											
RH (%)	62.3	15.8	100.0%	100.0%	100.0											
WS (km/hr)	12.0	0.6	100.0%	100.0%	43.4											
WD (deg)	348	1.1	100.0%	100.0%	358.1											

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}	Sharp	5030	No Operational issues noted
SO ₂	Thermo	43i-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.2 Dunes Air Monitoring Station

PAZA - April 2022 Dunes Station Report

Parameter	April				Operational	1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
PM _{2.5} (µg/m³)	1.9	0.0	99.6%	100.0%	16.4	80	-	Apr-17 03:00	6.1	29	Apr-22	0	-	0	-	Apr-25-2022
SO ₂ (ppb)	0.6	0.0	95.1%	100.0%	36.0	172	-	Apr-28 18:00	7.8	48	Apr-28	0	-	0	0	Apr-25-2022
TRS (ppb)	0.2	0.0	95.3%	100.0%	5.1	-	-	Apr-25 02:00	1.6	-	Apr-25	-	-	-	-	Apr-25-2022
Average	1.5	-11.7	100.0%	100.0%	18.5	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction 355 N										
Temp (°C)	1.5	-11.7	100.0%	100.0%	18.5											
RH (%)	59.9	16.0	100.0%	100.0%	96.9											
WS (km/hr)	5.3	0.0	100.0%	100.0%	14.6											
WD (deg)	355	1.0	100.0%	100.0%	359.9											

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	TEOM AB	No Operational issues noted
SO ₂	TECO	43i	No Operational issues noted
TRS	TECO	43C	No Operational issues noted
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - April 2022 Henry Pirker Station Report

AZA - April 2022 Henry Ficker Station Report															
Parameter	April			Operational	1-hour			8-hour / 24-hour			Exceedance				Calibration
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	1.2	0.0	94.0%	98.9%	36.8	-	Apr-08 08:00	6.4	-	Apr-22	-	-	-	-	Apr 07, 2022
NO _x (ppb)	5.6	0.4	94.0%	98.9%	38.2	159	Apr-04 08:00	11.7	-	Apr-07	0	-	-	-	Apr 07, 2022
NO ₂ (ppb)	6.9	0.7	94.0%	98.9%	60.8	-	Apr-08 08:00	17.8	-	Apr-22	-	-	-	-	Apr 07, 2022
O ₃ (ppb)	33.4	0.4	94.2%	98.9%	53.3	76	Apr-25 18:00	40.1	-	Apr-16	0	-	-	-	Apr 07, 2022
PM _{2.5} (µg/m³)	3.1	0.0	98.3%	98.8%	18.8	80	Apr-22 00:00	6.9	29	Apr-22	0	-	0	-	Apr 08, 2022
SO ₂ (ppb)	0.1	0.0	94.2%	98.9%	10.1	172	Apr-27 10:00	0.5	48	Apr-05	0	-	0	0	Apr 07, 2022
H ₂ S (ppb)	0.1	0.0	94.2%	98.9%	1.4	10	Apr-26 01:00	0.3	3	Apr-08	0	-	0	-	Apr 08, 2022
CH ₄ (ppm)	2.1	2.0	76.1%	80.7%	3.4	-	Apr-08 08:00	2.3	-	Apr-08	-	-	-	-	Apr 06, 2022
THC (ppm)	2.1	1.9	93.1%	98.6%	3.5	-	Apr-08 08:00	2.3	-	Apr-08	-	-	-	-	Apr 06, 2022
NMHC (ppm)	0.0	0.0	76.1%	80.7%	0.2	-	Apr-08 08:00	0.0	-	Apr-22	-	-	-	-	Apr 06, 2022
CO (ppm)	0.2	0.1	94.0%	98.9%	0.5	13	Apr-01 06:00	0.2	5	Apr-01	0	0	-	-	Apr 06, 2022
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	2.5	-11.1	98.9%	98.9%	18.9										
RH (%)	56.0	17.7	98.9%	98.9%	87.6										
SR (W/m²)	135.3	0.0	98.9%	98.9%	621.7										
WS (km/hr)	8.2	0.2	98.9%	98.9%	29.4										
WD (deg)	310	0.2	98.9%	98.9%	360.0	Average Wind Direction 310 NW									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	421Q	April 27 power failure (8hrs)
O ₃	TECO	49I	April 27 power failure (8hrs)
PM _{2.5}	Sharp	5030	Second calibration flagged as maintenance (1hr); April 27 power failure (8hrs)
SO ₂	TEI	43I-TLE	April 27 power failure (8hrs)
H ₂ S	TEI	450I	April 27 power failure (8hrs)
THC/CH ₄ /NMHC	TEI	55I	Repaired 55I installed, CH ₄ /NMHC (126 hrs not in service); Apr 7 span issue (2hrs); Apr 27 power failure (8hrs)
CO	TEI	48I-TLE	April 27 power failure (8hrs)
Met Equip	MetOne	50.5	April 27 power failure (8hrs)

1.4 Smoky Heights Air Monitoring Station

PAZA - April 2022 Smoky Heights Station Report

AAR - April 2022 Smoky Heights Station Report															
April					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m ³)	2.1	0.0	99.6%	100.0%	35.6	80	Apr-07 23:00	5.2	29	Apr-21	0	-	0	-	Apr 27, 2022
SO ₂ (ppb)	0.2	0.0	95.3%	100.0%	2.3	172	Apr-05 10:00	0.6	48	Apr-05	0	-	0	0	Apr 27, 2022
TRS (ppb)	0.2	0.0	95.3%	100.0%	1.1	-	Apr-05 06:00	0.3	-	Apr-05	-	-	-	-	Apr 27, 2022
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction316WNW									
Temp (°C)	1.7	-12.3	100.0%	100.0%	17.9										
WS (km/hr)	12.0	0.4	100.0%	100.0%	42.4										
WD (deg)	316	0.4	100.0%	100.0%	360.0										

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No Operational issues noted
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 - April 2022 Valleyview Station Report

AZR - April 2022 Valleyview Station Report															
April					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.1	0.0	95.3%	100.0%	1.0	172	Apr-16 11:00	0.4	48	Apr-25	0	-	0	0	Apr 11, 2022
H ₂ S (ppb)	0.0	0.0	95.1%	100.0%	0.3	10	Apr-06 00:00	0.1	3	Apr-22	0	-	0	-	Apr 11, 2022
Average		Minimum	Valid	Operational	Maximum										
Temp (°C)	2.4	-13.1	100.0%	100.0%	19.7										
RH (%)	66.4	20.1	100.0%	100.0%	100.2										
WS (km/hr)	5.7	0.1	100.0%	100.0%	20.9										
WD (deg)	312	0.0	100.0%	100.0%	360.0										
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%															
Average Wind Direction									312 NW						

Update Summary:

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

1.6 Donnelly Air Monitoring Station

PAZA - April 2022 Donnelly Station Report

AER - April 2022 Summary Station Report																																						
Parameter	April			Operational	Max	1-hour		Max	24-hour		Exceedance				Calibration																							
	Average	Minimum	Valid			Objective	Max Day and Time		Objective	Max Day	1hr	8hr	24hr	30d	Date																							
SO ₂ (ppb)	0.1	0.0	94.0%	98.9%	0.8	172	Apr-03 17:00	0.4	48	Apr-14	0	-	0	0	Apr 13, 2022																							
H ₂ S (ppb)	0.1	0.0	94.2%	98.9%	0.4	10	Apr-05 02:00	0.2	3	Apr-25	0	-	0	-	Apr 13, 2022																							
<table><tr><th>Average</th><th>Minimum</th><th>Valid</th><th>Operational</th><th>Maximum</th></tr><tr><td>Temp (°C)</td><td>1.6</td><td>-13.0</td><td>98.9%</td><td>98.9%</td><td>18.3</td></tr><tr><td>WS (km/hr)</td><td>10.8</td><td>0.0</td><td>98.9%</td><td>98.9%</td><td>38.2</td></tr><tr><td>WD (deg)</td><td>355</td><td>0.0</td><td>98.9%</td><td>98.9%</td><td>359.7</td></tr></table>																Average	Minimum	Valid	Operational	Maximum	Temp (°C)	1.6	-13.0	98.9%	98.9%	18.3	WS (km/hr)	10.8	0.0	98.9%	98.9%	38.2	WD (deg)	355	0.0	98.9%	98.9%	359.7
Average	Minimum	Valid	Operational	Maximum																																		
Temp (°C)	1.6	-13.0	98.9%	98.9%	18.3																																	
WS (km/hr)	10.8	0.0	98.9%	98.9%	38.2																																	
WD (deg)	355	0.0	98.9%	98.9%	359.7																																	
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%																																						
<table><tr><td>Average Wind Direction</td><td>355</td><td>N</td></tr></table>																Average Wind Direction	355	N																				
Average Wind Direction	355	N																																				

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	Teco	43I	Apr 2 power failure (1hr); Apr 5 power failure (3hrs); Apr 25 communications issue (4hrs)
H ₂ S	Thermo	45C	Apr 2 power failure (1hr); Apr 5 power failure (3hrs); Apr 25 communications issue (4hrs)
Met Equip	RMYoung	5103	Apr 2 power failure (1hr); Apr 5 power failure (3hrs); Apr 25 communications issue (4hrs)

1.7 Poplar Air Monitoring Station

PAZA - April 2022 Poplar Station Report

April 2022 - April Station Report																	
Parameter	April				Operational	1-hour			24-hour			Exceedance				Calibration	
	Average	Minimum	Valid			Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
NO (ppb)	0.4	0.0	92.2%	97.2%	10.6	-	Apr-26 09:00	1.2	-	Apr-01	-	-	-	-	Apr 13, 2022		
NO ₂ (ppb)	2.9	0.3	92.2%	97.2%	17.5	159	Apr-26 09:00	6.4	-	Apr-07	0	-	-	-	Apr 13, 2022		
NO _x (ppb)	3.3	0.4	92.2%	97.2%	28.3	-	Apr-26 09:00	7.6	-	Apr-07	-	-	-	-	Apr 13, 2022		
O ₃ (ppb)	34.3	7.2	92.8%	97.2%	53.3	76	Apr-04 17:00	43.8	-	Apr-02	0	-	-	-	Apr 13, 2022		
PM _{2.5} (µg/m³)	1.4	0.0	96.4%	96.7%	11.7	80	Apr-11 16:00	4.2	29	Apr-22	0	-	0	-	Apr 11, 2022		
SO ₂ (ppb)	0.7	0.0	92.6%	97.2%	21.5	172	Apr-08 13:00	2.3	48	Apr-21	0	-	0	0	Apr 13, 2022		
TRS (ppb)	0.3	0.0	92.4%	97.2%	1.5	-	Apr-26 09:00	0.5	-	Apr-26	-	-	-	-	Apr 07, 2022		
CH ₄ (ppm)																	
THC (ppm)	2.3	2.0	68.2%	71.6%	4.6	-	Apr-24 05:00	2.6	-	Apr-24	-	-	-	-	Apr 19, 2022		
NMHC (ppm)																	
	Average	Minimum	Valid	Operational	Maximum												
Temp (°C)	0.9	-11.6	97.2%	97.2%	15.6												
WS (km/hr)	13.3	0.3	94.2%	94.2%	41.0												
WD (deg)	345	0.6	94.2%	94.2%	358.8												
Note: Valid hours must be greater than 75%																	
Operational hours must be greater than 90%																	
Average Wind Direction										345 NNW							

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42I	Apr 14, 18, 29 communication failure (20hrs removed)
O ₃	TEI	49I	Apr 14, 18, 29 communication failure (20hrs removed)
PM _{2.5}	Thermo	TEOM AB	Apr 14, 18, 29 comm failure (20hrs removed); Negative drift (<-3µg/m ³ , 4hrs)
SO ₂	TEI	43I	Apr 14, 18, 29 communication failure (20hrs removed)
TRS	TEI	43I	Apr 14, 18, 29 communication failure (20hrs removed)
THC/CH ₄ /NMHC	TEI	55I-A3PHAA	THC online Apr 8 (CH ₄ +NMHC offline); Apr 11,19 (10hrs maint.); Apr 14, 18, 29 comm failure (20hrs)
Met Equip	MetOne	50.5	April 28-29, 22hrs removed due to frozen wind head; Apr 14, 18, 29 comm failure (20hrs removed)

1.8 Milner Air Monitoring Station

PAZA - April 2022 Milner Station Report

AAR - April 2022 Winter Station Report															
Parameter	April			Operational	1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	
NO (ppb)	0.4	0.0	91.1%	96.1%	19.2	-	Apr-01 09:00	1.6	-	Apr-01	-	-	-	-	Apr 26, 2022
NO ₂ (ppb)	2.4	0.1	91.1%	96.1%	18.3	159	Apr-07 09:00	4.5	-	Apr-01	0	-	-	-	Apr 26, 2022
NO _x (ppb)	2.8	0.0	91.1%	96.1%	36.3	-	Apr-01 09:00	6.2	-	Apr-01	-	-	-	-	Apr 26, 2022
PM _{2.5} (µg/m³)	5.7	0.0	97.5%	97.8%	40.9	80	Apr-07 19:00	11.5	29	Apr-07	0	-	0	-	Apr 26, 2022
	Average	Minimum	Valid	Operational	Maximum										
WS (km/hr)	7.3	0.0	99.9%	99.9%	31.5										
WD (deg)	256	2.8	99.9%	99.9%	358.2										
						Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
						Average Wind Direction 256 WSW									

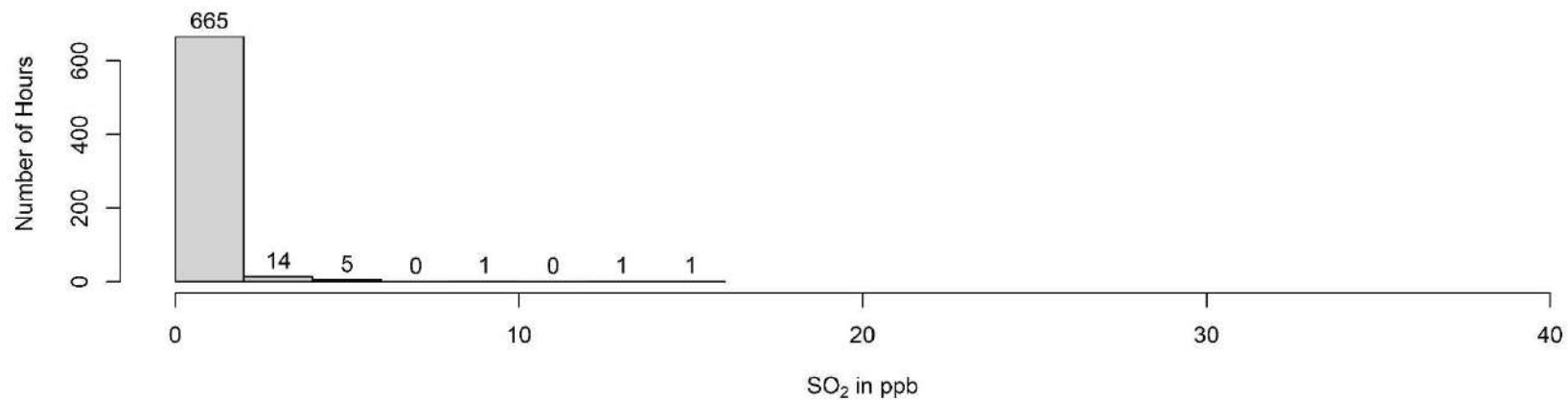
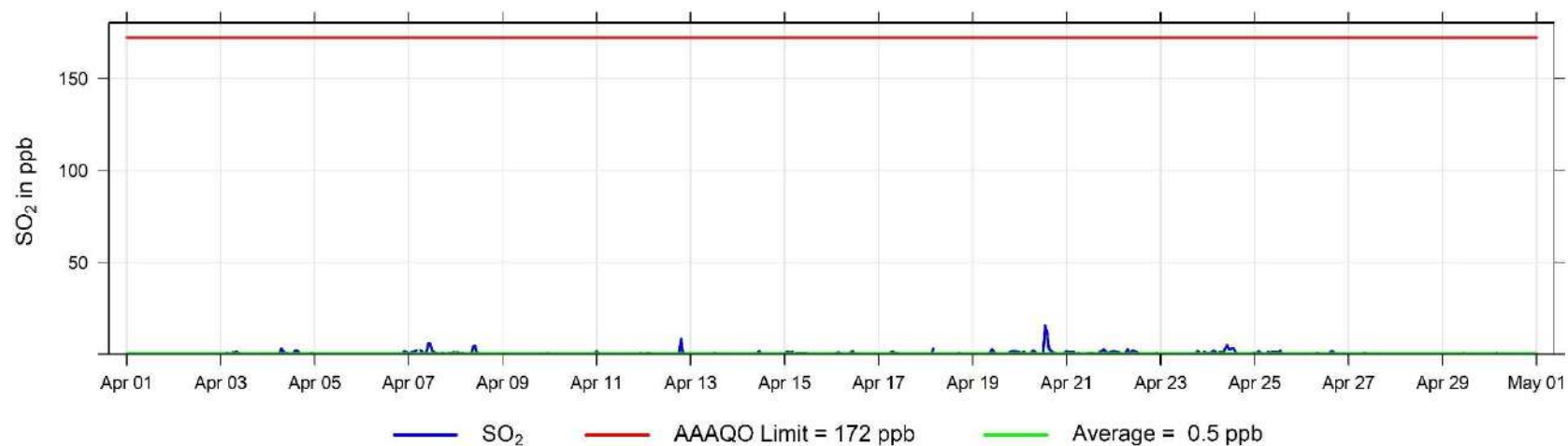
Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Longer period of AIC caused 2hrs per day upto calibration; missed span Apr 29 (2hrs removed)
PM _{2.5}	TEOM	AB	Several periods of data less than -3µg/m³, removed 16hrs
Met Equip	MetOne	50.5	No Operational Issues noted

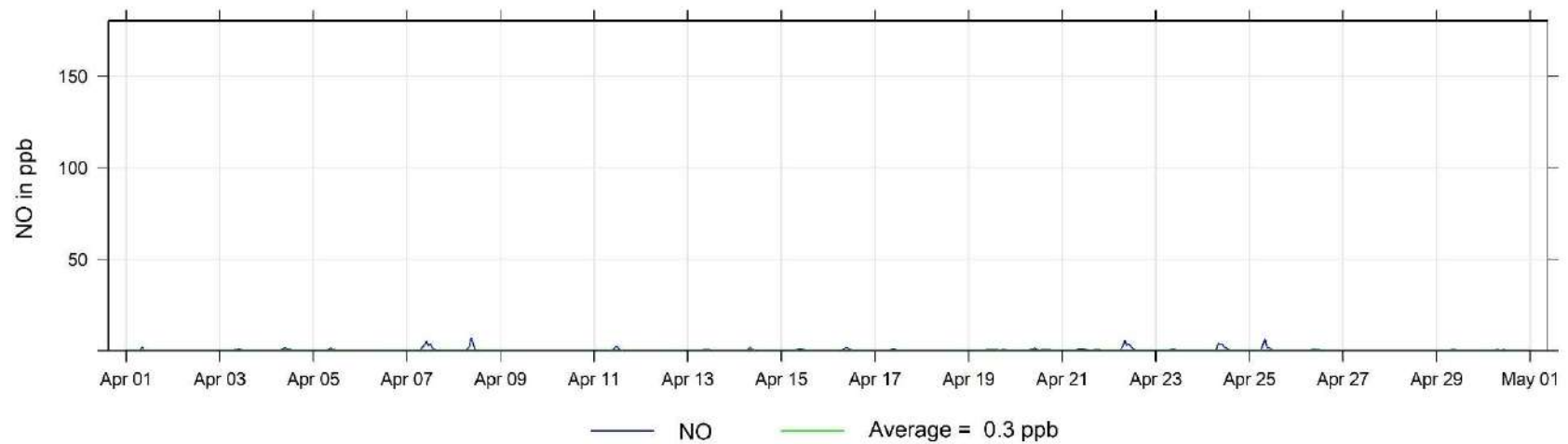
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

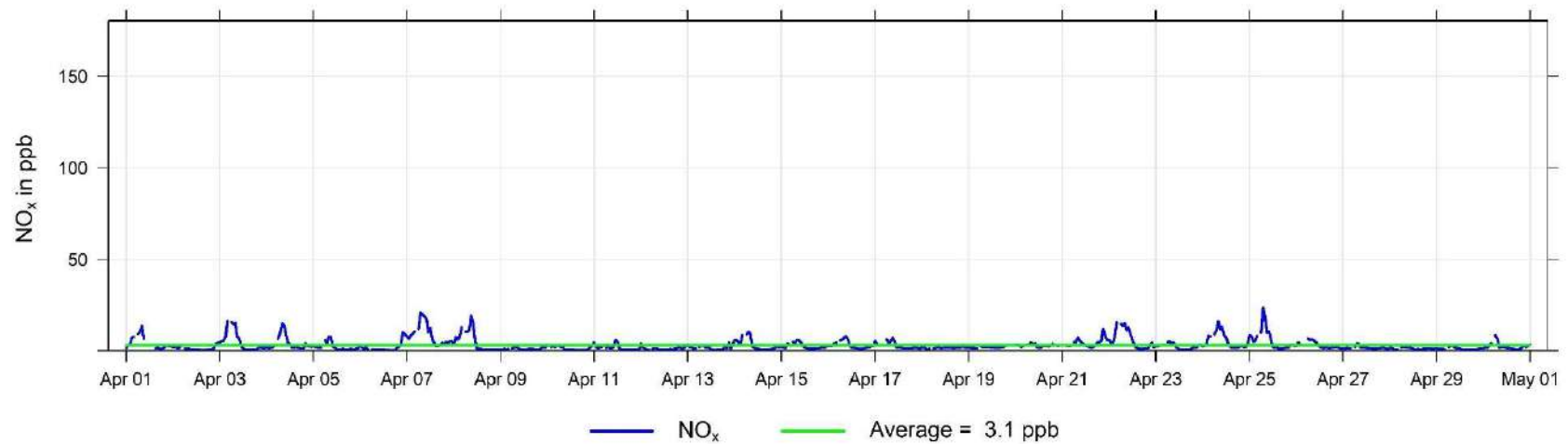
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



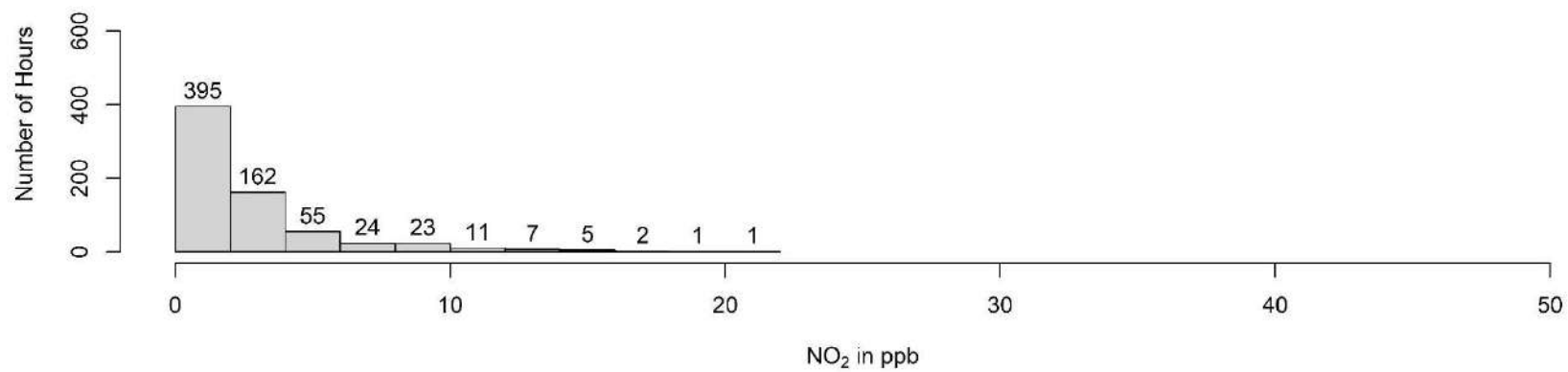
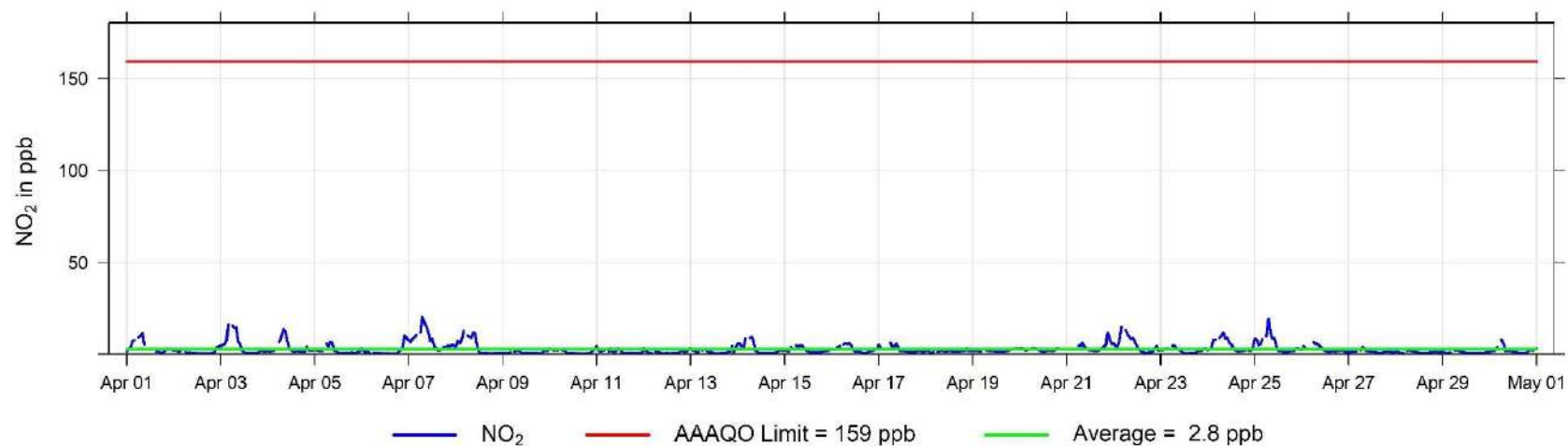
April 2022 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



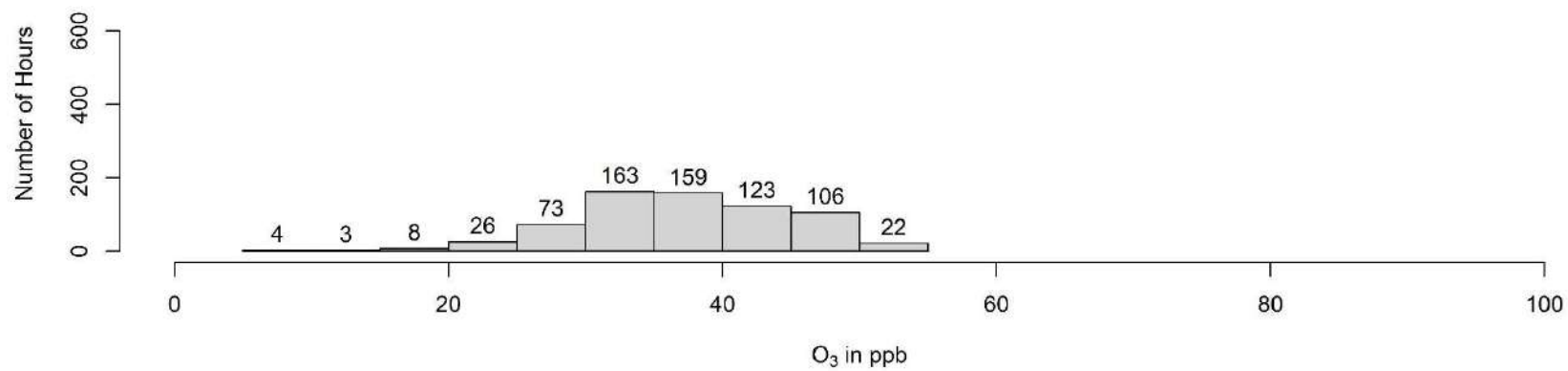
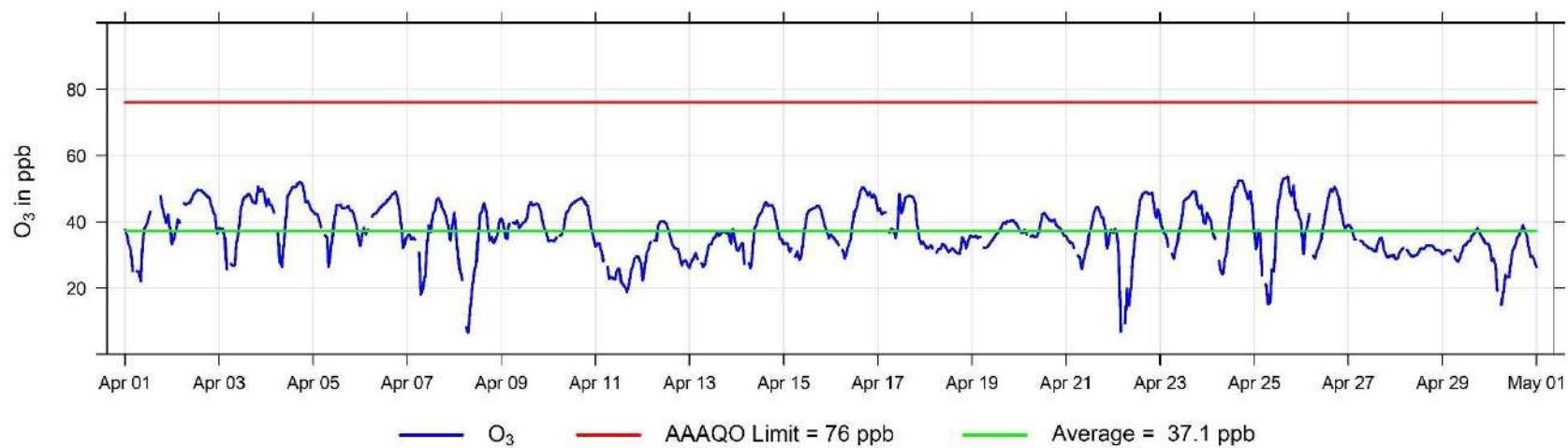
April 2022 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



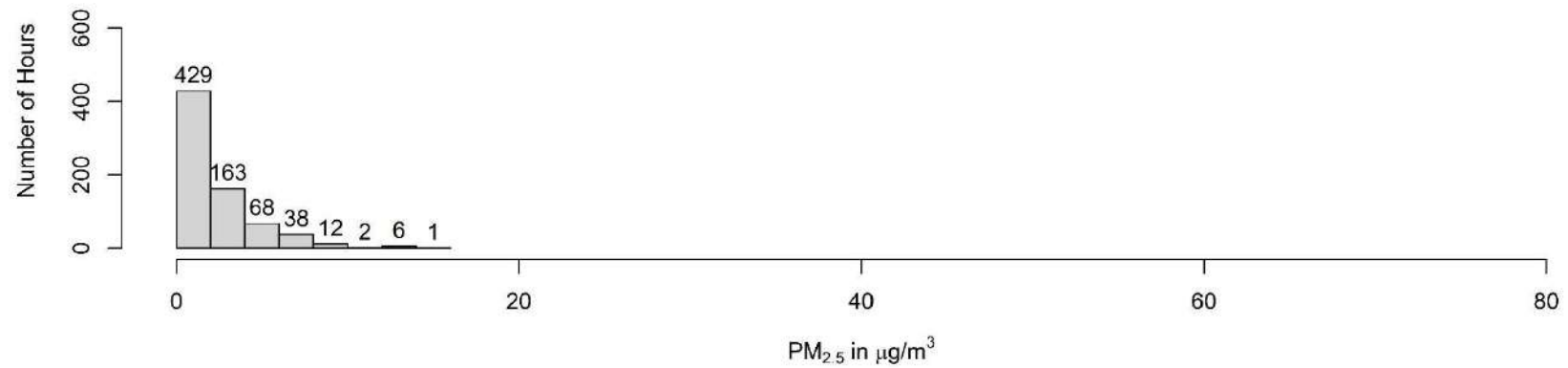
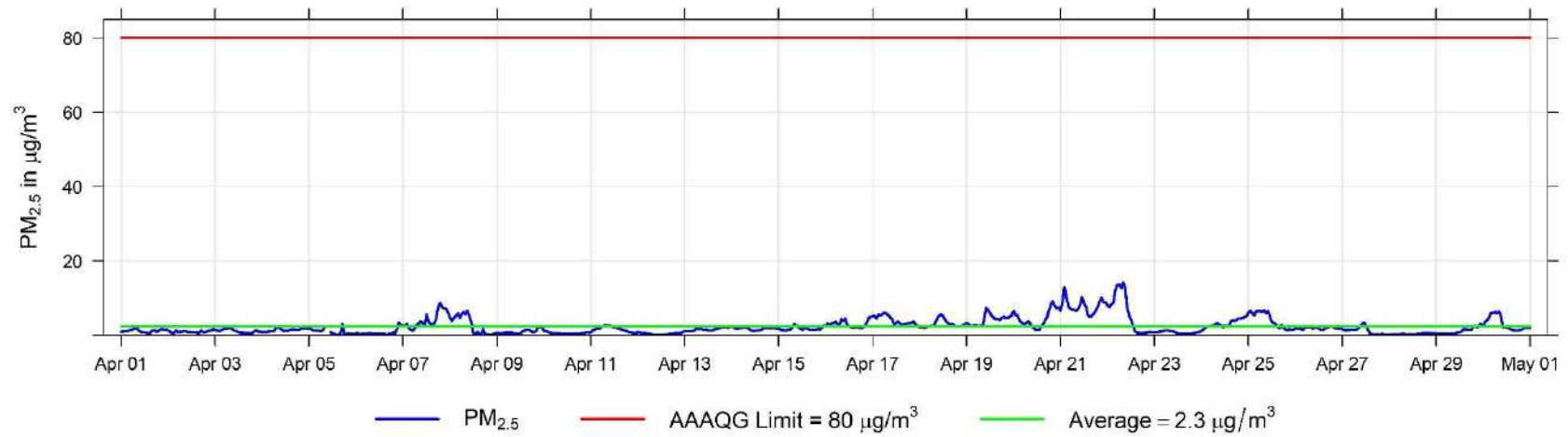
April 2022 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



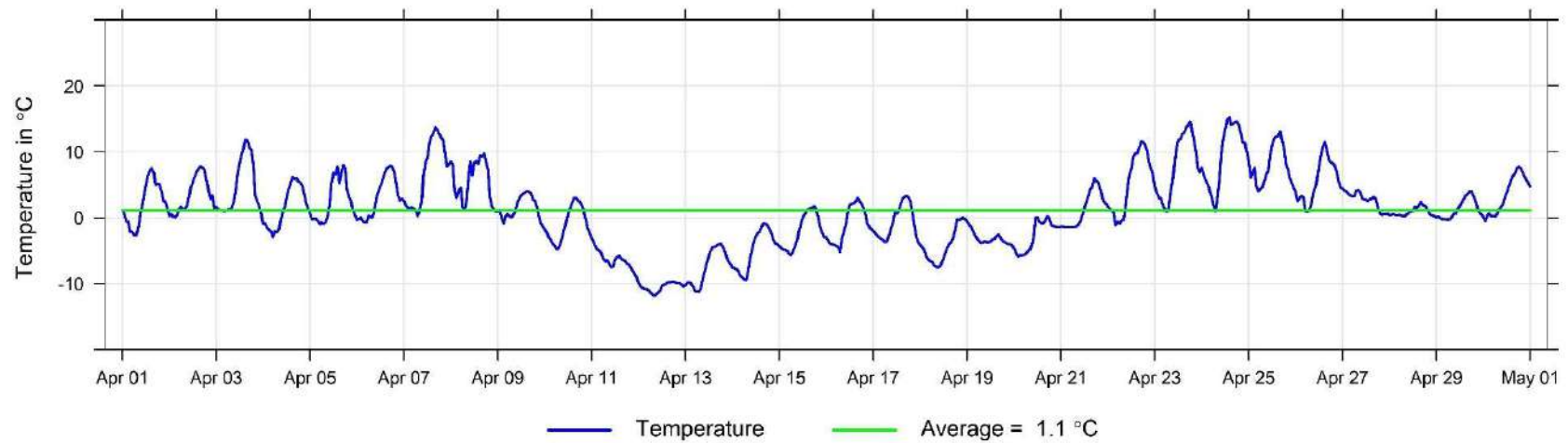
April 2022 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



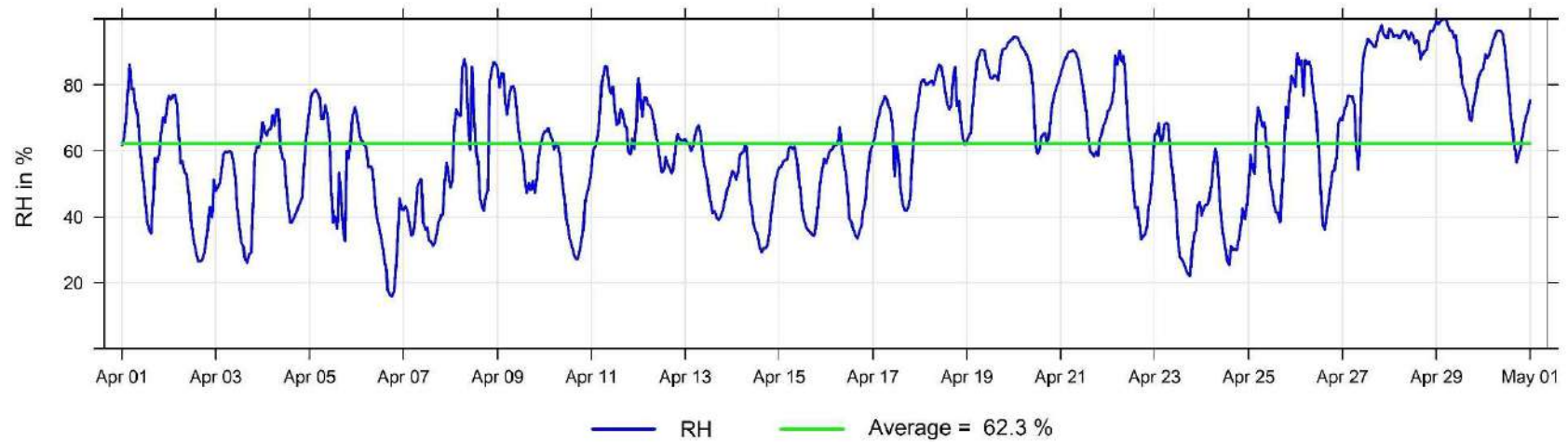
April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



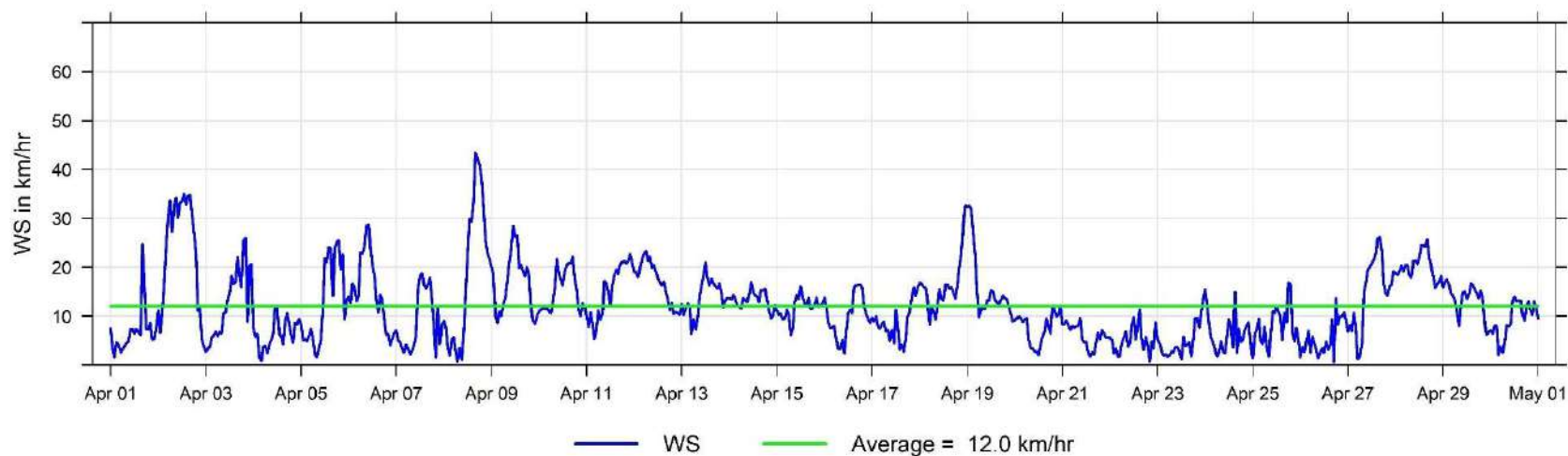
April 2022 Hourly Temperature Readings (in °C) at Beaverlodge



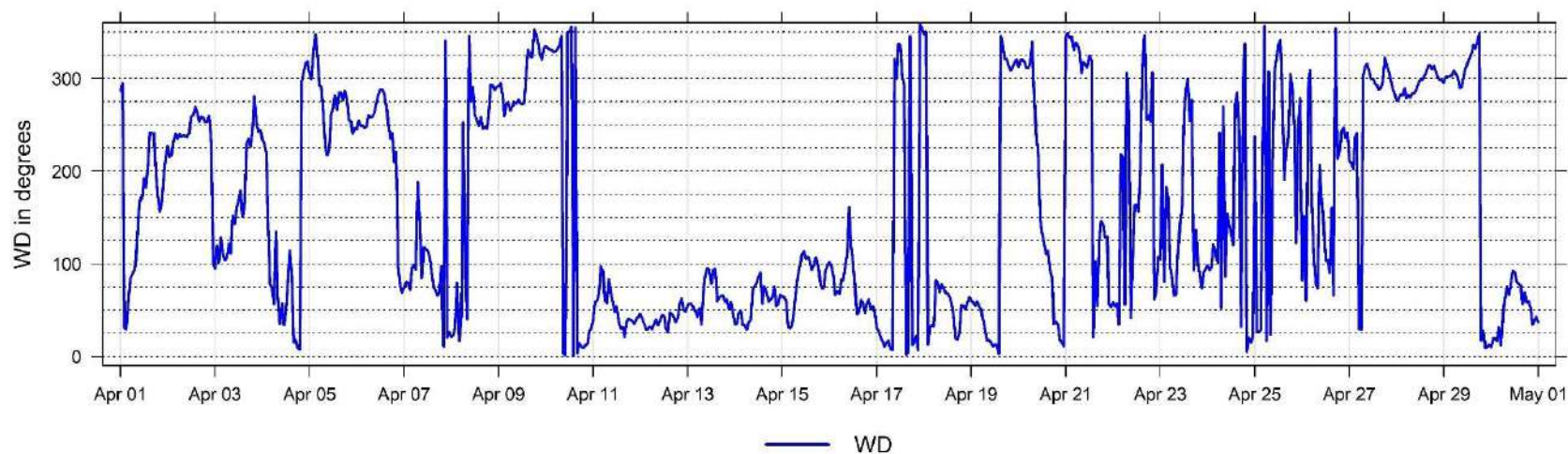
April 2022 Hourly Readings of Relative Humidity (in %) at Beaverlodge



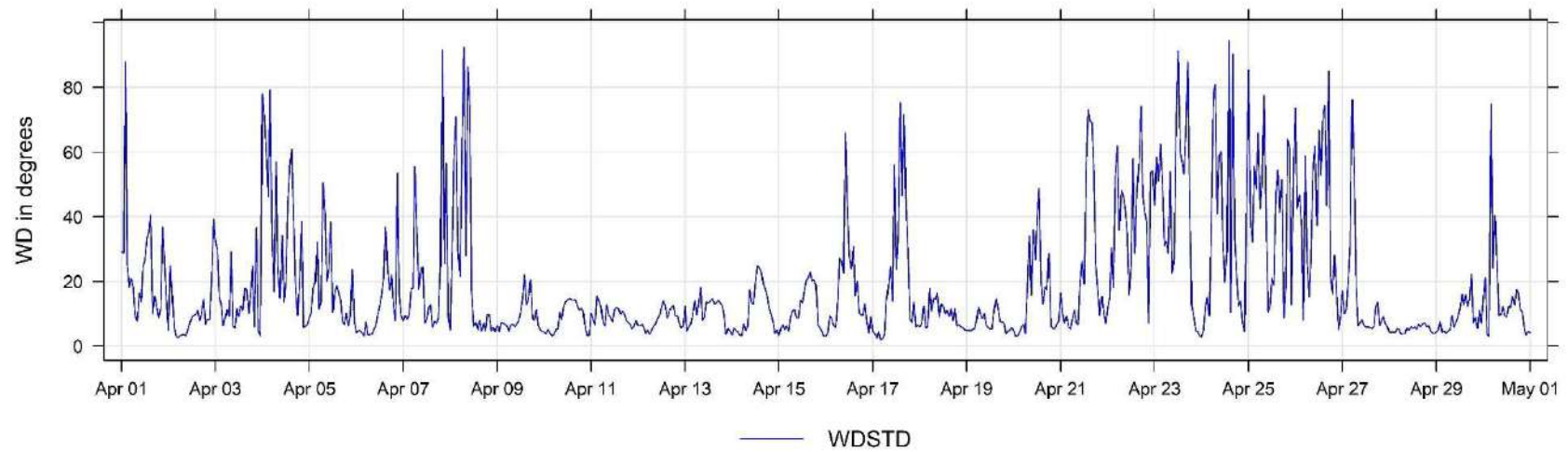
April 2022 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

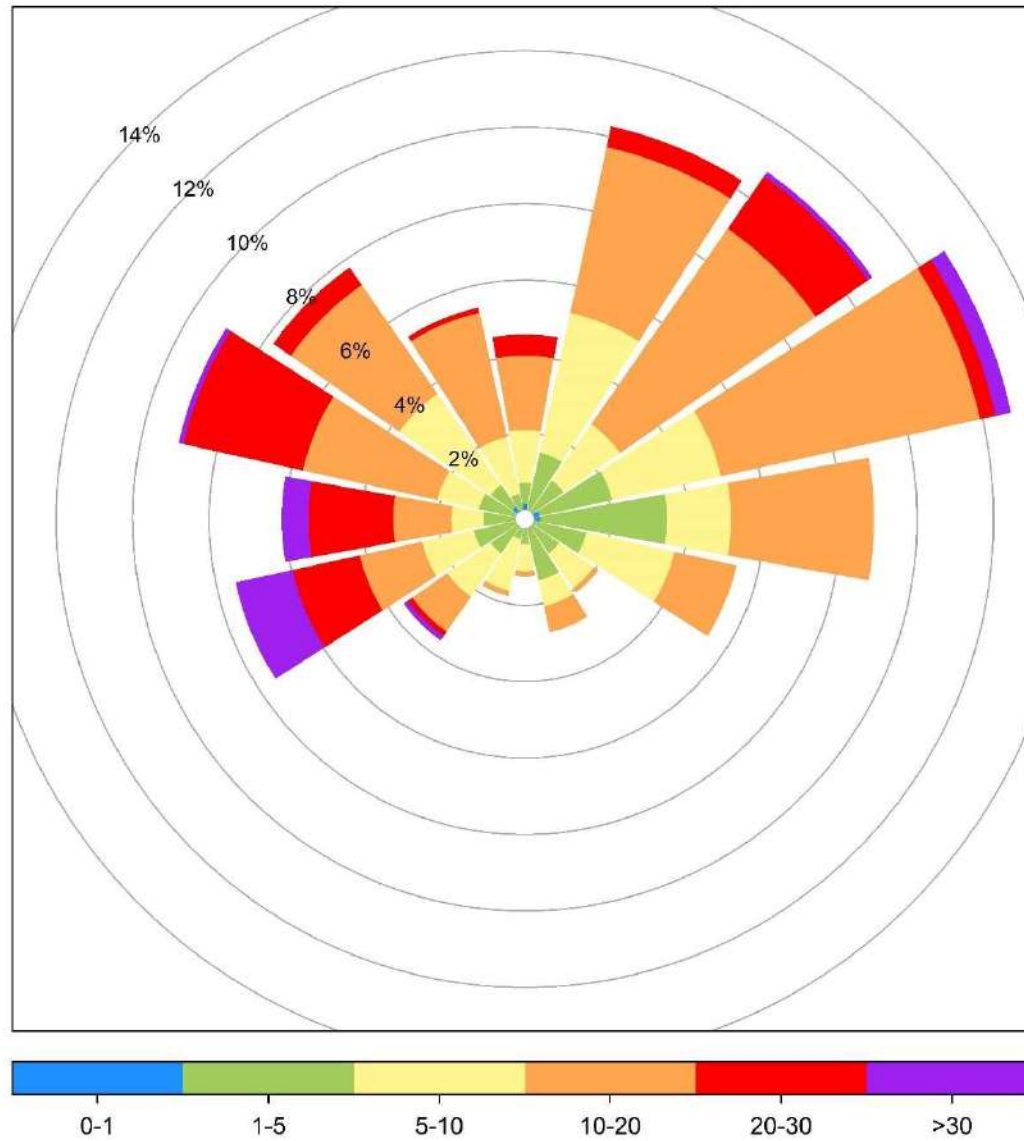


April 2022 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge



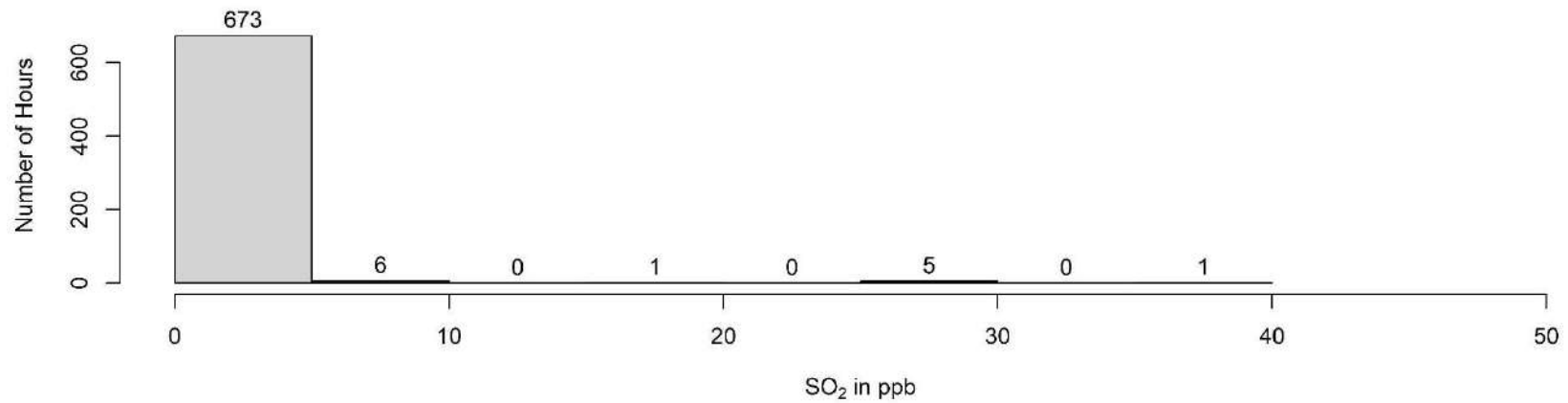
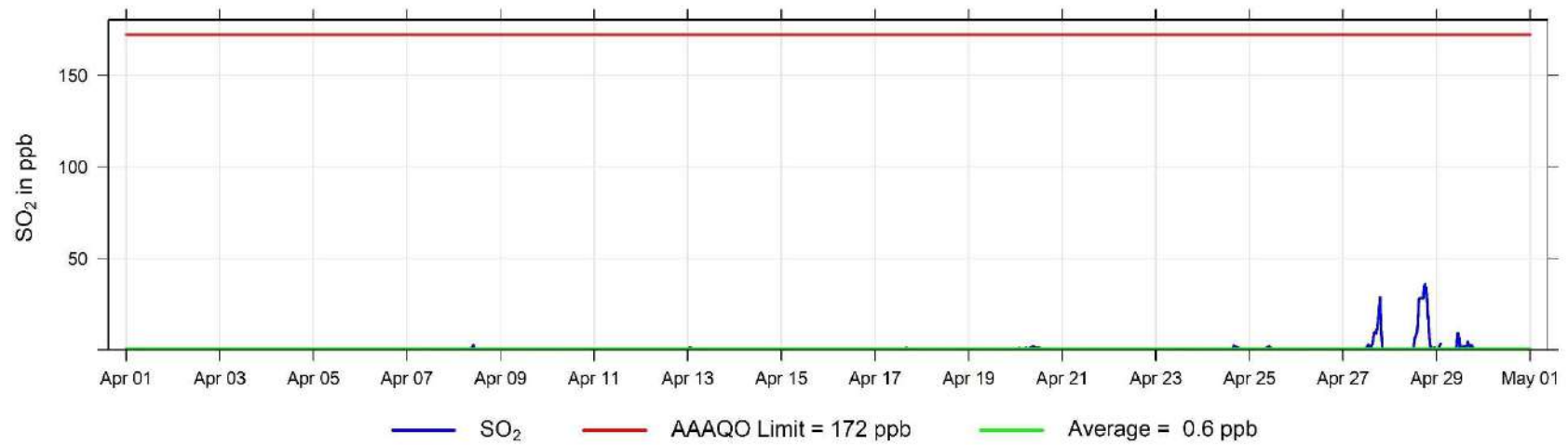


Beaverlodge April 2022 Wind Rose, wind speed in km/hr

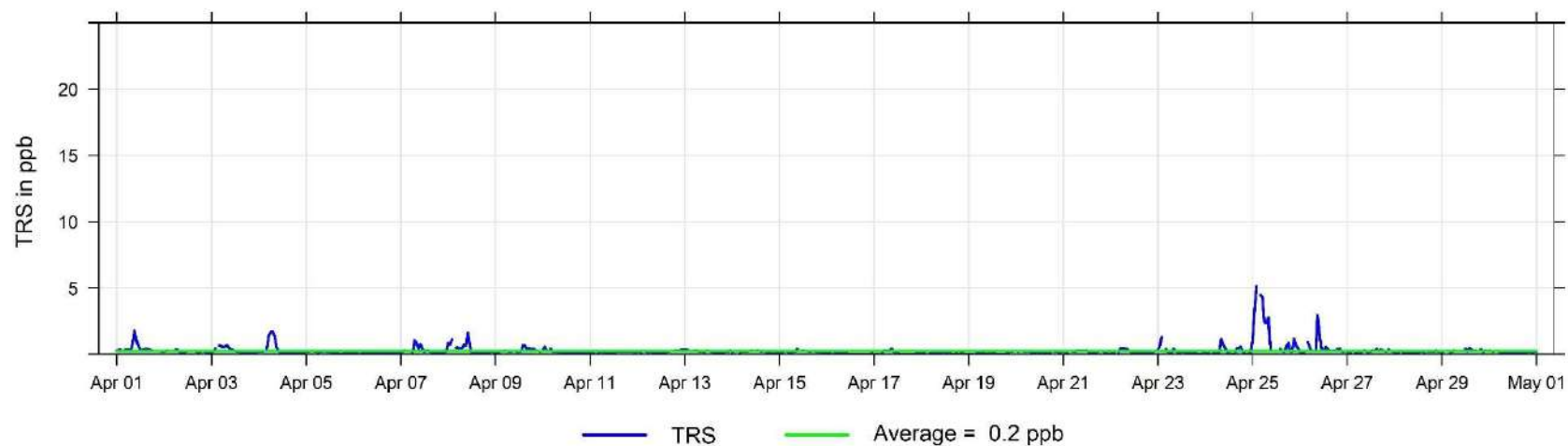
3 Dunes Charts

The following pages include the charts and histograms for Dunes Station

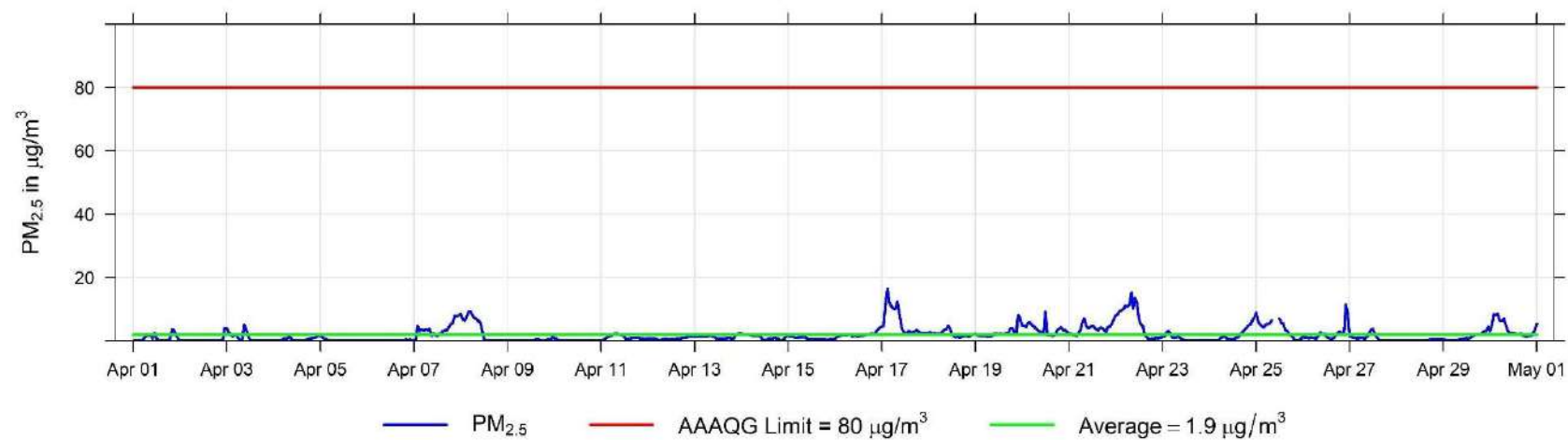
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Dunes

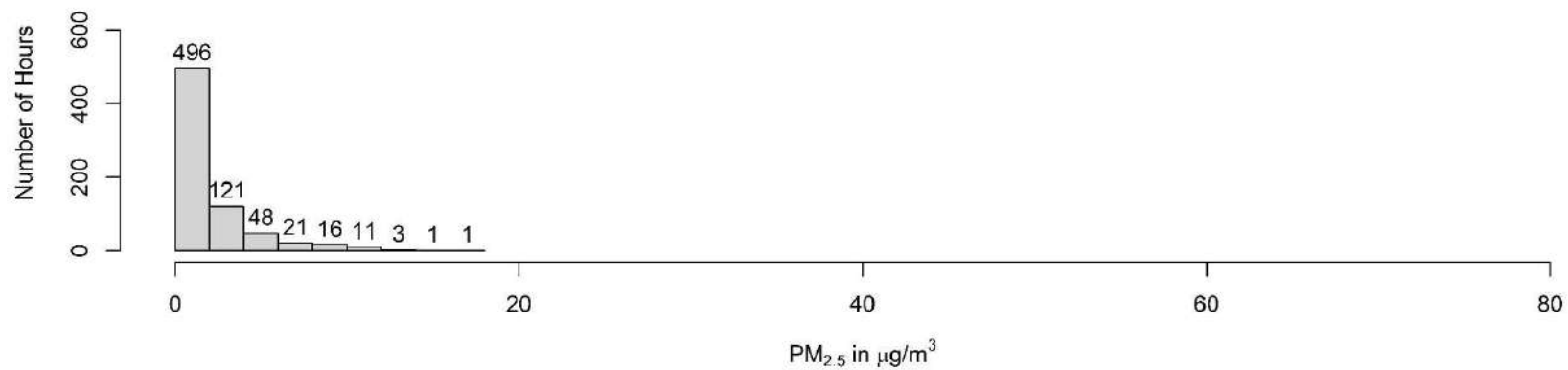


April 2022 Hourly Concentration Readings of TRS (in ppb) at Dunes

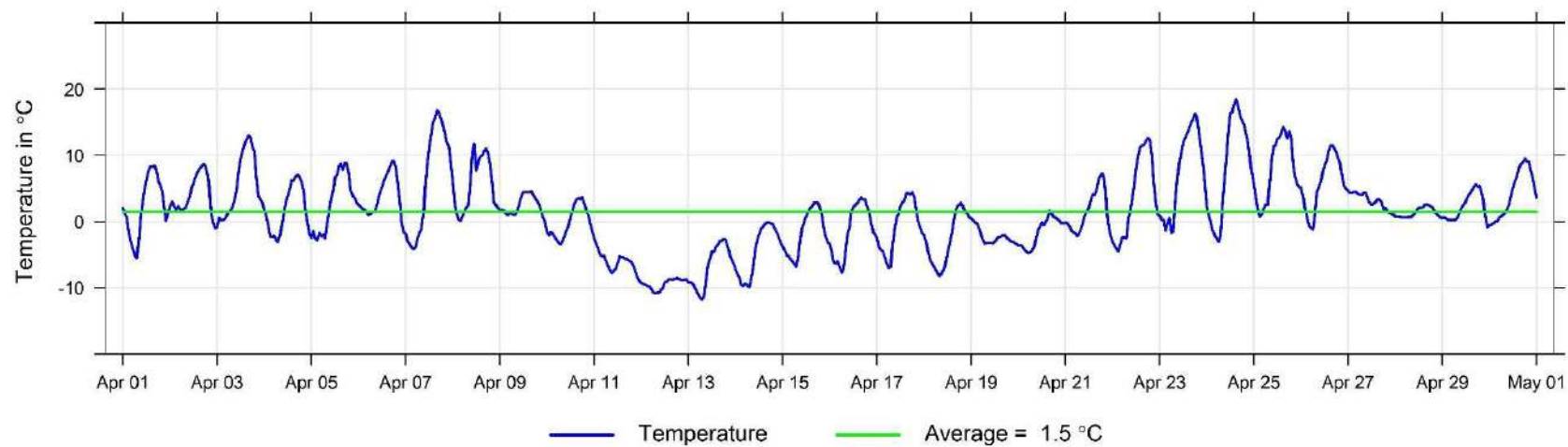


April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes

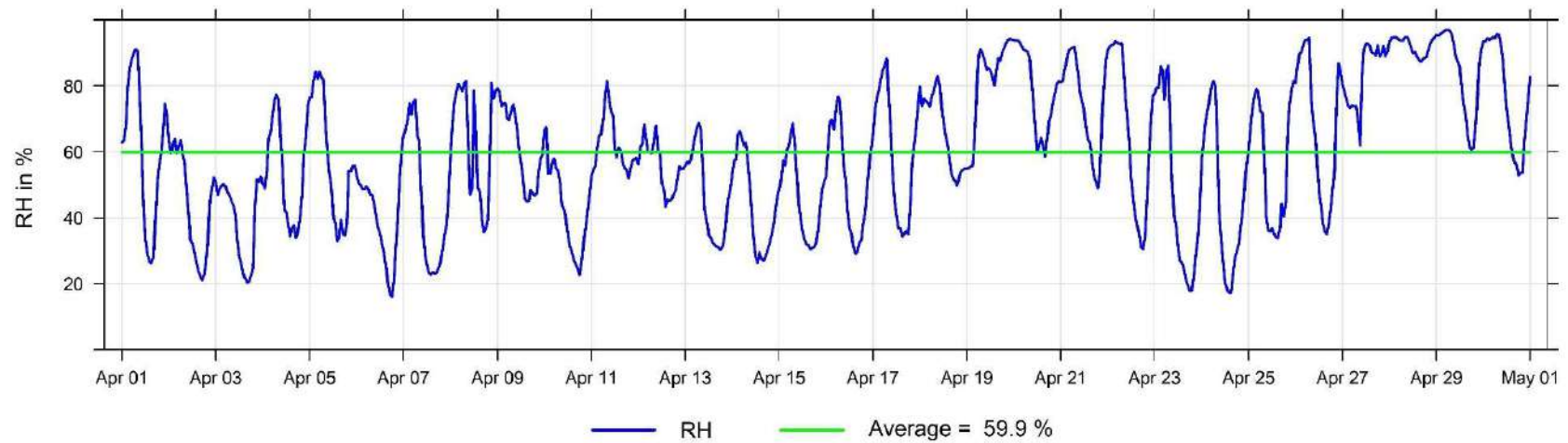




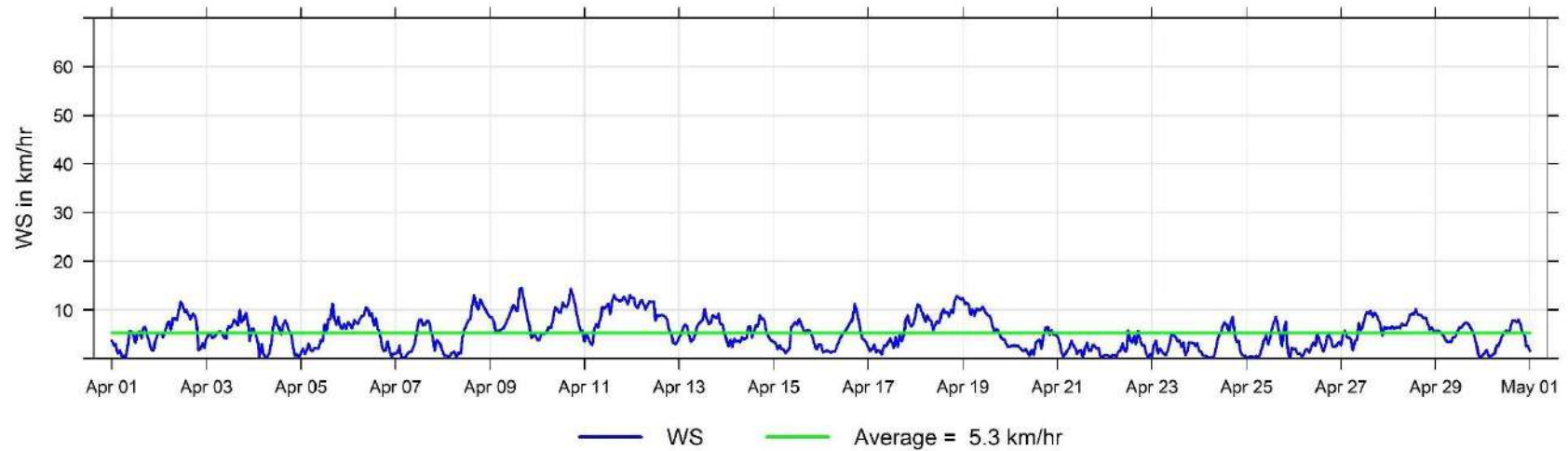
April 2022 Hourly Temperature Readings (in °C) at Dunes



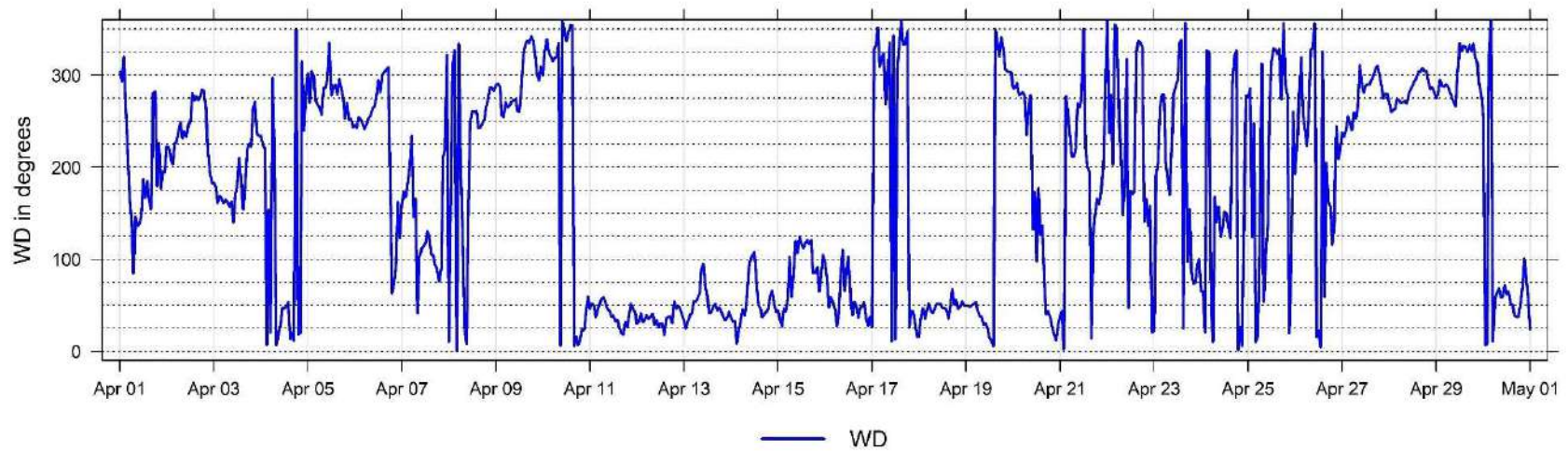
April 2022 Hourly Readings of Relative Humidity (in %) at Dunes



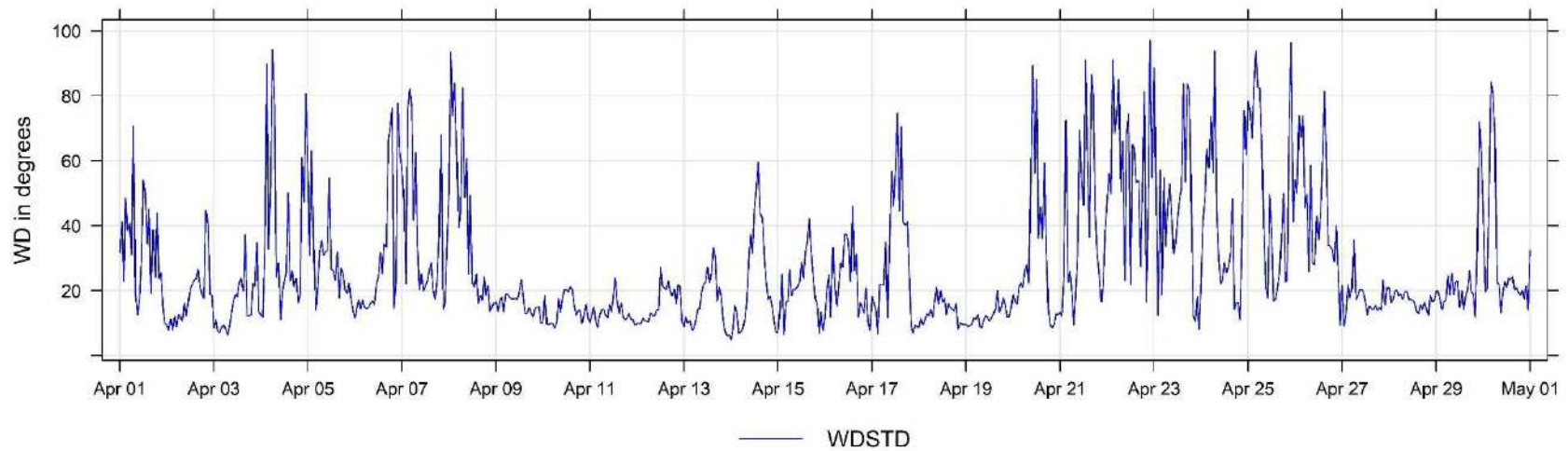
April 2022 Hourly Readings of Wind Speed (in km/hr) at Dunes

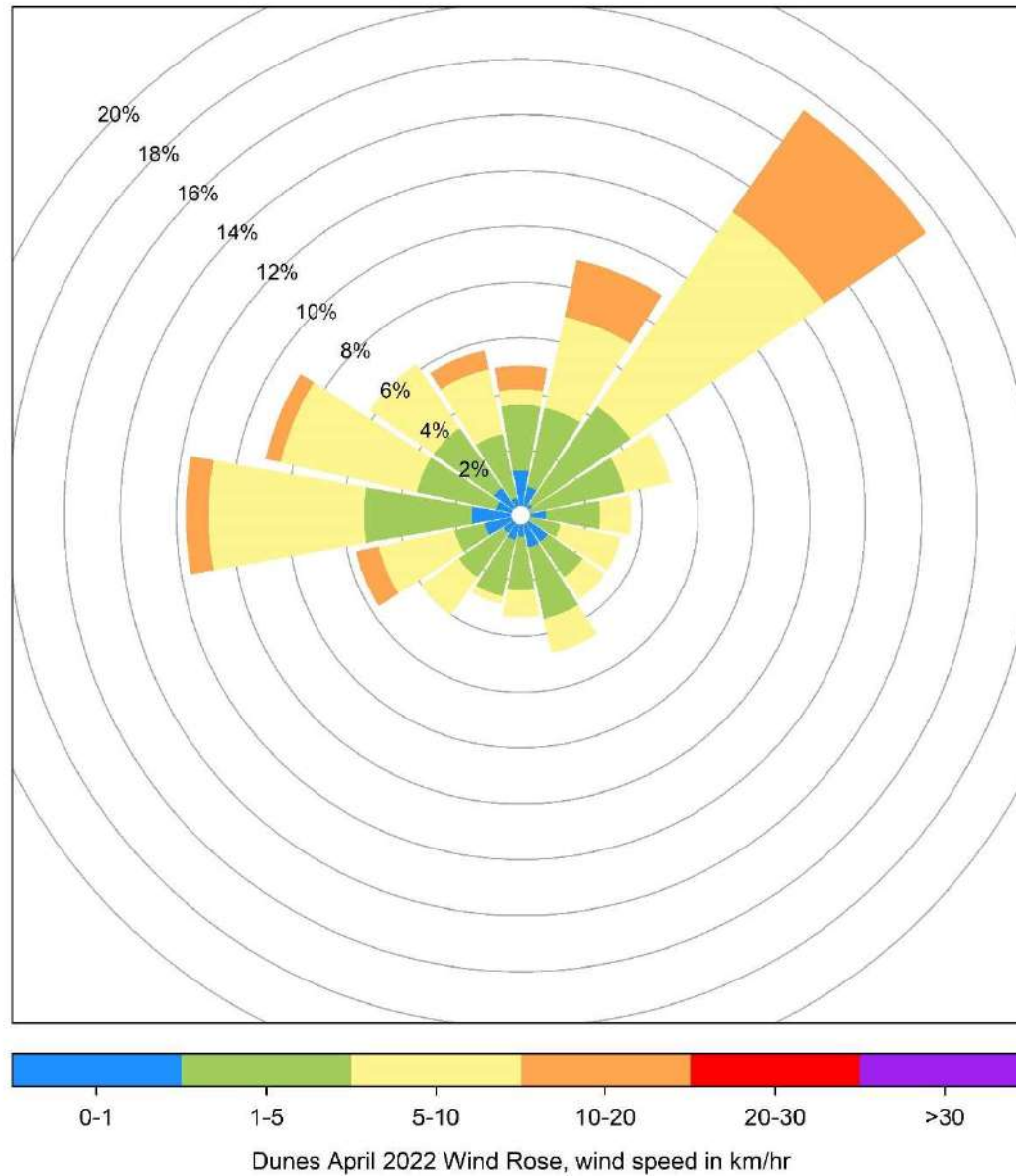


April 2022 Hourly Readings of Wind Direction (in degrees) at Dunes



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes

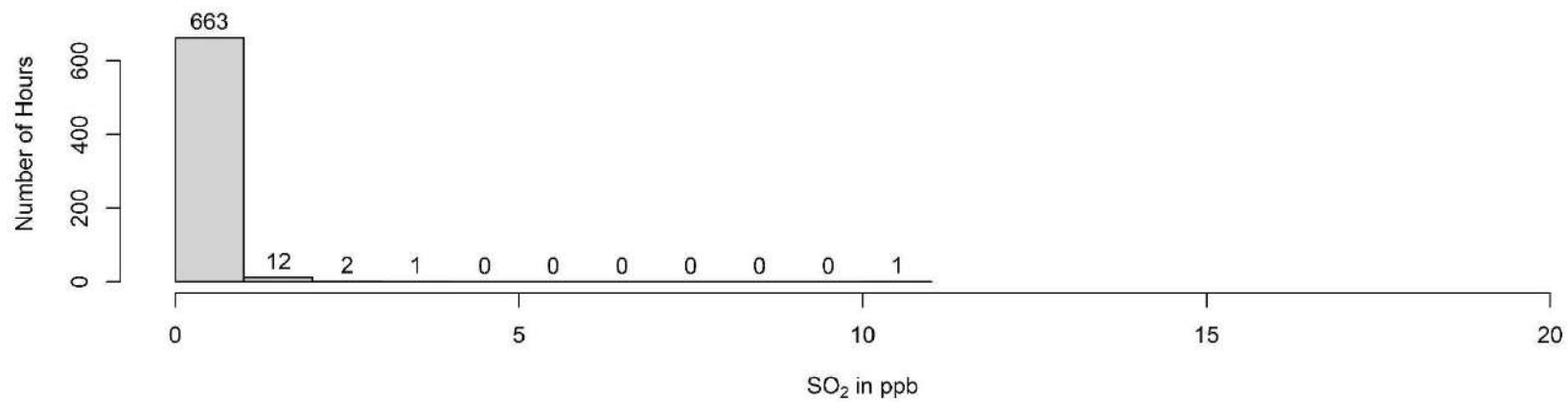
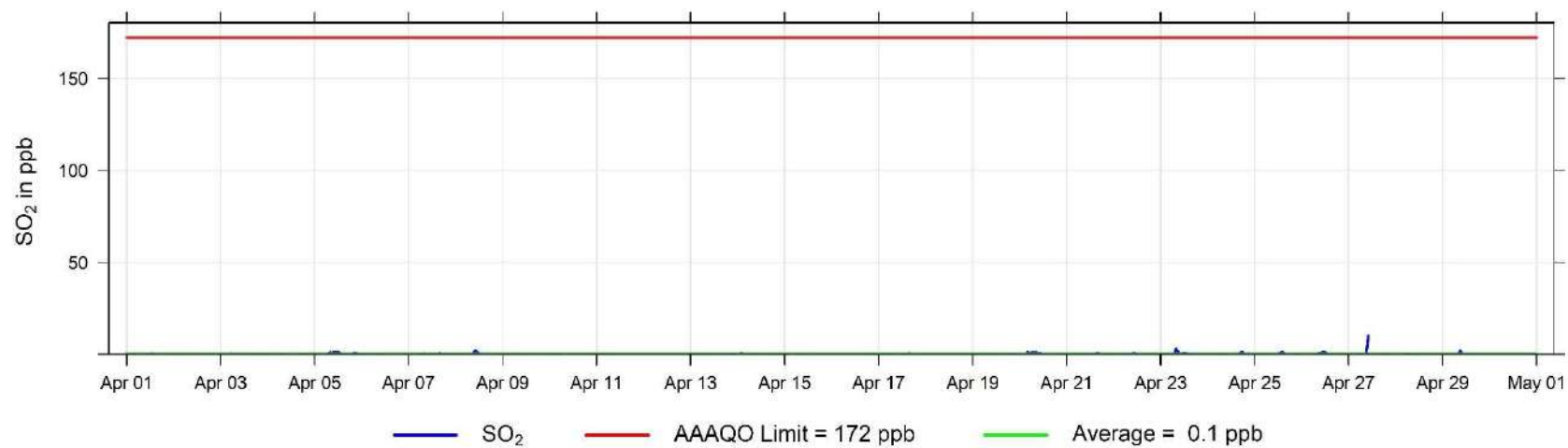




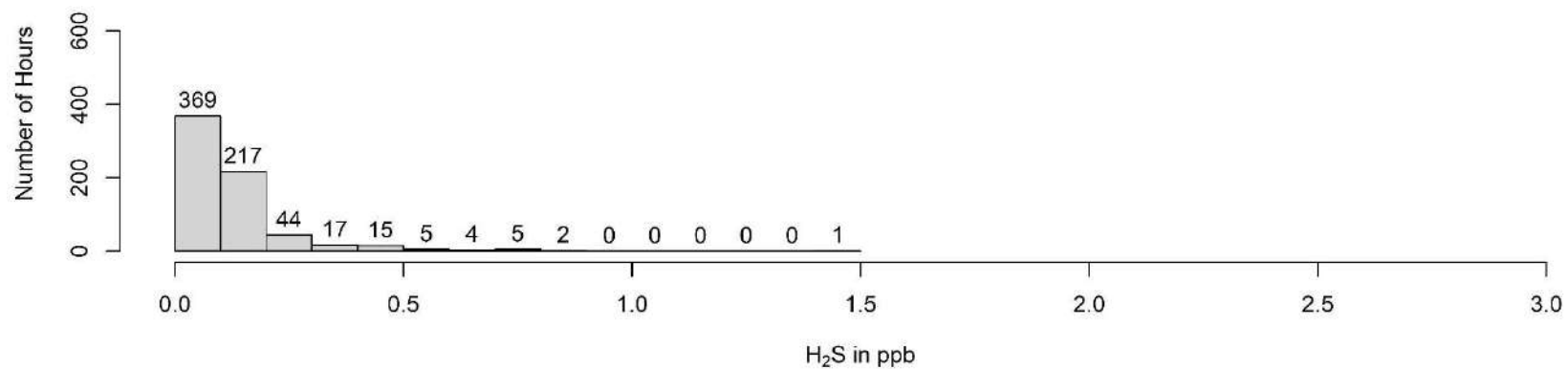
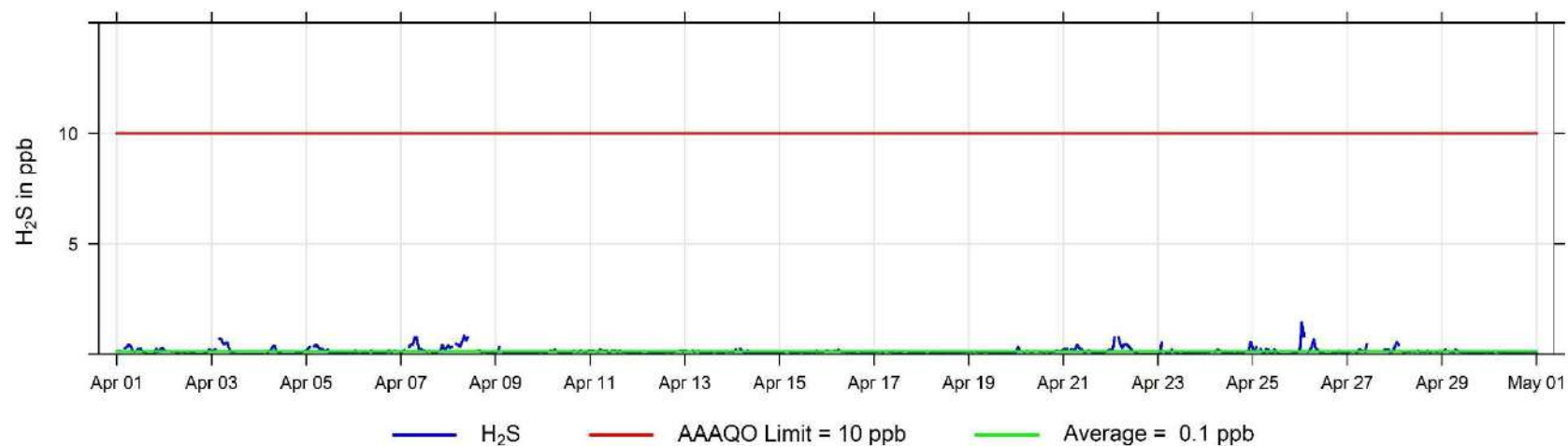
4 Grande Prairie - Henry Pirker Charts

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

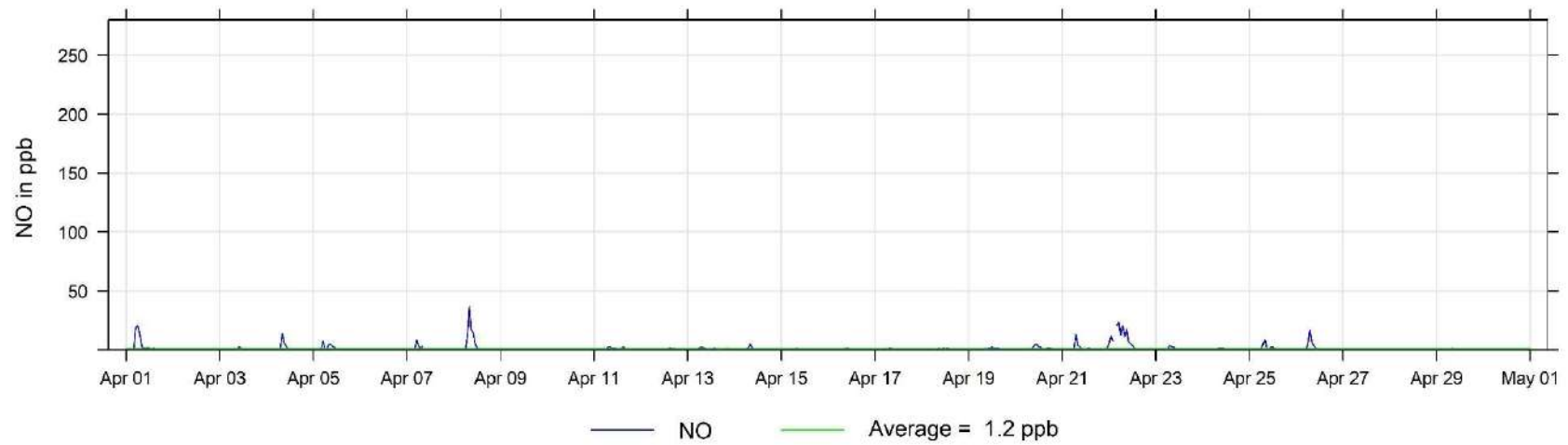
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



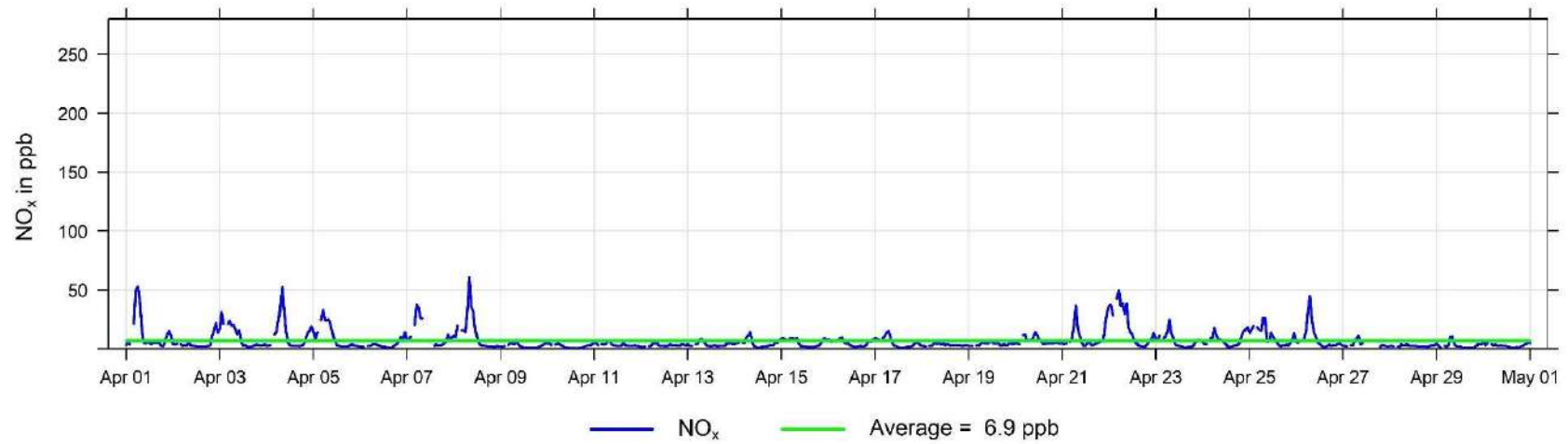
April 2022 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



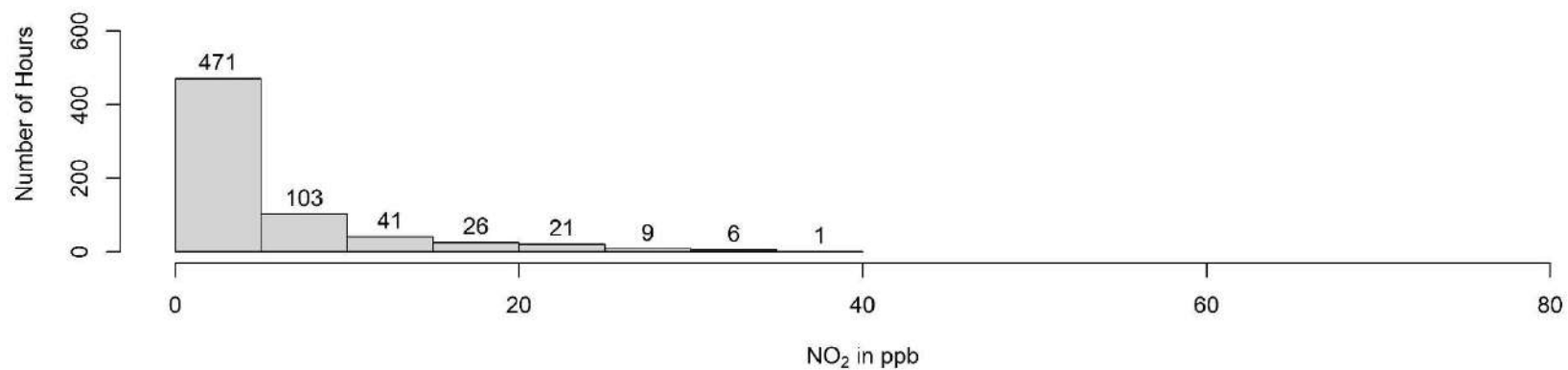
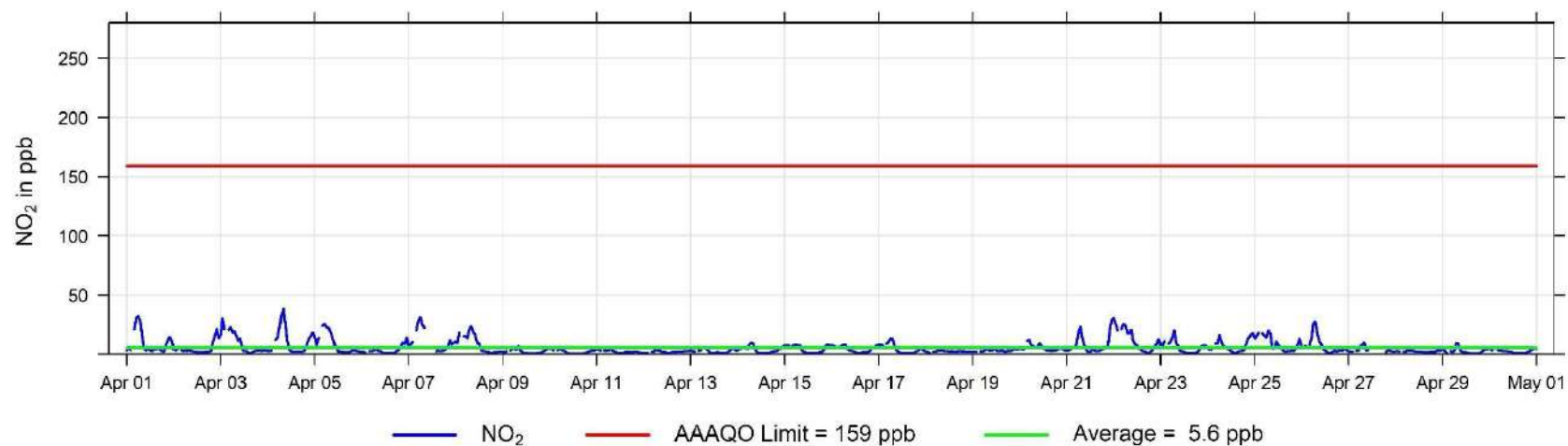
April 2022 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



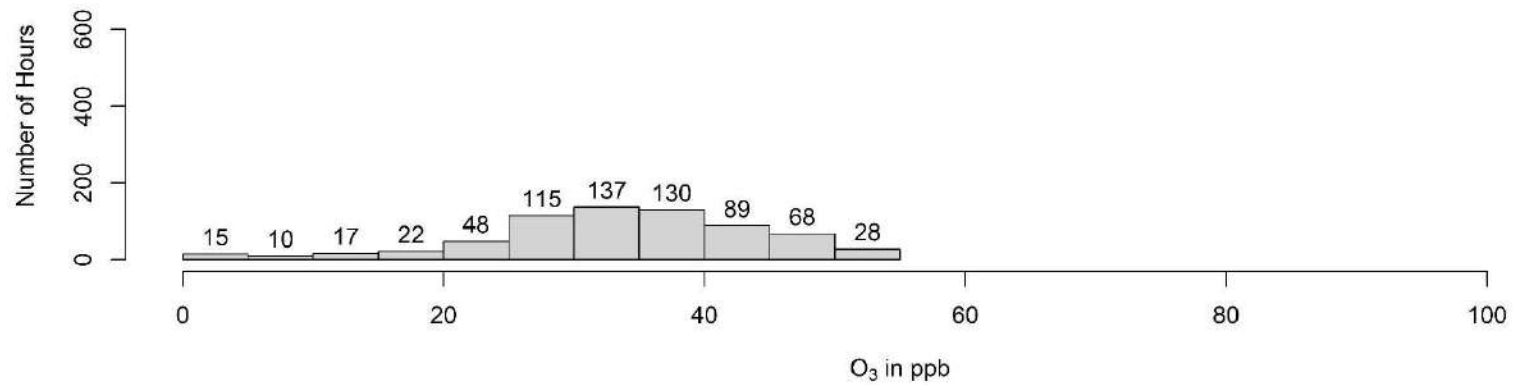
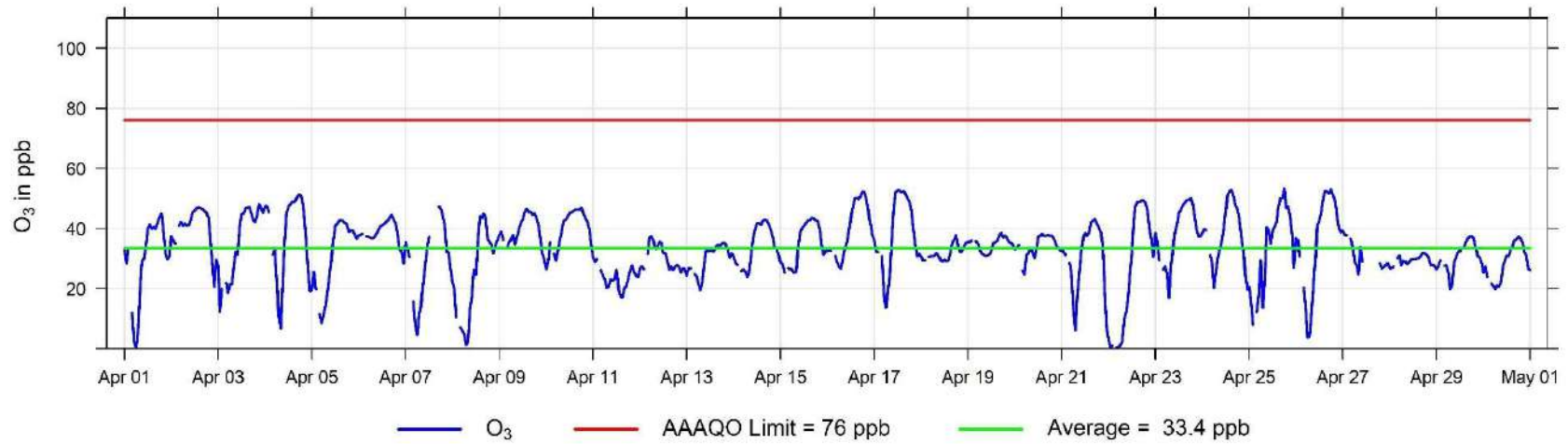
April 2022 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



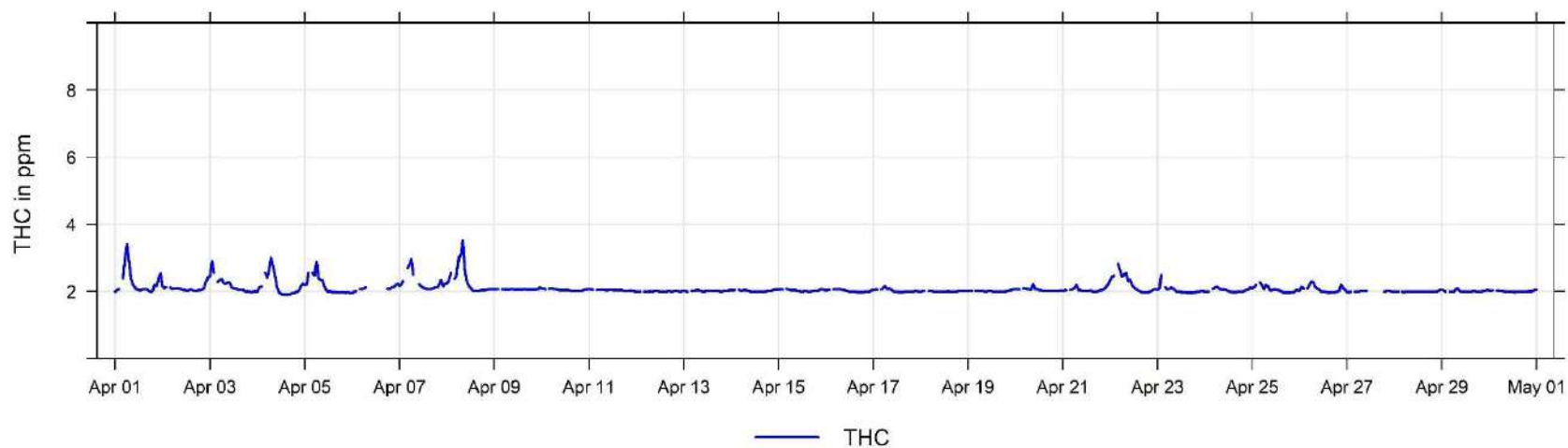
April 2022 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



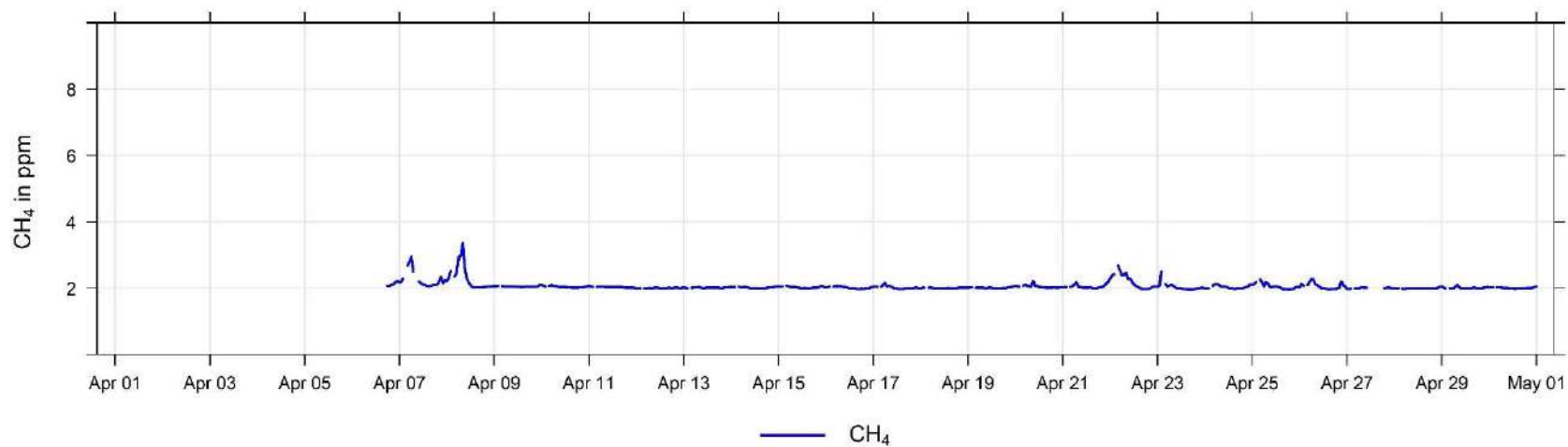
April 2022 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



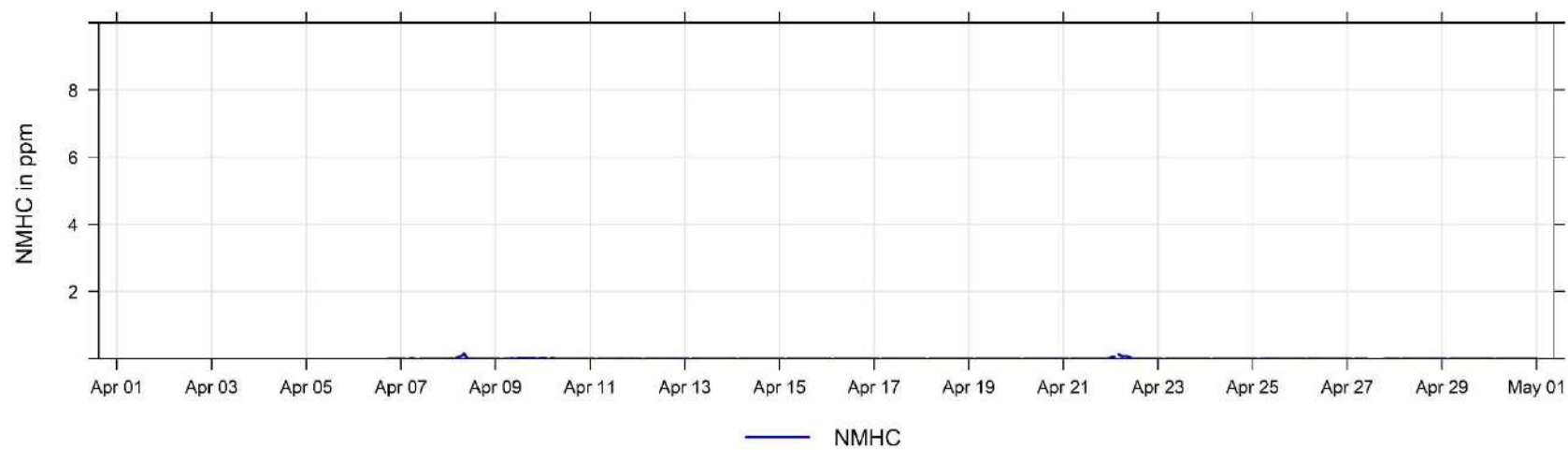
April 2022 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



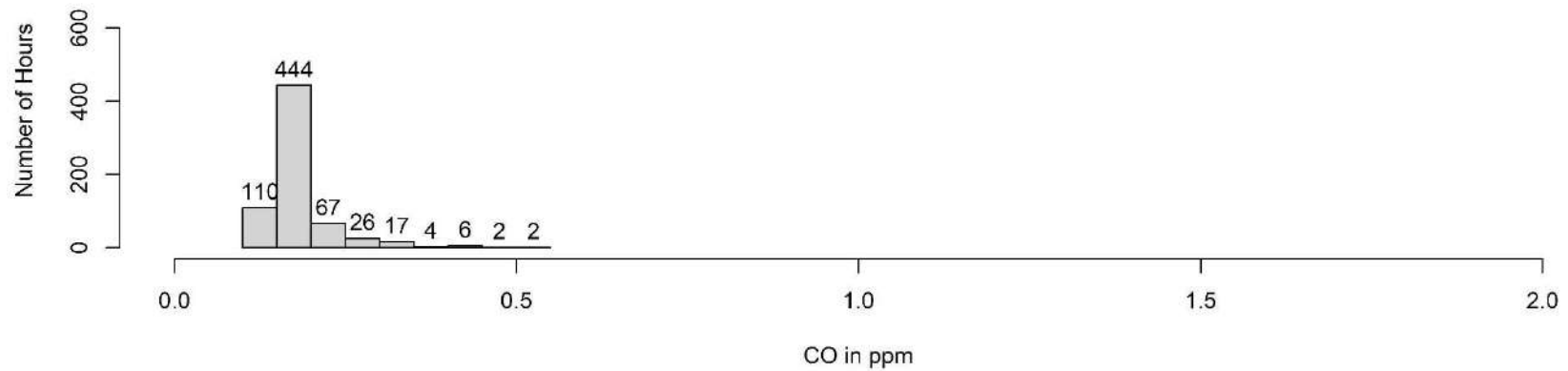
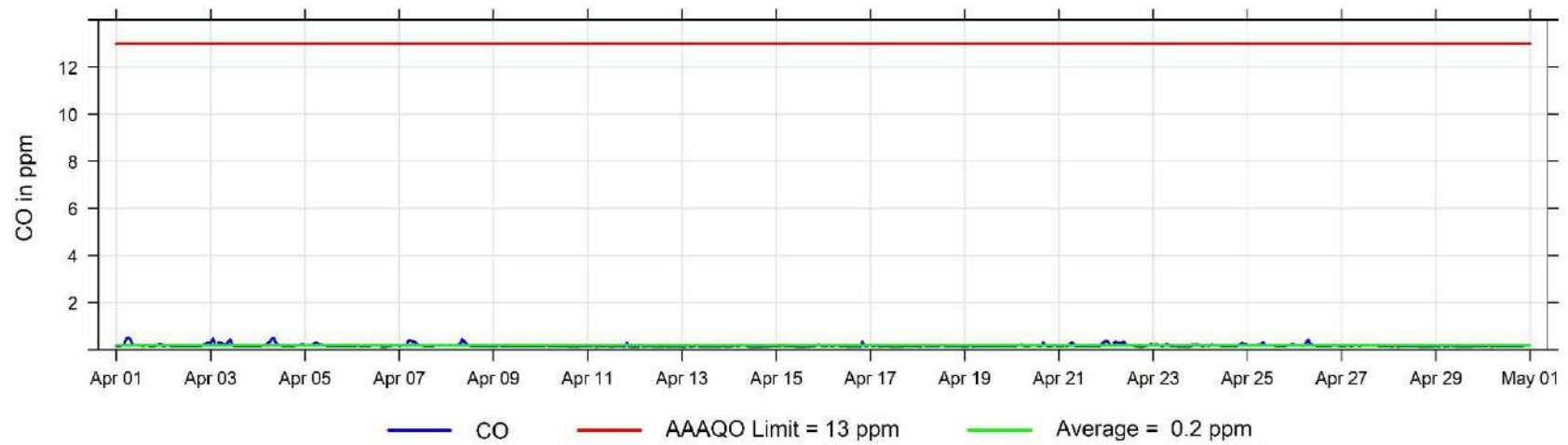
April 2022 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



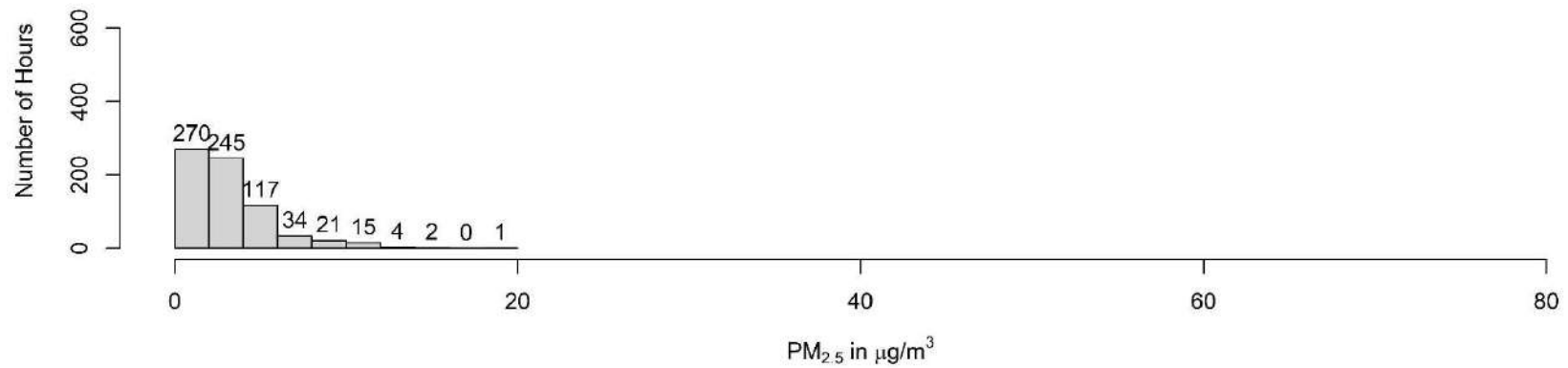
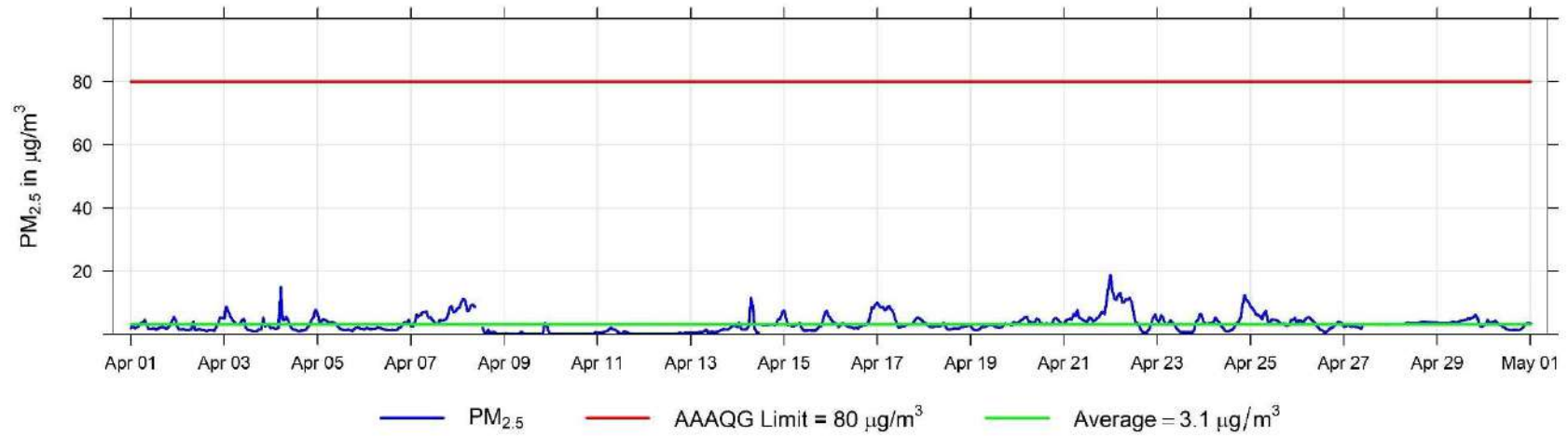
April 2022 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



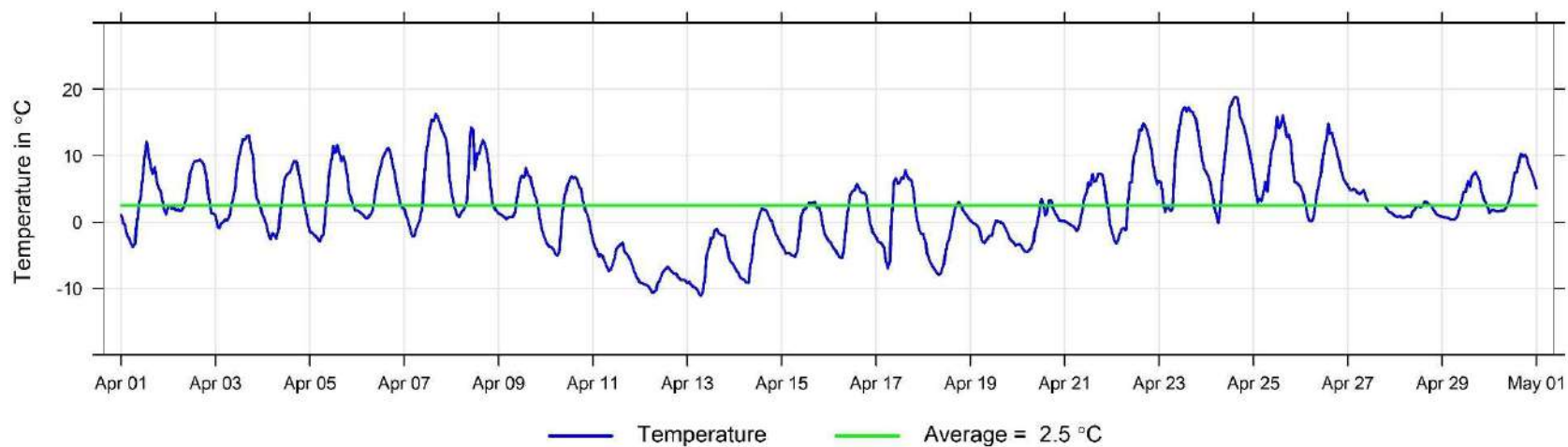
April 2022 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



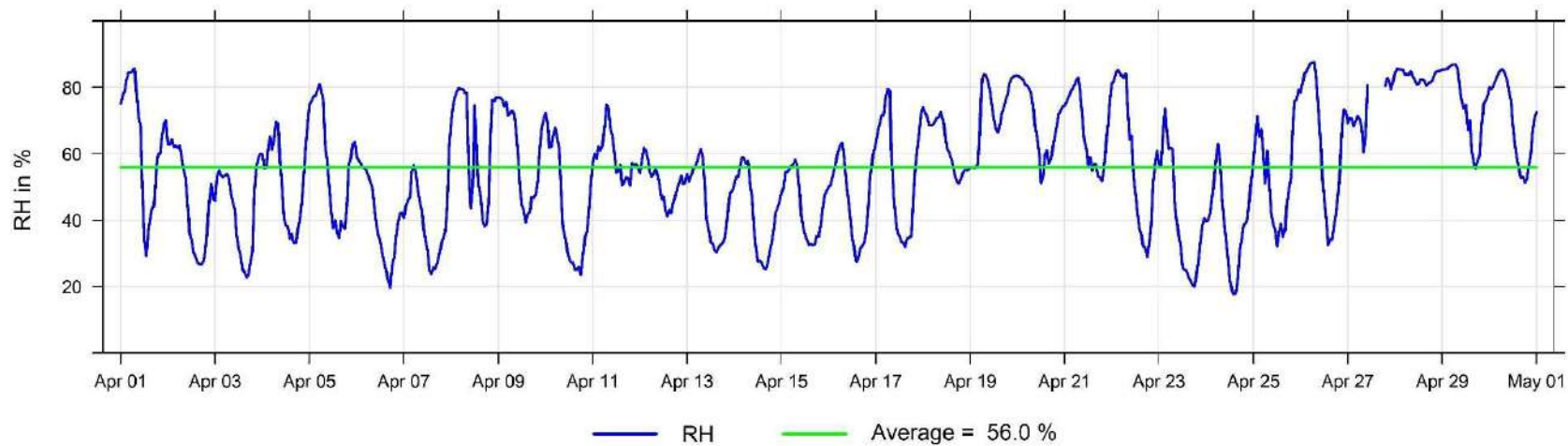
April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



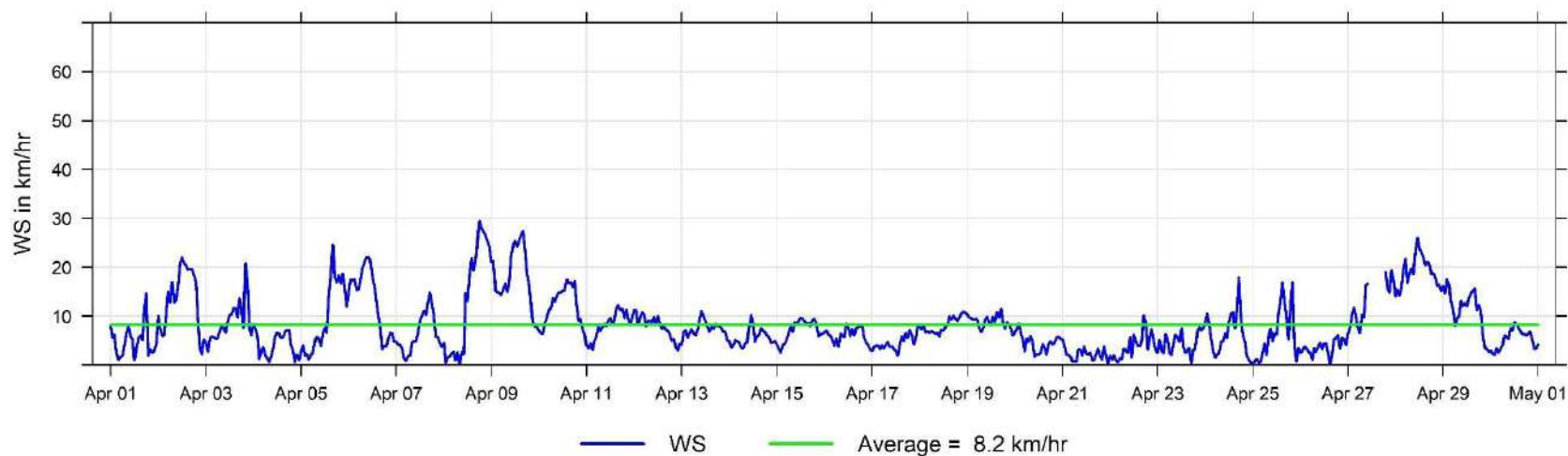
April 2022 Hourly Temperature Readings (in °C) at Henry Pirker



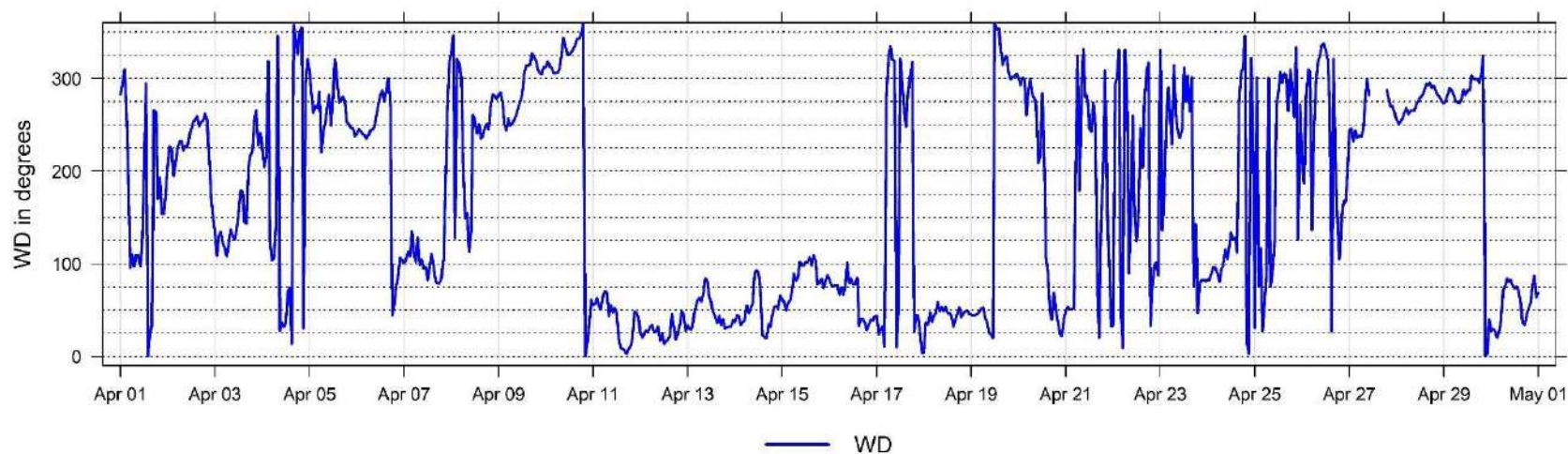
April 2022 Hourly Readings of Relative Humidity (in %) at Henry Pirker



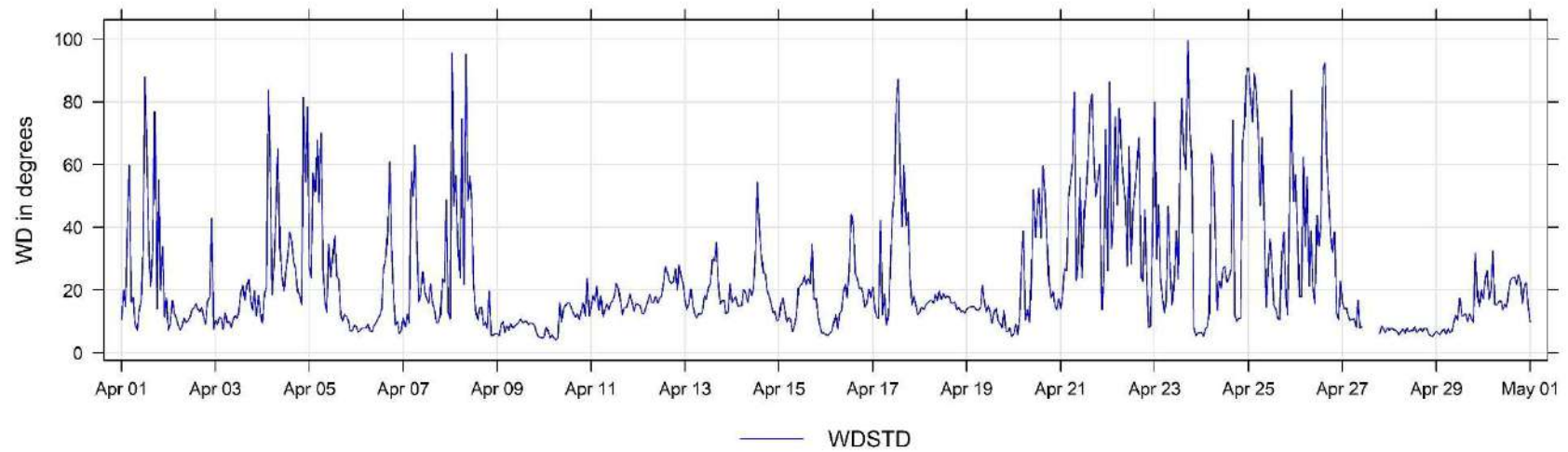
April 2022 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

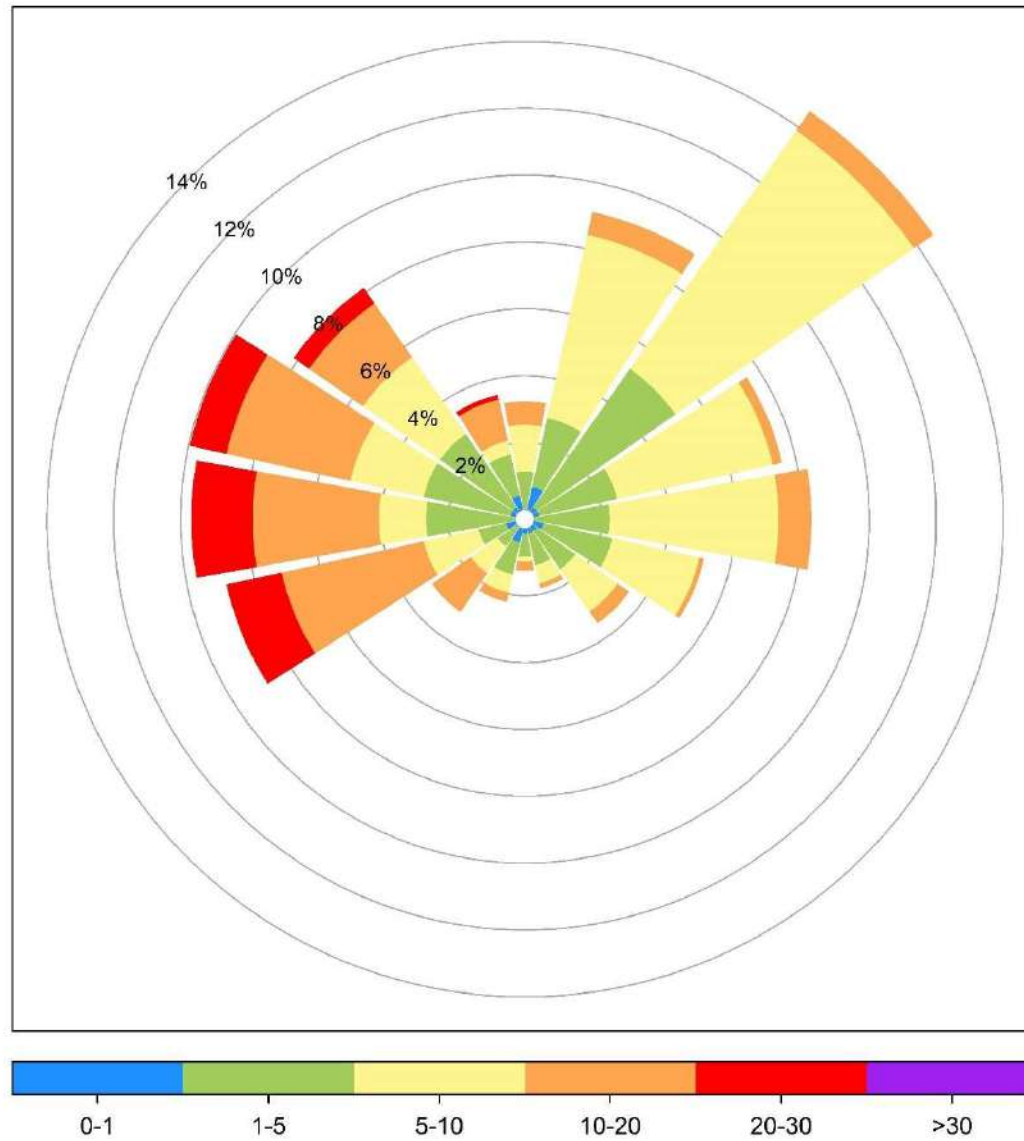


April 2022 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker



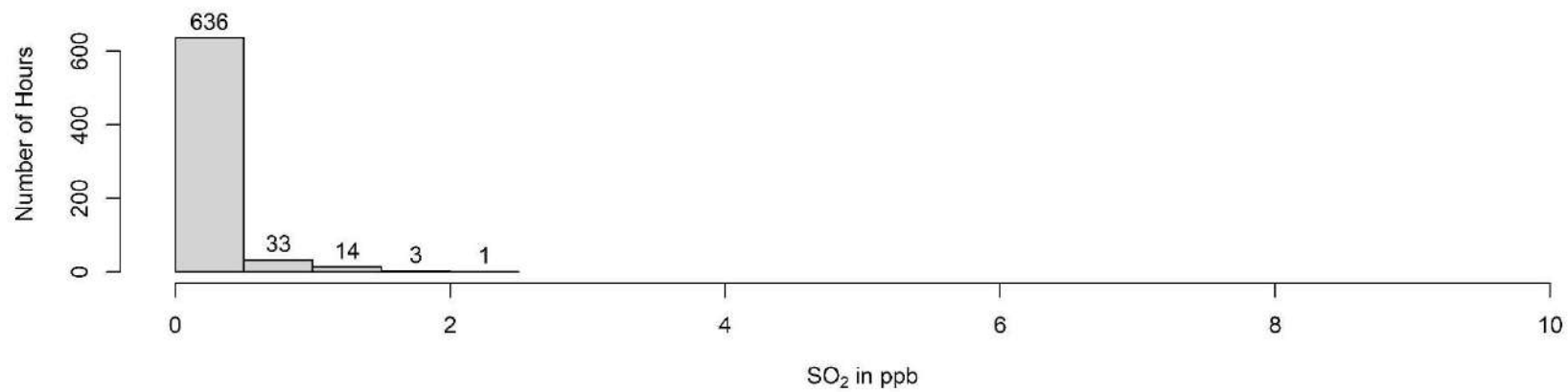
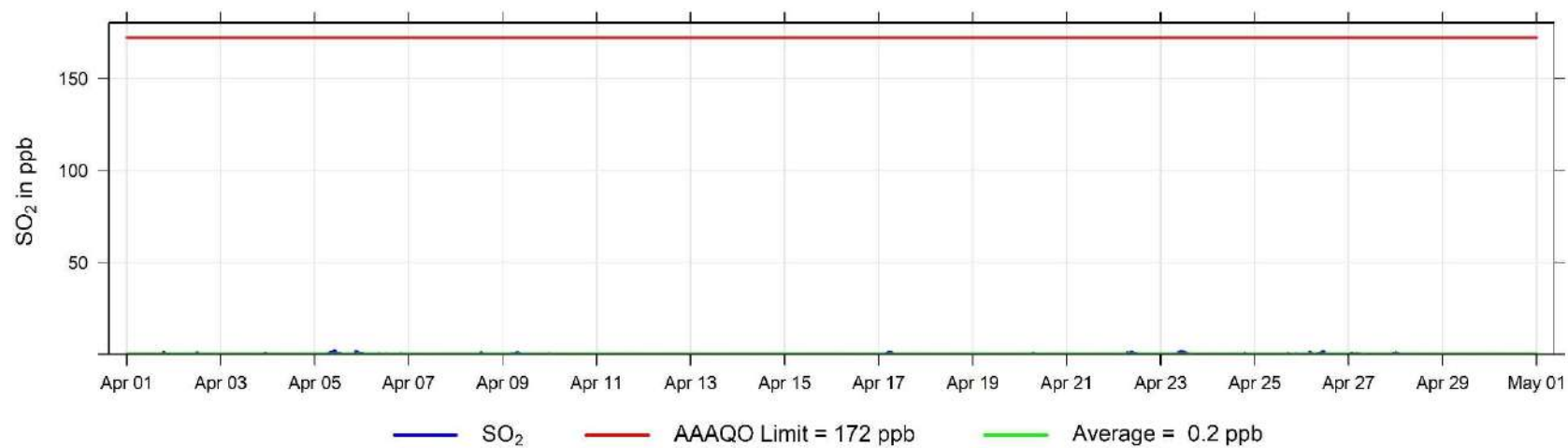


Henry Pirker April 2022 Wind Rose, wind speed in km/hr

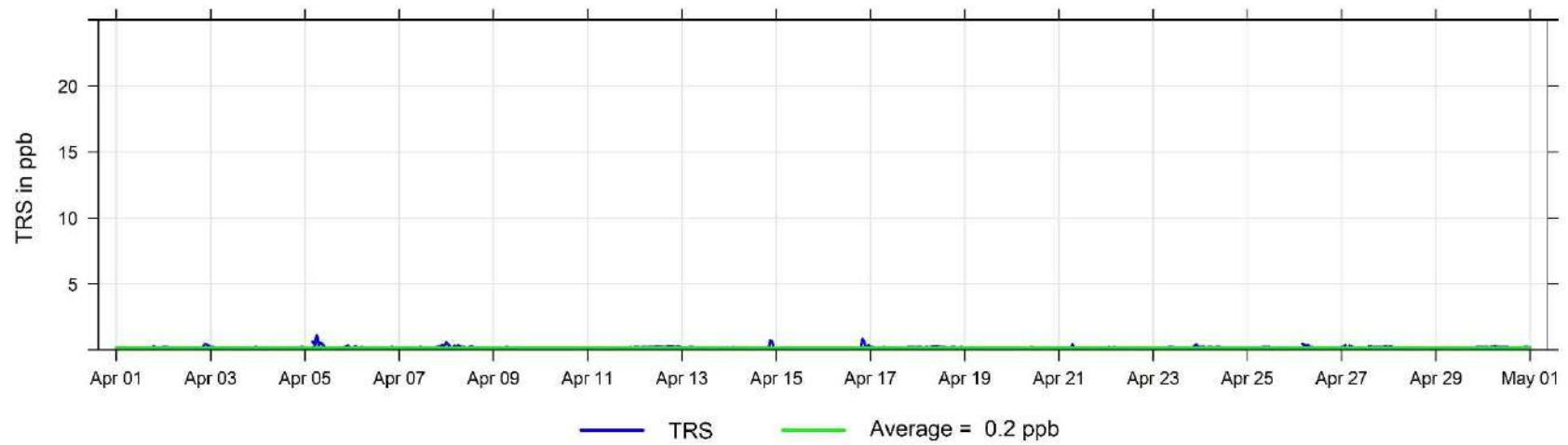
5 Smoky Heights Charts

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

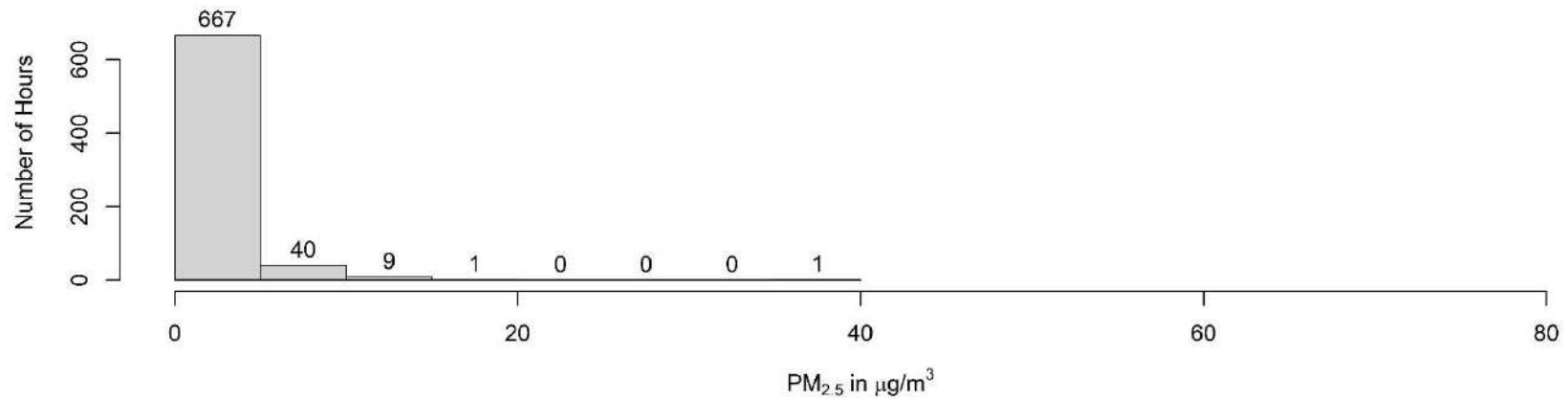
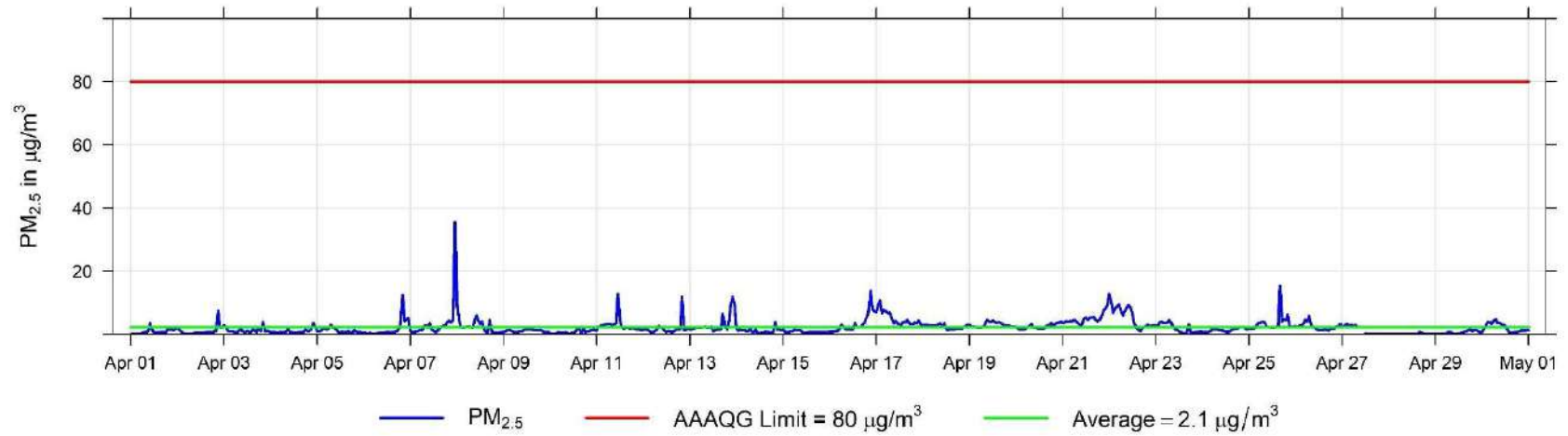
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



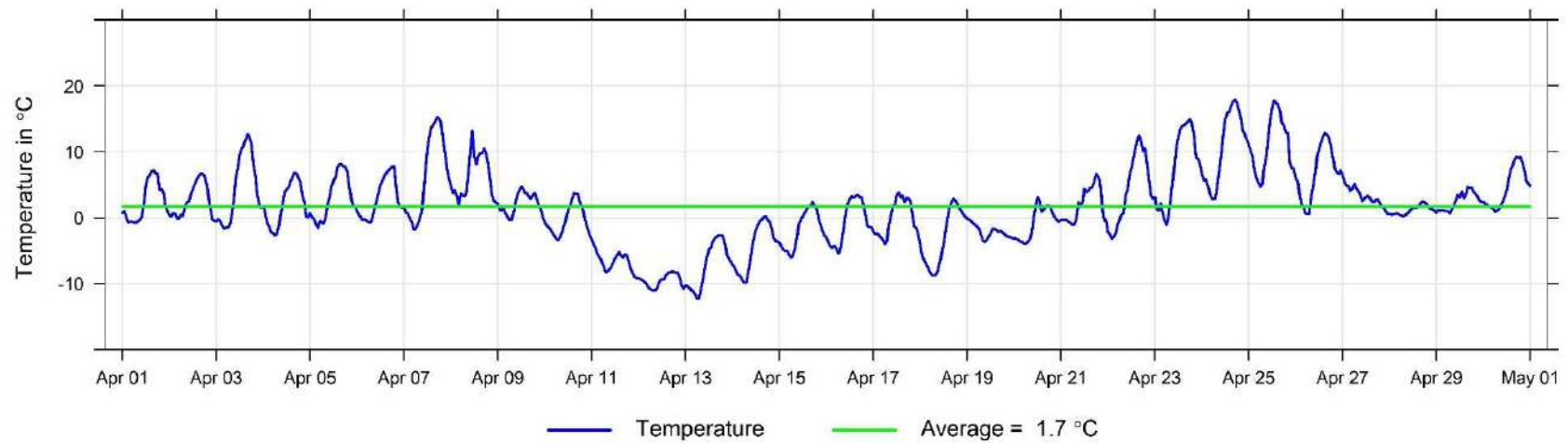
April 2022 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



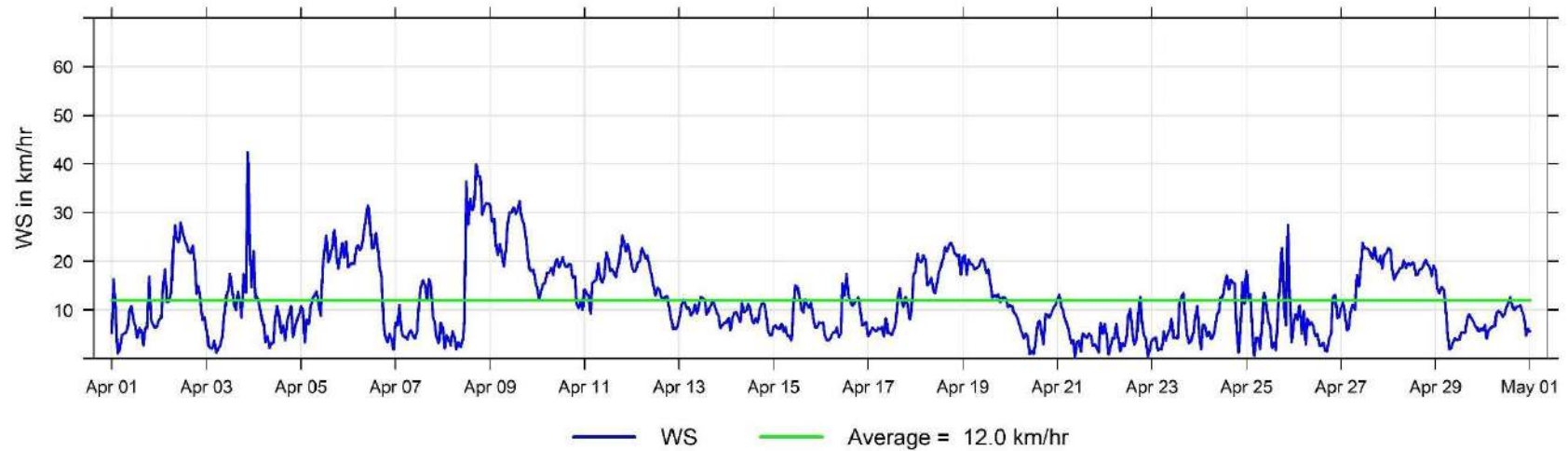
April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



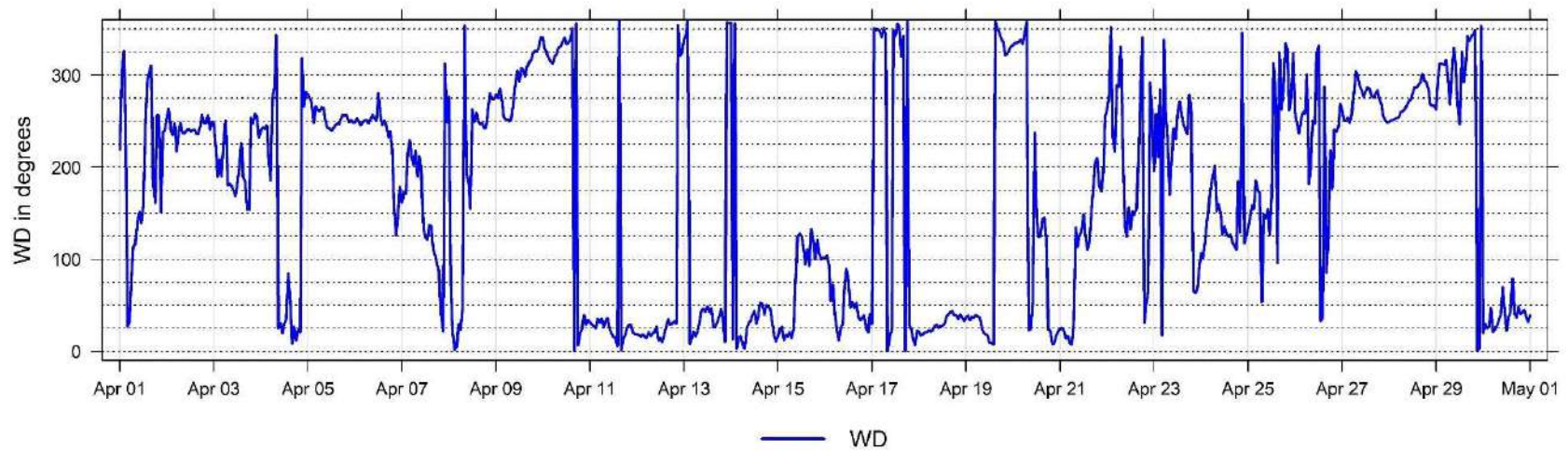
April 2022 Hourly Temperature Readings (in °C) at Smoky Heights



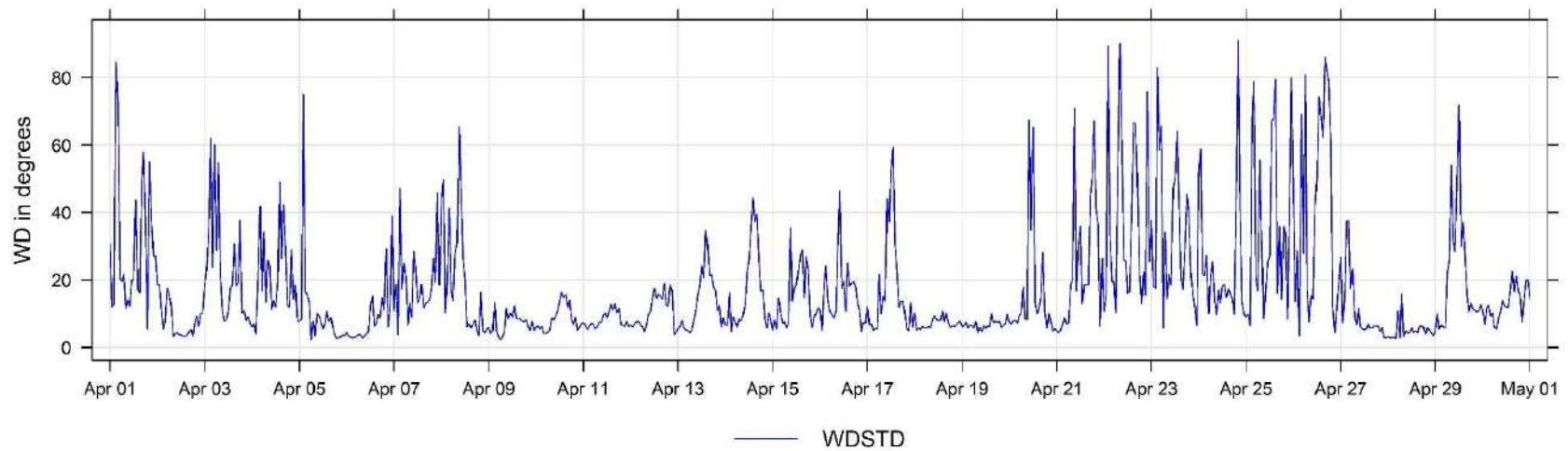
April 2022 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

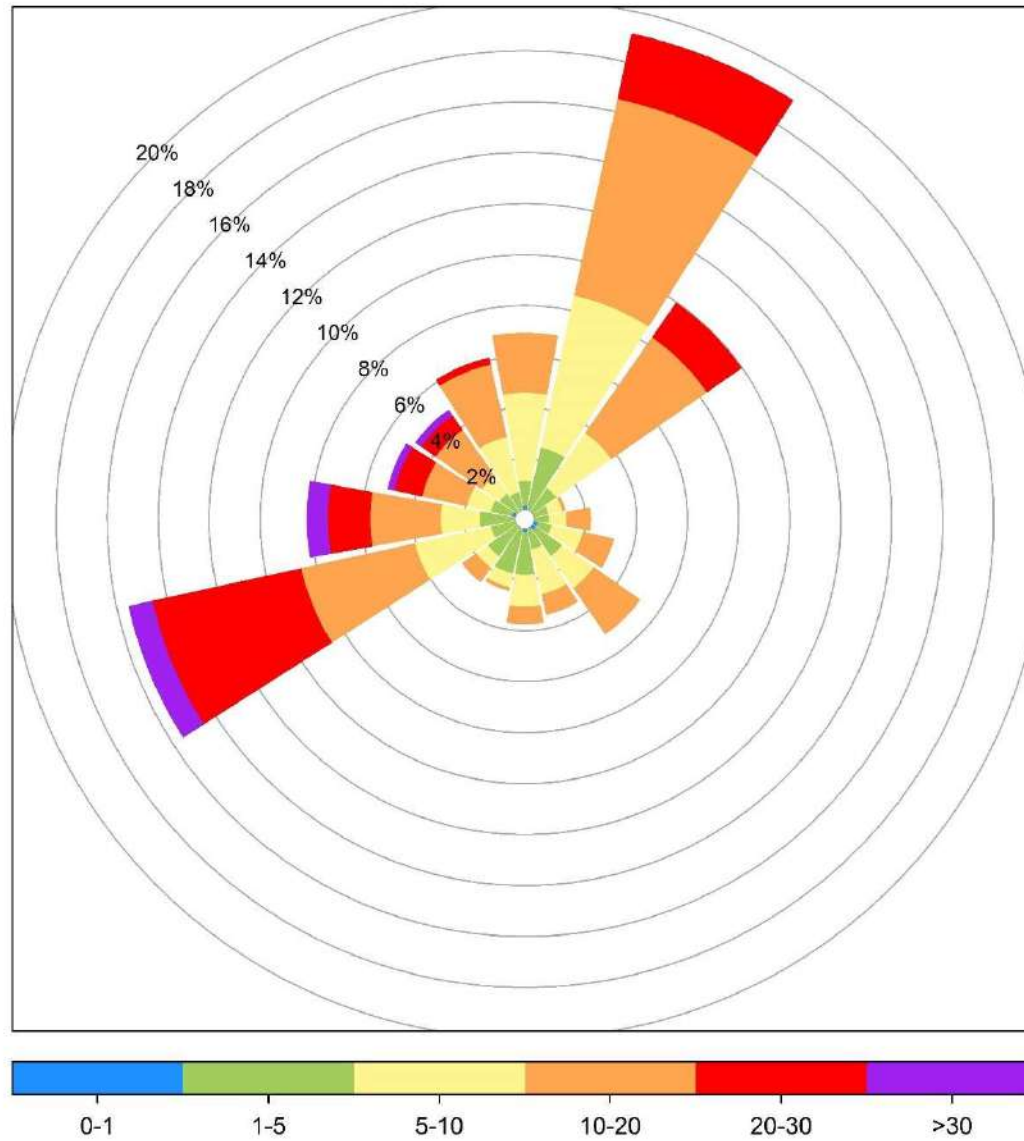


April 2022 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights



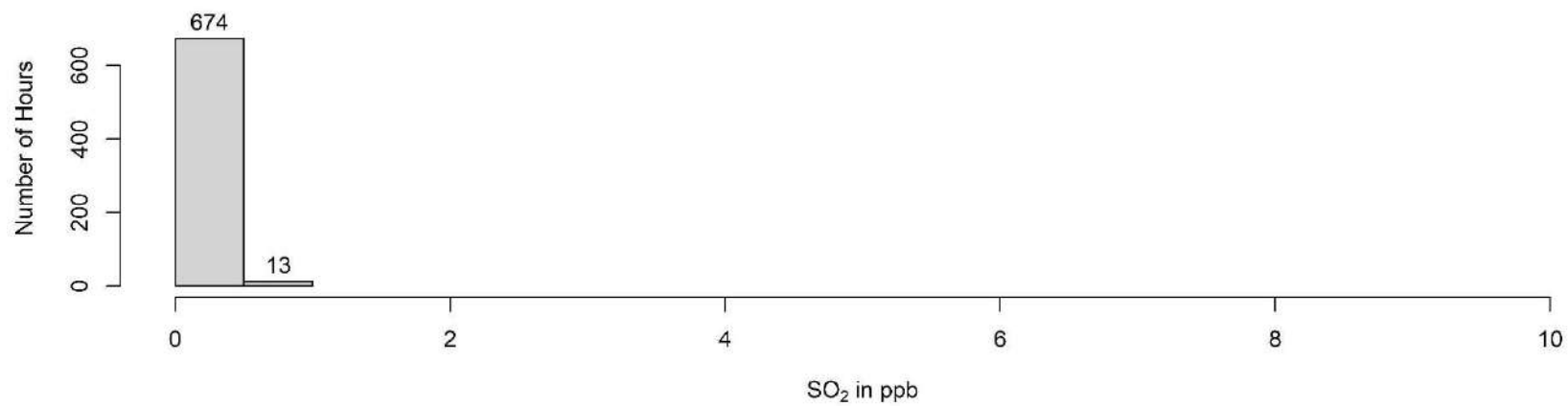
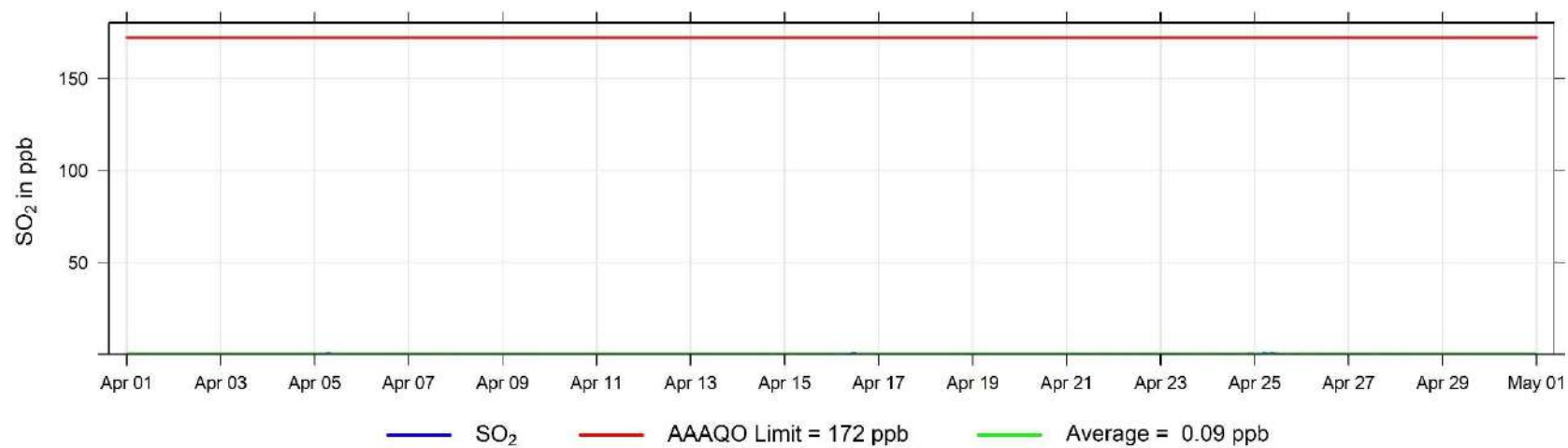


Smoky Heights April 2022 Wind Rose, wind speed in km/hr

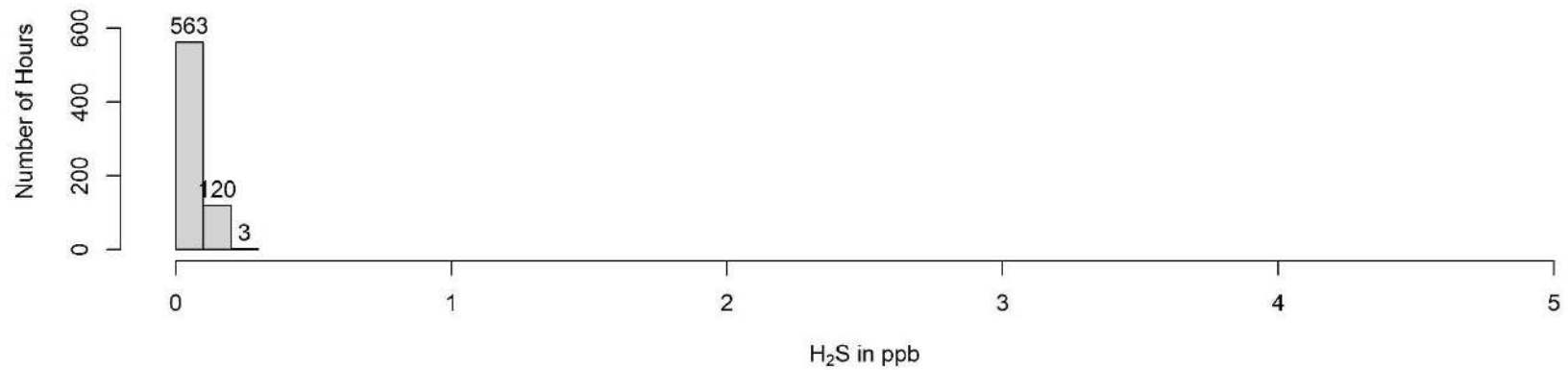
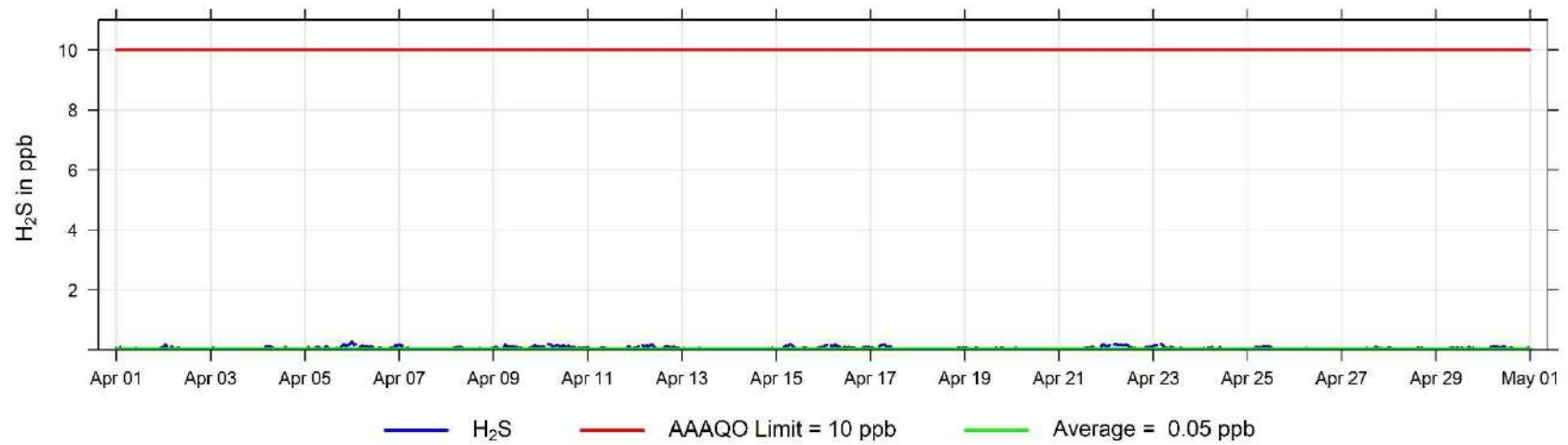
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

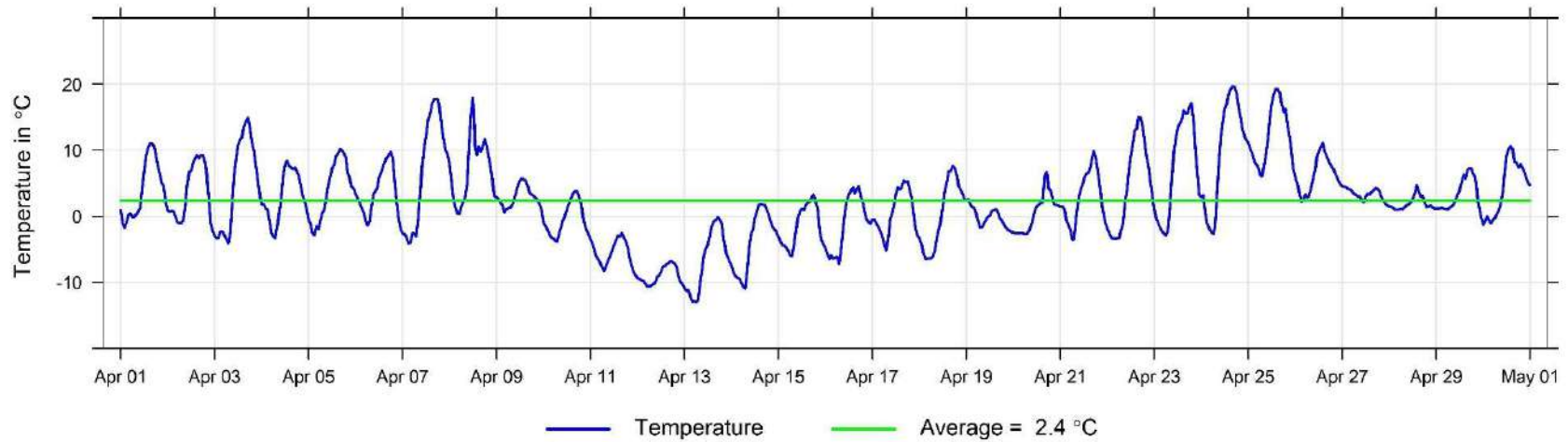
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



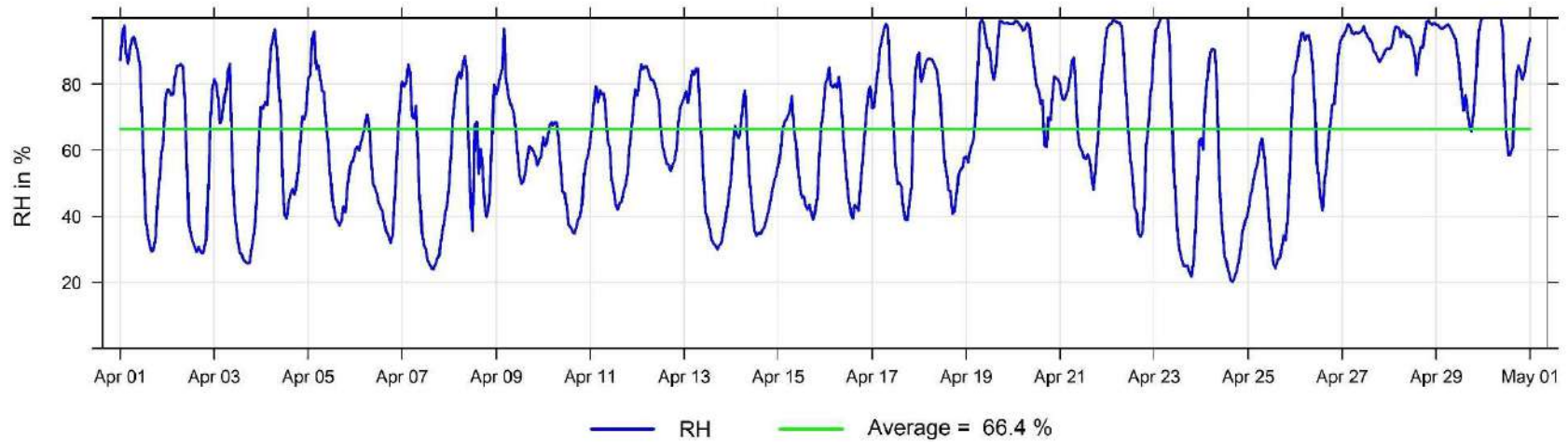
April 2022 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



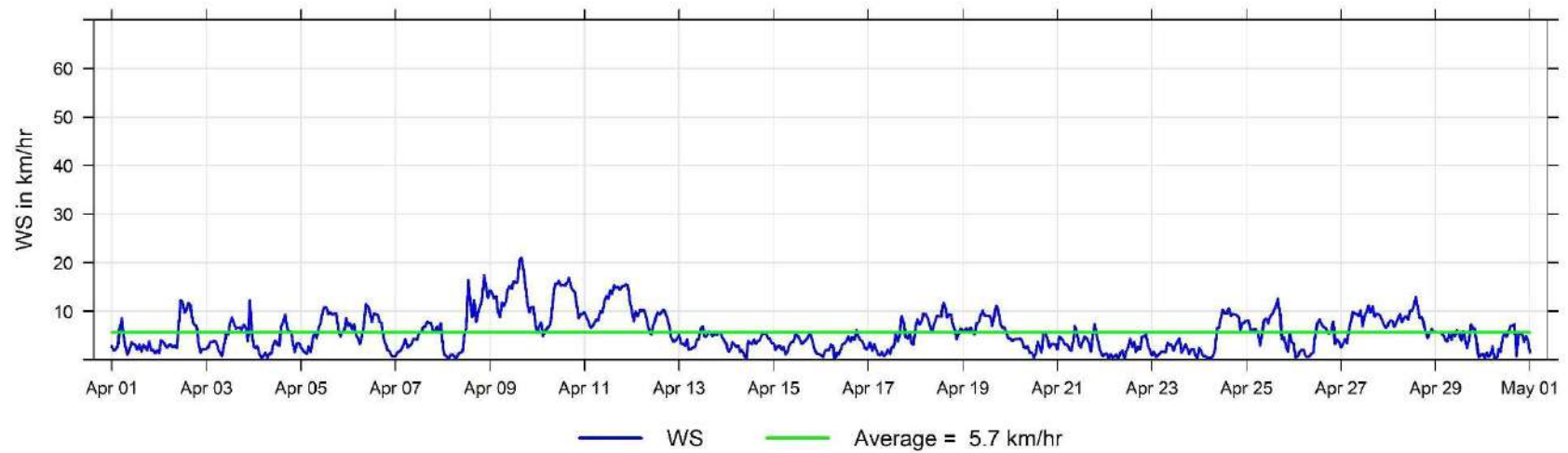
April 2022 Hourly Temperature Readings (in °C) at Valleyview



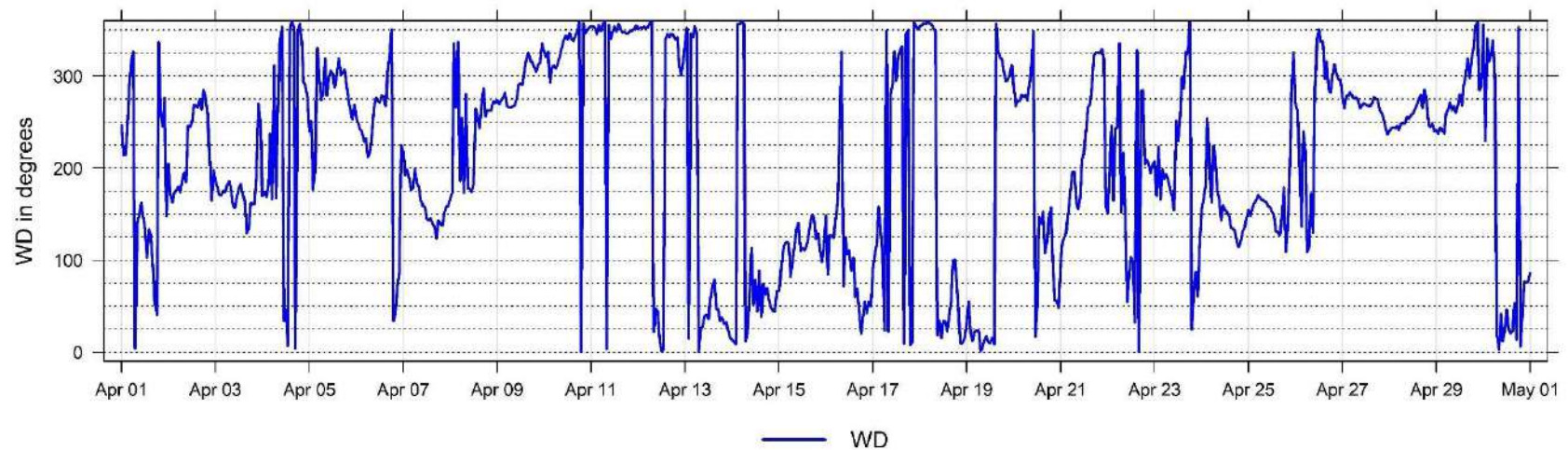
April 2022 Hourly Readings of Relative Humidity (in %) at Valleyview



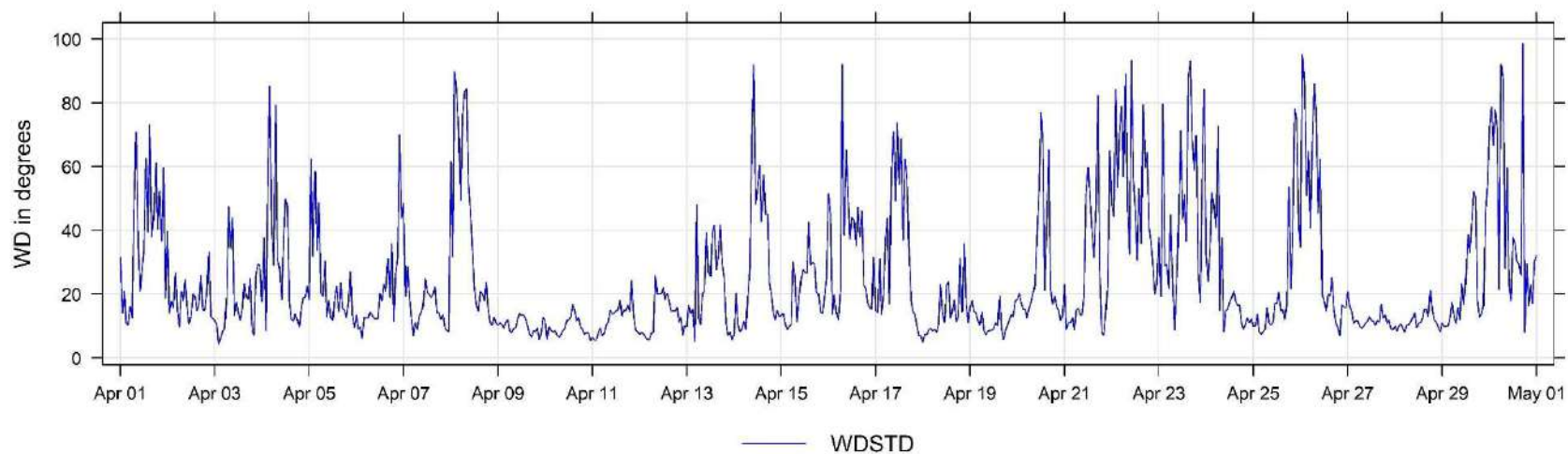
April 2022 Hourly Readings of Wind Speed (in km/hr) at Valleyview

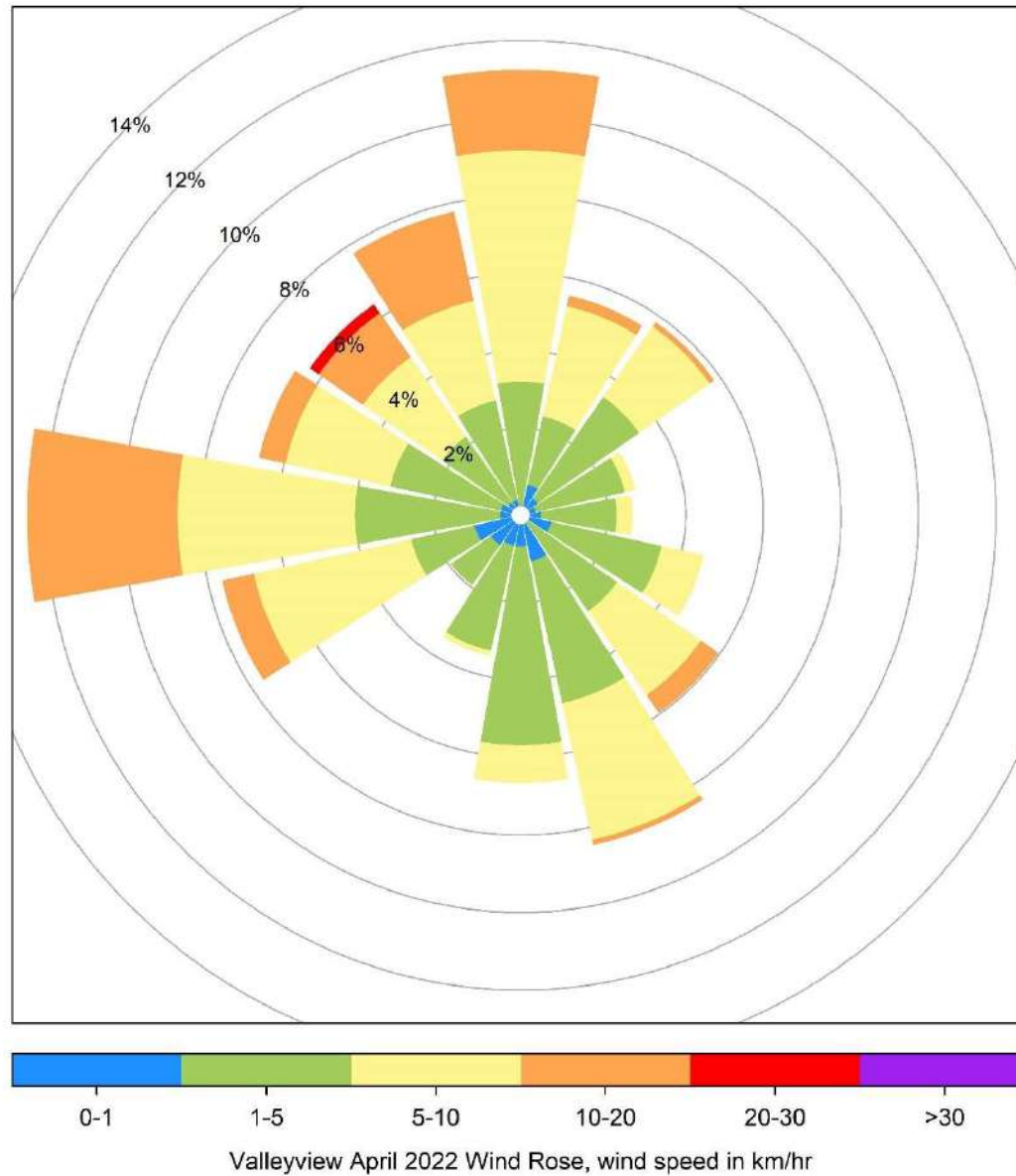


April 2022 Hourly Readings of Wind Direction (in degrees) at Valleyview



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview

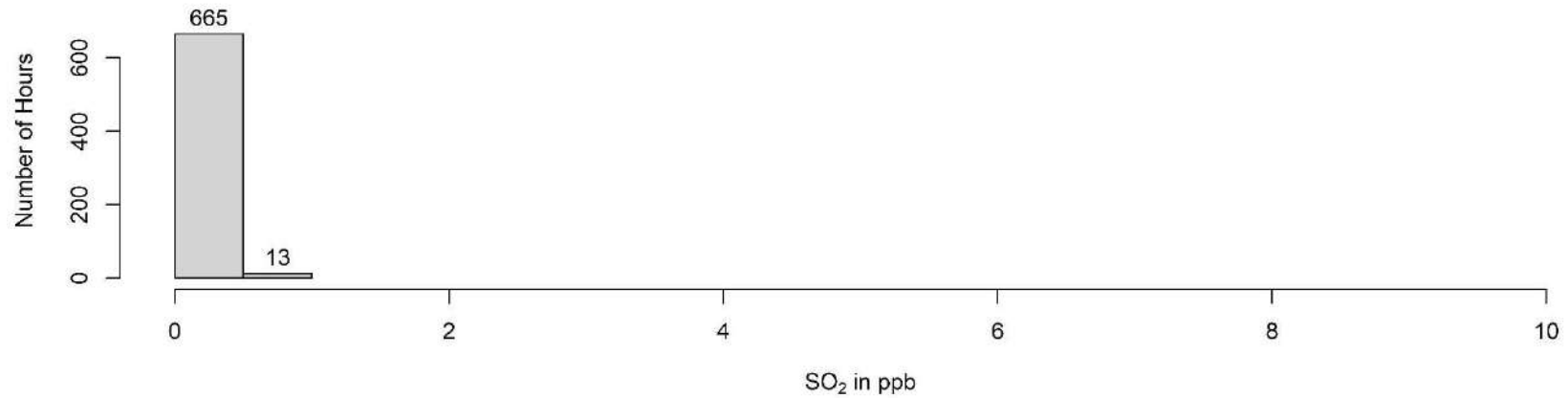
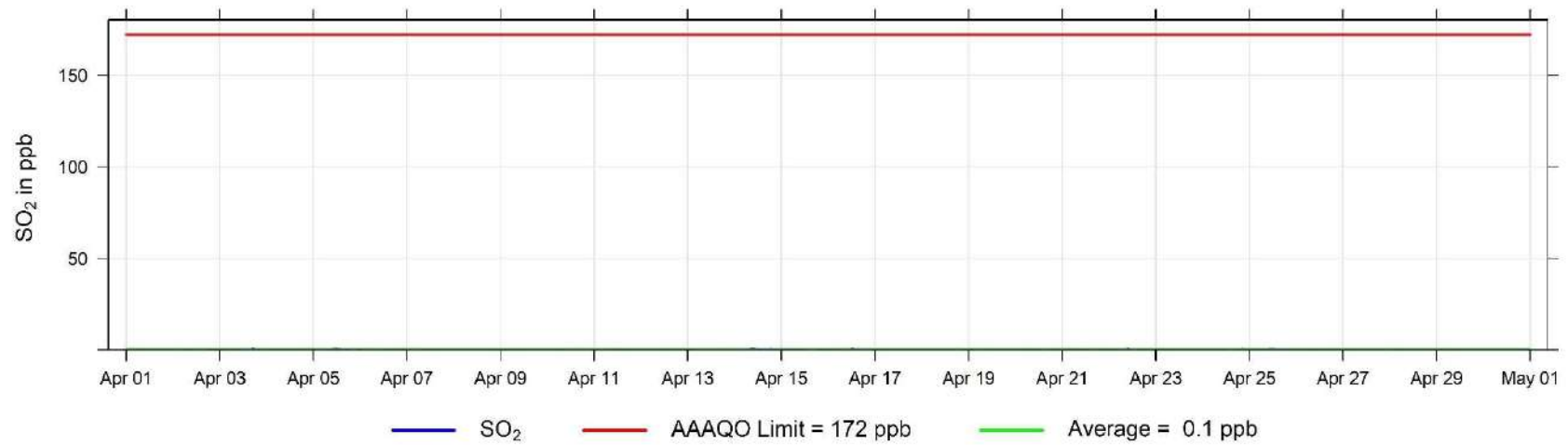




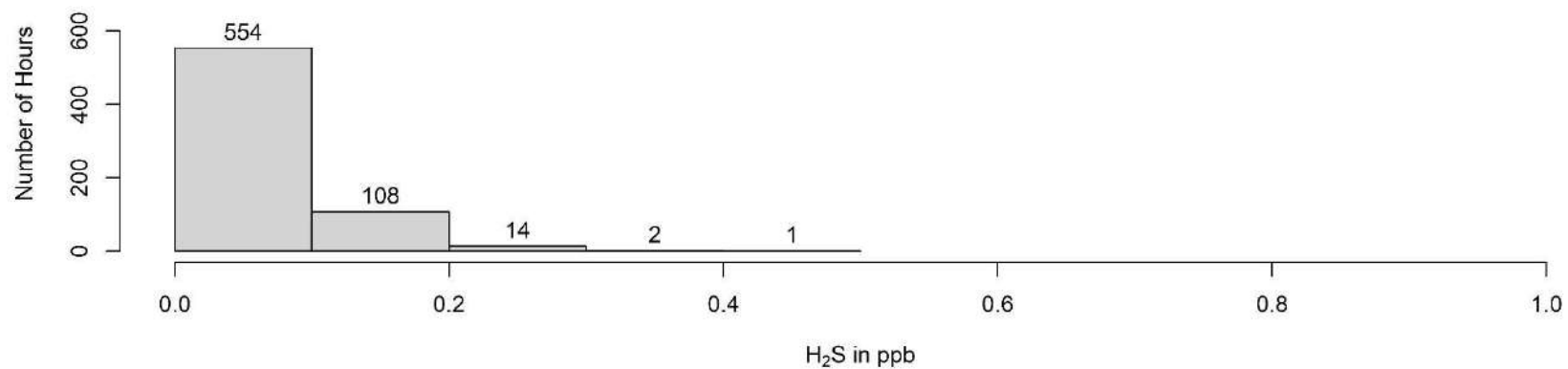
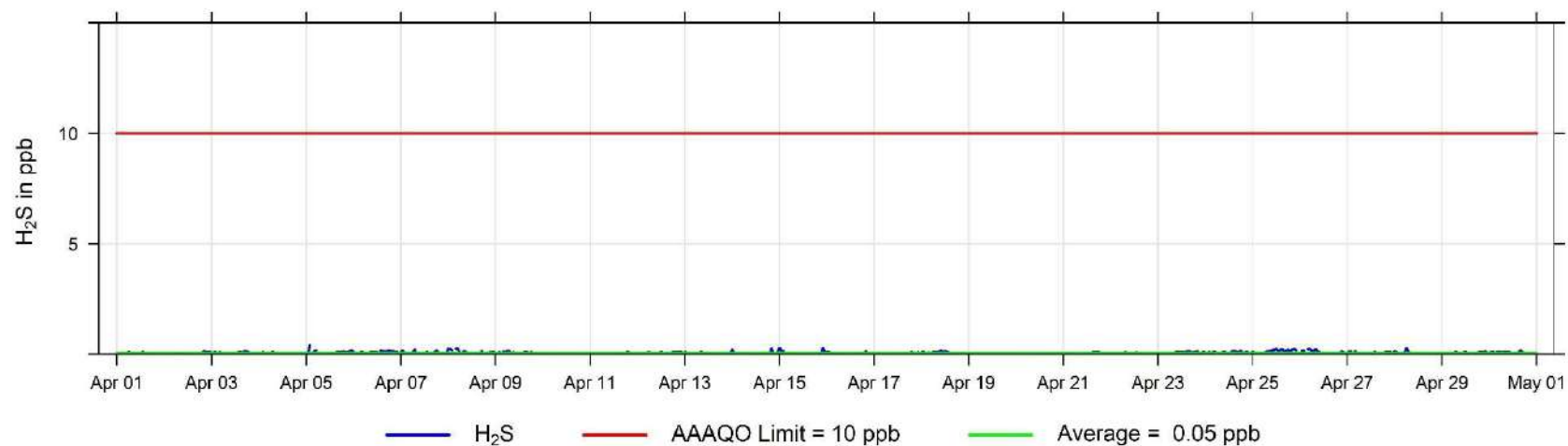
7 Donnelly Charts

The following pages include the charts and histograms for Donnelly Station

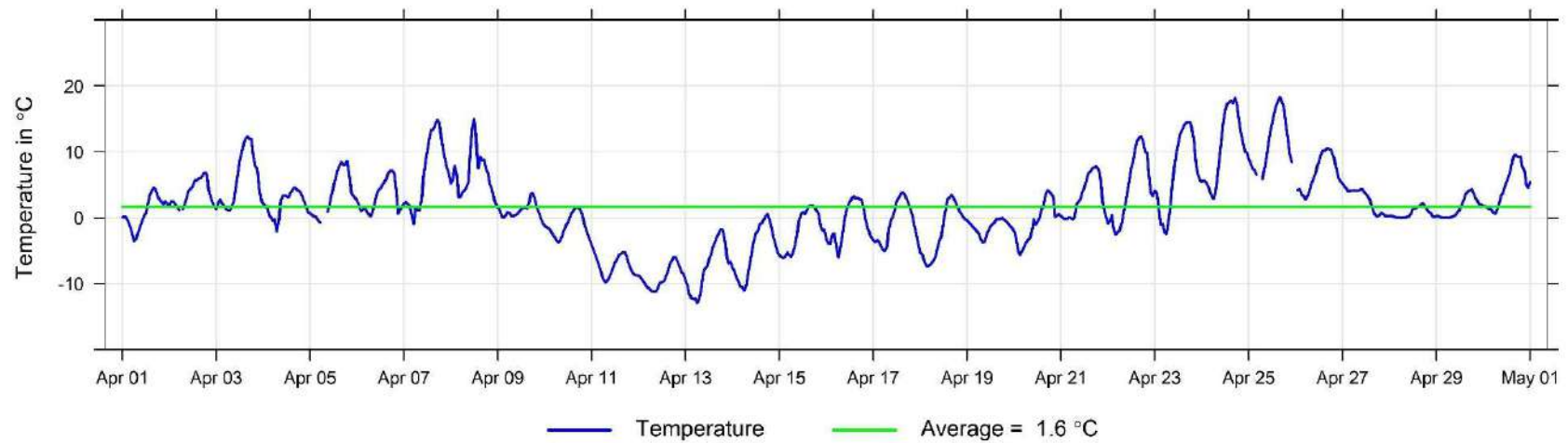
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Donnelly



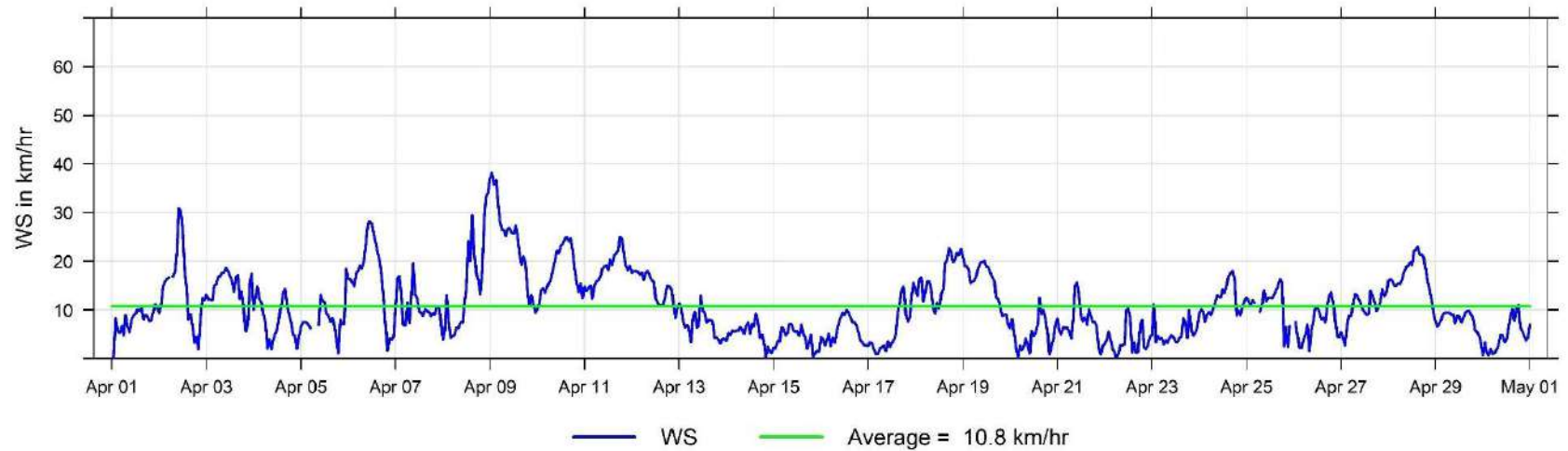
April 2022 Hourly Concentration Readings of H₂S (in ppb) at Donnelly



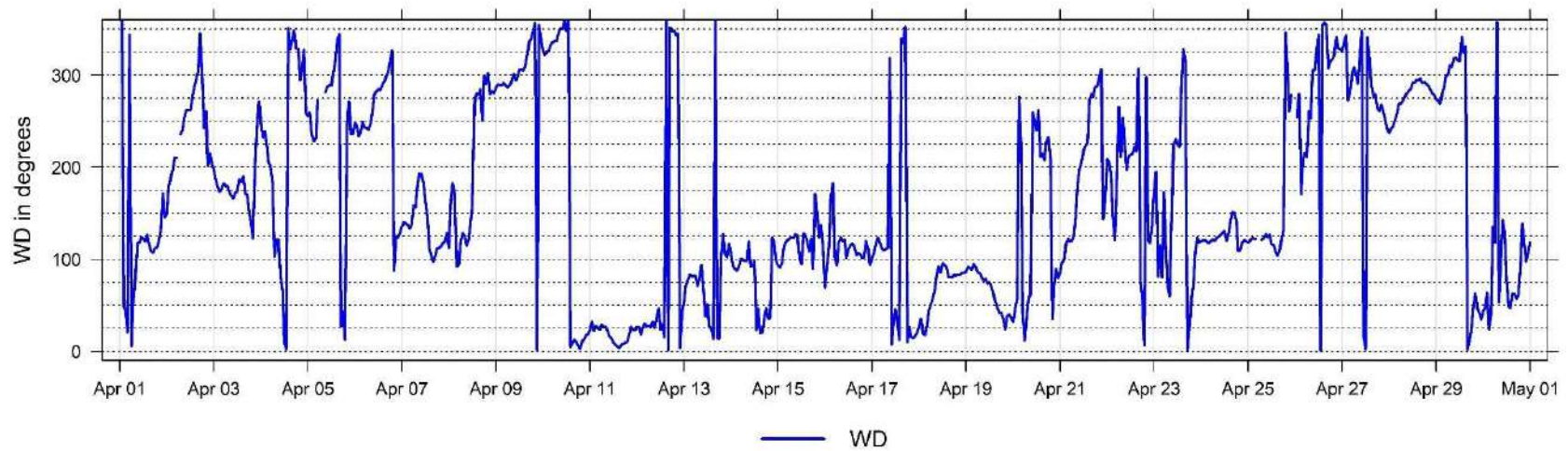
April 2022 Hourly Temperature Readings (in °C) at Donnelly



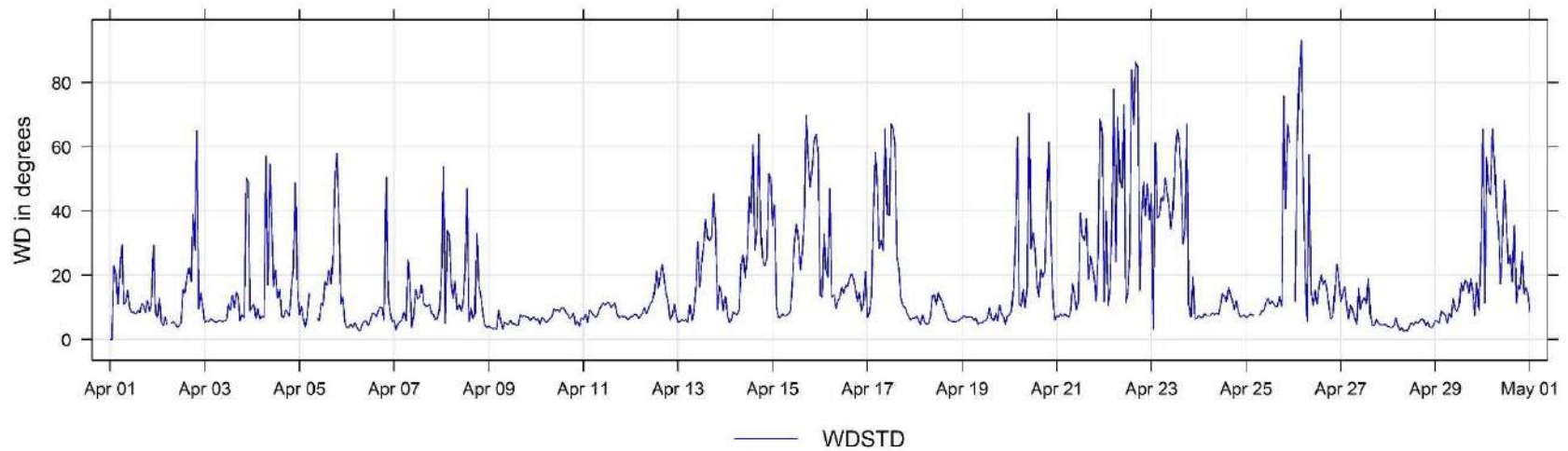
April 2022 Hourly Readings of Wind Speed (in km/hr) at Donnelly

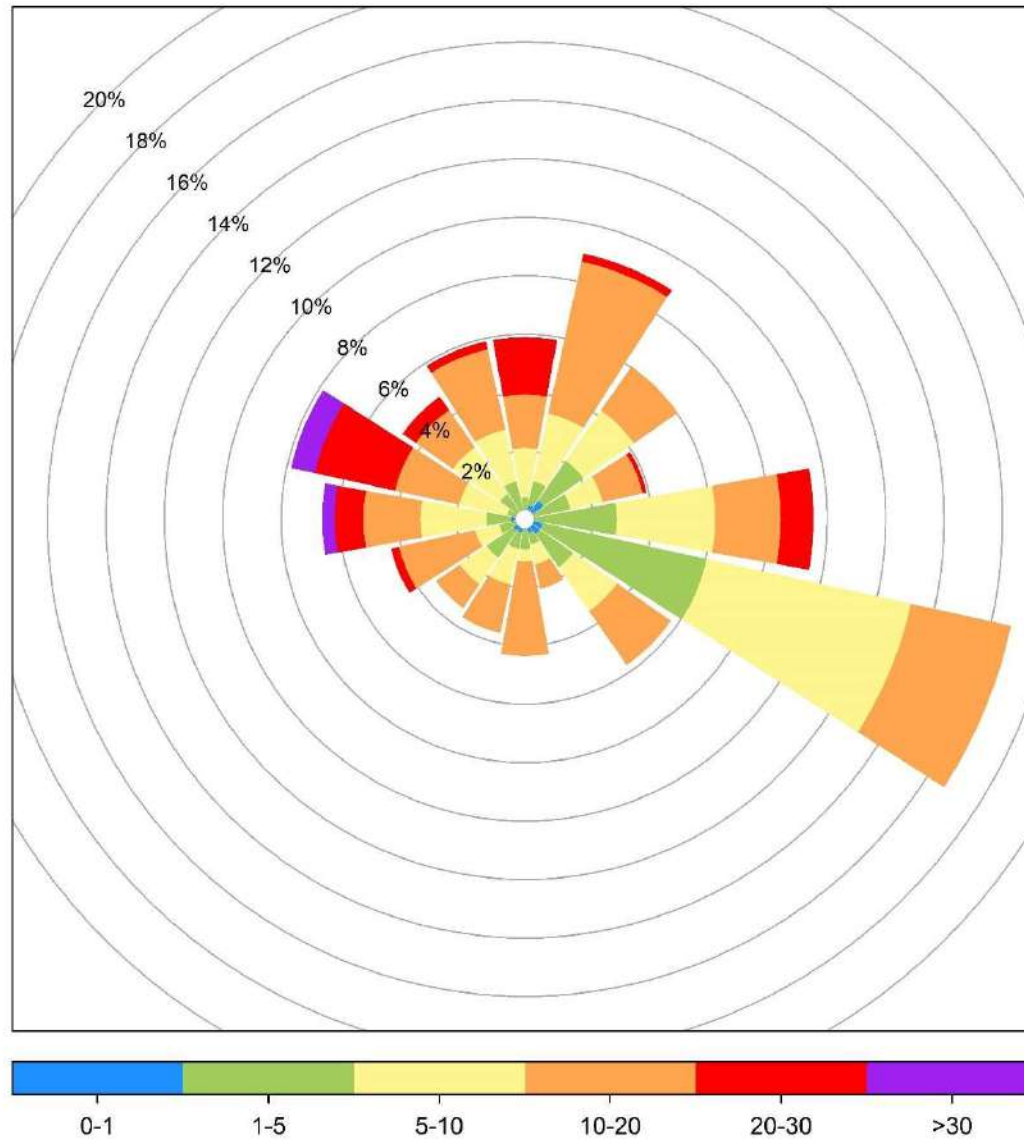


April 2022 Hourly Readings of Wind Direction (in degrees) at Donnelly



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Donnelly



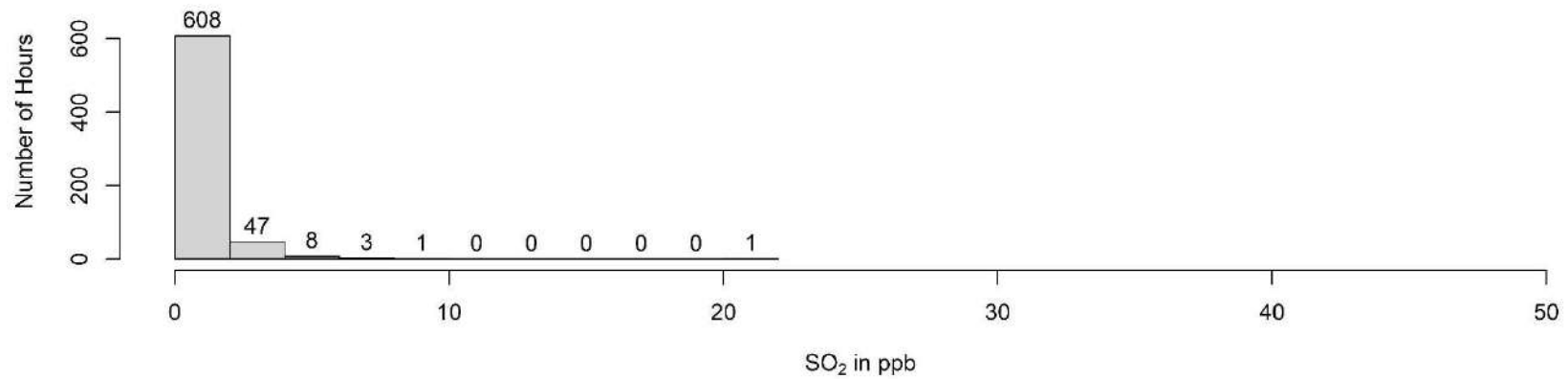
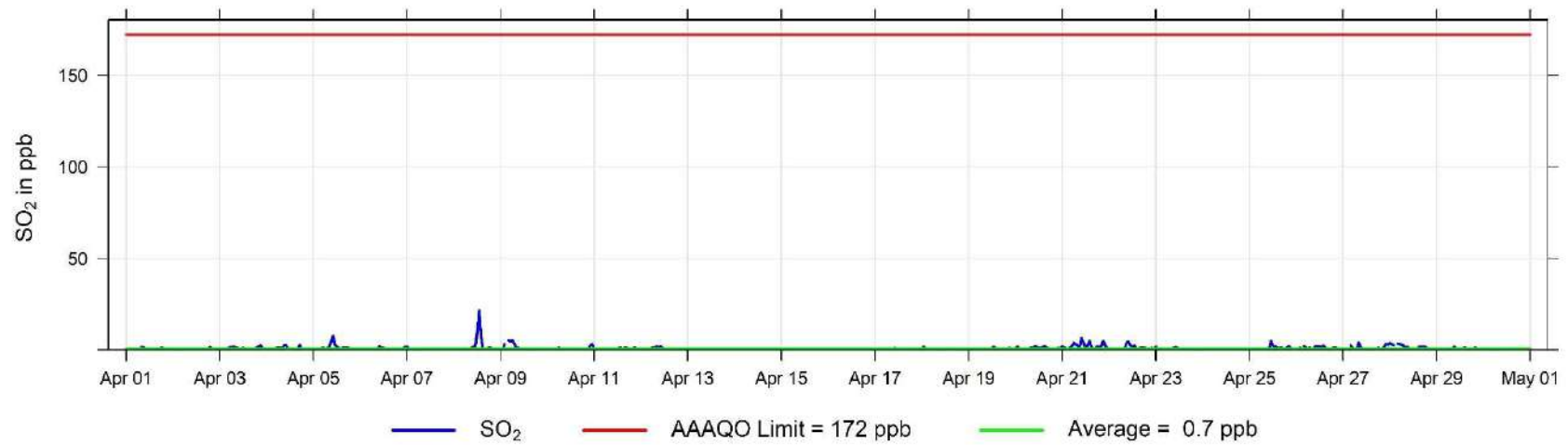


Donnelly April 2022 Wind Rose, wind speed in km/hr

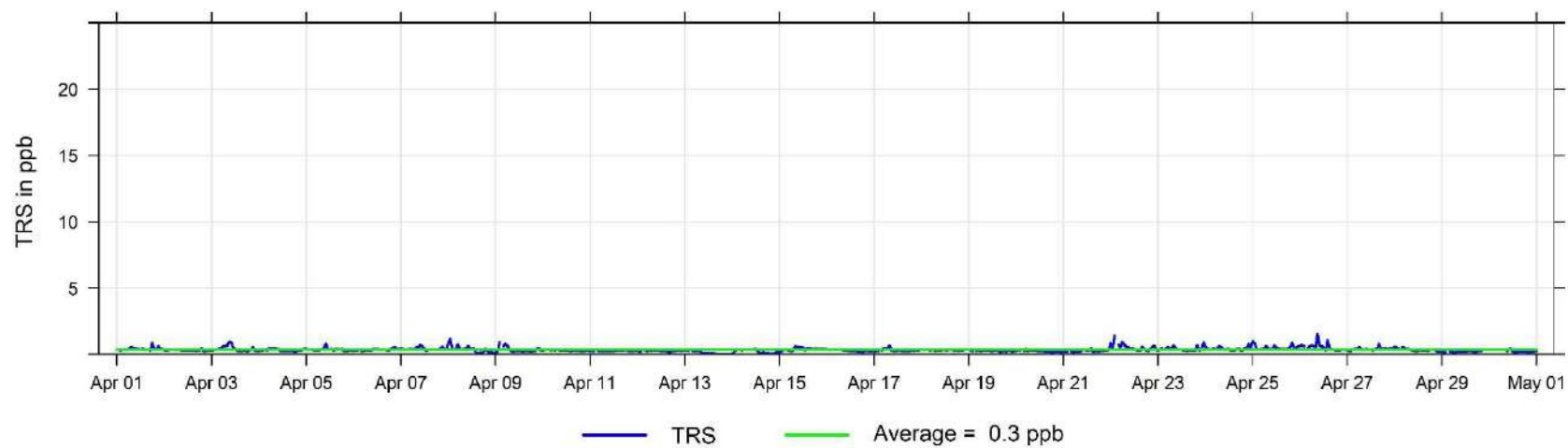
8 Poplar (Portable) Charts

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

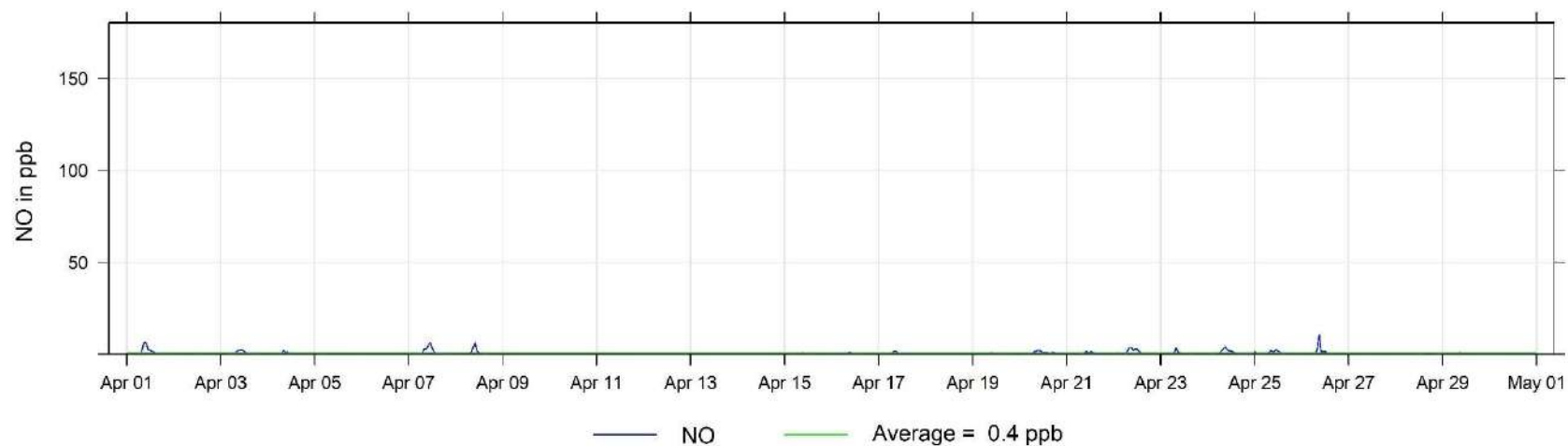
April 2022 Hourly Concentration Readings of SO₂ (in ppb) at Poplar



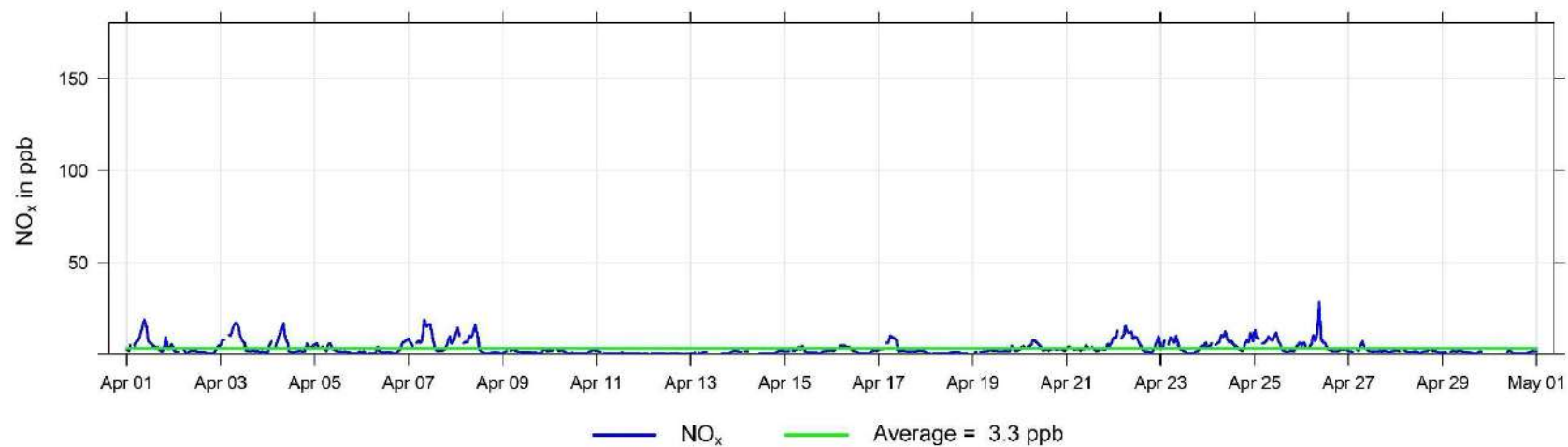
April 2022 Hourly Concentration Readings of TRS (in ppb) at Poplar



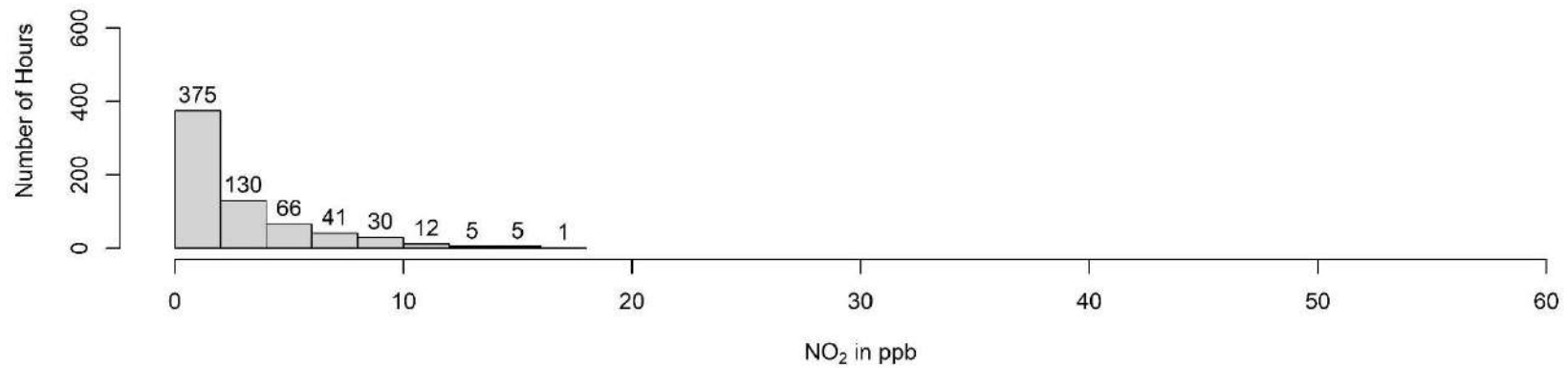
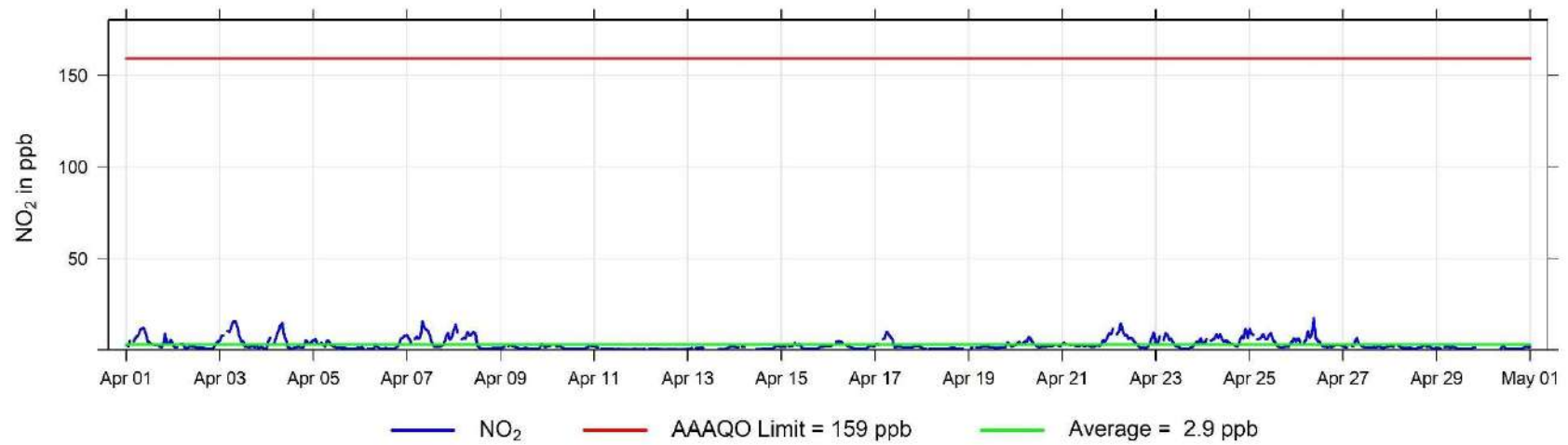
April 2022 Hourly Concentration Readings of NO (in ppb) at Poplar



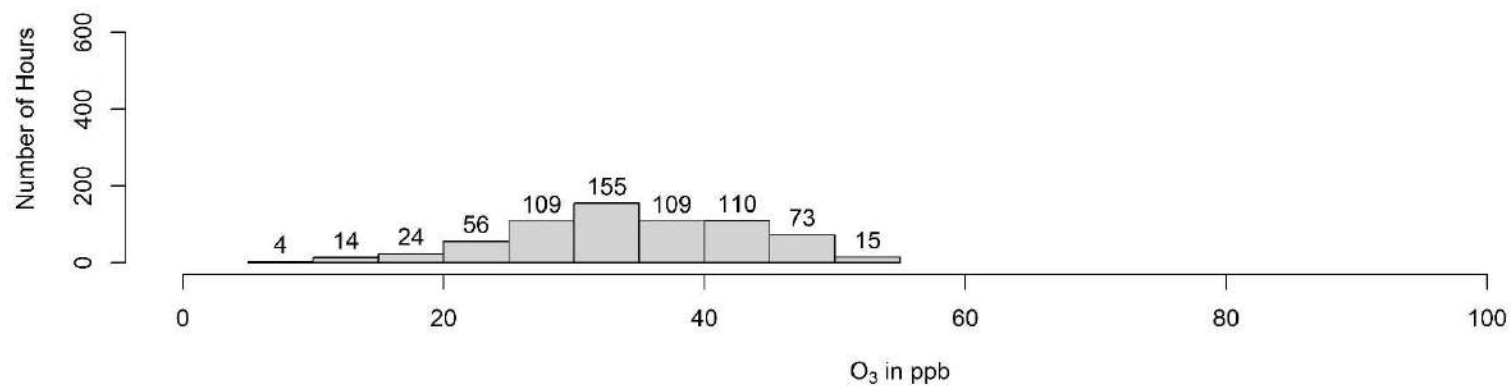
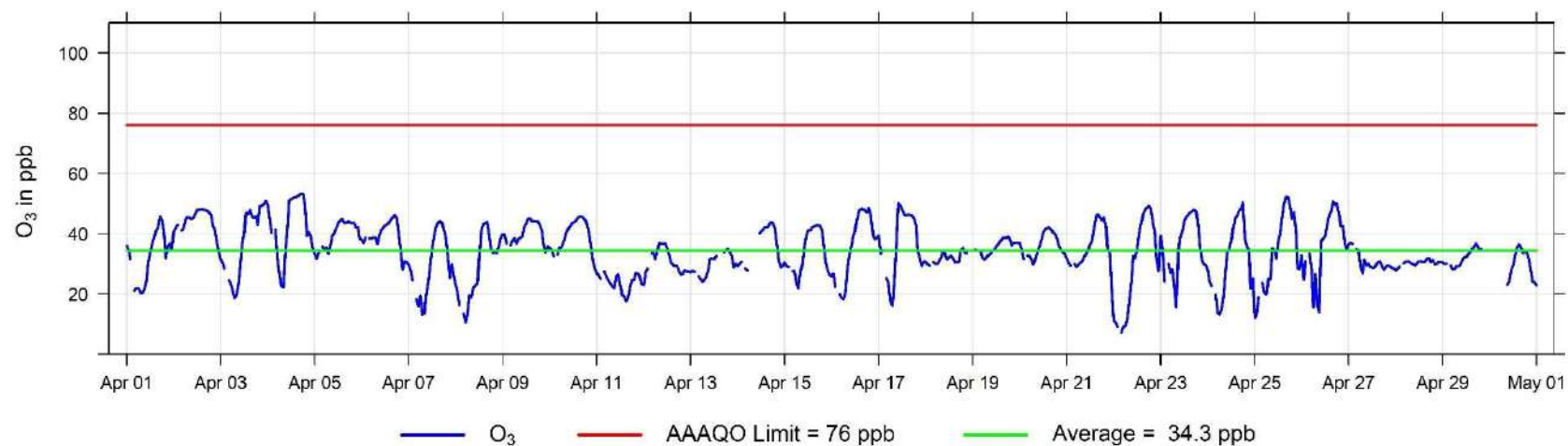
April 2022 Hourly Concentration Readings of NO_x (in ppb) at Poplar



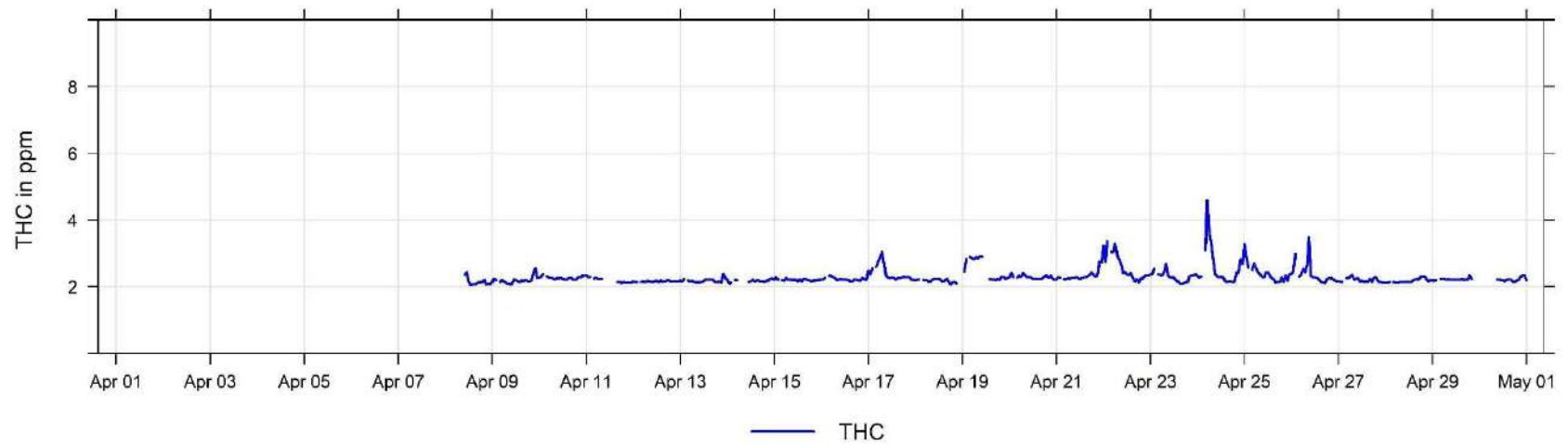
April 2022 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



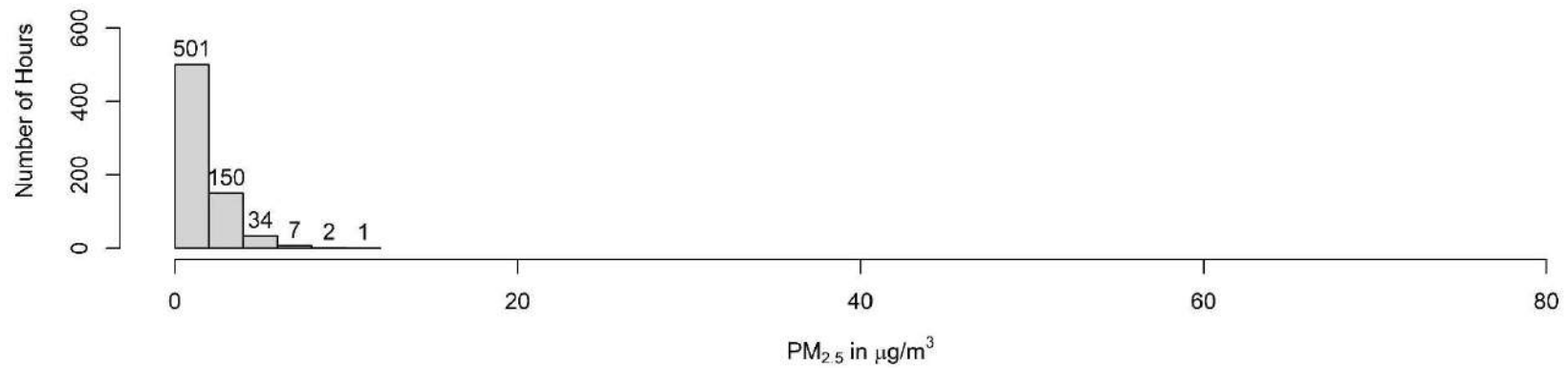
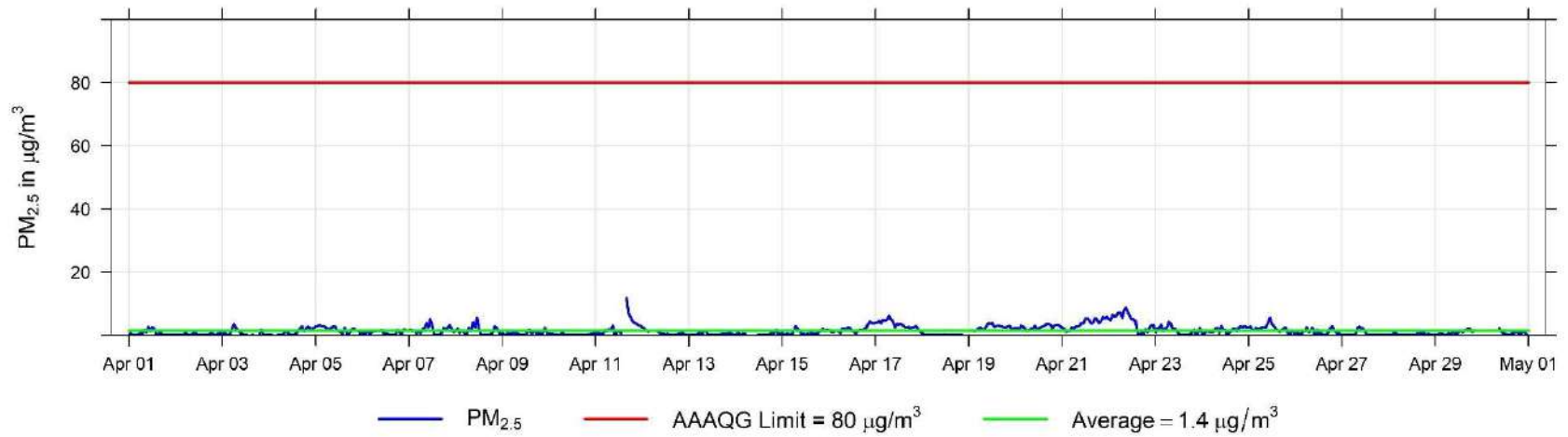
April 2022 Hourly Concentration Readings of O₃ (in ppb) at Poplar



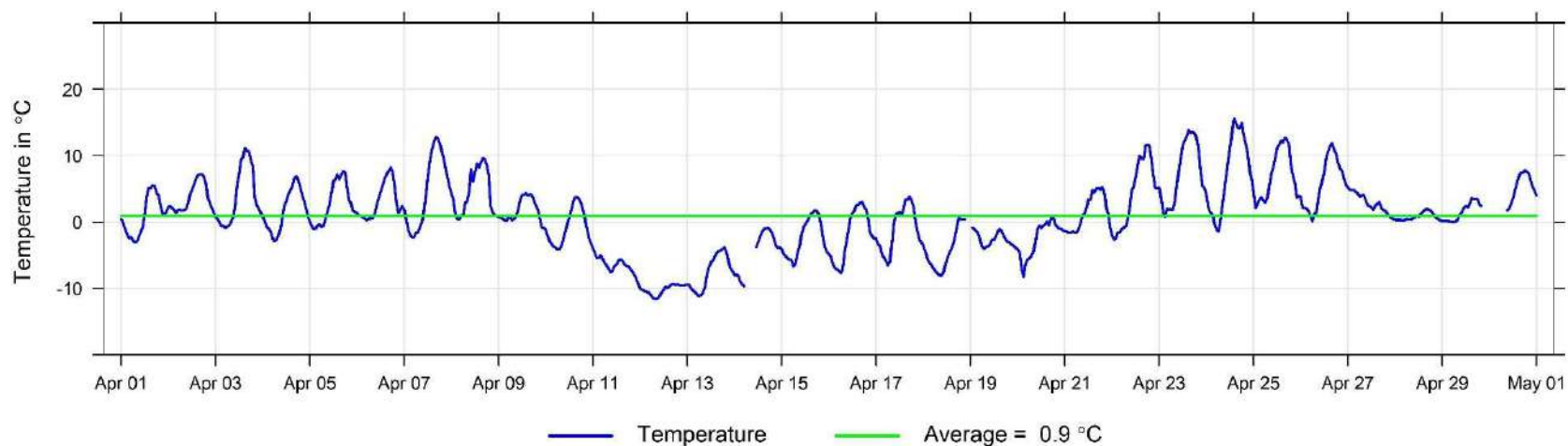
April 2022 Hourly Concentration Readings of THC (in ppm) at Poplar



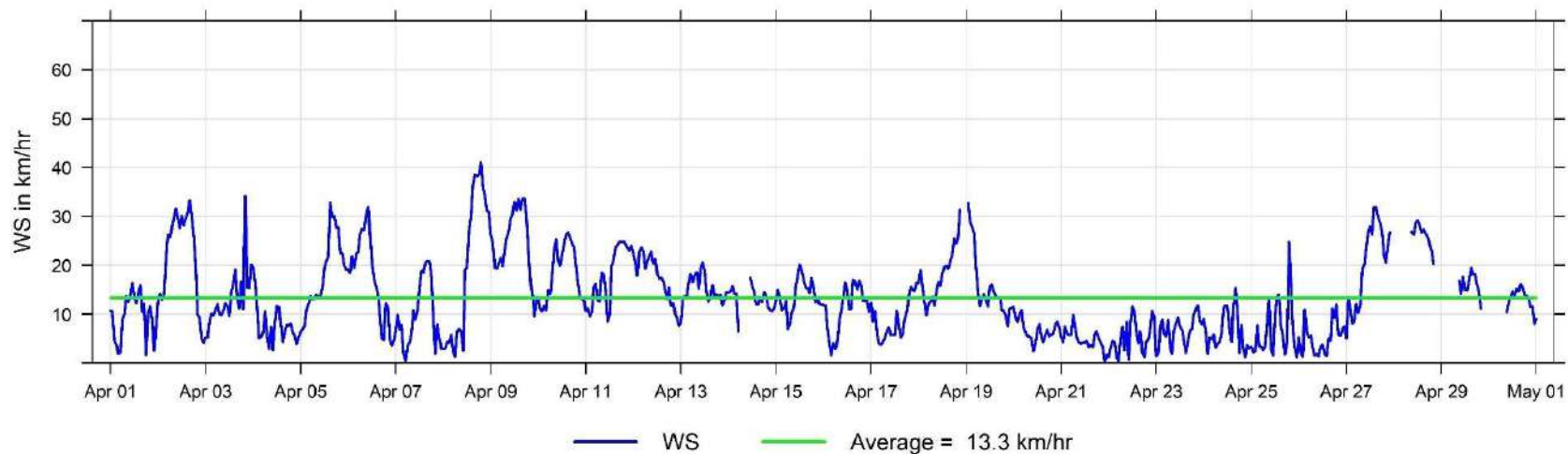
April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Poplar



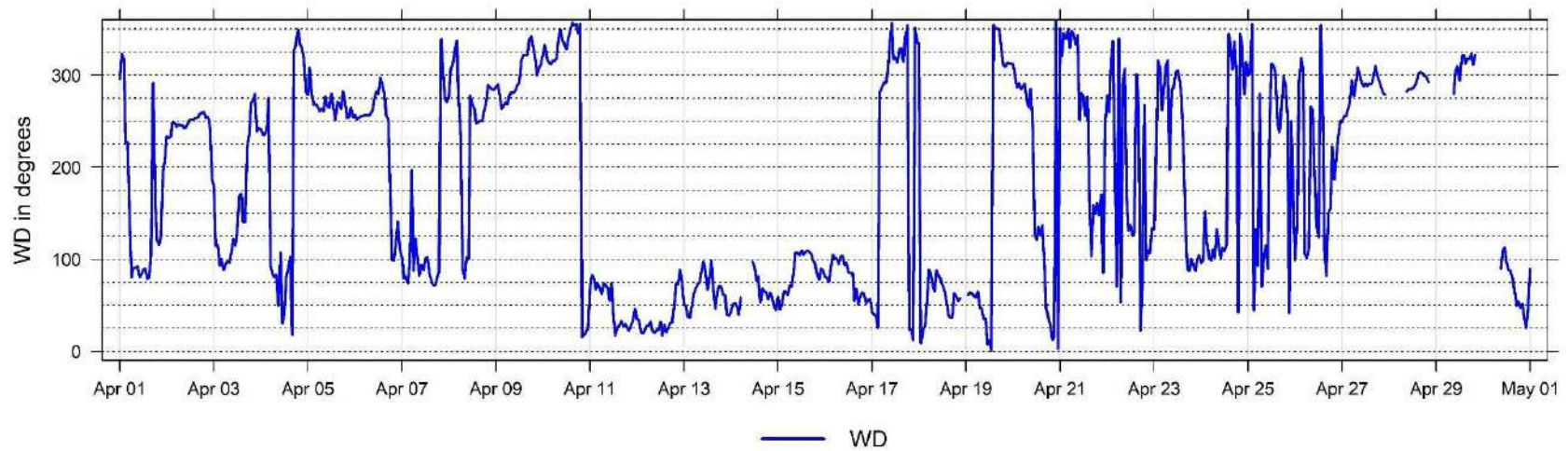
April 2022 Hourly Temperature Readings (in °C) at Poplar



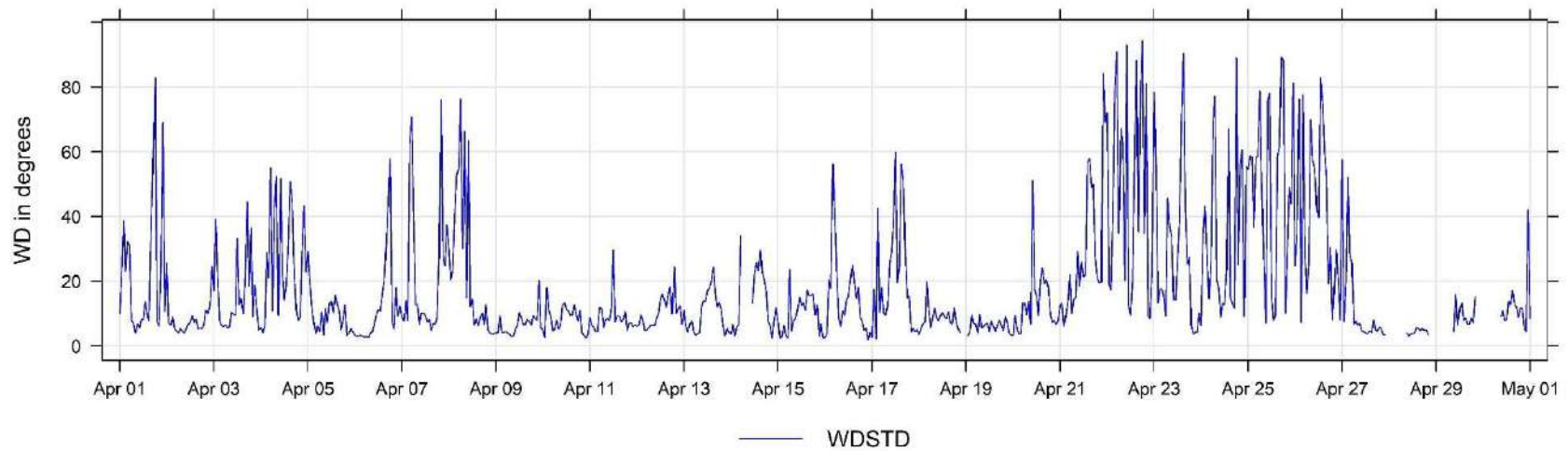
April 2022 Hourly Readings of Wind Speed (in km/hr) at Poplar

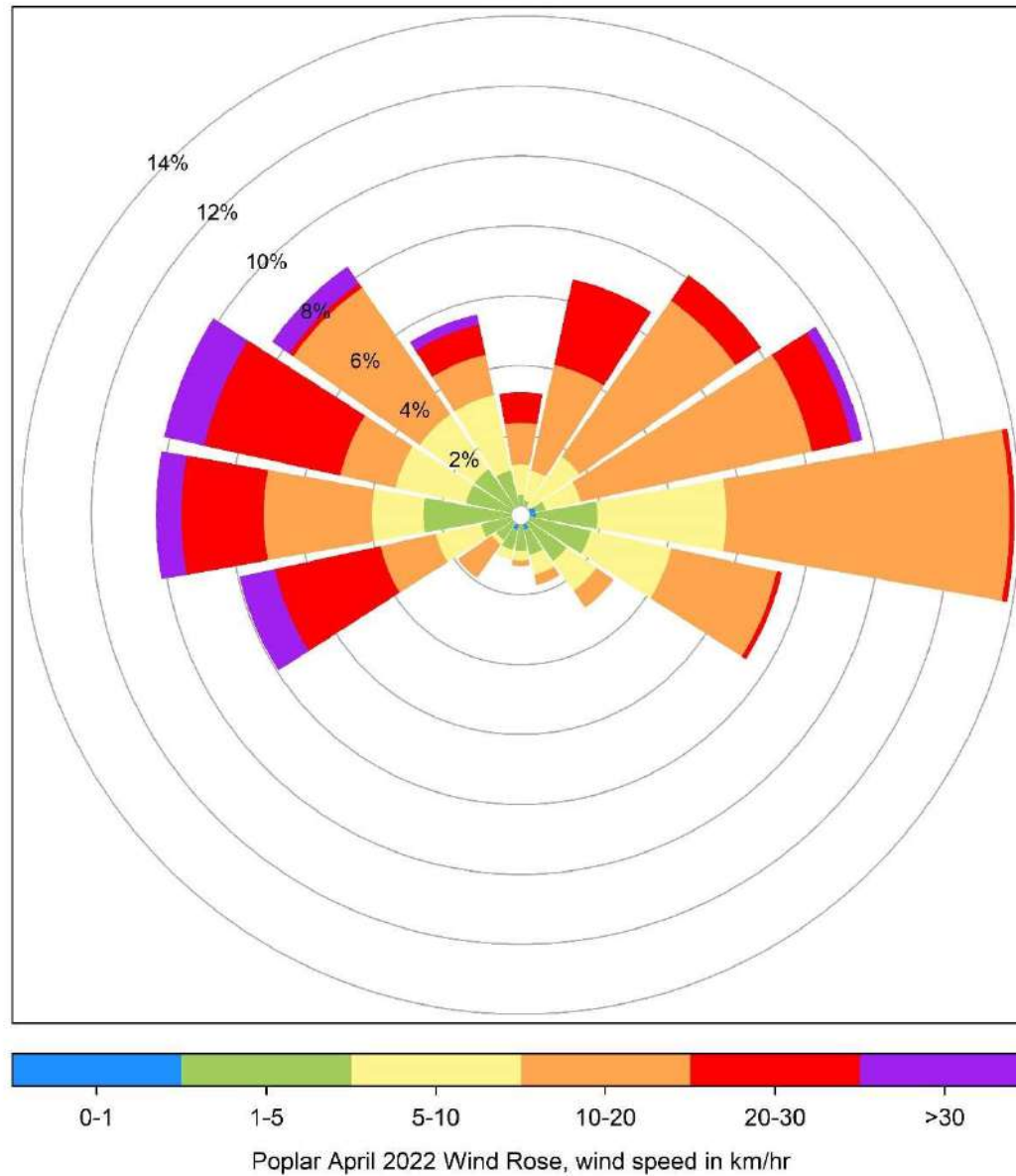


April 2022 Hourly Readings of Wind Direction (in degrees) at Poplar



April 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Poplar

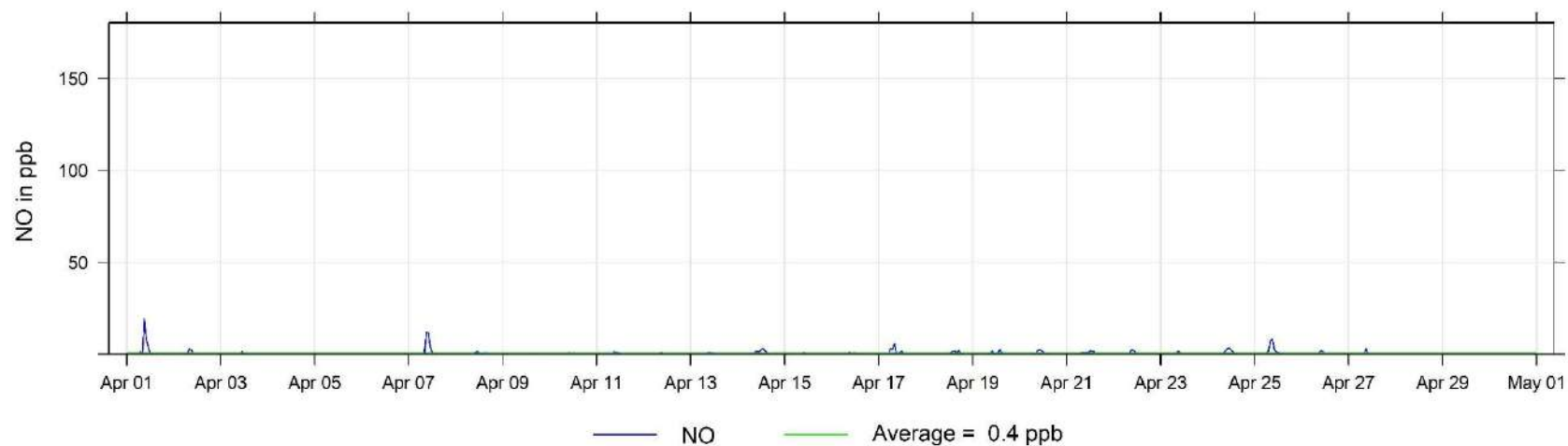




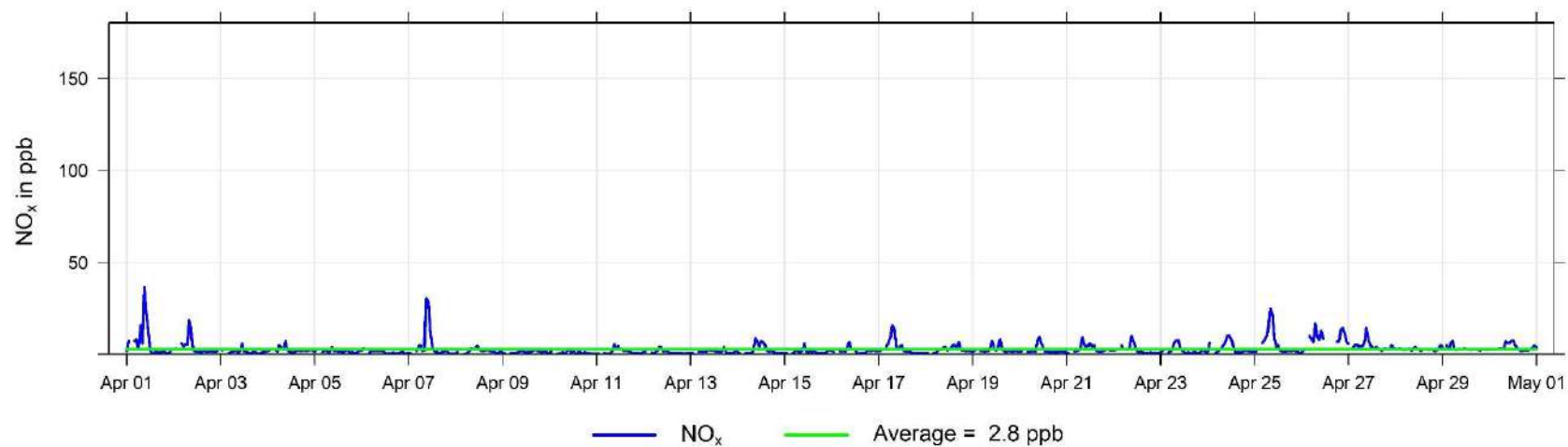
9 Milner Charts

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

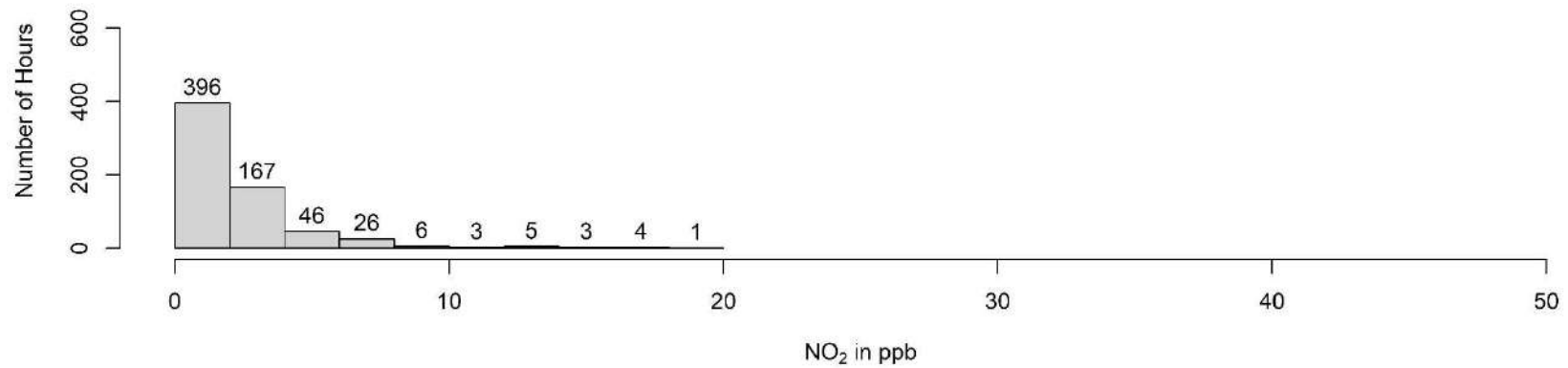
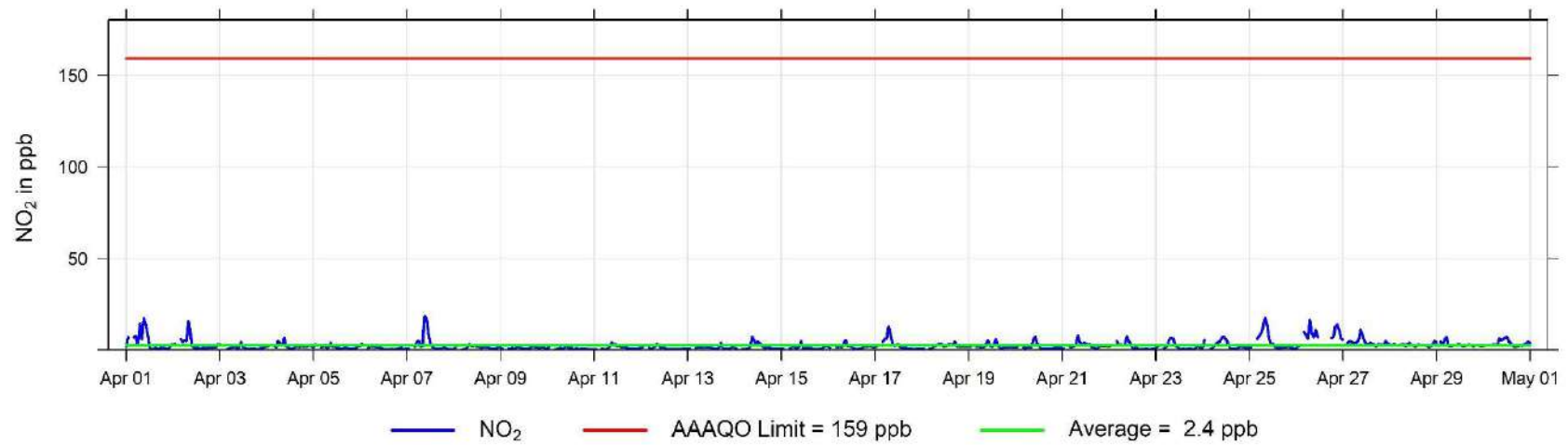
April 2022 Hourly Concentration Readings of NO (in ppb) at Milner



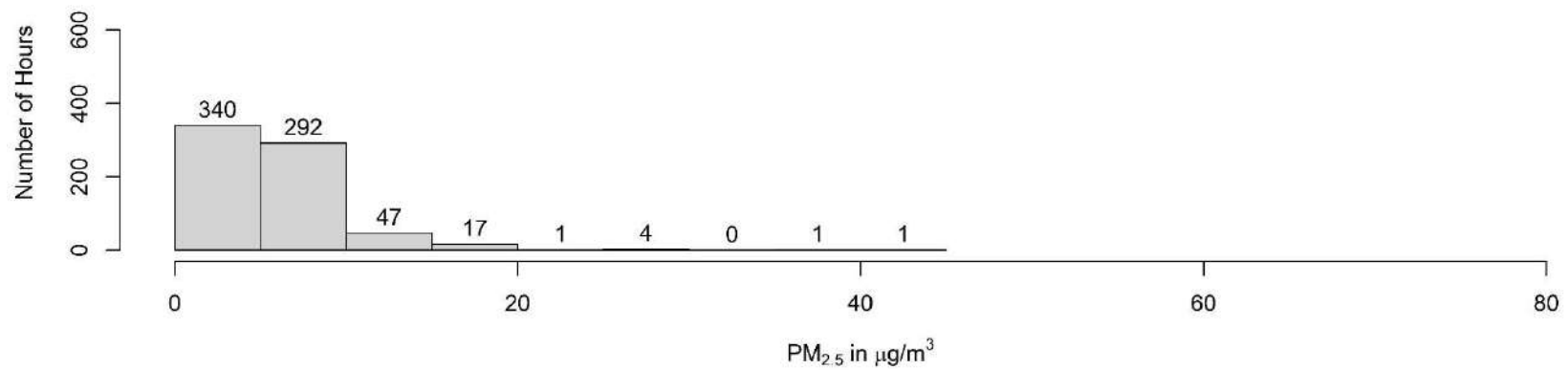
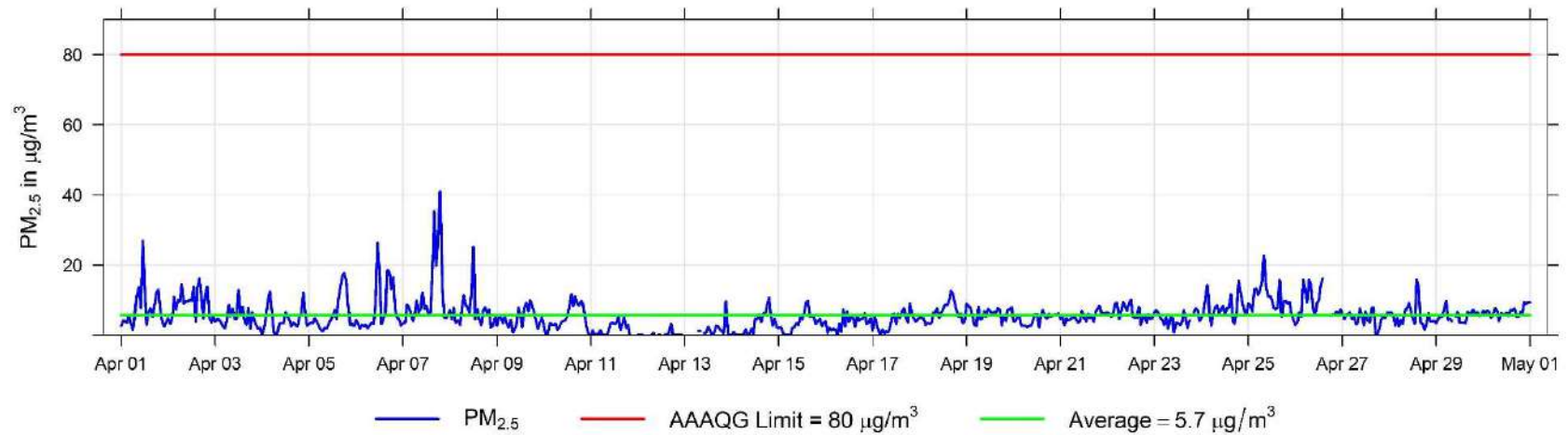
April 2022 Hourly Concentration Readings of NO_x (in ppb) at Milner



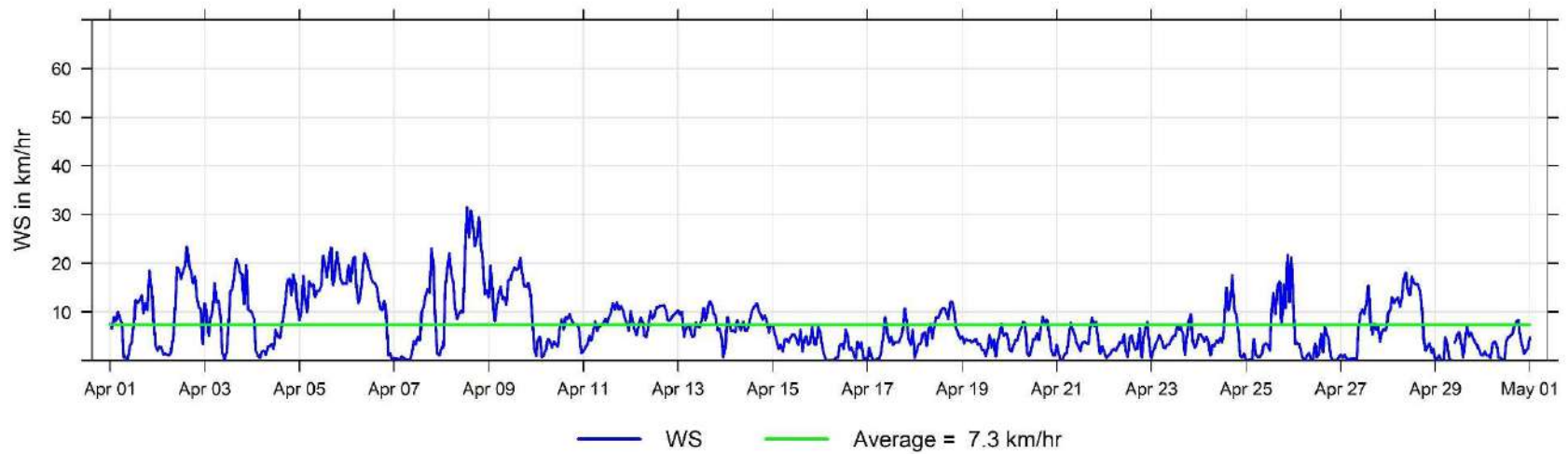
April 2022 Hourly Concentration Readings of NO₂ (in ppb) at Milner



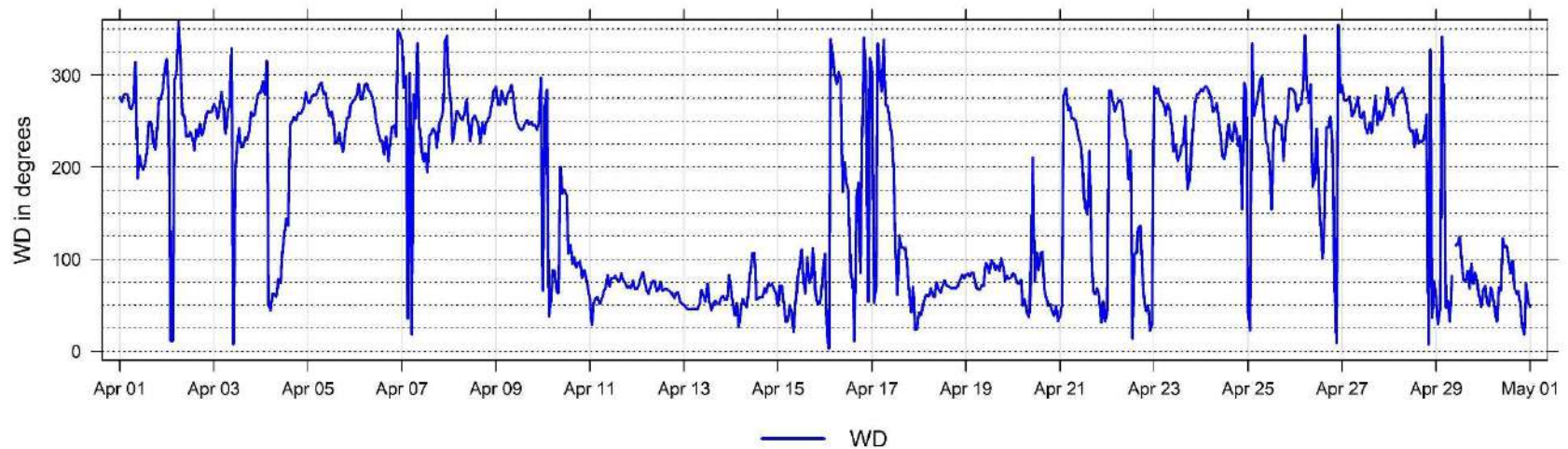
April 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner

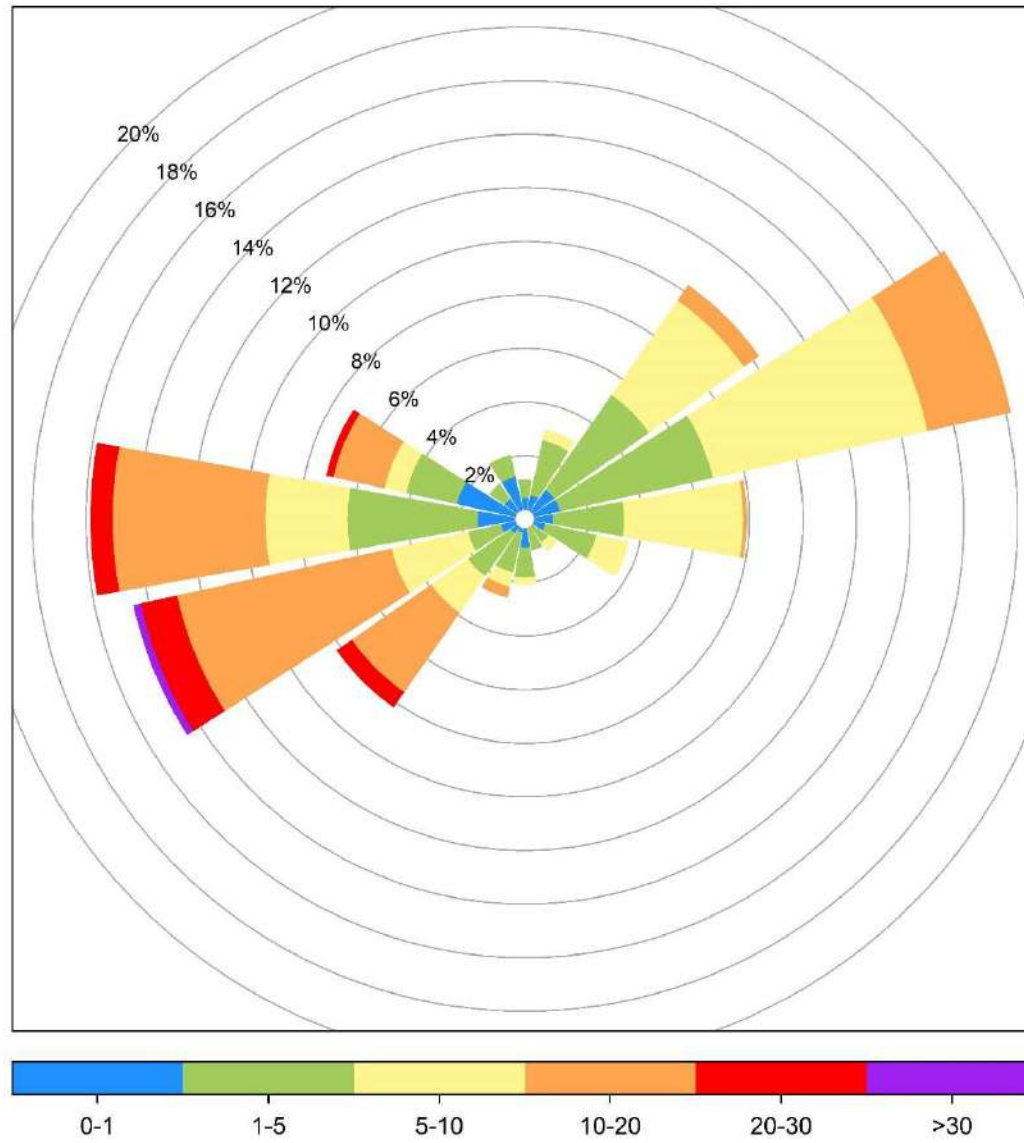


April 2022 Hourly Readings of Wind Speed (in km/hr) at Milner



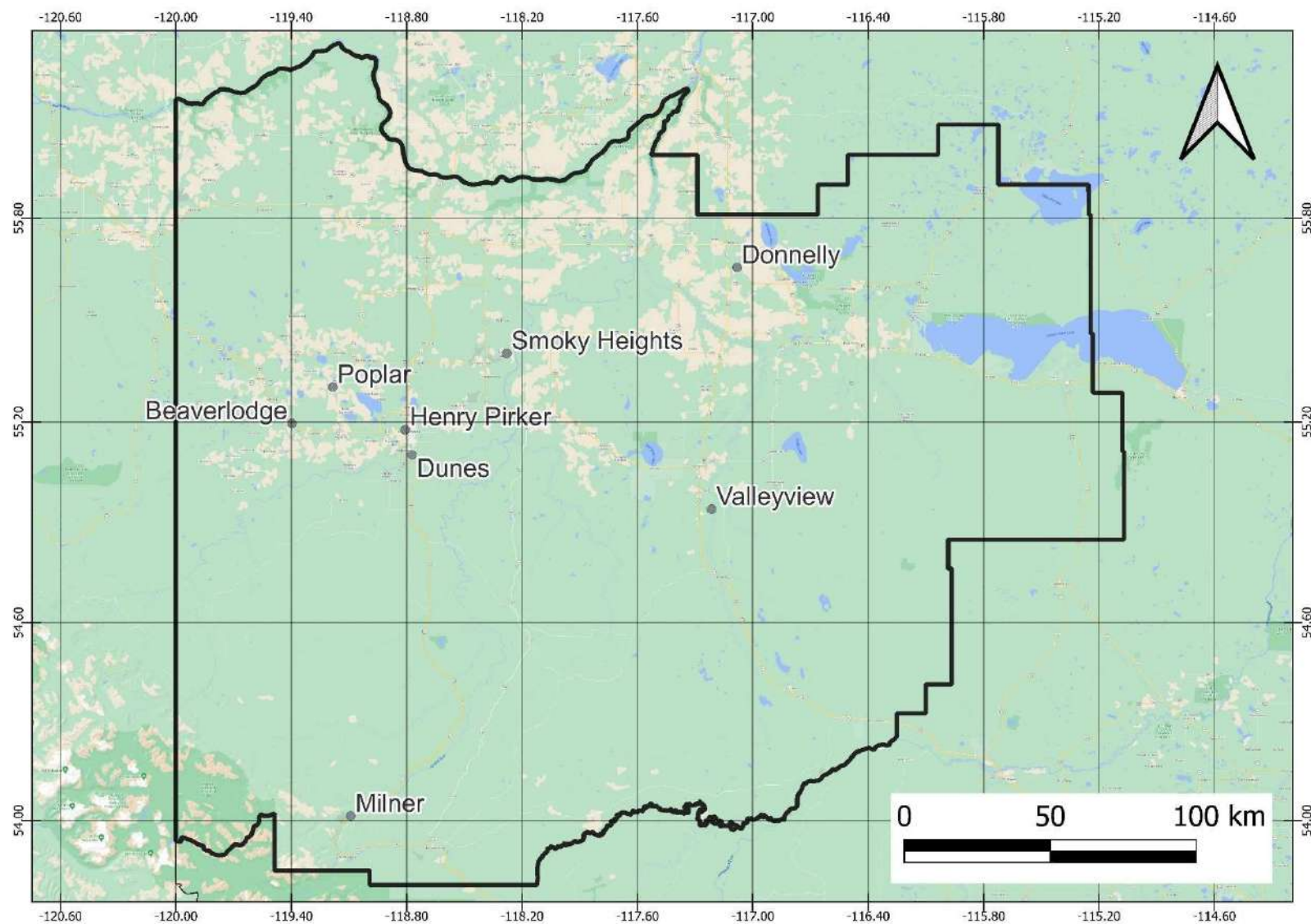
April 2022 Hourly Readings of Wind Direction (in degrees) at Milner



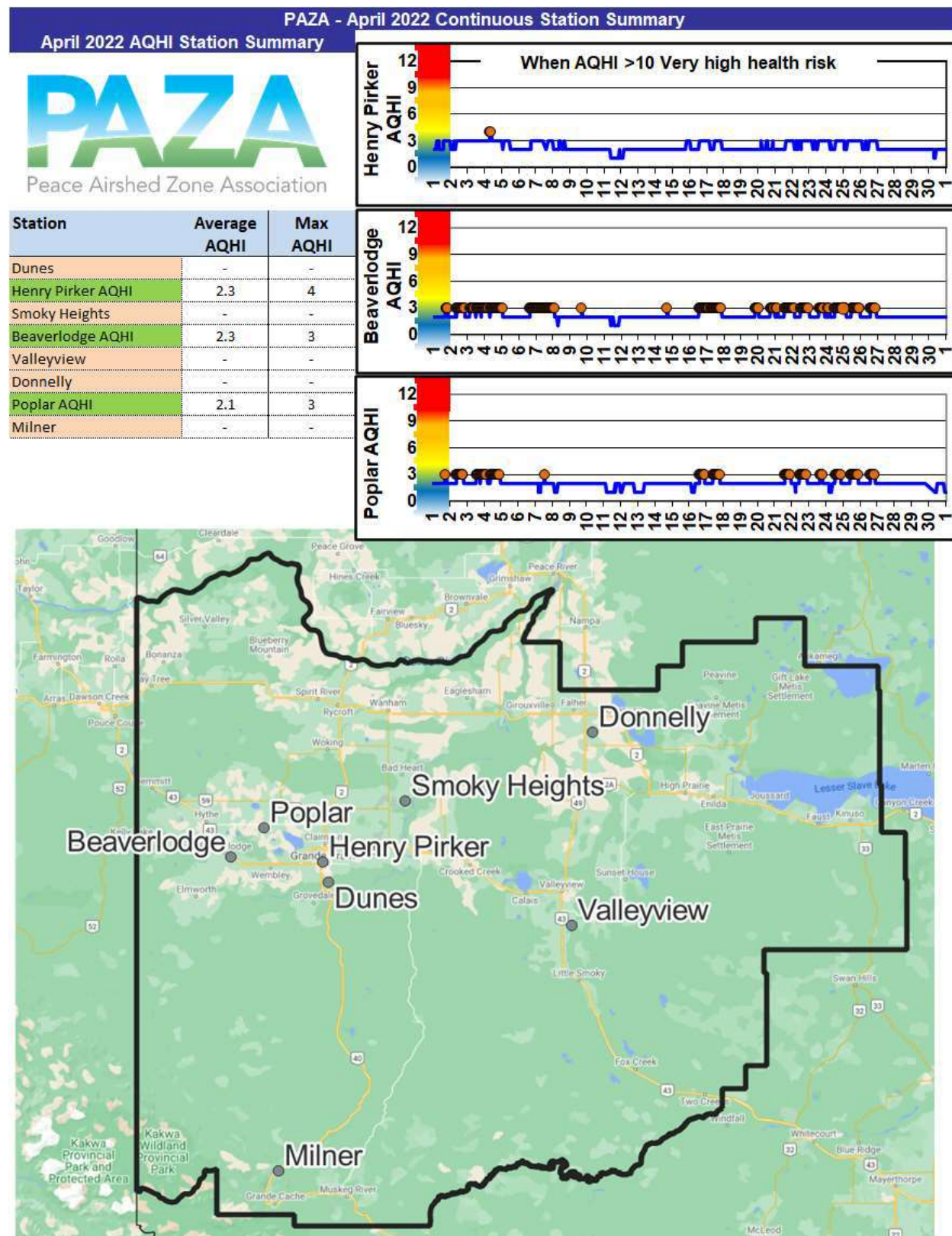


Milner April 2022 Wind Rose, wind speed in km/hr

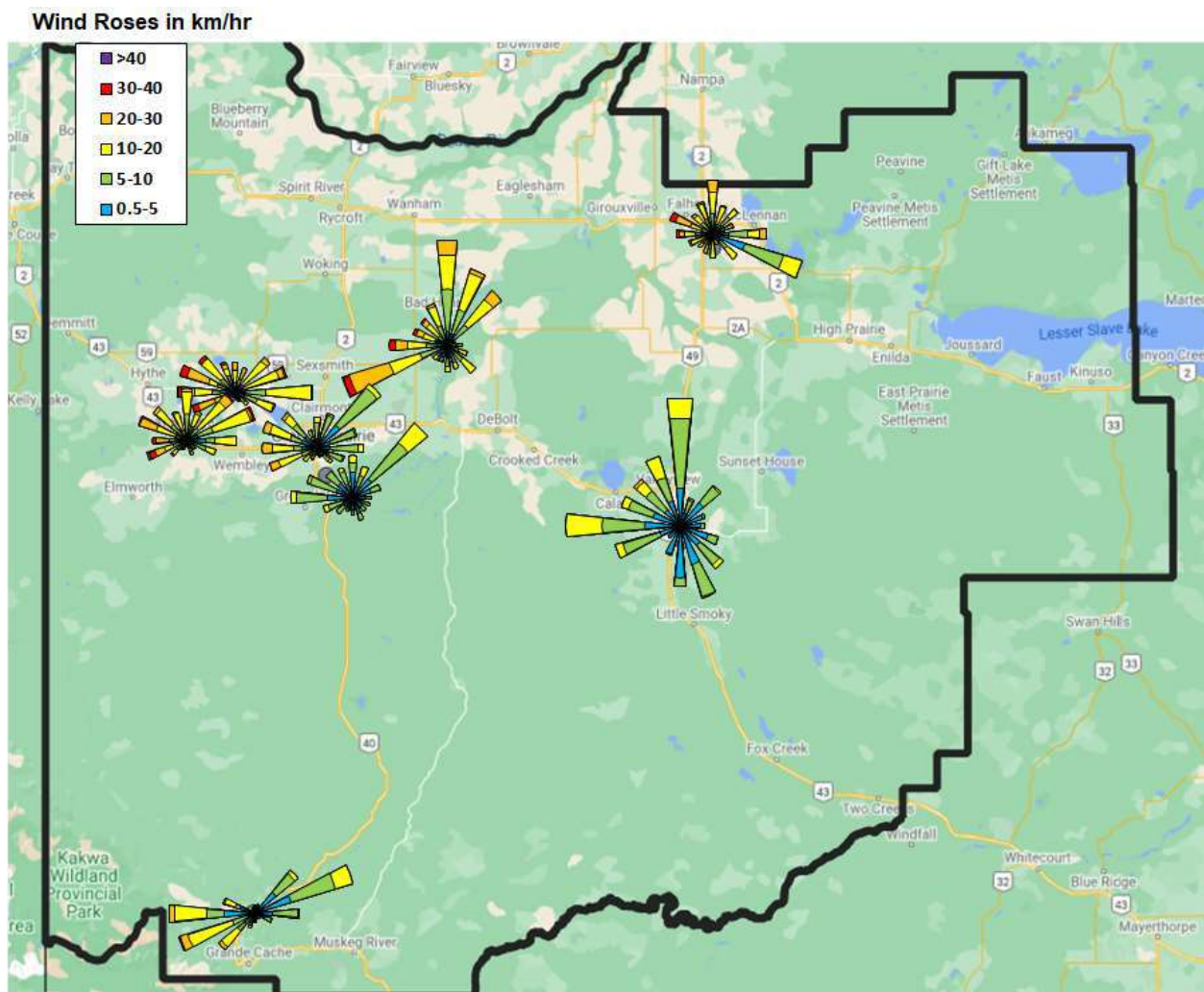
10 Concentration Summaries and Roses for PAZA



10.1 Air Quality Health Index (AQHI) Plots



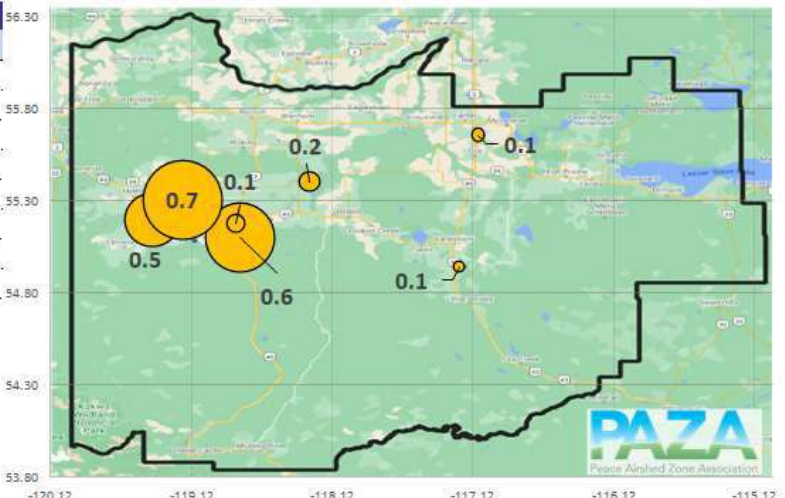
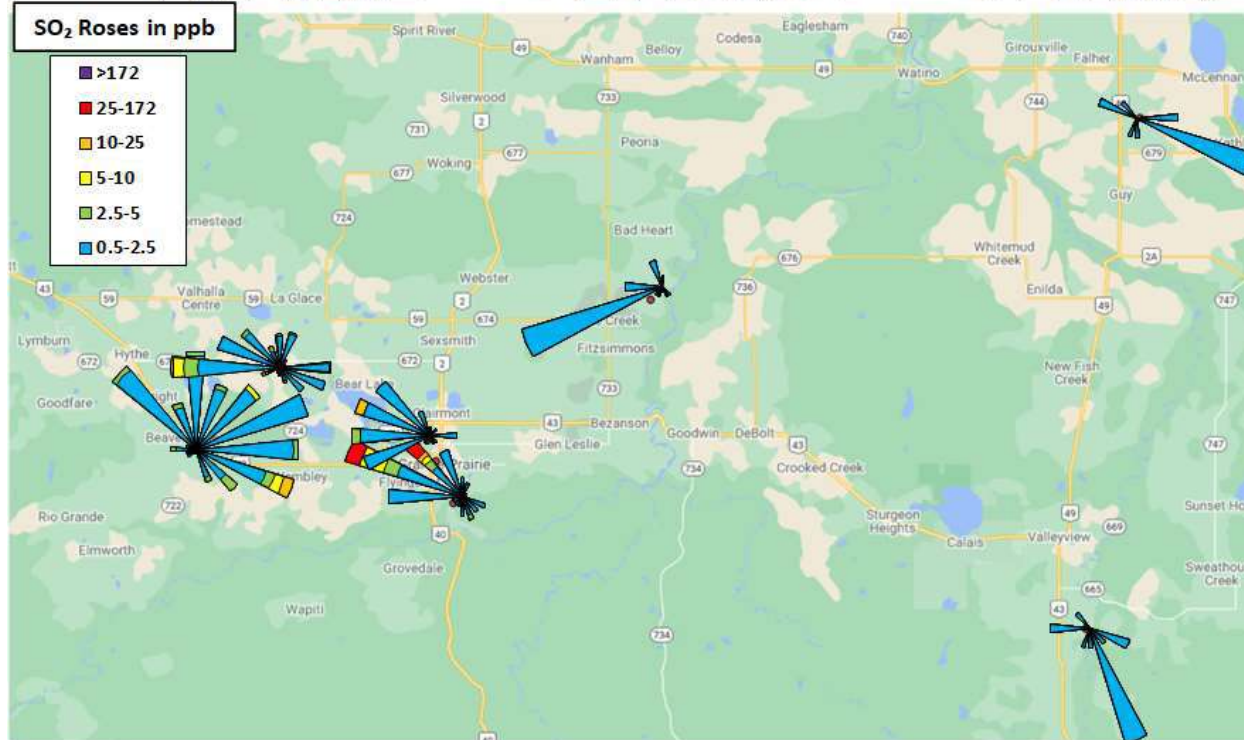
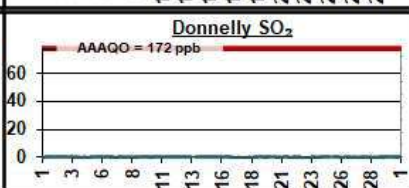
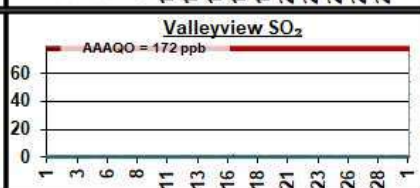
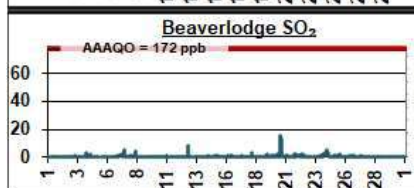
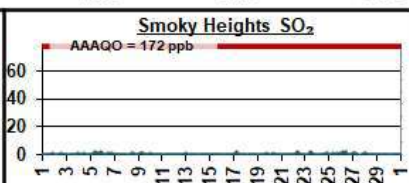
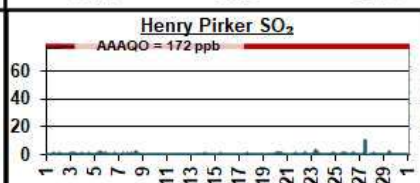
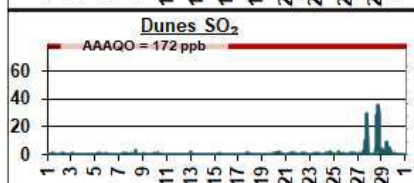
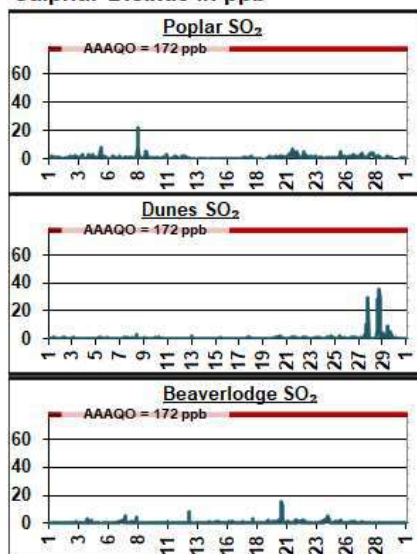
10.2 Wind Roses



10.3 Sulphur Dioxide (SO₂) Plots

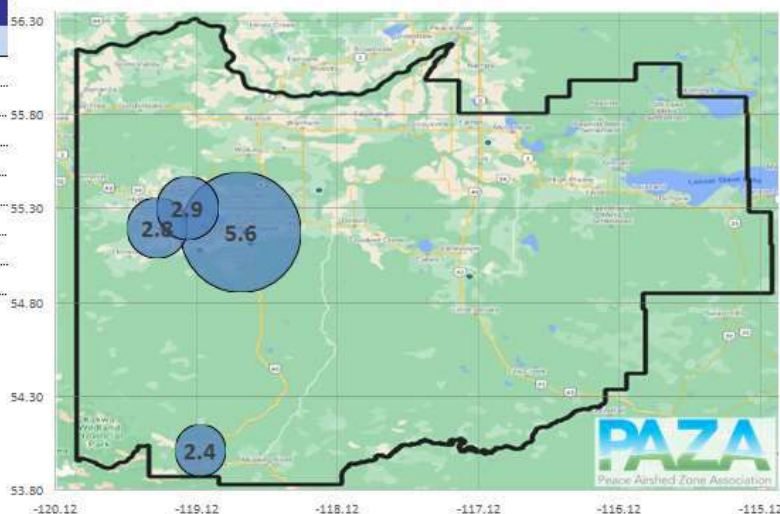
April 2022 SO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes SO ₂	0.6	36.0
Henry Pirkir SO ₂	0.1	10.1
Smoky Heights SO ₂	0.2	2.3
Beaverlodge SO ₂	0.5	15.4
Valleyview SO ₂	0.1	1.0
Donnelly SO ₂	0.1	0.8
Poplar SO ₂	0.7	21.5
Milner SO ₂	-	-

Sulphur Dioxide in ppb

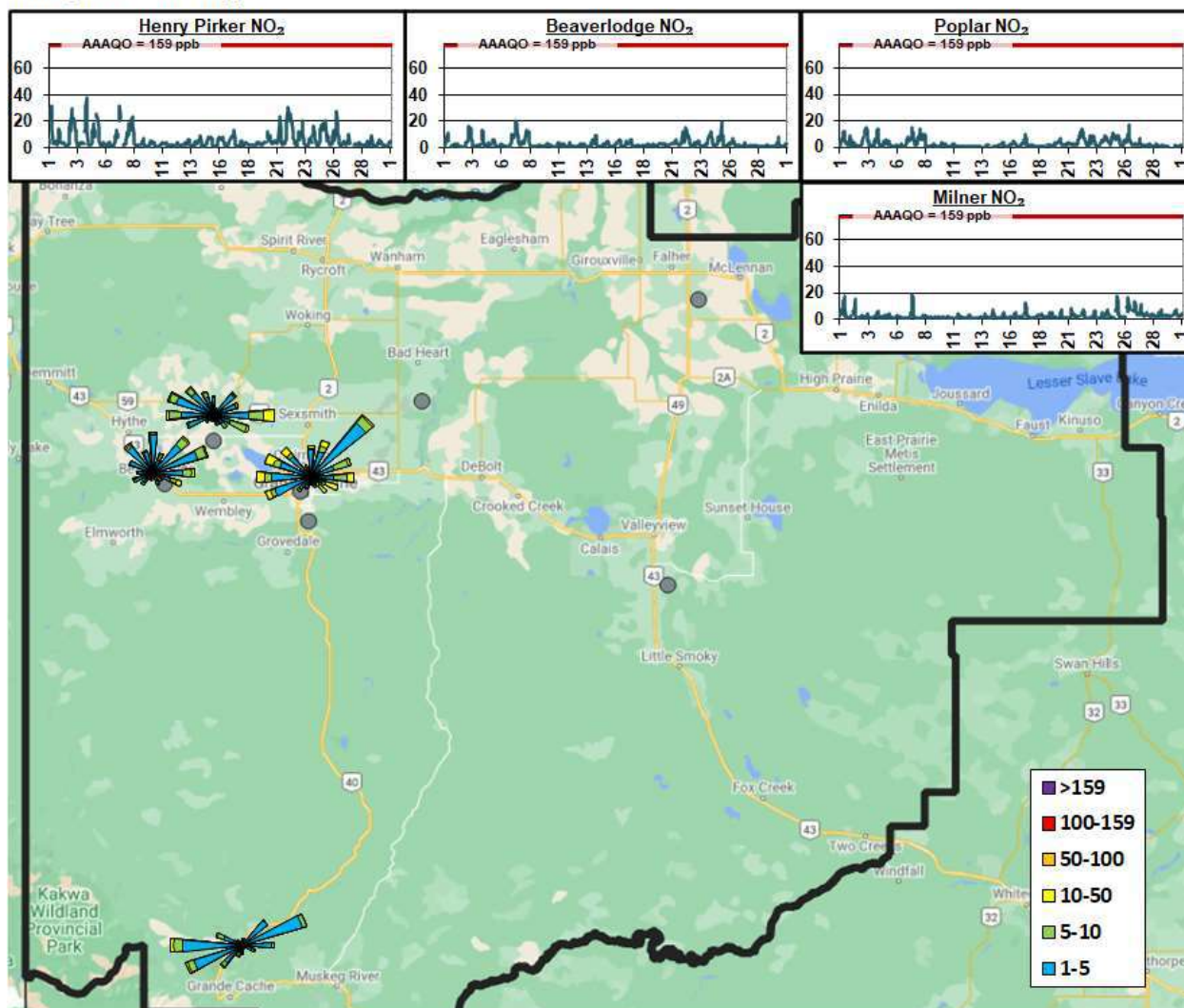


10.4 Nitrogen Dioxide (NO₂) Plots

April 2022 NO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	5.6	38.2
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	2.8	20.3
Valleyview NO ₂	-	-
Donnelly NO ₂	-	-
Poplar NO ₂	2.9	17.5
Milner NO ₂	2.4	18.3

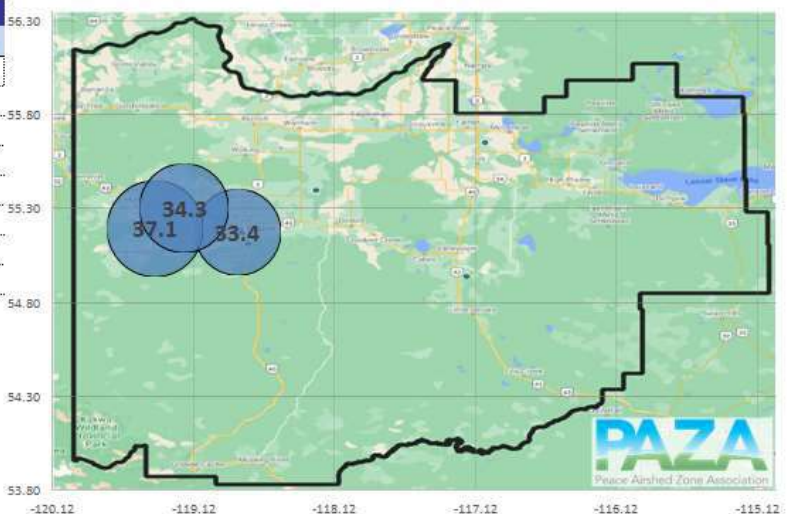


Nitrogen Dioxide in ppb

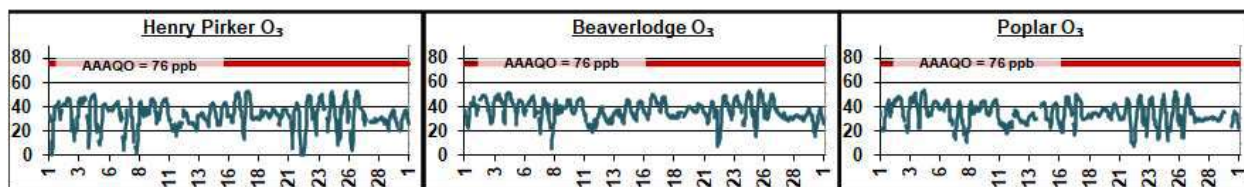


10.5 Ozone (O₃) Plots

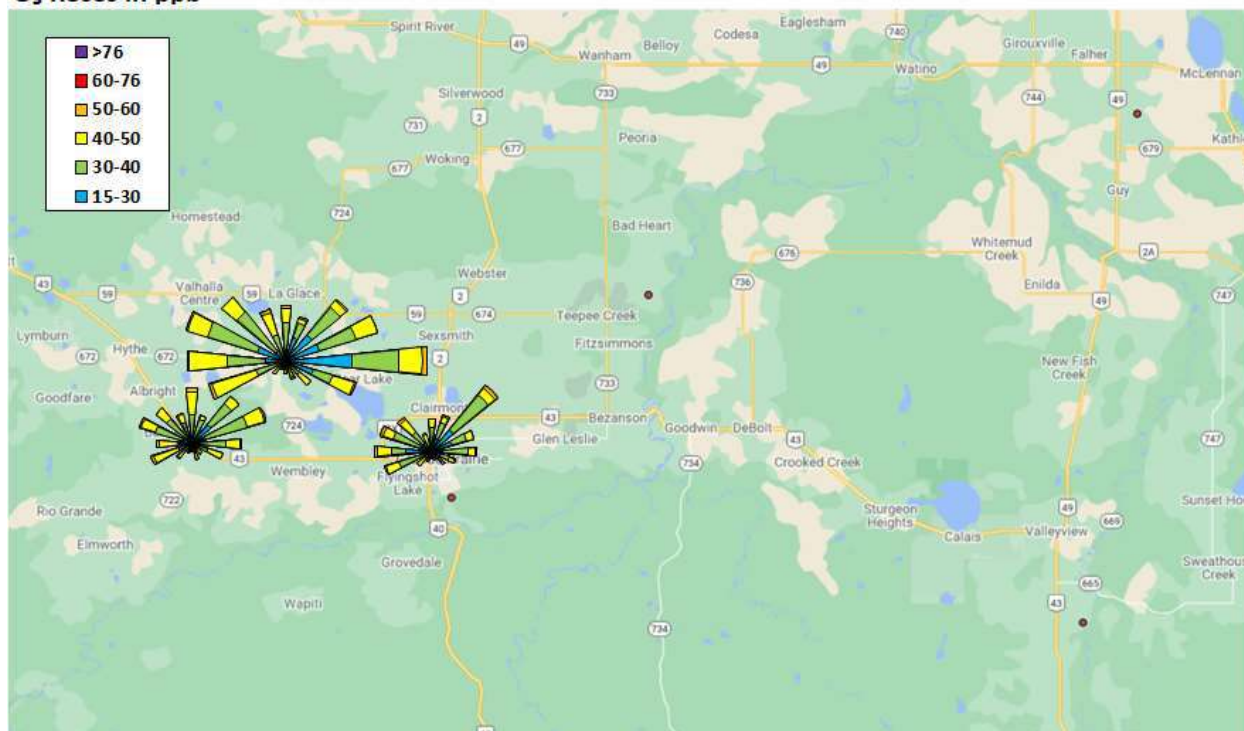
April 2022 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	33.4	53.3
Smoky Heights O ₃	-	-
Beaverlodge O ₃	37.1	53.6
Valleyview O ₃	-	-
Donnelly O ₃	-	-
Poplar O ₃	34.3	53.3
Milner O ₃	-	-



Ozone in ppb

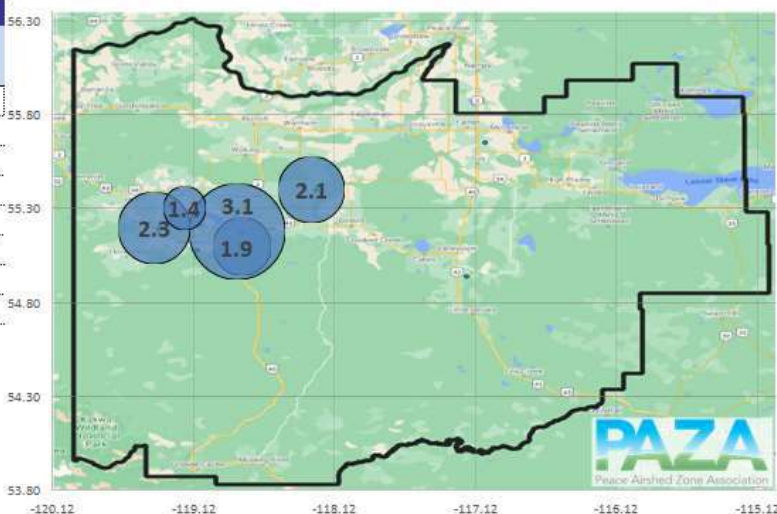


O₃ Roses in ppb

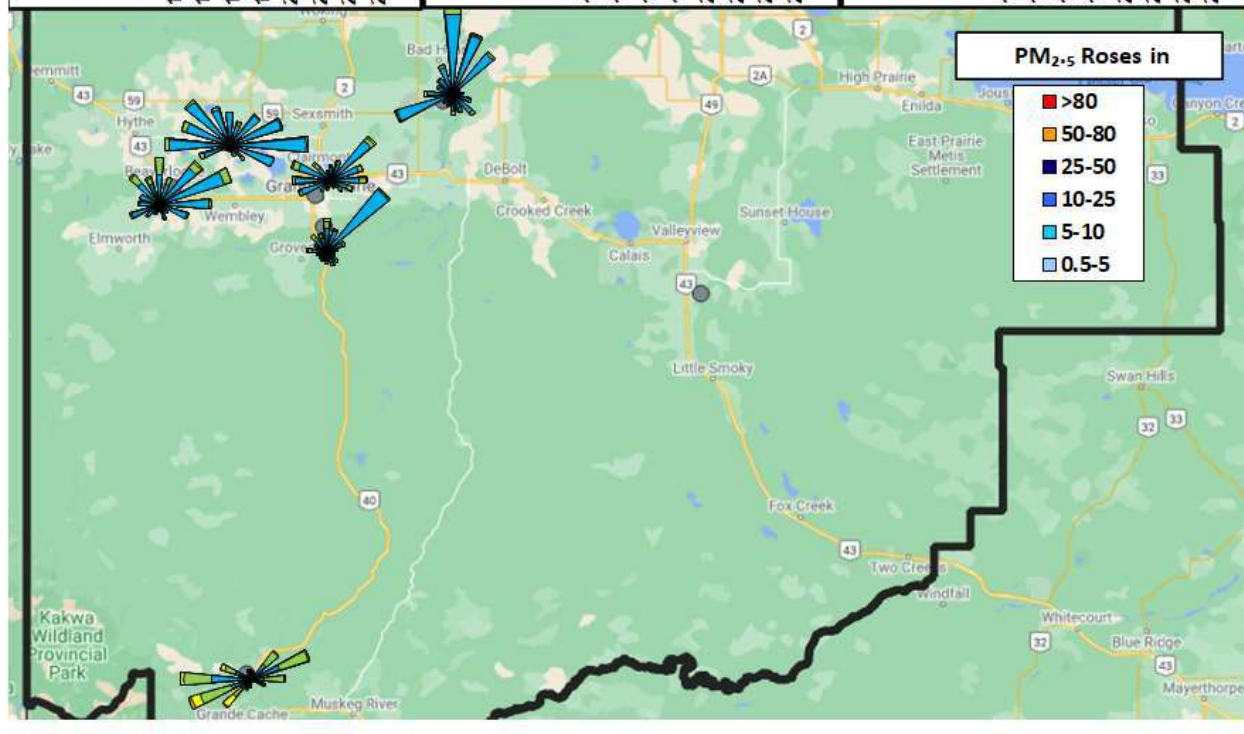
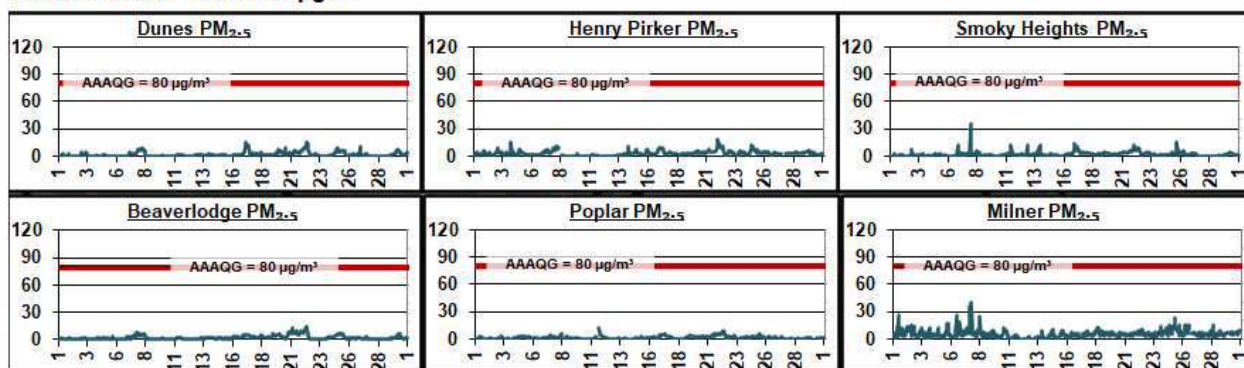


10.6 Fine Particulate Matter (PM_{2.5}) Plots

April 2022 PM _{2.5} Station Summary		
Station	Avg µg/m ³	Max µg/m ³
Dunes PM _{2.5}	1.9	16.4
Henry Pirkler PM _{2.5}	3.1	18.8
Smoky Heights PM _{2.5}	2.1	35.6
Beaverlodge PM _{2.5}	2.3	14.3
Valleyview PM _{2.5}	-	-
Donnelly PM _{2.5}	-	-
Poplar PM _{2.5}	1.4	11.7
Milner PM _{2.5}	5.7	40.9

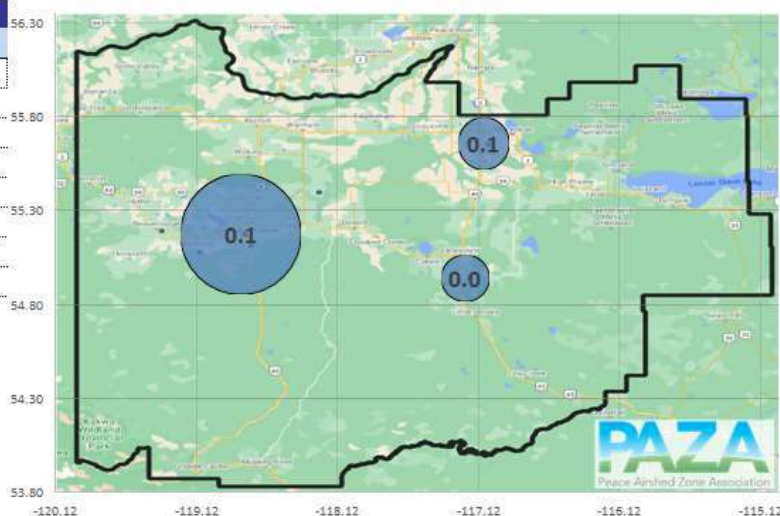


Fine Particulate Matter in µg/m³

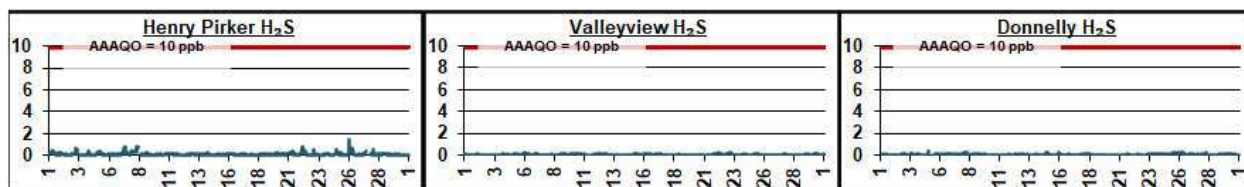


10.7 Hydrogen Sulphide (H₂S) Plots

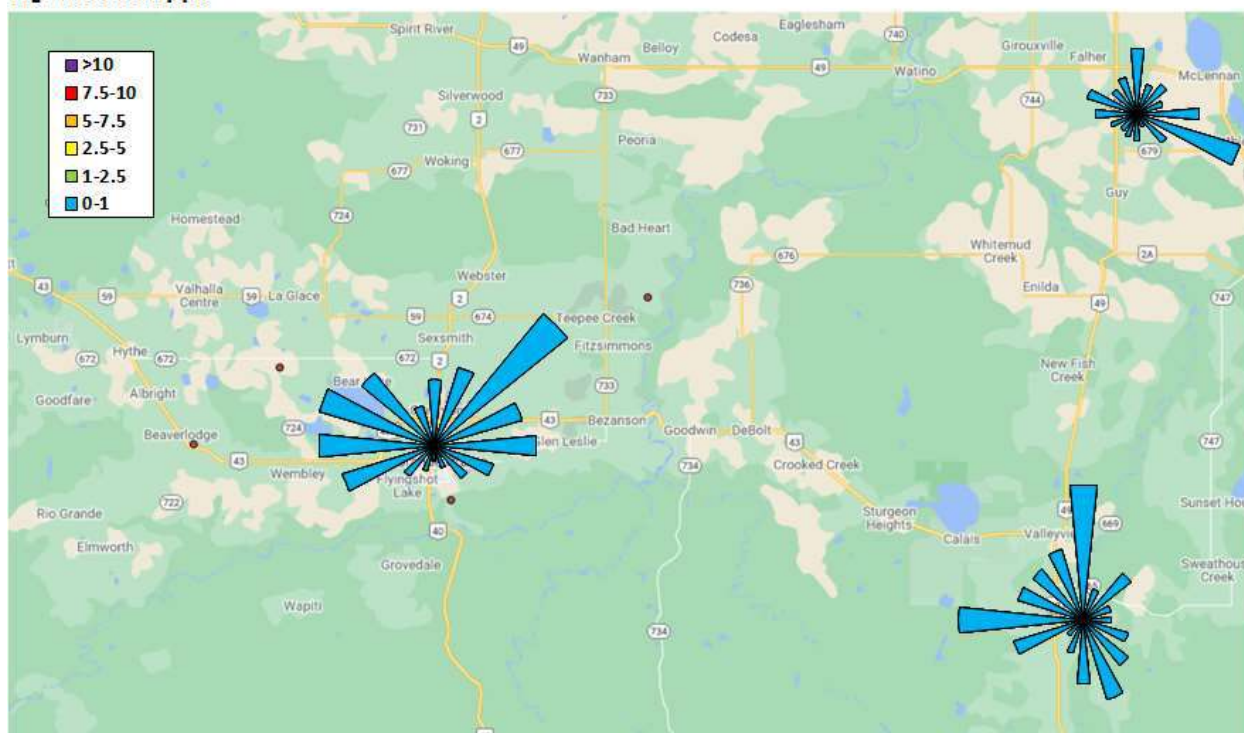
April 2022 H ₂ S Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirker H ₂ S	0.1	1.4
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.0	0.3
Donnelly H ₂ S	0.1	0.4
Poplar H ₂ S	-	-
Milner H ₂ S	-	-



Hydrogen Sulphide in ppb

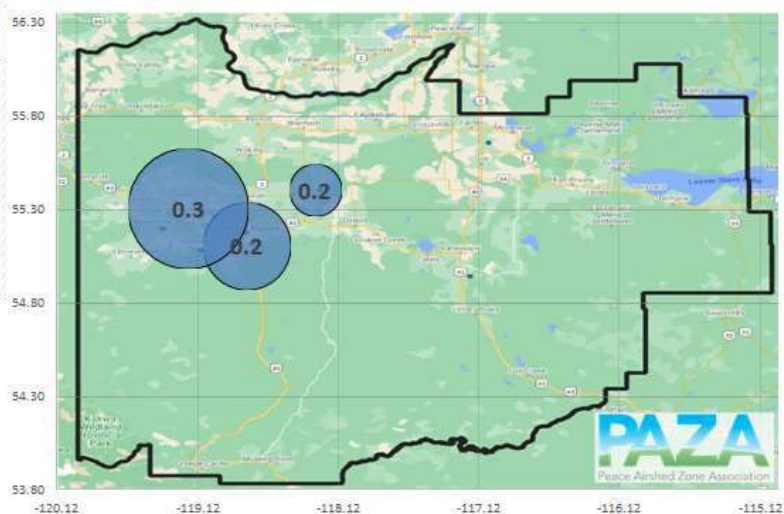


H₂S Roses in ppb

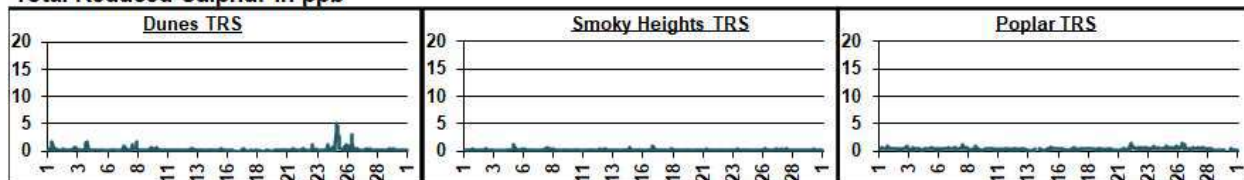


10.8 Total Reduced Sulphur (TRS) Plots

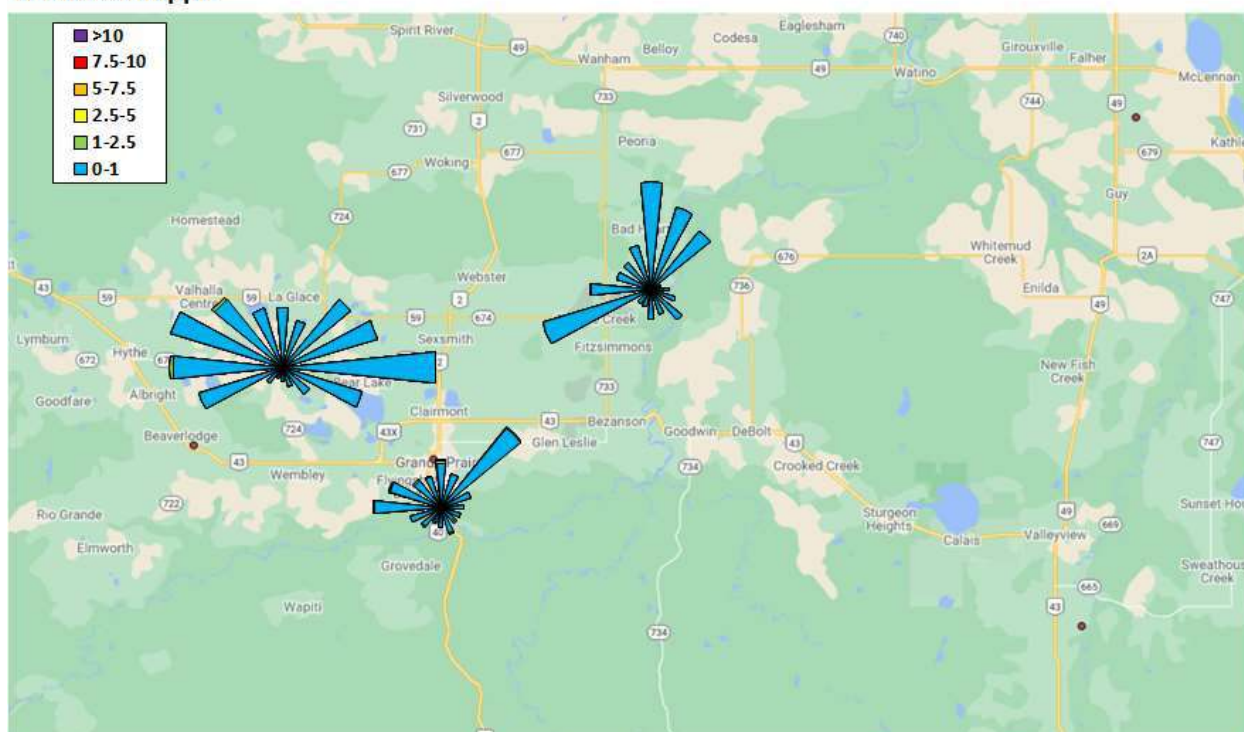
April 2022 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.2	5.1
Henry Piker TRS	-	-
Smoky Heights TRS	0.2	1.1
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Donnelly TRS	-	-
Poplar TRS	0.3	1.5
Milner TRS	-	-



Total Reduced Sulphur in ppb



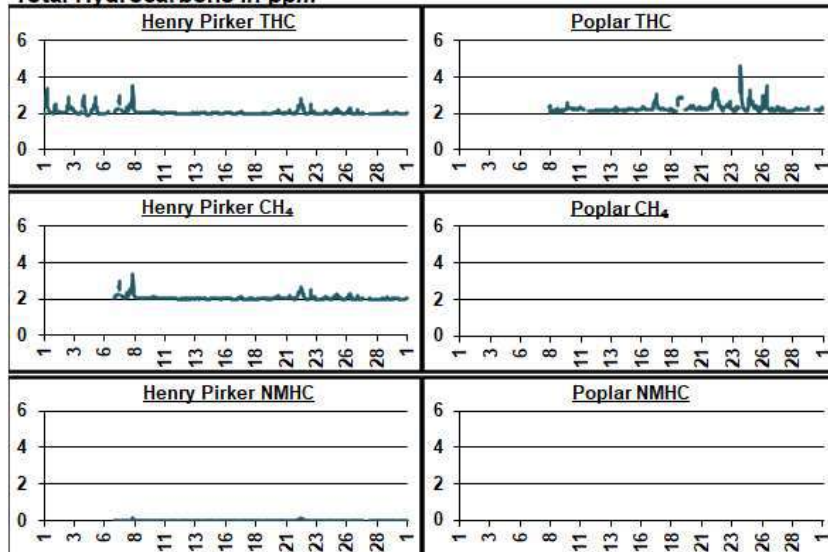
TRS Roses in ppb



10.9 Total Hydrocarbon (THC) Plots

April 2022 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	3.5	-	-	-	-
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Donnelly THC	-	-	-	-	-	-
Poplar THC	-	-	-	-	-	-

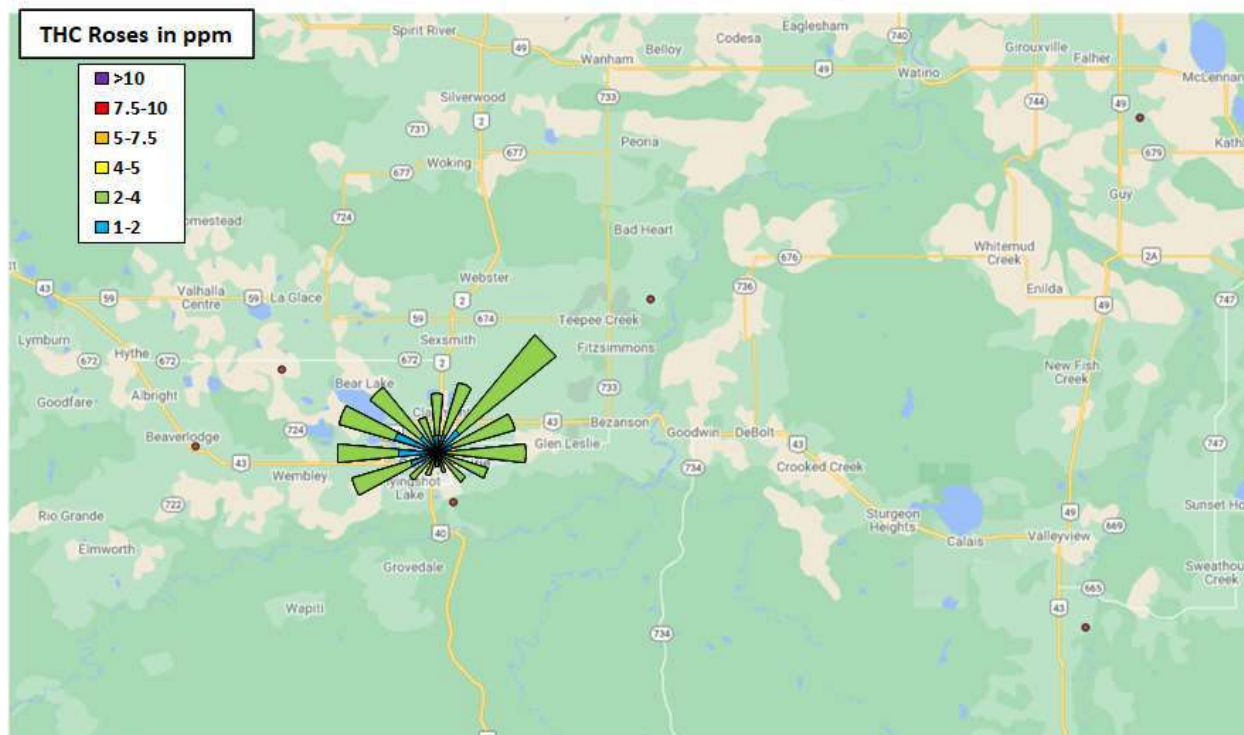
Total Hydrocarbons in ppm



Total Hydrocarbons (THC)

Methane (CH₄)

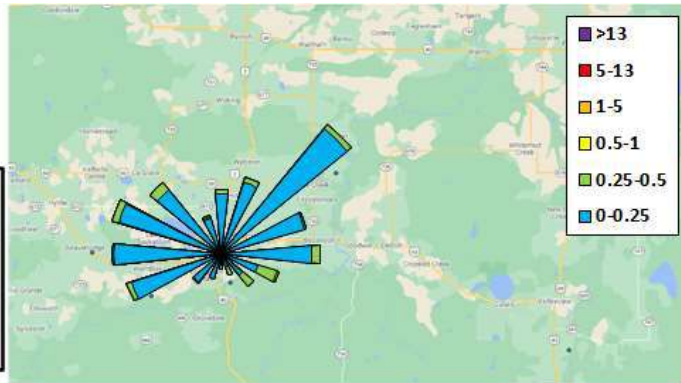
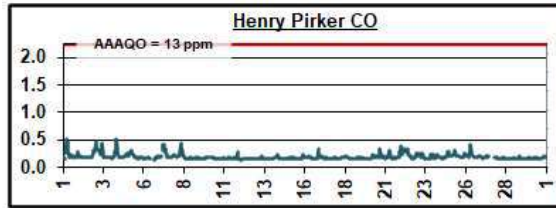
Non-Methane Hydrocarbons (NMHC)



10.10 Carbon Monoxide (CO) Plots

April 2022 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Pirker CO	0.19	0.52

Carbon Monoxide in ppm



10.11 Meteorology Summary

April 2022 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m ²)	WS (km/hr)	WD (deg)	WD
Dunes	1.5	59.9	-	5.3	355	N
Henry Pirkner	2.5	56.0	135.3	8.2	310	NW
Smoky Heights	1.7	-	-	12.0	316	NW
Beaverlodge	1.1	62.3	-	12.0	348	NNW
Valleyview	2.4	66.4	-	5.7	312	NW
Donnelly	1.6	-	-	10.8	355	N
Poplar	0.9	-	-	13.3	345	NNW
Milner	-	-	-	7.3	256	255.7

Temp (°C) Outside Temperature

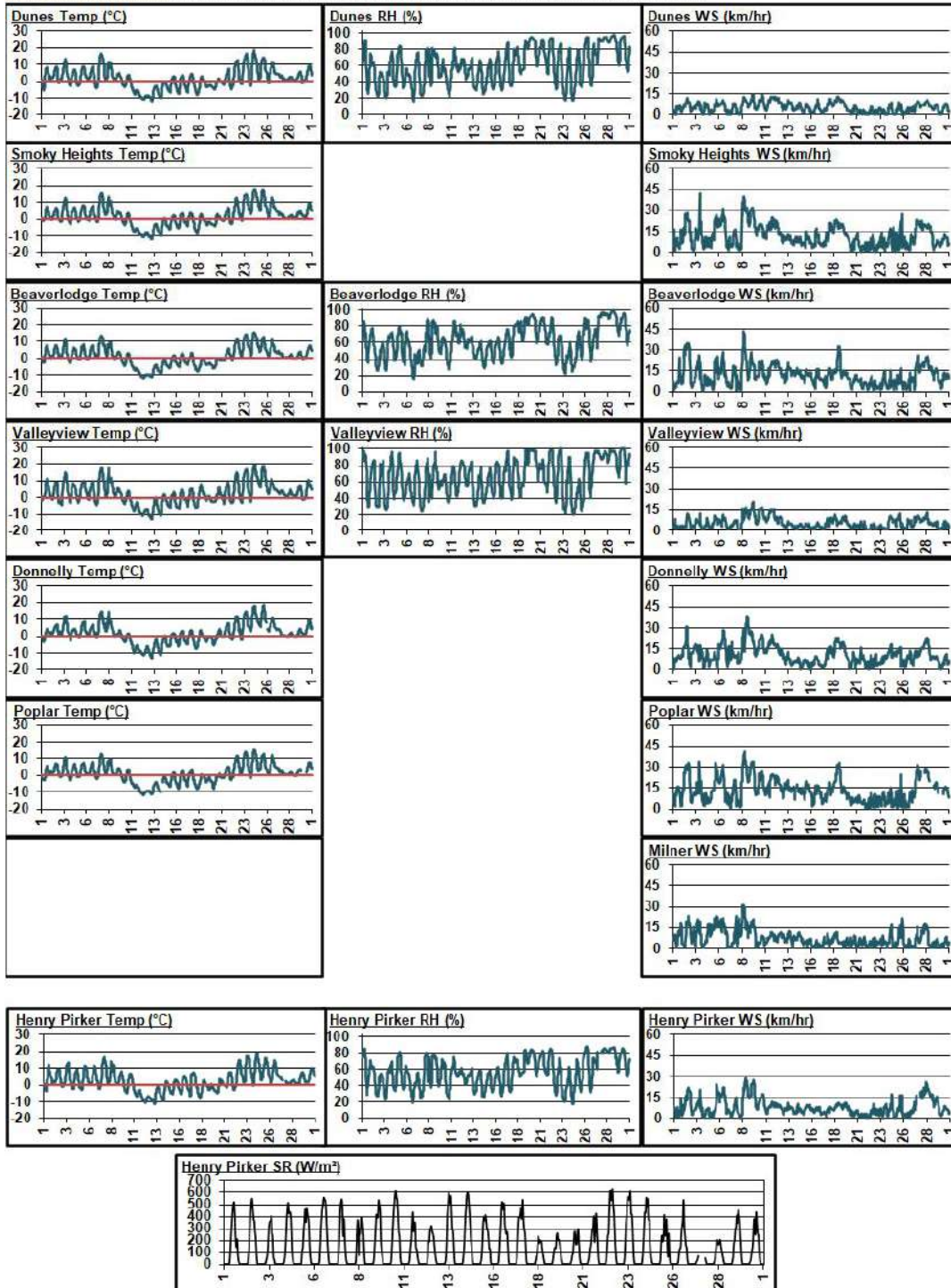
RH (%) Relative Humidity

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 April 2022

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
7a	Steepprock Creek			0.2		09-35-072-13 W6M
7b	Steepprock Creek			0.1		
9a	Spirit River	0.2				08-12-079-07 W6M
9b	Spirit River	0.2				
12a	Hythe	0.3				14-36-072-11 W6M
12b	Hythe	0.2				
27a	Grande Prairie I			3.6		08-15-071-06 W6M
27b	Grande Prairie I			2.9		
36a	Guy				0.1	03-04-076-22 W5M
36b	Guy				0.1	
37a	Crooked Creek		38.0			16-01-071-26 W5M
37b	Crooked Creek		38.0			
42a	Sunset House			0.3		05-32-070-19 W5M
42b	Sunset House			0.1		
46a	Little Smoky	0.1				12-01-065-21 W5M
46b	Little Smoky	0.1				
47a	Kinuso			0.1		12-10-073-10 W5M
47b	Kinuso			0.4		
48a	Deer Mountain	0.1				15-22-068-09 W5M
48b	Deer Mountain	0.2				
D4a	Duvernay 4	0.9			0.1	04-33-062-20 W5M
D4b	Duvernay 4	0.9			0.1	
J1a	Jayar1 Plant	0.4				06-08-062-03 W6M
J1b	Jayar1 Plant	0.4				
J2a	Jayar2 14-8				0.1	07-08-062-03 W6M
J2b	Jayar2 14-8				0.1	
J3a	Jayar3 Bone Yard			0.7		14-08-062-03 W6M
J3b	Jayar3 Bone Yard			0.8		
M1a	Pipeline			1.0		12-14-058-08 W6M
M1b	Pipeline			1.1		
M3a	Wanyandie	<0.1				11-13-058-08 W6M
M3b	Wanyandie	<0.1				

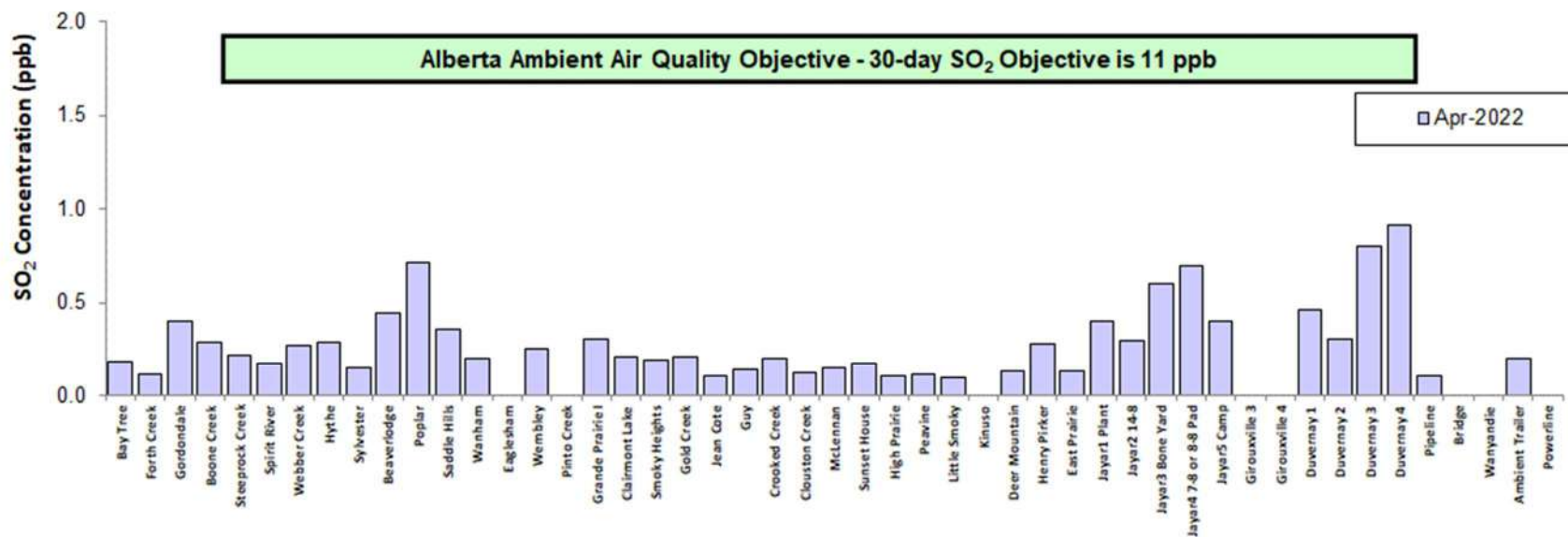
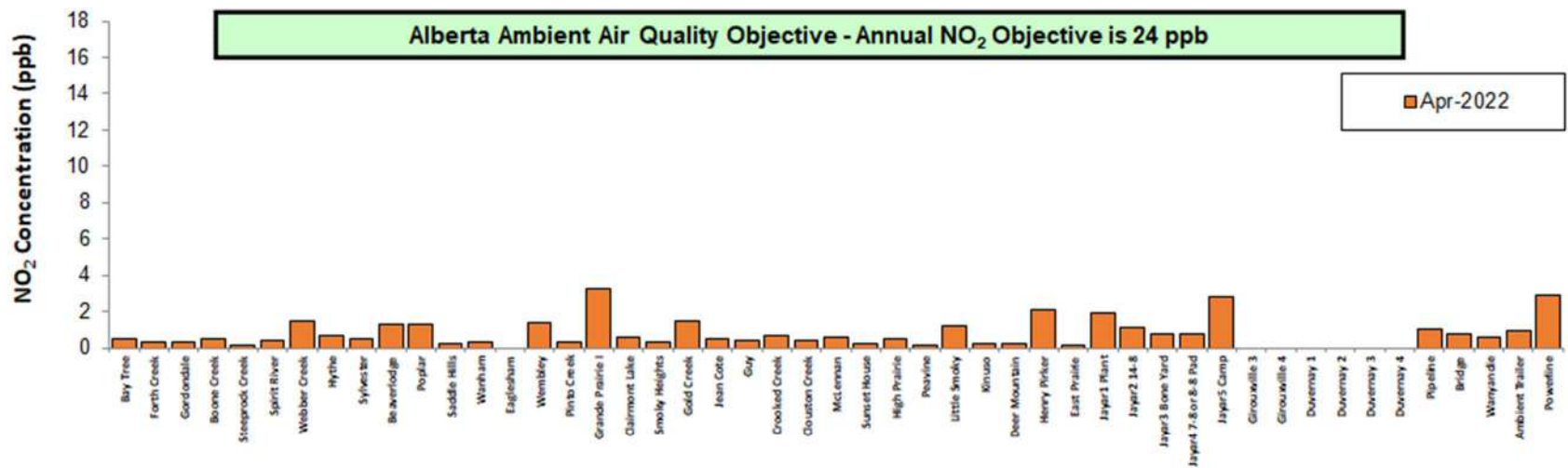
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.2	40.1	0.5	-	13-16-078-13 W6M
3	Forth Creek	0.1	-	0.3	-	04-13-082-07 W6M
4	Gordondale	0.4	-	0.3	-	04-34-078-10 W6M
5	Boone Creek	0.3	-	0.5	-	01-23-076-11 W6M
7	Steeprock Creek	0.2	-	0.1	-	09-35-072-13 W6M
9	Spirit River	0.2	-	0.4	-	08-12-079-07 W6M
11	Webber Creek	0.3	-	1.5	-	09-36-074-09 W6M
12	Hythe	0.3	-	0.7	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.5	-	08-06-069-12 W6M
16	Beaverlodge	0.4	-	1.3	-	15-36-071-10 W6M
17	Poplar	0.7	-	1.3	-	13-06-073-08 W6M
18	Saddle Hills	0.4	-	0.2	-	04-25-074-07 W6M
19	Wanham	0.2	-	0.3	-	16-22-077-03 W6M
21	Eaglesham	-	-	-	-	16-21-079-25 W5M
24	Wembley	0.3	-	1.4	-	12-31-070-08 W6M
25	Pinto Creek	-	-	0.4	-	04-24-069-11 W6M
27	Grande Prairie I	0.3	-	3.2	-	08-15-071-06 W6M
28	Clairmont Lake	0.2	-	0.6	-	09-06-073-04 W6M
29	Smoky Heights	0.2	-	0.3	-	04-06-075-02 W6M
32	Gold Creek	0.2	-	1.5	-	06-33-067-05 W6M
35	Jean Cote	0.1	-	0.5	-	12-35-079-21 W5M
36	Guy	0.1	-	0.4	0.1	03-04-076-22 W5M
37	Crooked Creek	0.2	38.0	0.6	-	16-01-071-26 W5M
39	Clouston Creek	0.1	-	0.4	-	12-01-073-22 W5M
40	McLennan	0.2	-	0.5	-	03-29-077-19 W5M
42	Sunset House	0.2	-	0.2	-	05-32-070-19 W5M
43	High Prairie	0.1	-	0.5	-	16-13-074-17 W5M
44	Peavine	0.1	-	0.2	-	03-05-079-15 W5M
46	Little Smoky	0.1	-	1.2	-	12-01-066-21 W5M
47	Kinuso	-	31.5	0.2	-	12-10-073-10 W5M
48	Deer Mountain	0.1	-	0.2	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	2.1	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.1	-	11-13-079-08 W6M
57	Jayar1 Plant	0.4	-	1.9	0.1	06-08-062-03 W6M
58	Jayar2 14-8	0.3	-	1.1	0.1	07-08-062-03 W6M
59	Jayar3 Bone Yard	0.6	-	0.8	0.1	14-08-062-03 W6M
60	Jayar4 7-8 or 8-8 Pad	0.7	-	0.8	0.1	10-08-062-03 W6M
61	Jayar5 Camp	0.4	-	2.8	0.1	11-08-062-03 W6M
G3	Girouxville 3	-	-	-	0.3	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	missing	04-08-077-22 W5M
D1	Duvernay 1	0.5	-	-	0.1	04-33-062-20 W5M
D2	Duvernay 2	0.3	-	-	0.1	04-33-062-20 W5M
D3	Duvernay 3	0.8	-	-	0.1	04-33-062-20 W5M
D4	Duvernay 4	0.9	-	-	0.1	04-33-062-20 W5M
M1	Pipeline	0.1	-	1.1	-	12-14-058-08 W6M
M2	Bridge	<0.1	-	0.8	-	08-06-057-08 W6M
M3	Wanyandie	<0.1	-	0.6	-	11-13-058-08 W6M
M4	Ambient Trailer	0.2	-	0.9	-	09-15-058-08 W6M
M5	Powerline	<0.1	-	2.9	-	06-14-058-08 W6M

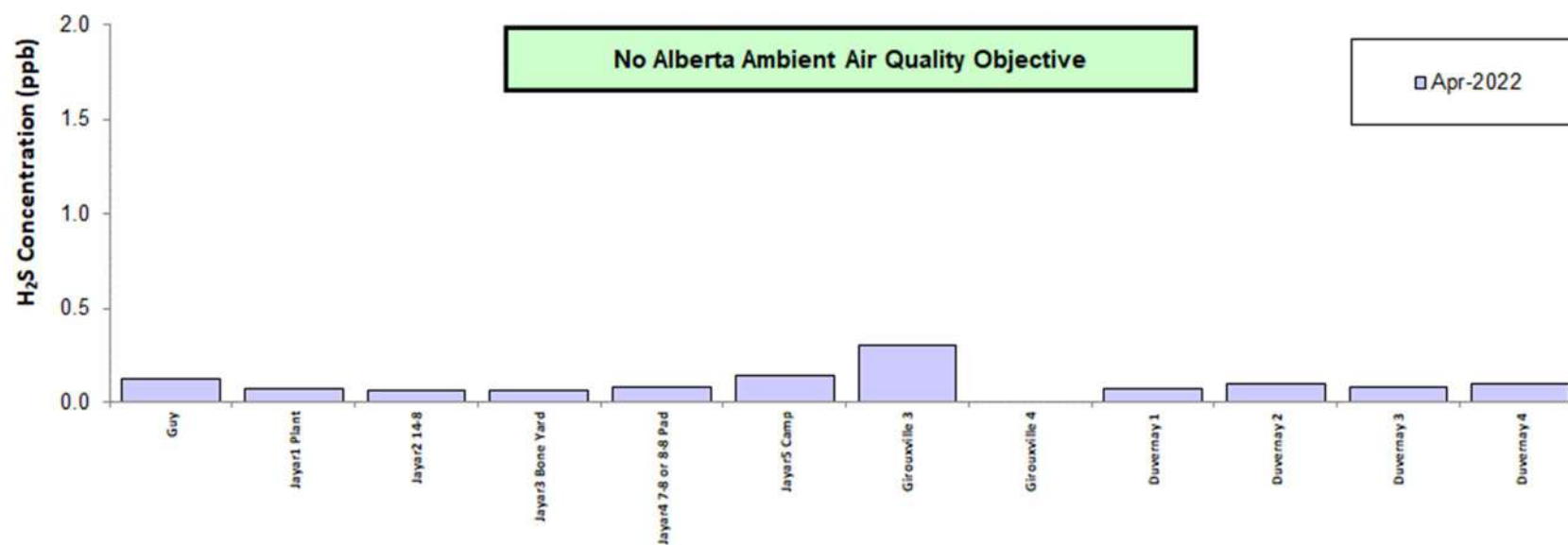
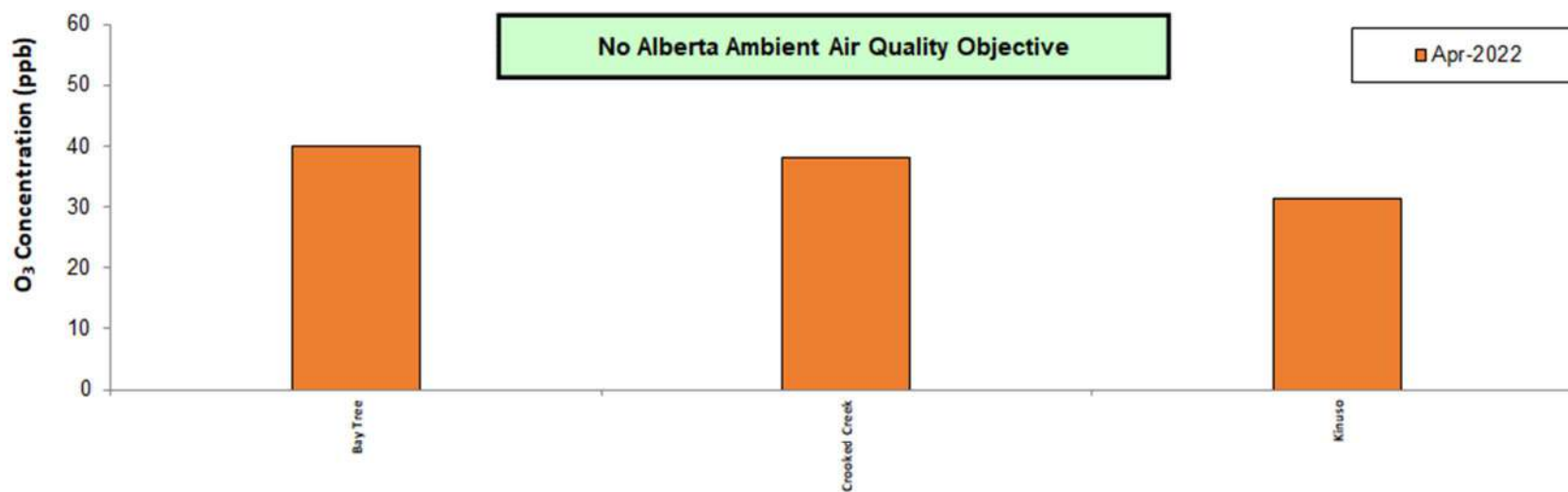
Passive Summary for April 2022

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

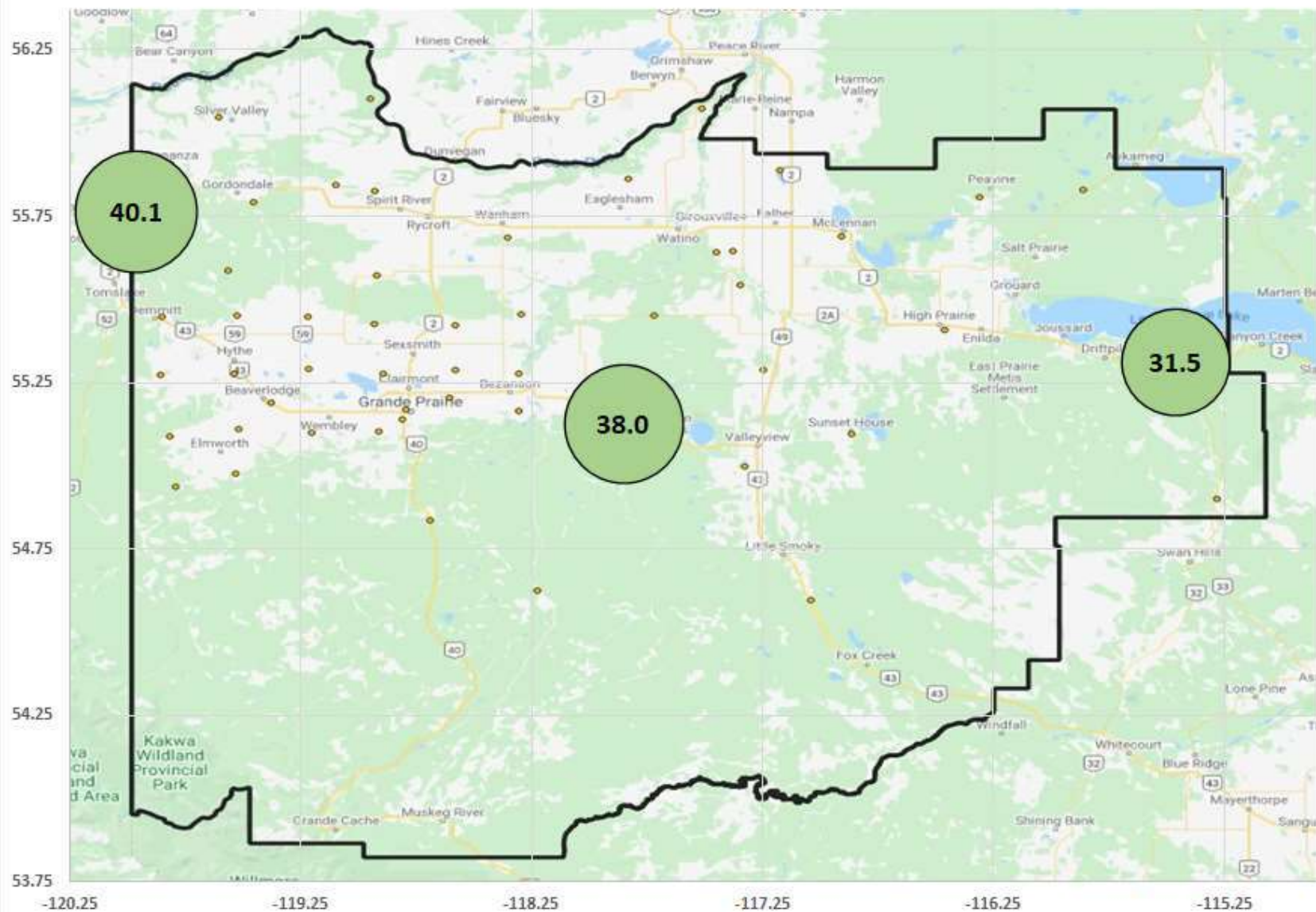
Passive Summary for April 2022 (PAZA)				
Mean	0.3	36.5	0.9	0.1
Standard Deviation	0.2	4.5	0.8	0.1
Minimum	0.1	31.5	0.1	0.1
	Little Smoky (#46)	Kinuso (#47)	East Prairie (#50)	Jayar2 14-8 (#58)
Maximum	0.9	40.1	3.2	0.3
	Duvernay 4 (#D4)	Bay Tree (#2)	Grande Prairie I (#27)	Girouxville 3 (#G3)

Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.5	37.1	2.8	-
Beaverlodge Passive (#16)	0.4	-	1.3	-
PAZA Henry Pirker Station	0.1	33.4	5.6	0.1
Henry Pirker passive (#49)	0.3	-	2.1	-
Milner Station	-	-	2.4	-
Henry Pirker passive (#49)	0.2	-	0.9	-

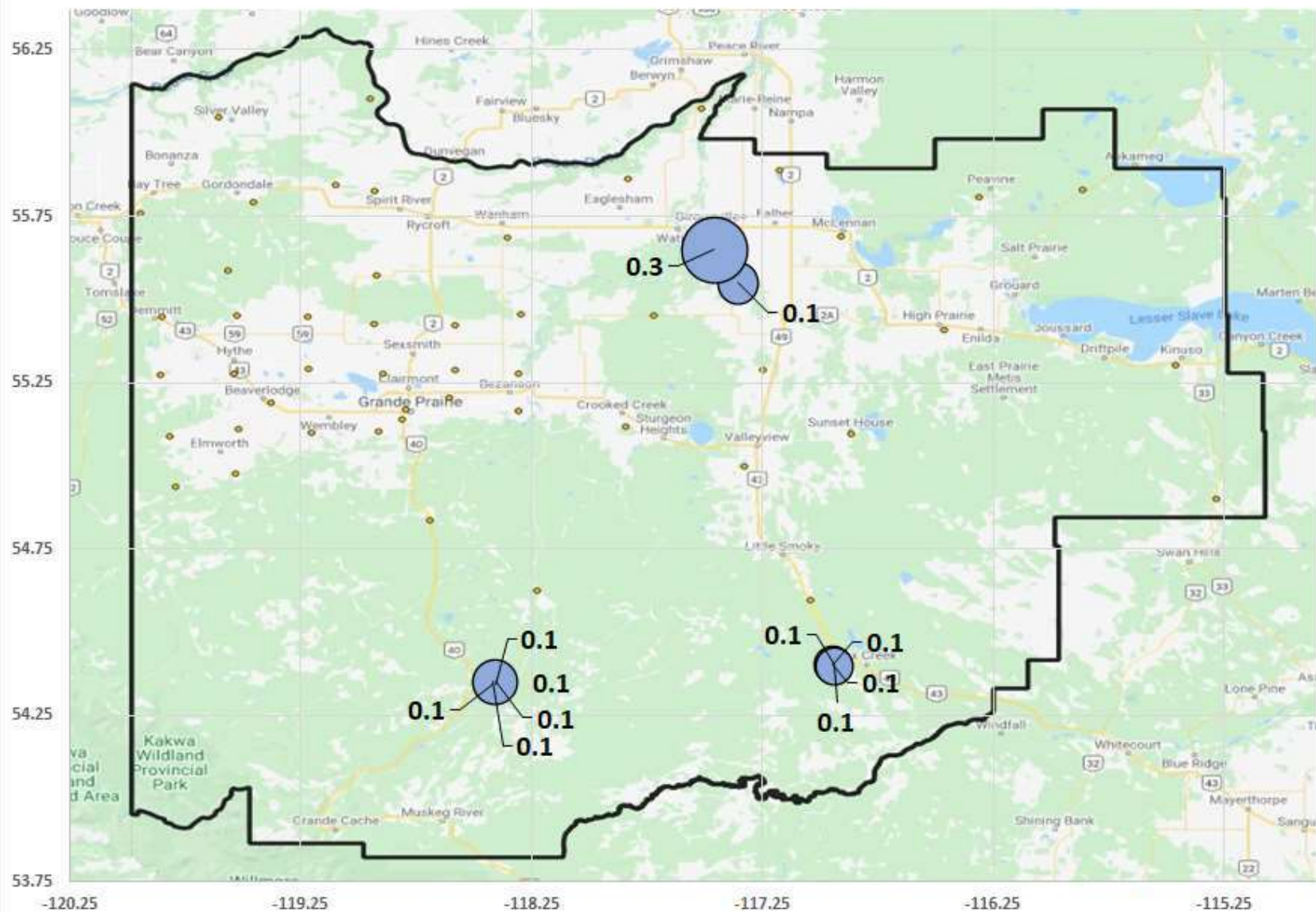




O₃ Monthly Average (units in ppb)



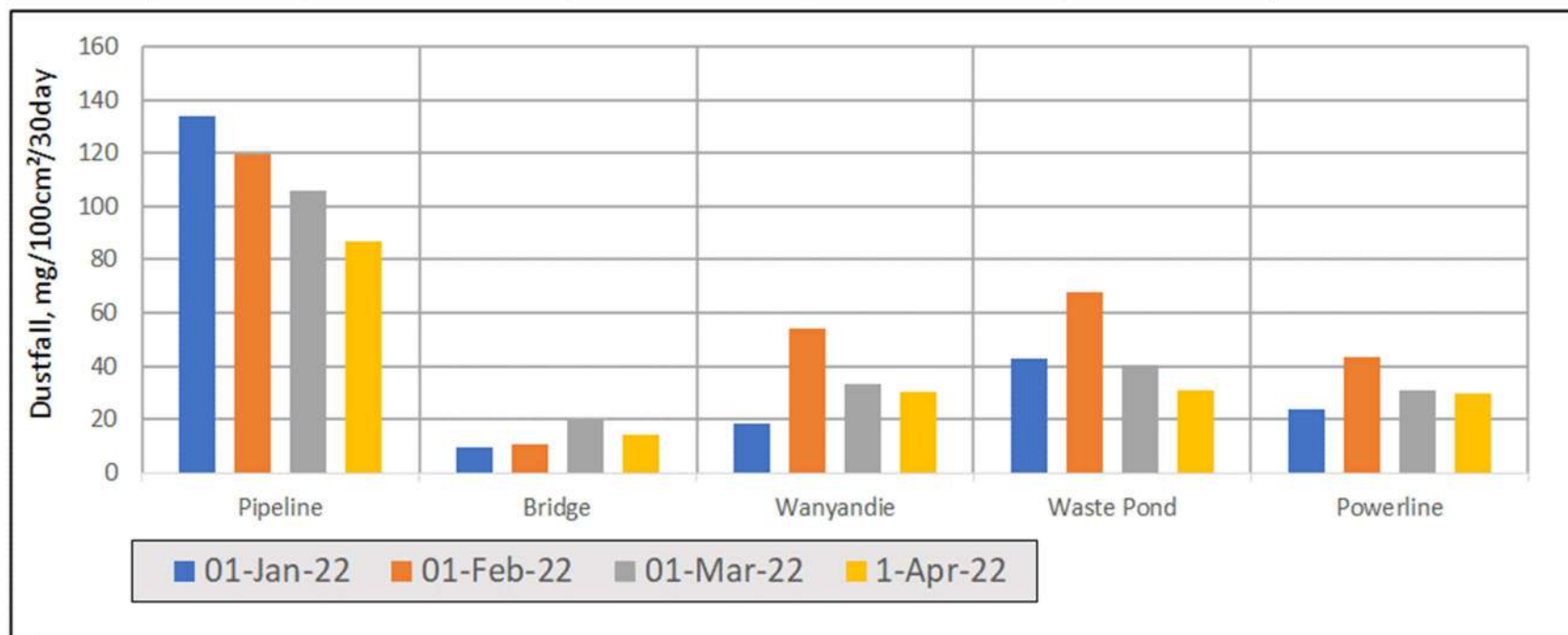
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples April 2022

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
April	2022	Pipeline	86.6	51.7	29	
April	2022	Bridge	14.4	9.9	29	
April	2022	Wanyandie	30.4	17.5	29	
April	2022	Waste Pond	31.2	15.2	29	
April	2022	Powerline	29.6	12.9	29	
April	2022	Powerline Dup	24.3	14.4	29	RPD= 20% / 11%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

April 2022