

Peace Airshed Zone Association Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

November 2022

December 31, 2022

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

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

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

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

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

PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr. Kevin McCullum, P.Eng. to provide data validation and reporting.

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

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

Continuous Monitoring:

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

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for November 2022 were submitted to the ETS data system.

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
	Pouce Coupe	03-03-081-13-W6	00247673-00-00
AltaGas Ltd.	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
	Bonanza	11-25-081-11-W6	0000029-01-00
	Progress/Gordondale	01-01-077-10-W6	00010036-02-00
Canadian Natural	Gold Creek	13-26-067-05-W6	00010446-02-00
Resources Limited	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
	Eaglesham	01-25-076-01-W6	00241532-00-00
	Kakut	14-12-075-03-W6	00248469-00-00
Long Run Exploration	Donnelly	06-01-077-21-W5	0000087-02-00
	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
•	Fourth Creek	16-11-082-09-W6	00000263-01-00
NorthRiver Midstream Inc.	Gordondale	11-26-079-09-W6	00011495-01-01
	Pouce Coupe/Bonanza	03-23-080-13-W6	00070203-01-01
	Tangent	13-29-080-23-W5	00001746-02-00
Penn West Petroleum Ltd.	Pouce Coupe	16-07-078-11-W6	00000614-01-00
Datas D	Rycroft	08-25-077-06-W6	00011351-02-00
Petrus Resources	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

Table A. PAZA members with Facility Operating Approvals

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

	5 00000 000 11		100 40/	<u>, , , , , , , , , , , , , , , , , , , </u>	2001 424 451		
Reference	Site	Date	From	То	Hour average	WS	WD
Number	Site	Date	MST	MST	(µg/m³)	km/hr	degrees
406754	Milner	2022-11-13	10:00	11:00	98.4	10.5	251
406763	Milner	2022-11-14	24:00	01:00	90.6	4.0	274
406763	Milner	2022-11-14	02:00	03:00	120.4	3.1	277
406763	Milner	2022-11-14	04:00	05:00	128.0	5.7	259
406763	Milner	2022-11-14	05:00	06:00	142.3	5.9	265
406763	Milner	2022-11-14	11:00	12:00	100.5	3.1	260
406496	Smoky Heights	2022-11-04	24:00	01:00	356.4	2.0	43
406834	Smoky Heights	2022-11-16	21:00	22:00	115.5	7.0	257

The follow is a summary of the concentrations in exceedance of AAAQG and AAAQO: 1-hr readings above the $PM_{2.5}$ AAAQG (80 µg/m³) was recorded as:

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

Reference Number	Site	Date	Day average (μg/m³)	WS km/hr	WD degrees
406668	Henry Pirker	2022-11-10	33.4	2.3	274
406763	Milner	2022-11-14	63.8	4.8	250

Operational times less than 90 percent:

All stations reported above 90% operational times, at Poplar station the CH₄ and NMHC was added back into operation, valid data was below 75% for the month.

Air Incidents

None were reported

Deviations from Authorized Monitoring Methods

None were reported

Passive Monitoring

- 49 Stations throughout the PAZA zone
 - o Passive sample analyses were performed by Bureau Veritas Laboratories
- There were 17 duplicates sampled in the month of November.
 - One of the SO₂ duplicates were noted as missing from the laboratory results
- Seven SO₂ duplicates located at Wanham, Poplar, Gordondale, Duvernay 2, Sunset House, Jayar5 Camp, Pipeline; RPD ranging from 1% to 64% (one fail at Gordondale: 0.3, 0.7)
 - One of the SO₂ duplicates at Poplar was noted as missing from the laboratory results
- One O₃ duplicate located at Crooked Creek; RPD 18% (no fails)
- Six NO₂ duplicates at Steeprock Creek, McLennan, Boone Creek, Eaglesham, Jayar4 7-8 or 8-8 Pad, Ambient Trailer; RPD ranging from 0% to 86% (one fail at McLennan: 3.4, 1.3)
- Three H₂S duplicates, Guy, Duvernay 2, Jayar3 Bone Yard; RPD 0% to 24% (no fails)
- 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
- There was one duplicate sampled collected for each in the month of November

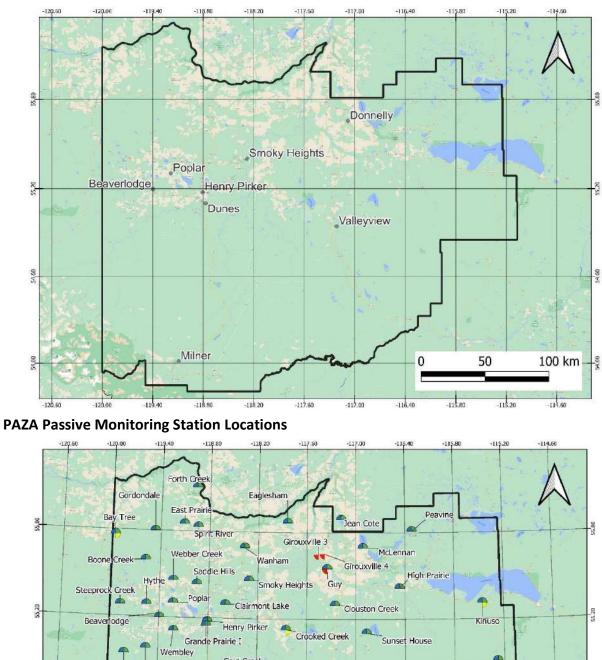
 RPD ranged from 40% to 45%
- Total dustfall ranged from 20.0 to 125.6 mg/100cm²/30day
- There were no readings above the AAAQG during the month

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.

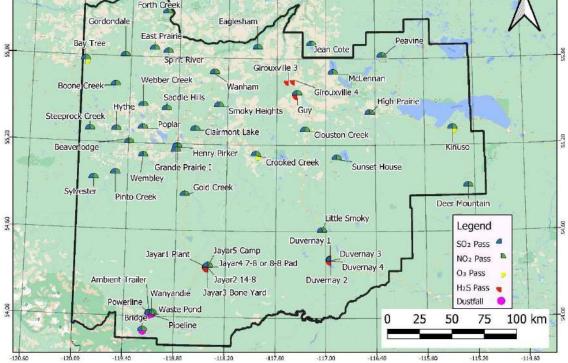
Mandeep Dhaliwal, B.Sc., P.Chem. Program Manager

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PAZA Continuous Monitoring Station Locations



1 November 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

	November					1-ho	our		24-hour		1	Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.6	0.0	95.1%	100.0%	20.0	-	Nov-09 15:00	4.6	•	Nov-09	-			-	Nov 02, 2022
NO ₂ (ppb)	3.8	0.2	95.1%	100.0%	30.7	159	Nov-09 20:00	13.9		Nov-09	0	-	-	-	Nov 02, 2022
NO _x (ppb)	4.4	0.2	95.1%	100.0%	40.7		Nov-09 20:00	18.5		Nov-09			100	-	Nov 02, 2022
O ₃ (ppb)	29.7	0.7	95.3%	100.0%	47.0	76	Nov-19 23:00	43.1	•	Nov-20	0	-		-	Nov 02, 2022
PM2.3 (µg/m ³)	3.8	0.0	97.1%	97.6%	32.3	80	Nov-10 03:00	16.5	29	Nov-10	0	-	0	-	Nov 01, 2022
SO ₂ (ppb)	0.7	0.0	95.3%	100.0%	9.0	172	Nov-14 17:00	2.5	48	Nov-10	0	-	0	0	Nov 01, 2022
	Average	Minimum	Valid	Operational	Maximum		T				19			0 – C	
Temp (°C)	-6.6	-26.0	100.0%	100.0%	7.3		Note: Valid ho	ours must	be greater tha	n 75%					
RH (%)	70.1	19.9	100.0%	100.0%	99.9		Operati	onal hour	s must be great	er than 90%					
WS (km/hr)	9.7	0.2	100.0%	100.0%	34.7						50. 11				
WD (deg)	319	1.5	100.0%	100.0%	359.8		Average Wind Direct	ion	319	NW	1				

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No Operational issues noted
03	Thermo	49iQ	No Operational issues noted
PM2.5	Sharp	5030	Periods of negative flatline data removed, two periods Nov 14 (9hrs) and Nov 30 (8hrs)
50 ₂	Thermo	43i-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.2 Dunes Air Monitoring Station

	November					1-ho	ur		24-hour			Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Мах	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m ²)	4.9	0.0	99.9%	100.0%	34.6	80	Nov-03 14:00	21.1	29	Nov-10	0	-	0	-	Nov-17-2022
SO ₂ (ppb)	0.6	0.0	95.3%	100.0%	11.9	172	Nov-18 04:00	1.8	48	Nov-02	0	-	0	0	Nov-17-2022
TRS (ppb)	0.3	0.0	95.1%	100.0%	2.8	•	Nov-20 23:00	1.0		Nov-20					Nov-17-2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	-7.6	-27.6	100.0%	100.0%	8.1		Note: Valid ho	urs must	be greater thar	75%					
RH (%)	71.8	29.0	100.0%	100.0%	96.4		Operati	onal hour	s must be great	er than 90%					
WS (km/hr)	4.0	0.0	100.0%	100.0%	16.4										
WD (deg)	321	0.4	100.0%	100.0%	359.4		Average Wind Direct	ion	321	NW					
Update Sum	nary:														
Parameter		Mak	e	Mod	el	Equipmer	nt summary								
PM _{2.5}		Thern	no	TEOM	AB	No Operati	ional issues noted								
SO ₂		TECO	C	43	1	No Operati	ional issues noted								
TRS		TECO	3	430	-	No Operati	ional issues noted								

Gil/RMYoung MetPak/RMY86004 No Operational issues noted

Met Equip

1.3 **Grande Prairie - Henry Pirker Air Monitoring Station**

	November					1-ho	ur	8	-hour / 24-h	our		Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	lhr	8hr	24hr	30d	Date
NO (ppb)	13.5	0.0	94.7%	100.0%	170.9	-	Nov-18 20:00	58.9	-	Nov-10	-	-	-	-	Nov 01, 2022
NO ₂ (ppb)	15.9	1.2	94.7%	100.0%	58.7	159	Nov-18 20:00	34.4	-	Nov-18	0	-	-	-	Nov 01, 2022
NO _x (ppb)	29.5	1.3	94.7%	100.0%	230.0	-	Nov-18 20:00	91.3	-	Nov-10	-	-	-	-	Nov 01, 2022
O ₃ (ppb)	18.3	0.4	95.4%	100.0%	43.3	76	Nov-20 01:00	30.0	-	Nov-28	0	-	-	-	Nov 01, 2022
РМ _{2.3} (µg/m ³)	8.4	0.3	99.9%	100.0%	47.7	80	Nov-10 15:00	33.4	29	Nov-10	0	-	1	-	Nov 03, 2022
SO ₂ (ppb)	0.5	0.0	95.1%	100.0%	9.3	172	Nov-10 14:00	2.5	48	Nov-10	0	-	0	٥	Nov 01, 2022
H ₂ S (ppb)	0.4	0.0	95.3%	100.0%	1.8	10	Nov-18 20:00	1.0	3	Nov-10	0	-	0	-	Nov 03, 2022
CH ₄ (ppm)	2.2	2.0	92.5%	97.1%	3.4	-	Nov-11 19:00	2.8	-	Nov-11	-	-	-	-	Nov 02, 2022
THC (ppm)	2.3	2.0	92.5%	97.1%	3.9	-	Nov-11 19:00	3.1		Nov-11	-	-	-	-	Nov 02, 2022
NMHC (ppm)	0.1	0.0	92.5%	97.1%	0.8	-	Nov-11 06:00	0.3	-	Nov-11	-	-	-	-	Nov 02, 2022
CO (ppm)	0.3	0.1	95.3%	100.0%	1.9	13	Nov-18 20:00	0.5	5	Nov-18	0	0	-	-	Nov 02, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	-7.2	-26.5	100.0%	100.0%	9.0		Note: Valid he	ours must	be greater tha	n 75%					
RH (%)	67.3	35.0	100.0%	100.0%	87.3		Operati	ional hour	s must be grea	ter than 90%					
SR (W/m²)	25.6	0.0	100.0%	100.0%	247.2										
WS (km/hr)	6.5	0.2	100.0%	100.0%	26.7										
WD (deg)	289	0.5	100.0%	100.0%	358.7		Average Wind Direct	ion	289	WNW]				
Update Sum	mary:														
Parameter		Make		Model	Equipme	nt s <mark>um</mark> ma	iry								
NO/NO ₂ /NO	(Thermo		42IQ	No Operat	ional issue	snoted								
03		TECO		491	No Operat	ional issue	s noted								
PM _{2.5}		API		T640	No Operat	ional issue	s noted; one reading a	above the	AAAQO, Nov 1	0	1.0000000000 1.000000000				
SO ₂		TEI		43I-TLE	No Operat	ional issue:	s noted								
H₂S		TEI		4501	No Operat	Ional Issue	s noted								

PAZA - November 2022 Henry Pirker Station Report

Smoky Heights Air Monitoring Station 1.4

551

481-TLE

50.5

No Operational issues noted

No Operational issues noted

TEI

TEI

MetOne

THC/CH4/NMHC

CO

Met Equip

	November					1-ho	ur		24-hour			Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM2.5 (µg/m²)	6.0	0.0	99.7%	100.0%	356.4	80	Nov-04 17:00	21.3	29	Nov-10	2	-	0	-	Nov 16, 2022
SO ₂ (ppb)	0.6	0.0	95.3%	100.0%	7.8	172	Nov-10 00:00	1.9	48	Nov-13	0	-	0	0	Nov 16, 2022
TRS (ppb)	0.2	0.0	95.1%	100.0%	4.1		Nov-10 02:00	0.9		Nov-10			-	-	Nov 16, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	-7.9	-27.4	100.0%	100.0%	8.2	1	Note: Valid ho	urs must	be greater than	1 75%]				
WS (km/hr)	12.6	0.9	100.0%	100.0%	31.6		Operati	onal hour	s must be great	ter than 90%					
WD (deg)	267	3.7	100.0%	100.0%	358.6		Average Wind Direct	ion	267	WNW	1				

Instrument stuck in "done mode" following calibration, data removed until manual span (21 hrs)

Update Summary:			
Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	There were two readings above the AAAQG; reading on Nov 4 was beyond top scale of instrument
SO ₂	TECO	43i	No Operational issues noted
TRS	TEI	431 APSAA	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.5 Valleyview Air Monitoring Station

	November					1-ho	ur		24-hour			Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Мах	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.2	0.0	95.0%	99.7%	2.1	172	Nov-19 17:00	0.7	48	Nov-30	0	-	0	0	Nov 11, 2022
H ₂ S (ppb)	0.1	0.0	94.9%	99.7%	0.5	10	Nov-08 10:00	0.3	3	Nov-08	0	-	0	-	Nov 08, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (*C)	-7.6	-28.2	100.0%	100.0%	12.1		Note: Valid he	ours must	be greater than	1 75%	1				
RH (%)	77.4	28.2	100.0%	100.0%	100.2		Operati	onal hours	must be great	ter than 90%					
WS (km/hr)	4.4	0.1	100.0%	100.0%	15.9										
WD (deg)	304	1.7	100.0%	100.0%	359.5		Average Wind Direct	ion	304	NW					
Update Sum	imary:														
Parameter		Mak	e	Mod	lel	Equipmen	nt summary								
SO ₂		TEI 43i-APSCB Started calibration No						librator i	ssues, came	back Nov 1	1 for c	alibrat	tion (2)	hrs mai	intenance)
H₂S		TEI		450i-Al	РНАА	Replaced	perm tube Nov 8,	ran check	on Nov 11 (2hrs mainte	enance	e)			
Met Equip		RMYou	(0)	RMY86											

PAZA - November 2022 Valleyview Station Report

1.6 Donnelly Air Monitoring Station

	November					1-ho	our		24-hour		1	Excee	dance		Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.3	0.0	95.1%	99.9%	3.0	172	Nov-09 06:00	0.7	48	Nov-19	0	-	0	0	Nov 17, 2022
H ₂ S (ppb)	0.0	0.0	95.0%	99.9%	0.4	10	Nov-15 23:00	0.1	3	Nov-10	0	-	0	-	Nov 17, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	-6.7	-25.1	99.9%	99.9%	9.0		Note: Valid ho	ours must	be greater than	n 75%					
WS (km/hr)	12.2	0.0	99.9%	99.9%	31.3		Operati	onal hour	s must be great	er than 90%					
WD (deg)	234	0.3	99.9%	99.9%	359.7		Average Wind Direct	ion	234	SW	1				

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Update Summary:									
Parameter	Make	Model	Equipment summary						
SO ₂	Teco	431	Nov 21 communication failure (1hr)						
H2S	Thermo	45C	Nov 21 communication failure (1hr)						
Met Equip	RMYoung	5103	Nov 21 communication failure (1hr)						

1.7 Poplar Air Monitoring Station

PAZA - November 2022 Poplar Station Report

	November				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
NO (ppb)	1.6	0.0	95.1%	100.0%	41.0		Nov-10 21:00	14.0		Nov-10	-	-	-	-	Nov 08, 2022
NO ₂ (ppb)	5.1	0.0	95.1%	100.0%	33.4	159	Nov-10 21:00	18.5	-	Nov-10	0	-	-	-	Nov 08, 2022
NO _x (ppb)	6.7	0.0	95.1%	100.0%	74.6		Nov-10 21:00	32.8	•	Nov-10	-	-		-	Nov 08, 2022
O ₃ (ppb)	26.6	0.3	95.3%	100.0%	46.6	76	Nov-19 23:00	40.9		Nov-20	0	-	-	-	Nov 08, 2022
PM2.5 (µg/m ³)	3.2	0.0	96.8%	97.5%	29.8	80	Nov-10 16:00	12.1	29	Nov-10	0	-	0	-	Nov 15, 2022
SO ₂ (ppb)	1.1	0.0	95.3%	100.0%	20.8	172	Nov-28 15:00	3.4	48	Nov-10	0	-	0	0	Nov 08, 2022
TRS (ppb)	0.7	0.1	95.1%	100.0%	11.4	-	Nov-19 13:00	2.0		Nov-09	-	-	-	-	Nov 15, 2022
CH4 (ppm)	installed Nov	v 10		ummeso da											
THC (ppm)	2.2	1.7	90.8%	98.3%	8.9		Nov-10 20:00	2.8		Nov-11	-	-		-	Nov 10, 2022
NMHC (ppm)	installed Nov	v 10													
	Average	Minimum	Valid	Operational	Maximum		2								
Temp (°C)	-8.4	-28.5	100.0%	100.0%	5.9		Note: Valid hours must be greater than 75%								
WS (km/hr)	12.8	0.1	100.0%	100.0%	36.3		Operati	onal hour	must be great	ter than 90%					
WD (deg)	301	1.3	100.0%	100.0%	359.4		Average Wind Direct	ion	301	WNW					

Undate	Summary:	
opunce	Sannary.	

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _X	TEI	42i	No Operational issues noted
0 ₃	TEI	491	No Operational issues noted
PM _{2.5}	Thermo	TEOM AB	Negative drift (17hrs)
SO ₂	TEI	431	No Operational issues noted
TRS	TEI	431	No Operational issues noted
THC	TEI	551	Nov 9 removed 55l, Nov 10 install 55i; THC (20hrs no service, 12hrs maint.); CH4, NMHC = 64% uptime
Met Equip	MetOne	50.5	No Operational issues noted

1.8 Milner Air Monitoring Station

Make

Thermo

TEOM

Model

42i

AB

November				1-hour			24-hour			Exceedance				Calibration	
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Мах	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.9	0.0	94.9%	100.0%	27.7	-	Nov-25 07:00	3.5		Nov-03	-	-	· · ·	-	Nov 09, 2022
NO ₂ (ppb)	3.7	0.0	94.9%	100.0%	25.3	159	Nov-25 08:00	6.7	-	Nov-04	0	-	-	-	Nov 09, 2022
NO _x (ppb)	4.4	0.0	94.9%	100.0%	43.6	1.71	Nov-03 13:00	9.2		Nov-03	200		27	1.72	Nov 09, 2022
PM2.5 (µg/m ³)	7.0	0.0	98.9%	99.6%	142.3	80	Nov-14 06:00	63.8	29	Nov-14	6	-	1	-	Nov 09, 2022
	Average	Minimum	Valid	Operational	Maximum	-	44 - 545 24			_	6				
							Note: Valid ho	ours must	be greater than	n 75%]				
WS (km/hr)	8.7	0.0	100.0%	100.0%	33.8		Operati	onal hours	s must be great	ter than 90%					
WD (deg)	264	7.2	100.0%	100.0%	356.1		Average Wind Direct	ion	264	w					

Equipment summary

No Operational issues noted

PAZA - November 2022 Milner Station Report

Parameter NO/NO₂/NO_x

PM_{2.5}

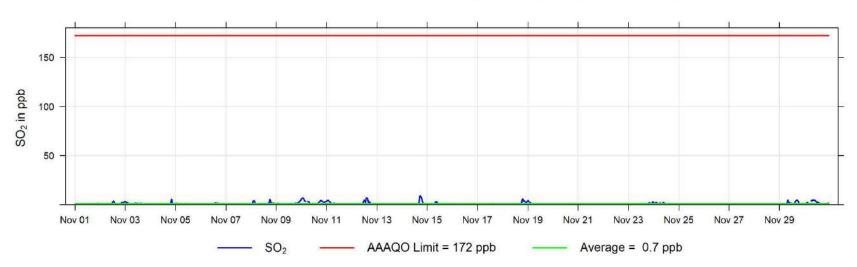
Met Equip

MetOne 50.5 No Operational issues noted

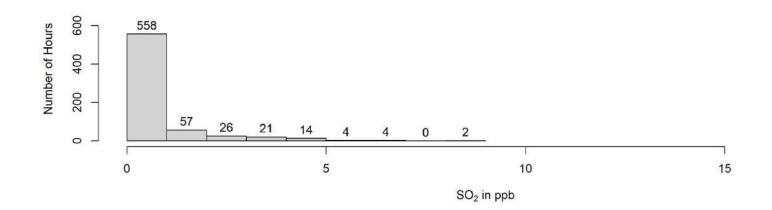
Excessive drifting removed (3hrs); 6hrs >AAAQG; Nov 14 >AAAQO

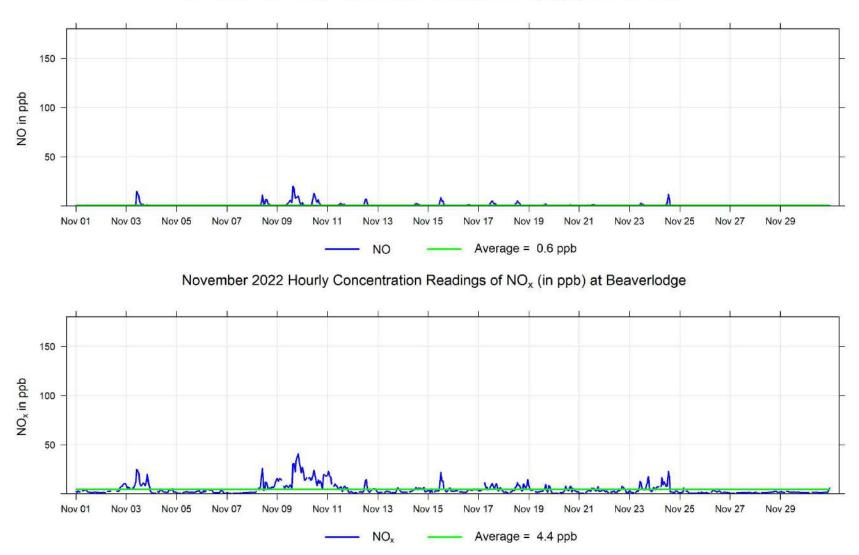
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

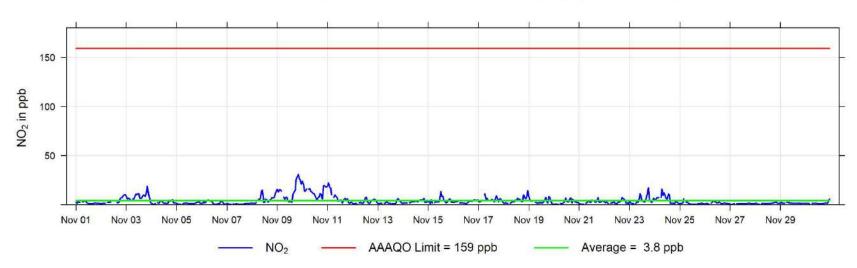


November 2022 Hourly Concentration Readings of SO2 (in ppb) at Beaverlodge

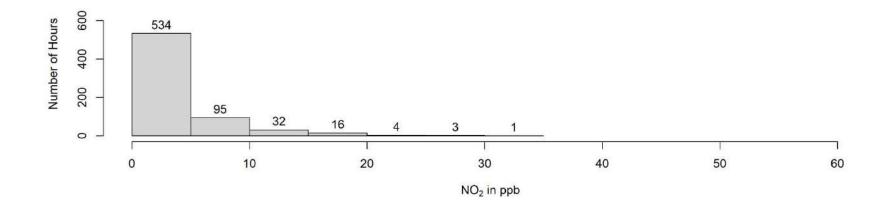




November 2022 Hourly Concentration Readings of NO (in ppb) at Beaverlodge

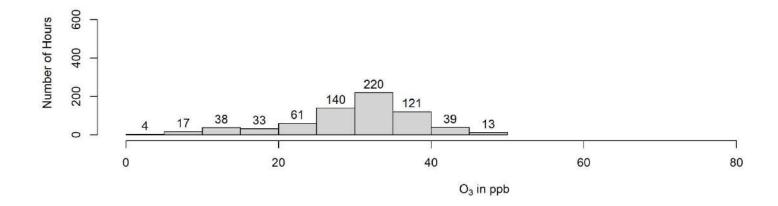


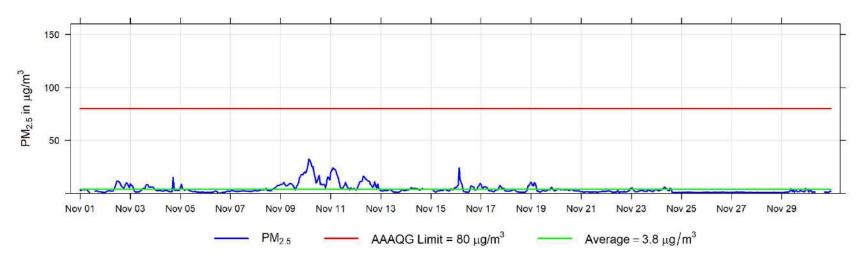


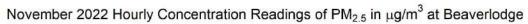


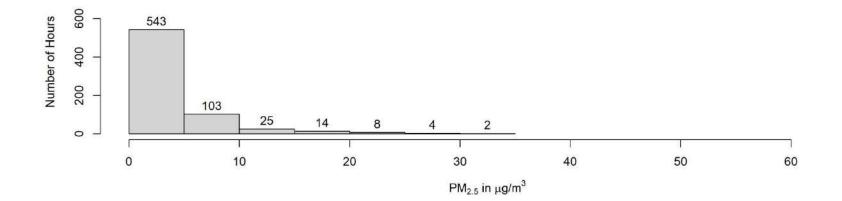


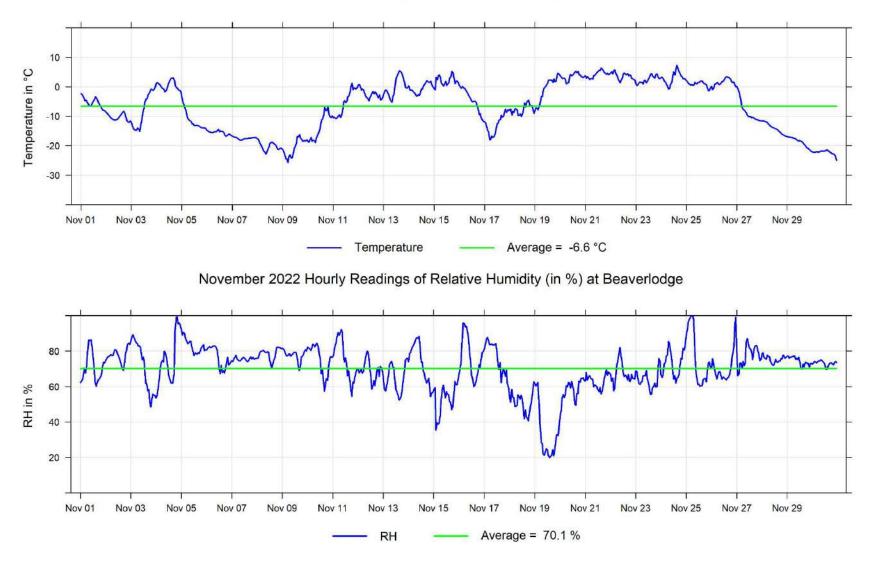




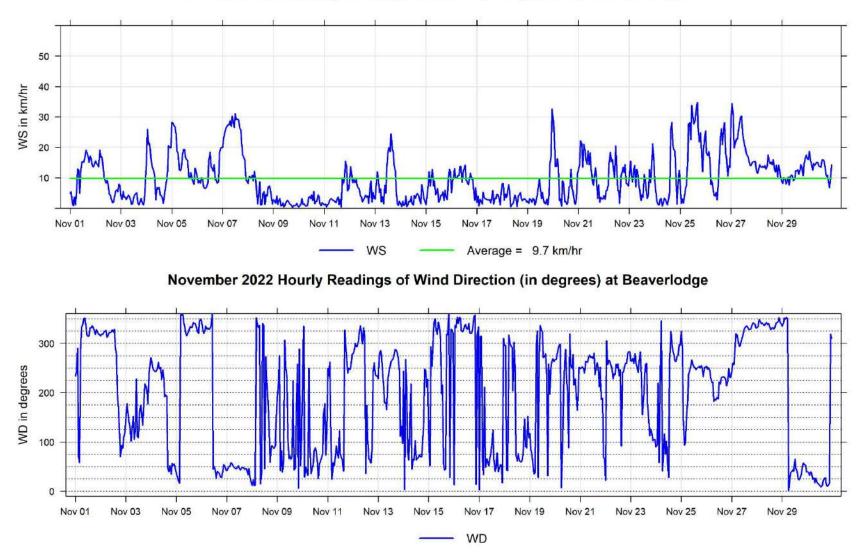




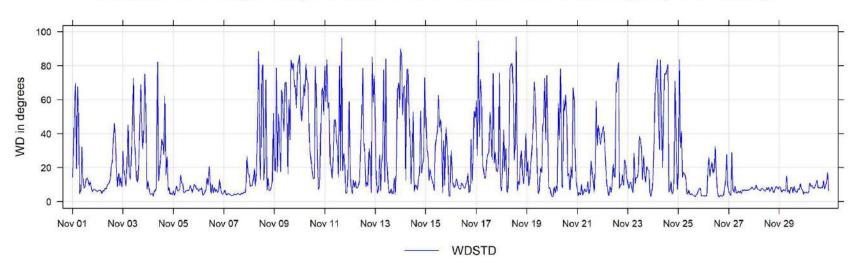




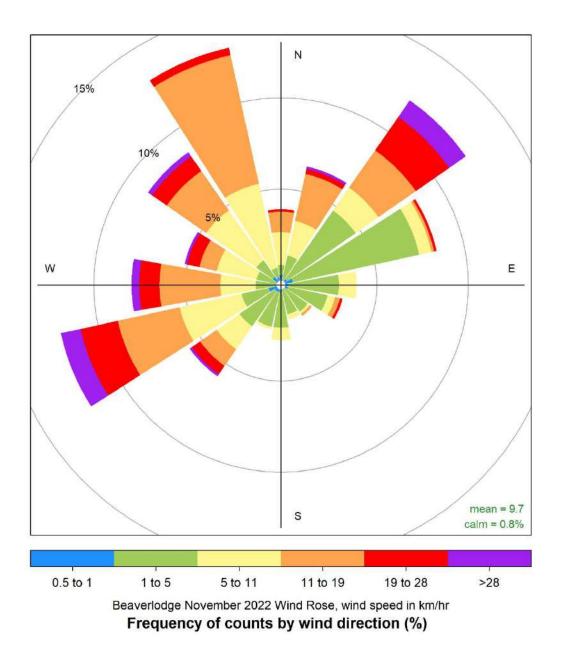
November 2022 Hourly Temperature Readings (in °C) at Beaverlodge



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

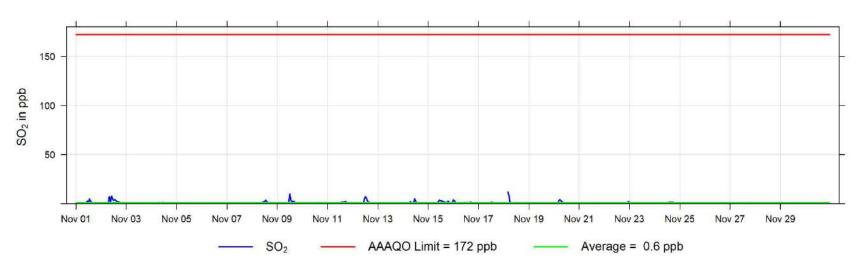


November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Beaverlodge

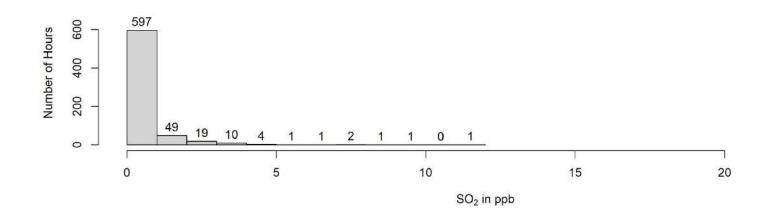


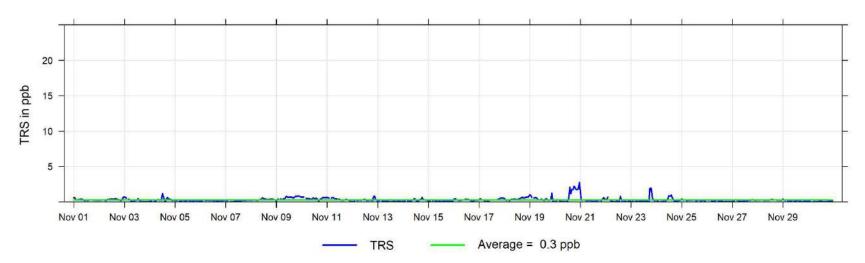
3 Dunes Charts

The following pages include the charts and histograms for Dunes Station

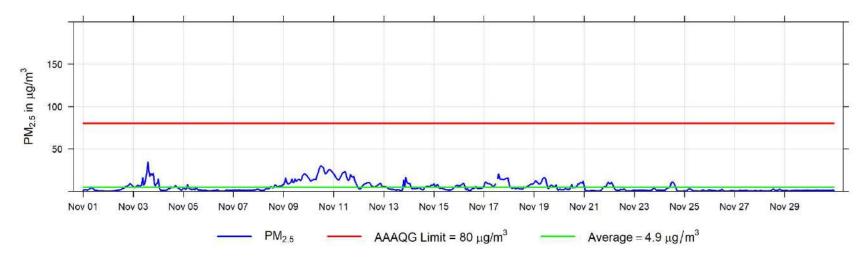




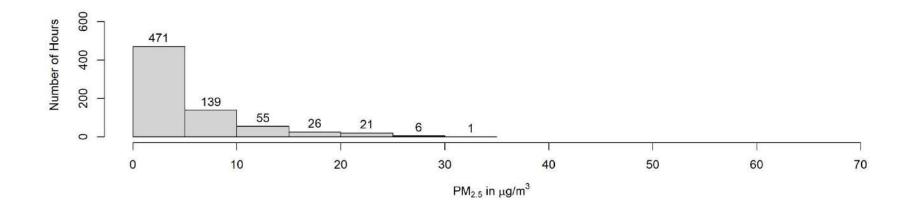


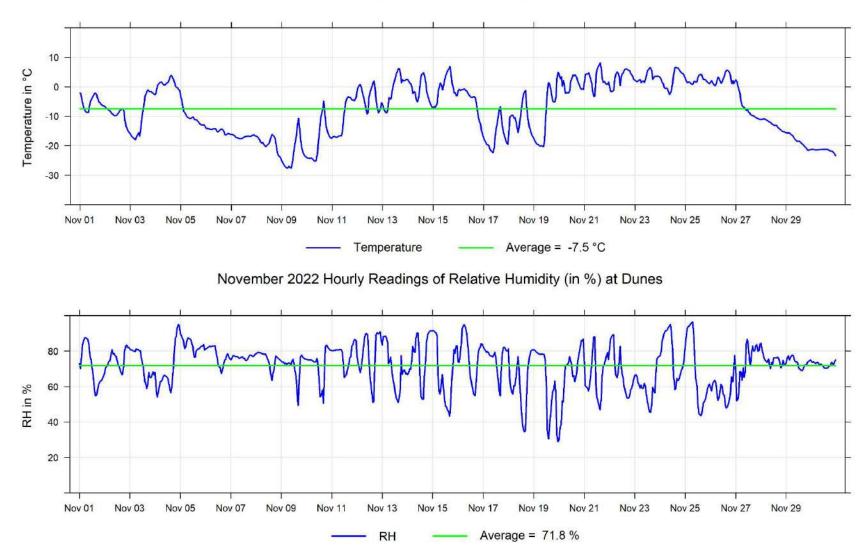


November 2022 Hourly Concentration Readings of TRS (in ppb) at Dunes



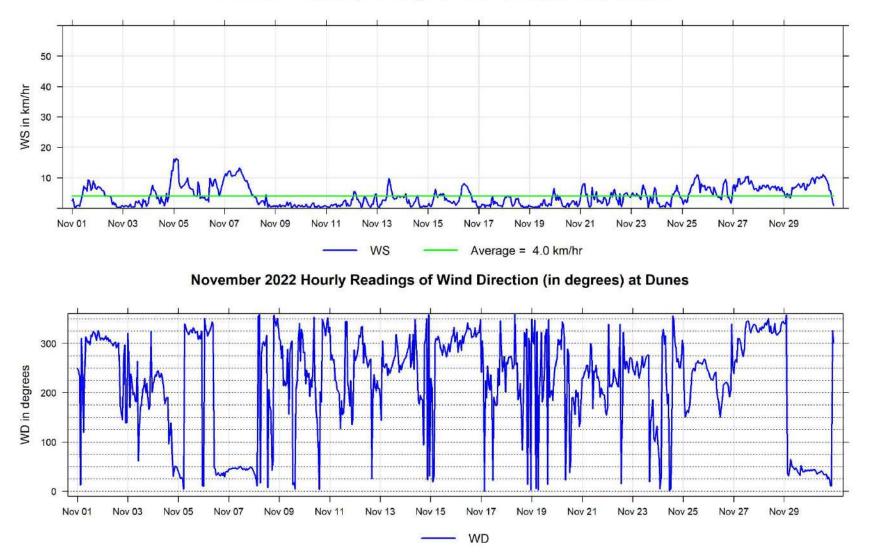
November 2022 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Dunes



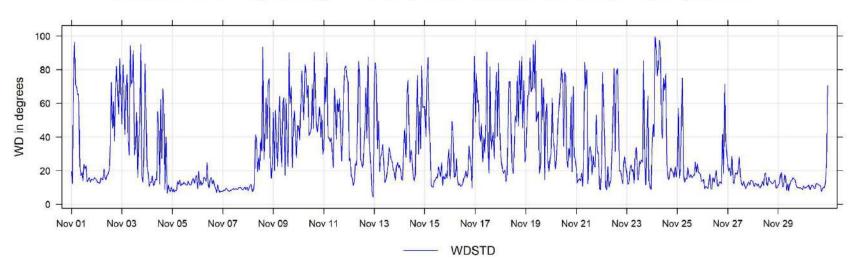


November 2022 Hourly Temperature Readings (in °C) at Dunes

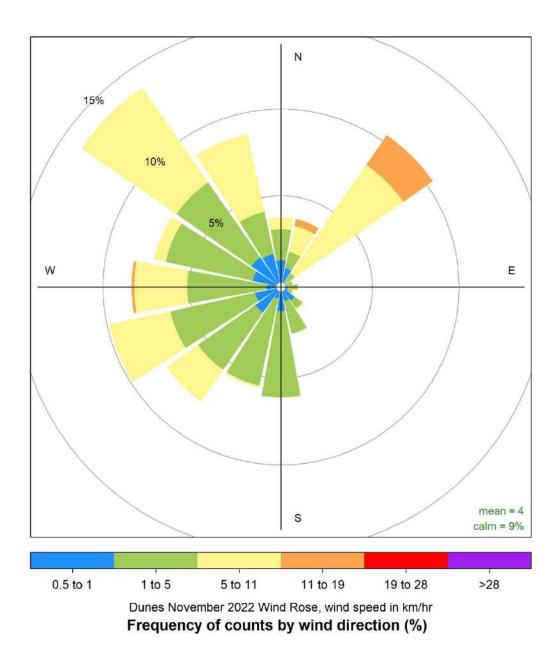
20



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

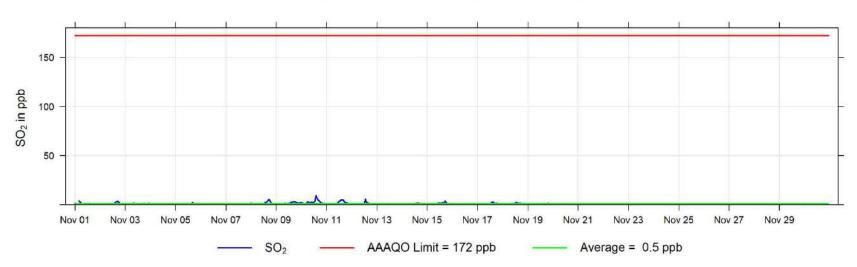


November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Dunes

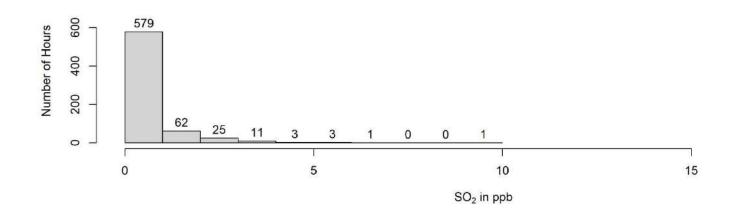


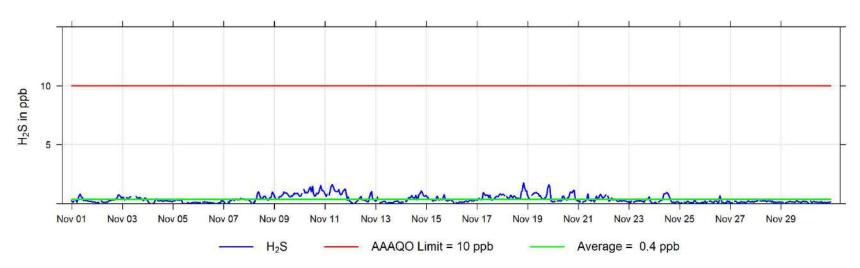
4 Grande Prairie - Henry Pirker Charts

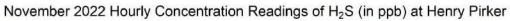
The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie

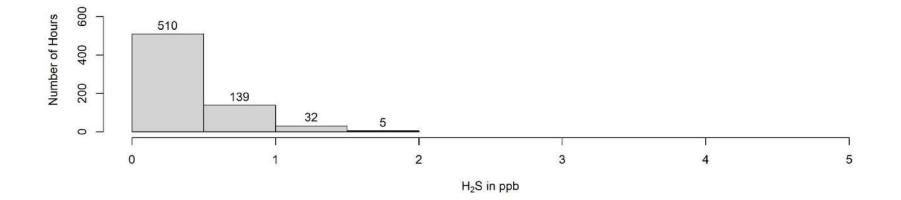


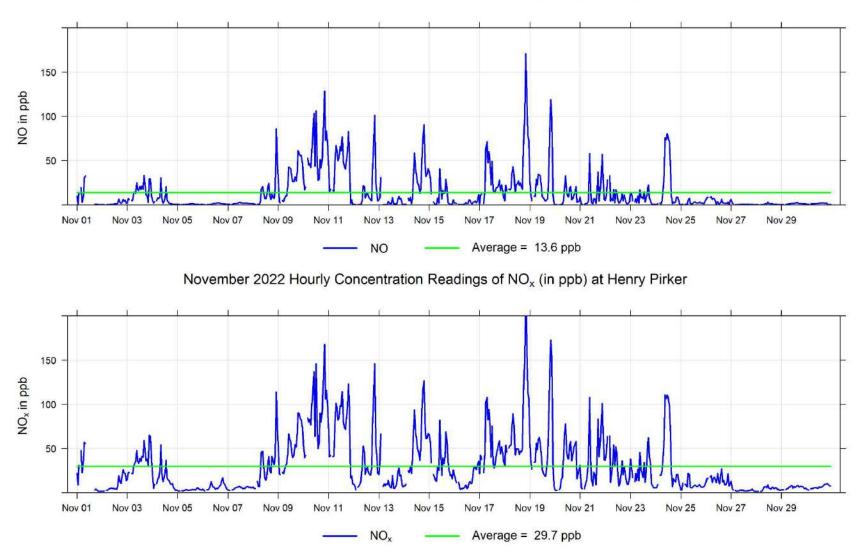
November 2022 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



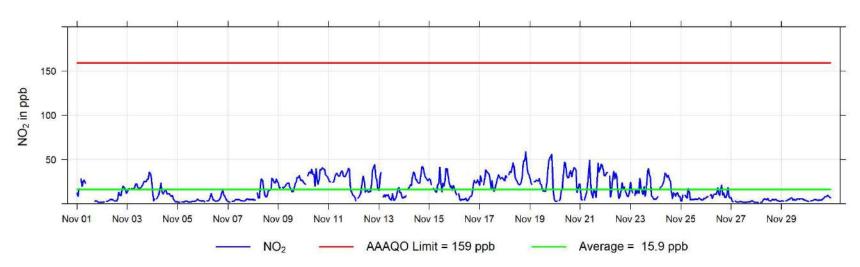


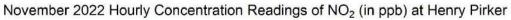


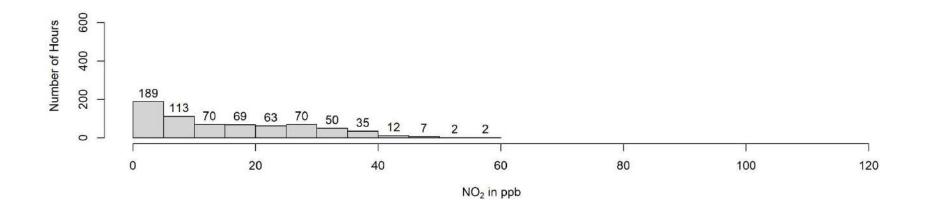


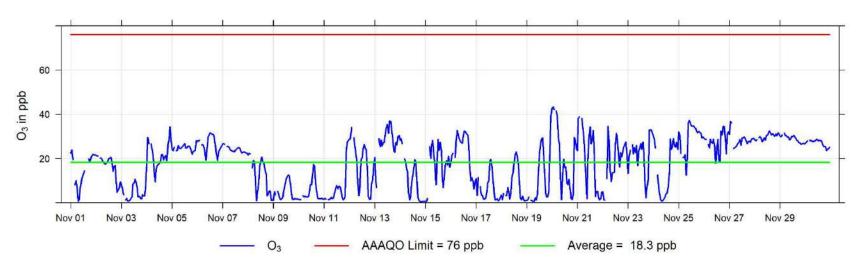


November 2022 Hourly Concentration Readings of NO (in ppb) at Henry Pirker

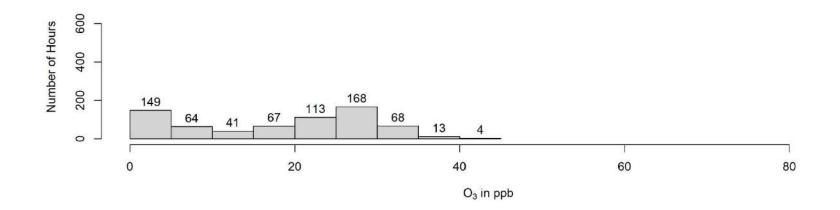


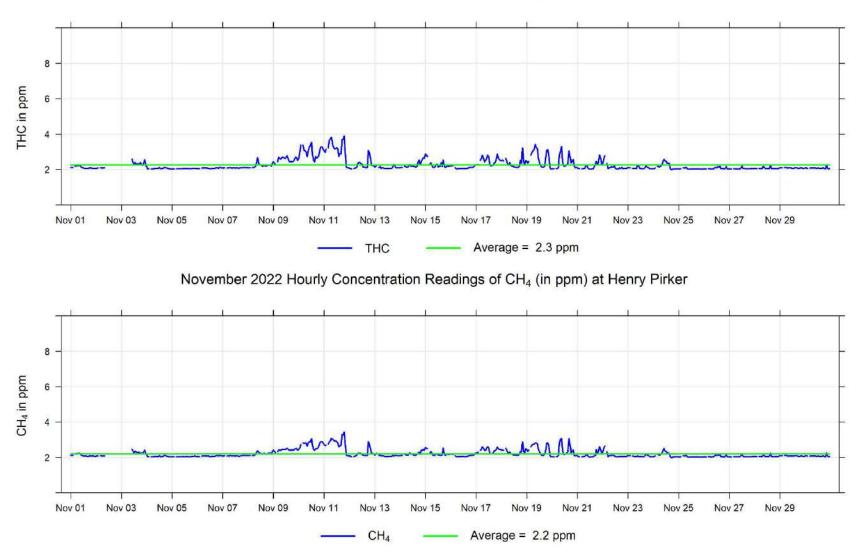






November 2022 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker

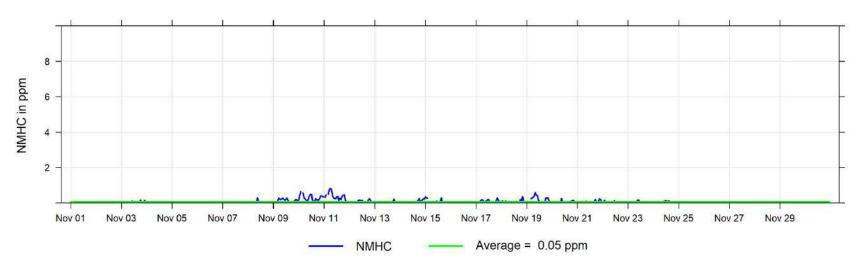




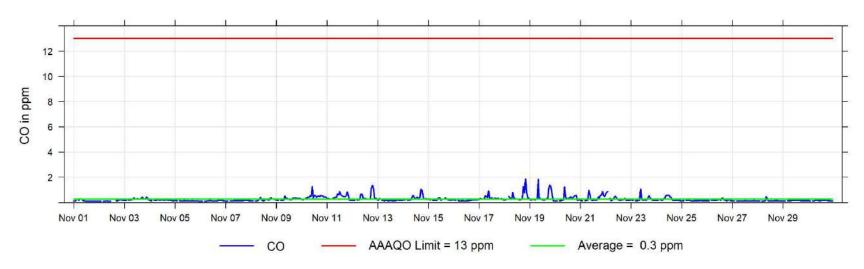
30

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

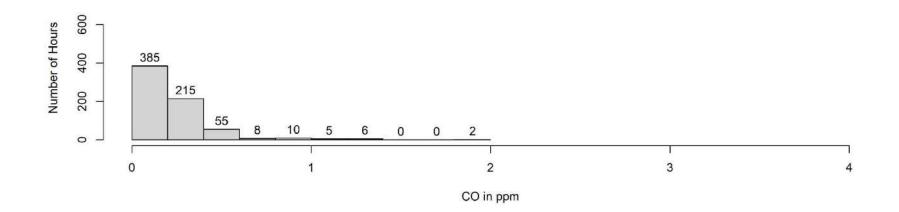
PAZA

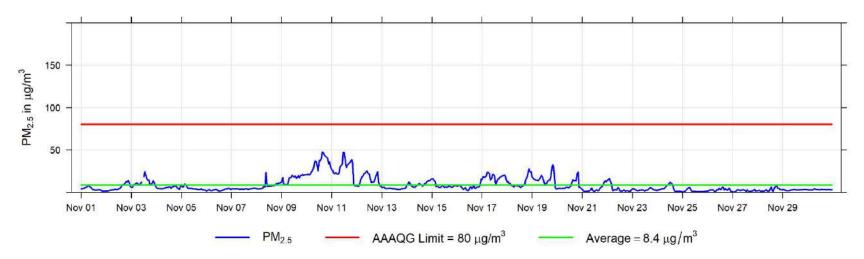


November 2022 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker

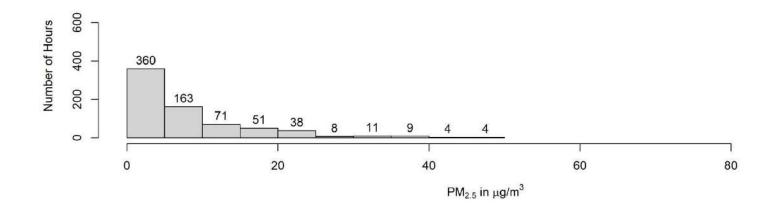


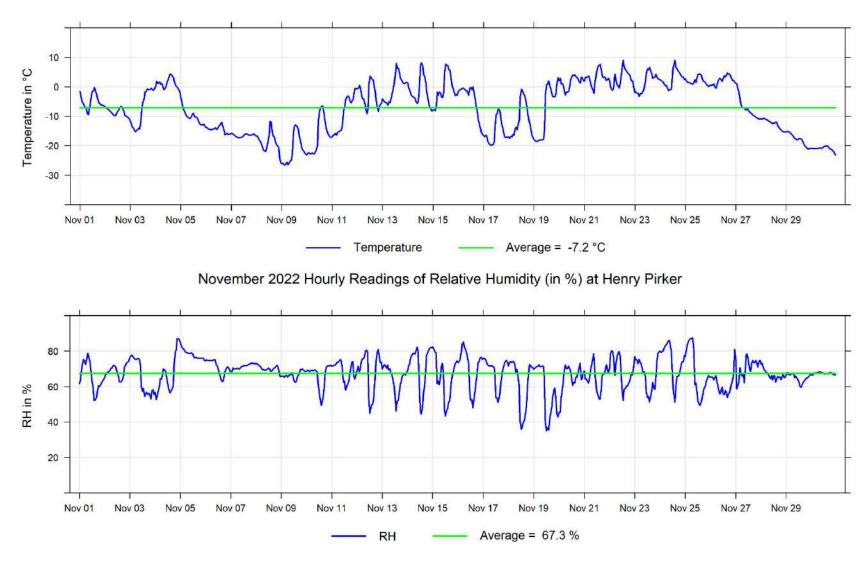
November 2022 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



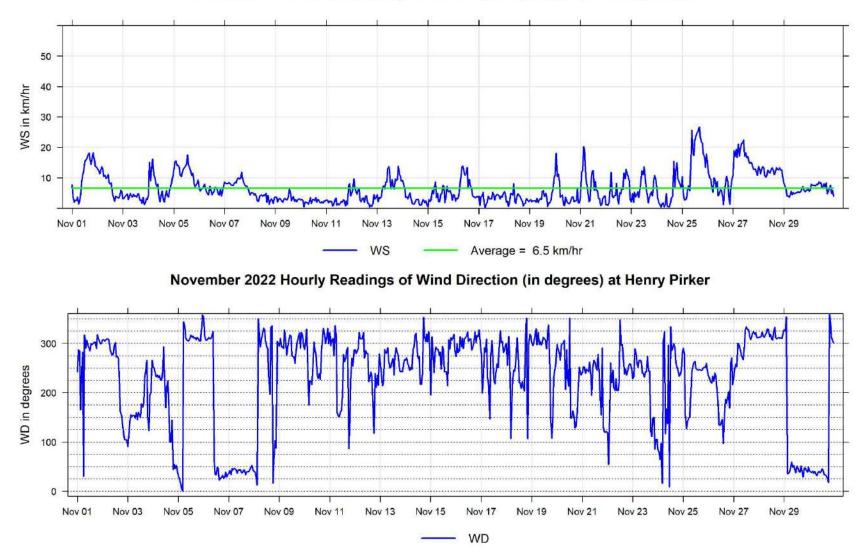


November 2022 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Henry Pirker

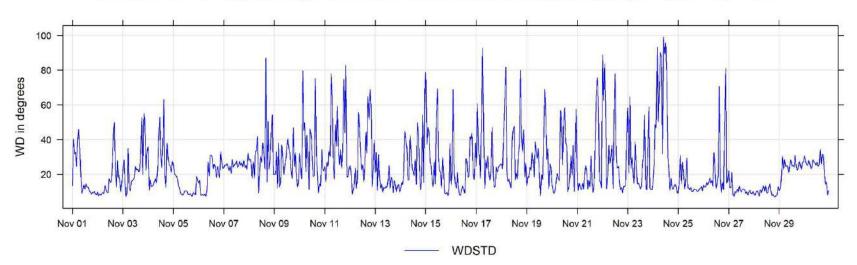




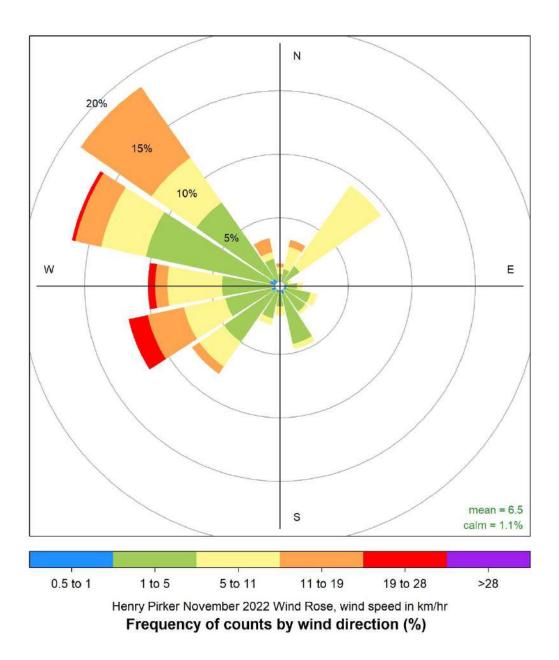
November 2022 Hourly Temperature Readings (in °C) at Henry Pirker



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

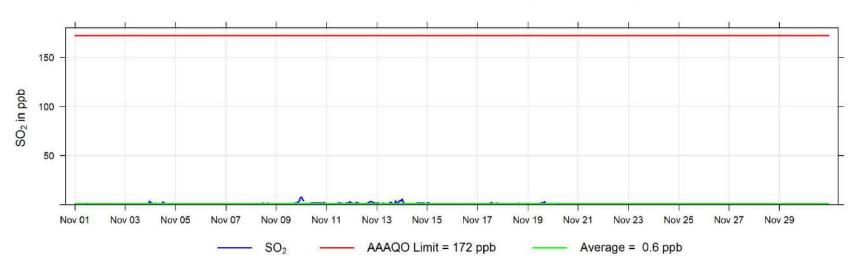


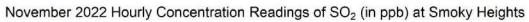
November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Henry Pirker

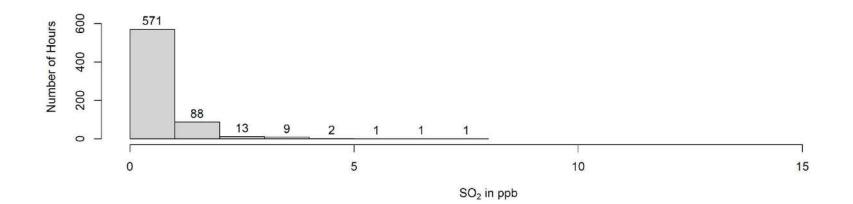


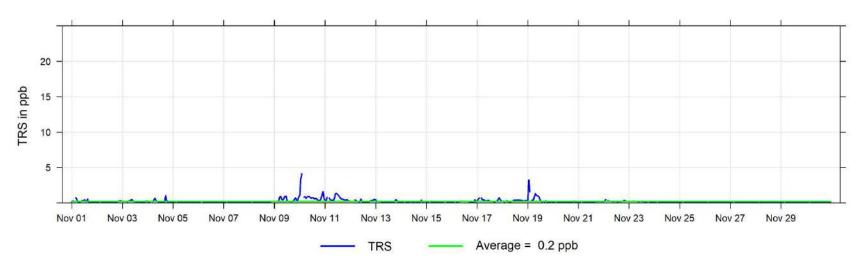
5 Smoky Heights Charts

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

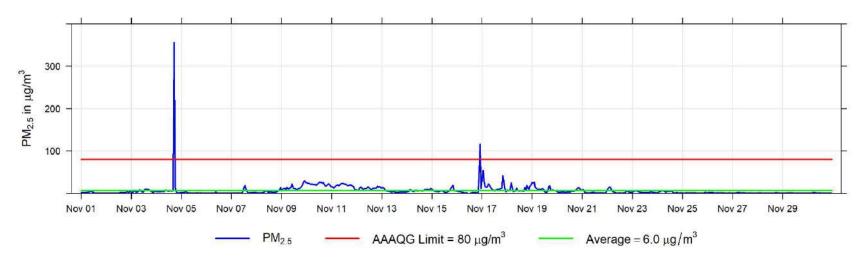




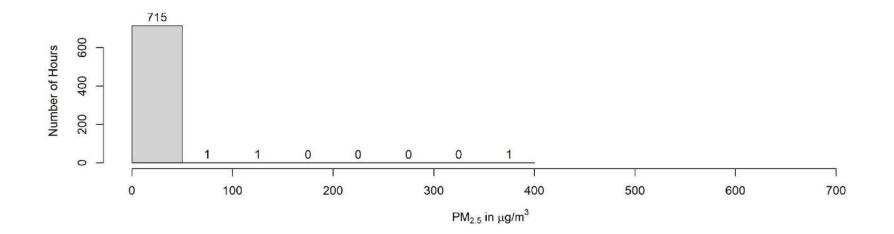


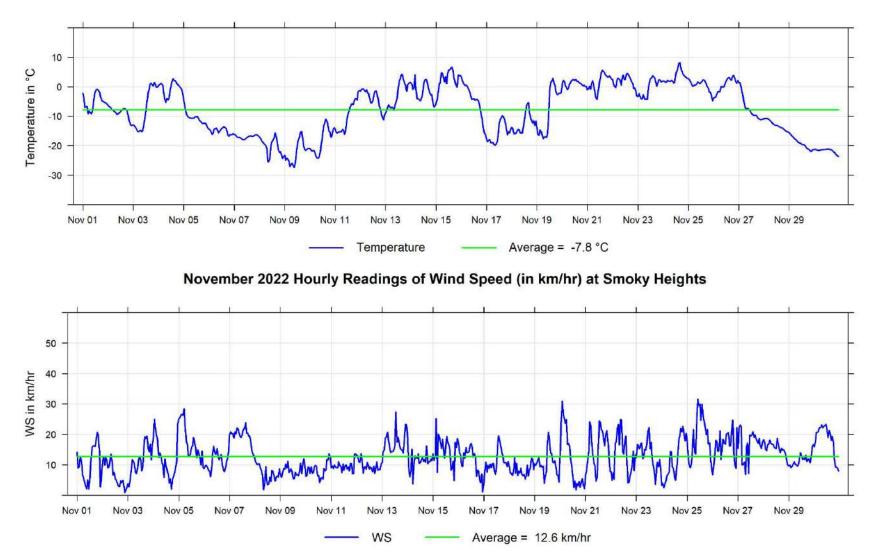


November 2022 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights

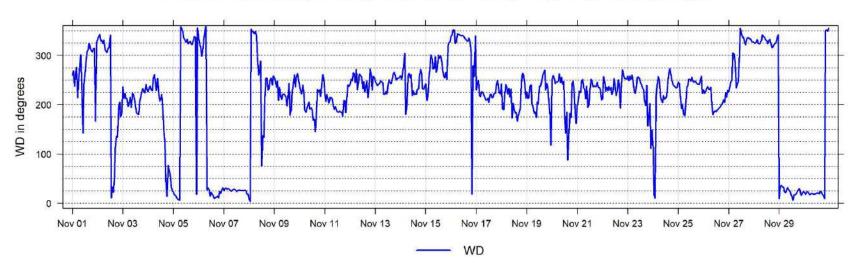


November 2022 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Smoky Heights



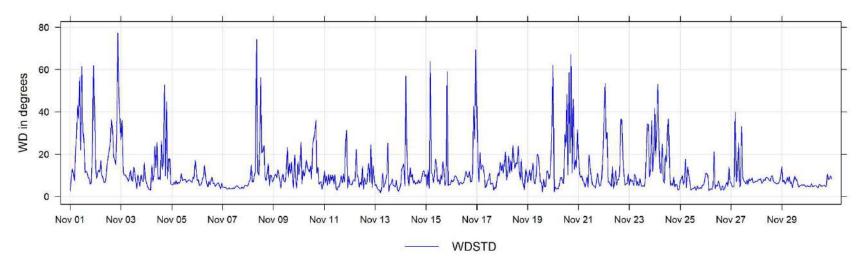


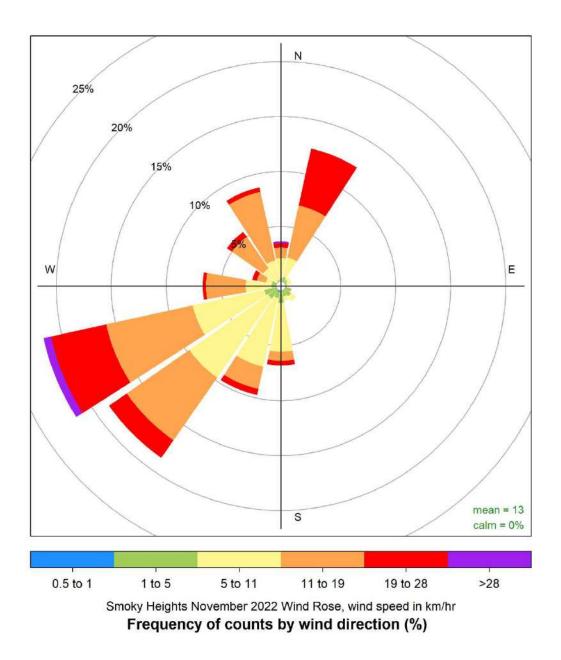
November 2022 Hourly Temperature Readings (in °C) at Smoky Heights



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

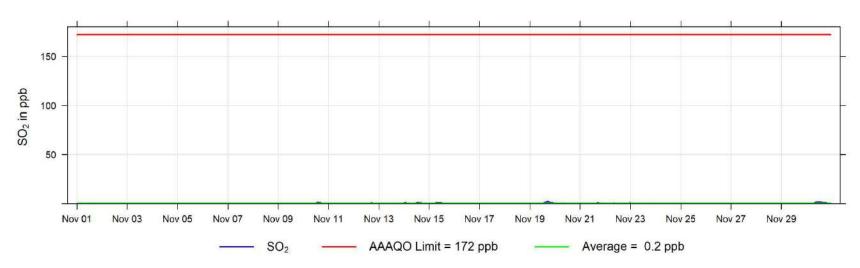
November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Smoky Heights



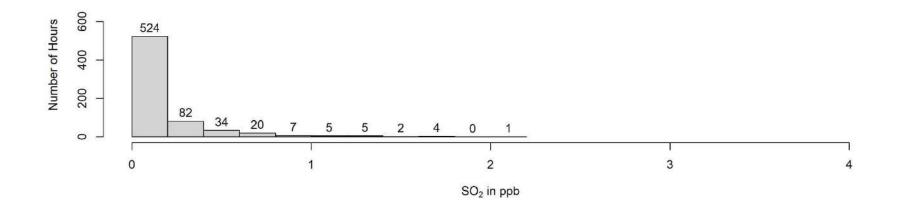


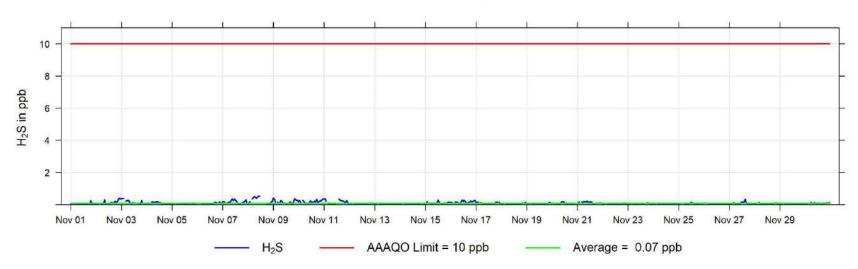
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

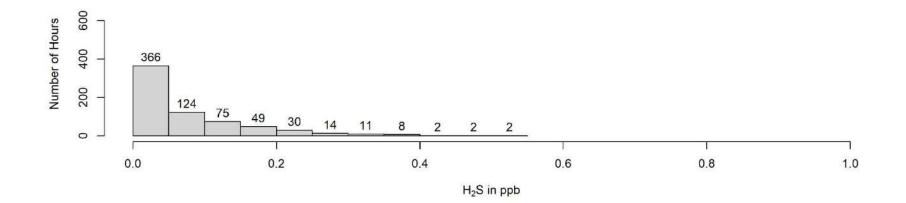


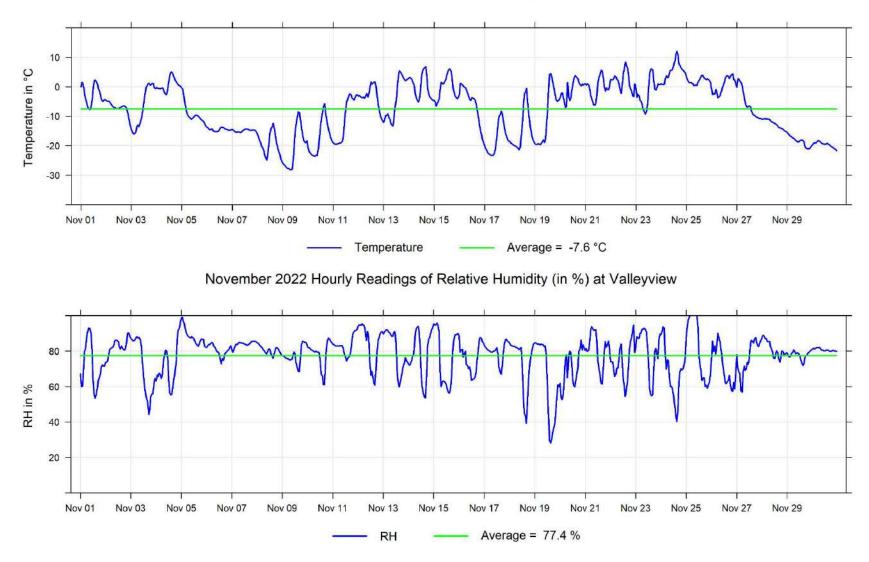






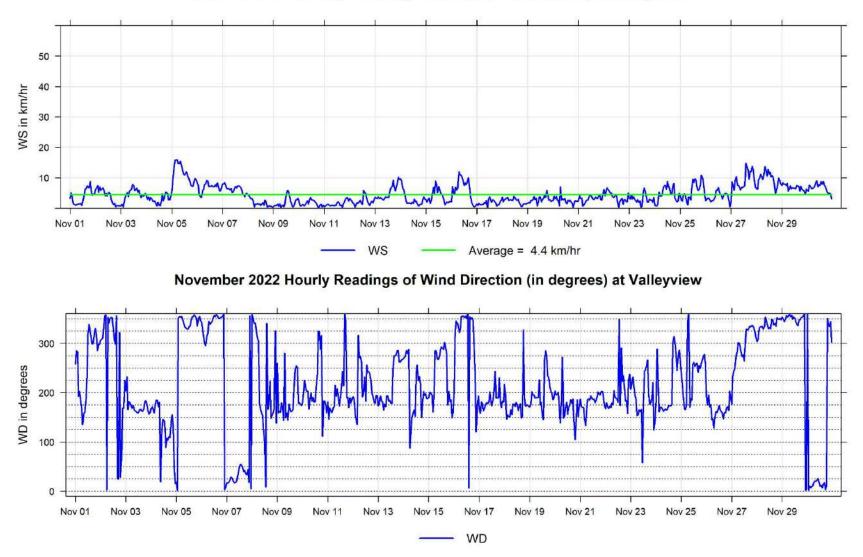
November 2022 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



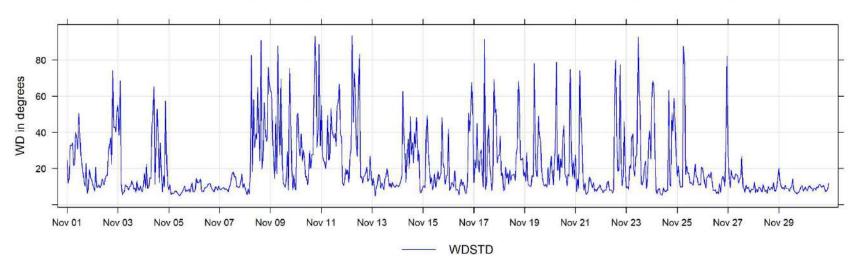


November 2022 Hourly Temperature Readings (in °C) at Valleyview

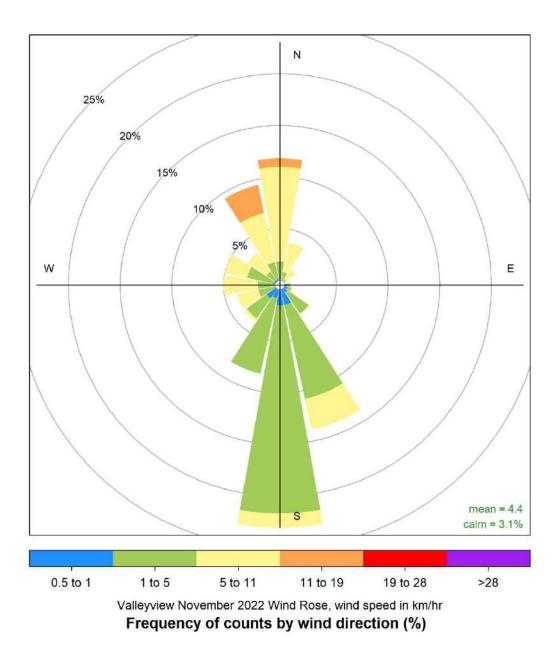
48



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



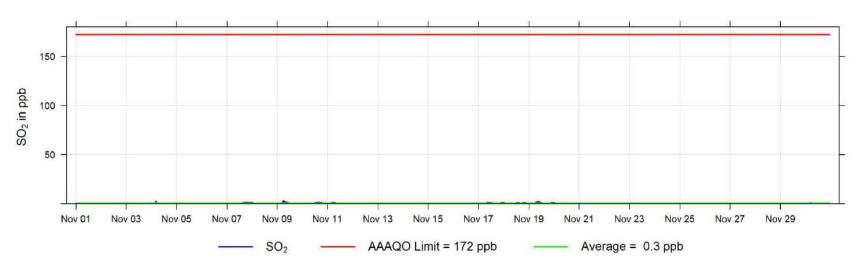
November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Valleyview

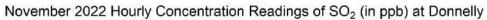


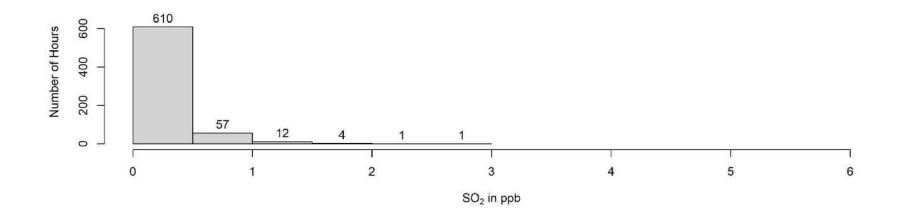
7 Donnelly Charts

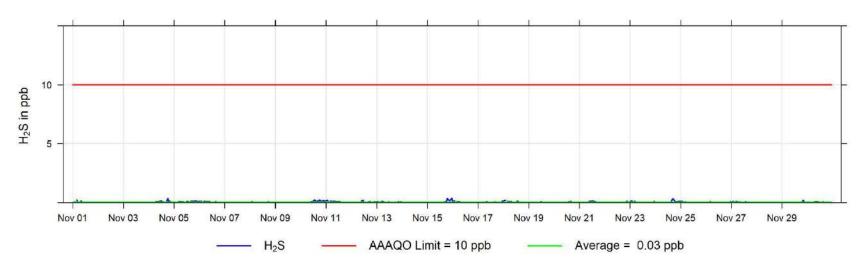
The following pages include the charts and histograms for Donnelly Station

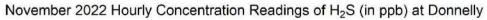
52

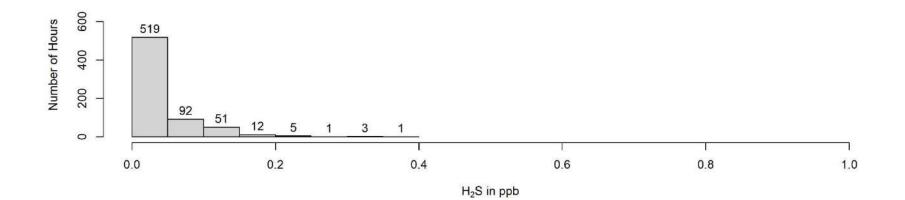


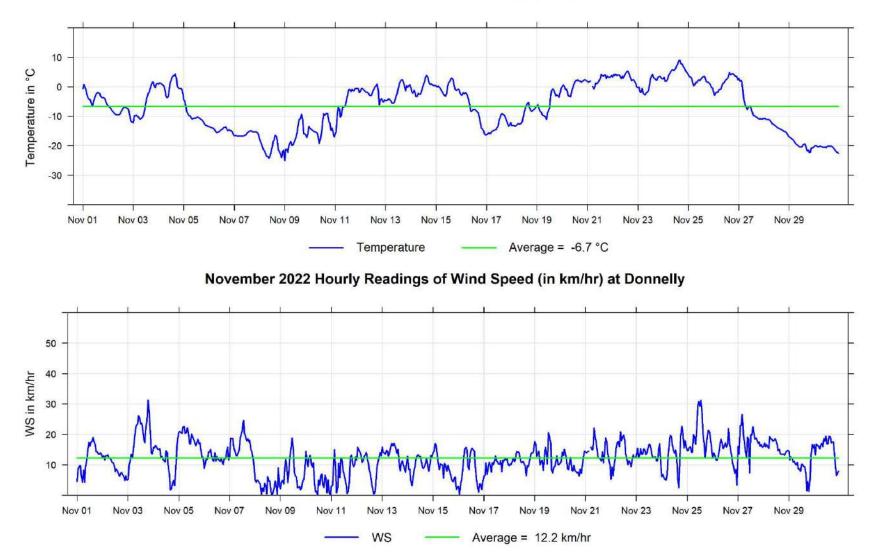






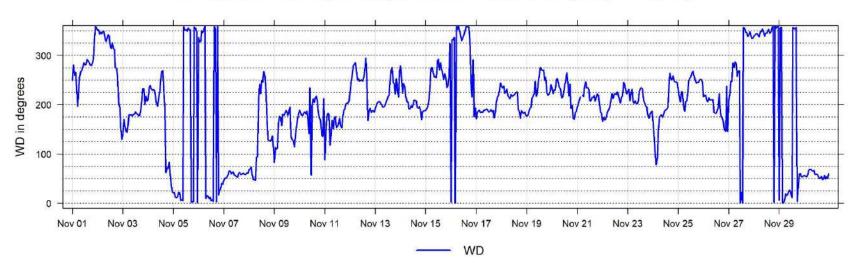






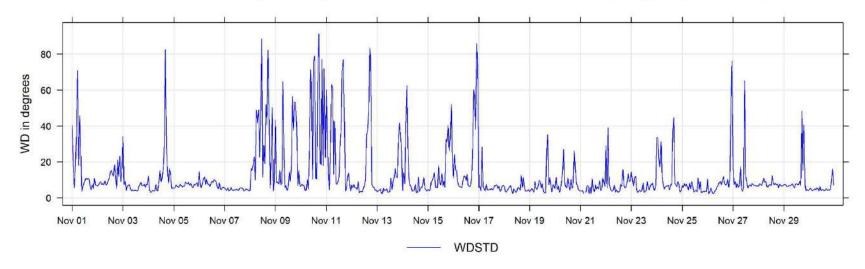
November 2022 Hourly Temperature Readings (in °C) at Donnelly

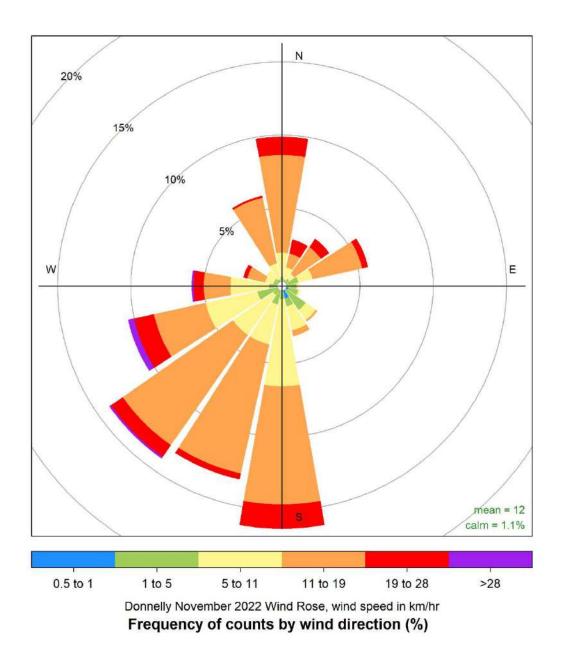
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November 2022 Hourly Readings of Wind Direction (in degrees) at Donnelly

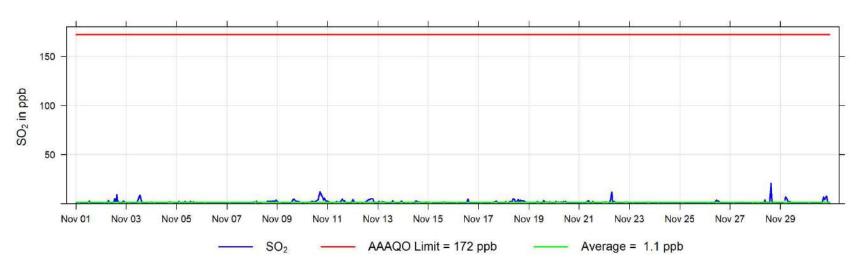
November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Donnelly



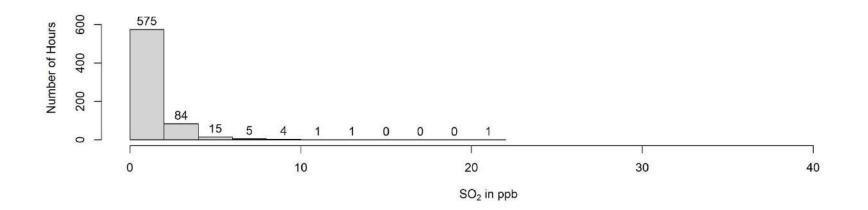


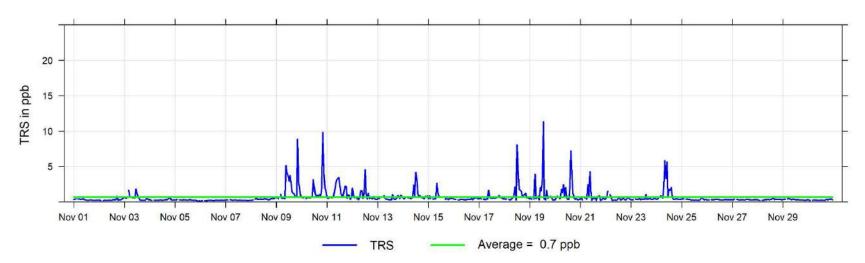
8 Poplar (Portable) Charts

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

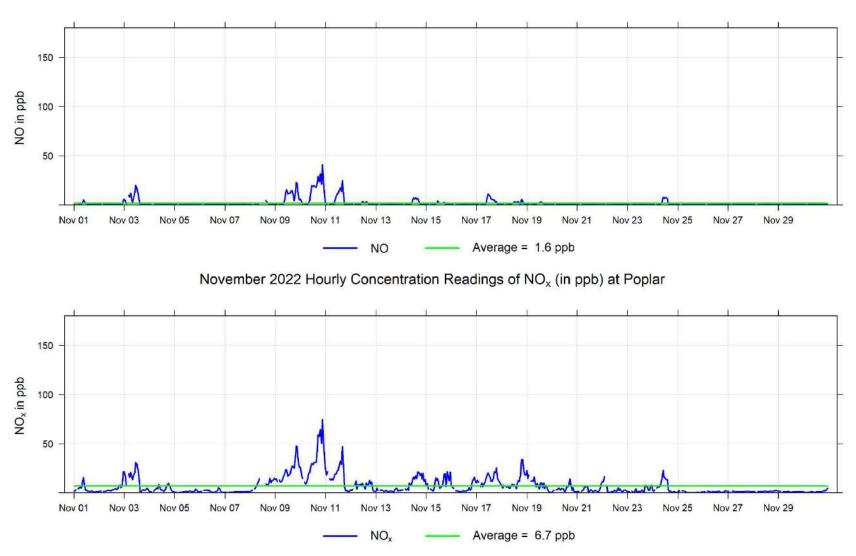


November 2022 Hourly Concentration Readings of SO₂ (in ppb) at Poplar

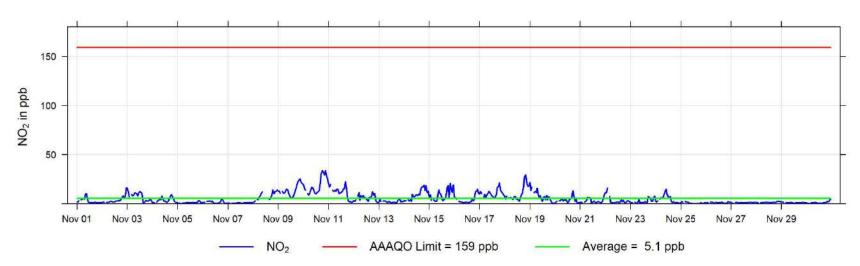




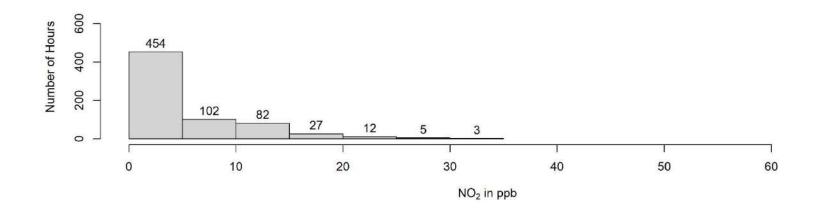
November 2022 Hourly Concentration Readings of TRS (in ppb) at Poplar

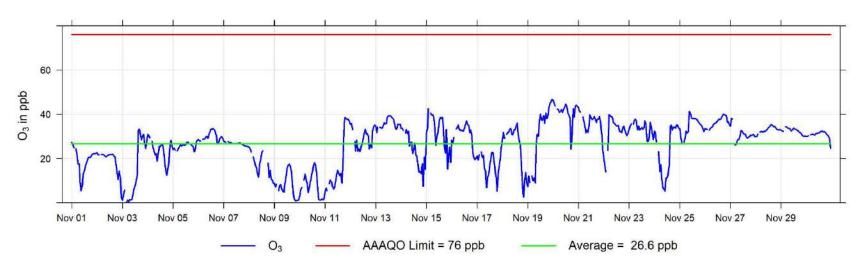


November 2022 Hourly Concentration Readings of NO (in ppb) at Poplar

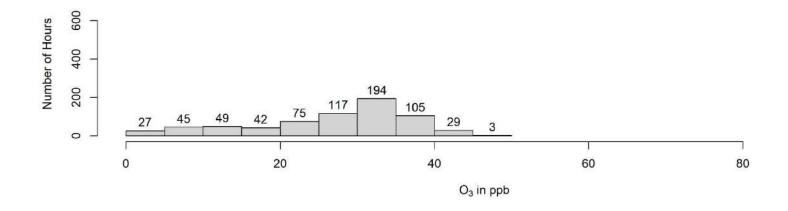


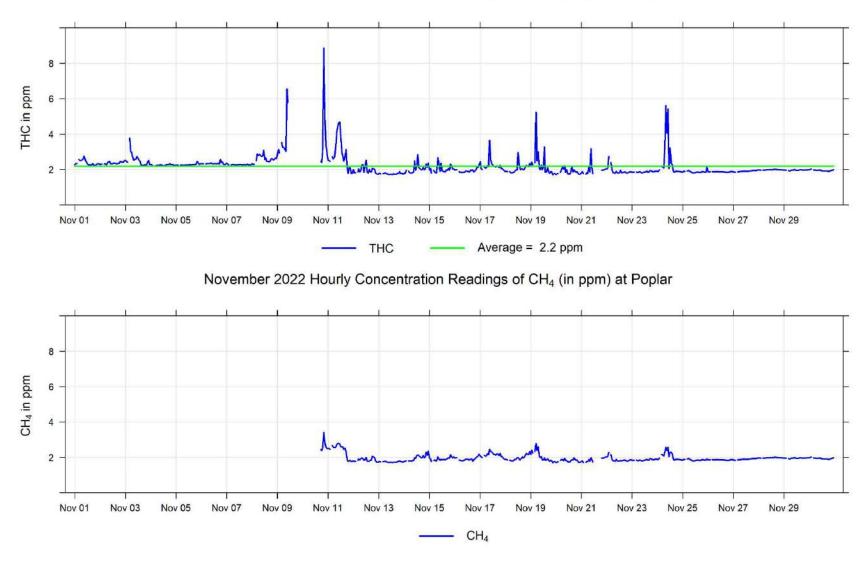
November 2022 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



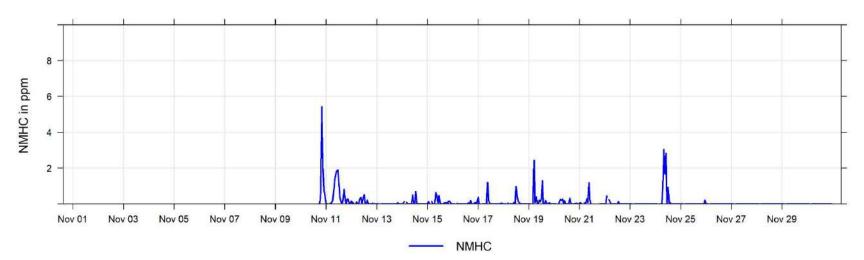


November 2022 Hourly Concentration Readings of O₃ (in ppb) at Poplar

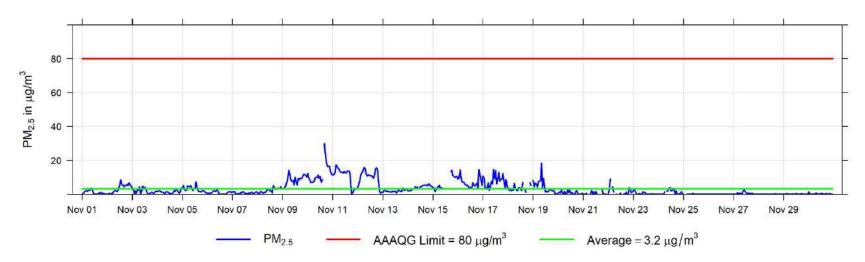




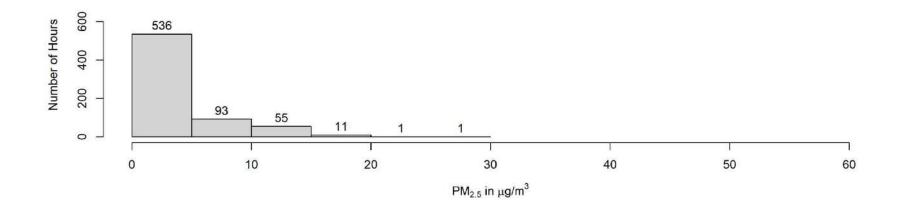
November 2022 Hourly Concentration Readings of THC (in ppm) at Poplar

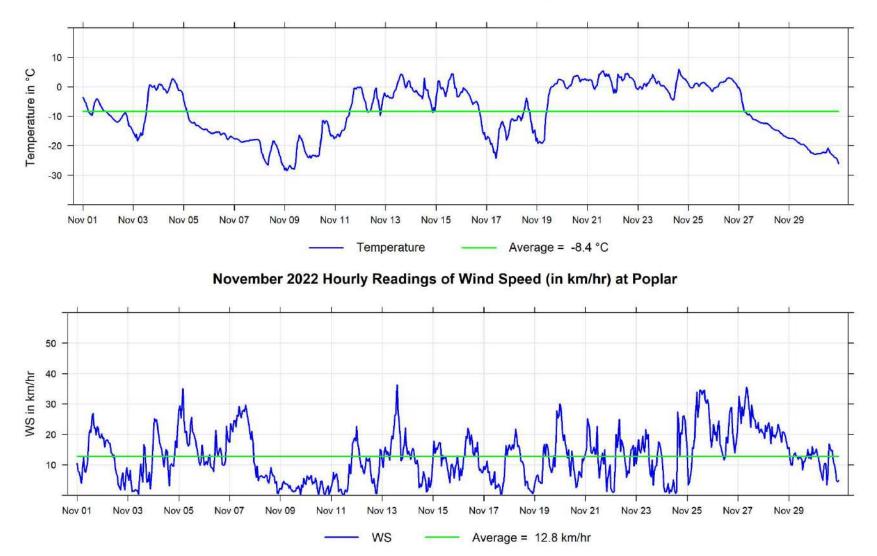


November 2022 Hourly Concentration Readings of NMHC (in ppm) at Poplar

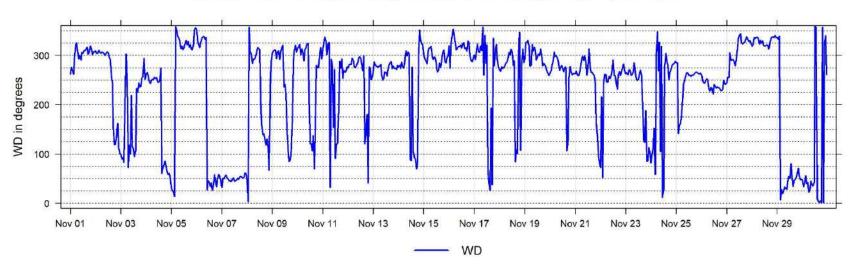


November 2022 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Poplar



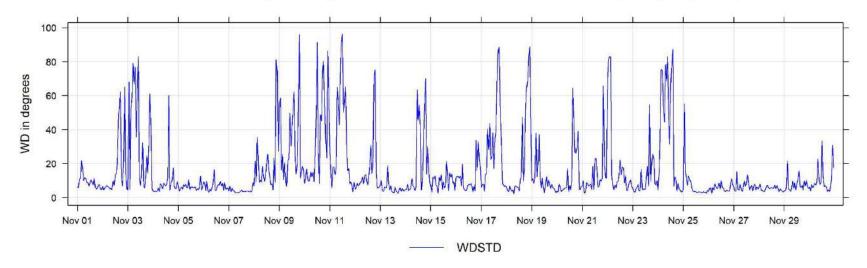


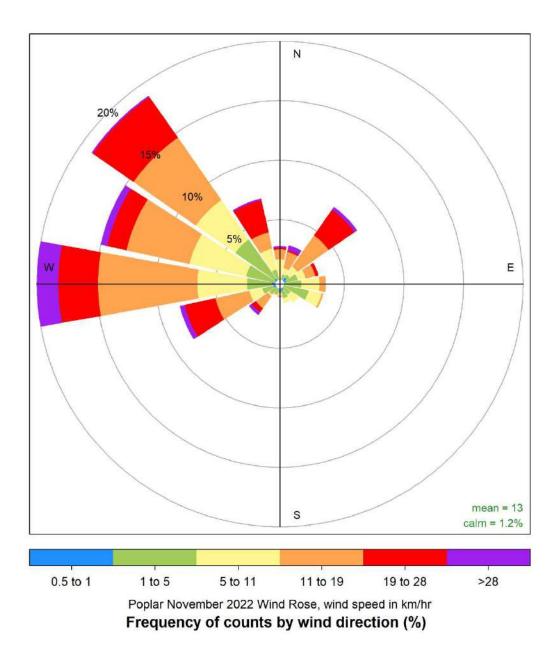
November 2022 Hourly Temperature Readings (in °C) at Poplar



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

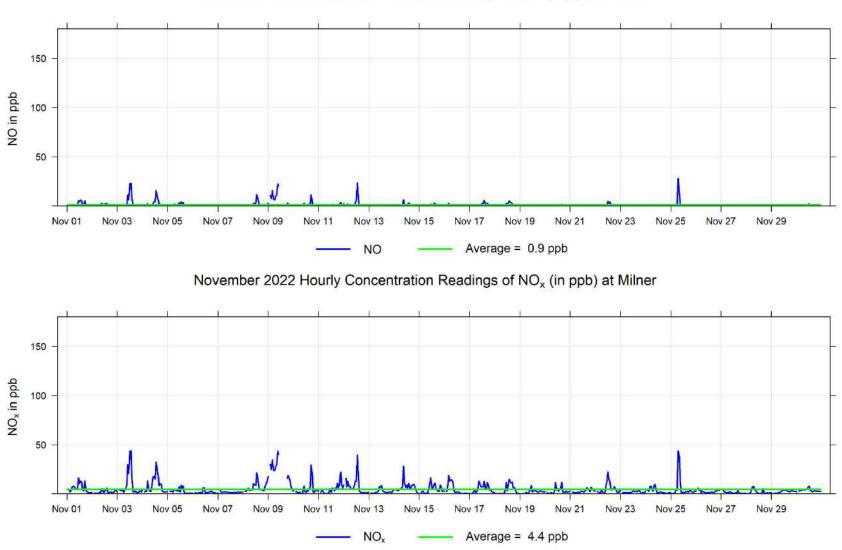
November 2022 Hourly Readings of Wind Direction Standared Deviation (in degrees) at Poplar



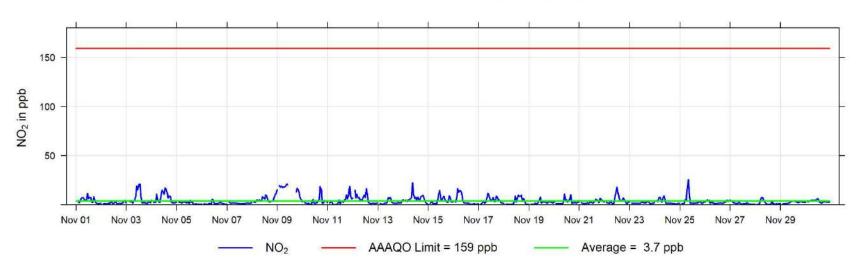


9 Milner Charts

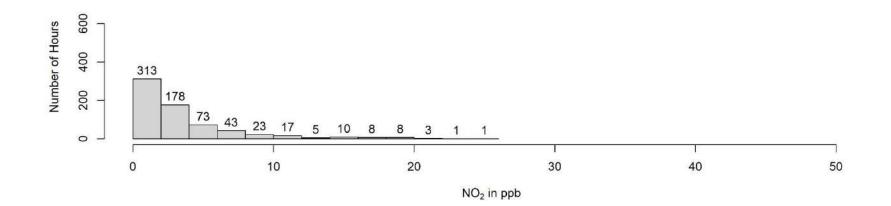
The following pages include the charts and histograms for Poplar Portable Station

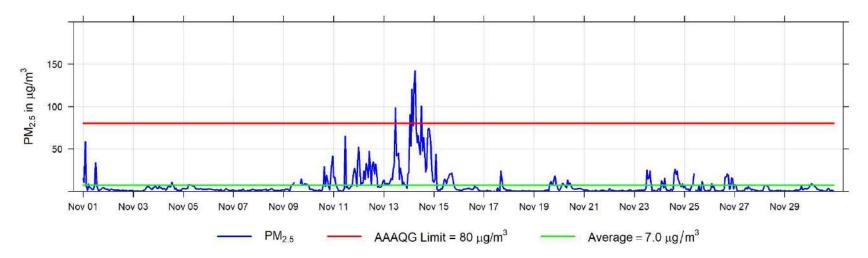


November 2022 Hourly Concentration Readings of NO (in ppb) at Milner

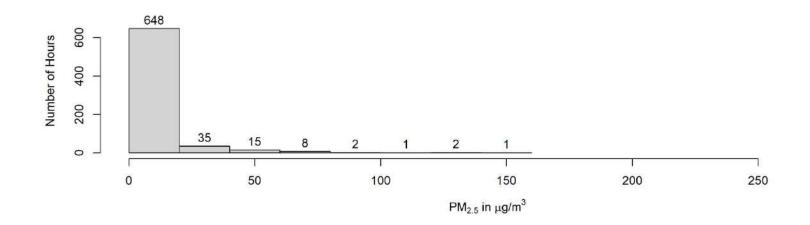


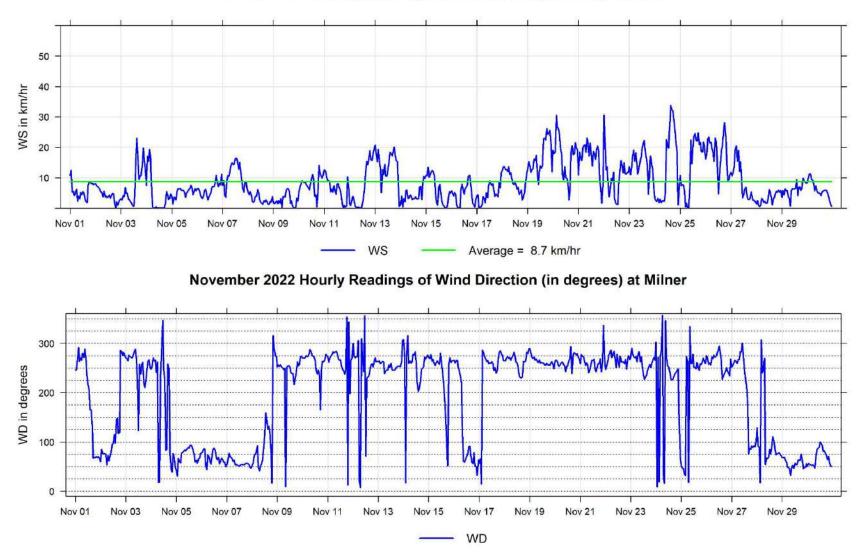
November 2022 Hourly Concentration Readings of NO2 (in ppb) at Milner



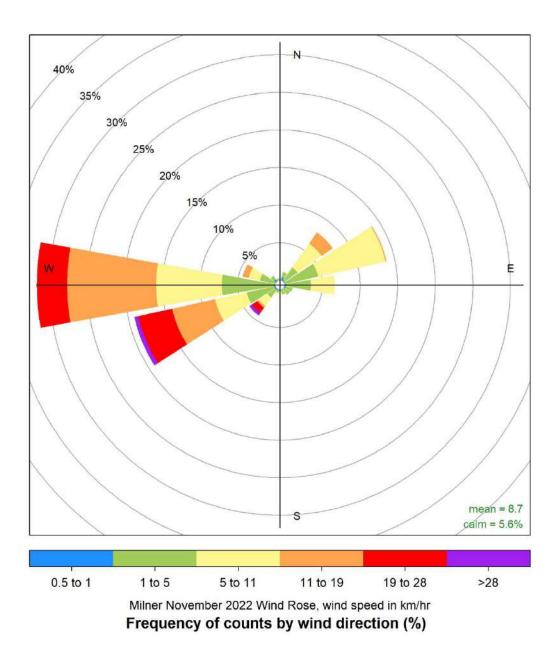


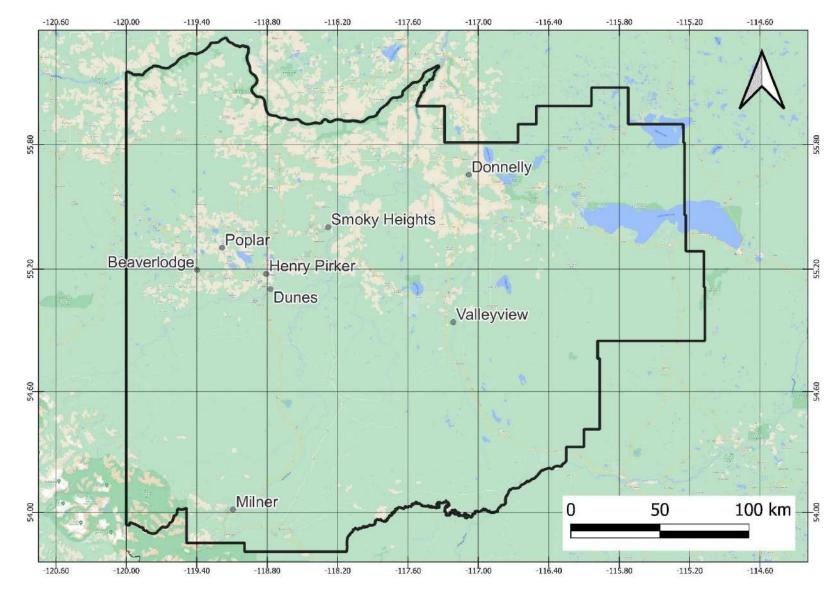
November 2022 Hourly Concentration Readings of $PM_{2.5}$ in $\mu g/m^3$ at Milner



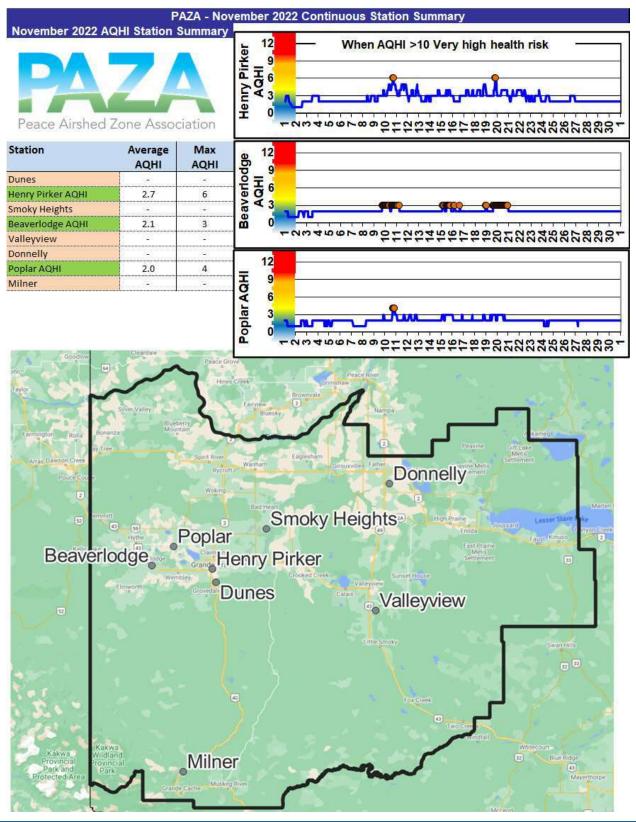


November 2022 Hourly Readings of Wind Speed (in km/hr) at Milner



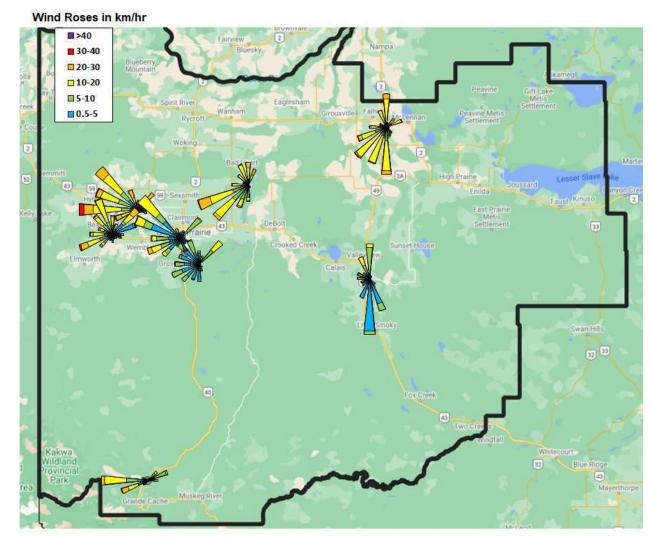


10 Concentration Summaries and Roses for PAZA

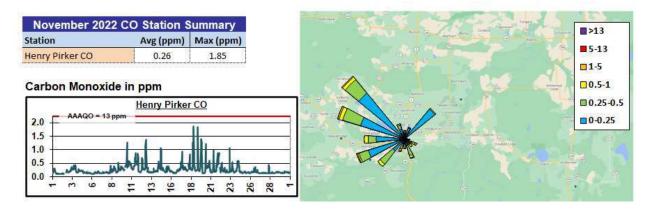


10.1 Air Quality Health Index (AQHI) Plots

10.2 Wind Roses

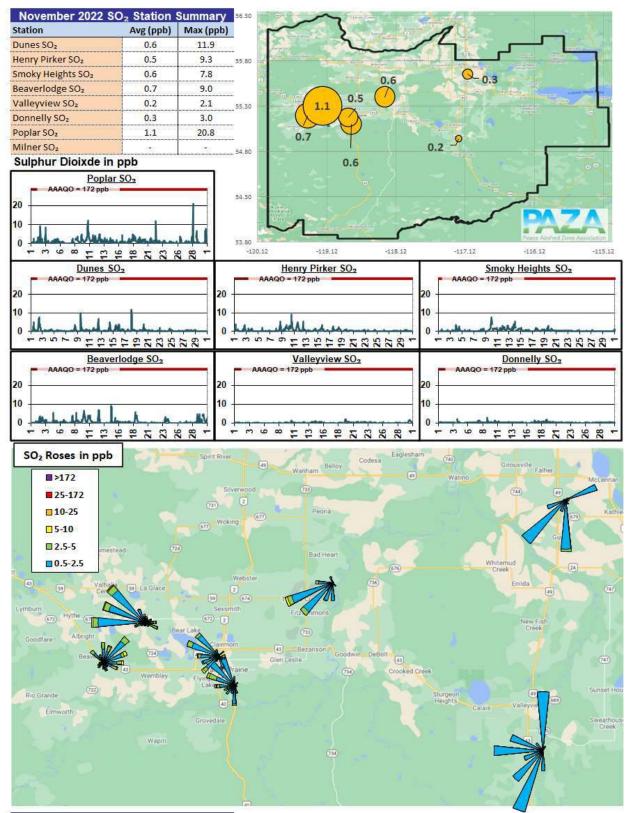


10.3 Carbon Monoxide (CO) Plots



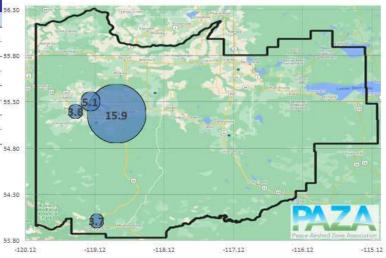
October 2022

10.4 Sulphur Dioxide (SO₂) Plots

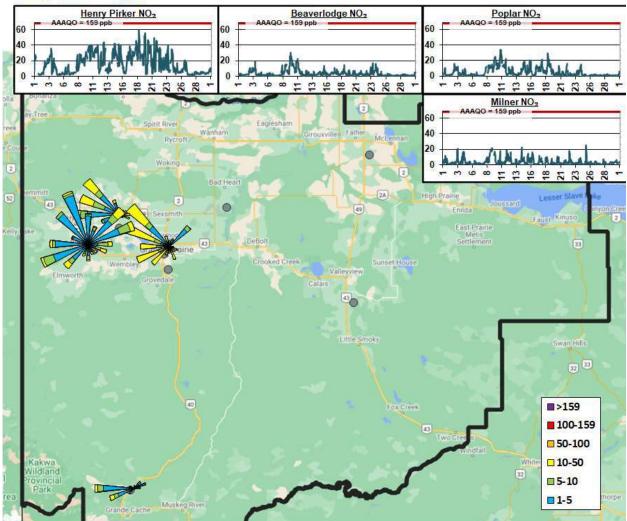


10.5 Nitrogen Dioxide (NO₂) Plots

Station	Avg (ppb)	Max (ppb)
Dunes NO ₂		ana ana itila ana a
Henry Pirker NO2	15.9	58.7
Smoky Heights NO ₂	139	1 .
Beaverlodge NO ₂	3.8	30.7
Valleyview NO ₂	676	1.71
Donnelly NO ₂	140	(1 0)
Poplar NO₂	5.1	33.4
Milner NO ₂	3.7	25.3

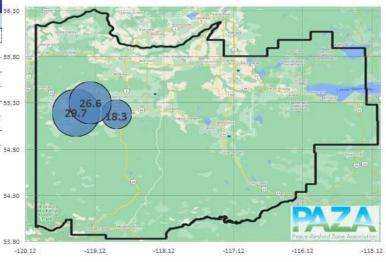


Nitrogen Dioixde in ppb



10.6 Ozone (O₃) Plots

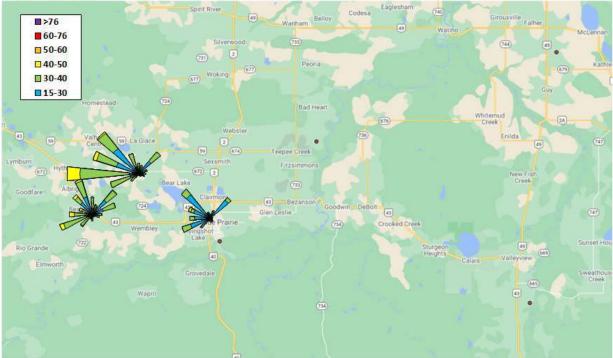
Station	Avg (ppb)	Max (ppb)
Dunes O₃	-	
Henry Pirker O₃	18.3	43.3
Smoky Heights O₃	1.50	(5 9)
Beaverlodge O₃	29.7	47. 0
Valleyview O₃	(73)	(7)
Donnelly O₃	120	120
Poplar O₃	26.6	46.6
Milner O₃		



Ozone in ppb

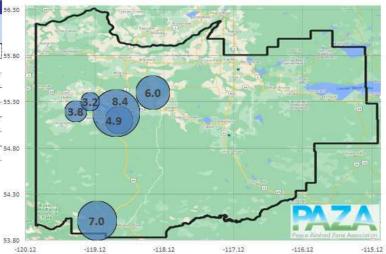
100	Henry Pirker O ₃	100	Beaverlodge O ₃	100	Poplar O ₃
80 - 60 - 40 -	AAAQO = 76 ppb	80 60 40	AAAQO = 76 ppb	80 60 40	AAAQO = 76 ppb
20 - 0 -	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	20 0	28 28 23 28 29 29 28 28 28 28 28 28 28 28 28 28 28 28 28	40 20 0	

O3 Roses in ppb

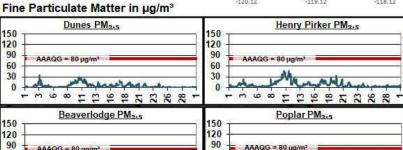


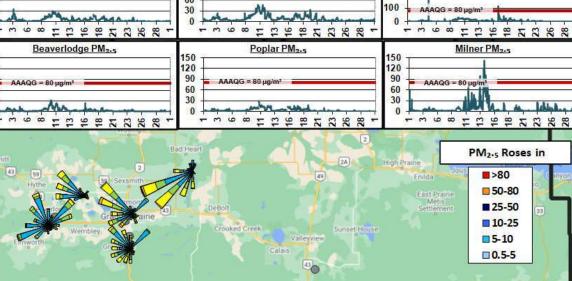
November 2022 PM	2.5 Station	Summary	56.3
Station	Avg µg/m³	Max µg/m³	
Dunes PM2.5	4.9	34.6	55.8
Henry Pirker PM2.5	8.4	47.7	
Smoky Heights PM2.5	6.0	356.4	
Beaverlodge PM ₂₋₅	3.8	32.3	
Valleyview PM2.5	(_)	120	
Donnelly PM2.5	-	-	
Poplar PM2.5	3.2	29.8	
Milner PM2.5	7.0	142.3	54.8

10.7 Fine Particulate Matter (PM_{2.5}) Plots



Smoky Heights PM2.5

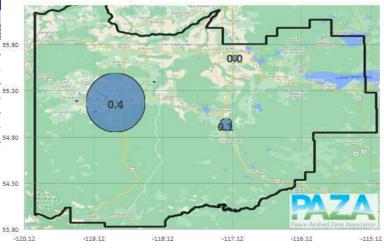






10.8 Hydrogen Sulphide (H₂S) Plots

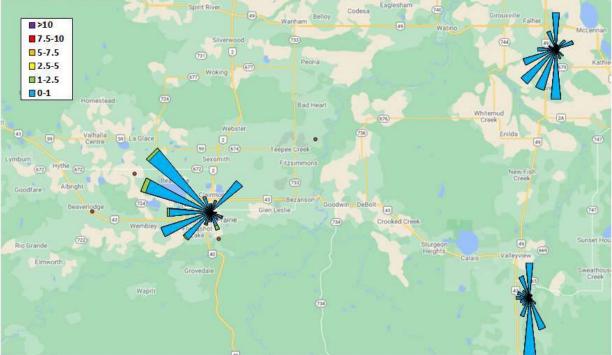
Station	Avg (ppb)	Max (ppb)	
Dunes H₂S		and a state of the second	
Henry Pirker H₂S	0.4	1.8	55.8
Smoky Heights H ₂ S	1.50	170	
Beaverlodge H₂S	-	-	
Valleyview H₂S	0.1	0.5	55.3
Donnelly H ₂ S	0.0	0.4	
Poplar H₂S	-	-	57 12
Milner H₂S	5 - 51	270	54 R



Hydrogen Sulphide in ppb

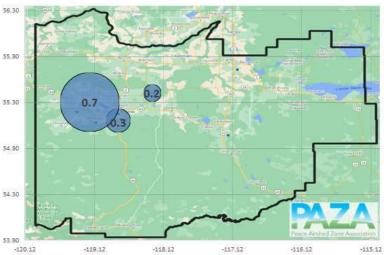
10 AAAQO = 10 ppb	10 AAAQO = 10 ppb	10 AAAQO = 10 ppb
6	6	6 4
2 2 3 3 4 1 1 1 8 8 8 7 1 1 1 8 8 7 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 23 23 23 23 23 2	0 1 1 1 1 1 1 1 1 1 1 1 1 1

H-S Roses in nnh



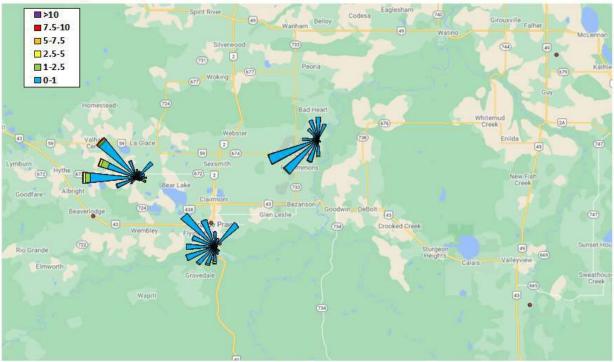
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.3	2.8
Henry Pirker TRS	-	-
Smoky Heights TRS	0.2	4.1
Beaverlodge TRS	-	-
Valleyview TRS	(- 3	171
Donnelly TRS	140 C	120
Poplar TRS	0.7	11.4
Milner TRS		9 - 91

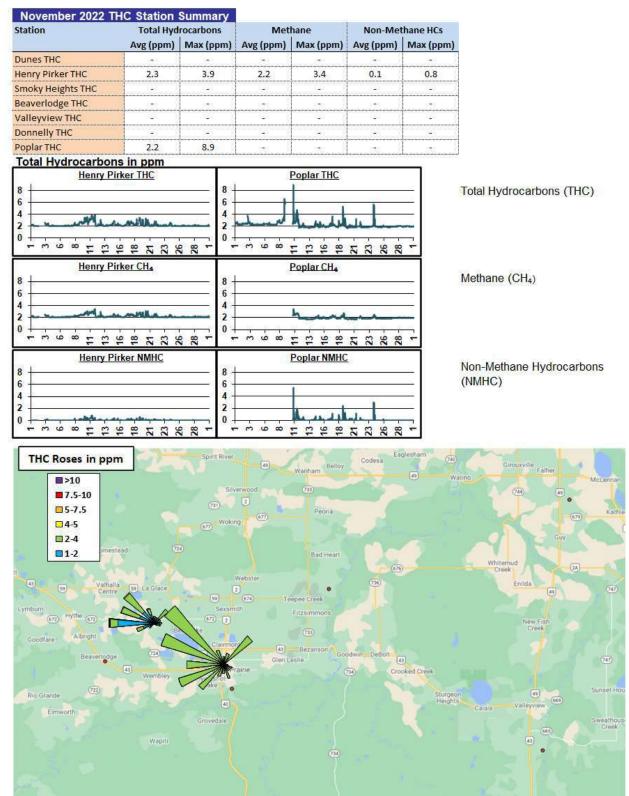
10.9 Total Reduced Sulphur (TRS) Plots



Dunes TRS	20	Smoky Heights TF	20	P	oplar TRS	
-	15		1			
-	- 10		10	0	the second	
		- due			الم الم	

TRS Roses in ppb





10.10 Total Hydrocarbon (THC) Plots

10.11 Meteorology Summary

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Poplar Temp (°C) 20 10 -10 -20 -30

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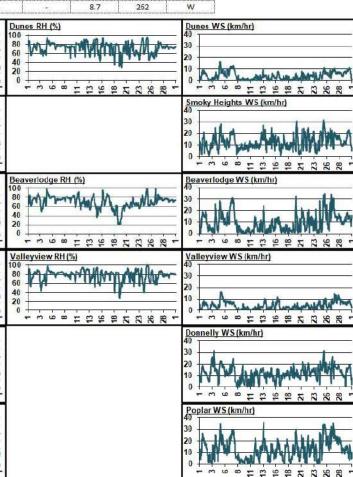
2

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Station	Temp (°C)	RH (%)	SR (W/m ²)	WS (km/hr)	WD (deg)	WD	
Dunes	-7.6	71.8		4.0	321	NW	Temp (°C) Outside Temperature
Henry Pirker	-7.2	67.3	25.6	6.5	289	WNW	RH (%) Relative Humidity
Smoky Heights	-7.9	-		12.6	257	W	SR (W/m ²) Solar Radiation
Beaverlodge	-6.6	70.1	-	9.7	319	NW	WS (km/hr) Wind Speed
/alleyview	-7.6	77.4		4.4	304	WNW	WD (deg) Wind Direction
Donnelly	-6.7	-	-	12.2	234	SW	WD Wind Direction
Poplar	-8.4	-	-	12.8	301	WNW	
Milner	-	-	-	8.7	252	W	



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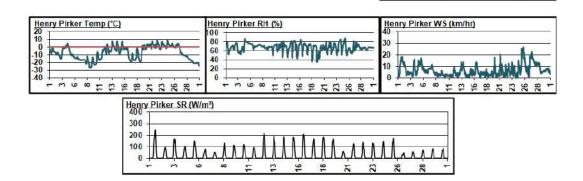
Milner WS (km/hr)

0 0 0

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11 Passive Monitoring Data

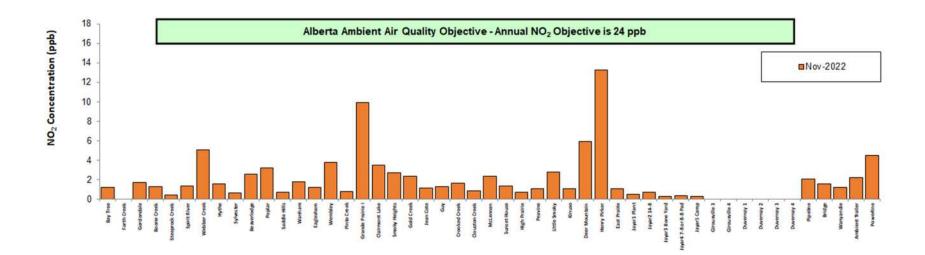
Peace Airshed Zone Association - PAZA Passive Stations for November 2022

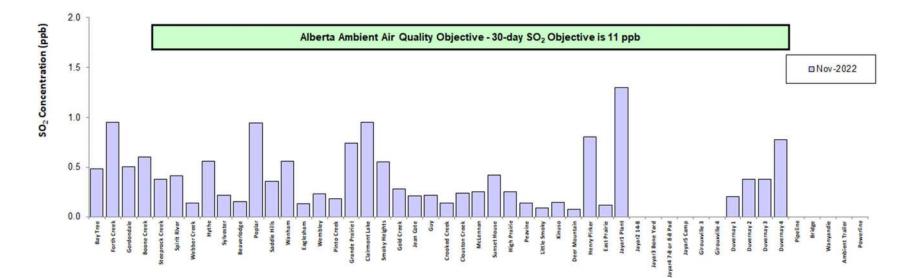
Station	Station	SO2	03	NO2	H2S	
Number	Name	ppb	ppb	ppb	ppb	LSD
Duplicates						
4a	Gordondale	0.3				04-34-078-10 W6M
4b	Gordondale	0.7				
5a	Boone Creek			1.3		01-23-076-11 W6M
5b	Boone Creek			1.3		
7a	Steeprock Creek			0.5		09-35-072-13 W6M
7b	Steeprock Creek			0.4		
17a	Poplar			3.2		13-06-073-08 W6M
17b	Poplar			missing		the same stated into the
19a	Wanham	0.4				16-22-077-03 W6M
19b	Wanham	0.7	·		-	
21a	Eaglesham			1.2		16-21-079-25 W5M
21b	Eaglesham			1.2		
36a	Guy				0.18	03-04-076-22 W5M
36b	Guy				0.16	
37a	Crooked Creek		29.0			16-01-071-26 W5M
37b	Crooked Creek		34.7			
40a	McLennan			3.4		03-29-077-19 W5M
40b	McLennan			1.3		
42a	Sunset House	0.4				05-32-070-19 W5M
42b	Sunset House	0.4				
D2a	Duvernay 2	0.2			0.10	04-33-062-20 W5M
D2b	Duvernay 2	0.2			0.13	
J1a	Jayar3 Bone Yard				0.10	14-08-062-03 W6M
J1b	Jayar3 Bone Yard				0.10	
J2a	Jayar4 7-8 or 8-8 Pad			0.7		10-08-062-03 W6M
J2b	Jayar4 7-8 or 8-8 Pad			0.8		
J4a	Jayar5 Camp	<0.1				11-08-062-03 W6M
J4b	Jayar5 Camp	<0.1				
M9Aa	Pipeline	<0.1				12-14-058-08 W6M
M9Ab	Pipeline	<0.1				
M9Ba	Ambient Trailer			2.4		09-15-058-08 W6M
M9Bb	Ambient Trailer		2	2.0		

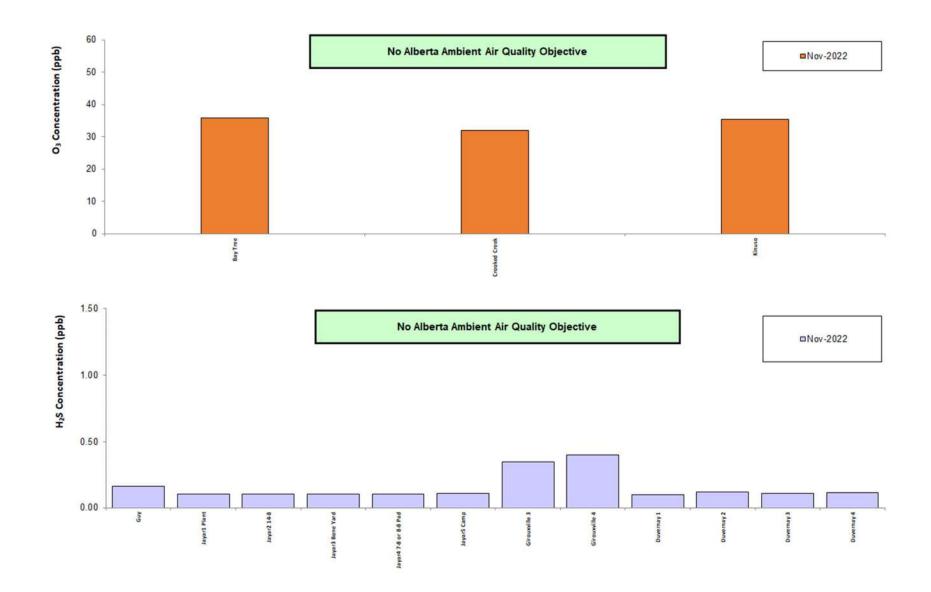
Station Number	Station Name	SO2	03	NO2	H2S	LSD
ALC: NOT OTHER DESIGNATION.		ppb	ppb	ppb	ppb	and the second se
2	Bay Tree	0.5	35.7	1.3	•	13-16-078-13 W6N
3	Forth Creek	1.0	•		•	04-13-082-07 W6N
4	Gordondale	0.5		1.7	-	04-34-078-10 W6N
5	Boone Creek	0.6	•	1,3	-	01-23-076-11 W6N
7	Steeprock Creek	0.4	1.	0.4		09-35-072-13 W6N
9	Spirit River	0.4	•	1.3	-	08-12-079-07 W6N
11	Webber Creek	0.1	-	5.1	•	09-36-074-09 W6N
12	Hythe	0.6		1.6		14-36-072-11 W6N
14	Sylvester	0.2	-	0.7	-	08-06-069-12 W6N
16	Beaverlodge	0.1	•	2.6	-	15-36-071-10 W6N
17	Poplar	-	5 7 0	3.2	•	13-06-073-08 W6N
18	Saddle Hills	0.4	- ·	0.7	-	04-25-074-07 W6N
19	Wanham	0.6	1.02	1.8	-	16-22-077-03 W6N
21	Eaglesham	0.1	-	1.2	-	16-21-079-25 W5N
24	Wembley	0.2	-	3.8	-	12-31-070-08 W6N
25	Pinto Creek	0.2	(*)	0.8		04-24-069-11 W6N
27	Grande Prairie I	0.7	-	9.9	-	08-15-071-06 W6N
28	Clairmont Lake	1.0	-	3.5	-	09-06-073-04 W6N
29	Smoky Heights	0.6	-	2.7	-	04-06-075-02 W6N
32	Gold Creek	0.3		2.4	-	06-33-067-05 W6N
35	Jean Cote	0.2	. .	1.2	-	12-35-079-21 W5N
36	Guy	0.2	-	1.3	0.17	03-04-076-22 W5N
37	Crooked Creek	0.1	31.9	1.7		16-01-071-26 W5N
39	Clouston Creek	0.2		0.9	-	12-01-073-22 W5N
40	McLennan	0.3	-	2.4	-	03-29-077-19 W5N
42	Sunset House	0.4	-	1.3	-	05-32-070-19 W5N
43	High Prairie	0.3	-	0.7	-	16-13-074-17 W5N
44	Peavine	0.1	-	1.1	-	03-05-079-15 W5N
46	Little Smoky	0.1	-	2.8	-	12-01-065-21 W5N
47	Kinuso	0.1	35,3	1.1	-	12-10-073-10 W5N
48	Deer Mountain	0.1	-	5.9	•	15-22-068-09 W5N
49	Henry Pirker	0.8		13.3	-	17-26-071-06 W6N
50	East Prairie	0.1	-	1.1	-	11-13-079-08 W6N
57	Jayar1 Plant	1.3		0.5	0.10	06-08-062-03 W6N
58	Jayar2 14-8	<0.1	-	0.8	0.10	07-08-062-03 W6N
59	Jayar3 Bone Yard	<0.1		0.3	0.10	14-08-062-03 W6N
60	Jayar4 7-8 or 8-8 Pad	<0.1		0.3	0.10	
61		<0.1	-	0.4	0.10	10-08-062-03 W6N
	Jayar5 Camp		-			11-08-062-03 W6N
G3	Girouxville 3	-	-	•	0.3	14-02-077-23 W5N
G4	Girouxville 4	-			0.40	04-08-077-22 W5N
D1	Duvernay 1	0.2	-		0.10	04-33-062-20 W5N
D2	Duvernay 2	0.4	•		0.12	04-33-062-20 W5N
D3	Duvernay 3	0.4		•	0.11	04-33-062-20 W5N
D4	Duvernay 4	0.8	-		0.11	04-33-062-20 W5N
M1	Pipeline	<0.1		2.1		12-14-058-08 W6N
M2	Bridge	<0.1	-	1.6		08-06-057-08 W6N
M3	Wanyandie	<0.1	•	1.2		11-13-058-08 W6N
M4	Ambient Trailer	<0.1		2.2		09-15-058-08 W6N
M5	Powerline	<0.1	-	4.5		06-14-058-08 W6N

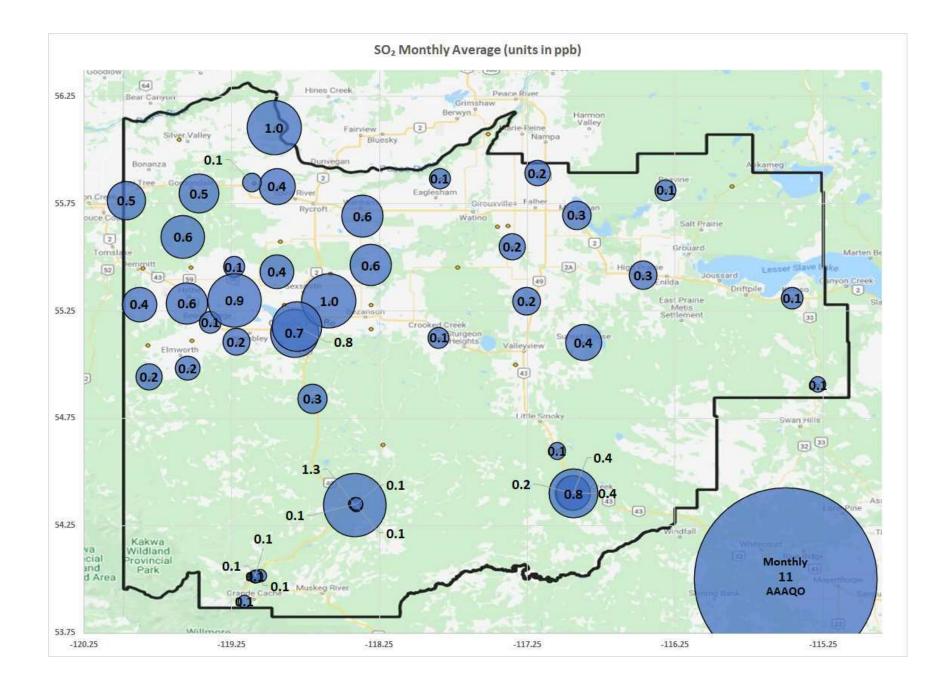
Passive Summary for November 2022

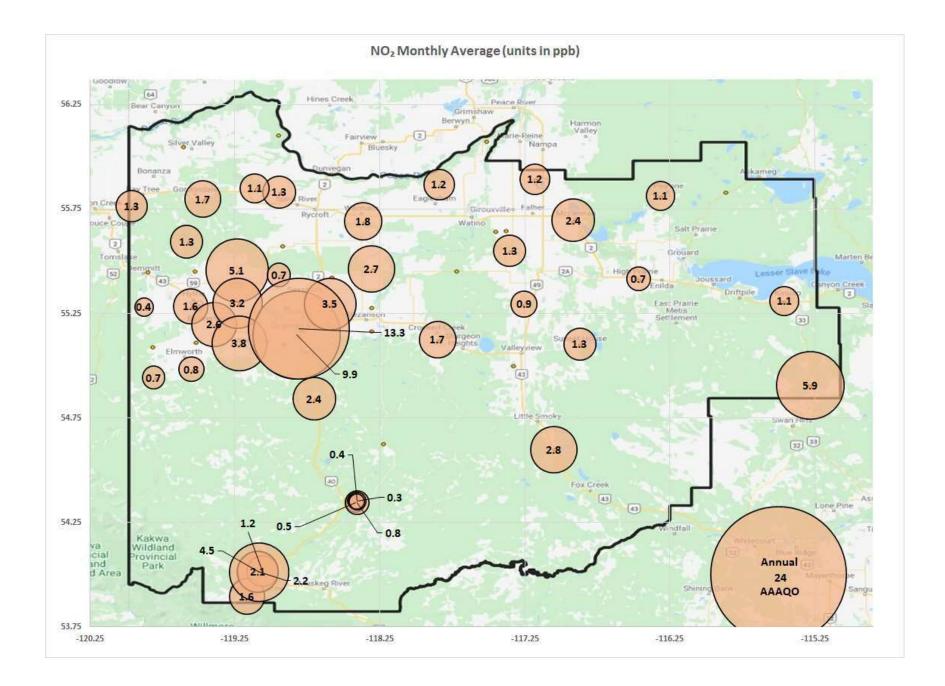
	Sulphur Dioxide	Ozone	Nitrogen Dioxide	Hydrogen Sulphide
Stats	SO ₂	O ₃	NO ₂	H ₂ S
-	ppb	ppb	ppb	ppb
Г		Passive Summary for	November 2022 (PAZA)	
Mean	0.4	34.3	2.2	0.2
Standard Deviation	0.3	2.1	2.5	0.1
Minimum	0.1	31.9	0.3	0.1
	Deer Mountain (#48)	Crooked Creek (#37)	Jayar3 Bone Yard (#59)	Duvernay 1 (#D1)
Maximum	1.3	35.7	13.3	0.4
Ĺ	Jayar1 Plant (#57)	Bay Tree (#2)	Henry Pirker (#49)	Girouxville 4 (#G4)
Г	(Continuous and Passive	Monitoring Comparision	(Second Second S
PAZA Beaverlodge Station	0.7	29.7	3.8	-
Beaverlodge Passive (#16)	0.1	-	2.6	-
AZA Henry Pirker Station	0.5	18.3	15.9	0.4
Henry Pirker passive (#49)	0.8	-	13.3	-
Milner Station	-	-	3.7	-
Henry Pirker passive (#49)	<0.1	-	2.2	-

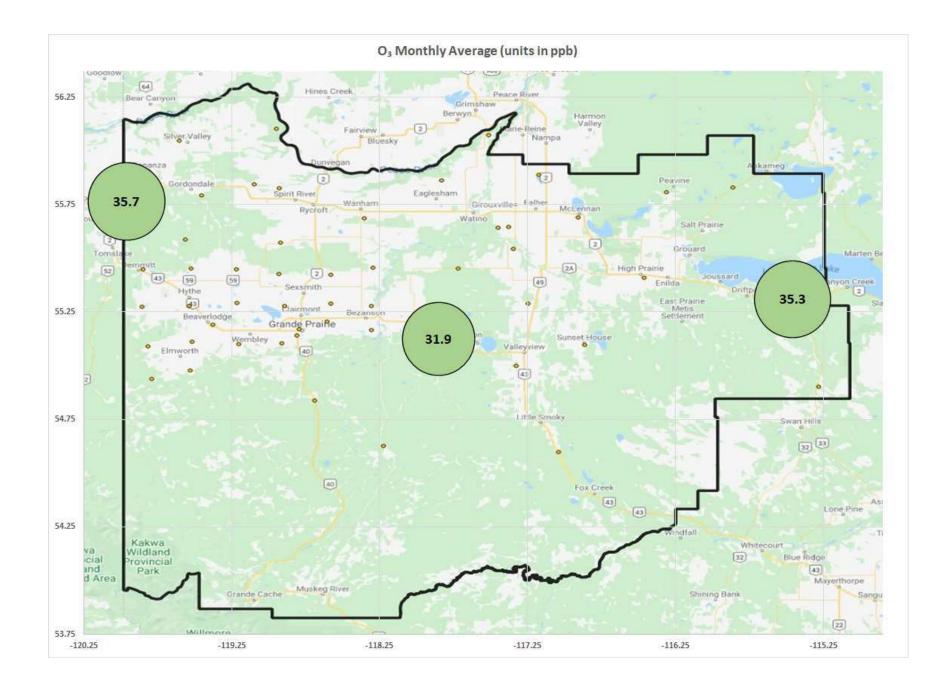


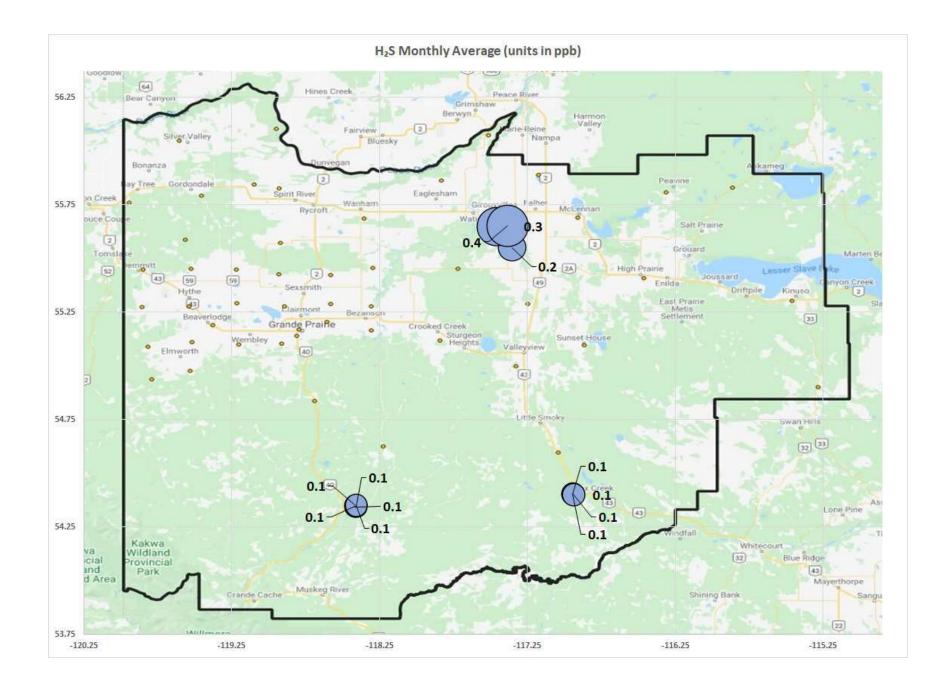








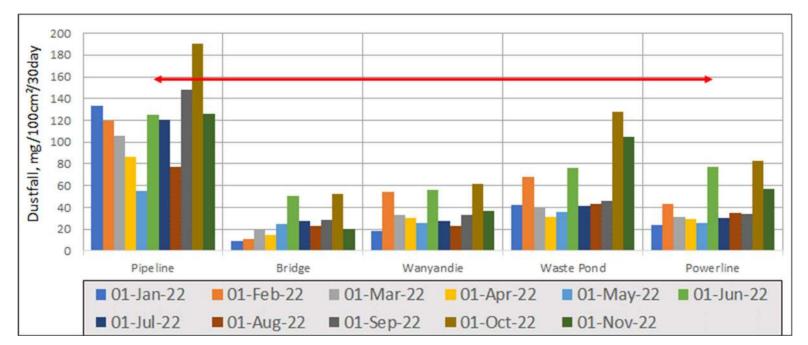




12 Dustfall Monitoring Data

Milner Dustfall Samples November 2022

Exposure Month	Year	Sample	Total Dustfall (30 day)	Fixed Dustfall (30 day)	Exposure	Field Notes
	November	2022	Pipeline	125.6	43.3	30
November	2022	Bridge	20.0	13.1	31	
November	2022	Wanyandie	36.7	13.5	30	
November	2022	Waste Pond	105.1	24.2	30	
November	2022	Powerline	56.6	16.2	30	
November	2022	Powerline Dup	84.5	10.3	30	RPD= 40% / 45%



13 End of Report

End of Report



Peace Airshed Zone Association Ambient Air Monitoring Report

November 2022