



# Peace Airshed Zone Association

## Ambient Air Monitoring Network Summary

### Ambient Air Quality Monitoring Program

### 2023 Annual Report

#### VERSION CONTROL

Version	Date	Issue Type	Filename	Description
V1.0	17-Mar 2024	Draft	2023 PAZA Annual report.docx	Issued for review
V1.1	29-Mar 2024	Final	2023 PAZA Annual report_update.docx	Issued as final

## TABLE OF CONTENTS

1	SUMMARY OF KEY PARAMETERS MONITORED IN 2023 .....	49
1.1	Map of PAZA Continuous Stations in 2023 .....	50
1.1.1	Map of PAZA Continuous Stations in 2023 (January to July) .....	50
1.1.2	Map of PAZA Continuous Stations in 2023 (October to December) .....	51
1.2	Map of PAZA Passive Stations in 2023 .....	53
2	PAZA KEY PARAMETERS - 2023 SUMMARY .....	54
2.1	Sulphur Dioxide (SO <sub>2</sub> ) 2023 Summary .....	54
2.2	Hydrogen Sulphide (H <sub>2</sub> S) 2023 Summary .....	57
2.3	Total Reduced Sulphur (TRS) 2023 Summary .....	60
2.4	Nitrogen Dioxide (NO <sub>2</sub> ) 2023 Summary .....	63
2.5	Ozone (O <sub>3</sub> ) 2023 Summary .....	66
2.6	Total Hydrocarbons (THC / CH <sub>4</sub> / NMHC) 2023 Summary .....	69
2.7	Carbon Monoxide (CO) 2023 Summary .....	75
2.8	Particulate Matter (PM <sub>2.5</sub> ) 2023 Summary (T640 corrected) .....	78
2.9	Meteorology 2023 Summary .....	82
2.10	Wind Profile (wind roses) 2023 Summary .....	84
3	BEAVERLODGE KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY .....	85
3.1	Beaverlodge AQHI Calendar Plot for 2023 .....	87
3.2	Sulphur Dioxide (SO <sub>2</sub> ) - Beaverlodge 2023 Summary .....	88
3.3	Nitrogen Dioxide (NO <sub>2</sub> ) - Beaverlodge 2023 Summary .....	92
3.4	Nitric Oxide (NO) - Beaverlodge 2023 Summary .....	95
3.5	Oxides of Nitrogen (NO <sub>x</sub> ) - Beaverlodge 2023 Summary .....	96
3.6	Ozone (O <sub>3</sub> ) - Beaverlodge 2023 Summary .....	97
3.7	Particulate Matter (PM <sub>2.5</sub> ) - Beaverlodge 2023 Summary .....	100
3.8	Temperature (ET) - Beaverlodge 2023 Summary .....	104
3.9	Relative Humidity (RH) - Beaverlodge 2023 Summary .....	105
3.10	Wind Speed and Wind Direction (WS and WD) - Beaverlodge 2023 Summary .....	106
3.11	Beaverlodge Annual Trends, 2013 to 2023 .....	109
4	DONNELLY KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY .....	119
4.1	Sulphur Dioxide (SO <sub>2</sub> ) - Donnelly 2023 Summary .....	121
4.2	Hydrogen Sulphide (H <sub>2</sub> S) - Donnelly 2023 Summary .....	125
4.3	Temperature (ET) - Donnelly 2023 Summary .....	129
4.4	Wind Speed and Wind Direction (WS and WD) - Donnelly 2023 Summary .....	130
4.5	Donnelly Annual Trends, 2017 to 2023 .....	133
5	DUNES KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY .....	140
5.1	Sulphur Dioxide (SO <sub>2</sub> ) - Dunes 2023 Summary .....	142
5.2	Total Reduced Sulphur (TRS) - Dunes 2023 Summary .....	146
5.3	Particulate Matter (PM <sub>2.5</sub> ) - Dunes 2023 Summary .....	150
5.4	Temperature (ET) - Dunes 2023 Summary .....	154

	5.5	Relative Humidity (RH) - Dunes 2023 Summary .....	155
	5.6	Wind Speed and Wind Direction (WS and WD) - Dunes 2023 Summary .....	156
6		FOX CREEK KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY.....	159
	6.1	Fox Creek AQHI Calendar Plot for 2023 .....	161
	6.2	Sulphur Dioxide (SO <sub>2</sub> ) - Fox Creek 2023 Summary .....	162
	6.3	Hydrogen Sulphide (H <sub>2</sub> S) - Fox Creek 2023 Summary .....	166
	6.4	Nitrogen Dioxide (NO <sub>2</sub> ) - Fox Creek 2023 Summary .....	170
	6.5	Nitric Oxide (NO) - Fox Creek 2023 Summary.....	173
	6.6	Oxides of Nitrogen (NO <sub>x</sub> ) - Fox Creek 2023 Summary .....	174
	6.7	Ozone (O <sub>3</sub> ) - Fox Creek 2023 Summary.....	175
	6.8	Particulate Matter (PM <sub>2.5</sub> ) - Fox Creek 2023 Summary .....	178
	6.9	Temperature (ET) - Fox Creek 2023 Summary.....	182
	6.10	Wind Speed and Wind Direction (WS and WD) - Fox Creek 2023 Summary.....	183
7		HENRY PIRKER KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY.....	186
	7.1	Henry Pirker AQHI Calendar Plot for 2023.....	188
	7.2	Sulphur Dioxide (SO <sub>2</sub> ) - Henry Pirker 2023 Summary .....	189
	7.3	Hydrogen Sulphide (H <sub>2</sub> S) - Henry Pirker 2023 Summary .....	193
	7.4	Nitrogen Dioxide (NO <sub>2</sub> ) - Henry Pirker 2023 Summary.....	197
	7.5	Nitric Oxide (NO) - Henry Pirker 2023 Summary .....	200
	7.6	Oxides of Nitrogen (NO <sub>x</sub> ) - Henry Pirker 2023 Summary.....	201
	7.7	Ozone (O <sub>3</sub> ) - Henry Pirker 2023 Summary .....	202
	7.8	Total Hydrocarbons (THC) - Henry Pirker 2023 Summary .....	205
	7.9	Methane (CH <sub>4</sub> ) - Henry Pirker 2023 Summary.....	208
	7.10	Nonmethane Hydrocarbons (NMHC) - Henry Pirker 2023 Summary .....	209
	7.11	Carbon Monoxide (CO) - Henry Pirker 2023 Summary.....	210
	7.12	Particulate Matter (PM <sub>2.5</sub> ) - Henry Pirker 2023 Summary .....	214
	7.13	Temperature (ET) - Henry Pirker 2023 Summary .....	218
	7.14	Relative Humidity (RH) - Henry Pirker 2023 Summary .....	219
	7.15	Solar Radiation (SR) - Henry Pirker 2023 Summary .....	220
	7.16	Wind Speed and Wind Direction (WS and WD) - Henry Pirker 2023 Summary .....	221
	7.17	Henry Pirker Annual Trends, 2013 to 2023.....	224
8		MILNER KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY .....	239
	8.1	Nitrogen Dioxide (NO <sub>2</sub> ) - Milner 2023 Summary .....	241
	8.2	Nitric Oxide (NO) - Milner 2023 Summary.....	244
	8.3	Oxides of Nitrogen (NO <sub>x</sub> ) - Milner 2023 Summary .....	245
	8.4	Particulate Matter (PM <sub>2.5</sub> ) - Milner 2023 Summary.....	246
	8.5	Wind Speed and Wind Direction (WS and WD) - Milner 2023 Summary .....	250
9		POPLAR KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY .....	253
	9.1	Poplar AQHI Calendar Plot for 2023 .....	255
	9.2	Sulphur Dioxide (SO <sub>2</sub> ) - Poplar 2023 Summary.....	256
	9.3	Total Reduced Sulphur (TRS) - Poplar 2023 Summary.....	260

	9.4	Nitrogen Dioxide (NO <sub>2</sub> ) - Poplar 2023 Summary .....	264
	9.5	Nitric Oxide (NO) - Poplar 2023 Summary .....	267
	9.6	Oxides of Nitrogen (NO <sub>x</sub> ) - Poplar 2023 Summary.....	268
	9.7	Ozone (O <sub>3</sub> ) - Poplar 2023 Summary.....	269
	9.8	Total Hydrocarbons (THC) - Poplar 2023 Summary.....	272
	9.9	Particulate Matter (PM <sub>2.5</sub> ) - Poplar 2023 Summary.....	275
	9.10	Temperature (ET) - Poplar 2023 Summary .....	279
	9.11	Wind Speed and Wind Direction (WS and WD) - Poplar 2023 Summary .....	280
10		SMOKY HEIGHTS KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY ....	283
	10.1	Sulphur Dioxide (SO <sub>2</sub> ) - Smoky Heights 2023 Summary .....	285
	10.2	Total Reduced Sulphur (TRS) - Smoky Heights 2023 Summary .....	289
	10.3	Particulate Matter (PM <sub>2.5</sub> ) - Smoky Heights 2023 Summary .....	293
	10.4	Temperature (ET) - Smoky Heights 2023 Summary.....	297
	10.5	Wind Speed and Wind Direction (WS and WD) - Smoky Heights 2023 Summary.....	298
	10.6	Smoky Heights Annual Trends, 2013 to 2023 .....	301
11		VALLEYVIEW KEY PARAMETERS - CONTINUOUS MONITORING DATA - 2023 SUMMARY.....	309
	11.1	Sulphur Dioxide (SO <sub>2</sub> ) - Valleyview 2023 Summary.....	311
	11.2	Hydrogen Sulphide (H <sub>2</sub> S) - Valleyview 2023 Summary .....	315
	11.3	Temperature (ET) - Valleyview 2023 Summary .....	319
	11.4	Relative Humidity (RH) - Valleyview 2023 Summary .....	320
	11.5	Wind Speed and Wind Direction (WS and WD) - Valleyview 2023 Summary .....	321
	11.6	Valleyview Annual Trends, 2013 to 2023 .....	324
12		PASSIVE MONITORING DATA - 2023 SUMMARY .....	331
	12.1	O <sub>3</sub> Monitoring Passive Data - 2023 Summary.....	331
	12.2	H <sub>2</sub> S Monitoring Passive Data - 2023 Summary .....	331
	12.3	NO <sub>2</sub> Monitoring Data - 2023 Summary.....	332
	12.4	SO <sub>2</sub> Monitoring Data - 2023 Summary.....	333
	12.5	Monitoring Passive Data Bubble Charts - 2023 Summary .....	335
13		DUSTFALL MONITORING DATA - 2023 SUMMARY .....	340
	13.1	Dustfall Monitoring Passive Data - 2023 Summary .....	340
14		END OF REPORT .....	342



March 31, 2024

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Edmonton, Alberta T5K 2J6

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

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

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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 annual summary report includes the operational summaries and hourly continuous monitoring results. This report was prepared by Dr. Kevin McCullum and reviewed by Mandeep Dhaliwal.

**Continuous Monitoring:**

Detailed Annual Summaries are included in the report for the following stations:

- Henry Pirker (Grande Prairie)
- Smoky Heights
- Beaverlodge
- Valleyview
- Donnelly (partial year, January to July 2023)
- Dunes
- Poplar
- Milner
- Fox Creek (partial year, October to December 2023)

**Table A. PAZA members with Facility Operating Approvals**

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

**Concentrations in excess of the Clean Air Regulations 2023 Summary:**

- 12, one-hour H<sub>2</sub>S readings above 10 ppb (H<sub>2</sub>S AAAQO)
- 2, 24-hour H<sub>2</sub>S readings above 3 ppb (H<sub>2</sub>S AAAQO)
- 13, one-hour ozone readings above 76 ppb (O<sub>3</sub> AAAQO)
- 2068, one-hour PM<sub>2.5</sub> reading above 80 µg/m<sup>3</sup> (PM<sub>2.5</sub> AAAQG), **original data**
- 2048, one-hour PM<sub>2.5</sub> reading above 80 µg/m<sup>3</sup> (PM<sub>2.5</sub> AAAQG), **T640 corrected data**
- 293, 24-hour PM<sub>2.5</sub> reading above 29 µg/m<sup>3</sup> (PM<sub>2.5</sub> AAAQO), **original data**
- 288, 24-hour PM<sub>2.5</sub> reading above 29 µg/m<sup>3</sup> (PM<sub>2.5</sub> AAAQO), **T640 corrected data**
  - Correction of T640 data has been shown in a separate column identified as “Corr.”
  - The corrections were applied to (no changes to Dunes or Smoky Heights):
    - Beaverlodge Aug 9 to Dec1 (firmware update occurred)
    - Fox Creek Oct 3 to Dec1 (firmware update occurred)
    - Henry Pirker Jan to Dec 1 (firmware update occurred)
    - Milner Aug 29 to Dec1 (firmware update occurred)
    - Poplar Sept 7 to Dec1 (firmware update occurred)

1-hr readings above the H<sub>2</sub>S AAAQO (10 ppb) was recorded as:

Site	Reference Number	Date	From MST	To MST	Average (ppb)	WS km/hr	WD degrees
Valleyview	412377	May 2, 2023	04:00	05:00	11.9	1.2	349
Valleyview	412377	May 2, 2023	06:00	07:00	10.5	2.4	263
Valleyview	412377	May 2, 2023	09:00	10:00	15.0	3.7	221
Valleyview	413020	May 13, 2023	10:00	11:00	15.3	3.2	164
Valleyview	413485	May 21, 2023	01:00	02:00	19.0	1.4	154
Valleyview	413485	May 21, 2023	02:00	03:00	93.1	2.9	324
Valleyview	413505	May 22, 2023	04:00	05:00	17.2	0.7	15
Valleyview	413505	May 22, 2023	12:00	13:00	79.9	2.9	345
Valleyview	413505	May 22, 2023	13:00	14:00	99.0	4.8	350
Valleyview	413505	May 22, 2023	14:00	15:00	100.1	2.3	10
Valleyview	413505	May 22, 2023	15:00	16:00	100.1	4.5	2
Valleyview	413505	May 22, 2023	16:00	17:00	22.3	4.7	29

24-hr readings above the daily H<sub>2</sub>S AAAQO (3 ppb) as:

Site	Reference Number	Date	Average (ppb)	WS km/hr	WD degrees
Valleyview	413485	May 21, 2023	5.7	2.8	272
Valleyview	413505	May 22, 2023	18.5	3.9	358

1-hr readings above the O<sub>3</sub> AAAQO (76 ppb) was recorded as:

Site	Reference Number	Date	From MST	To MST	Average (ppb)	WS km/hr	WD degrees
Beaverlodge	413246	May 20, 2023	15:00	16:00	78.2	9.8	87
Beaverlodge	413246	May 20, 2023	16:00	17:00	80.7	13.8	94
Henry Pirker	412614	May 5, 2023	15:00	16:00	78.4	24.9	120
Henry Pirker	413249	May 15, 2023	17:00	18:00	83.9	2.8	13
Henry Pirker	413249	May 15, 2023	18:00	19:00	86.8	3.4	50
Henry Pirker	413249	May 15, 2023	19:00	20:00	82.4	5.6	123
Poplar	413250	May 15, 2023	16:00	17:00	80.8	1.4	76
Poplar	413250	May 15, 2023	17:00	18:00	81.7	6.5	38
Poplar	413250	May 15, 2023	18:00	19:00	78.3	5.4	36

Poplar	413250	May 20, 2023	12:00	13:00	79.1	2.2	112
Poplar	413250	May 20, 2023	13:00	14:00	89.0	3.1	86
Poplar	413250	May 20, 2023	14:00	15:00	82.2	9.7	112
Poplar	413250	May 20, 2023	15:00	16:00	82.2	11.5	116

1-hr readings above the PM<sub>2.5</sub> AAAQG (80 µg/m<sup>3</sup>) was recorded as:

Note: correction of T640 data has been updated in "Corr." column with the original data shown in the "Orig." column, the correction that dropped average below AAAQG has been highlighted (no changes were made to Dunes or Smoky Heights)

Site	Reference Number	Date	From MST	To MST	Orig. µg/m <sup>3</sup>	Corr. µg/m <sup>3</sup>	WS km/hr	WD degrees
Beaverlodge	408633	Jan-13-2023	01:00	02:00	258	258.0	10.5	24
Beaverlodge	408633	Jan-13-2023	02:00	03:00	84.7	84.7	5.1	229
Beaverlodge	412612	May-05-2023	09:00	10:00	87.4	87.4	24.9	109
Beaverlodge	412612	May-05-2023	10:00	11:00	127.7	127.7	29.8	106
Beaverlodge	412612	May-05-2023	11:00	12:00	135.5	135.5	31.5	111
Beaverlodge	412612	May-05-2023	12:00	13:00	347.8	347.8	30.2	117
Beaverlodge	412612	May-05-2023	13:00	14:00	125.5	125.5	36.1	122
Beaverlodge	412612	May-05-2023	16:00	17:00	110.5	110.5	39.9	119
Beaverlodge	412612	May-05-2023	17:00	18:00	229.2	229.2	39.2	125
Beaverlodge	412612	May-05-2023	18:00	19:00	111.5	111.5	36.5	123
Beaverlodge	412612	May-06-2023	00:00	01:00	105.4	105.4	25.1	113
Beaverlodge	412612	May-06-2023	01:00	02:00	95.4	95.4	24.5	106
Beaverlodge	412612	May-06-2023	02:00	03:00	104.1	104.1	21.9	96
Beaverlodge	412612	May-06-2023	03:00	04:00	113.2	113.2	23.4	94
Beaverlodge	412612	May-06-2023	04:00	05:00	154.6	154.6	21.7	90
Beaverlodge	412612	May-06-2023	05:00	06:00	138.3	138.3	22.3	87
Beaverlodge	412612	May-06-2023	06:00	07:00	122.7	122.7	25.9	87
Beaverlodge	412612	May-06-2023	07:00	08:00	155.5	155.6	26.7	93
Beaverlodge	412612	May-06-2023	08:00	09:00	113.1	113.1	28.8	95
Beaverlodge	412612	May-06-2023	09:00	10:00	129.7	129.7	34.2	100
Beaverlodge	412612	May-06-2023	10:00	11:00	114.8	114.8	35.4	107
Beaverlodge	412612	May-06-2023	18:00	19:00	102.8	102.8	35.3	106
Beaverlodge	412612	May-06-2023	19:00	20:00	105	105.0	33.5	111
Beaverlodge	412612	May-06-2023	20:00	21:00	117.6	117.6	31	109
Beaverlodge	412612	May-06-2023	21:00	22:00	96	96.0	22.8	99
Beaverlodge	412612	May-07-2023	09:00	10:00	122.6	122.6	25.2	115
Beaverlodge	412612	May-07-2023	10:00	11:00	91.1	91.1	23.7	132
Beaverlodge	412828	May-14-2023	19:00	20:00	85.4	85.4	11.9	91
Beaverlodge	412828	May-14-2023	20:00	21:00	83.9	83.9	7.9	74
Beaverlodge	412828	May-14-2023	22:00	23:00	116.1	116.1	8.7	77
Beaverlodge	412828	May-14-2023	23:00	00:00	271.5	271.5	8.5	83
Beaverlodge	413246	May-15-2023	00:00	01:00	322.1	322.1	5.3	88
Beaverlodge	413246	May-15-2023	01:00	02:00	157.2	157.2	5.7	91
Beaverlodge	413246	May-15-2023	02:00	03:00	115.2	115.2	4.8	101
Beaverlodge	413246	May-15-2023	03:00	04:00	118.9	118.9	1.8	185
Beaverlodge	413246	May-15-2023	04:00	05:00	122.3	122.3	4	260
Beaverlodge	413246	May-15-2023	05:00	06:00	119.4	119.4	2.6	33
Beaverlodge	413246	May-15-2023	06:00	07:00	117.4	117.4	3.4	40
Beaverlodge	413246	May-15-2023	07:00	08:00	120.5	120.5	0.5	144
Beaverlodge	413246	May-15-2023	08:00	09:00	113.4	113.4	2	210
Beaverlodge	413246	May-15-2023	09:00	10:00	119.8	119.8	0.3	283
Beaverlodge	413246	May-15-2023	10:00	11:00	124	124.0	1.2	15
Beaverlodge	413246	May-15-2023	11:00	12:00	134.4	134.4	1.6	31
Beaverlodge	413246	May-15-2023	12:00	13:00	154.5	154.5	1.1	355
Beaverlodge	413246	May-15-2023	13:00	14:00	178.9	178.9	3.3	56
Beaverlodge	413246	May-15-2023	14:00	15:00	108.7	108.7	3.9	116
Beaverlodge	413246	May-15-2023	21:00	22:00	134.8	134.8	5.8	328
Beaverlodge	413246	May-15-2023	22:00	23:00	297.1	297.2	27	356
Beaverlodge	413246	May-15-2023	23:00	00:00	197.9	197.9	21.3	357
Beaverlodge	413246	May-16-2023	00:00	01:00	272.8	272.8	13.1	357
Beaverlodge	413246	May-16-2023	01:00	02:00	328.8	328.8	7.9	330



Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	413246	May-16-2023	09:00	10:00	86.5	86.5	6.5	24
Beaverlodge	413246	May-16-2023	10:00	11:00	96.6	96.6	calibration	calibration
Beaverlodge	413246	May-16-2023	11:00	12:00	98.3	98.3	1.8	272
Beaverlodge	413246	May-16-2023	16:00	17:00	81.3	81.3	16.3	221
Beaverlodge	413246	May-16-2023	17:00	18:00	88.9	88.9	16.2	191
Beaverlodge	413246	May-16-2023	21:00	22:00	84.5	84.5	5.2	95
Beaverlodge	413246	May-16-2023	22:00	23:00	108.2	108.2	5.3	69
Beaverlodge	413246	May-16-2023	23:00	00:00	119.9	120.0	6.2	60
Beaverlodge	413246	May-17-2023	00:00	01:00	133.1	133.1	5.1	56
Beaverlodge	413246	May-17-2023	01:00	02:00	140.8	140.9	3.3	76
Beaverlodge	413246	May-17-2023	02:00	03:00	150.4	150.4	3.6	84
Beaverlodge	413246	May-17-2023	03:00	04:00	166.9	166.9	3.6	111
Beaverlodge	413246	May-17-2023	04:00	05:00	136	136.0	2.3	121
Beaverlodge	413246	May-17-2023	05:00	06:00	135.7	135.7	3.9	59
Beaverlodge	413246	May-17-2023	06:00	07:00	93.4	93.4	2.3	81
Beaverlodge	413246	May-17-2023	07:00	08:00	105	105.0	1.1	160
Beaverlodge	413246	May-17-2023	08:00	09:00	81.9	82.0	2.4	180
Beaverlodge	413246	May-17-2023	11:00	12:00	111.2	111.2	6.7	125
Beaverlodge	413246	May-17-2023	12:00	13:00	134.2	134.2	10.8	110
Beaverlodge	413246	May-17-2023	13:00	14:00	119.6	119.6	10.5	80
Beaverlodge	413246	May-17-2023	18:00	19:00	82.5	82.5	3	107
Beaverlodge	413246	May-17-2023	22:00	23:00	88.3	88.3	7	80
Beaverlodge	413246	May-18-2023	00:00	01:00	105.7	105.7	8.7	92
Beaverlodge	413246	May-18-2023	01:00	02:00	211.5	211.5	7.6	82
Beaverlodge	413246	May-18-2023	02:00	03:00	219.4	219.4	7.5	71
Beaverlodge	413246	May-18-2023	03:00	04:00	170.6	170.6	8	66
Beaverlodge	413246	May-18-2023	04:00	05:00	170.1	170.2	4.4	72
Beaverlodge	413246	May-18-2023	05:00	06:00	197.3	197.3	2.7	171
Beaverlodge	413246	May-18-2023	06:00	07:00	232	232.0	1.9	228
Beaverlodge	413246	May-18-2023	07:00	08:00	302.2	302.2	2.9	200
Beaverlodge	413246	May-18-2023	08:00	09:00	349.9	349.9	2.5	212
Beaverlodge	413246	May-18-2023	09:00	10:00	333.4	333.4	1.6	185
Beaverlodge	413246	May-18-2023	10:00	11:00	307.9	307.9	3.2	138
Beaverlodge	413246	May-18-2023	11:00	12:00	286.1	286.1	6.4	107
Beaverlodge	413246	May-18-2023	12:00	13:00	310.7	310.7	10.1	102
Beaverlodge	413246	May-18-2023	13:00	14:00	217.7	217.7	15	98
Beaverlodge	413246	May-18-2023	14:00	15:00	231.9	232.0	19.5	115
Beaverlodge	413246	May-18-2023	15:00	16:00	260.8	260.8	18.1	114
Beaverlodge	413246	May-18-2023	16:00	17:00	261.9	261.9	15.9	109
Beaverlodge	413246	May-18-2023	17:00	18:00	169.5	169.5	14.2	106
Beaverlodge	413246	May-18-2023	18:00	19:00	147.4	147.4	12.4	94
Beaverlodge	413246	May-18-2023	19:00	20:00	154.2	154.2	12.6	87
Beaverlodge	413246	May-18-2023	20:00	21:00	202.4	202.4	9.2	70
Beaverlodge	413246	May-18-2023	21:00	22:00	297.5	297.5	9	71
Beaverlodge	413246	May-18-2023	22:00	23:00	348.1	348.1	7.9	76
Beaverlodge	413246	May-18-2023	23:00	00:00	355.2	355.2	4.1	93
Beaverlodge	413246	May-19-2023	00:00	01:00	345.1	345.1	3.9	50
Beaverlodge	413246	May-19-2023	01:00	02:00	354	354.0	0.9	185
Beaverlodge	413246	May-19-2023	02:00	03:00	371.9	371.9	0.3	224
Beaverlodge	413246	May-19-2023	03:00	04:00	391.1	391.1	3.3	4
Beaverlodge	413246	May-19-2023	04:00	05:00	374.8	374.8	0.6	238
Beaverlodge	413246	May-19-2023	05:00	06:00	345.2	345.2	2.9	87
Beaverlodge	413246	May-19-2023	06:00	07:00	290.5	290.5	2.8	118
Beaverlodge	413246	May-19-2023	07:00	08:00	248.6	248.6	2.7	83
Beaverlodge	413246	May-19-2023	08:00	09:00	120.3	120.3	7.2	199
Beaverlodge	413246	May-19-2023	18:00	19:00	819.2	819.3	16.3	332
Beaverlodge	413246	May-19-2023	19:00	20:00	993	993.0	14.3	330
Beaverlodge	413246	May-19-2023	20:00	21:00	993	993.0	12.3	346
Beaverlodge	413246	May-19-2023	21:00	22:00	883.1	883.1	10.6	332
Beaverlodge	413246	May-19-2023	22:00	23:00	556.5	556.5	10.9	338

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	413246	May-19-2023	23:00	00:00	352	352.0	7.2	325
Beaverlodge	413246	May-20-2023	08:00	09:00	252.9	252.9	3	5
Beaverlodge	413246	May-20-2023	09:00	10:00	231.6	231.6	5.3	306
Beaverlodge	413246	May-20-2023	10:00	11:00	238.2	238.2	3	281
Beaverlodge	413246	May-20-2023	11:00	12:00	289.1	289.1	2.6	191
Beaverlodge	413246	May-20-2023	12:00	13:00	341.9	341.9	1.7	7
Beaverlodge	413246	May-20-2023	13:00	14:00	273.3	273.3	3.3	7
Beaverlodge	413246	May-20-2023	14:00	15:00	256.3	256.3	9.8	31
Beaverlodge	413246	May-20-2023	15:00	16:00	235.6	235.6	9.8	87
Beaverlodge	413246	May-20-2023	16:00	17:00	168.3	168.3	13.8	94
Beaverlodge	413246	May-20-2023	17:00	18:00	125.5	125.5	15.4	94
Beaverlodge	413246	May-20-2023	18:00	19:00	117.1	117.1	18.7	115
Beaverlodge	413246	May-20-2023	19:00	20:00	133.1	133.1	15.8	117
Beaverlodge	413246	May-21-2023	05:00	06:00	87	87.0	6.5	51
Beaverlodge	413603	May-22-2023	14:00	15:00	108.4	108.4	6.3	355
Beaverlodge	414002	May-30-2023	08:00	09:00	83	83.0	7.7	2
Beaverlodge	414002	May-30-2023	09:00	10:00	292.6	292.7	4.1	38
Beaverlodge	414002	May-30-2023	11:00	12:00	218.4	218.4	4.8	54
Beaverlodge	414464	Jun-07-2023	14:00	15:00	85.3	85.3	17.1	302
Beaverlodge	414464	Jun-07-2023	15:00	16:00	90.9	90.9	12.1	331
Beaverlodge	414464	Jun-10-2023	03:00	04:00	301.7	301.7	6.9	300
Beaverlodge	414464	Jun-10-2023	04:00	05:00	243.6	243.6	7.4	257
Beaverlodge	414464	Jun-10-2023	05:00	06:00	274.6	274.6	1.7	345
Beaverlodge	414464	Jun-10-2023	06:00	07:00	206.7	206.7	1.7	189
Beaverlodge	414786	Jun-12-2023	06:00	07:00	152.3	152.3	2.4	58
Beaverlodge	414786	Jun-12-2023	07:00	08:00	147.2	147.2	1.9	65
Beaverlodge	414786	Jun-12-2023	16:00	17:00	118.1	118.1	11.1	288
Beaverlodge	414786	Jun-13-2023	00:00	01:00	82	82.0	2.5	79
Beaverlodge	414786	Jun-14-2023	10:00	11:00	283.8	283.8	21.7	321
Beaverlodge	414786	Jun-14-2023	11:00	12:00	330.1	330.1	16.3	331
Beaverlodge	414786	Jun-14-2023	12:00	13:00	333.9	333.9	15.9	312
Beaverlodge	414786	Jun-14-2023	13:00	14:00	298.1	298.1	15.1	308
Beaverlodge	414786	Jun-14-2023	14:00	15:00	174.3	174.3	11.3	307
Beaverlodge	414786	Jun-14-2023	15:00	16:00	134.5	134.5	8.6	323
Beaverlodge	416559	Jul-10-2023	10:00	11:00	119	119.0		
Beaverlodge	416559	Jul-10-2023	11:00	12:00	147.6	147.6		
Beaverlodge	416559	Jul-10-2023	12:00	13:00	172.7	172.7		
Beaverlodge	416559	Jul-10-2023	13:00	14:00	193.7	193.7		
Beaverlodge	416559	Jul-10-2023	14:00	15:00	169.1	169.1		
Beaverlodge	416559	Jul-10-2023	15:00	16:00	135.1	135.1		
Beaverlodge	416559	Jul-10-2023	16:00	17:00	144.1	144.1		
Beaverlodge	416559	Jul-10-2023	17:00	18:00	144.1	144.1		
Beaverlodge	416559	Jul-10-2023	18:00	19:00	110.9	110.9		
Beaverlodge	416559	Jul-12-2023	04:00	05:00	82.7	82.7	2.3	348
Beaverlodge	416559	Jul-12-2023	05:00	06:00	98.9	98.9	4.4	338
Beaverlodge	416559	Jul-12-2023	06:00	07:00	95.3	95.3	2.8	340
Beaverlodge	416559	Jul-12-2023	07:00	08:00	86.9	86.9	4	263
Beaverlodge	416559	Jul-12-2023	08:00	09:00	92.4	92.4	4.6	235
Beaverlodge	416559	Jul-12-2023	09:00	10:00	91.4	91.4	2.7	245
Beaverlodge	416559	Jul-12-2023	10:00	11:00	80.5	80.5	7.4	293
Beaverlodge	416559	Jul-12-2023	17:00	18:00	89	89.0	13.9	234
Beaverlodge	416559	Jul-12-2023	18:00	19:00	144.5	144.5	6.9	360
Beaverlodge	416559	Jul-12-2023	19:00	20:00	163.5	163.5	7.3	31
Beaverlodge	416559	Jul-12-2023	20:00	21:00	150.2	150.2	4.2	353
Beaverlodge	416559	Jul-12-2023	21:00	22:00	146.7	146.7	4.1	55
Beaverlodge	416559	Jul-12-2023	22:00	23:00	147.3	147.3	4.7	302
Beaverlodge	416559	Jul-13-2023	23:00	00:00	135.4	135.4	9.6	304
Beaverlodge	416559	Jul-13-2023	00:00	01:00	130.9	130.9	3.4	334
Beaverlodge	416559	Jul-13-2023	01:00	02:00	135.1	135.1	4.9	324
Beaverlodge	416559	Jul-13-2023	02:00	03:00	142.3	142.3	1.3	312

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	416559	Jul-13-2023	03:00	04:00	163.2	163.2	6.4	327
Beaverlodge	416559	Jul-13-2023	04:00	05:00	151.2	151.2	12.5	322
Beaverlodge	416559	Jul-13-2023	05:00	06:00	113.7	113.7	15.8	321
Beaverlodge	416559	Jul-15-2023	13:00	14:00	100.8	100.8	8.3	176
Beaverlodge	416559	Jul-15-2023	14:00	15:00	91.6	91.6	6.5	199
Beaverlodge	416559	Jul-15-2023	15:00	16:00	104.4	104.4	7.7	230
Beaverlodge	416559	Jul-15-2023	16:00	17:00	214.6	214.6	10.2	238
Beaverlodge	416559	Jul-15-2023	17:00	18:00	240.4	240.4	7.7	258
Beaverlodge	416559	Jul-15-2023	18:00	19:00	192.3	192.3	6.1	264
Beaverlodge	416559	Jul-15-2023	19:00	20:00	168.8	168.8	3.7	285
Beaverlodge	416559	Jul-15-2023	20:00	21:00	166.7	166.7	0.1	300
Beaverlodge	416559	Jul-15-2023	21:00	22:00	161.4	161.4	1	2
Beaverlodge	416559	Jul-15-2023	22:00	23:00	159.6	159.6	1.1	335
Beaverlodge	416559	Jul-16-2023	23:00	00:00	161.2	161.2	6	44
Beaverlodge	416559	Jul-16-2023	00:00	01:00	163.1	163.1	5.1	52
Beaverlodge	416559	Jul-16-2023	01:00	02:00	154.2	154.2	2.2	174
Beaverlodge	416559	Jul-16-2023	02:00	03:00	139.6	139.6	2.3	236
Beaverlodge	416559	Jul-16-2023	03:00	04:00	137.3	137.3	5.4	50
Beaverlodge	416559	Jul-16-2023	04:00	05:00	123.1	123.1	2.4	93
Beaverlodge	416559	Jul-16-2023	05:00	06:00	107.6	107.6	0.5	101
Beaverlodge	416559	Jul-16-2023	06:00	07:00	113.2	113.2	3.9	50
Beaverlodge	416559	Jul-16-2023	07:00	08:00	109	109.0	3	202
Beaverlodge	416559	Jul-16-2023	08:00	09:00	104	104.0	3.5	230
Beaverlodge	416559	Jul-16-2023	09:00	10:00	101.8	101.8	1.9	313
Beaverlodge	416559	Jul-16-2023	10:00	11:00	104.2	104.2	3.1	251
Beaverlodge	416559	Jul-16-2023	11:00	12:00	105	105.0	3.3	172
Beaverlodge	416559	Jul-16-2023	12:00	13:00	112.2	112.2	2.7	117
Beaverlodge	416559	Jul-16-2023	13:00	14:00	114	114.0	3	127
Beaverlodge	416559	Jul-16-2023	14:00	15:00	103.5	103.5	0.9	80
Beaverlodge	416559	Jul-16-2023	15:00	16:00	103.4	103.4	4.1	69
Beaverlodge	416559	Jul-16-2023	16:00	17:00	119.6	119.6	12.9	100
Beaverlodge	416559	Jul-16-2023	17:00	18:00	102.2	102.2	14.4	129
Beaverlodge	416559	Jul-16-2023	18:00	19:00	87.4	87.4	4.8	183
Beaverlodge	416952	Jul-20-2023	10:00	11:00	117.4	117.4	4.7	174
Beaverlodge	416952	Jul-20-2023	11:00	12:00	196.5	196.5	7.9	180
Beaverlodge	416952	Jul-20-2023	12:00	13:00	219.5	219.5	5.2	106
Beaverlodge	416952	Jul-20-2023	13:00	14:00	245.3	245.3	5.1	142
Beaverlodge	416952	Jul-20-2023	14:00	15:00	304.4	304.4	6.6	85
Beaverlodge	416952	Jul-20-2023	15:00	16:00	285.1	285.1	8.5	115
Beaverlodge	416952	Jul-20-2023	16:00	17:00	255.3	255.3	11.5	101
Beaverlodge	416952	Jul-20-2023	17:00	18:00	230.8	230.8	10.4	96
Beaverlodge	416952	Jul-20-2023	18:00	19:00	234.3	234.3	9.3	94
Beaverlodge	416952	Jul-20-2023	19:00	20:00	244.7	244.7	7.5	83
Beaverlodge	416952	Jul-20-2023	20:00	21:00	287.5	287.5	6.7	79
Beaverlodge	416952	Jul-20-2023	21:00	22:00	303.8	303.8	7.5	71
Beaverlodge	416952	Jul-20-2023	22:00	23:00	299.5	299.5	8.3	66
Beaverlodge	416952	Jul-21-2023	23:00	00:00	287.3	287.3	8.7	66
Beaverlodge	416952	Jul-21-2023	00:00	01:00	256.9	256.9	8.3	69
Beaverlodge	416952	Jul-21-2023	01:00	02:00	222.6	222.6	8.6	71
Beaverlodge	416952	Jul-21-2023	02:00	03:00	202.4	202.4	8.5	73
Beaverlodge	416952	Jul-21-2023	03:00	04:00	185.6	185.6	7	82
Beaverlodge	416952	Jul-21-2023	04:00	05:00	169.3	169.3	5.1	61
Beaverlodge	416952	Jul-21-2023	05:00	06:00	150.6	150.6	3.6	328
Beaverlodge	416952	Jul-21-2023	06:00	07:00	146	146.0	15	325
Beaverlodge	416952	Jul-21-2023	07:00	08:00	136.9	136.9	10.5	17
Beaverlodge	416952	Jul-21-2023	08:00	09:00	127.1	127.1	7.4	24
Beaverlodge	416952	Jul-21-2023	09:00	10:00	159.1	159.1	3.3	20
Beaverlodge	416952	Jul-21-2023	10:00	11:00	221.8	221.8	5.7	45
Beaverlodge	416952	Jul-21-2023	11:00	12:00	200.8	200.8	9.4	102
Beaverlodge	416952	Jul-21-2023	12:00	13:00	196.7	196.7	12.4	105

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	416952	Jul-21-2023	14:00	15:00	149.9	149.9	15.4	93
Beaverlodge	416952	Jul-21-2023	15:00	16:00	179.2	179.2	18.5	87
Beaverlodge	416952	Jul-21-2023	16:00	17:00	148.1	148.1	18.9	79
Beaverlodge	416952	Jul-21-2023	17:00	18:00	124.5	124.5	18.2	77
Beaverlodge	416952	Jul-21-2023	18:00	19:00	107.3	107.3	13.6	52
Beaverlodge	416952	Jul-22-2023	13:00	14:00	110.5	110.5	3	97
Beaverlodge	416952	Jul-22-2023	14:00	15:00	82.9	82.9	3.1	103
Beaverlodge	416952	Jul-22-2023	16:00	17:00	125.8	125.8	6.8	163
Beaverlodge	416952	Jul-22-2023	17:00	18:00	224.9	224.9	4.8	168
Beaverlodge	416952	Jul-22-2023	18:00	19:00	221	221.0	6.1	266
Beaverlodge	416952	Jul-22-2023	19:00	20:00	212.3	212.3	6.5	265
Beaverlodge	417317	Jul-24-2023	13:00	14:00	104	104.0	9	352
Beaverlodge	417317	Jul-24-2023	14:00	15:00	98	98.0	8.9	355
Beaverlodge	417317	Jul-24-2023	15:00	16:00	92	92.0	7.1	343
Beaverlodge	417317	Jul-24-2023	16:00	17:00	88.1	88.1	7.6	319
Beaverlodge	417317	Jul-24-2023	17:00	18:00	82.1	82.1	6.9	319
Beaverlodge	417317	Jul-27-2023	20:00	21:00	87.3	87.3	6.7	76
Beaverlodge	417317	Jul-29-2023	03:00	04:00	114	114.0	3.5	140
Beaverlodge	417317	Jul-29-2023	04:00	05:00	106.5	106.5	2	115
Beaverlodge	417317	Jul-29-2023	05:00	06:00	88.2	88.2	1.8	164
Beaverlodge	418444	Aug-24-2023	10:00	11:00	101	99.2	6.2	299
Beaverlodge	418444	Aug-24-2023	11:00	12:00	110.9	109.0	6.6	306
Beaverlodge	418444	Aug-24-2023	12:00	13:00	107.8	105.9	5.4	271
Beaverlodge	418444	Aug-24-2023	13:00	14:00	99.3	97.4	5.8	262
Beaverlodge	418872	Aug-28-2023	03:00	04:00	83.3	81.4	3.6	101
Beaverlodge	418872	Aug-28-2023	04:00	05:00	90.3	88.5	3.5	75
Beaverlodge	418872	Aug-28-2023	05:00	06:00	95.6	93.7	3.7	83
Beaverlodge	418872	Aug-28-2023	06:00	07:00	99.4	97.6	3.7	103
Beaverlodge	418872	Aug-28-2023	07:00	08:00	94.8	92.9	4.1	122
Beaverlodge	418872	Aug-28-2023	08:00	09:00	85.2	83.3	2.8	125
Beaverlodge	418872	Aug-28-2023	14:00	15:00	99.2	98.3	12.8	253
Beaverlodge	418872	Aug-28-2023	15:00	16:00	122.8	121.9	15.2	256
Beaverlodge	418872	Aug-28-2023	16:00	17:00	110.8	109.9	11.7	254
Beaverlodge	418872	Aug-28-2023	17:00	18:00	112.3	111.3	6.8	240
Beaverlodge	418872	Aug-28-2023	18:00	19:00	118.3	117.4	8	266
Beaverlodge	418872	Aug-28-2023	19:00	20:00	119.6	118.7	5	286
Beaverlodge	418872	Aug-28-2023	20:00	21:00	115	114.1	2.3	69
Beaverlodge	418872	Aug-28-2023	21:00	22:00	110.9	110.0	3.2	81
Beaverlodge	418872	Aug-28-2023	22:00	23:00	95	93.2	4.8	64
Beaverlodge	418872	Aug-29-2023	23:00	00:00	80.1	78.3	2.4	104
Beaverlodge	418872	Aug-29-2023	16:00	17:00	81.3	80.3	7.6	48
Beaverlodge	418872	Aug-29-2023	17:00	18:00	121.1	120.1	6.3	38
Beaverlodge	418872	Aug-29-2023	18:00	19:00	129.3	128.4	4.5	61
Beaverlodge	418872	Aug-29-2023	19:00	20:00	120.8	119.9	5.1	46
Beaverlodge	418872	Aug-29-2023	20:00	21:00	122.5	121.6	3.8	5
Beaverlodge	418872	Aug-29-2023	21:00	22:00	122.8	121.0	3.3	0
Beaverlodge	418872	Aug-29-2023	22:00	23:00	118.2	116.3	5.6	359
Beaverlodge	418872	Aug-30-2023	23:00	00:00	117.6	115.8	3.9	349
Beaverlodge	418872	Aug-30-2023	00:00	01:00	112.9	111.0	1.6	73
Beaverlodge	418872	Aug-30-2023	01:00	02:00	117.2	115.3	4.1	55
Beaverlodge	418872	Aug-30-2023	02:00	03:00	100.8	98.9	4.7	48
Beaverlodge	418872	Aug-30-2023	03:00	04:00	94.8	92.9	2.4	75
Beaverlodge	418872	Aug-30-2023	04:00	05:00	88	86.2	5.5	38
Beaverlodge	418872	Aug-30-2023	06:00	07:00	82.1	80.2	3.3	28
Beaverlodge	418872	Aug-30-2023	07:00	08:00	85.7	83.9	2	245
Beaverlodge	418872	Aug-30-2023	08:00	09:00	82.9	81.1	2.2	216
Beaverlodge	418872	Aug-30-2023	09:00	10:00	92.8	91.0	2.9	188
Beaverlodge	418872	Aug-30-2023	10:00	11:00	107	105.2	7.4	275
Beaverlodge	418872	Aug-30-2023	11:00	12:00	117.8	116.9	15.7	282
Beaverlodge	418872	Aug-30-2023	12:00	13:00	110.2	109.3	18.4	282

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	418872	Aug-30-2023	13:00	14:00	102.9	102.0	19.5	283
Beaverlodge	418872	Aug-30-2023	14:00	15:00	102.6	101.7	20.1	272
Beaverlodge	418872	Aug-30-2023	15:00	16:00	92.7	91.8	23.2	274
Beaverlodge	418872	Sep-01-2023	20:00	21:00	86.7	85.8	24.8	270
Beaverlodge	418872	Sep-01-2023	21:00	22:00	98.7	96.8	17.9	269
Beaverlodge	418872	Sep-02-2023	02:00	03:00	101.4	99.5	10.8	296
Beaverlodge	418872	Sep-02-2023	03:00	04:00	131.9	130.0	15	299
Beaverlodge	418872	Sep-02-2023	11:00	12:00	82.6	80.7	19.1	303
Beaverlodge	418872	Sep-02-2023	12:00	13:00	81.9	80.0	18.4	291
Beaverlodge	418872	Sep-02-2023	19:00	20:00	130.2	128.4	20.2	257
Beaverlodge	418872	Sep-02-2023	20:00	21:00	113.9	112.0	6.7	244
Beaverlodge	418872	Sep-02-2023	21:00	22:00	83.4	81.5	8.1	284
Beaverlodge	418872	Sep-02-2023	22:00	23:00	89.9	88.0	3.6	280
Beaverlodge	418872	Sep-03-2023	23:00	00:00	105.6	103.8	4.5	211
Beaverlodge	418872	Sep-03-2023	00:00	01:00	106.3	104.4	1.9	83
Beaverlodge	418872	Sep-03-2023	01:00	02:00	112.5	110.6	3.9	34
Beaverlodge	418872	Sep-03-2023	02:00	03:00	149.3	147.4	5.3	298
Beaverlodge	418872	Sep-03-2023	03:00	04:00	150.7	148.8	9.2	259
Beaverlodge	418872	Sep-03-2023	04:00	05:00	353.4	351.5	12.9	250
Beaverlodge	418872	Sep-03-2023	05:00	06:00	261.6	259.7	13.1	223
Beaverlodge	418872	Sep-03-2023	06:00	07:00	218	216.2	8.9	228
Beaverlodge	418872	Sep-03-2023	07:00	08:00	238.2	236.3	5.2	222
Beaverlodge	418872	Sep-03-2023	08:00	09:00	185.9	184.0	10.1	245
Beaverlodge	418872	Sep-03-2023	09:00	10:00	180.7	178.9	17	252
Beaverlodge	418872	Sep-03-2023	10:00	11:00	164.6	162.8	19.8	269
Beaverlodge	418872	Sep-03-2023	12:00	13:00	147.8	145.9	17.3	324
Beaverlodge	418872	Sep-03-2023	13:00	14:00	315.8	313.9	16	343
Beaverlodge	418872	Sep-03-2023	14:00	15:00	294.2	292.4	15.5	1
Beaverlodge	418872	Sep-03-2023	15:00	16:00	267.8	265.9	16.6	28
Beaverlodge	418872	Sep-03-2023	16:00	17:00	256.2	254.3	11.9	35
Beaverlodge	418872	Sep-03-2023	17:00	18:00	276.3	274.4	5.9	28
Beaverlodge	418872	Sep-03-2023	18:00	19:00	283.3	281.5	6.5	352
Beaverlodge	418872	Sep-03-2023	19:00	20:00	216.9	215.1	14.4	1
Beaverlodge	419196	Sep-06-2023	10:00	11:00	83.2	81.3	4.2	188
Beaverlodge	419196	Sep-06-2023	11:00	12:00	82.9	81.0	9.4	246
Beaverlodge	419625	Sep-11-2023	11:00	12:00	232.8	231.9	18.1	280
Beaverlodge	419625	Sep-11-2023	12:00	13:00	266.2	265.2	15.1	274
Beaverlodge	419625	Sep-11-2023	13:00	14:00	199.2	198.3	14.3	262
Beaverlodge	419625	Sep-11-2023	14:00	15:00	94.9	94.0	21.2	275
Beaverlodge	419625	Sep-14-2023	05:00	06:00	116.8	115.0	2.9	82
Beaverlodge	419625	Sep-14-2023	06:00	07:00	125.3	123.5	3.6	62
Beaverlodge	419625	Sep-14-2023	07:00	08:00	108.5	106.6	5.4	44
Beaverlodge	419625	Sep-14-2023	08:00	09:00	91.3	89.5	3.9	74
Beaverlodge	419625	Sep-15-2023	21:00	22:00	153.5	151.6	13.8	325
Beaverlodge	419625	Sep-15-2023	22:00	23:00	308.3	306.5	8.1	354
Beaverlodge	419625	Sep-16-2023	23:00	00:00	382	380.2	8.9	322
Beaverlodge	419625	Sep-16-2023	00:00	01:00	422.3	420.4	12.5	311
Beaverlodge	419625	Sep-16-2023	01:00	02:00	428.4	426.5	7.3	299
Beaverlodge	419625	Sep-16-2023	02:00	03:00	430.2	428.4	3.7	224
Beaverlodge	419625	Sep-16-2023	03:00	04:00	435.7	433.9	5.2	255
Beaverlodge	419625	Sep-16-2023	04:00	05:00	437.3	435.4	5.8	281
Beaverlodge	419625	Sep-16-2023	05:00	06:00	438.5	436.7	4	292
Beaverlodge	419625	Sep-16-2023	06:00	07:00	482	480.1	6.5	278
Beaverlodge	419625	Sep-16-2023	07:00	08:00	492.3	490.4	1.9	55
Beaverlodge	419625	Sep-16-2023	08:00	09:00	499.1	497.2	2.5	91
Beaverlodge	419625	Sep-16-2023	09:00	10:00	548.8	547.0	5.5	156
Beaverlodge	419625	Sep-16-2023	10:00	11:00	489.4	487.6	5.6	160
Beaverlodge	419625	Sep-16-2023	11:00	12:00	410.6	408.8	5.2	162
Beaverlodge	419625	Sep-16-2023	12:00	13:00	313.5	311.7	2.2	187
Beaverlodge	419625	Sep-16-2023	13:00	14:00	227.5	225.7	2.6	243

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	419625	Sep-16-2023	14:00	15:00	197.2	196.3	1.8	112
Beaverlodge	419625	Sep-16-2023	15:00	16:00	181.8	180.9	2.6	91
Beaverlodge	419625	Sep-16-2023	16:00	17:00	180.8	179.9	10.6	140
Beaverlodge	419625	Sep-16-2023	17:00	18:00	210.7	208.9	9.8	124
Beaverlodge	419625	Sep-16-2023	18:00	19:00	193.6	191.8	9	113
Beaverlodge	419625	Sep-16-2023	19:00	20:00	188.6	186.7	5.5	73
Beaverlodge	419625	Sep-16-2023	20:00	21:00	238.2	236.3	6.1	70
Beaverlodge	419625	Sep-16-2023	21:00	22:00	285.7	283.8	5.8	1
Beaverlodge	419625	Sep-16-2023	22:00	23:00	297.1	295.3	1.9	301
Beaverlodge	419625	Sep-17-2023	23:00	00:00	245	243.2	15.7	312
Beaverlodge	419625	Sep-17-2023	00:00	01:00	230.1	228.3	9.6	340
Beaverlodge	419625	Sep-17-2023	01:00	02:00	194.9	193.1	10	321
Beaverlodge	419625	Sep-17-2023	02:00	03:00	196.4	194.6	7	298
Beaverlodge	419625	Sep-17-2023	03:00	04:00	195	193.1	3.6	21
Beaverlodge	419625	Sep-17-2023	04:00	05:00	194.9	193.0	1.4	124
Beaverlodge	419625	Sep-17-2023	05:00	06:00	187.2	185.3	1.4	97
Beaverlodge	419625	Sep-17-2023	06:00	07:00	178.7	176.9	5.7	48
Beaverlodge	419625	Sep-17-2023	07:00	08:00	187.2	185.3	1.1	57
Beaverlodge	419625	Sep-17-2023	08:00	09:00	212.9	211.0	1.4	261
Beaverlodge	419625	Sep-17-2023	09:00	10:00	209.6	207.7	1.4	175
Beaverlodge	419625	Sep-17-2023	10:00	11:00	212.7	210.8	5.3	214
Beaverlodge	419625	Sep-17-2023	11:00	12:00	202.1	200.3	10.9	224
Beaverlodge	419625	Sep-17-2023	12:00	13:00	217.6	215.7	14	219
Beaverlodge	419625	Sep-17-2023	13:00	14:00	192	190.1	11.9	218
Beaverlodge	419625	Sep-17-2023	14:00	15:00	133.3	131.4	12.2	252
Beaverlodge	419625	Sep-17-2023	15:00	16:00	152.6	150.8	9.9	244
Beaverlodge	419625	Sep-17-2023	16:00	17:00	176.7	174.9	11.4	250
Dunes	412613	May-05-2023	10:00	11:00	191.9	191.9	10.9	113
Dunes	412613	May-05-2023	11:00	12:00	314.3	314.3	12.4	123
Dunes	412613	May-05-2023	12:00	13:00	106.4	106.4	15.3	131
Dunes	412613	May-05-2023	13:00	14:00	95.8	95.8	18.1	133
Dunes	412613	May-05-2023	15:00	16:00	94.5	94.5	19.7	132
Dunes	412613	May-05-2023	16:00	17:00	102.8	102.8	17.9	130
Dunes	412613	May-06-2023	03:00	04:00	123.2	123.2	9.7	112
Dunes	412613	May-06-2023	04:00	05:00	135.2	135.2	8.1	105
Dunes	412613	May-06-2023	05:00	06:00	123.4	123.4	8.5	104
Dunes	412613	May-06-2023	06:00	07:00	124.9	124.9	8.4	106
Dunes	412613	May-06-2023	07:00	08:00	96.4	96.4	8.9	105
Dunes	412613	May-06-2023	18:00	19:00	80.5	80.5	14.6	121
Dunes	412613	May-07-2023	08:00	09:00	96.5	96.5	5.7	127
Dunes	412829	May-08-2023	07:00	08:00	81.3	81.3	1.4	174
Dunes	412829	May-12-2023	01:00	02:00	96.9	96.9	1	200
Dunes	412829	May-12-2023	02:00	03:00	93.4	93.4	0.1	102
Dunes	412829	May-12-2023	03:00	04:00	91.8	91.8	0.9	280
Dunes	412829	May-12-2023	04:00	05:00	81.9	81.9	0.7	202
Dunes	412829	May-14-2023	21:00	22:00	164.7	164.7	3.7	107
Dunes	412829	May-14-2023	22:00	23:00	221	221	2	89
Dunes	412829	May-14-2023	23:00	00:00	201.8	201.8	0.1	93
Dunes	413248	May-15-2023	00:00	01:00	204.6	204.6	0.6	338
Dunes	413248	May-15-2023	01:00	02:00	204.7	204.7	0.5	17
Dunes	413248	May-15-2023	02:00	03:00	181.9	181.9	0.7	329
Dunes	413248	May-15-2023	03:00	04:00	161.3	161.3	0.3	318
Dunes	413248	May-15-2023	04:00	05:00	156.1	156.1	0.4	221
Dunes	413248	May-15-2023	05:00	06:00	149.8	149.8	0.7	264
Dunes	413248	May-15-2023	06:00	07:00	150.4	150.4	0	301
Dunes	413248	May-15-2023	07:00	08:00	162.6	162.6	1.4	210
Dunes	413248	May-15-2023	08:00	09:00	181.8	181.8	1.7	167
Dunes	413248	May-15-2023	09:00	10:00	173.4	173.4	2.9	169
Dunes	413248	May-15-2023	10:00	11:00	155.1	155.1	2.3	169
Dunes	413248	May-15-2023	11:00	12:00	136.9	136.9	3.5	178
Dunes	413248	May-15-2023	12:00	13:00	82.9	82.9	2.7	185
Dunes	413248	May-15-2023	22:00	23:00	110.3	110.3	4.5	14
Dunes	413248	May-15-2023	23:00	00:00	324.4	324.4	14.8	36
Dunes	413248	May-16-2023	00:00	01:00	306.3	306.3	9.5	21
Dunes	413248	May-16-2023	01:00	02:00	377.7	377.7	4.7	339

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Dunes	413248	May-16-2023	02:00	03:00	329.2	329.2	3	331
Dunes	413248	May-16-2023	03:00	04:00	223.9	223.9	3.1	6
Dunes	413248	May-16-2023	04:00	05:00	190.6	190.6	1.1	326
Dunes	413248	May-16-2023	05:00	06:00	173.4	173.4	0.6	274
Dunes	413248	May-16-2023	06:00	07:00	198.1	198.1	0.8	286
Dunes	413248	May-16-2023	07:00	08:00	158.1	158.1	0.3	326
Dunes	413248	May-16-2023	08:00	09:00	127.4	127.4	1.2	316
Dunes	413248	May-16-2023	11:00	12:00	108.2	108.2	3.5	327
Dunes	413248	May-16-2023	12:00	13:00	205.3	205.3	4.3	319
Dunes	413248	May-16-2023	13:00	14:00	128.2	128.2	3.3	289
Dunes	413248	May-16-2023	14:00	15:00	83.5	83.5	1.2	269
Dunes	413248	May-16-2023	15:00	16:00	114	114	4.3	213
Dunes	413248	May-16-2023	16:00	17:00	99.1	99.1	2.4	169
Dunes	413248	May-16-2023	17:00	18:00	120.2	120.2	3.7	161
Dunes	413248	May-16-2023	18:00	19:00	143.9	143.9	4.1	172
Dunes	413248	May-16-2023	19:00	20:00	144.9	144.9	4.1	175
Dunes	413248	May-16-2023	20:00	21:00	147.5	147.5	2.2	187
Dunes	413248	May-16-2023	21:00	22:00	156.6	156.6	0.4	176
Dunes	413248	May-16-2023	22:00	23:00	165.6	165.6	0.4	305
Dunes	413248	May-16-2023	23:00	00:00	161.2	161.2	0.4	334
Dunes	413248	May-17-2023	00:00	01:00	159.4	159.4	0.4	256
Dunes	413248	May-17-2023	01:00	02:00	163.7	163.7	0.2	287
Dunes	413248	May-17-2023	02:00	03:00	158.3	158.3	0.6	355
Dunes	413248	May-17-2023	03:00	04:00	155.7	155.7	0.4	274
Dunes	413248	May-17-2023	04:00	05:00	160.3	160.3	0.4	222
Dunes	413248	May-17-2023	05:00	06:00	157.4	157.4	0.7	337
Dunes	413248	May-17-2023	06:00	07:00	148	148	0.4	228
Dunes	413248	May-17-2023	07:00	08:00	154.2	154.2	2.7	213
Dunes	413248	May-17-2023	08:00	09:00	166.4	166.4	1.6	173
Dunes	413248	May-17-2023	09:00	10:00	207.6	207.6	2.2	180
Dunes	413248	May-17-2023	10:00	11:00	191.5	191.5	0.7	34
Dunes	413248	May-17-2023	11:00	12:00	157.8	157.8	3.4	110
Dunes	413248	May-17-2023	12:00	13:00	132	132	4.5	157
Dunes	413248	May-17-2023	21:00	22:00	111.9	111.9	1.5	88
Dunes	413248	May-17-2023	22:00	23:00	88.8	88.8	0.2	294
Dunes	413248	May-17-2023	23:00	00:00	89.7	89.7	0.4	274
Dunes	413248	May-18-2023	00:00	01:00	87.7	87.7	0.6	339
Dunes	413248	May-18-2023	01:00	02:00	88.5	88.5	0.7	342
Dunes	413248	May-18-2023	02:00	03:00	93.8	93.8	1.1	336
Dunes	413248	May-18-2023	03:00	04:00	100.3	100.3	0.8	0
Dunes	413248	May-18-2023	04:00	05:00	131	131	0.3	287
Dunes	413248	May-18-2023	05:00	06:00	167.8	167.8	0.4	6
Dunes	413248	May-18-2023	06:00	07:00	183.1	183.1	1	30
Dunes	413248	May-18-2023	07:00	08:00	286.5	286.5	1.4	113
Dunes	413248	May-18-2023	08:00	09:00	440.1	440.1	1.6	105
Dunes	413248	May-18-2023	09:00	10:00	588.1	588.1	3.3	135
Dunes	413248	May-18-2023	10:00	11:00	503.7	503.7	3.8	151
Dunes	413248	May-18-2023	11:00	12:00	429.7	429.7	4.5	130
Dunes	413248	May-18-2023	12:00	13:00	468.1	468.1	5.3	121
Dunes	413248	May-18-2023	13:00	14:00	325.2	325.2	5.8	105
Dunes	413248	May-18-2023	14:00	15:00	325	325	8.8	115
Dunes	413248	May-18-2023	15:00	16:00	141	141	8.2	105
Dunes	413248	May-18-2023	16:00	17:00	140.8	140.8	7.9	103
Dunes	413248	May-18-2023	17:00	18:00	140	140	7.6	103
Dunes	413248	May-18-2023	18:00	19:00	179	179	6.5	95
Dunes	413248	May-18-2023	19:00	20:00	266.3	266.3	4.7	85
Dunes	413248	May-18-2023	20:00	21:00	319	319	3.2	82
Dunes	413248	May-18-2023	21:00	22:00	306.9	306.9	1.7	67
Dunes	413248	May-18-2023	22:00	23:00	307	307	0.7	356
Dunes	413248	May-18-2023	23:00	00:00	329.2	329.2	0.6	21
Dunes	413248	May-19-2023	00:00	01:00	285.7	285.7	0.7	305
Dunes	413248	May-19-2023	01:00	02:00	280.7	280.7	0.9	237
Dunes	413248	May-19-2023	02:00	03:00	272.3	272.3	1.2	329
Dunes	413248	May-19-2023	03:00	04:00	284.6	284.6	1.4	204
Dunes	413248	May-19-2023	04:00	05:00	330.6	330.6	2	210
Dunes	413248	May-19-2023	05:00	06:00	335.2	335.2	1.6	249
Dunes	413248	May-19-2023	06:00	07:00	333.5	333.5	1.1	209
Dunes	413248	May-19-2023	07:00	08:00	330.7	330.7	0.6	69
Dunes	413248	May-19-2023	08:00	09:00	328.7	328.7	1	194

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Dunes	413248	May-19-2023	09:00	10:00	332	332	1.9	170
Dunes	413248	May-19-2023	10:00	11:00	225	225	3.4	174
Dunes	413248	May-19-2023	11:00	12:00	117.2	117.2	3.5	217
Dunes	413248	May-19-2023	13:00	14:00	83.5	83.5	6.4	273
Dunes	413248	May-19-2023	18:00	19:00	125.3	125.3	8.4	328
Dunes	413248	May-19-2023	19:00	20:00	908.7	908.7	8.8	337
Dunes	413248	May-19-2023	20:00	21:00	997	997	5.3	330
Dunes	413248	May-19-2023	21:00	22:00	948.8	948.8	3.9	313
Dunes	413248	May-19-2023	22:00	23:00	745.5	745.5	3.6	306
Dunes	413248	May-19-2023	23:00	00:00	580.2	580.2	2.2	298
Dunes	413248	May-20-2023	00:00	01:00	539	539	1.3	307
Dunes	413248	May-20-2023	01:00	02:00	542.3	542.3	1.1	319
Dunes	413248	May-20-2023	02:00	03:00	444.1	444.1	1.5	326
Dunes	413248	May-20-2023	03:00	04:00	309.7	309.7	1.8	307
Dunes	413248	May-20-2023	04:00	05:00	288.8	288.8	0.8	244
Dunes	413248	May-20-2023	05:00	06:00	302.9	302.9	1.2	248
Dunes	413248	May-20-2023	06:00	07:00	273.6	273.6	0.6	268
Dunes	413248	May-20-2023	07:00	08:00	251.1	251.1	0.8	269
Dunes	413248	May-20-2023	08:00	09:00	256.4	256.4	2.2	284
Dunes	413248	May-20-2023	09:00	10:00	273.2	273.2	0.6	198
Dunes	413248	May-20-2023	10:00	11:00	313.2	313.2	2.2	173
Dunes	413248	May-20-2023	11:00	12:00	319.1	319.1	1.5	119
Dunes	413248	May-20-2023	12:00	13:00	281.7	281.7	4	187
Dunes	413248	May-20-2023	13:00	14:00	283.1	283.1	5.4	171
Dunes	413248	May-20-2023	14:00	15:00	292.4	292.4	4.8	130
Dunes	413248	May-20-2023	15:00	16:00	321.1	321.1	3.5	113
Dunes	413248	May-20-2023	16:00	17:00	329.4	329.4	5.3	40
Dunes	413248	May-20-2023	17:00	18:00	316.4	316.4	4.9	96
Dunes	413248	May-20-2023	18:00	19:00	326.2	326.2	5.7	98
Dunes	413248	May-20-2023	19:00	20:00	201.6	201.6	4.6	104
Dunes	413248	May-20-2023	20:00	21:00	219.4	219.4	2.3	303
Dunes	413248	May-20-2023	23:00	00:00	95	95	4.4	149
Dunes	413248	May-21-2023	00:00	01:00	162.6	162.6	3.9	162
Dunes	413248	May-21-2023	01:00	02:00	222.4	222.4	0.1	283
Dunes	413248	May-21-2023	02:00	03:00	175.4	175.4	2.2	278
Dunes	413248	May-21-2023	03:00	04:00	141.8	141.8	0.9	317
Dunes	413248	May-21-2023	04:00	05:00	107.3	107.3	0.7	317
Dunes	413248	May-21-2023	05:00	06:00	92.4	92.4	0.9	352
Dunes	413248	May-21-2023	12:00	13:00	87	87	3.1	146
Dunes	413248	May-21-2023	13:00	14:00	209.4	209.4	2.7	109
Dunes	413248	May-21-2023	14:00	15:00	307.8	307.8	3.8	136
Dunes	413248	May-21-2023	15:00	16:00	341.9	341.9	3.7	197
Dunes	413248	May-21-2023	16:00	17:00	123.3	123.3	5.6	260
Dunes	414465	Jun-09-2023	00:00	01:00	101.8	101.8	3	67
Dunes	414465	Jun-10-2023	14:00	15:00	80.4	80.4	6.7	294
Dunes	414465	Jun-10-2023	15:00	16:00	88	88	7.3	304
Dunes	414465	Jun-10-2023	16:00	17:00	126.5	126.5	6.3	310
Dunes	414465	Jun-11-2023	11:00	12:00	88.9	88.9	5.6	246
Dunes	414465	Jun-11-2023	12:00	13:00	94.6	94.6	4.9	254
Dunes	414790	Jun-12-2023	17:00	18:00	90.7	90.7	5.1	327
Dunes	414790	Jun-12-2023	18:00	19:00	91.1	91.1	3.6	322
Dunes	414790	Jun-12-2023	20:00	21:00	81.9	81.9	1.4	159
Dunes	414790	Jun-12-2023	21:00	22:00	93.1	93.1	0.4	240
Dunes	414790	Jun-12-2023	22:00	23:00	112.1	112.1	0.8	209
Dunes	414790	Jun-13-2023	23:00	00:00	100.1	100.1	1	184
Dunes	414790	Jun-13-2023	00:00	01:00	117	117	1.3	172
Dunes	414790	Jun-13-2023	01:00	02:00	97.2	97.2	1	185
Dunes	414790	Jun-13-2023	02:00	03:00	90.5	90.5	0.7	338
Dunes	414790	Jun-13-2023	03:00	04:00	86.4	86.4	0.8	220
Dunes	414790	Jun-13-2023	04:00	05:00	85.9	85.9	1.3	154
Dunes	414790	Jun-13-2023	05:00	06:00	82.5	82.5	1.3	309
Dunes	414790	Jun-13-2023	06:00	07:00	81.3	81.3	2.2	321
Dunes	414790	Jun-13-2023	07:00	08:00	89.9	89.9	4.3	334
Dunes	414790	Jun-14-2023	07:00	08:00	91.1	91.1	5.2	296
Dunes	414790	Jun-14-2023	08:00	09:00	150.6	150.6	5.4	305
Dunes	414790	Jun-14-2023	09:00	10:00	186.6	186.6	4.9	319
Dunes	414790	Jun-14-2023	10:00	11:00	222.9	222.9	7	321
Dunes	414790	Jun-14-2023	11:00	12:00	192.2	192.2	8.2	332
Dunes	414790	Jun-14-2023	12:00	13:00	111.9	111.9	6	341



Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Dunes	414790	Jun-14-2023	13:00	14:00	189.6	189.6	5.8	303
Dunes	414790	Jun-14-2023	14:00	15:00	217.1	217.1	7	317
Dunes	414790	Jun-14-2023	15:00	16:00	197.9	197.9	5.8	305
Dunes	414790	Jun-14-2023	16:00	17:00	174.9	174.9	4.2	290
Dunes	414790	Jun-14-2023	17:00	18:00	91.4	91.4	6.4	330
Dunes	416558	Jul-10-2023	13:00	14:00	112.4	112.4	3.2	358
Dunes	416558	Jul-10-2023	14:00	15:00	139.3	139.3	3.1	310
Dunes	416558	Jul-10-2023	15:00	16:00	169.9	169.9	3.7	297
Dunes	416558	Jul-10-2023	16:00	17:00	226.3	226.3	3.2	256
Dunes	416558	Jul-10-2023	17:00	18:00	210.4	210.4	5	199
Dunes	416558	Jul-12-2023	06:00	07:00	81.7	81.7	3.3	293
Dunes	416558	Jul-12-2023	07:00	08:00	86.3	86.3	3.6	283
Dunes	416558	Jul-12-2023	08:00	09:00	92.5	92.5	3.9	294
Dunes	416558	Jul-12-2023	09:00	10:00	95.7	95.7	3.6	285
Dunes	416558	Jul-12-2023	10:00	11:00	92.2	92.2	3.5	267
Dunes	416558	Jul-12-2023	11:00	12:00	88.8	88.8	3.8	270
Dunes	416558	Jul-12-2023	12:00	13:00	84.7	84.7	3.1	255
Dunes	416558	Jul-12-2023	19:00	20:00	150.5	150.5	2.3	316
Dunes	416558	Jul-12-2023	20:00	21:00	176.7	176.7	0.1	113
Dunes	416558	Jul-12-2023	21:00	22:00	186.4	186.4	1.6	240
Dunes	416558	Jul-12-2023	22:00	23:00	168.6	168.6	1.2	256
Dunes	416558	Jul-13-2023	23:00	00:00	147.6	147.6	0.9	299
Dunes	416558	Jul-13-2023	00:00	01:00	137.9	137.9	0.4	301
Dunes	416558	Jul-13-2023	01:00	02:00	129.4	129.4	0.8	260
Dunes	416558	Jul-13-2023	02:00	03:00	126.1	126.1	1.2	290
Dunes	416558	Jul-13-2023	03:00	04:00	131.8	131.8	1.9	299
Dunes	416558	Jul-13-2023	04:00	05:00	128.3	128.3	2.3	311
Dunes	416558	Jul-13-2023	05:00	06:00	128.1	128.1	1.4	289
Dunes	416558	Jul-13-2023	06:00	07:00	123	123	3.1	291
Dunes	416558	Jul-13-2023	07:00	08:00	92.8	92.8	1.7	259
Dunes	416558	Jul-15-2023	16:00	17:00	95.8	95.8	4.7	238
Dunes	416558	Jul-15-2023	17:00	18:00	118.9	118.9	2	217
Dunes	416558	Jul-15-2023	18:00	19:00	108.2	108.2	1.8	211
Dunes	416558	Jul-15-2023	19:00	20:00	140	140	3.2	194
Dunes	416558	Jul-15-2023	20:00	21:00	167.2	167.2	3.9	192
Dunes	416558	Jul-15-2023	21:00	22:00	159.9	159.9	2.9	188
Dunes	416558	Jul-15-2023	22:00	23:00	177.4	177.4	1.9	217
Dunes	416558	Jul-16-2023	23:00	00:00	142.6	142.6	0.5	145
Dunes	416558	Jul-16-2023	00:00	01:00	142.4	142.4	2	186
Dunes	416558	Jul-16-2023	01:00	02:00	136.6	136.6	1.3	209
Dunes	416558	Jul-16-2023	02:00	03:00	133.5	133.5	0.4	258
Dunes	416558	Jul-16-2023	03:00	04:00	136.8	136.8	0.9	203
Dunes	416558	Jul-16-2023	04:00	05:00	138	138	1.7	206
Dunes	416558	Jul-16-2023	05:00	06:00	131.8	131.8	3.2	200
Dunes	416558	Jul-16-2023	06:00	07:00	131.7	131.7	1.5	201
Dunes	416558	Jul-16-2023	07:00	08:00	134.3	134.3	1.4	191
Dunes	416558	Jul-16-2023	08:00	09:00	134.9	134.9	1.9	190
Dunes	416558	Jul-16-2023	09:00	10:00	114	114	1.5	253
Dunes	416558	Jul-16-2023	10:00	11:00	112.9	112.9	3.1	196
Dunes	416558	Jul-16-2023	11:00	12:00	123.6	123.6	2.2	185
Dunes	416558	Jul-16-2023	12:00	13:00	103	103	2.4	146
Dunes	416558	Jul-16-2023	13:00	14:00	104.4	104.4	1.6	175
Dunes	416558	Jul-16-2023	14:00	15:00	103.4	103.4	2.4	74
Dunes	416558	Jul-16-2023	15:00	16:00	100.3	100.3	2.8	53
Dunes	416558	Jul-16-2023	16:00	17:00	97.3	97.3	2.2	126
Dunes	416558	Jul-16-2023	17:00	18:00	93.6	93.6	3	147
Dunes	416558	Jul-16-2023	18:00	19:00	86.4	86.4	4	154
Dunes	418445	Aug-24-2023	15:00	16:00	108.8	108.8	4.3	203
Dunes	418445	Aug-24-2023	16:00	17:00	92.1	92.1	3.6	203
Dunes	418445	Aug-24-2023	17:00	18:00	85.7	85.7	2.7	188
Dunes	418445	Aug-24-2023	18:00	19:00	80.8	80.8	2.9	171
Dunes	418445	Aug-24-2023	20:00	21:00	80.6	80.6	3.2	166
Dunes	418445	Aug-24-2023	21:00	22:00	83.1	83.1	3.9	170
Dunes	418873	Aug-29-2023	22:00	23:00	92.9	92.9	0.5	292
Dunes	418873	Aug-30-2023	23:00	00:00	92.1	92.1	0.5	258
Dunes	418873	Aug-30-2023	00:00	01:00	136.5	136.5	1.3	233
Dunes	418873	Aug-30-2023	01:00	02:00	126.9	126.9	0.7	4
Dunes	418873	Aug-30-2023	02:00	03:00	101.1	101.1	1.1	275
Dunes	418873	Sep-02-2023	02:00	03:00	98	98	7.6	303

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Dunes	418873	Sep-03-2023	04:00	05:00	141.4	141.4	4.9	272
Dunes	418873	Sep-03-2023	05:00	06:00	230.7	230.7	5.4	224
Dunes	418873	Sep-03-2023	06:00	07:00	190.5	190.5	5.6	217
Dunes	418873	Sep-03-2023	07:00	08:00	164.9	164.9	5.6	223
Dunes	418873	Sep-03-2023	08:00	09:00	124	124	5.8	234
Dunes	418873	Sep-03-2023	09:00	10:00	101.2	101.2	5.9	244
Dunes	418873	Sep-03-2023	10:00	11:00	98.8	98.8	6.4	276
Dunes	418873	Sep-03-2023	13:00	14:00	126.6	126.6	9	336
Dunes	418873	Sep-03-2023	14:00	15:00	193.5	193.5	7.6	3
Dunes	418873	Sep-03-2023	15:00	16:00	147.3	147.3	7.2	31
Dunes	418873	Sep-03-2023	16:00	17:00	155.5	155.5	7.1	34
Dunes	418873	Sep-03-2023	17:00	18:00	169.9	169.9	3.6	47
Dunes	418873	Sep-03-2023	18:00	19:00	163.6	163.6	0.4	311
Dunes	418873	Sep-03-2023	19:00	20:00	159.2	159.2	0.8	309
Dunes	419609	Sep-11-2023	13:00	14:00	117.7	117.7	4.4	277
Dunes	419609	Sep-11-2023	14:00	15:00	141.9	141.9	3.9	308
Dunes	419609	Sep-11-2023	15:00	16:00	115.5	115.5	1.2	242
Dunes	419609	Sep-11-2023	16:00	17:00	104.2	104.2	2.8	232
Dunes	419609	Sep-14-2023	23:00	00:00	86.3	86.3	3.8	239
Dunes	419609	Sep-14-2023	00:00	01:00	129.7	129.7	4.6	235
Dunes	419609	Sep-14-2023	01:00	02:00	131.7	131.7	3.6	249
Dunes	419609	Sep-14-2023	02:00	03:00	107.2	107.2	3.4	252
Dunes	419609	Sep-14-2023	03:00	04:00	84.7	84.7	1.9	281
Dunes	419609	Sep-16-2023	00:00	01:00	82.7	82.7	1.2	203
Dunes	419609	Sep-16-2023	01:00	02:00	87.1	87.1	1.5	191
Dunes	419609	Sep-16-2023	02:00	03:00	87.4	87.4	1.4	217
Dunes	419609	Sep-16-2023	03:00	04:00	94.8	94.8	1.4	192
Dunes	419609	Sep-16-2023	04:00	05:00	83.2	83.2	1.8	201
Dunes	419609	Sep-16-2023	05:00	06:00	119.7	119.7	3.7	196
Dunes	419609	Sep-16-2023	06:00	07:00	159.6	159.6	0.8	200
Dunes	419609	Sep-16-2023	07:00	08:00	159.6	159.6	0.8	234
Dunes	419609	Sep-16-2023	08:00	09:00	163	163	2.6	196
Dunes	419609	Sep-16-2023	09:00	10:00	109.4	109.4	3.7	193
Dunes	419609	Sep-16-2023	10:00	11:00	111.2	111.2	2.5	192
Dunes	419609	Sep-16-2023	11:00	12:00	141.3	141.3	0.3	25
Dunes	419609	Sep-16-2023	12:00	13:00	156.2	156.2	1.6	320
Dunes	419609	Sep-16-2023	13:00	14:00	150.1	150.1	1.4	12
Dunes	419609	Sep-16-2023	14:00	15:00	110.3	110.3	5	147
Dunes	419609	Sep-16-2023	15:00	16:00	114.9	114.9	4.8	134
Dunes	419609	Sep-16-2023	16:00	17:00	129.1	129.1	2.2	128
Dunes	419609	Sep-16-2023	17:00	18:00	124.3	124.3	1.2	114
Dunes	419609	Sep-16-2023	18:00	19:00	119.9	119.9	0.4	281
Dunes	419609	Sep-16-2023	19:00	20:00	122.8	122.8	0.8	302
Dunes	419609	Sep-16-2023	20:00	21:00	140.7	140.7	1.1	354
Dunes	419609	Sep-16-2023	21:00	22:00	154.3	154.3	1	354
Dunes	419609	Sep-16-2023	22:00	23:00	167.8	167.8	0.6	193
Dunes	419609	Sep-17-2023	23:00	00:00	173.5	173.5	1.6	186
Dunes	419609	Sep-17-2023	00:00	01:00	180.9	180.9	2.1	273
Dunes	419609	Sep-17-2023	01:00	02:00	188.1	188.1	1.5	257
Dunes	419609	Sep-17-2023	02:00	03:00	158.2	158.2	2.7	242
Dunes	419609	Sep-17-2023	03:00	04:00	131.8	131.8	3.9	265
Dunes	419609	Sep-17-2023	04:00	05:00	122.4	122.4	3.7	263
Dunes	419609	Sep-17-2023	05:00	06:00	108.2	108.2	3.1	283
Dunes	419609	Sep-17-2023	06:00	07:00	107.5	107.5	0.4	311
Dunes	419609	Sep-17-2023	07:00	08:00	99.1	99.1	3.4	237
Dunes	419609	Sep-17-2023	08:00	09:00	107.4	107.4	4.9	233
Dunes	419609	Sep-17-2023	09:00	10:00	139.4	139.4	4.4	243
Dunes	419609	Sep-17-2023	10:00	11:00	157.2	157.2	3.4	246
Dunes	419609	Sep-17-2023	11:00	12:00	154.1	154.1	2.4	243
Dunes	419609	Sep-17-2023	12:00	13:00	148.7	148.7	3.3	208
Dunes	419609	Sep-17-2023	13:00	14:00	152.6	152.6	3	177
Dunes	419609	Sep-17-2023	14:00	15:00	157.2	157.2	4.1	187
Dunes	419609	Sep-17-2023	15:00	16:00	149.8	149.8	3.1	175
Dunes	419609	Sep-17-2023	16:00	17:00	148.3	148.3	3.7	177
Dunes	419609	Sep-17-2023	17:00	18:00	142.2	142.2	1.9	175
Dunes	419609	Sep-17-2023	18:00	19:00	133.6	133.6	1.3	173
Dunes	419609	Sep-17-2023	19:00	20:00	131.8	131.8	3.3	167
Dunes	419609	Sep-17-2023	20:00	21:00	122.2	122.2	3.7	167
Dunes	419609	Sep-17-2023	21:00	22:00	121	121	3.4	165

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Dunes	419609	Sep-17-2023	22:00	23:00	122.6	122.6	3.6	171
Dunes	419948	Sep-18-2023	23:00	00:00	90	90	4	296
Dunes	419948	Sep-20-2023	12:00	13:00	86.5	86.5	4	349
Dunes	419948	Sep-20-2023	13:00	14:00	96.6	96.6	1.4	349
Dunes	419948	Sep-20-2023	14:00	15:00	106.1	106.1	1.5	335
Dunes	419948	Sep-20-2023	15:00	16:00	105.2	105.2	0.3	144
Dunes	419948	Sep-20-2023	16:00	17:00	94.6	94.6	2.7	216
Henry Pirker	412614	May-05-2023	09:00	10:00	83.5	81.7	9.8	105
Henry Pirker	412614	May-05-2023	10:00	11:00	212.9	212.0	12.7	101
Henry Pirker	412614	May-05-2023	11:00	12:00	259.1	258.2	14.9	112
Henry Pirker	412614	May-05-2023	12:00	13:00	92.3	91.4	21.7	115
Henry Pirker	412614	May-05-2023	13:00	14:00	128.8	127.9	24.7	128
Henry Pirker	412614	May-05-2023	14:00	15:00	116.4	115.4	22.5	123
Henry Pirker	412614	May-05-2023	15:00	16:00	197	196.1	24.9	120
Henry Pirker	412614	May-05-2023	16:00	17:00	194.8	193.9	23.2	118
Henry Pirker	412614	May-05-2023	17:00	18:00	96.3	95.4	20.4	116
Henry Pirker	412614	May-05-2023	20:00	21:00	85.2	84.2	12.9	104
Henry Pirker	412614	May-06-2023	01:00	02:00	85.8	84.0	14.2	104
Henry Pirker	412614	May-06-2023	02:00	03:00	123.3	121.4	13.9	108
Henry Pirker	412614	May-06-2023	03:00	04:00	189.6	187.7	12.5	98
Henry Pirker	412614	May-06-2023	04:00	05:00	200.8	198.9	9.8	88
Henry Pirker	412614	May-06-2023	05:00	06:00	195.6	193.7	10.2	85
Henry Pirker	412614	May-06-2023	06:00	07:00	189.7	187.8	11.7	89
Henry Pirker	412614	May-06-2023	07:00	08:00	171.8	170.0	12.8	83
Henry Pirker	412614	May-06-2023	08:00	09:00	115.7	113.9	13.3	95
Henry Pirker	412614	May-06-2023	09:00	10:00	139.2	137.4	13.5	94
Henry Pirker	412614	May-06-2023	17:00	18:00	192.4	191.4	20	94
Henry Pirker	412614	May-06-2023	18:00	19:00	152.5	150.6	19.9	108
Henry Pirker	412614	May-06-2023	19:00	20:00	120.8	118.9	16.6	102
Henry Pirker	412614	May-06-2023	20:00	21:00	100.2	98.4	15.8	105
Henry Pirker	412614	May-06-2023	21:00	22:00	128.6	126.7	14.8	105
Henry Pirker	412614	May-06-2023	22:00	23:00	92.7	90.9	9.9	86
Henry Pirker	412614	May-07-2023	08:00	09:00	109.4	107.5	10.3	112
Henry Pirker	412830	May-08-2023	08:00	09:00	80.4	78.6	3.9	169
Henry Pirker	412830	May-08-2023	20:00	21:00	83	81.1	2	344
Henry Pirker	412830	May-14-2023	15:00	16:00	124.1	123.2	6.6	109
Henry Pirker	412830	May-14-2023	16:00	17:00	93.2	92.3	6.4	93
Henry Pirker	412830	May-14-2023	17:00	18:00	80.7	79.7	7	95
Henry Pirker	412830	May-14-2023	20:00	21:00	81.7	80.8	5.4	90
Henry Pirker	412830	May-14-2023	21:00	22:00	163.7	162.8	5.7	98
Henry Pirker	412830	May-14-2023	22:00	23:00	297	296.1	5.8	79
Henry Pirker	412830	May-14-2023	23:00	00:00	315.1	314.2	6.1	85
Henry Pirker	413249	May-15-2023	00:00	01:00	263.8	262.9	6.5	82
Henry Pirker	413249	May-15-2023	01:00	02:00	251	249.2	4.6	84
Henry Pirker	413249	May-15-2023	02:00	03:00	292.1	290.2	3.5	68
Henry Pirker	413249	May-15-2023	03:00	04:00	290.9	289.0	2.9	87
Henry Pirker	413249	May-15-2023	04:00	05:00	340.1	338.2	3.6	78
Henry Pirker	413249	May-15-2023	05:00	06:00	338.1	336.2	0.7	245
Henry Pirker	413249	May-15-2023	06:00	07:00	327.7	325.8	0.5	96
Henry Pirker	413249	May-15-2023	07:00	08:00	396.6	394.7	2.9	101
Henry Pirker	413249	May-15-2023	08:00	09:00	359	357.1	3.2	121
Henry Pirker	413249	May-15-2023	09:00	10:00	259.4	257.6	2.7	149
Henry Pirker	413249	May-15-2023	10:00	11:00	233.2	232.3	3	165
Henry Pirker	413249	May-15-2023	11:00	12:00	198.2	197.3	3.4	185
Henry Pirker	413249	May-15-2023	12:00	13:00	139	138.1	2.6	185
Henry Pirker	413249	May-15-2023	13:00	14:00	110.8	109.8	2.7	219
Henry Pirker	413249	May-15-2023	14:00	15:00	96.1	95.2	3	167
Henry Pirker	413249	May-15-2023	15:00	16:00	101.7	100.8	2.1	157
Henry Pirker	413249	May-15-2023	16:00	17:00	107.8	106.9	2.3	183
Henry Pirker	413249	May-15-2023	17:00	18:00	104.9	103.9	2.8	13
Henry Pirker	413249	May-15-2023	18:00	19:00	101	100.1	3.4	50

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	413249	May-15-2023	19:00	20:00	108.6	107.7	5.6	123
Henry Pirker	413249	May-15-2023	20:00	21:00	119	118.0	4.6	141
Henry Pirker	413249	May-15-2023	21:00	22:00	111.9	111.0	2.9	119
Henry Pirker	413249	May-15-2023	22:00	23:00	150.6	149.7	7.4	16
Henry Pirker	413249	May-15-2023	23:00	00:00	395.1	393.3	10.9	25
Henry Pirker	413249	May-16-2023	00:00	01:00	473.3	471.5	7.8	360
Henry Pirker	413249	May-16-2023	01:00	02:00	550.9	549.0	7.5	316
Henry Pirker	413249	May-16-2023	02:00	03:00	479.5	477.6	4.7	325
Henry Pirker	413249	May-16-2023	03:00	04:00	326.2	324.3	3.7	353
Henry Pirker	413249	May-16-2023	04:00	05:00	303.3	301.4	3.1	328
Henry Pirker	413249	May-16-2023	05:00	06:00	267.2	265.3	2.3	320
Henry Pirker	413249	May-16-2023	06:00	07:00	236.8	234.9	1.5	311
Henry Pirker	413249	May-16-2023	07:00	08:00	194	192.1	2.5	329
Henry Pirker	413249	May-16-2023	08:00	09:00	112.7	110.9	4	323
Henry Pirker	413249	May-16-2023	09:00	10:00	103.1	101.2	3.5	357
Henry Pirker	413249	May-16-2023	10:00	11:00	137.7	135.8	3.9	307
Henry Pirker	413249	May-16-2023	11:00	12:00	268.1	266.3	7	302
Henry Pirker	413249	May-16-2023	12:00	13:00	321	319.1	5.3	270
Henry Pirker	413249	May-16-2023	13:00	14:00	171.1	170.2	2.5	254
Henry Pirker	413249	May-16-2023	14:00	15:00	134.8	133.9	1.3	15
Henry Pirker	413249	May-16-2023	15:00	16:00	166.2	165.2	6.9	24
Henry Pirker	413249	May-16-2023	16:00	17:00	201.6	200.7	5.4	60
Henry Pirker	413249	May-16-2023	17:00	18:00	227.4	226.5	4.4	99
Henry Pirker	413249	May-16-2023	18:00	19:00	240	239.0	5.7	145
Henry Pirker	413249	May-16-2023	19:00	20:00	239.4	237.5	7.3	172
Henry Pirker	413249	May-16-2023	20:00	21:00	233.6	231.7	4.6	148
Henry Pirker	413249	May-16-2023	21:00	22:00	239.3	237.4	3.8	153
Henry Pirker	413249	May-16-2023	22:00	23:00	257.2	255.3	1	72
Henry Pirker	413249	May-16-2023	23:00	00:00	273.5	271.6	1.5	64
Henry Pirker	413249	May-17-2023	00:00	01:00	285	283.1	0.5	124
Henry Pirker	413249	May-17-2023	01:00	02:00	284.4	282.6	0.2	261
Henry Pirker	413249	May-17-2023	02:00	03:00	267.8	265.9	0.5	10
Henry Pirker	413249	May-17-2023	03:00	04:00	194.1	192.2	1.4	91
Henry Pirker	413249	May-17-2023	04:00	05:00	134.8	133.0	0.1	69
Henry Pirker	413249	May-17-2023	05:00	06:00	150.3	148.5	1.1	58
Henry Pirker	413249	May-17-2023	06:00	07:00	137.3	135.5	0.5	106
Henry Pirker	413249	May-17-2023	07:00	08:00	95.3	93.4	3	149
Henry Pirker	413249	May-17-2023	09:00	10:00	158.4	156.6	1.5	160
Henry Pirker	413249	May-17-2023	10:00	11:00	236.1	234.2	0.5	12
Henry Pirker	413249	May-17-2023	11:00	12:00	176.3	174.4	4.5	87
Henry Pirker	413249	May-17-2023	12:00	13:00	163	161.2	6.9	89
Henry Pirker	413249	May-17-2023	13:00	14:00	136.4	135.5	7.2	94
Henry Pirker	413249	May-17-2023	14:00	15:00	141.7	140.7	5.2	98
Henry Pirker	413249	May-17-2023	15:00	16:00	126.3	125.4	4.1	60
Henry Pirker	413249	May-17-2023	20:00	21:00	109.7	107.9	7.2	76
Henry Pirker	413249	May-17-2023	21:00	22:00	112.6	110.8	5.6	79
Henry Pirker	413249	May-17-2023	22:00	23:00	100.5	98.7	4.6	79
Henry Pirker	413249	May-17-2023	23:00	00:00	148.9	147.0	4.5	87
Henry Pirker	413249	May-18-2023	00:00	01:00	227.2	225.4	3.5	80
Henry Pirker	413249	May-18-2023	01:00	02:00	286.2	284.3	3.4	93
Henry Pirker	413249	May-18-2023	02:00	03:00	302.8	300.9	2.2	38
Henry Pirker	413249	May-18-2023	03:00	04:00	325.5	323.6	2.8	66
Henry Pirker	413249	May-18-2023	04:00	05:00	375.6	373.7	3.6	70
Henry Pirker	413249	May-18-2023	05:00	06:00	358.6	356.7	5.7	72
Henry Pirker	413249	May-18-2023	06:00	07:00	520.6	518.8	4.7	69
Henry Pirker	413249	May-18-2023	07:00	08:00	707.9	706.1	6.2	89
Henry Pirker	413249	May-18-2023	08:00	09:00	760.9	759.0	6.3	97
Henry Pirker	413249	May-18-2023	09:00	10:00	671.1	669.2	6	107
Henry Pirker	413249	May-18-2023	10:00	11:00	689.4	687.5	5.3	101
Henry Pirker	413249	May-18-2023	11:00	12:00	689.2	687.3	5.6	95

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	413249	May-18-2023	12:00	13:00	548.4	546.6	6.8	89
Henry Pirker	413249	May-18-2023	13:00	14:00	455.7	453.9	8.7	94
Henry Pirker	413249	May-18-2023	14:00	15:00	433.7	432.8	11.3	105
Henry Pirker	413249	May-18-2023	15:00	16:00	242.5	241.6	11.8	91
Henry Pirker	413249	May-18-2023	16:00	17:00	229.3	228.4	9.1	93
Henry Pirker	413249	May-18-2023	17:00	18:00	297.3	296.3	10.6	84
Henry Pirker	413249	May-18-2023	18:00	19:00	383.7	382.8	10.6	76
Henry Pirker	413249	May-18-2023	19:00	20:00	501.4	500.5	8.7	79
Henry Pirker	413249	May-18-2023	20:00	21:00	562	560.1	6.4	82
Henry Pirker	413249	May-18-2023	21:00	22:00	544.7	542.8	3.5	61
Henry Pirker	413249	May-18-2023	22:00	23:00	495.5	493.6	3.4	54
Henry Pirker	413249	May-18-2023	23:00	00:00	413.7	411.8	2.4	49
Henry Pirker	413249	May-19-2023	00:00	01:00	418.9	417.1	1.7	328
Henry Pirker	413249	May-19-2023	01:00	02:00	478.3	476.4	1.2	278
Henry Pirker	413249	May-19-2023	02:00	03:00	486.3	484.4	1.9	327
Henry Pirker	413249	May-19-2023	03:00	04:00	470.6	468.7	2.4	314
Henry Pirker	413249	May-19-2023	04:00	05:00	453.4	451.5	2.3	175
Henry Pirker	413249	May-19-2023	05:00	06:00	457.3	455.5	2.4	217
Henry Pirker	413249	May-19-2023	06:00	07:00	503	501.2	0.5	175
Henry Pirker	413249	May-19-2023	07:00	08:00	448.2	446.3	0.7	89
Henry Pirker	413249	May-19-2023	08:00	09:00	284.6	282.7	4.6	241
Henry Pirker	413249	May-19-2023	09:00	10:00	192.8	190.9	1.7	202
Henry Pirker	413249	May-19-2023	10:00	11:00	127.6	126.6	6.8	242
Henry Pirker	413249	May-19-2023	16:00	17:00	83.9	83.0	21.9	302
Henry Pirker	413249	May-19-2023	17:00	18:00	102.3	101.4	21.6	299
Henry Pirker	413249	May-19-2023	18:00	19:00	326.3	325.3	17.8	301
Henry Pirker	413249	May-19-2023	19:00	20:00	1140.3	1139.4	15.7	316
Henry Pirker	413249	May-19-2023	20:00	21:00	882.2	880.4	13.8	314
Henry Pirker	413249	May-19-2023	21:00	22:00	702.7	700.9	11.8	310
Henry Pirker	413249	May-19-2023	22:00	23:00	592.2	590.3	5.8	279
Henry Pirker	413249	May-19-2023	23:00	00:00	495.2	493.3	5.8	278
Henry Pirker	413249	May-20-2023	00:00	01:00	457	455.2	3.3	291
Henry Pirker	413249	May-20-2023	01:00	02:00	411.2	409.3	3.4	296
Henry Pirker	413249	May-20-2023	02:00	03:00	380.5	378.7	3.3	316
Henry Pirker	413249	May-20-2023	03:00	04:00	355.7	353.8	2.8	321
Henry Pirker	413249	May-20-2023	04:00	05:00	349.9	348.0	2.8	290
Henry Pirker	413249	May-20-2023	05:00	06:00	319.6	317.7	2.1	270
Henry Pirker	413249	May-20-2023	06:00	07:00	335.3	333.4	1.8	222
Henry Pirker	413249	May-20-2023	07:00	08:00	324.5	322.6	1.5	291
Henry Pirker	413249	May-20-2023	08:00	09:00	311.5	309.7	1.9	284
Henry Pirker	413249	May-20-2023	09:00	10:00	286.4	284.5	0.5	317
Henry Pirker	413249	May-20-2023	10:00	11:00	289.7	287.8	1.3	184
Henry Pirker	413249	May-20-2023	11:00	12:00	307.1	305.3	2	123
Henry Pirker	413249	May-20-2023	12:00	13:00	321.8	320.9	2.4	102
Henry Pirker	413249	May-20-2023	13:00	14:00	363.3	362.4	4.3	114
Henry Pirker	413249	May-20-2023	14:00	15:00	338.4	337.5	4.3	104
Henry Pirker	413249	May-20-2023	15:00	16:00	366.8	365.8	5.8	79
Henry Pirker	413249	May-20-2023	16:00	17:00	361	360.1	6.2	86
Henry Pirker	413249	May-20-2023	17:00	18:00	305.5	304.6	7.6	99
Henry Pirker	413249	May-20-2023	18:00	19:00	324.6	323.7	9	98
Henry Pirker	413249	May-20-2023	19:00	20:00	274.7	273.8	8	99
Henry Pirker	413249	May-20-2023	20:00	21:00	371.7	370.7	1.9	239
Henry Pirker	413249	May-20-2023	21:00	22:00	84.9	83.1	8.8	316
Henry Pirker	413249	May-21-2023	00:00	01:00	194.8	192.9	4	135
Henry Pirker	413249	May-21-2023	01:00	02:00	219	217.1	1.9	338
Henry Pirker	413249	May-21-2023	02:00	03:00	151.1	149.2	3.2	289
Henry Pirker	413249	May-21-2023	03:00	04:00	96.8	94.9	3.2	293
Henry Pirker	413249	May-21-2023	10:00	11:00	115.9	114.0	2.4	175
Henry Pirker	413249	May-21-2023	11:00	12:00	180.8	179.9	3.1	156
Henry Pirker	413249	May-21-2023	12:00	13:00	261.6	260.7	3.9	147

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	413249	May-21-2023	13:00	14:00	392	391.1	6.1	122
Henry Pirker	413249	May-21-2023	14:00	15:00	447.1	446.2	6.4	98
Henry Pirker	413249	May-21-2023	15:00	16:00	467.9	467.0	4.8	126
Henry Pirker	413249	May-21-2023	16:00	17:00	200.9	200.0	10.5	237
Henry Pirker	413605	May-22-2023	10:00	11:00	86.8	84.9	2.1	287
Henry Pirker	413605	May-22-2023	11:00	12:00	100.8	98.9	1.7	331
Henry Pirker	413605	May-22-2023	12:00	13:00	146.8	144.9	4.9	65
Henry Pirker	413605	May-22-2023	13:00	14:00	179.8	177.9	5.2	52
Henry Pirker	413605	May-22-2023	14:00	15:00	173.5	171.6	5.5	44
Henry Pirker	413605	May-22-2023	15:00	16:00	180.7	178.9	5.8	40
Henry Pirker	413605	May-22-2023	16:00	17:00	194	192.2	6	41
Henry Pirker	413605	May-22-2023	17:00	18:00	164.3	162.5	5.9	41
Henry Pirker	413605	May-22-2023	18:00	19:00	128.7	126.9	5.6	33
Henry Pirker	414466	Jun-07-2023	14:00	15:00	104.1	103.2	10	285
Henry Pirker	414466	Jun-07-2023	15:00	16:00	118.7	117.8	11	308
Henry Pirker	414466	Jun-07-2023	16:00	17:00	111.2	110.3	8.4	340
Henry Pirker	414466	Jun-07-2023	17:00	18:00	94.6	93.6	7.2	326
Henry Pirker	414466	Jun-08-2023	07:00	08:00	81.9	80.0	4.6	69
Henry Pirker	414466	Jun-09-2023	06:00	07:00	81.8	79.9	9.8	80
Henry Pirker	414466	Jun-09-2023	18:00	19:00	105.2	104.2	9.2	112
Henry Pirker	414466	Jun-10-2023	03:00	04:00	92.4	90.5	5.3	252
Henry Pirker	414466	Jun-10-2023	04:00	05:00	148	146.2	6.5	237
Henry Pirker	414466	Jun-10-2023	05:00	06:00	93.9	92.0	7.9	247
Henry Pirker	414466	Jun-10-2023	06:00	07:00	193.3	191.5	6.8	239
Henry Pirker	414466	Jun-10-2023	14:00	15:00	135.8	134.9	13.9	279
Henry Pirker	414466	Jun-10-2023	15:00	16:00	126	125.0	16.3	287
Henry Pirker	414466	Jun-10-2023	16:00	17:00	155.6	154.7	15.4	296
Henry Pirker	414466	Jun-11-2023	11:00	12:00	87.3	86.3	8.8	267
Henry Pirker	414466	Jun-11-2023	12:00	13:00	114.7	113.7	8.9	279
Henry Pirker	414466	Jun-11-2023	13:00	14:00	114.8	113.8	10.2	288
Henry Pirker	414466	Jun-11-2023	14:00	15:00	106	105.1	12.1	308
Henry Pirker	414466	Jun-11-2023	15:00	16:00	95.6	94.7	12.1	292
Henry Pirker	414466	Jun-11-2023	16:00	17:00	107	106.1	8.8	301
Henry Pirker	414466	Jun-11-2023	17:00	18:00	118.7	117.8	7.4	313
Henry Pirker	414466	Jun-11-2023	18:00	19:00	122.9	122.0	5.4	317
Henry Pirker	414466	Jun-11-2023	19:00	20:00	124	123.1	1.7	293
Henry Pirker	414466	Jun-11-2023	20:00	21:00	128.4	127.5	2.8	75
Henry Pirker	414466	Jun-11-2023	21:00	22:00	123.1	122.2	3	111
Henry Pirker	414466	Jun-11-2023	22:00	23:00	127.5	125.6	1.4	88
Henry Pirker	414788	Jun-12-2023	23:00	00:00	109.3	107.5	2.9	158
Henry Pirker	414788	Jun-12-2023	00:00	01:00	91	89.1	2.3	176
Henry Pirker	414788	Jun-12-2023	01:00	02:00	112.5	110.6	1	87
Henry Pirker	414788	Jun-12-2023	02:00	03:00	122.1	120.2	0.4	162
Henry Pirker	414788	Jun-12-2023	03:00	04:00	118.1	116.3	0.8	348
Henry Pirker	414788	Jun-12-2023	04:00	05:00	118.5	116.6	2.6	285
Henry Pirker	414788	Jun-12-2023	05:00	06:00	114.6	112.7	2.5	287
Henry Pirker	414788	Jun-12-2023	06:00	07:00	110.7	108.8	2.3	295
Henry Pirker	414788	Jun-12-2023	14:00	15:00	131.2	130.2	12.4	294
Henry Pirker	414788	Jun-12-2023	15:00	16:00	85.1	84.1	12	288
Henry Pirker	414788	Jun-12-2023	16:00	17:00	132.1	131.2	10	289
Henry Pirker	414788	Jun-12-2023	17:00	18:00	133.4	132.5	8.1	303
Henry Pirker	414788	Jun-12-2023	18:00	19:00	131	130.1	8	307
Henry Pirker	414788	Jun-12-2023	19:00	20:00	136.7	135.8	5.5	320
Henry Pirker	414788	Jun-12-2023	20:00	21:00	158.6	157.6	1	253
Henry Pirker	414788	Jun-12-2023	21:00	22:00	162.6	161.7	2.4	152
Henry Pirker	414788	Jun-12-2023	22:00	23:00	171	169.1	2.2	130
Henry Pirker	414788	Jun-13-2023	23:00	00:00	164	162.2	2.4	112
Henry Pirker	414788	Jun-13-2023	00:00	01:00	164.6	162.7	2.7	119
Henry Pirker	414788	Jun-13-2023	01:00	02:00	150.1	148.3	2.7	142
Henry Pirker	414788	Jun-13-2023	02:00	03:00	149.9	148.0	1.8	159

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	414788	Jun-13-2023	03:00	04:00	154.3	152.5	1.7	294
Henry Pirker	414788	Jun-13-2023	04:00	05:00	138.5	136.6	2.8	351
Henry Pirker	414788	Jun-13-2023	05:00	06:00	127.5	125.6	7.3	325
Henry Pirker	414788	Jun-13-2023	06:00	07:00	141.5	139.6	7	312
Henry Pirker	414788	Jun-13-2023	07:00	08:00	123.3	121.4	11.8	310
Henry Pirker	414788	Jun-13-2023	19:00	20:00	81.2	79.4	8.9	310
Henry Pirker	414788	Jun-14-2023	04:00	05:00	81	79.2	9.9	305
Henry Pirker	414788	Jun-14-2023	05:00	06:00	87.2	85.4	11.7	291
Henry Pirker	414788	Jun-14-2023	06:00	07:00	150.8	148.9	14.4	287
Henry Pirker	414788	Jun-14-2023	07:00	08:00	214.2	212.3	12.7	288
Henry Pirker	414788	Jun-14-2023	08:00	09:00	280	278.2	12.7	305
Henry Pirker	414788	Jun-14-2023	09:00	10:00	304.8	302.9	14.3	306
Henry Pirker	414788	Jun-14-2023	10:00	11:00	339.6	337.8	15.1	311
Henry Pirker	414788	Jun-14-2023	11:00	12:00	252.2	250.4	14.2	329
Henry Pirker	414788	Jun-14-2023	12:00	13:00	219.8	217.9	11	306
Henry Pirker	414788	Jun-14-2023	13:00	14:00	299.5	297.6	13.5	299
Henry Pirker	414788	Jun-14-2023	14:00	15:00	302.3	300.4	14.5	305
Henry Pirker	414788	Jun-14-2023	15:00	16:00	292.4	290.5	11.4	292
Henry Pirker	414788	Jun-14-2023	16:00	17:00	233.7	231.8	10.7	295
Henry Pirker	414788	Jun-14-2023	17:00	18:00	107.3	105.5	15.2	305
Henry Pirker	414788	Jun-14-2023	20:00	21:00	86.1	84.3	10.9	303
Henry Pirker	414788	Jun-14-2023	21:00	22:00	104.5	102.7	9.6	300
Henry Pirker	414788	Jun-14-2023	22:00	23:00	104.2	102.3	8.9	300
Henry Pirker	414788	Jun-15-2023	23:00	00:00	97.7	95.8	6.8	293
Henry Pirker	414788	Jun-15-2023	00:00	01:00	83.5	81.6	4.9	276
Henry Pirker	414788	Jun-15-2023	06:00	07:00	80.8	78.9	2.8	221
Henry Pirker	414788	Jun-15-2023	07:00	08:00	86.4	84.5	4.1	232
Henry Pirker	415788	Jul-02-2023	22:00	23:00	183.9	182.0	10.6	247
Henry Pirker	416557	Jul-10-2023	13:00	14:00	101	100.1	4.8	307
Henry Pirker	416557	Jul-10-2023	14:00	15:00	164	163.0	6.7	293
Henry Pirker	416557	Jul-10-2023	15:00	16:00	247.7	246.8	7.6	298
Henry Pirker	416557	Jul-10-2023	16:00	17:00	219.8	218.9	6.3	222
Henry Pirker	416557	Jul-10-2023	17:00	18:00	214.6	213.7	6.4	214
Henry Pirker	416557	Jul-10-2023	18:00	19:00	147.5	146.6	11.5	181
Henry Pirker	416557	Jul-11-2023	15:00	16:00	81.3	80.4	7.2	239
Henry Pirker	416557	Jul-11-2023	16:00	17:00	101.6	100.7	5.3	285
Henry Pirker	416557	Jul-11-2023	17:00	18:00	92.3	91.4	4.3	290
Henry Pirker	416557	Jul-11-2023	18:00	19:00	93.5	92.6	1.4	253
Henry Pirker	416557	Jul-11-2023	19:00	20:00	100.3	99.4	2.2	188
Henry Pirker	416557	Jul-11-2023	20:00	21:00	97.5	96.6	3.8	138
Henry Pirker	416557	Jul-11-2023	21:00	22:00	88.7	87.8	3.6	132
Henry Pirker	416557	Jul-11-2023	22:00	23:00	89.2	87.4	3.7	152
Henry Pirker	416557	Jul-12-2023	23:00	00:00	90.7	88.8	4.4	149
Henry Pirker	416557	Jul-12-2023	02:00	03:00	85	83.1	6.5	261
Henry Pirker	416557	Jul-12-2023	03:00	04:00	95.6	93.8	6.3	250
Henry Pirker	416557	Jul-12-2023	04:00	05:00	110	108.2	2.9	283
Henry Pirker	416557	Jul-12-2023	05:00	06:00	104.4	102.5	2	289
Henry Pirker	416557	Jul-12-2023	06:00	07:00	95	93.1	4	264
Henry Pirker	416557	Jul-12-2023	07:00	08:00	137	135.1	6.2	253
Henry Pirker	416557	Jul-12-2023	08:00	09:00	125.3	124.4	6.3	275
Henry Pirker	416557	Jul-12-2023	09:00	10:00	94.8	93.9	9.7	277
Henry Pirker	416557	Jul-12-2023	10:00	11:00	88.8	87.9	9.7	279
Henry Pirker	416557	Jul-12-2023	11:00	12:00	93.1	92.2	8.7	274
Henry Pirker	416557	Jul-12-2023	12:00	13:00	105.3	104.4	8.1	276
Henry Pirker	416557	Jul-12-2023	13:00	14:00	97.8	96.9	7.9	287
Henry Pirker	416557	Jul-12-2023	14:00	15:00	87.4	86.4	9.1	282
Henry Pirker	416557	Jul-12-2023	15:00	16:00	84	83.1	9.3	264
Henry Pirker	416557	Jul-12-2023	16:00	17:00	94.9	94.0	8.3	238
Henry Pirker	416557	Jul-12-2023	17:00	18:00	108.9	108.0	9.2	223
Henry Pirker	416557	Jul-12-2023	18:00	19:00	149.6	148.7	8	262

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	416557	Jul-12-2023	19:00	20:00	245.2	244.2	4.8	304
Henry Pirker	416557	Jul-12-2023	20:00	21:00	231.1	230.2	2.7	295
Henry Pirker	416557	Jul-12-2023	21:00	22:00	220.9	219.1	1.8	263
Henry Pirker	416557	Jul-12-2023	22:00	23:00	220.4	218.5	2.9	286
Henry Pirker	416557	Jul-13-2023	23:00	00:00	205.5	203.6	2.5	309
Henry Pirker	416557	Jul-13-2023	00:00	01:00	197	195.1	2.7	284
Henry Pirker	416557	Jul-13-2023	01:00	02:00	193	191.1	1.9	246
Henry Pirker	416557	Jul-13-2023	02:00	03:00	179	177.2	3.5	248
Henry Pirker	416557	Jul-13-2023	03:00	04:00	175.7	173.8	3.5	287
Henry Pirker	416557	Jul-13-2023	04:00	05:00	178.2	176.4	1.6	317
Henry Pirker	416557	Jul-13-2023	05:00	06:00	184.3	182.4	4.4	294
Henry Pirker	416557	Jul-13-2023	06:00	07:00	171.6	169.7	2.4	268
Henry Pirker	416557	Jul-13-2023	07:00	08:00	106.3	104.4	5.9	291
Henry Pirker	416557	Jul-13-2023	09:00	10:00	85.9	85.0	9.1	236
Henry Pirker	416557	Jul-15-2023	23:00	00:00	83.1	81.2	0.1	124
Henry Pirker	416557	Jul-15-2023	00:00	01:00	86.1	84.3	0.8	298
Henry Pirker	416557	Jul-15-2023	16:00	17:00	129.5	128.5	8	222
Henry Pirker	416557	Jul-15-2023	17:00	18:00	129.4	128.5	5.6	214
Henry Pirker	416557	Jul-15-2023	18:00	19:00	163.6	162.6	3.7	222
Henry Pirker	416557	Jul-15-2023	19:00	20:00	225.8	224.8	4.4	215
Henry Pirker	416557	Jul-15-2023	20:00	21:00	221.3	220.4	4.3	187
Henry Pirker	416557	Jul-15-2023	21:00	22:00	219	217.1	3.5	171
Henry Pirker	416557	Jul-15-2023	22:00	23:00	210.4	208.6	2.4	203
Henry Pirker	416557	Jul-16-2023	23:00	00:00	211.1	209.2	2.5	153
Henry Pirker	416557	Jul-16-2023	00:00	01:00	196	194.1	2.4	140
Henry Pirker	416557	Jul-16-2023	01:00	02:00	182.9	181.1	1.2	151
Henry Pirker	416557	Jul-16-2023	02:00	03:00	199.9	198.0	1.5	202
Henry Pirker	416557	Jul-16-2023	03:00	04:00	224.7	222.9	1.2	295
Henry Pirker	416557	Jul-16-2023	04:00	05:00	204.7	202.8	3	169
Henry Pirker	416557	Jul-16-2023	05:00	06:00	175	173.1	2.9	225
Henry Pirker	416557	Jul-16-2023	06:00	07:00	164.6	162.7	2.4	237
Henry Pirker	416557	Jul-16-2023	07:00	08:00	155.4	153.5	1.6	192
Henry Pirker	416557	Jul-16-2023	08:00	09:00	149.5	147.6	4.1	231
Henry Pirker	416557	Jul-16-2023	09:00	10:00	142	141.0	2.9	269
Henry Pirker	416557	Jul-16-2023	10:00	11:00	144.8	143.9	2.8	283
Henry Pirker	416557	Jul-16-2023	11:00	12:00	145.1	144.2	1.8	177
Henry Pirker	416557	Jul-16-2023	12:00	13:00	155.4	154.4	2.7	176
Henry Pirker	416557	Jul-16-2023	13:00	14:00	159.7	158.8	2.6	156
Henry Pirker	416557	Jul-16-2023	14:00	15:00	158.3	157.4	1.6	91
Henry Pirker	416557	Jul-16-2023	15:00	16:00	153.3	152.3	4.5	77
Henry Pirker	416557	Jul-16-2023	16:00	17:00	151.2	150.3	3.6	100
Henry Pirker	416557	Jul-16-2023	17:00	18:00	141.3	140.3	5.3	119
Henry Pirker	416557	Jul-16-2023	18:00	19:00	114.5	113.6	4.7	135
Henry Pirker	416557	Jul-16-2023	19:00	20:00	125	124.0	5.4	317
Henry Pirker	416557	Jul-16-2023	20:00	21:00	116	114.1	10.6	329
Henry Pirker	416950	Jul-20-2023	21:00	22:00	82.6	81.6	5.1	68
Henry Pirker	416950	Jul-20-2023	22:00	23:00	81.2	79.3	6.1	79
Henry Pirker	416950	Jul-21-2023	23:00	00:00	81.2	79.3	6.1	81
Henry Pirker	416950	Jul-21-2023	00:00	01:00	80.4	78.5	5.3	78
Henry Pirker	416950	Jul-21-2023	01:00	02:00	80.1	78.2	3.3	75
Henry Pirker	416950	Jul-21-2023	02:00	03:00	80.4	78.5	1.8	38
Henry Pirker	418446	Aug-24-2023	10:00	11:00	88.6	86.7	6.2	290
Henry Pirker	418446	Aug-24-2023	11:00	12:00	95.8	94.0	7.9	287
Henry Pirker	418446	Aug-24-2023	12:00	13:00	106.3	104.5	6.5	290
Henry Pirker	418446	Aug-24-2023	13:00	14:00	109.9	108.0	2.5	263
Henry Pirker	418446	Aug-24-2023	14:00	15:00	103	101.2	3.9	184
Henry Pirker	418446	Aug-24-2023	15:00	16:00	80.9	79.0	5.5	192
Henry Pirker	418872	Aug-28-2023	15:00	16:00	93.6	92.7	8.3	231
Henry Pirker	418872	Aug-28-2023	16:00	17:00	111	110.1	7.1	221
Henry Pirker	418872	Aug-28-2023	17:00	18:00	112.4	111.5	4.3	193



Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	418872	Aug-28-2023	18:00	19:00	108.2	107.3	4.6	154
Henry Pirker	418872	Aug-28-2023	19:00	20:00	108.7	107.8	5.2	143
Henry Pirker	418872	Aug-28-2023	20:00	21:00	113.5	112.5	4.9	149
Henry Pirker	418872	Aug-28-2023	21:00	22:00	114.1	112.2	3.8	149
Henry Pirker	418872	Aug-28-2023	22:00	23:00	115.6	113.8	1.3	115
Henry Pirker	418872	Aug-29-2023	23:00	00:00	110.7	108.8	2.1	127
Henry Pirker	418872	Aug-29-2023	00:00	01:00	110.8	109.0	0.8	83
Henry Pirker	418872	Aug-29-2023	01:00	02:00	113.6	111.7	0.9	164
Henry Pirker	418872	Aug-29-2023	02:00	03:00	109.4	107.5	0.2	113
Henry Pirker	418872	Aug-29-2023	03:00	04:00	103.8	101.9	0.7	147
Henry Pirker	418872	Aug-29-2023	04:00	05:00	97.8	95.9	0.3	167
Henry Pirker	418872	Aug-29-2023	05:00	06:00	84	82.1	0.7	260
Henry Pirker	418872	Aug-29-2023	15:00	16:00	89.5	88.6	2.5	214
Henry Pirker	418872	Aug-29-2023	16:00	17:00	126.1	125.2	4.4	270
Henry Pirker	418872	Aug-29-2023	17:00	18:00	143.1	142.2	4.9	311
Henry Pirker	418872	Aug-29-2023	18:00	19:00	187.4	186.5	3.1	315
Henry Pirker	418872	Aug-29-2023	19:00	20:00	213.6	212.7	0.6	46
Henry Pirker	418872	Aug-29-2023	20:00	21:00	216.5	214.6	0.8	331
Henry Pirker	418872	Aug-29-2023	21:00	22:00	219.1	217.2	2.2	299
Henry Pirker	418872	Aug-29-2023	22:00	23:00	227.2	225.4	1.7	316
Henry Pirker	418872	Aug-30-2023	23:00	00:00	212.8	211.0	2	290
Henry Pirker	418872	Aug-30-2023	00:00	01:00	201.2	199.4	3.5	254
Henry Pirker	418872	Aug-30-2023	01:00	02:00	160.6	158.7	2.7	295
Henry Pirker	418872	Aug-30-2023	02:00	03:00	165.8	163.9	2.5	301
Henry Pirker	418872	Aug-30-2023	03:00	04:00	161	159.2	2.1	306
Henry Pirker	418872	Aug-30-2023	04:00	05:00	137	135.1	2	303
Henry Pirker	418872	Aug-30-2023	05:00	06:00	123.1	121.2	2.6	291
Henry Pirker	418872	Aug-30-2023	06:00	07:00	95.8	93.9	3.2	293
Henry Pirker	418872	Aug-30-2023	07:00	08:00	87.4	85.6	1.9	271
Henry Pirker	418872	Aug-30-2023	09:00	10:00	86.9	85.1	8.2	238
Henry Pirker	418872	Aug-30-2023	10:00	11:00	104.5	103.6	10.3	255
Henry Pirker	418872	Aug-30-2023	11:00	12:00	109.6	108.7	10.3	274
Henry Pirker	418872	Aug-30-2023	12:00	13:00	111.1	110.1	11.6	272
Henry Pirker	418872	Aug-30-2023	13:00	14:00	109.5	108.6	12.8	272
Henry Pirker	418872	Aug-30-2023	14:00	15:00	101.9	101.0	14.2	263
Henry Pirker	418872	Aug-30-2023	15:00	16:00	93.6	92.7	14.6	272
Henry Pirker	418872	Aug-30-2023	16:00	17:00	91.5	90.6	15.6	257
Henry Pirker	418872	Sep-01-2023	22:00	23:00	80.2	78.3	10	247
Henry Pirker	418872	Sep-02-2023	02:00	03:00	117.9	116.0	13.7	278
Henry Pirker	418872	Sep-02-2023	03:00	04:00	95.2	93.3	12.7	281
Henry Pirker	418872	Sep-02-2023	11:00	12:00	102.8	101.9	18.2	284
Henry Pirker	418872	Sep-02-2023	20:00	21:00	91.4	89.6	3.5	250
Henry Pirker	418872	Sep-02-2023	21:00	22:00	98.7	96.9	1.6	249
Henry Pirker	418872	Sep-02-2023	22:00	23:00	93.3	91.4	2.3	199
Henry Pirker	418872	Sep-03-2023	23:00	00:00	93.8	91.9	1.9	182
Henry Pirker	418872	Sep-03-2023	04:00	05:00	185.1	183.2	10	251
Henry Pirker	418872	Sep-03-2023	05:00	06:00	248.1	246.2	5	211
Henry Pirker	418872	Sep-03-2023	06:00	07:00	232.9	231.1	7	205
Henry Pirker	418872	Sep-03-2023	07:00	08:00	234	232.1	7	216
Henry Pirker	418872	Sep-03-2023	08:00	09:00	204.2	202.3	10.5	230
Henry Pirker	418872	Sep-03-2023	09:00	10:00	171.2	169.3	13	238
Henry Pirker	418872	Sep-03-2023	10:00	11:00	152.8	151.0	17.7	270
Henry Pirker	418872	Sep-03-2023	11:00	12:00	108.3	106.4	20.6	297
Henry Pirker	418872	Sep-03-2023	12:00	13:00	123.9	122.0	19.5	311
Henry Pirker	418872	Sep-03-2023	13:00	14:00	233	231.1	16.4	317
Henry Pirker	418872	Sep-03-2023	14:00	15:00	240	238.1	8.5	351
Henry Pirker	418872	Sep-03-2023	15:00	16:00	218.9	217.1	6.4	12
Henry Pirker	418872	Sep-03-2023	16:00	17:00	236.8	234.9	6.3	19
Henry Pirker	418872	Sep-03-2023	17:00	18:00	250.8	248.9	4	30
Henry Pirker	418872	Sep-03-2023	18:00	19:00	235	233.1	2.9	346

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	418872	Sep-03-2023	19:00	20:00	228.1	226.2	6.7	332
Henry Pirker	419608	Sep-11-2023	12:00	13:00	92.1	91.2	9.2	270
Henry Pirker	419608	Sep-11-2023	13:00	14:00	184.8	183.8	10.9	268
Henry Pirker	419608	Sep-11-2023	14:00	15:00	173.8	172.9	8.7	279
Henry Pirker	419608	Sep-11-2023	15:00	16:00	151	150.0	7.6	293
Henry Pirker	419608	Sep-13-2023	20:00	21:00	80.8	79.0	14.3	241
Henry Pirker	419608	Sep-13-2023	21:00	22:00	93.1	91.2	12.6	237
Henry Pirker	419608	Sep-13-2023	22:00	23:00	94.4	92.5	10.2	241
Henry Pirker	419608	Sep-14-2023	00:00	01:00	100.4	98.5	6.6	229
Henry Pirker	419608	Sep-14-2023	01:00	02:00	136.6	134.7	2.3	205
Henry Pirker	419608	Sep-14-2023	02:00	03:00	114.3	112.4	3.1	238
Henry Pirker	419608	Sep-14-2023	03:00	04:00	108.3	106.4	2.1	221
Henry Pirker	419608	Sep-14-2023	04:00	05:00	128.1	126.2	3.5	248
Henry Pirker	419608	Sep-14-2023	05:00	06:00	139.2	137.3	1.3	300
Henry Pirker	419608	Sep-14-2023	06:00	07:00	122.8	120.9	1.6	226
Henry Pirker	419608	Sep-14-2023	07:00	08:00	91	89.1	4.7	237
Henry Pirker	419608	Sep-16-2023	23:00	00:00	113.7	111.8	1.1	17
Henry Pirker	419608	Sep-16-2023	00:00	01:00	160	158.1	3.4	273
Henry Pirker	419608	Sep-16-2023	01:00	02:00	276.2	274.3	0.4	166
Henry Pirker	419608	Sep-16-2023	02:00	03:00	285.6	283.8	1	165
Henry Pirker	419608	Sep-16-2023	03:00	04:00	337.4	335.5	1.2	125
Henry Pirker	419608	Sep-16-2023	04:00	05:00	321	319.1	3.5	143
Henry Pirker	419608	Sep-16-2023	05:00	06:00	283.2	281.3	5.2	154
Henry Pirker	419608	Sep-16-2023	06:00	07:00	294.6	292.7	2.3	146
Henry Pirker	419608	Sep-16-2023	07:00	08:00	382.4	380.5	3.7	151
Henry Pirker	419608	Sep-16-2023	08:00	09:00	424.4	422.5	3.4	158
Henry Pirker	419608	Sep-16-2023	09:00	10:00	366.9	365.1	2.9	163
Henry Pirker	419608	Sep-16-2023	10:00	11:00	301.9	300.0	2.5	180
Henry Pirker	419608	Sep-16-2023	11:00	12:00	259.9	258.0	2.8	206
Henry Pirker	419608	Sep-16-2023	12:00	13:00	272.7	271.8	3.3	198
Henry Pirker	419608	Sep-16-2023	13:00	14:00	256.4	255.5	1.1	134
Henry Pirker	419608	Sep-16-2023	14:00	15:00	241.5	240.6	4.3	118
Henry Pirker	419608	Sep-16-2023	15:00	16:00	202.2	201.3	6.8	104
Henry Pirker	419608	Sep-16-2023	16:00	17:00	216.5	215.6	5.2	114
Henry Pirker	419608	Sep-16-2023	17:00	18:00	208.8	206.9	4.9	95
Henry Pirker	419608	Sep-16-2023	18:00	19:00	237.4	235.6	3	95
Henry Pirker	419608	Sep-16-2023	19:00	20:00	308	306.1	3.4	82
Henry Pirker	419608	Sep-16-2023	20:00	21:00	310.5	308.7	2.5	10
Henry Pirker	419608	Sep-16-2023	21:00	22:00	299.9	298.0	3.5	53
Henry Pirker	419608	Sep-16-2023	22:00	23:00	297	295.2	5.5	75
Henry Pirker	419608	Sep-17-2023	23:00	00:00	298.2	296.3	5.2	103
Henry Pirker	419608	Sep-17-2023	00:00	01:00	286.4	284.6	3.3	272
Henry Pirker	419608	Sep-17-2023	01:00	02:00	281.3	279.5	5.3	314
Henry Pirker	419608	Sep-17-2023	02:00	03:00	261.1	259.2	6.7	260
Henry Pirker	419608	Sep-17-2023	03:00	04:00	200.6	198.7	7.5	274
Henry Pirker	419608	Sep-17-2023	04:00	05:00	190	188.2	4.8	264
Henry Pirker	419608	Sep-17-2023	05:00	06:00	185	183.1	3.5	274
Henry Pirker	419608	Sep-17-2023	06:00	07:00	178.6	176.7	5.7	296
Henry Pirker	419608	Sep-17-2023	07:00	08:00	176.2	174.3	3.5	212
Henry Pirker	419608	Sep-17-2023	08:00	09:00	185.5	183.6	5.7	244
Henry Pirker	419608	Sep-17-2023	09:00	10:00	196.3	194.4	6.9	229
Henry Pirker	419608	Sep-17-2023	10:00	11:00	211.1	209.2	6.3	229
Henry Pirker	419608	Sep-17-2023	11:00	12:00	206.3	204.5	5.2	223
Henry Pirker	419608	Sep-17-2023	12:00	13:00	200.7	198.8	6.4	213
Henry Pirker	419608	Sep-17-2023	13:00	14:00	210.1	209.2	6.6	200
Henry Pirker	419608	Sep-17-2023	14:00	15:00	203.1	202.2	7.7	197
Henry Pirker	419608	Sep-17-2023	15:00	16:00	213.9	212.0	7	165
Henry Pirker	419608	Sep-17-2023	16:00	17:00	223.1	221.2	5.5	173
Henry Pirker	419608	Sep-17-2023	17:00	18:00	184.4	182.6	4.9	205
Henry Pirker	419608	Sep-17-2023	18:00	19:00	161.7	159.9	2.7	207

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	419608	Sep-17-2023	19:00	20:00	157.2	155.3	3.8	117
Henry Pirker	419608	Sep-17-2023	20:00	21:00	190.2	188.4	3.5	115
Henry Pirker	419608	Sep-17-2023	21:00	22:00	188.2	186.3	4.6	119
Henry Pirker	419608	Sep-17-2023	22:00	23:00	180.1	178.2	3.3	124
Henry Pirker	419949	Sep-18-2023	23:00	00:00	105.4	103.6	12.4	289
Henry Pirker	419949	Sep-20-2023	10:00	11:00	80	78.2	7.5	292
Henry Pirker	419949	Sep-20-2023	11:00	12:00	96.6	94.7	6.2	294
Henry Pirker	419949	Sep-20-2023	12:00	13:00	126.4	124.6	1.3	254
Henry Pirker	419949	Sep-20-2023	13:00	14:00	143.4	141.5	1.7	150
Henry Pirker	419949	Sep-20-2023	14:00	15:00	154.8	152.9	0.5	289
Henry Pirker	419949	Sep-20-2023	15:00	16:00	169.4	167.5	1.2	305
Henry Pirker	419949	Sep-20-2023	16:00	17:00	141.4	139.5	2.5	252
Henry Pirker	419949	Sep-20-2023	17:00	18:00	126.4	124.5	4.8	185
Henry Pirker	419949	Sep-20-2023	18:00	19:00	128.4	126.5	4.8	157
Henry Pirker	419949	Sep-20-2023	19:00	20:00	117.2	115.3	5.1	151
Henry Pirker	419949	Sep-20-2023	20:00	21:00	100.8	98.9	4.6	149
Henry Pirker	419949	Sep-20-2023	21:00	22:00	89.7	87.8	5	149
Henry Pirker	423459	Dec 31-2023	23:00	00:00	708.2	708.2	0.9	169
Milner	408386	Jan-06-2023	09:00	10:00	100	100.0	1.2	37
Milner	408386	Jan-06-2023	11:00	12:00	176.8	176.8	5.7	270
Milner	408386	Jan-06-2023	12:00	13:00	132.2	132.2	6.4	244
Milner	408387	Jan-07-2023	11:00	12:00	105.9	105.9	0.38	247.92
Milner	408421	Jan-08-2023	03:00	04:00	81.7	81.7	2.5	266
Milner	410869	Mar-22-2023	03:00	04:00	91.1	91.1	1.8	272
Milner	411230	Mar-31-2023	04:00	05:00	108.6	108.6	0.5	274
Milner	411230	Mar-31-2023	05:00	06:00	156.2	156.2	1.1	256
Milner	411230	Mar-31-2023	16:00	17:00	89.3	89.3	11.6	223
Milner	411230	Mar-31-2023	17:00	18:00	86.4	86.4	8.3	223
Milner	411249	Apr-01-2023	05:00	06:00	132	132.0	0.9	275
Milner	411249	Apr-01-2023	06:00	07:00	90.9	90.9	0	258
Milner	411249	Apr-01-2023	07:00	08:00	107.8	107.8	2.4	264
Milner	411249	Apr-01-2023	16:00	17:00	83.2	83.2	11.4	230
Milner	411249	Apr-01-2023	17:00	18:00	84	84.0	5.6	234
Milner	411266	Apr-02-2023	23:00	00:00	85.3	85.3	4.7	277
Milner	411266	Apr-02-2023	01:00	02:00	105.5	105.5	6.4	272
Milner	411266	Apr-02-2023	04:00	05:00	101.2	101.2	4.7	275
Milner	411266	Apr-02-2023	14:00	15:00	99.2	99.2	7.4	220
Milner	411266	Apr-02-2023	16:00	17:00	105.9	105.9	4.4	245
Milner	411294	Apr-03-2023	00:00	01:00	129.6	129.6	1	276
Milner	411294	Apr-03-2023	04:00	05:00	124.6	124.6	8.3	259
Milner	411294	Apr-03-2023	07:00	08:00	92.5	92.5	11.4	244
Milner	411294	Apr-03-2023	08:00	09:00	81.5	81.5	12.2	249
Milner	411294	Apr-03-2023	17:00	18:00	125.3	125.3	1.4	68
Milner	411339	Apr-04-2023	03:00	04:00	108.4	108.4	0.7	280
Milner	411339	Apr-04-2023	04:00	05:00	165.5	165.5	3	265
Milner	411339	Apr-04-2023	16:00	17:00	84	84.0	4.9	88
Milner	411339	Apr-04-2023	17:00	18:00	94.8	94.8	0.6	299
Milner	411393	Apr-05-2023	02:00	03:00	88.6	88.6	0	316
Milner	411393	Apr-05-2023	03:00	04:00	80.9	80.9	0	327
Milner	411393	Apr-05-2023	04:00	05:00	209.1	209.1	0	335
Milner	411393	Apr-05-2023	05:00	06:00	329.1	329.1	0	257
Milner	411393	Apr-05-2023	06:00	07:00	294.9	294.9	0.1	277
Milner	411393	Apr-05-2023	07:00	08:00	232.6	232.6	0.4	229
Milner	411393	Apr-05-2023	10:00	11:00	89	89.0	8.3	215
Milner	411393	Apr-05-2023	15:00	16:00	93.5	93.5	15.9	232
Milner	411393	Apr-05-2023	16:00	17:00	145.8	145.8	16.9	226
Milner	411393	Apr-05-2023	17:00	18:00	85.5	85.5	13.4	221
Milner	411441	Apr-06-2023	04:00	05:00	84.7	84.7	0.8	287
Milner	411441	Apr-06-2023	05:00	06:00	83.8	83.8	0.9	271
Milner	411441	Apr-06-2023	07:00	08:00	282.4	282.4	0.8	258

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Milner	411441	Apr-06-2023	08:00	09:00	112.1	112.1	1.1	250
Milner	411441	Apr-06-2023	09:00	10:00	87	87.0	2.1	249
Milner	411441	Apr-06-2023	13:00	14:00	80.4	80.4	15.3	236
Milner	411441	Apr-06-2023	16:00	17:00	110	110.0	11.8	227
Milner	411441	Apr-06-2023	17:00	18:00	212.8	212.8	13.6	245
Milner	411460	Apr-07-2023	07:00	08:00	101.6	101.6	0.1	233
Milner	411460	Apr-07-2023	16:00	17:00	137.7	137.7	17	231
Milner	411460	Apr-07-2023	17:00	18:00	199.4	199.4	17.6	243
Milner	411507	Apr-09-2023	14:00	15:00	87.1	87.1	28.2	240
Milner	411507	Apr-09-2023	17:00	18:00	91.1	91.1	20.8	244
Milner	411610	Apr-11-2023	05:00	06:00	96.8	96.8	0	66
Milner	411739	Apr-15-2023	06:00	07:00	94.6	94.6	0.9	264
Milner	411739	Apr-15-2023	16:00	17:00	103.9	103.9	13.7	227
Milner	411739	Apr-15-2023	17:00	18:00	117.4	117.4	12.4	226
Milner	411739	Apr-15-2023	20:00	21:00	107.1	107.1	8.4	243
Milner	411739	Apr-15-2023	21:00	22:00	84.5	84.5	4.6	250
Milner	411801	Apr-16-2023	02:00	03:00	83.4	83.4	0.1	351
Milner	411801	Apr-16-2023	04:00	05:00	119.1	119.1	0.4	56
Milner	411801	Apr-16-2023	05:00	06:00	234.2	234.2	0.3	291
Milner	411801	Apr-16-2023	16:00	17:00	147.8	147.8	11.7	237
Milner	411801	Apr-16-2023	17:00	18:00	219.1	219.1	16.1	240
Milner	411801	Apr-16-2023	18:00	19:00	98.1	98.1	14.6	250
Milner	411801	Apr-16-2023	21:00	22:00	94.2	94.2	4.4	272
Milner	411801	Apr-16-2023	22:00	23:00	114.1	114.1	0.5	284
Milner	411801	Apr-17-2023	01:00	02:00	118.3	118.3	10.3	263
Milner	411801	Apr-17-2023	05:00	06:00	156.9	156.9	18	244
Milner	411801	Apr-17-2023	06:00	07:00	132.7	132.7	20.1	254
Milner	411801	Apr-17-2023	07:00	08:00	90.1	90.1	18.8	260
Milner	411801	Apr-17-2023	08:00	09:00	237.1	237.1	23.8	259
Milner	411801	Apr-17-2023	09:00	10:00	115.5	115.5	24.4	233
Milner	411801	Apr-17-2023	10:00	11:00	109.1	109.1	25.5	240
Milner	411801	Apr-17-2023	12:00	13:00	150.6	150.6	24	243
Milner	411801	Apr-17-2023	14:00	15:00	96.2	96.2	22	230
Milner	411801	Apr-17-2023	17:00	18:00	110.3	110.3	15.8	232
Milner	411801	Apr-18-2023	01:00	02:00	161.5	161.5	1.8	281
Milner	411801	Apr-18-2023	02:00	03:00	105.5	105.5	0.8	349
Milner	411801	Apr-18-2023	03:00	04:00	125.9	125.9	1.6	293
Milner	411801	Apr-18-2023	04:00	05:00	157.3	157.3	0.5	292
Milner	411801	Apr-18-2023	05:00	06:00	344.8	344.8	2.6	269
Milner	411801	Apr-18-2023	06:00	07:00	145.6	145.6	3.1	267
Milner	411801	Apr-18-2023	07:00	08:00	131.9	131.9	4.2	243
Milner	412615	May-05-2023	17:00	18:00	132.5	132.5	11.6	79
Milner	412615	May-05-2023	18:00	19:00	161.1	161.1	12.4	84
Milner	412615	May-05-2023	19:00	20:00	148.4	148.4	16.2	74
Milner	412615	May-05-2023	20:00	21:00	124.9	124.9	15.7	69
Milner	412615	May-05-2023	21:00	22:00	81.5	81.5	7.3	44
Milner	412615	May-06-2023	01:00	02:00	98.7	98.7	8.1	34
Milner	412615	May-06-2023	02:00	03:00	104.3	104.3	9.4	43
Milner	412615	May-06-2023	03:00	04:00	111.8	111.8	8.4	54
Milner	412615	May-06-2023	04:00	05:00	119.2	119.2	7.5	65
Milner	412615	May-06-2023	05:00	06:00	135.4	135.4	4.9	49
Milner	412615	May-06-2023	06:00	07:00	111	111.0	1	276
Milner	412615	May-06-2023	08:00	09:00	148	148.0	3.4	63
Milner	412615	May-06-2023	09:00	10:00	188.2	188.2	4.4	69
Milner	412615	May-06-2023	10:00	11:00	138.7	138.7	6.9	54
Milner	412615	May-06-2023	11:00	12:00	105.2	105.2	8.9	92
Milner	412615	May-06-2023	12:00	13:00	80.9	80.9	9.9	89
Milner	412615	May-06-2023	14:00	15:00	124.5	124.5	13.6	76
Milner	412615	May-06-2023	15:00	16:00	88.4	88.4	10.2	74
Milner	412615	May-06-2023	16:00	17:00	89.4	89.4	11.2	76

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Milner	412615	May-06-2023	17:00	18:00	178.6	178.6	9.3	87
Milner	412615	May-06-2023	18:00	19:00	252.2	252.2	8.6	81
Milner	412615	May-06-2023	19:00	20:00	218.7	218.7	10.5	71
Milner	412615	May-06-2023	20:00	21:00	236	236.0	12.2	63
Milner	412615	May-06-2023	21:00	22:00	175.3	175.3	6	37
Milner	412615	May-06-2023	22:00	23:00	86.4	86.4	3.9	41
Milner	413068	May-10-2023	08:00	09:00	98.4	98.4	2.7	246
Milner	413068	May-12-2023	02:00	03:00	172.9	172.9	3.2	281
Milner	413068	May-14-2023	18:00	19:00	85.5	85.5	4.3	71
Milner	413510	May-16-2023	01:00	02:00	101	101.0	1.4	56
Milner	413510	May-16-2023	02:00	03:00	212.3	212.3	1.4	70
Milner	413510	May-16-2023	03:00	04:00	192.3	192.3	0.5	42
Milner	413510	May-16-2023	04:00	05:00	126.2	126.2	0.4	41
Milner	413510	May-16-2023	05:00	06:00	113.3	113.3	1.4	47
Milner	413510	May-16-2023	06:00	07:00	141.8	141.8	0.5	29
Milner	413510	May-16-2023	07:00	08:00	166.9	166.9	0.8	49
Milner	413510	May-16-2023	08:00	09:00	149.9	149.9	3.5	65
Milner	413510	May-16-2023	09:00	10:00	127.4	127.4	1.7	86
Milner	413510	May-16-2023	10:00	11:00	88.2	88.2	2.6	100
Milner	413510	May-17-2023	02:00	03:00	139.9	139.9	0	319
Milner	413510	May-17-2023	03:00	04:00	128.7	128.7	0.1	340
Milner	413510	May-17-2023	04:00	05:00	97.3	97.3	0	315
Milner	413510	May-17-2023	05:00	06:00	88	88.0	0	272
Milner	413510	May-17-2023	06:00	07:00	83.6	83.6	0	266
Milner	413510	May-17-2023	07:00	08:00	91.6	91.6	0.1	231
Milner	413510	May-17-2023	10:00	11:00	84.2	84.2	1.7	196
Milner	413510	May-17-2023	11:00	12:00	98.9	98.9	1.1	183
Milner	413510	May-17-2023	18:00	19:00	89.9	89.9	7.5	63
Milner	413510	May-17-2023	19:00	20:00	123.4	123.4	6	55
Milner	413510	May-17-2023	20:00	21:00	100	100.0	2.7	44
Milner	413510	May-17-2023	21:00	22:00	108.5	108.5	0.9	26
Milner	413510	May-17-2023	22:00	23:00	113.2	113.2	0.8	15
Milner	413510	May-17-2023	23:00	00:00	126.9	126.9	0	1
Milner	413510	May-18-2023	00:00	01:00	192.8	192.8	2	54
Milner	413510	May-18-2023	01:00	02:00	179.3	179.3	0.4	353
Milner	413510	May-18-2023	02:00	03:00	187.2	187.2	0.1	349
Milner	413510	May-18-2023	03:00	04:00	184.6	184.6	0.1	31
Milner	413510	May-18-2023	04:00	05:00	173.5	173.5	0.5	268
Milner	413510	May-18-2023	05:00	06:00	169.7	169.7	1.1	280
Milner	413510	May-18-2023	06:00	07:00	166.9	166.9	2	272
Milner	413510	May-18-2023	07:00	08:00	161.9	161.9	0.2	229
Milner	413510	May-18-2023	08:00	09:00	160.5	160.5	0.1	218
Milner	413510	May-18-2023	09:00	10:00	172.5	172.5	1.2	229
Milner	413510	May-18-2023	10:00	11:00	170.4	170.4	3.6	223
Milner	413510	May-18-2023	11:00	12:00	163.7	163.7	1.4	198
Milner	413510	May-18-2023	12:00	13:00	152.3	152.3	1	149
Milner	413510	May-18-2023	13:00	14:00	152.1	152.1	2.8	119
Milner	413510	May-18-2023	14:00	15:00	154.1	154.1	3.6	101
Milner	413510	May-18-2023	15:00	16:00	141.8	141.8	3.1	78
Milner	413510	May-18-2023	16:00	17:00	124.3	124.3	4.2	64
Milner	413510	May-18-2023	17:00	18:00	90.5	90.5	1.4	195
Milner	413510	May-21-2023	14:00	15:00	80.3	80.3	3.3	343
Milner	415137	Jun-14-2023	15:00	16:00	86.8	86.8	2.4	244
Milner	415137	Jun-14-2023	16:00	17:00	86.3	86.3	3.2	242
Milner	415137	Jun-14-2023	17:00	18:00	83.1	83.1	5.7	243
Milner	416556	Jul-12-2023	16:00	17:00	93.8	93.8	3.9	238
Milner	416556	Jul-12-2023	17:00	18:00	106.8	106.8	0.3	263
Milner	416556	Jul-12-2023	18:00	19:00	98	98.0	0.3	329
Milner	416556	Jul-12-2023	19:00	20:00	111	111.0	0.2	340
Milner	416556	Jul-12-2023	20:00	21:00	109.1	109.1	0.2	336

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Milner	416556	Jul-12-2023	21:00	22:00	95.1	95.1	0.1	310
Milner	416556	Jul-12-2023	22:00	23:00	102.2	102.2	1.5	270
Milner	416556	Jul-13-2023	23:00	00:00	102.7	102.7	3.2	268
Milner	416556	Jul-13-2023	00:00	01:00	102.5	102.5	3	276
Milner	416556	Jul-13-2023	01:00	02:00	102	102.0	3.7	269
Milner	416556	Jul-13-2023	02:00	03:00	103.1	103.1	3.4	280
Milner	416556	Jul-13-2023	03:00	04:00	100.5	100.5	2.5	269
Milner	416556	Jul-13-2023	04:00	05:00	95.8	95.8	2.6	267
Milner	416556	Jul-13-2023	05:00	06:00	89.2	89.2	3.9	273
Milner	416556	Jul-13-2023	06:00	07:00	85.6	85.6	5.2	258
Milner	416556	Jul-13-2023	07:00	08:00	84.1	84.1	4.7	246
Milner	416556	Jul-13-2023	08:00	09:00	84	84.0	3.8	233
Milner	416556	Jul-13-2023	09:00	10:00	80.9	80.9	7.3	242
Milner	416556	Jul-13-2023	10:00	11:00	87	87.0	3.1	213
Milner	416556	Jul-13-2023	11:00	12:00	87.8	87.8	3	210
Milner	416556	Jul-13-2023	12:00	13:00	82	82.0	0.9	144
Milner	416556	Jul-15-2023	15:00	16:00	103.9	103.9	5.4	285
Milner	416556	Jul-15-2023	16:00	17:00	123.2	123.2	3.1	356
Milner	416556	Jul-15-2023	17:00	18:00	126.1	126.1	0.6	3
Milner	416556	Jul-15-2023	18:00	19:00	114.1	114.1	0.2	84
Milner	416556	Jul-15-2023	19:00	20:00	110.5	110.5	0.1	351
Milner	416556	Jul-15-2023	20:00	21:00	108.6	108.6	0.4	333
Milner	416556	Jul-15-2023	21:00	22:00	108.3	108.3	1.2	5
Milner	416556	Jul-15-2023	22:00	23:00	94	94.0	3	271
Milner	416556	Jul-16-2023	23:00	00:00	80	80.0	0.8	282
Milner	416949	Jul-20-2023	05:00	06:00	84	84.0	2.1	263
Milner	417820	Aug-07-2023	07:00	08:00	96.4	96.4	0.4	232
Milner	418170	Aug-17-2023	14:00	15:00	90.8	90.8	20.7	235
Milner	418452	Aug-21-2023	03:00	04:00	81.4	81.4	0.1	293
Milner	418452	Aug-22-2023	02:00	03:00	95	95.0	3.1	257
Milner	418875	Aug-28-2023	16:00	17:00	89.5	89.5	0.2	64
Milner	418875	Aug-30-2023	12:00	13:00	81.5	79.6	5.3	236
Milner	418875	Aug-30-2023	13:00	14:00	89.4	87.5	3.2	239
Milner	418875	Aug-30-2023	14:00	15:00	93.7	91.8	0.8	101
Milner	418875	Aug-30-2023	15:00	16:00	87.6	85.8	1.2	260
Milner	418875	Sep-02-2023	20:00	21:00	100.8	99.0	13.3	264
Milner	418875	Sep-02-2023	21:00	22:00	104.7	102.9	10.9	269
Milner	418875	Sep-02-2023	22:00	23:00	92.1	90.2	9.1	247
Milner	418875	Sep-03-2023	23:00	00:00	91.6	89.8	0.5	244
Milner	418875	Sep-03-2023	00:00	01:00	90.4	88.5	0.7	345
Milner	418875	Sep-03-2023	01:00	02:00	110.7	108.8	1.3	294
Milner	418875	Sep-03-2023	02:00	03:00	99.2	97.4	0.4	51
Milner	418875	Sep-03-2023	03:00	04:00	93.1	91.3	0.5	34
Milner	418875	Sep-03-2023	04:00	05:00	90.3	88.5	0.9	288
Milner	418875	Sep-03-2023	05:00	06:00	216.5	214.6	3.4	313
Milner	418875	Sep-03-2023	06:00	07:00	297.8	296.0	3.4	18
Milner	418875	Sep-03-2023	07:00	08:00	272.8	270.9	0.5	269
Milner	418875	Sep-03-2023	08:00	09:00	253.6	251.8	3.5	232
Milner	418875	Sep-03-2023	09:00	10:00	195.9	194.1	1.6	219
Milner	418875	Sep-03-2023	10:00	11:00	153.9	152.1	1.5	216
Milner	418875	Sep-03-2023	11:00	12:00	98.7	96.8	6.8	236
Milner	418875	Sep-03-2023	19:00	20:00	202	200.2	7.8	60
Milner	418875	Sep-03-2023	20:00	21:00	242.6	240.8	1.7	34
Milner	418875	Sep-03-2023	21:00	22:00	243.2	241.3	2.6	28
Milner	418875	Sep-03-2023	22:00	23:00	247.2	245.4	2.7	39
Milner	419194	Sep-04-2023	23:00	00:00	239.2	237.3	6.2	66
Milner	419194	Sep-04-2023	00:00	01:00	158	156.1	6.2	63
Milner	419194	Sep-04-2023	01:00	02:00	84.3	82.4	4.7	71
Milner	419194	Sep-04-2023	12:00	13:00	84.9	83.0	2.9	119
Milner	419194	Sep-04-2023	22:00	23:00	90.1	88.3	0.2	334

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Milner	419194	Sep-05-2023	23:00	00:00	90.6	88.7	0	359
Milner	419194	Sep-05-2023	00:00	01:00	89.5	87.7	0.3	321
Milner	419194	Sep-05-2023	01:00	02:00	97.2	95.3	0.4	275
Milner	419194	Sep-05-2023	02:00	03:00	103.1	101.2	0.5	10
Milner	419194	Sep-05-2023	03:00	04:00	93	91.1	0.5	301
Milner	419194	Sep-05-2023	04:00	05:00	88	86.1	5	263
Milner	419194	Sep-05-2023	05:00	06:00	90.8	88.9	0.4	244
Milner	419194	Sep-05-2023	06:00	07:00	92	90.1	2.2	256
Milner	419194	Sep-05-2023	07:00	08:00	86.4	84.5	3.8	255
Milner	419607	Sep-16-2023	08:00	09:00	97.4	95.5	3.6	235
Milner	419607	Sep-16-2023	09:00	10:00	91.4	89.5	3.1	211
Milner	419607	Sep-16-2023	10:00	11:00	153.6	151.7	3.5	200
Milner	419607	Sep-16-2023	11:00	12:00	187.8	185.9	3.2	179
Milner	419607	Sep-16-2023	12:00	13:00	185.4	183.5	3.6	187
Milner	419607	Sep-16-2023	13:00	14:00	174.4	172.5	1.9	169
Milner	419607	Sep-16-2023	14:00	15:00	141.2	139.4	2.3	160
Milner	419607	Sep-17-2023	02:00	03:00	80.3	78.4	1.9	278
Milner	419607	Sep-17-2023	04:00	05:00	101.1	99.3	0.6	355
Milner	419607	Sep-17-2023	05:00	06:00	103.5	101.6	1.6	265
Milner	419607	Sep-17-2023	06:00	07:00	118.9	117.1	0.7	321
Milner	419607	Sep-17-2023	07:00	08:00	104.3	102.5	0.3	342
Milner	419607	Sep-17-2023	08:00	09:00	81.7	79.9	0.5	218
Milner	419607	Sep-17-2023	10:00	11:00	93	91.1	0.9	149
Milner	419607	Sep-17-2023	11:00	12:00	88	86.1	1.9	132
Poplar	412616	May-05-2023	11:00	12:00	175.9	175.9	34.1	121
Poplar	412616	May-05-2023	14:00	15:00	82	82.0	43	133
Poplar	412616	May-05-2023	16:00	17:00	123.1	123.2	43.4	130
Poplar	412616	May-05-2023	17:00	18:00	126.3	126.3	45.1	126
Poplar	412616	May-06-2023	07:00	08:00	85	85.0	27.5	97
Poplar	412616	May-06-2023	08:00	09:00	103.3	103.3	30.8	99
Poplar	412616	May-06-2023	17:00	18:00	146.3	146.3	44.7	106
Poplar	412616	May-06-2023	18:00	19:00	102.6	102.6	42.2	110
Poplar	412616	May-06-2023	19:00	20:00	90.3	90.3	37.3	111
Poplar	412616	May-07-2023	09:00	10:00	87.8	87.8	21.3	135
Poplar	413250	May-15-2023	00:00	01:00	109.5	109.5	1.5	100
Poplar	413250	May-15-2023	01:00	02:00	120.4	120.4	2.1	266
Poplar	413250	May-15-2023	02:00	03:00	136.2	136.2	2.3	324
Poplar	413250	May-15-2023	03:00	04:00	134.1	134.1	0.6	272
Poplar	413250	May-15-2023	04:00	05:00	137.4	137.4	2.1	278
Poplar	413250	May-15-2023	05:00	06:00	162.9	162.9	3.4	290
Poplar	413250	May-15-2023	06:00	07:00	156.4	156.4	2.3	289
Poplar	413250	May-15-2023	07:00	08:00	160.8	160.8	2.3	260
Poplar	413250	May-15-2023	08:00	09:00	146.3	146.3	0.2	129
Poplar	413250	May-15-2023	09:00	10:00	262.7	262.7	6	110
Poplar	413250	May-15-2023	10:00	11:00	228.1	228.1	3.9	120
Poplar	413250	May-15-2023	11:00	12:00	205.6	205.6	1.5	276
Poplar	413250	May-15-2023	12:00	13:00	168.1	168.1	2.1	342
Poplar	413250	May-15-2023	13:00	14:00	172	172.0	1.7	284
Poplar	413250	May-15-2023	14:00	15:00	107.2	107.2	1	154
Poplar	413250	May-15-2023	22:00	23:00	150.3	150.3	34.4	20
Poplar	413250	May-15-2023	23:00	00:00	226.6	226.6	23.4	21
Poplar	413250	May-16-2023	00:00	01:00	356.7	356.7	19.6	9
Poplar	413250	May-16-2023	01:00	02:00	329.9	329.9	12.2	350
Poplar	413250	May-16-2023	02:00	03:00	202.9	202.9	10.1	326
Poplar	413250	May-16-2023	03:00	04:00	110.1	110.1	9.7	359
Poplar	413250	May-16-2023	04:00	05:00	96.5	96.5	6.8	339
Poplar	413250	May-16-2023	09:00	10:00	92	92.0	7.4	349
Poplar	413250	May-16-2023	10:00	11:00	93.1	93.1	6.3	303
Poplar	413250	May-16-2023	15:00	16:00	93.6	93.6	4.8	4
Poplar	413250	May-16-2023	16:00	17:00	91.8	91.8	8.6	62

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Poplar	413250	May-16-2023	22:00	23:00	86.4	86.4	1.2	137
Poplar	413250	May-16-2023	23:00	00:00	89.5	89.5	2.6	114
Poplar	413250	May-17-2023	00:00	01:00	105.1	105.1	4.1	320
Poplar	413250	May-17-2023	01:00	02:00	83.9	83.9	1.4	309
Poplar	413250	May-17-2023	02:00	03:00	85.8	85.8	3.4	264
Poplar	413250	May-17-2023	03:00	04:00	92.6	92.6	0.5	326
Poplar	413250	May-17-2023	06:00	07:00	89.4	89.4	2.7	274
Poplar	413250	May-17-2023	07:00	08:00	112.1	112.1	1.9	317
Poplar	413250	May-17-2023	13:00	14:00	80.2	80.2	14.3	132
Poplar	413250	May-17-2023	23:00	00:00	80.5	80.5	3.9	97
Poplar	413250	May-18-2023	02:00	03:00	111.9	111.9	5.8	75
Poplar	413250	May-18-2023	03:00	04:00	87.2	87.2	3.9	267
Poplar	413250	May-18-2023	04:00	05:00	99.8	99.8	0.4	233
Poplar	413250	May-18-2023	05:00	06:00	101	101.0	3.2	258
Poplar	413250	May-18-2023	06:00	07:00	106.9	106.9	3	251
Poplar	413250	May-18-2023	07:00	08:00	184.4	184.4	1.1	304
Poplar	413250	May-18-2023	08:00	09:00	197.3	197.4	2.9	121
Poplar	413250	May-18-2023	09:00	10:00	426.4	426.4	13.9	108
Poplar	413250	May-18-2023	10:00	11:00	392.6	392.6	14.4	100
Poplar	413250	May-18-2023	11:00	12:00	314.6	314.6	12.9	108
Poplar	413250	May-18-2023	12:00	13:00	299.1	299.1	14.5	114
Poplar	413250	May-18-2023	13:00	14:00	211.5	211.5	17.9	125
Poplar	413250	May-18-2023	14:00	15:00	179.6	179.6	22.6	126
Poplar	413250	May-18-2023	15:00	16:00	168.9	168.9	23.3	130
Poplar	413250	May-18-2023	16:00	17:00	114.9	114.9	20.4	125
Poplar	413250	May-18-2023	17:00	18:00	90	90.1	19.5	119
Poplar	413250	May-18-2023	18:00	19:00	152	152.1	20.2	114
Poplar	413250	May-18-2023	19:00	20:00	239	239.0	21.4	109
Poplar	413250	May-18-2023	20:00	21:00	268.3	268.3	16.1	104
Poplar	413250	May-18-2023	21:00	22:00	309.3	309.3	15.1	99
Poplar	413250	May-18-2023	22:00	23:00	319.8	319.8	6.6	99
Poplar	413250	May-18-2023	23:00	00:00	296.2	296.2	2.3	137
Poplar	413250	May-19-2023	00:00	01:00	320.1	320.1	1.5	302
Poplar	413250	May-19-2023	01:00	02:00	276.9	276.9	1.4	296
Poplar	413250	May-19-2023	02:00	03:00	296.9	296.9	4.1	307
Poplar	413250	May-19-2023	03:00	04:00	266.2	266.2	7.9	341
Poplar	413250	May-19-2023	04:00	05:00	273.5	273.5	11.3	342
Poplar	413250	May-19-2023	05:00	06:00	291.5	291.5	2.7	236
Poplar	413250	May-19-2023	06:00	07:00	276.5	276.5	5.6	331
Poplar	413250	May-19-2023	07:00	08:00	173.2	173.2	5.2	318
Poplar	413250	May-19-2023	08:00	09:00	215.3	215.3	2.8	155
Poplar	413250	May-19-2023	09:00	10:00	89.4	89.4	9.9	251
Poplar	413250	May-19-2023	17:00	18:00	88.4	88.4	27.3	306
Poplar	413250	May-19-2023	18:00	19:00	447.9	447.9	22.4	325
Poplar	413250	May-19-2023	19:00	20:00	448.7	448.7	18.1	332
Poplar	413250	May-19-2023	20:00	21:00	448.4	448.4	16.2	317
Poplar	413250	May-19-2023	21:00	22:00	377	377.0	14.1	316
Poplar	413250	May-19-2023	22:00	23:00	272.4	272.4	12.7	307
Poplar	413250	May-19-2023	23:00	00:00	256.1	256.1	11	289
Poplar	413250	May-20-2023	00:00	01:00	226.3	226.3	11.6	291
Poplar	413250	May-20-2023	01:00	02:00	204.4	204.4	12.4	314
Poplar	413250	May-20-2023	02:00	03:00	155.7	155.7	8.3	309
Poplar	413250	May-20-2023	03:00	04:00	163	163.0	8.1	285
Poplar	413250	May-20-2023	04:00	05:00	146.7	146.7	9	288
Poplar	413250	May-20-2023	05:00	06:00	153.2	153.2	8.3	293
Poplar	413250	May-20-2023	06:00	07:00	156	156.0	8.9	312
Poplar	413250	May-20-2023	07:00	08:00	158.6	158.6	9.1	298
Poplar	413250	May-20-2023	08:00	09:00	168.4	168.4	8.9	294
Poplar	413250	May-20-2023	09:00	10:00	155.3	155.3	5.8	298
Poplar	413250	May-20-2023	10:00	11:00	158.6	158.6	3.1	300



Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Poplar	413250	May-20-2023	11:00	12:00	245.3	245.3	1.6	129
Poplar	413250	May-20-2023	12:00	13:00	238.8	238.8	2.2	112
Poplar	413250	May-20-2023	13:00	14:00	191.9	191.9	3.1	86
Poplar	413250	May-20-2023	14:00	15:00	178.8	178.8	9.7	112
Poplar	413250	May-20-2023	15:00	16:00	157	157.0	11.5	116
Poplar	413250	May-20-2023	16:00	17:00	97.3	97.3	12.2	108
Poplar	413250	May-20-2023	17:00	18:00	145.5	145.5	16.9	132
Poplar	413250	May-20-2023	18:00	19:00	108.6	108.6	18.5	121
Poplar	413250	May-20-2023	19:00	20:00	142.8	142.8	19.5	123
Poplar	413250	May-20-2023	20:00	21:00	145.8	145.8	16.4	201
Poplar	413250	May-21-2023	15:00	16:00	292	292.0	14.8	148
Poplar	413606	May-22-2023	16:00	17:00	167.3	167.3	22.1	64
Poplar	413606	May-22-2023	17:00	18:00	115.7	115.7	16.4	51
Poplar	413606	May-24-2023	16:00	17:00	174.4	174.4	12.3	310
Poplar	413606	May-25-2023	15:00	16:00	119.6	119.6	4.7	69
Poplar	414467	Jun-07-2023	10:00	11:00	143.7	143.7	13.3	306
Poplar	414467	Jun-07-2023	11:00	12:00	141.1	141.1	14.1	266
Poplar	414467	Jun-07-2023	12:00	13:00	114.4	114.4	16.9	261
Poplar	414467	Jun-09-2023	23:00	00:00	139.8	139.8	16.2	90
Poplar	414467	Jun-09-2023	00:00	01:00	125.5	125.5	18.3	90
Poplar	414467	Jun-10-2023	04:00	05:00	142.4	142.4	11	289
Poplar	414467	Jun-10-2023	05:00	06:00	175.9	175.9	12.7	276
Poplar	414467	Jun-10-2023	06:00	07:00	263.7	263.7	9.8	280
Poplar	414467	Jun-10-2023	07:00	08:00	175.9	175.9	12.2	275
Poplar	414467	Jun-10-2023	15:00	16:00	105.3	105.3	22.1	297
Poplar	414467	Jun-11-2023	21:00	22:00	102.7	102.7	5.7	93
Poplar	414467	Jun-11-2023	22:00	23:00	101.8	101.8	1.3	241
Poplar	414787	Jun-12-2023	23:00	00:00	83.6	83.6	2.6	268
Poplar	414787	Jun-12-2023	00:00	01:00	91.7	91.7	6.8	326
Poplar	414787	Jun-12-2023	08:00	09:00	91.5	91.5	3.4	122
Poplar	414787	Jun-13-2023	06:00	07:00	159	159.0	19	328
Poplar	414787	Jun-14-2023	07:00	08:00	115.4	115.4	21	313
Poplar	414787	Jun-14-2023	08:00	09:00	145.5	145.5	21.6	314
Poplar	414787	Jun-14-2023	09:00	10:00	173.8	173.8	23.2	324
Poplar	414787	Jun-14-2023	10:00	11:00	172	172.0	21.9	331
Poplar	414787	Jun-14-2023	11:00	12:00	155.4	155.5	20.9	331
Poplar	414787	Jun-14-2023	12:00	13:00	160.8	160.9	20.3	317
Poplar	414787	Jun-14-2023	15:00	16:00	134.2	134.2	12.4	310
Poplar	414787	Jun-15-2023	13:00	14:00	94.4	94.4	6	243
Poplar	414787	Jun-15-2023	14:00	15:00	83.5	83.5	3	189
Poplar	416555	Jul-10-2023	10:00	11:00	100.4	100.5	8.2	322
Poplar	416555	Jul-10-2023	11:00	12:00	172.5	172.5	7.9	310
Poplar	416555	Jul-10-2023	12:00	13:00	202.1	202.2	8.1	308
Poplar	416555	Jul-10-2023	13:00	14:00	173.7	173.7	8.2	296
Poplar	416555	Jul-10-2023	14:00	15:00	166.9	166.9	8.5	260
Poplar	416555	Jul-10-2023	15:00	16:00	155	155.0	12.7	288
Poplar	416555	Jul-10-2023	16:00	17:00	147.5	147.5	9.5	284
Poplar	416555	Jul-10-2023	17:00	18:00	136.7	136.7	8.5	271
Poplar	416555	Jul-10-2023	18:00	19:00	134.5	134.5	8.2	235
Poplar	416555	Jul-10-2023	19:00	20:00	120	120.0	12.3	229
Poplar	416555	Jul-12-2023	17:00	18:00	132.5	132.5	15.6	335
Poplar	416555	Jul-12-2023	18:00	19:00	163.5	163.5	10.6	347
Poplar	416555	Jul-12-2023	19:00	20:00	131.2	131.2	3.2	290
Poplar	416555	Jul-12-2023	20:00	21:00	126.8	126.8	4.9	271
Poplar	416555	Jul-12-2023	21:00	22:00	126.4	126.4	4.8	307
Poplar	416555	Jul-12-2023	22:00	23:00	131.1	131.1	7	310
Poplar	416555	Jul-13-2023	23:00	00:00	128.5	128.5	8	307
Poplar	416555	Jul-13-2023	00:00	01:00	127.7	127.7	10.3	307
Poplar	416555	Jul-13-2023	01:00	02:00	124.8	124.8	10.2	305
Poplar	416555	Jul-13-2023	02:00	03:00	128.7	128.7	10.6	300

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Poplar	416555	Jul-13-2023	03:00	04:00	135.9	135.9	10.5	294
Poplar	416555	Jul-13-2023	04:00	05:00	140.9	140.9	12.5	294
Poplar	416555	Jul-13-2023	05:00	06:00	113.4	113.4	14.3	312
Poplar	416555	Jul-15-2023	17:00	18:00	165.3	165.3	9.6	256
Poplar	416555	Jul-15-2023	18:00	19:00	185.4	185.4	5.5	247
Poplar	416555	Jul-15-2023	19:00	20:00	169.2	169.2	6.3	277
Poplar	416555	Jul-15-2023	20:00	21:00	166.5	166.5	6	298
Poplar	416555	Jul-15-2023	21:00	22:00	159.5	159.5	4	310
Poplar	416555	Jul-15-2023	22:00	23:00	152.1	152.1	5.2	289
Poplar	416555	Jul-16-2023	23:00	00:00	144.1	144.1	1.1	277
Poplar	416555	Jul-16-2023	00:00	01:00	145.6	145.6	2.4	30
Poplar	416555	Jul-16-2023	01:00	02:00	129	129.0	3.6	312
Poplar	416555	Jul-16-2023	02:00	03:00	124.5	124.5	4.5	309
Poplar	416555	Jul-16-2023	03:00	04:00	132.4	132.4	5.6	330
Poplar	416555	Jul-16-2023	04:00	05:00	125.6	125.6	4	333
Poplar	416555	Jul-16-2023	05:00	06:00	130.8	130.8	5.8	333
Poplar	416555	Jul-16-2023	06:00	07:00	115.4	115.4	1.1	266
Poplar	416555	Jul-16-2023	07:00	08:00	130.8	130.8	1.7	81
Poplar	416555	Jul-16-2023	08:00	09:00	120	120.0	1.9	255
Poplar	416555	Jul-16-2023	09:00	10:00	108.6	108.6	4.2	267
Poplar	416555	Jul-16-2023	10:00	11:00	110.4	110.4	3.8	317
Poplar	416555	Jul-16-2023	11:00	12:00	113.5	113.5	0.8	277
Poplar	416555	Jul-16-2023	12:00	13:00	120.4	120.4	1.4	242
Poplar	416555	Jul-16-2023	13:00	14:00	128.9	128.9	1.5	277
Poplar	416555	Jul-16-2023	14:00	15:00	131.2	131.2	1.8	160
Poplar	416555	Jul-16-2023	15:00	16:00	129.5	129.5	3.9	89
Poplar	416555	Jul-16-2023	16:00	17:00	129.6	129.6	7.9	145
Poplar	416555	Jul-16-2023	17:00	18:00	110	110.0	11.7	133
Poplar	416555	Jul-16-2023	18:00	19:00	128.7	128.7	6.9	130
Poplar	416555	Jul-16-2023	19:00	20:00	91.8	91.8	16.9	307
Poplar	416953	Jul-20-2023	19:00	20:00	89.1	89.1	6.8	107
Poplar	416953	Jul-20-2023	21:00	22:00	80.9	80.9	12.8	91
Poplar	416953	Jul-21-2023	06:00	07:00	93.2	93.2	7.4	300
Poplar	416953	Jul-21-2023	07:00	08:00	98.8	98.8	5.3	337
Poplar	418877	Aug-29-2023	15:00	16:00	84.7	84.7	7.2	332
Poplar	418877	Aug-29-2023	16:00	17:00	104	104.0	6.1	315
Poplar	418877	Aug-29-2023	17:00	18:00	96.7	96.7	1.6	15
Poplar	418877	Aug-29-2023	18:00	19:00	103.1	103.1	2.4	125
Poplar	418877	Aug-29-2023	19:00	20:00	123.9	123.9	1.7	273
Poplar	418877	Aug-29-2023	20:00	21:00	120.5	120.6	3.7	275
Poplar	418877	Aug-29-2023	21:00	22:00	92.6	92.6	4.8	313
Poplar	418877	Aug-29-2023	22:00	23:00	101.7	101.7	7.3	329
Poplar	418877	Aug-30-2023	23:00	00:00	92.9	92.9	5.4	326
Poplar	418877	Aug-30-2023	00:00	01:00	81.6	81.6	4.5	336
Poplar	418877	Sep-02-2023	02:00	03:00	112.2	112.2	14.8	278
Poplar	418877	Sep-02-2023	03:00	04:00	94.3	94.3	15	289
Poplar	418877	Sep-02-2023	11:00	12:00	88	88.0	28.1	289
Poplar	418877	Sep-02-2023	20:00	21:00	82.2	82.2	10	248
Poplar	418877	Sep-02-2023	21:00	22:00	92.2	92.2	10.4	266
Poplar	418877	Sep-02-2023	22:00	23:00	85.6	85.6	5.8	261
Poplar	418877	Sep-03-2023	04:00	05:00	107.5	107.5	10.8	251
Poplar	418877	Sep-03-2023	05:00	06:00	127.5	127.5	6.9	242
Poplar	418877	Sep-03-2023	06:00	07:00	109.8	109.8	12.9	241
Poplar	418877	Sep-03-2023	07:00	08:00	104.5	104.5	16.6	248
Poplar	418877	Sep-03-2023	12:00	13:00	84	84.0	20.7	306
Poplar	418877	Sep-03-2023	13:00	14:00	164.9	164.9	14.6	339
Poplar	418877	Sep-03-2023	14:00	15:00	134.3	134.3	15.5	21
Poplar	418877	Sep-03-2023	15:00	16:00	149.6	149.6	15.5	7
Poplar	418877	Sep-03-2023	16:00	17:00	147.4	147.4	14	28
Poplar	418877	Sep-03-2023	17:00	18:00	148.5	148.5	8.4	31

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Poplar	418877	Sep-03-2023	18:00	19:00	138.5	138.5	9.6	352
Poplar	418877	Sep-03-2023	19:00	20:00	92.9	92.9	19.4	1
Poplar	419604	Sep-11-2023	11:00	12:00	107.2	106.2	24.9	287
Poplar	419604	Sep-11-2023	12:00	13:00	241.2	240.3	24.1	285
Poplar	419604	Sep-11-2023	13:00	14:00	215	214.1	15.7	274
Poplar	419604	Sep-11-2023	14:00	15:00	118.8	117.9	21.9	284
Poplar	419604	Sep-15-2023	22:00	23:00	188.9	187.0	14	314
Poplar	419604	Sep-16-2023	23:00	00:00	346.5	344.7	8.6	310
Poplar	419604	Sep-16-2023	00:00	01:00	365	363.1	15.7	325
Poplar	419604	Sep-16-2023	01:00	02:00	331	329.2	8.3	319
Poplar	419604	Sep-16-2023	02:00	03:00	325	323.2	8.4	272
Poplar	419604	Sep-16-2023	03:00	04:00	361	359.1	9.4	277
Poplar	419604	Sep-16-2023	04:00	05:00	356.6	354.8	10.5	276
Poplar	419604	Sep-16-2023	05:00	06:00	375.4	373.5	7.4	296
Poplar	419604	Sep-16-2023	06:00	07:00	398.7	396.8	8.9	291
Poplar	419604	Sep-16-2023	07:00	08:00	414.7	412.8	2.7	256
Poplar	419604	Sep-16-2023	08:00	09:00	413.2	411.3	7.7	107
Poplar	419604	Sep-16-2023	09:00	10:00	435	433.1	6.8	98
Poplar	419604	Sep-16-2023	10:00	11:00	444.4	442.5	4.1	138
Poplar	419604	Sep-16-2023	11:00	12:00	354.2	352.3	3.6	224
Poplar	419604	Sep-16-2023	12:00	13:00	120.6	118.8	13.2	272
Poplar	419604	Sep-16-2023	13:00	14:00	150.9	150.0	9.2	257
Poplar	419604	Sep-16-2023	14:00	15:00	159.9	159.0	6.5	245
Poplar	419604	Sep-16-2023	15:00	16:00	172	171.1	6	146
Poplar	419604	Sep-16-2023	16:00	17:00	215	214.1	14	139
Poplar	419604	Sep-16-2023	17:00	18:00	195.3	193.4	11	148
Poplar	419604	Sep-16-2023	18:00	19:00	191.7	189.8	8.1	116
Poplar	419604	Sep-16-2023	19:00	20:00	205.3	203.4	7	114
Poplar	419604	Sep-16-2023	20:00	21:00	215.5	213.7	5	84
Poplar	419604	Sep-16-2023	21:00	22:00	235.2	233.3	1.1	339
Poplar	419604	Sep-16-2023	22:00	23:00	248.4	246.5	0.5	341
Poplar	419604	Sep-17-2023	23:00	00:00	221.2	219.4	6.9	301
Poplar	419604	Sep-17-2023	00:00	01:00	239.4	237.6	9.5	306
Poplar	419604	Sep-17-2023	01:00	02:00	221.7	219.9	9.7	293
Poplar	419604	Sep-17-2023	02:00	03:00	213.7	211.9	10.9	292
Poplar	419604	Sep-17-2023	03:00	04:00	187.9	186.0	13.8	300
Poplar	419604	Sep-17-2023	04:00	05:00	178.2	176.4	14	295
Poplar	419604	Sep-17-2023	05:00	06:00	172.3	170.4	12.9	299
Poplar	419604	Sep-17-2023	06:00	07:00	216.2	214.3	12.6	276
Poplar	419604	Sep-17-2023	07:00	08:00	234.1	232.2	14.5	270
Poplar	419604	Sep-17-2023	08:00	09:00	220.5	218.6	10.4	271
Poplar	419604	Sep-17-2023	09:00	10:00	212.2	210.3	12.6	275
Poplar	419604	Sep-17-2023	10:00	11:00	173.9	172.0	15.4	276
Poplar	419604	Sep-17-2023	11:00	12:00	168.2	166.3	15.6	251
Poplar	419604	Sep-17-2023	12:00	13:00	168.2	166.3	20.4	242
Poplar	419604	Sep-17-2023	13:00	14:00	141	139.2	17.3	232
Poplar	419604	Sep-17-2023	14:00	15:00	138.5	136.7	18.1	241
Poplar	419604	Sep-17-2023	15:00	16:00	134.9	133.0	13.5	239
Poplar	419604	Sep-17-2023	16:00	17:00	182	180.1	11.8	248
Poplar	419604	Sep-17-2023	17:00	18:00	120.8	118.9	10.4	228
Poplar	419604	Sep-17-2023	22:00	23:00	81.7	79.8	9	334
Poplar	419950	Sep-20-2023	12:00	13:00	89.7	87.8	10.7	328
Poplar	419950	Sep-20-2023	13:00	14:00	97.5	95.6	9.2	353
Poplar	419950	Sep-20-2023	14:00	15:00	114.7	112.9	7.8	21
Poplar	419950	Sep-20-2023	15:00	16:00	121	119.2	4	322
Poplar	421646	Nov-04-2023	06:00	07:00	89.5	87.7	10.3	100
Smoky Heights	412455	May-03-2023	20:00	21:00	107.2	107.2	17.7	268
Smoky Heights	412617	May-05-2023	08:00	09:00	84.1	84.1	4.9	39
Smoky Heights	412617	May-05-2023	09:00	10:00	313.1	313.1	12	107
Smoky Heights	412617	May-06-2023	14:00	15:00	144.8	144.8	35.3	113
Smoky Heights	412617	May-07-2023	06:00	07:00	86.1	86.1	6.4	15

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	412617	May-07-2023	07:00	08:00	135.9	135.9	8.3	29
Smoky Heights	412617	May-07-2023	08:00	09:00	91.9	91.9	9.3	51
Smoky Heights	412833	May-14-2023	16:00	17:00	150.1	150.1	7.7	149
Smoky Heights	412833	May-14-2023	17:00	18:00	155.3	155.3	8.1	110
Smoky Heights	412833	May-14-2023	18:00	19:00	121.9	121.9	8.8	85
Smoky Heights	412833	May-14-2023	19:00	20:00	151.6	151.6	7.6	69
Smoky Heights	412833	May-14-2023	20:00	21:00	157.4	157.4	6.7	78
Smoky Heights	412833	May-14-2023	21:00	22:00	143.6	143.6	7.5	99
Smoky Heights	412833	May-14-2023	22:00	23:00	142.7	142.7	2.3	246
Smoky Heights	412833	May-14-2023	23:00	00:00	140	140	1.6	307
Smoky Heights	413251	May-15-2023	00:00	01:00	146.1	146.1	1.2	45
Smoky Heights	413251	May-15-2023	01:00	02:00	221.3	221.3	2.6	125
Smoky Heights	413251	May-15-2023	02:00	03:00	294.4	294.4	2.8	241
Smoky Heights	413251	May-15-2023	03:00	04:00	345.8	345.8	3.6	240
Smoky Heights	413251	May-15-2023	04:00	05:00	377.9	377.9	5.7	258
Smoky Heights	413251	May-15-2023	05:00	06:00	403.6	403.6	5.4	257
Smoky Heights	413251	May-15-2023	06:00	07:00	437.3	437.3	4.5	247
Smoky Heights	413251	May-15-2023	07:00	08:00	485.2	485.2	7.4	234
Smoky Heights	413251	May-15-2023	08:00	09:00	721	721	5.9	203
Smoky Heights	413251	May-15-2023	09:00	10:00	789.7	789.7	7.6	198
Smoky Heights	413251	May-15-2023	10:00	11:00	555.5	555.5	8.8	196
Smoky Heights	413251	May-15-2023	11:00	12:00	291.9	291.9	8.5	182
Smoky Heights	413251	May-15-2023	12:00	13:00	197.2	197.2	8.5	184
Smoky Heights	413251	May-15-2023	22:00	23:00	239	239	18.1	13
Smoky Heights	413251	May-15-2023	23:00	00:00	211.5	211.5	17	8
Smoky Heights	413251	May-16-2023	00:00	01:00	294	294	17.9	5
Smoky Heights	413251	May-16-2023	01:00	02:00	218.5	218.5	13.6	3
Smoky Heights	413251	May-16-2023	02:00	03:00	173.7	173.7	11.6	355
Smoky Heights	413251	May-16-2023	10:00	11:00	129.3	129.3	8.1	337
Smoky Heights	413251	May-16-2023	11:00	12:00	188.3	188.3	7.7	327
Smoky Heights	413251	May-16-2023	12:00	13:00	170.2	170.2	8.6	4
Smoky Heights	413251	May-16-2023	13:00	14:00	216	216	7.9	340
Smoky Heights	413251	May-17-2023	09:00	10:00	144.4	144.4	1.4	187
Smoky Heights	413251	May-17-2023	10:00	11:00	166.4	166.4	2.6	81
Smoky Heights	413251	May-17-2023	17:00	18:00	124.8	124.8	7.3	71
Smoky Heights	413251	May-17-2023	18:00	19:00	117.4	117.4	7.9	79
Smoky Heights	413251	May-17-2023	21:00	22:00	83.9	83.9	1.3	221
Smoky Heights	413251	May-17-2023	22:00	23:00	92.7	92.7	0.8	138
Smoky Heights	413251	May-17-2023	23:00	00:00	135.9	135.9	1.8	340
Smoky Heights	413251	May-18-2023	00:00	01:00	158.8	158.8	4.7	6
Smoky Heights	413251	May-18-2023	01:00	02:00	186.3	186.3	3.3	355
Smoky Heights	413251	May-18-2023	02:00	03:00	150.8	150.8	2.2	221
Smoky Heights	413251	May-18-2023	03:00	04:00	138.9	138.9	2.9	7
Smoky Heights	413251	May-18-2023	04:00	05:00	147.1	147.1	4.7	27
Smoky Heights	413251	May-18-2023	05:00	06:00	165.4	165.4	4.2	360
Smoky Heights	413251	May-18-2023	06:00	07:00	279.9	279.9	1.2	120
Smoky Heights	413251	May-18-2023	07:00	08:00	411.1	411.1	2.2	198
Smoky Heights	413251	May-18-2023	08:00	09:00	413.4	413.4	2.8	10
Smoky Heights	413251	May-18-2023	09:00	10:00	398.2	398.2	2.6	39
Smoky Heights	413251	May-18-2023	10:00	11:00	321.2	321.2	3.2	85
Smoky Heights	413251	May-18-2023	11:00	12:00	293.6	293.6	5.1	48
Smoky Heights	413251	May-18-2023	12:00	13:00	210.6	210.6	5.7	86
Smoky Heights	413251	May-18-2023	13:00	14:00	146.5	146.5	11.3	111
Smoky Heights	413251	May-18-2023	14:00	15:00	132.8	132.8	19.3	124
Smoky Heights	413251	May-18-2023	15:00	16:00	114.8	114.8	16.3	115
Smoky Heights	413251	May-18-2023	16:00	17:00	145.8	145.8	17.9	125
Smoky Heights	413251	May-18-2023	17:00	18:00	181.6	181.6	18	120
Smoky Heights	413251	May-18-2023	18:00	19:00	281.4	281.4	12.4	108
Smoky Heights	413251	May-18-2023	19:00	20:00	375.6	375.6	9.5	104
Smoky Heights	413251	May-18-2023	20:00	21:00	457.2	457.2	7.4	86
Smoky Heights	413251	May-18-2023	21:00	22:00	459.2	459.2	5.5	73
Smoky Heights	413251	May-18-2023	22:00	23:00	320.3	320.3	5.3	23
Smoky Heights	413251	May-18-2023	23:00	00:00	291.6	291.6	2.2	68
Smoky Heights	413251	May-19-2023	00:00	01:00	345.3	345.3	0.4	268
Smoky Heights	413251	May-19-2023	01:00	02:00	353.8	353.8	5	231
Smoky Heights	413251	May-19-2023	02:00	03:00	344.3	344.3	5.8	226
Smoky Heights	413251	May-19-2023	03:00	04:00	348.1	348.1	7.2	239
Smoky Heights	413251	May-19-2023	04:00	05:00	352.1	352.1	7.7	203
Smoky Heights	413251	May-19-2023	05:00	06:00	360.3	360.3	7.1	234

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	413251	May-19-2023	06:00	07:00	352.9	352.9	9.8	234
Smoky Heights	413251	May-19-2023	07:00	08:00	340.1	340.1	10.1	214
Smoky Heights	413251	May-19-2023	08:00	09:00	329.6	329.6	9	186
Smoky Heights	413251	May-19-2023	09:00	10:00	310.2	310.2	9.1	182
Smoky Heights	413251	May-19-2023	10:00	11:00	167.7	167.7	17.1	223
Smoky Heights	413251	May-19-2023	11:00	12:00	89.1	89.1	20.8	232
Smoky Heights	413251	May-19-2023	13:00	14:00	91	91	16.9	250
Smoky Heights	413251	May-19-2023	17:00	18:00	180	180	19.8	312
Smoky Heights	413251	May-19-2023	18:00	19:00	494.7	494.7	13.9	312
Smoky Heights	413251	May-19-2023	19:00	20:00	990	990	16.5	311
Smoky Heights	413251	May-19-2023	20:00	21:00	986.5	986.5	12.2	306
Smoky Heights	413251	May-19-2023	21:00	22:00	845.4	845.4	3.6	316
Smoky Heights	413251	May-19-2023	22:00	23:00	699.3	699.3	3.5	0
Smoky Heights	413251	May-19-2023	23:00	00:00	551.4	551.4	13	343
Smoky Heights	413251	May-20-2023	00:00	01:00	412.1	412.1	8.9	338
Smoky Heights	413251	May-20-2023	01:00	02:00	294.9	294.9	7.6	334
Smoky Heights	413251	May-20-2023	02:00	03:00	251.9	251.9	2.9	315
Smoky Heights	413251	May-20-2023	03:00	04:00	273.3	273.3	2.8	252
Smoky Heights	413251	May-20-2023	04:00	05:00	253	253	3	236
Smoky Heights	413251	May-20-2023	05:00	06:00	242.1	242.1	2.8	254
Smoky Heights	413251	May-20-2023	06:00	07:00	237.1	237.1	3.3	251
Smoky Heights	413251	May-20-2023	07:00	08:00	246.3	246.3	2.7	265
Smoky Heights	413251	May-20-2023	08:00	09:00	254.3	254.3	1.6	58
Smoky Heights	413251	May-20-2023	09:00	10:00	292.5	292.5	2.9	129
Smoky Heights	413251	May-20-2023	10:00	11:00	290.1	290.1	2.5	177
Smoky Heights	413251	May-20-2023	11:00	12:00	275.1	275.1	5.5	127
Smoky Heights	413251	May-20-2023	12:00	13:00	266.2	266.2	4.6	112
Smoky Heights	413251	May-20-2023	13:00	14:00	267.1	267.1	4.9	77
Smoky Heights	413251	May-20-2023	14:00	15:00	266	266	2.3	72
Smoky Heights	413251	May-20-2023	15:00	16:00	271.1	271.1	6.1	81
Smoky Heights	413251	May-20-2023	16:00	17:00	283.4	283.4	5.2	56
Smoky Heights	413251	May-20-2023	17:00	18:00	338.7	338.7	8.8	54
Smoky Heights	413251	May-20-2023	18:00	19:00	342	342	8.8	51
Smoky Heights	413251	May-20-2023	19:00	20:00	306	306	7.4	32
Smoky Heights	413251	May-20-2023	20:00	21:00	314.3	314.3	6.1	21
Smoky Heights	413251	May-20-2023	21:00	22:00	334.2	334.2	7.6	292
Smoky Heights	413251	May-20-2023	22:00	23:00	334.9	334.9	6.3	41
Smoky Heights	413251	May-20-2023	23:00	00:00	454	454	4.3	114
Smoky Heights	413251	May-21-2023	00:00	01:00	445.6	445.6	3.7	219
Smoky Heights	413251	May-21-2023	01:00	02:00	424.5	424.5	6.5	245
Smoky Heights	413251	May-21-2023	02:00	03:00	384.9	384.9	1.4	196
Smoky Heights	413251	May-21-2023	03:00	04:00	332	332	4	290
Smoky Heights	413251	May-21-2023	04:00	05:00	295.6	295.6	10.1	258
Smoky Heights	413251	May-21-2023	05:00	06:00	259.4	259.4	13.3	253
Smoky Heights	413251	May-21-2023	06:00	07:00	193.7	193.7	9.9	250
Smoky Heights	413251	May-21-2023	07:00	08:00	184.2	184.2	4.7	157
Smoky Heights	413251	May-21-2023	08:00	09:00	197.9	197.9	3.3	177
Smoky Heights	413251	May-21-2023	09:00	10:00	236.6	236.6	6.2	178
Smoky Heights	413251	May-21-2023	10:00	11:00	283.4	283.4	7.2	177
Smoky Heights	413251	May-21-2023	11:00	12:00	447.5	447.5	6.9	169
Smoky Heights	413251	May-21-2023	12:00	13:00	491.5	491.5	6	143
Smoky Heights	413251	May-21-2023	13:00	14:00	505.9	505.9	8.4	134
Smoky Heights	413251	May-21-2023	14:00	15:00	477.6	477.6	7.5	112
Smoky Heights	413251	May-21-2023	15:00	16:00	459.7	459.7	5.1	79
Smoky Heights	413251	May-21-2023	17:00	18:00	177.6	177.6	19.3	250
Smoky Heights	413607	May-22-2023	09:00	10:00	85.7	85.7	8	12
Smoky Heights	413607	May-22-2023	10:00	11:00	85.7	85.7	12.7	26
Smoky Heights	413607	May-22-2023	11:00	12:00	105	105	12.4	28
Smoky Heights	413607	May-22-2023	12:00	13:00	155.5	155.5	11.7	28
Smoky Heights	413607	May-22-2023	13:00	14:00	185.2	185.2	13.5	28
Smoky Heights	413607	May-22-2023	14:00	15:00	183.7	183.7	11.9	30
Smoky Heights	413607	May-22-2023	15:00	16:00	169.5	169.5	12	31
Smoky Heights	413607	May-22-2023	16:00	17:00	151.6	151.6	10.1	23
Smoky Heights	413607	May-22-2023	17:00	18:00	122.8	122.8	12.8	30
Smoky Heights	414468	Jun-07-2023	09:00	10:00	98.4	98.4	8.5	265
Smoky Heights	414468	Jun-07-2023	12:00	13:00	100.6	100.6	16.3	237
Smoky Heights	414468	Jun-08-2023	05:00	06:00	96.4	96.4	7.6	15
Smoky Heights	414468	Jun-08-2023	06:00	07:00	92.1	92.1	8.5	23
Smoky Heights	414468	Jun-10-2023	08:00	09:00	114	114	14.5	241

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	414468	Jun-10-2023	09:00	10:00	253.6	253.6	16.2	234
Smoky Heights	414468	Jun-10-2023	10:00	11:00	182.8	182.8	16.7	229
Smoky Heights	414468	Jun-10-2023	11:00	12:00	115.3	115.3	18.6	236
Smoky Heights	414468	Jun-10-2023	12:00	13:00	102.3	102.3	19.7	242
Smoky Heights	414468	Jun-10-2023	16:00	17:00	130.5	130.5	16.8	287
Smoky Heights	414468	Jun-10-2023	17:00	18:00	219.8	219.8	14.5	306
Smoky Heights	414468	Jun-10-2023	18:00	19:00	129.2	129.2	5.6	295
Smoky Heights	414468	Jun-10-2023	19:00	20:00	102.3	102.3	6.8	296
Smoky Heights	414468	Jun-11-2023	18:00	19:00	128.7	128.7	7.7	306
Smoky Heights	414468	Jun-11-2023	19:00	20:00	139.4	139.4	3.7	313
Smoky Heights	414468	Jun-11-2023	20:00	21:00	133.9	133.9	2.4	259
Smoky Heights	414468	Jun-11-2023	21:00	22:00	116	116	3.5	318
Smoky Heights	414468	Jun-11-2023	22:00	23:00	105	105	3.8	277
Smoky Heights	414791	Jun-12-2023	23:00	00:00	91.5	91.5	4.4	348
Smoky Heights	414791	Jun-12-2023	03:00	04:00	87.3	87.3	4.5	359
Smoky Heights	414791	Jun-12-2023	04:00	05:00	100.5	100.5	5	13
Smoky Heights	414791	Jun-12-2023	05:00	06:00	104.4	104.4	2.1	40
Smoky Heights	414791	Jun-12-2023	06:00	07:00	87.8	87.8	3.3	124
Smoky Heights	414791	Jun-12-2023	20:00	21:00	80.7	80.7	2.9	195
Smoky Heights	414791	Jun-13-2023	06:00	07:00	85	85	4.5	25
Smoky Heights	414791	Jun-13-2023	21:00	22:00	104	104	10.9	338
Smoky Heights	414791	Jun-14-2023	11:00	12:00	229.2	229.2	12.4	329
Smoky Heights	414791	Jun-14-2023	12:00	13:00	183.9	183.9	13.4	330
Smoky Heights	414791	Jun-14-2023	13:00	14:00	192.5	192.5	18.2	315
Smoky Heights	414791	Jun-14-2023	14:00	15:00	251.6	251.6	22.1	311
Smoky Heights	414791	Jun-14-2023	15:00	16:00	133.2	133.2	15.5	326
Smoky Heights	414791	Jun-14-2023	16:00	17:00	133.3	133.3	16.9	315
Smoky Heights	414791	Jun-14-2023	17:00	18:00	126.5	126.5	17.1	305
Smoky Heights	414791	Jun-14-2023	22:00	23:00	81.1	81.1	18	310
Smoky Heights	414791	Jun-15-2023	23:00	00:00	90.9	90.9	17.9	312
Smoky Heights	414791	Jun-15-2023	00:00	01:00	99.5	99.5	17.2	313
Smoky Heights	414791	Jun-15-2023	01:00	02:00	100	100	11.3	313
Smoky Heights	414791	Jun-15-2023	02:00	03:00	93.2	93.2	12.5	311
Smoky Heights	414791	Jun-15-2023	03:00	04:00	87.7	87.7	13.8	314
Smoky Heights	414791	Jun-15-2023	04:00	05:00	86.6	86.6	10.5	318
Smoky Heights	416554	Jul-10-2023	10:00	11:00	204.8	204.8	13.7	276
Smoky Heights	416554	Jul-10-2023	11:00	12:00	186	186	14.5	267
Smoky Heights	416554	Jul-10-2023	12:00	13:00	140	140	13.9	259
Smoky Heights	416554	Jul-10-2023	13:00	14:00	94	94	9.9	264
Smoky Heights	416554	Jul-10-2023	14:00	15:00	98.2	98.2	5.3	303
Smoky Heights	416554	Jul-10-2023	15:00	16:00	108.4	108.4	4.6	294
Smoky Heights	416554	Jul-10-2023	16:00	17:00	99	99	3.3	12
Smoky Heights	416554	Jul-10-2023	17:00	18:00	100.5	100.5	0.2	49
Smoky Heights	416554	Jul-10-2023	18:00	19:00	97.7	97.7	1.9	36
Smoky Heights	416554	Jul-12-2023	20:00	21:00	119.6	119.6	8.4	309
Smoky Heights	416554	Jul-12-2023	21:00	22:00	86.1	86.1	5	327
Smoky Heights	416554	Jul-12-2023	22:00	23:00	119.3	119.3	4.3	339
Smoky Heights	416554	Jul-13-2023	23:00	00:00	114.3	114.3	6.9	294
Smoky Heights	416554	Jul-13-2023	00:00	01:00	115.3	115.3	6.7	288
Smoky Heights	416554	Jul-13-2023	01:00	02:00	107.2	107.2	5.4	317
Smoky Heights	416554	Jul-13-2023	02:00	03:00	116.6	116.6	3.9	79
Smoky Heights	416554	Jul-13-2023	03:00	04:00	112.3	112.3	3.8	10
Smoky Heights	416554	Jul-13-2023	04:00	05:00	115.4	115.4	4.4	324
Smoky Heights	416554	Jul-13-2023	05:00	06:00	100.8	100.8	2.7	203
Smoky Heights	416554	Jul-13-2023	06:00	07:00	87.1	87.1	3.5	243
Smoky Heights	416554	Jul-13-2023	14:00	15:00	100.1	100.1	6.1	344
Smoky Heights	416554	Jul-13-2023	15:00	16:00	131.6	131.6	6.7	323
Smoky Heights	416554	Jul-13-2023	16:00	17:00	144.1	144.1	5.3	316
Smoky Heights	416554	Jul-13-2023	17:00	18:00	148.9	148.9	4.3	314
Smoky Heights	416554	Jul-13-2023	18:00	19:00	146.2	146.2	4.7	290
Smoky Heights	416554	Jul-13-2023	19:00	20:00	142.5	142.5	5.7	296
Smoky Heights	416554	Jul-13-2023	20:00	21:00	140.1	140.1	3	214
Smoky Heights	416554	Jul-13-2023	21:00	22:00	121.3	121.3	8	252
Smoky Heights	416554	Jul-15-2023	14:00	15:00	80.5	80.5	6.1	256
Smoky Heights	416554	Jul-15-2023	16:00	17:00	91.7	91.7	4.8	279
Smoky Heights	416554	Jul-15-2023	19:00	20:00	122.6	122.6	7.1	243
Smoky Heights	416554	Jul-15-2023	20:00	21:00	119.8	119.8	2.9	226
Smoky Heights	416554	Jul-15-2023	21:00	22:00	115.8	115.8	7.2	229
Smoky Heights	416554	Jul-15-2023	22:00	23:00	128	128	1.6	39

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	416554	Jul-16-2023	23:00	00:00	107.6	107.6	6.4	106
Smoky Heights	416554	Jul-16-2023	00:00	01:00	119.9	119.9	4.7	180
Smoky Heights	416554	Jul-16-2023	01:00	02:00	116.8	116.8	5.6	241
Smoky Heights	416554	Jul-16-2023	02:00	03:00	113.1	113.1	1.9	204
Smoky Heights	416554	Jul-16-2023	03:00	04:00	112.8	112.8	3.2	216
Smoky Heights	416554	Jul-16-2023	04:00	05:00	110.3	110.3	4.6	235
Smoky Heights	416554	Jul-16-2023	05:00	06:00	107.5	107.5	1.8	168
Smoky Heights	416554	Jul-16-2023	06:00	07:00	101	101	2.8	213
Smoky Heights	416554	Jul-16-2023	07:00	08:00	90.5	90.5	6.5	199
Smoky Heights	416554	Jul-16-2023	08:00	09:00	97.1	97.1	5.9	169
Smoky Heights	416554	Jul-16-2023	09:00	10:00	97.8	97.8	5.6	174
Smoky Heights	416554	Jul-16-2023	10:00	11:00	118	118	3.9	213
Smoky Heights	416554	Jul-16-2023	11:00	12:00	119.6	119.6	2	138
Smoky Heights	416554	Jul-16-2023	12:00	13:00	111.7	111.7	8.7	120
Smoky Heights	416554	Jul-16-2023	13:00	14:00	108.4	108.4	7.6	115
Smoky Heights	416554	Jul-16-2023	14:00	15:00	104.4	104.4	9.2	99
Smoky Heights	416554	Jul-16-2023	15:00	16:00	99.4	99.4	7.9	84
Smoky Heights	416554	Jul-16-2023	16:00	17:00	121.3	121.3	6.8	96
Smoky Heights	416554	Jul-16-2023	17:00	18:00	83.4	83.4	4.5	57
Smoky Heights	418448	Aug-24-2023	05:00	06:00	87.2	87.2	9.3	323
Smoky Heights	418448	Aug-24-2023	06:00	07:00	121.4	121.4	12.8	300
Smoky Heights	418448	Aug-24-2023	07:00	08:00	123	123	9	312
Smoky Heights	418448	Aug-24-2023	08:00	09:00	112.4	112.4	2.8	347
Smoky Heights	418448	Aug-24-2023	09:00	10:00	126.8	126.8	1	19
Smoky Heights	418448	Aug-24-2023	10:00	11:00	137	137	1.5	112
Smoky Heights	418448	Aug-24-2023	11:00	12:00	133.9	133.9	3.8	156
Smoky Heights	418448	Aug-24-2023	12:00	13:00	161.5	161.5	4.1	185
Smoky Heights	418448	Aug-24-2023	13:00	14:00	171.5	171.5	6.8	203
Smoky Heights	418448	Aug-24-2023	14:00	15:00	121.7	121.7	9.5	204
Smoky Heights	418874	Aug-28-2023	18:00	19:00	88.6	88.6	5.6	164
Smoky Heights	418874	Aug-28-2023	19:00	20:00	110.6	110.6	2.8	181
Smoky Heights	418874	Aug-28-2023	20:00	21:00	117.5	117.5	2.9	218
Smoky Heights	418874	Aug-28-2023	21:00	22:00	110.3	110.3	5.5	232
Smoky Heights	418874	Aug-28-2023	22:00	23:00	98.5	98.5	5.6	229
Smoky Heights	418874	Aug-29-2023	00:00	01:00	82	82	6.5	241
Smoky Heights	418874	Aug-29-2023	01:00	02:00	85.4	85.4	6.3	220
Smoky Heights	418874	Aug-29-2023	02:00	03:00	89.7	89.7	7.1	220
Smoky Heights	418874	Aug-29-2023	03:00	04:00	93.1	93.1	8.1	245
Smoky Heights	418874	Aug-29-2023	18:00	19:00	115.9	115.9	1.1	292
Smoky Heights	418874	Aug-29-2023	19:00	20:00	110.4	110.4	3.9	316
Smoky Heights	418874	Aug-29-2023	20:00	21:00	117.8	117.8	4.5	324
Smoky Heights	418874	Aug-29-2023	21:00	22:00	106.2	106.2	5.2	303
Smoky Heights	418874	Aug-29-2023	22:00	23:00	112.2	112.2	6.3	277
Smoky Heights	418874	Aug-30-2023	23:00	00:00	219.7	219.7	7.8	270
Smoky Heights	418874	Aug-30-2023	00:00	01:00	211	211	4	231
Smoky Heights	418874	Aug-30-2023	01:00	02:00	175.8	175.8	7.6	194
Smoky Heights	418874	Aug-30-2023	02:00	03:00	181.4	181.4	5.6	210
Smoky Heights	418874	Aug-30-2023	03:00	04:00	166.4	166.4	8	199
Smoky Heights	418874	Aug-30-2023	04:00	05:00	155.4	155.4	8.2	197
Smoky Heights	418874	Aug-30-2023	05:00	06:00	119.6	119.6	4.8	209
Smoky Heights	418874	Aug-30-2023	11:00	12:00	83.4	83.4	6.9	218
Smoky Heights	418874	Aug-30-2023	12:00	13:00	119	119	6.1	250
Smoky Heights	418874	Aug-30-2023	13:00	14:00	232.3	232.3	7.2	286
Smoky Heights	418874	Aug-30-2023	14:00	15:00	228	228	9.1	294
Smoky Heights	418874	Aug-30-2023	15:00	16:00	201.7	201.7	9.4	300
Smoky Heights	418874	Aug-30-2023	16:00	17:00	149.9	149.9	8.7	300
Smoky Heights	418874	Aug-30-2023	17:00	18:00	133.2	133.2	4.2	278
Smoky Heights	418874	Aug-30-2023	18:00	19:00	108.9	108.9	8.2	237
Smoky Heights	418874	Aug-31-2023	20:00	21:00	86.4	86.4	10.7	272
Smoky Heights	418874	Aug-31-2023	21:00	22:00	115.7	115.7	12	271
Smoky Heights	422625	Nov-30-2023	15:00	16:00	87.1	87.1	2.5	279
Smoky Heights	422625	Nov-30-2023	16:00	17:00	82.9	82.9	3.6	359
Smoky Heights	418874	Sep-02-2023	01:00	02:00	95.9	95.9	17.3	244
Smoky Heights	418874	Sep-02-2023	02:00	03:00	149.6	149.6	16.5	260
Smoky Heights	418874	Sep-02-2023	03:00	04:00	183.8	183.8	12.9	241
Smoky Heights	418874	Sep-02-2023	04:00	05:00	122.6	122.6	13.3	249
Smoky Heights	418874	Sep-02-2023	06:00	07:00	90	90	12.6	246
Smoky Heights	418874	Sep-02-2023	11:00	12:00	84.7	84.7	23.9	268
Smoky Heights	418874	Sep-02-2023	12:00	13:00	101.9	101.9	26.9	264

Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	418874	Sep-02-2023	13:00	14:00	109.7	109.7	23.6	270
Smoky Heights	418874	Sep-02-2023	14:00	15:00	111.4	111.4	24.2	277
Smoky Heights	418874	Sep-02-2023	15:00	16:00	95.3	95.3	19.8	282
Smoky Heights	418874	Sep-02-2023	16:00	17:00	83.8	83.8	9.9	305
Smoky Heights	418874	Sep-02-2023	17:00	18:00	116.8	116.8	5.7	286
Smoky Heights	418874	Sep-02-2023	18:00	19:00	173.3	173.3	3.3	260
Smoky Heights	418874	Sep-02-2023	19:00	20:00	113.6	113.6	5.8	200
Smoky Heights	418874	Sep-02-2023	21:00	22:00	164.4	164.4	9.4	262
Smoky Heights	418874	Sep-03-2023	00:00	01:00	94.1	94.1	5.2	256
Smoky Heights	418874	Sep-03-2023	01:00	02:00	91.2	91.2	5.5	224
Smoky Heights	418874	Sep-03-2023	02:00	03:00	86.1	86.1	7.4	251
Smoky Heights	418874	Sep-03-2023	04:00	05:00	82.7	82.7	11.9	249
Smoky Heights	418874	Sep-03-2023	05:00	06:00	164.5	164.5	10.5	257
Smoky Heights	418874	Sep-03-2023	06:00	07:00	242.7	242.7	12.1	216
Smoky Heights	418874	Sep-03-2023	07:00	08:00	259	259	10.3	229
Smoky Heights	418874	Sep-03-2023	08:00	09:00	218.7	218.7	10.9	207
Smoky Heights	418874	Sep-03-2023	09:00	10:00	172.4	172.4	15.8	240
Smoky Heights	418874	Sep-03-2023	10:00	11:00	96.8	96.8	17.5	269
Smoky Heights	418874	Sep-03-2023	12:00	13:00	112	112	11.3	299
Smoky Heights	418874	Sep-03-2023	13:00	14:00	168	168	7.3	14
Smoky Heights	418874	Sep-03-2023	14:00	15:00	171.8	171.8	7.7	14
Smoky Heights	418874	Sep-03-2023	15:00	16:00	150.6	150.6	7.8	24
Smoky Heights	418874	Sep-03-2023	16:00	17:00	113.6	113.6	3.5	27
Smoky Heights	419602	Sep-11-2023	16:00	17:00	155.3	155.3	8.2	258
Smoky Heights	419602	Sep-15-2023	19:00	20:00	113	113	8.4	270
Smoky Heights	419602	Sep-15-2023	20:00	21:00	96.6	96.6	8.5	272
Smoky Heights	419602	Sep-15-2023	22:00	23:00	118.5	118.5	4.6	280
Smoky Heights	419602	Sep-16-2023	23:00	00:00	130.1	130.1	2	235
Smoky Heights	419602	Sep-16-2023	00:00	01:00	122.1	122.1	7.1	246
Smoky Heights	419602	Sep-16-2023	01:00	02:00	129	129	6.8	246
Smoky Heights	419602	Sep-16-2023	02:00	03:00	159.4	159.4	6.4	251
Smoky Heights	419602	Sep-16-2023	03:00	04:00	175.1	175.1	8.4	233
Smoky Heights	419602	Sep-16-2023	04:00	05:00	165.9	165.9	8.6	248
Smoky Heights	419602	Sep-16-2023	05:00	06:00	155.3	155.3	11	251
Smoky Heights	419602	Sep-16-2023	06:00	07:00	206.4	206.4	12.5	224
Smoky Heights	419602	Sep-16-2023	07:00	08:00	245.4	245.4	13.5	229
Smoky Heights	419602	Sep-16-2023	08:00	09:00	283.5	283.5	9.9	244
Smoky Heights	419602	Sep-16-2023	09:00	10:00	292.4	292.4	6.6	175
Smoky Heights	419602	Sep-16-2023	10:00	11:00	208.7	208.7	8.2	170
Smoky Heights	419602	Sep-16-2023	11:00	12:00	249.4	249.4	6.6	173
Smoky Heights	419602	Sep-16-2023	12:00	13:00	255	255	8.1	158
Smoky Heights	419602	Sep-16-2023	13:00	14:00	204.9	204.9	7.1	157
Smoky Heights	419602	Sep-16-2023	14:00	15:00	195.7	195.7	8.4	151
Smoky Heights	419602	Sep-16-2023	15:00	16:00	238	238	10.5	144
Smoky Heights	419602	Sep-16-2023	16:00	17:00	233.7	233.7	6.7	141
Smoky Heights	419602	Sep-16-2023	17:00	18:00	210.5	210.5	2.5	121
Smoky Heights	419602	Sep-16-2023	18:00	19:00	215.1	215.1	1.8	114
Smoky Heights	419602	Sep-16-2023	19:00	20:00	223.3	223.3	4.1	28
Smoky Heights	419602	Sep-16-2023	20:00	21:00	216.9	216.9	5.1	10
Smoky Heights	419602	Sep-16-2023	21:00	22:00	215.1	215.1	5.3	13
Smoky Heights	419602	Sep-16-2023	22:00	23:00	225.1	225.1	6.1	16
Smoky Heights	419602	Sep-17-2023	23:00	00:00	218	218	5	37
Smoky Heights	419602	Sep-17-2023	00:00	01:00	194.5	194.5	0.8	330
Smoky Heights	419602	Sep-17-2023	01:00	02:00	181.6	181.6	10.7	262
Smoky Heights	419602	Sep-17-2023	02:00	03:00	177.7	177.7	5.5	295
Smoky Heights	419602	Sep-17-2023	03:00	04:00	171	171	4.1	209
Smoky Heights	419602	Sep-17-2023	04:00	05:00	193.3	193.3	7.7	246
Smoky Heights	419602	Sep-17-2023	05:00	06:00	199.1	199.1	7.2	237
Smoky Heights	419602	Sep-17-2023	06:00	07:00	175	175	8.1	193
Smoky Heights	419602	Sep-17-2023	07:00	08:00	149.3	149.3	14.2	253
Smoky Heights	419602	Sep-17-2023	08:00	09:00	132.2	132.2	19.9	250
Smoky Heights	419602	Sep-17-2023	09:00	10:00	98.8	98.8	28.2	264
Smoky Heights	419602	Sep-17-2023	11:00	12:00	84.3	84.3	18.4	236
Smoky Heights	419602	Sep-17-2023	12:00	13:00	101.7	101.7	20.9	237
Smoky Heights	419602	Sep-17-2023	13:00	14:00	113.8	113.8	18	219
Smoky Heights	419602	Sep-17-2023	14:00	15:00	97.9	97.9	20.2	231
Smoky Heights	419602	Sep-17-2023	15:00	16:00	110.3	110.3	16.3	223
Smoky Heights	419602	Sep-17-2023	16:00	17:00	126.8	126.8	13	192
Smoky Heights	419602	Sep-17-2023	17:00	18:00	136.1	136.1	8.6	187



Site	Reference Number	Date	From MST	To MST	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	419602	Sep-17-2023	18:00	19:00	139.9	139.9	7.9	178
Smoky Heights	419602	Sep-17-2023	19:00	20:00	138.5	138.5	7.3	167
Smoky Heights	419602	Sep-17-2023	20:00	21:00	138.8	138.8	1.2	147
Smoky Heights	419602	Sep-17-2023	21:00	22:00	135.7	135.7	2.3	260
Smoky Heights	419602	Sep-17-2023	22:00	23:00	128	128	3.8	242
Smoky Heights	419951	Sep-18-2023	23:00	00:00	122.7	122.7	6.8	261
Smoky Heights	419951	Sep-18-2023	00:00	01:00	97.4	97.4	9.7	271
Smoky Heights	419951	Sep-20-2023	11:00	12:00	91.6	91.6	5.9	352
Smoky Heights	419951	Sep-20-2023	12:00	13:00	91.5	91.5	4.8	17

24-hr readings above the PM<sub>2.5</sub> AAAQO (29  $\mu\text{g}/\text{m}^3$ ) was recorded as:

**Note:** correction of T640 data has been updated in "Corr." column with the original data shown in the "Orig." column, the correction that dropped average below AAAQG has been highlighted (no changes were made to Dunes or Smoky Heights)

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	408633	Jan-13-2023	32.4	32.4	1.9	145
Beaverlodge	412612	May-05-2023	76	76.0	24.2	110
Beaverlodge	412612	May-06-2023	88.2	88.2	29.4	101
Beaverlodge	412612	May-07-2023	31.8	31.8	16.8	103
Beaverlodge	412828	May-09-2023	30	30.0	6.1	346
Beaverlodge	412828	May-10-2023	35.7	35.7	7	98
Beaverlodge	412828	May-14-2023	61.5	61.5	7.7	84
Beaverlodge	413246	May-15-2023	128.8	128.8	6	26
Beaverlodge	413246	May-16-2023	77.8	77.8	9.1	266
Beaverlodge	413246	May-17-2023	96.1	96.1	5.6	93
Beaverlodge	413246	May-18-2023	253.4	253.4	8.4	98
Beaverlodge	413246	May-19-2023	330.8	330.8	11.2	292
Beaverlodge	413603	May-22-2023	32.7	32.7	10.9	10
Beaverlodge	414002	May-30-2023	31.6	31.6	5.7	316
Beaverlodge	414464	Jun-08-2023	35.8	35.8	14.6	86
Beaverlodge	414464	Jun-09-2023	49	49.0	11.6	96
Beaverlodge	414786	Jun-12-2023	59.6	59.6	6.4	295
Beaverlodge	414786	Jun-15-2023	33.6	33.6	7.9	146
Beaverlodge	415436	Jun-25-2023	29.9	29.9	5.6	67
Beaverlodge	416559	Jul-10-2023	72.5	72.5	7.1	27
Beaverlodge	416559	Jul-12-2023	92.9	92.9	6.5	284
Beaverlodge	416559	Jul-13-2023	61.5	61.5	8.2	325
Beaverlodge	416559	Jul-15-2023	92.4	92.4	3.9	224
Beaverlodge	416559	Jul-16-2023	98.3	98.3	5.8	10
Beaverlodge	416952	Jul-20-2023	167.5	167.5	5.6	97
Beaverlodge	416952	Jul-21-2023	138	138.0	10.9	58
Beaverlodge	416952	Jul-22-2023	72.7	72.7	6.5	219
Beaverlodge	417317	Jul-24-2023	40.5	40.5	6.4	344
Beaverlodge	417317	Jul-27-2023	46.4	46.4	11.5	47
Beaverlodge	418444	Aug-24-2023	58.3	56.4	8	304
Beaverlodge	418444	Aug-25-2023	47.8	46.2	5.1	141
Beaverlodge	418444	Aug-26-2023	38.7	37.2	8.4	254
Beaverlodge	418444	Aug-27-2023	57.3	55.8	4.9	195
Beaverlodge	418872	Aug-28-2023	91.3	89.9	5.7	215
Beaverlodge	418872	Aug-29-2023	73.8	72.4	4.1	64
Beaverlodge	418872	Aug-30-2023	77	75.5	10.5	272
Beaverlodge	418872	Sep-01-2023	34	32.7	18.7	248
Beaverlodge	418872	Sep-02-2023	64.5	62.8	17	273
Beaverlodge	418872	Sep-03-2023	185.9	184.0	11.7	318
Beaverlodge	419196	Sep-05-2023	38.3	36.4	4.6	190

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Beaverlodge	419196	Sep-06-2023	41.2	39.3	7.8	235
Beaverlodge	419625	Sep-11-2023	50	48.3	8	267
Beaverlodge	419625	Sep-12-2023	36	34.1	6.3	250
Beaverlodge	419625	Sep-14-2023	48.2	46.5	6.5	234
Beaverlodge	419625	Sep-15-2023	49.3	47.7	7.5	253
Beaverlodge	419625	Sep-16-2023	344.8	343.0	5.8	245
Beaverlodge	419625	Sep-17-2023	148.0	146.1	7.8	258
Beaverlodge	420273	Sep-29-2023	38.8	37.0	5.4	67
Dunes	412613	May-05-2023	54.9	54.9	9.4	124
Dunes	412613	May-06-2023	58.8	58.8	11.3	113
Dunes	412613	May-07-2023	30.2	30.2	5	92
Dunes	412829	May-08-2023	37.8	37.8	3.3	293
Dunes	412829	May-09-2023	39	39	2.5	326
Dunes	412829	May-10-2023	34.7	34.7	3.5	137
Dunes	412829	May-12-2023	35.2	35.2	2.6	118
Dunes	412829	May-14-2023	60.3	60.3	2.9	126
Dunes	413248	May-15-2023	132.7	132.7	2.8	84
Dunes	413248	May-16-2023	159.8	159.8	2.3	291
Dunes	413248	May-17-2023	116.2	116.2	2.5	81
Dunes	413248	May-18-2023	272.7	272.7	3.4	104
Dunes	413248	May-19-2023	348.9	348.9	4	292
Dunes	413248	May-20-2023	271.8	271.8	3	125
Dunes	413248	May-21-2023	92.6	92.6	2.8	220
Dunes	414465	Jun-07-2023	33.8	33.8	4.3	310
Dunes	414465	Jun-08-2023	42.6	42.6	4.7	79
Dunes	414465	Jun-09-2023	47	47	4.2	100
Dunes	414465	Jun-10-2023	38.3	38.3	4.6	275
Dunes	414465	Jun-11-2023	38.6	38.6	2.9	275
Dunes	414790	Jun-12-2023	51.5	51.5	2.9	270
Dunes	414790	Jun-13-2023	41.5	41.5	3.5	328
Dunes	414790	Jun-14-2023	101.5	101.5	5.3	316
Dunes	414790	Jun-15-2023	38	38	3.3	213
Dunes	416558	Jul-10-2023	67.4	67.4	3.2	231
Dunes	416558	Jul-11-2023	47.6	47.6	1.9	212
Dunes	416558	Jul-12-2023	93.9	93.9	3.1	256
Dunes	416558	Jul-14-2023	32.5	32.5	2.1	242
Dunes	416558	Jul-15-2023	72.8	72.8	1.9	230
Dunes	416558	Jul-16-2023	105.8	105.8	2.4	192
Dunes	416951	Jul-20-2023	50.2	50.2	1.6	98
Dunes	416951	Jul-21-2023	45.1	45.1	3.3	39
Dunes	418445	Aug-24-2023	55.9	55.9	3.9	253
Dunes	418445	Aug-25-2023	29.3	29.3	1.8	168
Dunes	418445	Aug-27-2023	33.5	33.5	3.1	221
Dunes	418873	Aug-28-2023	52	52	1.9	194
Dunes	418873	Aug-29-2023	57.8	57.8	1.5	203
Dunes	418873	Aug-30-2023	55	55	3.6	272
Dunes	418873	Sep-03-2023	108.6	108.6	5	313
Dunes	419609	Sep-11-2023	33.4	33.4	1.8	244
Dunes	419609	Sep-14-2023	39	39	3	228
Dunes	419609	Sep-16-2023	127.6	127.6	1.8	179
Dunes	419609	Sep-17-2023	136.4	136.4	3.1	219
Dunes	419948	Sep-20-2023	45.7	45.7	2.9	239
Fox Creek	422345	Oct-10-2023	34.3	32.5	2.4	268
Henry Pirker	408510	Jan-10-2023	34.7	32.8	2.1	344

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	408634	Jan-13-2023	34	32.1	3.1	83
Henry Pirker	408661	Jan-14-2023	39.4	37.5	2.1	310
Henry Pirker	408704	Jan-15-2023	33.7	31.8	2.4	10
Henry Pirker	408748	Jan-16-2023	29.4	27.5	1.7	179
Henry Pirker	408811	Jan-17-2023	40.7	38.8	1.7	275
Henry Pirker	412614	May-05-2023	79.8	78.5	13	111
Henry Pirker	412614	May-06-2023	107	105.4	15.1	97
Henry Pirker	412614	May-07-2023	40	38.3	8	87
Henry Pirker	412830	May-08-2023	42.2	40.5	5.1	278
Henry Pirker	412830	May-09-2023	61	59.4	3.5	293
Henry Pirker	412830	May-10-2023	49.4	47.8	5.2	121
Henry Pirker	412830	May-11-2023	31.3	29.8	4.4	210
Henry Pirker	412830	May-13-2023	31.4	30.0	2.7	155
Henry Pirker	412830	May-14-2023	79.2	77.9	4.7	92
Henry Pirker	413249	May-15-2023	225.3	223.9	3.7	88
Henry Pirker	413249	May-16-2023	248.7	247.1	3.9	337
Henry Pirker	413249	May-17-2023	143.3	141.7	3.5	82
Henry Pirker	413249	May-18-2023	467.3	465.6	6.1	85
Henry Pirker	413249	May-19-2023	377.8	376.3	8.9	284
Henry Pirker	413249	May-20-2023	294.7	293.2	4	95
Henry Pirker	413249	May-21-2023	126.5	124.9	5.1	243
Henry Pirker	413605	May-22-2023	76.1	74.2	5.2	16
Henry Pirker	414466	Jun-07-2023	43.2	42.0	6.3	290
Henry Pirker	414466	Jun-08-2023	58.6	57.3	7.4	70
Henry Pirker	414466	Jun-09-2023	64.7	63.5	8.8	85
Henry Pirker	414466	Jun-10-2023	74	72.7	10.1	266
Henry Pirker	414466	Jun-11-2023	71	69.6	6.2	276
Henry Pirker	414788	Jun-12-2023	100	98.7	5.2	276
Henry Pirker	414788	Jun-13-2023	69.2	67.4	7	312
Henry Pirker	414788	Jun-14-2023	164.1	162.2	11.5	304
Henry Pirker	414788	Jun-15-2023	67.1	65.6	5.4	224
Henry Pirker	415437	Jun-25-2023	36.3	34.6	4.2	34
Henry Pirker	418201	Jul-06-2023	33	31.7	3.6	357
Henry Pirker	416557	Jul-10-2023	73.5	72.3	5.1	229
Henry Pirker	416557	Jul-11-2023	67.8	66.5	3.4	191
Henry Pirker	416557	Jul-12-2023	126.2	124.9	6.2	267
Henry Pirker	416557	Jul-13-2023	97.7	96.1	5	265
Henry Pirker	416557	Jul-14-2023	50.1	48.7	4.9	245
Henry Pirker	416557	Jul-15-2023	99.5	98.1	3.5	230
Henry Pirker	416557	Jul-16-2023	145.7	144.3	3.8	259
Henry Pirker	416950	Jul-17-2023	34.3	32.8	8.1	249
Henry Pirker	416950	Jul-20-2023	67.8	66.5	3.6	83
Henry Pirker	416950	Jul-21-2023	56.7	55.4	6.1	47
Henry Pirker	418446	Aug-24-2023	63.2	61.3	6	277
Henry Pirker	418446	Aug-25-2023	43.9	42.4	3.1	154
Henry Pirker	418446	Aug-26-2023	37.9	36.5	6.8	250
Henry Pirker	418446	Aug-27-2023	49.5	48.1	5	225
Henry Pirker	418872	Aug-28-2023	84	82.6	4.2	205
Henry Pirker	418872	Aug-29-2023	114.4	112.9	2.4	232
Henry Pirker	418872	Aug-30-2023	93.7	92.2	9.1	260
Henry Pirker	418872	Aug-31-2023	34.4	33.1	8.8	274
Henry Pirker	418872	Sep-01-2023	30.4	28.6	13.3	239
Henry Pirker	418872	Sep-02-2023	59.6	58.1	12.8	269
Henry Pirker	418872	Sep-03-2023	158.4	156.5	8.7	295

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Henry Pirker	419195	Sep-04-2023	32.7	30.8	4.2	152
Henry Pirker	419195	Sep-05-2023	30.3	28.4	4.7	149
Henry Pirker	419195	Sep-06-2023	38.8	36.9	5.2	237
Henry Pirker	419608	Sep-11-2023	46.5	44.9	3.7	261
Henry Pirker	419608	Sep-12-2023	34.1	32.4	4.3	220
Henry Pirker	419608	Sep-13-2023	31.4	29.5	14.5	246
Henry Pirker	419608	Sep-14-2023	62.6	61.0	4.8	211
Henry Pirker	419608	Sep-15-2023	29.7	28.1	3.7	167
Henry Pirker	419608	Sep-16-2023	285.1	283.4	3.4	123
Henry Pirker	419608	Sep-17-2023	199	197.2	5.5	229
Henry Pirker	419949	Sep-20-2023	77	75.2	4.7	229
Henry Pirker	420271	Sep-29-2023	44.4	42.7	2.3	81
Henry Pirker	423459	Dec 31-2023	43.2	43.2	3.9	246
Milner	408386	Jan-06-2023	36.2	36.2	4.1	274
Milner	408387	Jan-07-2023	37.8	37.8	1.4	280
Milner	411230	Mar-31-2023	51.4	51.4	5.1	246
Milner	411249	Apr-01-2023	52.3	52.3	5.1	250
Milner	411266	Apr-02-2023	49.7	49.7	5.3	195
Milner	411294	Apr-03-2023	52.5	52.5	4.7	184
Milner	411339	Apr-04-2023	36.9	36.9	2.9	206
Milner	411393	Apr-05-2023	89.6	89.6	6.8	250
Milner	411441	Apr-06-2023	62.7	62.7	4.8	236
Milner	411460	Apr-07-2023	46.4	46.4	7.7	239
Milner	411507	Apr-09-2023	32.5	32.5	9.9	199
Milner	411739	Apr-15-2023	49.6	49.6	5.1	244
Milner	411801	Apr-16-2023	79.5	79.5	4.5	240
Milner	411801	Apr-17-2023	81.1	81.1	15.1	259
Milner	411801	Apr-18-2023	69.5	69.5	5.4	246
Milner	412615	May-05-2023	41.8	41.8	6.8	70
Milner	412615	May-06-2023	125.4	125.4	7.8	68
Milner	413068	May-14-2023	32	32.0	3.2	273
Milner	413510	May-16-2023	85.8	85.8	3.5	61
Milner	413510	May-17-2023	92.8	92.8	2.3	67
Milner	413510	May-18-2023	123.9	123.9	3	238
Milner	415137	Jun-14-2023	43.5	43.5	4.3	256
Milner	415789	Jun-28-2023	29.2	29.2	2.8	251
Milner	416556	Jul-12-2023	64.1	64.1	3.5	248
Milner	416556	Jul-13-2023	67	67.0	3.6	253
Milner	416556	Jul-15-2023	74.3	74.3	2	262
Milner	416556	Jul-16-2023	46	46.0	3.6	264
Milner	416949	Jul-19-2023	37.6	37.6	2.7	228
Milner	416949	Jul-20-2023	32	32.0	1.5	211
Milner	418170	Aug-17-2023	48	48.0	13.7	252
Milner	418452	Aug-21-2023	30.8	30.8	2.2	63
Milner	418875	Aug-28-2023	41.1	41.1	3	254
Milner	418875	Aug-30-2023	54.2	52.3	1.9	261
Milner	418875	Sep-01-2023	32.1	30.4	10.6	236
Milner	418875	Sep-02-2023	54.1	52.2	16.5	242
Milner	418875	Sep-03-2023	150.9	149.1	5.3	228
Milner	419194	Sep-04-2023	62.9	61.1	3.3	64
Milner	419194	Sep-05-2023	50.8	49.0	3.2	247
Milner	419607	Sep-16-2023	73.7	71.9	2.8	236
Milner	419607	Sep-17-2023	67.1	65.2	5	241
Poplar	412616	May-05-2023	45	45.0	21.8	122

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Poplar	412616	May-06-2023	52	52.0	30.9	106
Poplar	412832	May-09-2023	35.2	35.2	7.4	291
Poplar	412832	May-10-2023	30.7	30.7	11	74
Poplar	412832	May-14-2023	34.3	34.3	11.2	116
Poplar	413250	May-15-2023	141.4	141.4	5.8	22
Poplar	413250	May-16-2023	88.2	88.2	7.5	3
Poplar	413250	May-17-2023	68.2	68.2	7.9	120
Poplar	413250	May-18-2023	210.5	210.5	11.1	115
Poplar	413250	May-19-2023	204.5	204.5	14.6	299
Poplar	413250	May-20-2023	163.6	163.6	9.2	120
Poplar	414467	Jun-07-2023	37.8	37.8	10.6	281
Poplar	414467	Jun-08-2023	33.5	33.5	15.3	98
Poplar	414467	Jun-09-2023	48.1	48.1	15.9	110
Poplar	414467	Jun-10-2023	71.9	71.9	15.6	285
Poplar	414467	Jun-11-2023	42	42.0	10.3	286
Poplar	414787	Jun-12-2023	60.7	60.7	7	286
Poplar	414787	Jun-14-2023	74.6	74.6	17.7	316
Poplar	414787	Jun-15-2023	42.7	42.7	9	262
Poplar	416555	Jul-10-2023	77.6	77.6	8.9	281
Poplar	416555	Jul-11-2023	42.5	42.5	4.5	231
Poplar	416555	Jul-12-2023	82.3	82.3	9.5	296
Poplar	416555	Jul-13-2023	70.3	70.3	9.9	306
Poplar	416555	Jul-14-2023	33.8	33.8	8.5	290
Poplar	416555	Jul-15-2023	82.7	82.7	6.1	287
Poplar	416555	Jul-16-2023	106.2	106.2	6	316
Poplar	416953	Jul-20-2023	60	60.0	6.5	107
Poplar	416953	Jul-21-2023	59.2	59.2	10.4	69
Poplar	418447	Aug-24-2023	37.4	37.4	8.2	291
Poplar	418447	Aug-27-2023	38	38.0	9.9	271
Poplar	418877	Aug-28-2023	57.7	57.7	6.2	259
Poplar	418877	Aug-29-2023	71.3	71.3	4.6	319
Poplar	418877	Aug-30-2023	51.5	51.5	16.6	285
Poplar	418877	Sep-02-2023	50.7	50.7	18.8	280
Poplar	418877	Sep-03-2023	87.3	87.3	14.3	311
Poplar	419604	Sep-11-2023	44.8	43.1	11.1	279
Poplar	419604	Sep-12-2023	34.9	33.1	10	273
Poplar	419604	Sep-14-2023	31	29.2	9.8	272
Poplar	419604	Sep-15-2023	46	44.4	7.9	248
Poplar	419604	Sep-16-2023	287.7	286.0	7.6	255
Poplar	419604	Sep-17-2023	152.4	150.5	12.5	266
Poplar	419950	Sep-20-2023	49.3	47.5	8.2	296
Poplar	421646	Nov-4-2023	29.8	28.0	11.8	91
Smoky Heights	412617	May-07-2023	36	36	9.5	92
Smoky Heights	412833	May-08-2023	35.2	35.2	6.1	245
Smoky Heights	412833	May-09-2023	45.5	45.5	4.2	60
Smoky Heights	412833	May-10-2023	33.1	33.1	7	162
Smoky Heights	412833	May-14-2023	69.7	69.7	5	95
Smoky Heights	413251	May-15-2023	267.6	267.6	7.4	216
Smoky Heights	413251	May-16-2023	77.6	77.6	6.7	337
Smoky Heights	413251	May-17-2023	70.3	70.3	4.8	46
Smoky Heights	413251	May-18-2023	265.4	265.4	6.9	99
Smoky Heights	413251	May-19-2023	368.6	368.6	11.9	263
Smoky Heights	413251	May-20-2023	297.2	297.2	4.7	47
Smoky Heights	413251	May-21-2023	241.1	241.1	10.2	225

Site	Reference Number	Date	Orig. $\mu\text{g}/\text{m}^3$	Corr. $\mu\text{g}/\text{m}^3$	WS km/hr	WD degrees
Smoky Heights	413607	May-22-2023	69.7	69.7	11.4	18
Smoky Heights	414280	Jun-03-2023	33.3	33.3	14.5	110
Smoky Heights	414468	Jun-07-2023	38.1	38.1	9	247
Smoky Heights	414468	Jun-08-2023	52.1	52.1	9.7	45
Smoky Heights	414468	Jun-09-2023	41.1	41.1	9.3	68
Smoky Heights	414468	Jun-10-2023	87.3	87.3	12.1	249
Smoky Heights	414468	Jun-11-2023	49.8	49.8	9.4	263
Smoky Heights	414791	Jun-12-2023	52	52	7.2	239
Smoky Heights	414791	Jun-13-2023	45.1	45.1	8	325
Smoky Heights	414791	Jun-15-2023	43.4	43.4	8.9	278
Smoky Heights	418198	Jul-09-2023	31	31	9.9	225
Smoky Heights	416554	Jul-10-2023	63.6	63.6	7.5	245
Smoky Heights	416554	Jul-11-2023	39.4	39.4	4.8	249
Smoky Heights	416554	Jul-12-2023	66.4	66.4	5.1	294
Smoky Heights	416554	Jul-13-2023	96.4	96.4	5.2	300
Smoky Heights	416554	Jul-14-2023	43.2	43.2	4.2	202
Smoky Heights	416554	Jul-15-2023	67.6	67.6	5.1	206
Smoky Heights	416554	Jul-16-2023	93.5	93.5	6.5	191
Smoky Heights	416948	Jul-19-2023	31.2	31.2	8.2	266
Smoky Heights	416948	Jul-20-2023	63.1	63.1	4.1	59
Smoky Heights	416948	Jul-21-2023	50.7	50.7	7.4	24
Smoky Heights	418448	Aug-24-2023	83	83	7.8	258
Smoky Heights	418448	Aug-25-2023	29.7	29.7	7	174
Smoky Heights	418448	Aug-26-2023	33.2	33.2	11.3	245
Smoky Heights	418448	Aug-27-2023	37	37	11.6	226
Smoky Heights	418874	Aug-28-2023	69.3	69.3	9.9	215
Smoky Heights	418874	Aug-29-2023	77.9	77.9	6.9	224
Smoky Heights	418874	Aug-30-2023	110.8	110.8	10.8	241
Smoky Heights	418874	Aug-31-2023	32.7	32.7	15	264
Smoky Heights	418874	Sep-02-2023	96	96	15.1	257
Smoky Heights	418874	Sep-03-2023	112.5	112.5	9.4	282
Smoky Heights	419602	Sep-12-2023	30.8	30.8	11.7	232
Smoky Heights	419602	Sep-15-2023	35.6	35.6	8.7	211
Smoky Heights	419602	Sep-16-2023	210.2	210.2	7.4	205
Smoky Heights	419602	Sep-17-2023	138.5	138.5	11.5	236
Smoky Heights	419951	Sep-20-2023	49	49	5.2	220
Smoky Heights	420270	Sep-29-2023	34.5	34.5	4.5	42

**The following are passive and dustfall readings above the AAAQO and AAAQG in 2023**

- January Milner Pipeline site at 285.8 mg/100cm<sup>2</sup>/30day (reference #409992)
- January Milner Wanyandie site at 54.7 mg/100cm<sup>2</sup>/30day (reference #409993)
- February Milner Wanyandie site at 55.1 mg/100cm<sup>2</sup>/30day (reference #410877)
- February Sulphur Dioxide passive at Kakwa 3 was recorded at 12.0 ppb, above the 30d SO<sub>2</sub> AAAQO (11 ppb), reference #417241
- November Milner Pipeline at 297.9 > 158 mg/100cm<sup>2</sup>/30day (reference #423404)
- November Milner Wanyandie at 69.8 > 53 mg/100cm<sup>2</sup>/30day (reference #423405)

**Operational times less than 90 percent:**

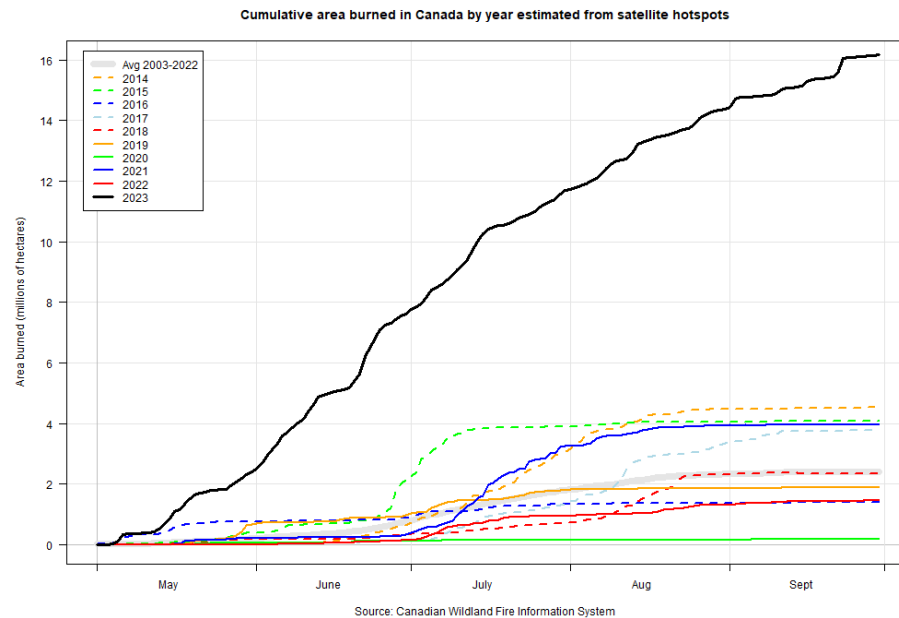
- Beaverlodge
- None
- Donnelly

- January, wind head froze resulting in 79% operational hours, reference #409991.
- Dunes
- None
- Henry Pirker
- None
- Milner
- May PM<sub>2.5</sub> was <90% due to DAS failure, negative drifting and maintenance (reference #415502)
  - July NO/NO<sub>2</sub>/NO<sub>x</sub> was <75% (67.7%) due to data removed (reference #418627)
- Poplar
- January wind head froze resulting in 88% operational hours, reference #409990
  - May PM<sub>2.5</sub> was <90% (81%) due to negative drifting and maintenance (reference #415501)
  - June PM<sub>2.5</sub> was <90% (89%) due to negative drifting and maintenance (reference #417205)
- Smoky Heights
- May TRS was <90% (89%) due to DAS failure an equipment issues (reference #415500)
  - June TRS was <90% (78%) due to analyzer issues (reference #417204)
  - July TRS was <90% (86.8%) due to analyzer issues (reference #418199)
  - September PM<sub>2.5</sub> was <90% (80%) due to analyzer issues (reference #421125)
- Valleyview
- July H<sub>2</sub>S was <75% (74.6%) due to analyzer issues (reference #418202)

## Air Incidents

Regionally there was elevated particulate readings in the early part of January, primarily due to low winds and low ceiling, trapping particulate closer to ground level. May to September Wildfires resulted in elevated particulate and ozone.

**The 2023 fire area burned is summarized as follows**



<https://cwfis.cfs.nrcan.gc.ca/maps/fm3?type=arpt&year=2023>

For a summary of daily burn maps (Fire M3 Hotspots) can be downloaded from site:

<https://cwfis.cfs.nrcan.gc.ca/maps/fm3?type=apt&year=2023&month=3&day=29>

## Deviations from Authorized Monitoring Methods

None to report

## Data deletions or resubmissions since monthly reports submitted.

PM<sub>2.5</sub> hourly data monitored with API T640 analyzers in 2023 were adjusted by AEPA and provided to PAZA. PAZA submitted the XML files to the ETS database in March 2024.

## Missed calibrations.

None to report

## AEP Audits in 2023.

None to report

## Passive Monitoring

Passive samples were analyzed by Bureau Veritas Laboratories

547 passive sulphur dioxide samples collected over 12 months at 49 sites in PAZA

- Minimum annual average was 0.1ppb collected at Milner Powerline
- Maximum annual average was 5.9ppb collected at Kakwa 3
- Maximum overall monthly average was 12.0ppb in June 2023

36 passive ozone samples collected over 12 months at 3 sites in PAZA

- Minimum annual average was 30.8ppb collected at Crooked Creek
- Maximum annual average was 31.7ppb collected at Bay Tree
- Maximum overall monthly average was 50.6ppb in April 2023

528 passive nitrogen dioxide samples collected over 12 months at 45 sites in PAZA

- Minimum annual average was 0.6ppb collected at Steeprock Creek
- Maximum annual average was 6.6ppb collected at Grande Prairie
- Maximum overall monthly average was 16.1ppb in January 2023

174 passive hydrogen sulphide samples collected over 12 months at 16 sites in PAZA

- Minimum annual average was 0.07ppb collected at Kakwa1
- Maximum annual average was 0.62ppb collected at Girouxville 3
- Maximum overall monthly average was 1.50ppb in September 2023

There was one exceedance of the AAAQOs for Sulphur Dioxide passive at Kakwa 3 which was recorded at 12.0 ppb, above the 30d SO<sub>2</sub> AAAQO (11 ppb), reference #417241

## Dustfall Monitoring

Dustfall samples were analyzed by Bureau Veritas Laboratories

60 dustfall samples collected over 12 months at 5 sites in PAZA

- Minimum annual average was 27.2 mg/100cm<sup>2</sup>/30day collected at Milner Bridge
- Maximum annual average was 112.2 mg/100cm<sup>2</sup>/30day collected at Milner Pipeline
- Maximum overall monthly average was 297.9 mg/100cm<sup>2</sup>/30day collected in November 2023



There were five monthly events above the AAAQGs for dustfall, three based on the residential and recreational area and two based on the commercial and industrial area during 2023.

- January Milner Pipeline site at 285.8 mg/100cm<sup>2</sup>/30day (reference #409992)
- January Milner Wanyandie site at 54.7 mg/100cm<sup>2</sup>/30day (reference #409993)
- February Milner Wanyandie site at 55.1 mg/100cm<sup>2</sup>/30day (reference #410877)
- November Milner Pipeline at 297.9 > 158 mg/100cm<sup>2</sup>/30day (reference #423404)
- November Milner Wanyandie at 69.8 > 53 mg/100cm<sup>2</sup>/30day (reference #423405)

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.



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

## 1 Summary of Key Parameters monitored in 2023

The PAZA air monitoring network in 2023 includes a continuous monitoring network and a passive network. The continuous monitoring network contains eight air monitoring stations. The following table identifies the parameters that have been monitored within the network in 2023.

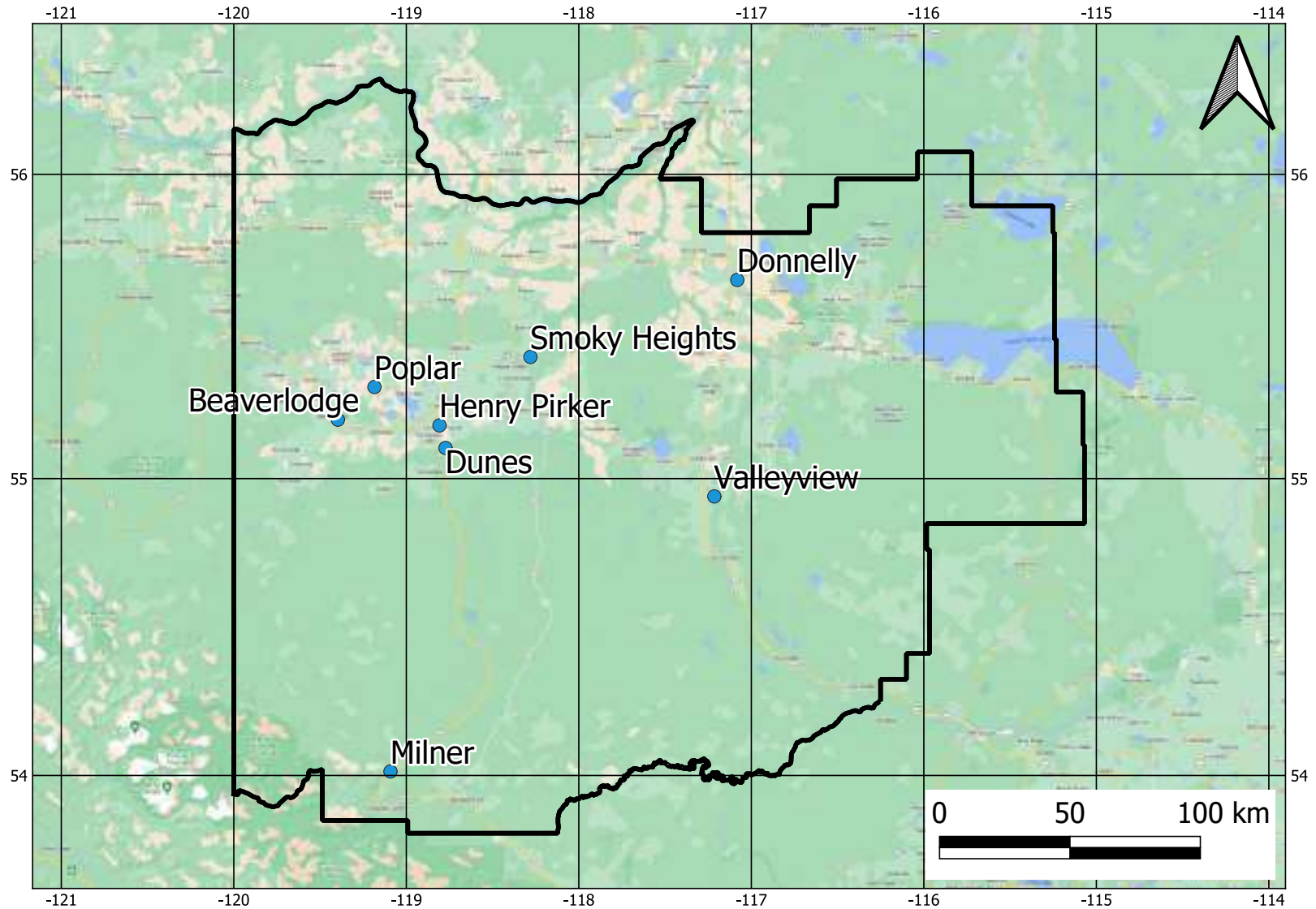
The continuous air monitoring stations in this report measured the following parameters in 2023:

Station Name	SO <sub>2</sub>	H <sub>2</sub> S / TRS	NO / NO <sub>2</sub> / NO <sub>x</sub>	O <sub>3</sub>	CO	THC / CH <sub>4</sub> / NMHC	PM <sub>2.5</sub>	ET / SR	RH	WS / WD
	Sulphur Dioxide	Hydrogen Sulphide / Total Reduced Sulphur	Nitric Oxide / Nitrogen Dioxide / Nitrogen Oxides	Ozone	Carbon Monoxide	Total Hydrocarbons / Methane / Nonmethane Hydrocarbons	Fine Particulate Matter	Temperature / Solar Radiation	Relative Humidity	Wind Speed / Wind Direction
Beaverlodge	SO <sub>2</sub>		NO / NO <sub>2</sub> / NO <sub>x</sub>	O <sub>3</sub>			PM <sub>2.5</sub>	ET	RH	WS / WD
Donnelly	SO <sub>2</sub>	H <sub>2</sub> S						ET		WS / WD
Dunes	SO <sub>2</sub>	TRS					PM <sub>2.5</sub>	ET	RH	WS / WD
Fox Creek	SO <sub>2</sub>	H <sub>2</sub> S	NO / NO <sub>2</sub> / NO <sub>x</sub>	O <sub>3</sub>			PM <sub>2.5</sub>	ET		WS / WD
Henry Pirker	SO <sub>2</sub>	H <sub>2</sub> S	NO / NO <sub>2</sub> / NO <sub>x</sub>	O <sub>3</sub>	CO	THC / CH <sub>4</sub> / NMHC	PM <sub>2.5</sub>	ET + SR	RH	WS / WD
Milner			NO / NO <sub>2</sub> / NO <sub>x</sub>				PM <sub>2.5</sub>			WS / WD
Poplar	SO <sub>2</sub>	TRS	NO / NO <sub>2</sub> / NO <sub>x</sub>	O <sub>3</sub>		THC / CH <sub>4</sub> / NMHC	PM <sub>2.5</sub>	ET		WS / WD
Smoky Heights	SO <sub>2</sub>	TRS					PM <sub>2.5</sub>	ET		WS / WD
Valleyview	SO <sub>2</sub>	H <sub>2</sub> S						ET	RH	WS / WD

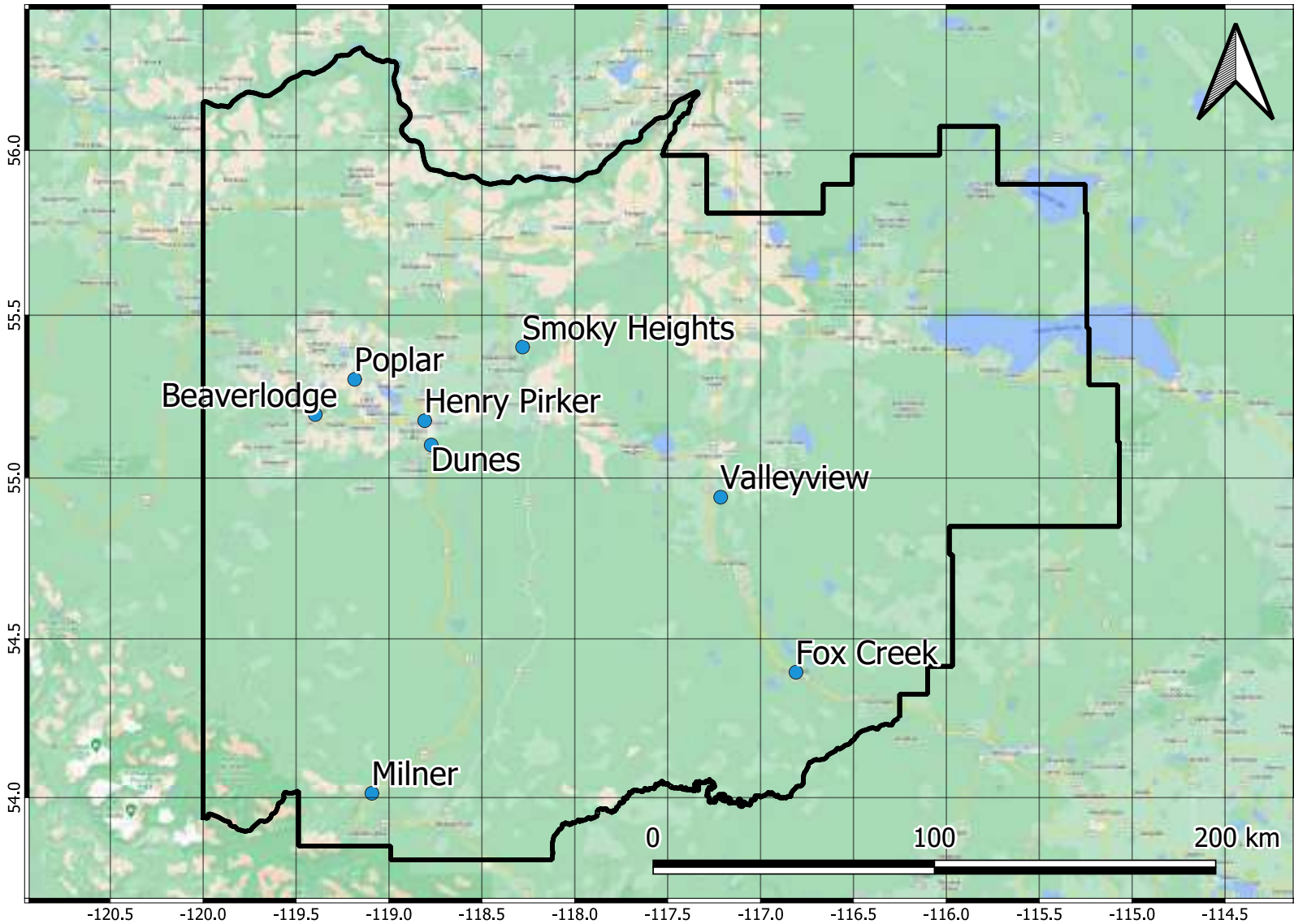
The following figure illustrates the location of the monitoring stations.

## 1.1 Map of PAZA Continuous Stations in 2023

### 1.1.1 Map of PAZA Continuous Stations in 2023 (January to July)



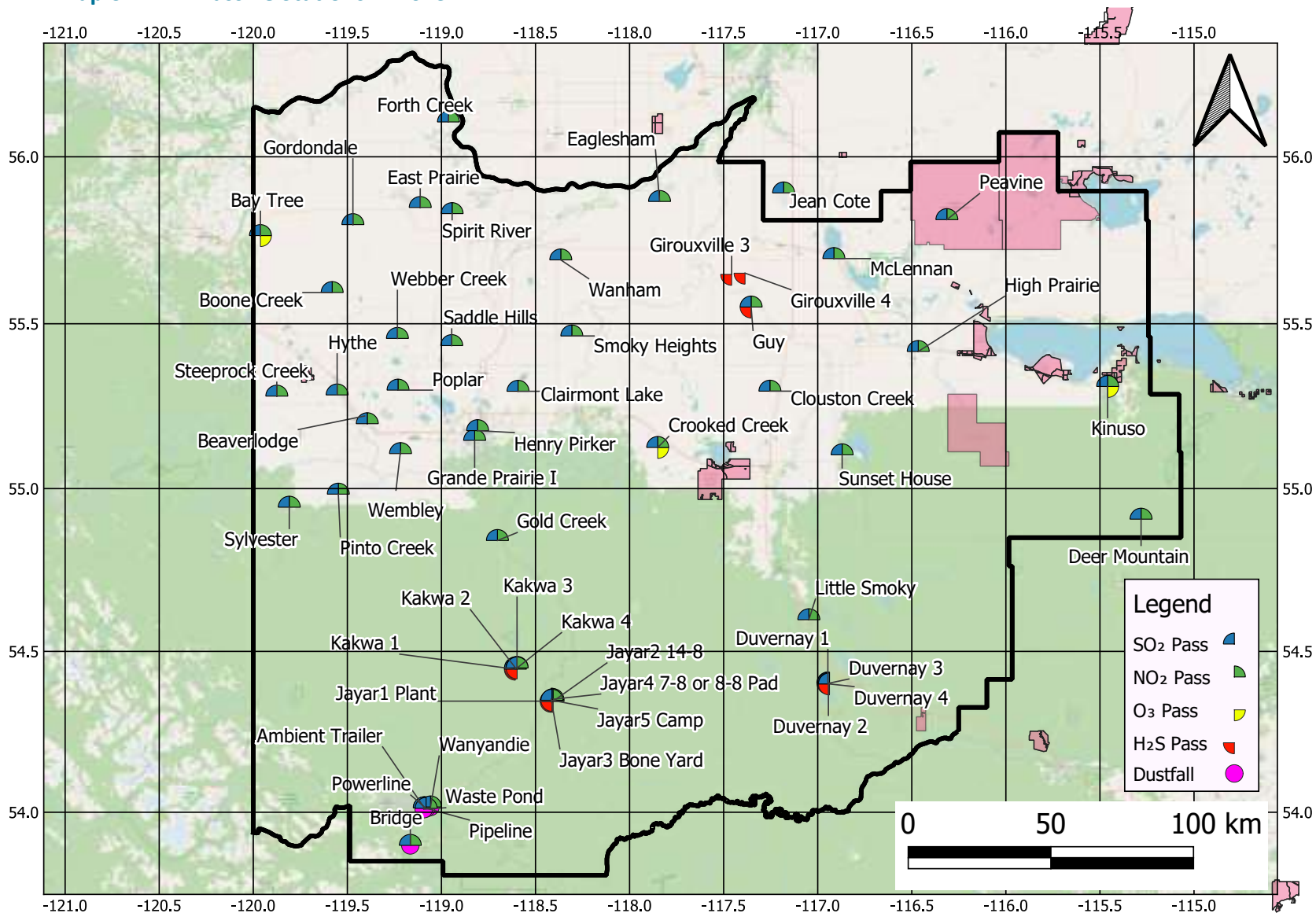
### 1.1.2 Map of PAZA Continuous Stations in 2023 (October to December)



The PAZA Passive monitoring network in 2023 included collection of NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>, H<sub>2</sub>S and dustfall at 50 sites located throughout the region, the following table highlights what is collected at each site and the figure illustrates the locations of the monitoring sites.

Site	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>	H <sub>2</sub> S	Dustfall
Bay Tree	X	X	X		
Forth Creek	X		X		
Boone Creek	X		X		
Steepprock Creek	X		X		
Spirit River	X		X		
Webber Creek	X		X		
Hythe	X		X		
Sylvester	X		X		
Beaverlodge	X		X		
Poplar	X		X		
Saddle Hills	X		X		
Wanham	X		X		
Eaglesham	X		X		
Wembley	X		X		
Pinto Creek	X		X		
Grande Prairie I	X		X		
Smoky Heights	X		X		
Fitzsimmons	X		X		
Gold Creek	X		X		
Jean Cote	X		X		
Guy	X		X	X	
Crooked Creek	X	X	X		
Clouston Creek	X		X		
McLennan	X		X		
Sunset House	X		X		
Peavine	X		X		
Little Smoky	X		X		
Kinuso	X	X	X		
Deer Mountain	X		X		
Henry Pirker	X		X		
East Prairie	X		X		
Jayar1 Plant	X		X	X	
Jayar2 14-8	X		X	X	
Jayar3 Bone Yard	X		X	X	
Jayar4 7-8 or 8-8 Pad	X		X	X	
Jayar5 Camp	X		X	X	
Girouxville 3				X	
Girouxville 4				X	
Duvernay 1	X			X	
Duvernay 2	X			X	
Duvernay 3	X			X	
Duvernay 4	X			X	
Milner Pipeline	X		X		X
Milner Bridge	X		X		X
Milner Wanyandie	X		X		X
Milner Ambient Trailer	X		X		
Milner Powerline	X		X		X
Milner Waste Pond					X
Kakwa 1	X		X	X	
Kakwa 2	X		X	X	
Kakwa 3	X		X	X	
Kakwa 4	X		X	X	

## 1.2 Map of PAZA Passive Stations in 2023



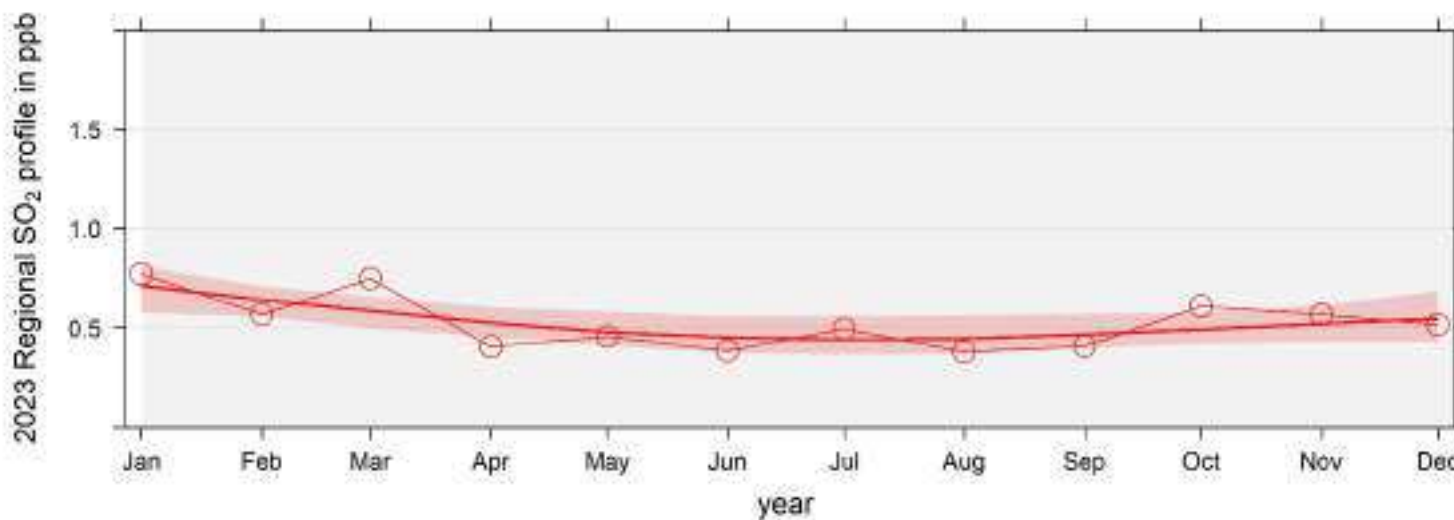
## 2 PAZA Key Parameters - 2023 Summary

### 2.1 Sulphur Dioxide (SO<sub>2</sub>) 2023 Summary

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Beaverlodge	Sulphur Dioxide SO <sub>2</sub> measured in ppb	0.7	5.2	Jan 14	20.0	Feb 25 15:00	99.4%	0	0	0	0
Donnelly		2.1	Mar 28	7.9	Mar 28 10:00		0	0	0	0	
Dunes		0.5	6.8	Mar 15	29.6	Mar 15 15:00	99.8%	0	0	0	0
Fox Creek		2.2	Dec 12	29.1	Dec 12 08:00		0	0	0	0	
Henry Pirker		0.5	5.2	Mar 15	25.2	Nov 03 11:00	99.1%	0	0	0	0
Poplar		1.2	6.0	Jan 12	58.0	Dec 16 15:00	99.0%	0	0	0	0
Smoky Heights		0.3	3.1	Mar 15	34.9	Oct 19 11:00	99.2%	0	0	0	0
Valleyview		0.1	0.7	May 18	3.8	Apr 06 02:00	98.8%	0	0	0	0

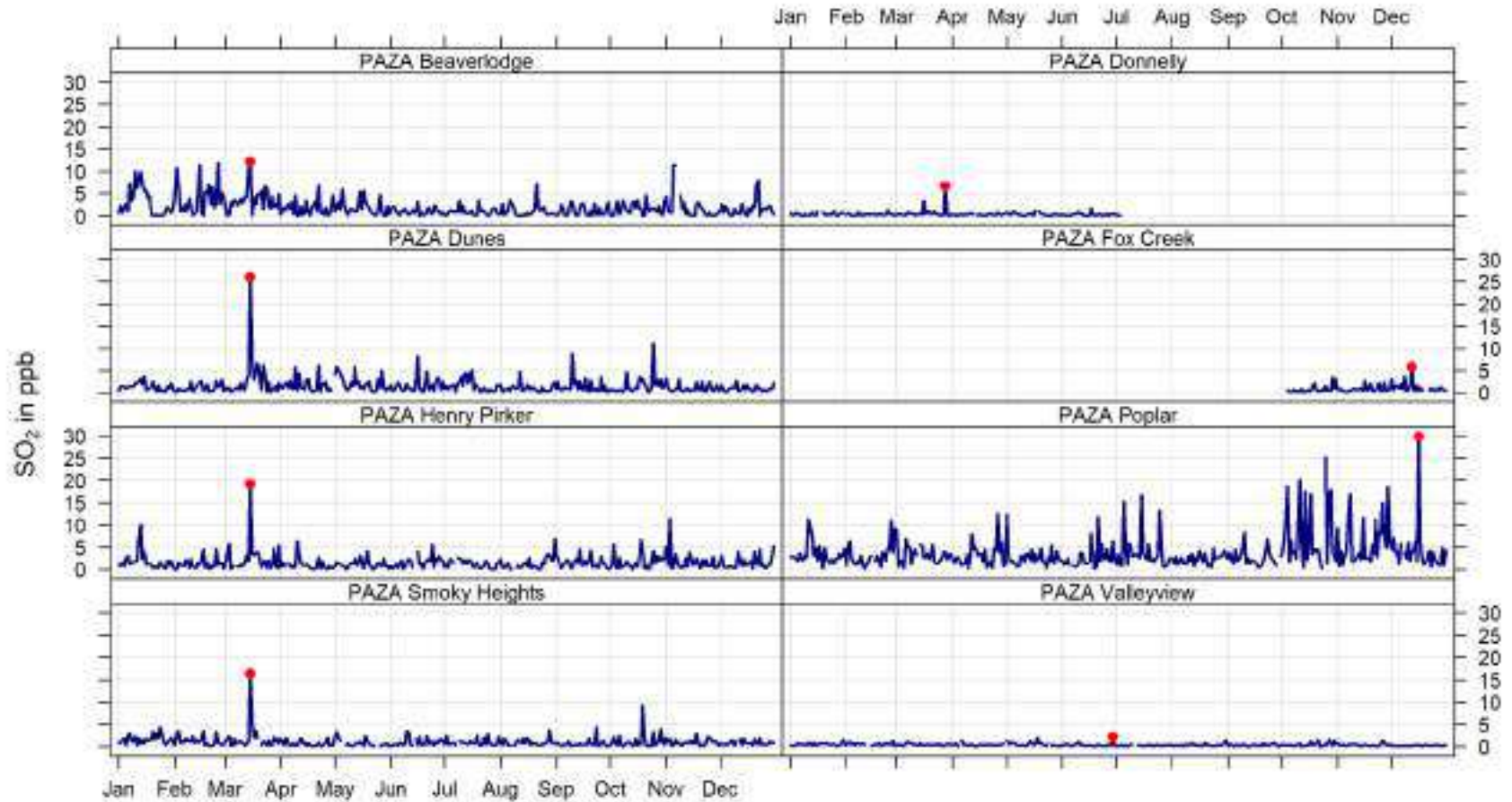
Note: Donnelly collected from Jan to July and Fox Creek collected from Oct to Dec, 2023

The regional profile for sulphur dioxide shows low concentrations measured over the 2023 monitoring period (annual averages typically less than 1 ppb).



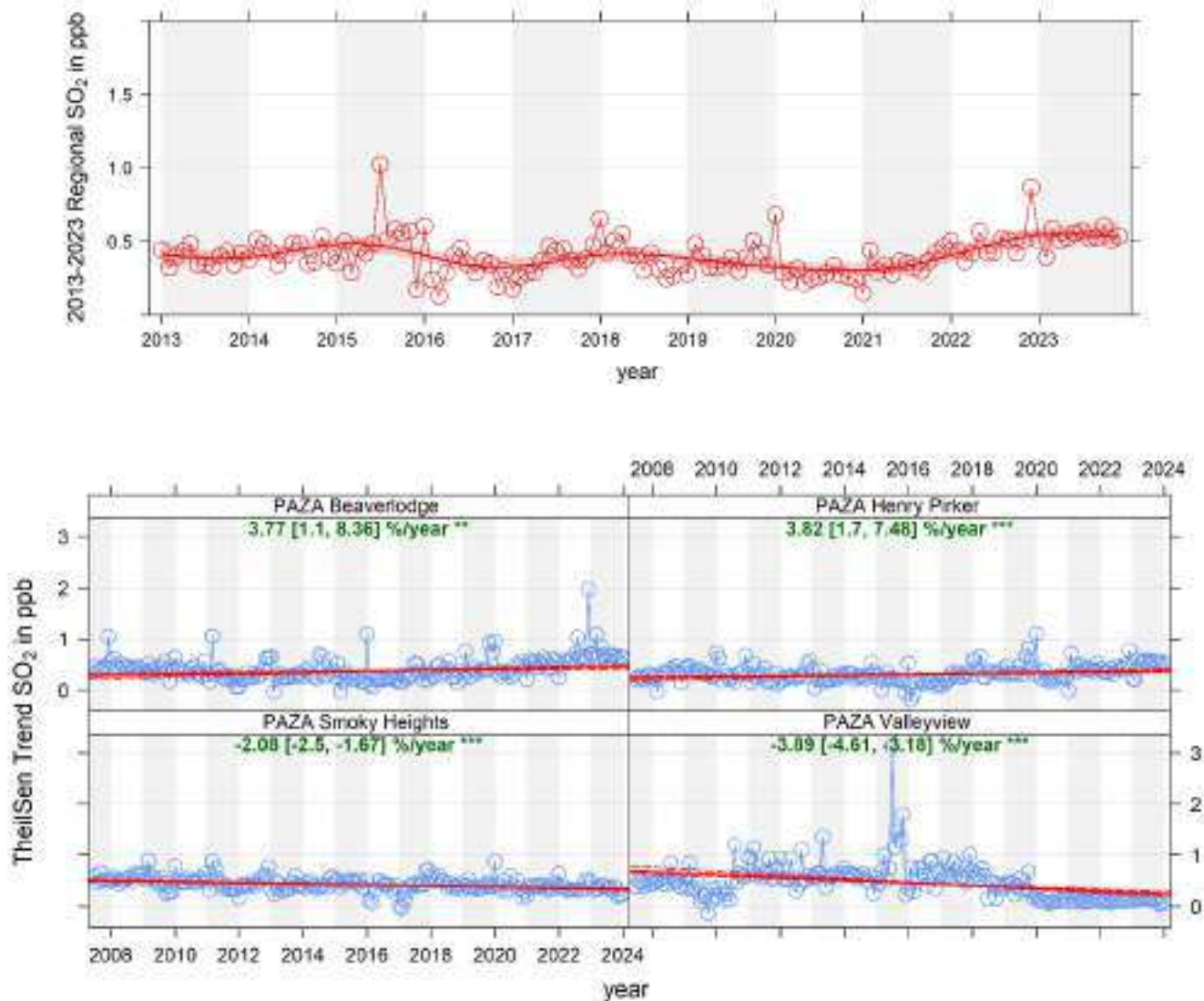
Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed similar profiles at Beaverlodge, Dunes, Henry Pirker and Smoky Heights, Donnelly and Fox Creek were only partial years of monitoring. Valleyview had the lowest concentration profile for the year (0.1ppb), with Poplar showing the highest concentration profile and highest annual average (1.2ppb).

2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association





For the historical trends we note Beaverlodge and Henry Pirker showing an increasing trend with Smoky Heights and Valleyview showing a decreasing trend (figures represent regional long term trend and station long term trend based on Theil-Sen test).

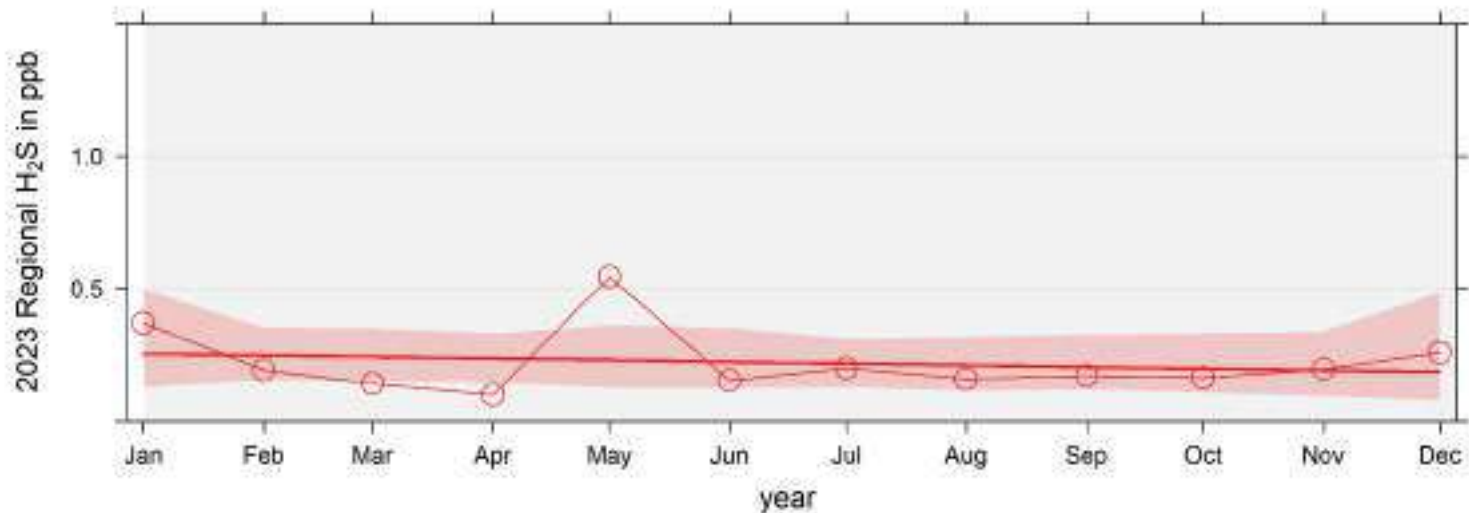


## 2.2 Hydrogen Sulphide (H<sub>2</sub>S) 2023 Summary

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Donnelly	Hydrogen Sulphide H <sub>2</sub> S measured in ppb		1.0	May 17	3.8	May 17 08:00		0	0	-	-
Fox Creek			0.5	Dec 12	1.6	Oct 30 22:00		0	0	-	-
Henry Pirker		0.3	2.1	Feb 03	8.2	Feb 03 12:00	99.4%	0	0	-	-
Valleyview		0.2	18.5	May 22	100.1	May 22 15:00	97.0%	12	2	-	-

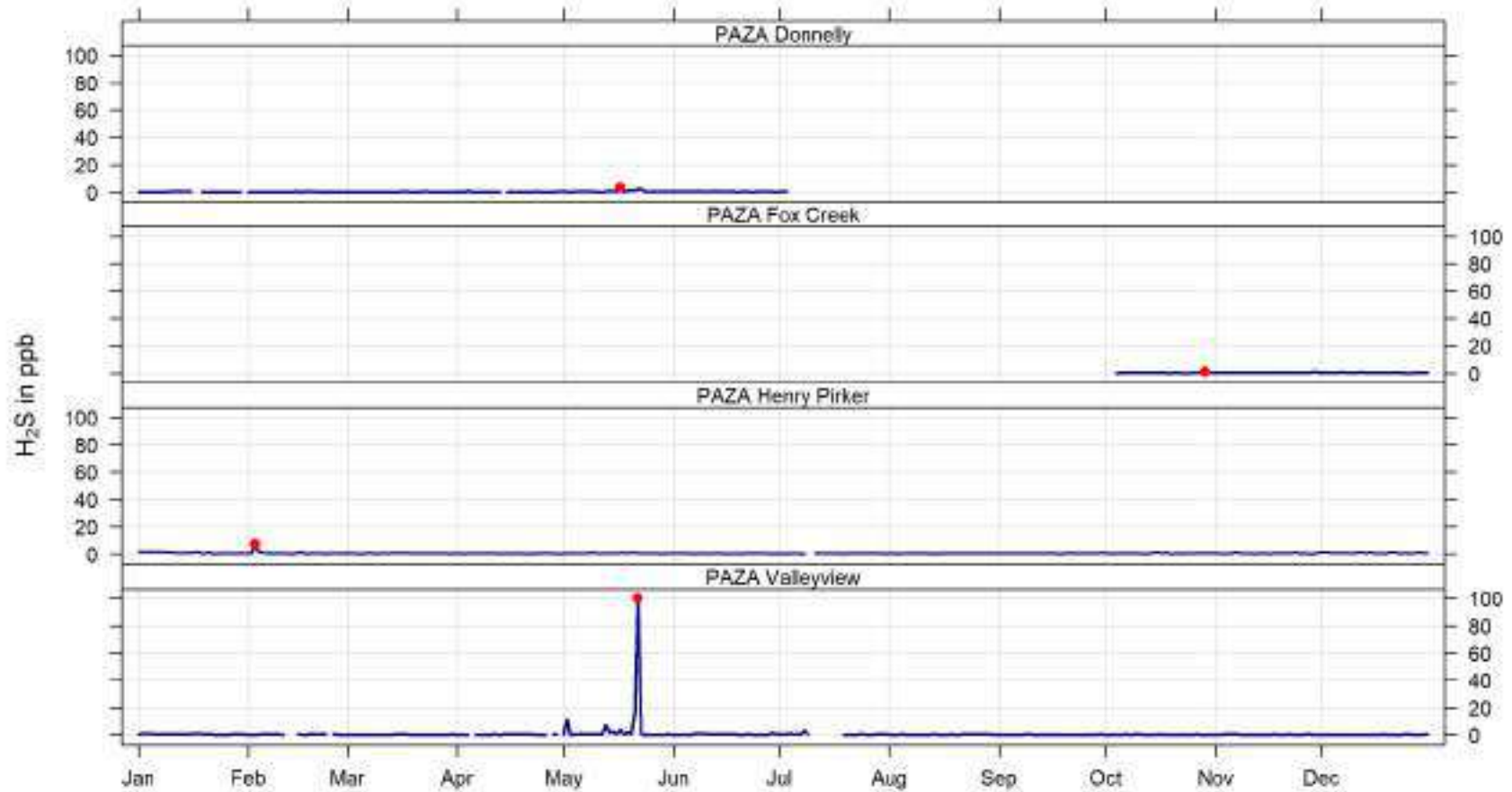
Note: Donnelly collected from Jan to July and Fox Creek collected from Oct to Dec, 2023

The regional profile for hydrogen sulphide shows low concentrations measured over the 2023 monitoring period (annual averages typically less than 0.5 ppb). Elevated readings in May 2023 as a result of releases during wildfire evacuations.

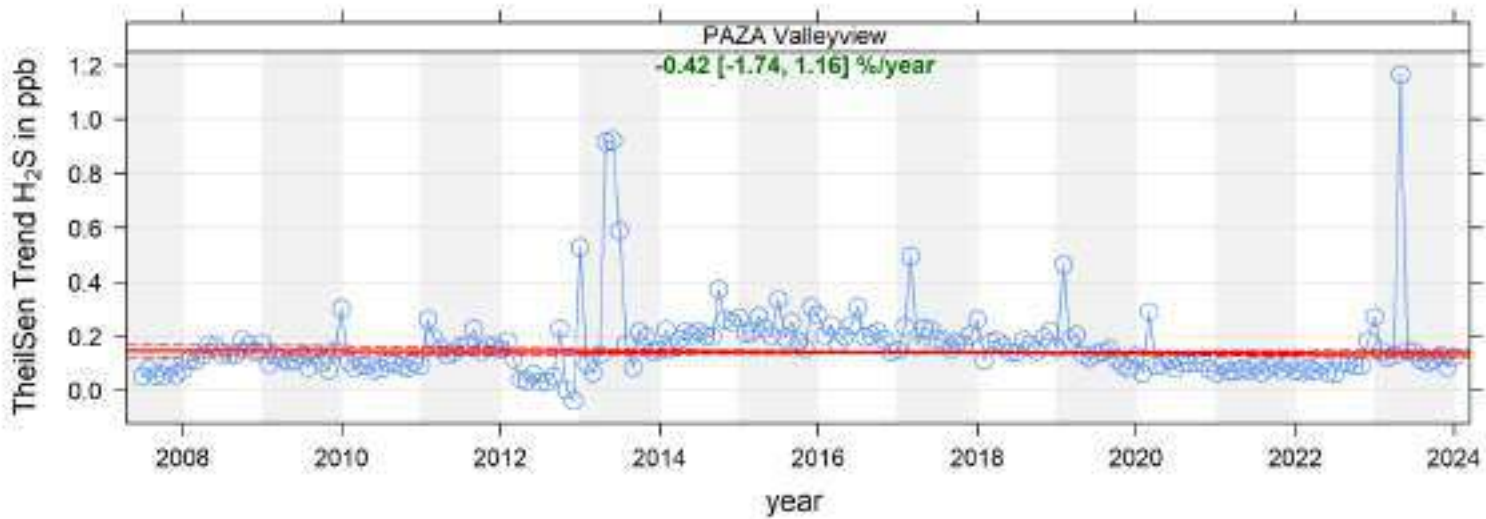
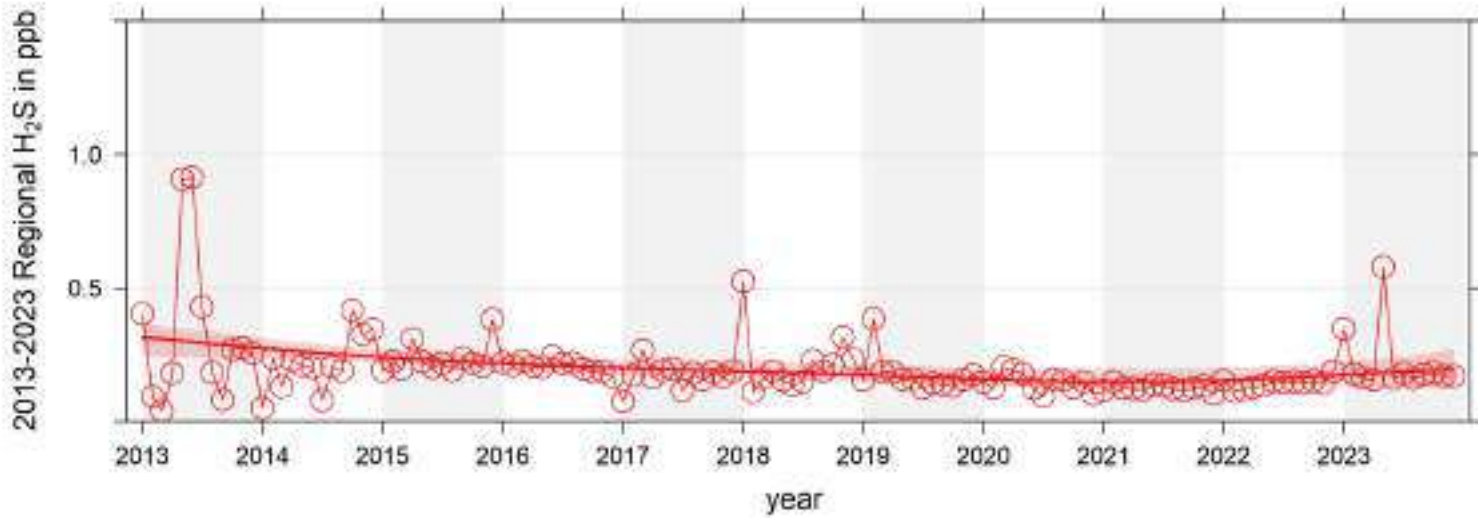


Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) were skewed due to the high readings during May evacuation period and emissions reached instrument limits at 100ppb. Overall maximums from all four sites were at different time periods, Donnelly and Fox Creek were only partial years of monitoring. Valleyview had the lowest annual average for the year (0.2ppb), with Henry Pirker showing the highest annual average slightly above (0.3ppb).

## 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



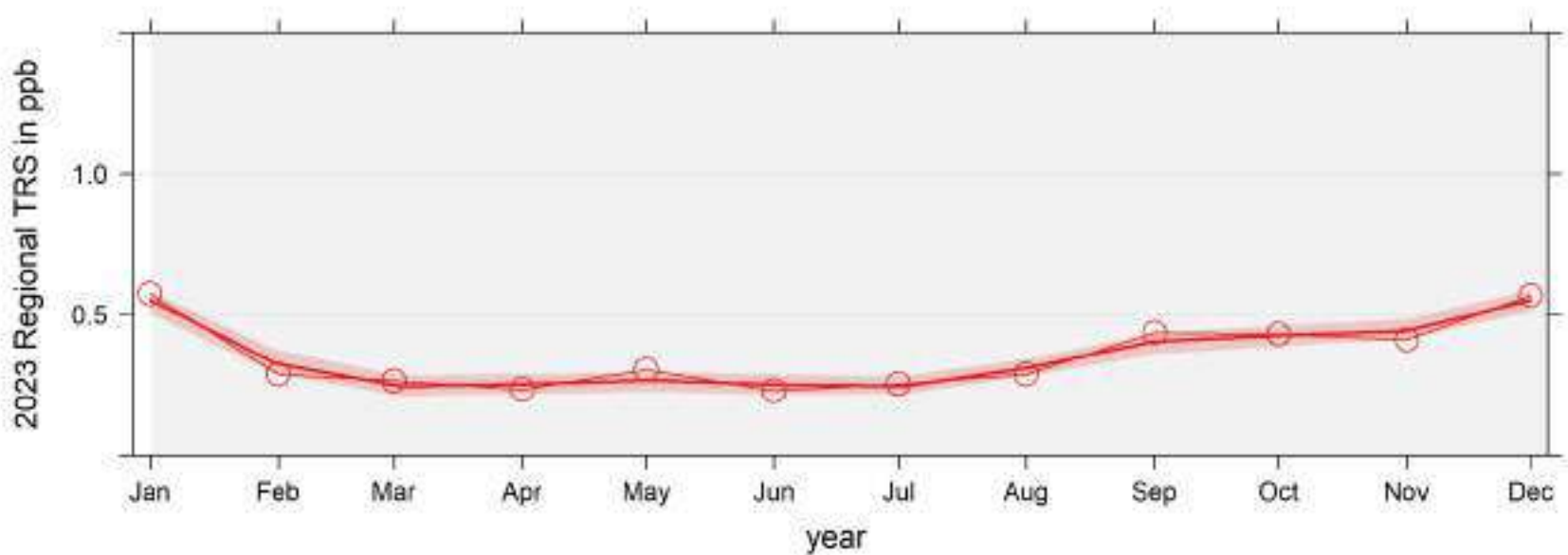
For the historical trends Valleyview has the longest monitoring period, showing no difference in statistical trends (based on Theil-Sen test), meaning the trend is neither increasing nor decreasing over the long-term monitoring period.



### 2.3 Total Reduced Sulphur (TRS) 2023 Summary

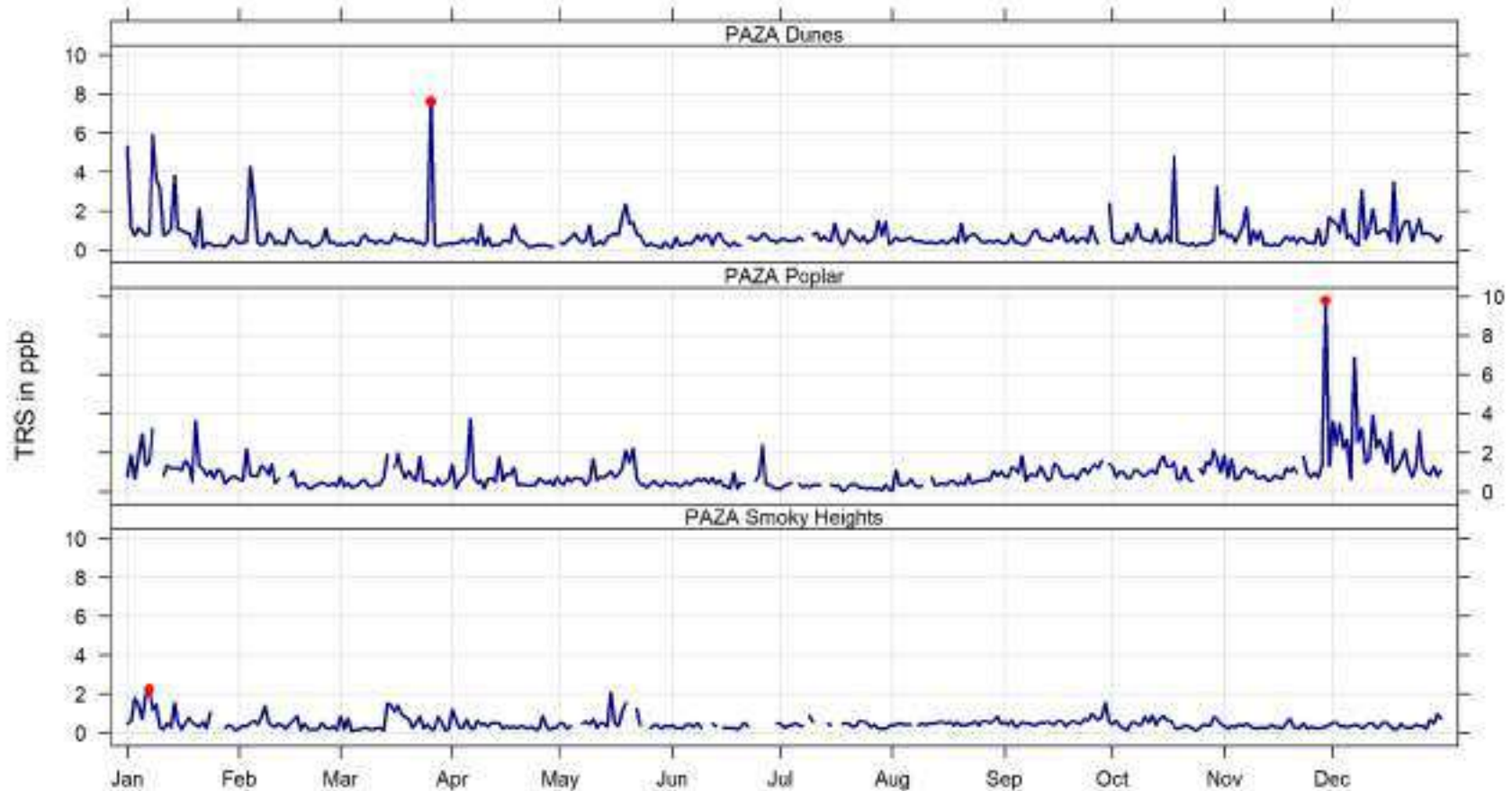
Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Dunes	Total Reduced Sulphur TRS measured in ppb	0.4	1.8	Jan 01	10.2	Mar 26 01:00	98.9%	-	-	-	-
Poplar		0.5	1.9	Apr 06	26.6	Apr 06 02:00	97.0%	-	-	-	-
Smoky Heights		0.2	1.0	Jan 03	3.4	Jan 07 19:00	95.3%	-	-	-	-

The regional profile for total reduced sulphur shows low concentrations measured over the 2023 monitoring period (annual averages less than 0.5 ppb). Readings were more elevated in January and then increasing from September to December 2023.



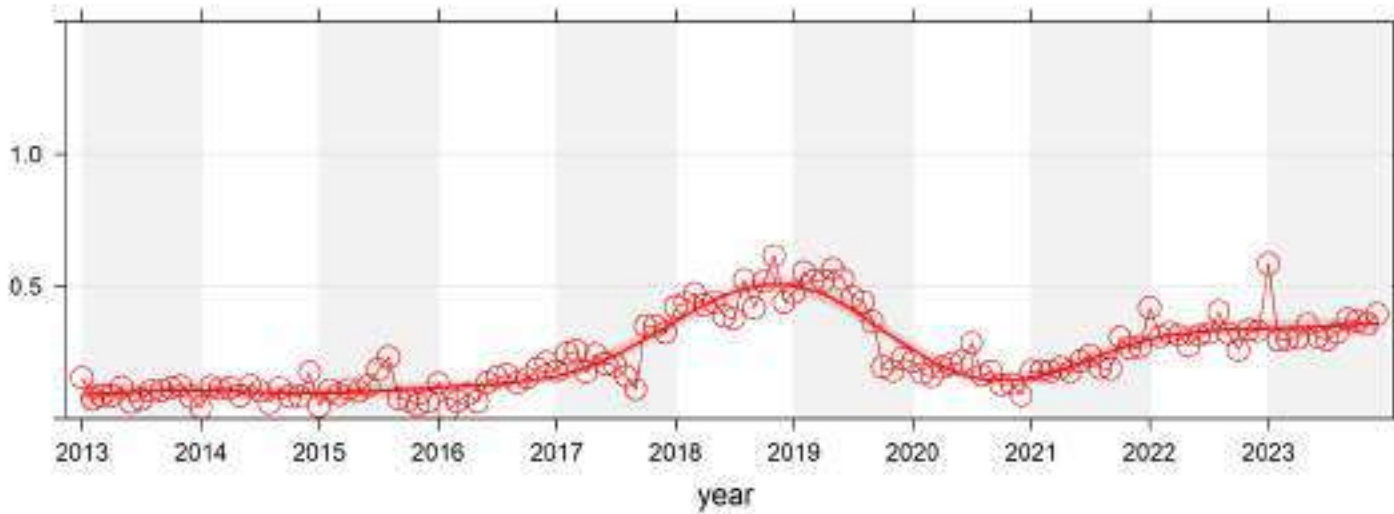
Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed the higher readings in the winter months. Overall maximums from all three sites were at different time periods. Smoky Heights had the lowest annual average for the year (0.2ppb), with Poplar showing the highest annual average (0.5ppb).

## 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



For the historical trends Smoky Heights has the longest monitoring period, showing a reduction in trends (at a probability  $<0.05$ , based on Theil-Sen test), meaning the trend is decreasing over the long-term monitoring period. Even with the most recent two years showing increases from previous years.

2013-2023 Regional TRS in ppb



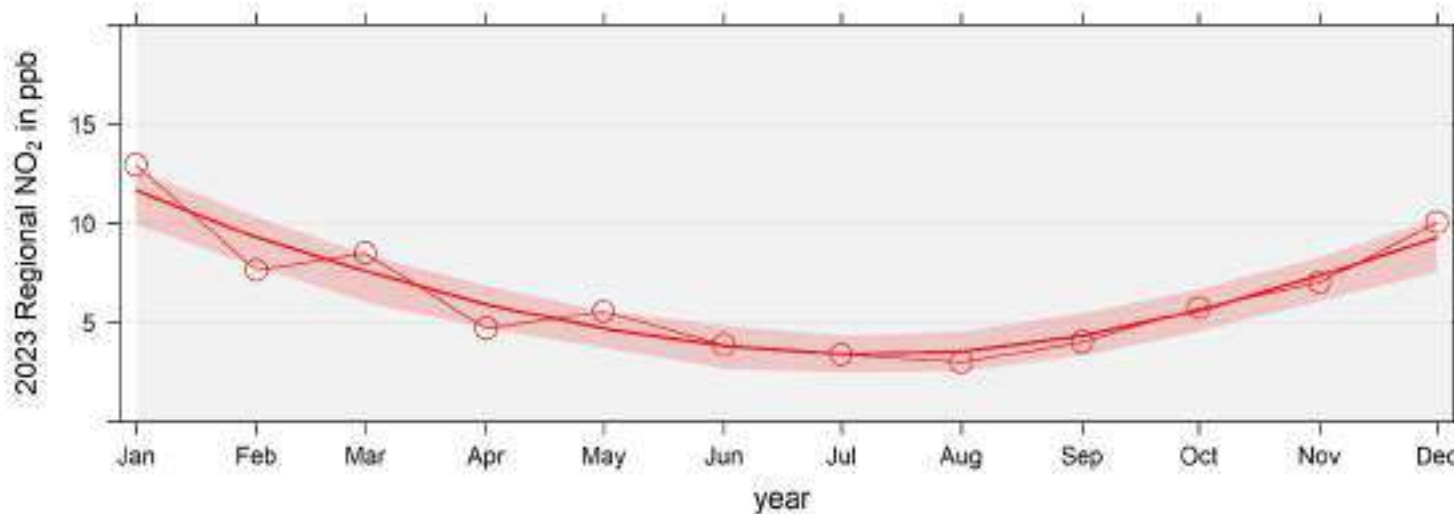
TheilSen Trend TRS in ppb



## 2.4 Nitrogen Dioxide (NO<sub>2</sub>) 2023 Summary

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual	
Beaverlodge	Nitric Oxide NO measured in ppb	1.1	23.0	Jan 18	56.6	Jan 06 12:00	99.6%	-	-	-	-	
Fox Creek			39.8	Dec 12	152.9	Dec 12 12:00		-	-	-	-	
Henry Pirker			7.9	90.2	Feb 03	231.5	Feb 03 11:00	99.4%	-	-	-	-
Milner			0.9	15.9	Jan 15	68.9	Mar 14 09:00	94.9%	-	-	-	-
Poplar			1.6	22.6	Jan 17	67.9	May 21 02:00	98.2%	-	-	-	-
Beaverlodge	Nitrogen Dioxide NO <sub>2</sub> measured in ppb	4.8	22.2	Jan 18	43.8	Mar 20 07:00	99.6%	0	-	-	0	
Fox Creek			25.3	Dec 12	45.0	Dec 12 12:00		0	-	-	0	
Henry Pirker			11.4	49.0	Feb 03	72.9	Feb 03 11:00	99.4%	0	-	-	0
Milner			2.4	16.7	Jan 17	31.7	Feb 26 10:00	94.9%	0	-	-	0
Poplar			6.1	22.0	Jan 06	35.0	Mar 21 07:00	98.2%	0	-	-	0
Beaverlodge	Oxides of Nitrogen NO <sub>x</sub> measured in ppb	5.9	45.2	Jan 18	83.4	Jan 06 12:00	99.6%	-	-	-	-	
Fox Creek			65.4	Dec 12	197.3	Dec 12 12:00		-	-	-	-	
Henry Pirker			19.4	139.6	Feb 03	304.8	Feb 03 11:00	99.4%	-	-	-	-
Milner			3.6	31.7	Jan 17	98.9	Mar 14 09:00	94.9%	-	-	-	-
Poplar			7.8	44.0	Jan 17	91.0	May 21 02:00	98.2%	-	-	-	-

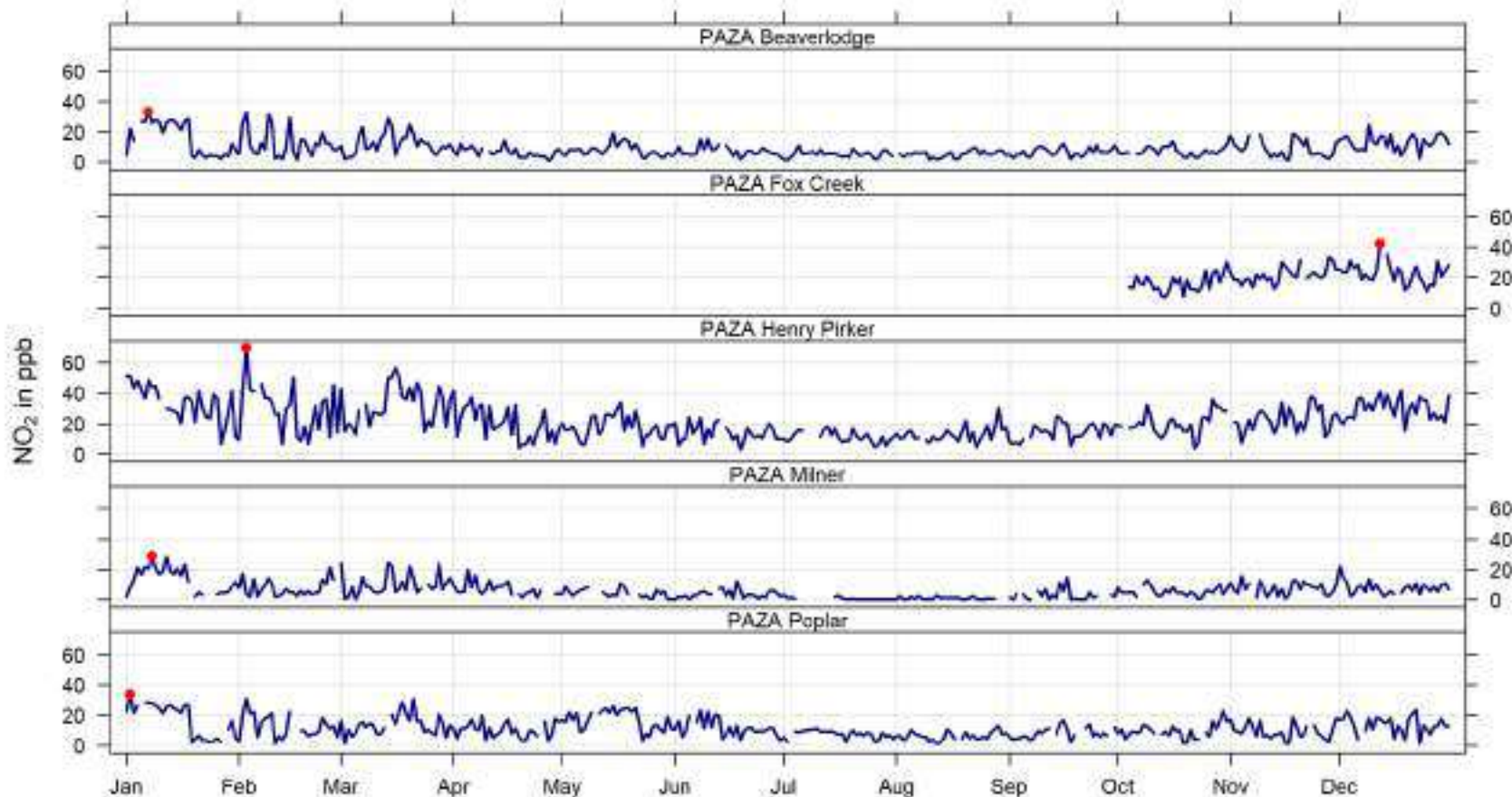
The regional profile for nitrogen species shows low concentration during warm months and higher concentrations during periods of winter months. This is due to higher combustion emissions during the winter months associated with low ceilings.



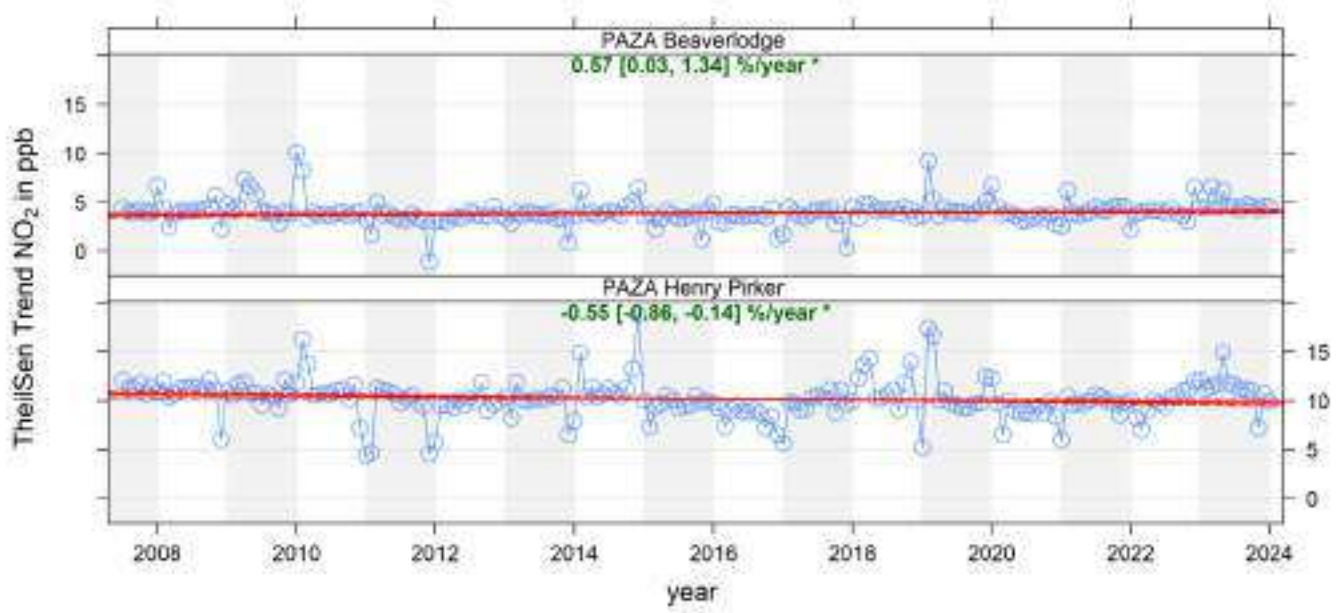
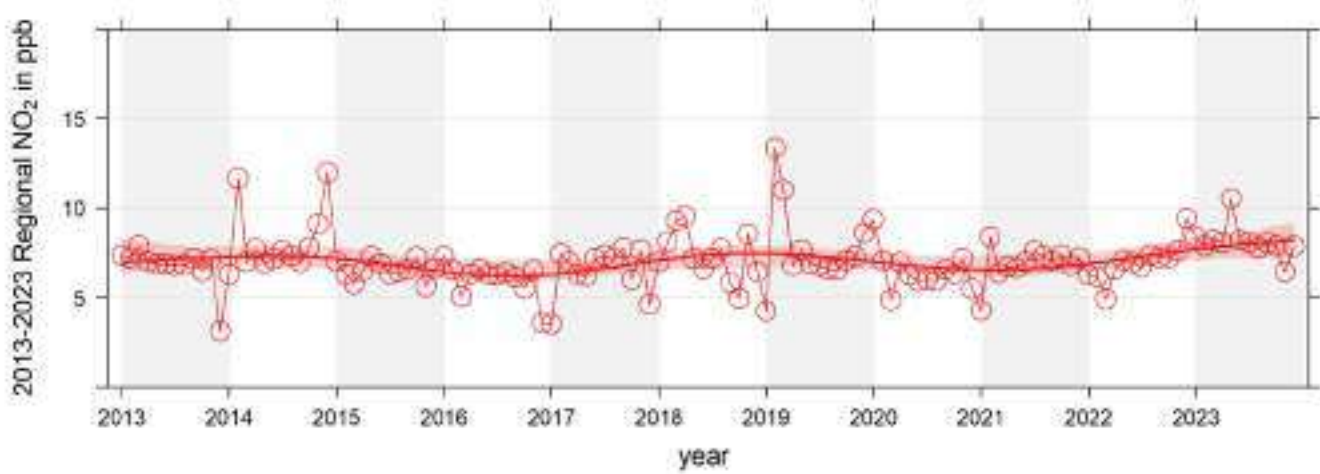


Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed the higher readings in the winter months. Overall maximums from all sites (except Fox Creek) were in the January and February period, Fox Creek only started monitoring in October 2023. Milner had the lowest annual average for the year (2.4ppb, NO<sub>2</sub>), with Henry Pirker showing the highest annual average (11.4ppb, NO<sub>2</sub>).

### 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



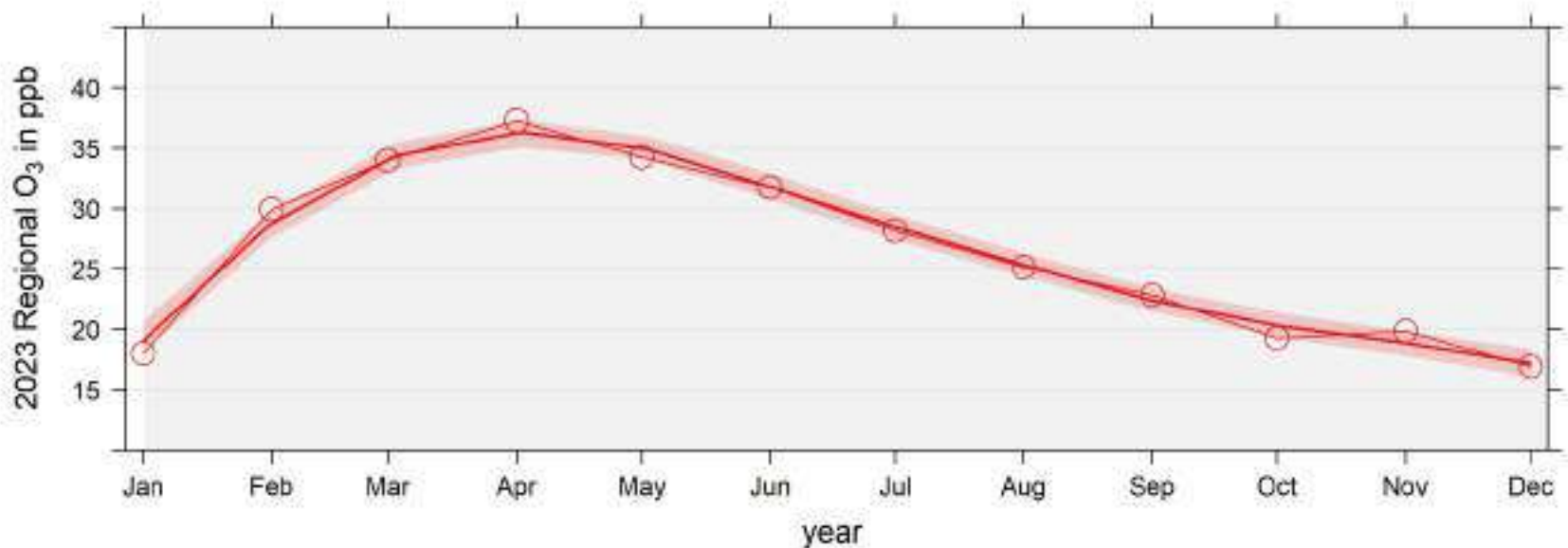
For the historical trends Beaverlodge and Henry Pirker have the longest monitoring periods, where Beaverlodge shows a slight increase over time (at a probability <0.05, based on Theil-Sen test) while Henry Pirker shows a slight decrease over time (at a probability <0.05, based on Theil-Sen test). The overall regional trend is showing the averages ranging between the 5 to 10 ppb over the years of monitoring.



## 2.5 Ozone (O<sub>3</sub>) 2023 Summary

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual	
Beaverlodge	Ozone O <sub>3</sub> measured in ppb	29.1	52.5	Apr 28	80.7	May 20 16:00	99.2%	2	-	-	-	
Fox Creek			31.5	Dec 13	45.0	Oct 09 16:00		0	-	-	-	
Henry Pirker			23.5	53.7	Jun 03	86.8	May 15 18:00	100.0%	4	-	-	-
Poplar			27.1	54.3	May 29	89.0	May 20 13:00	99.0%	7	-	-	-

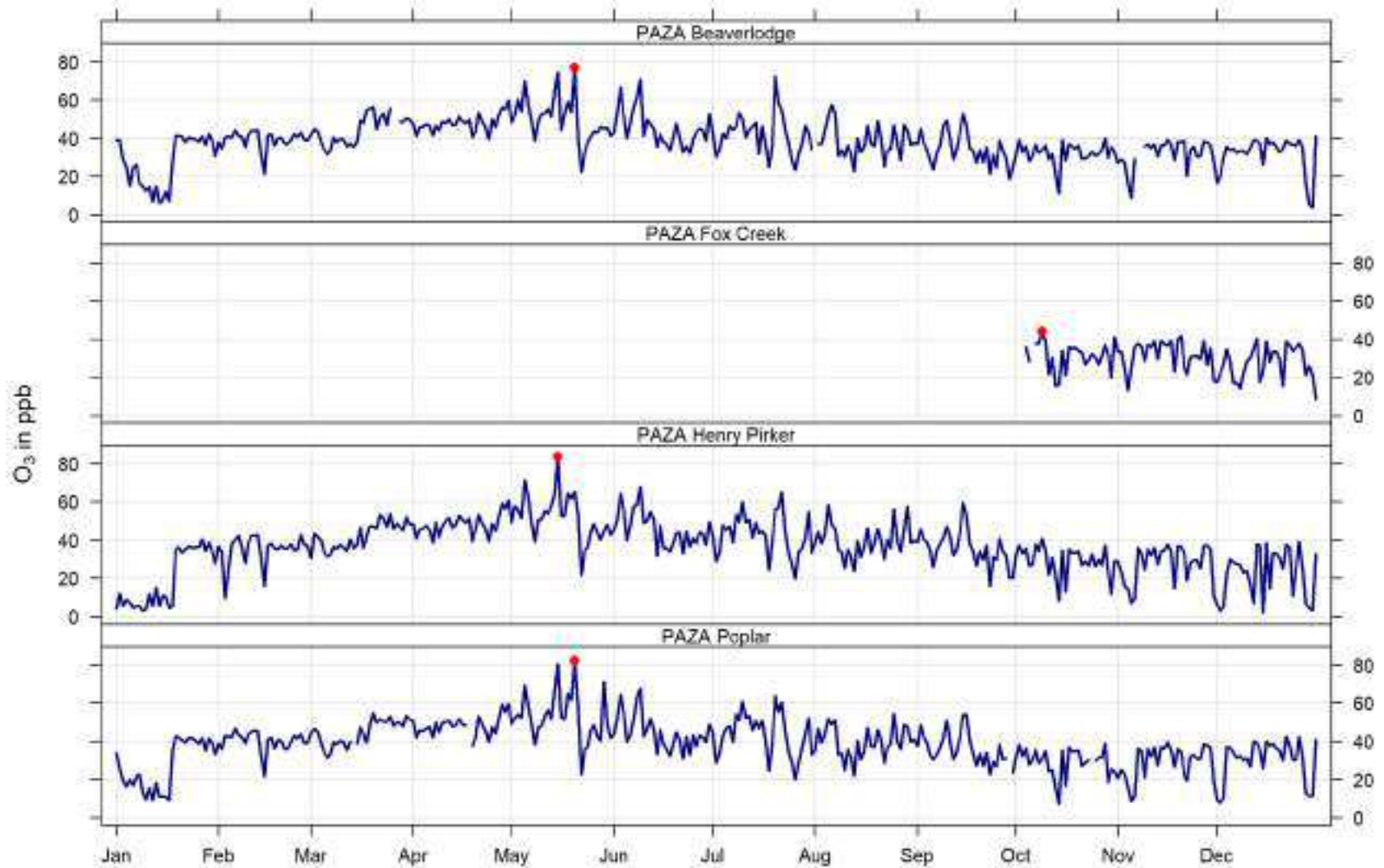
The regional profile for ozone shows peak concentration during spring (April) which is consistent with ozone patterns, year over year, peak occurs in the spring and lowest in the winter.



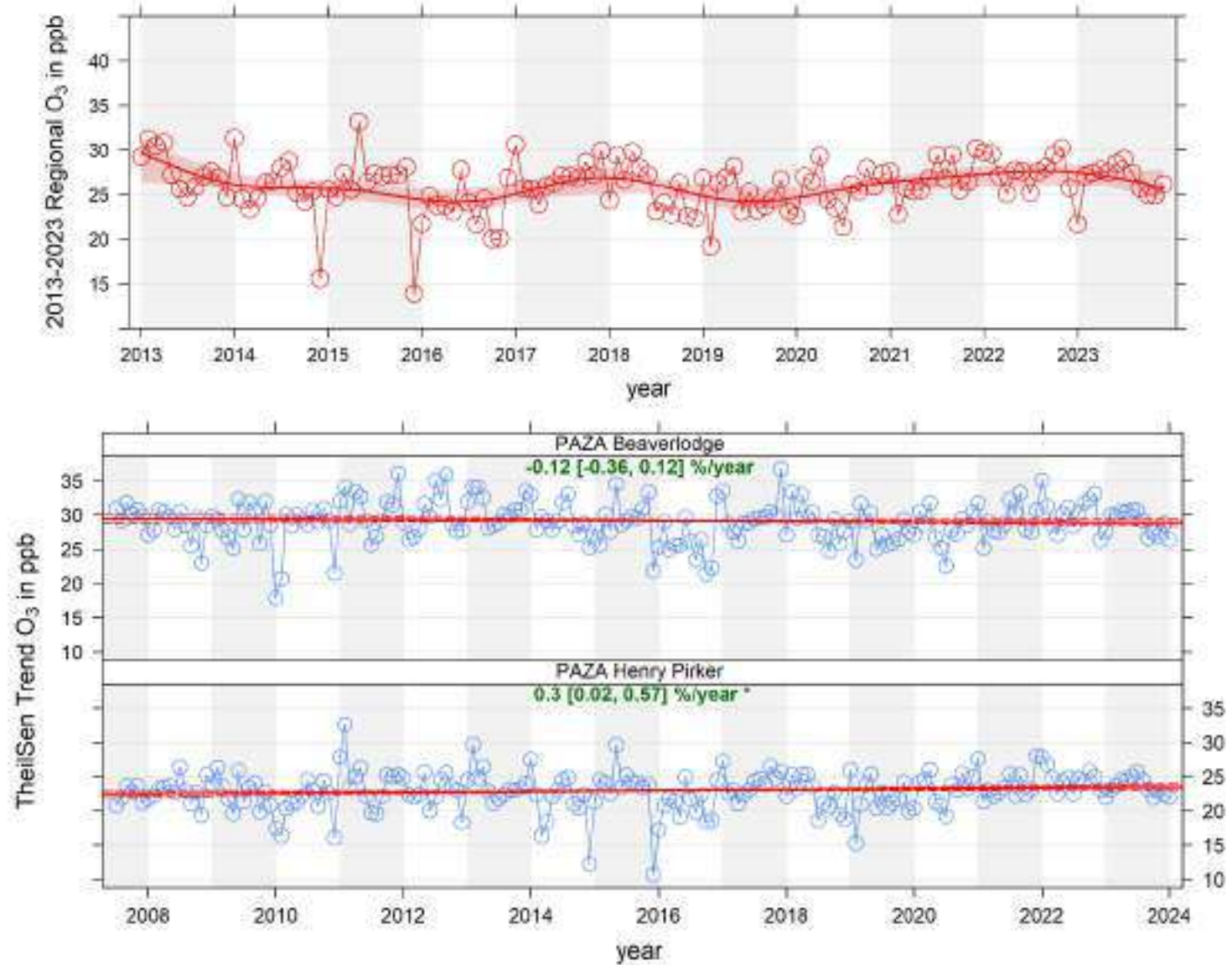
Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed similar profiles at Beaverlodge, Henry Pirker and Poplar, while Fox Creek was only for partial year of monitoring. All three stations for the year showed peak occurring during high wildfire times in May. This is a common

occurrence with ozone being driven higher due to wildfire smoke in a region. Henry Pirker had the lowest concentration profile for the year (23.5ppb), with Beaverlodge showing the highest concentration profile with annual average of 29.1ppb.

### 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



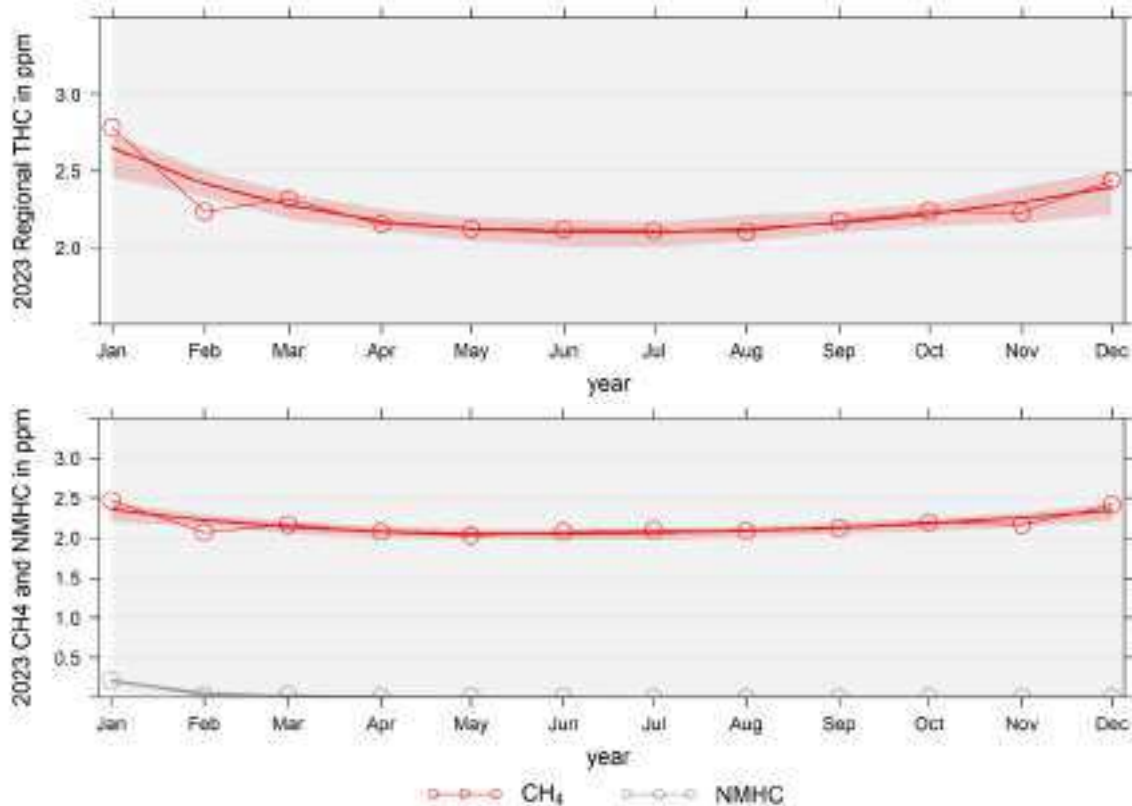
For the historical trends we note Beaverlodge with no trend (as per Theil-Sen test) and Henry Pirker showing a slight increasing trend at a probability <0.05 (based on Theil-Sen test). The overall regional trend is showing the averages under 30 ppb over the years of monitoring.



## 2.6 Total Hydrocarbons (THC / CH<sub>4</sub> / NMHC) 2023 Summary

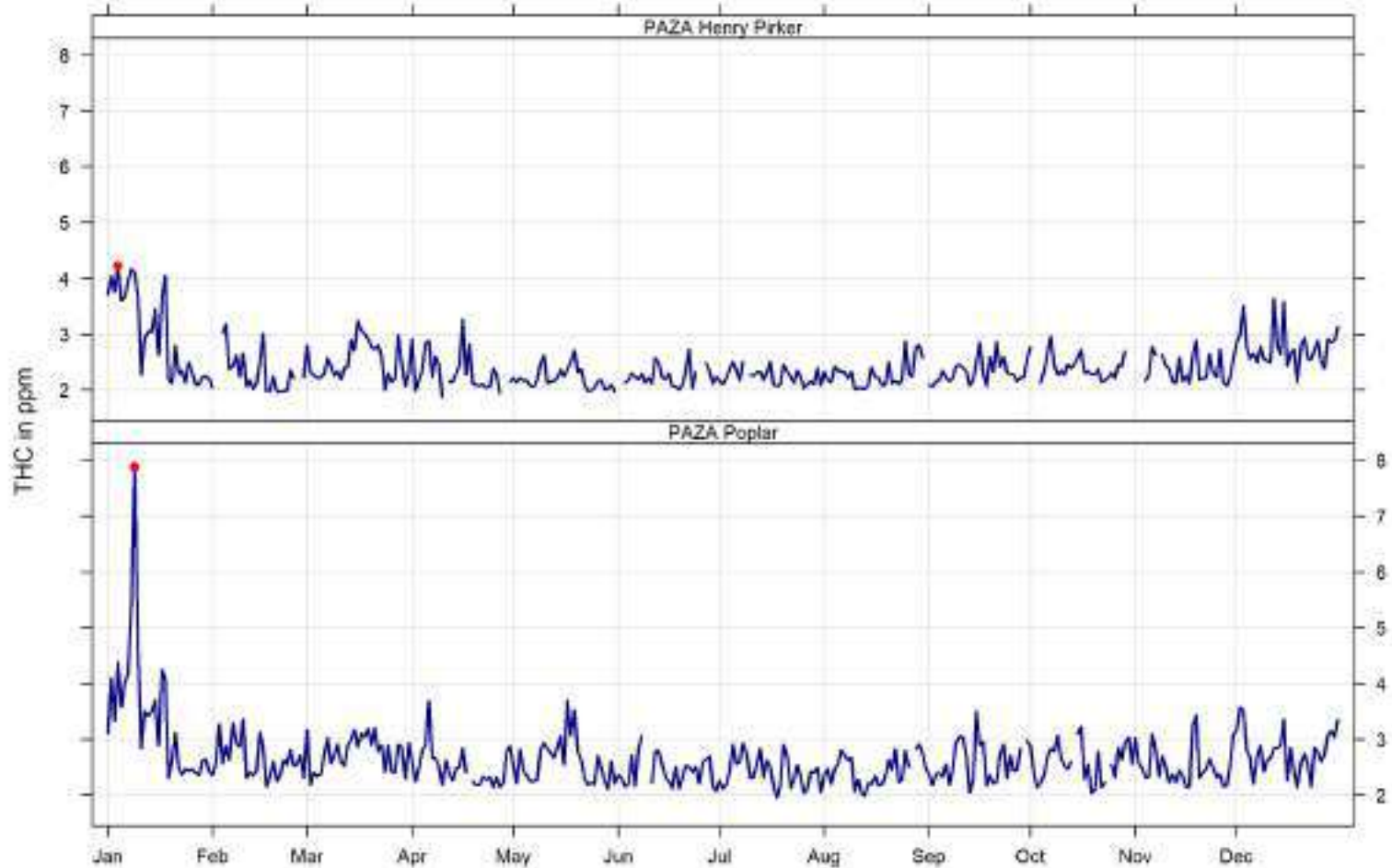
Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Henry Pirker	Total Hydrocarbons	2.20	3.6	Jan 09	4.6	Jan 04 07:00	96.4%	-	-	-	-
Poplar	THC measured in ppm	2.31	4.2	Jan 09	10.2	Apr 06 02:00	98.3%	-	-	-	-
Henry Pirker	Methane CH <sub>4</sub> measured in ppm	2.17	3.0	Jan 08	4.0	Apr 16 06:00	96.4%	-	-	-	-
Henry Pirker	Non Methane Hydrocarbons NMHC measured in ppm	0.03	0.7	Jan 09	1.0	Jan 18 02:00	96.4%	-	-	-	-

The regional profile for Total Hydrocarbons (with Methane and Non-Methane Hydrocarbons) show low concentration during warm months and higher concentrations during winter months.

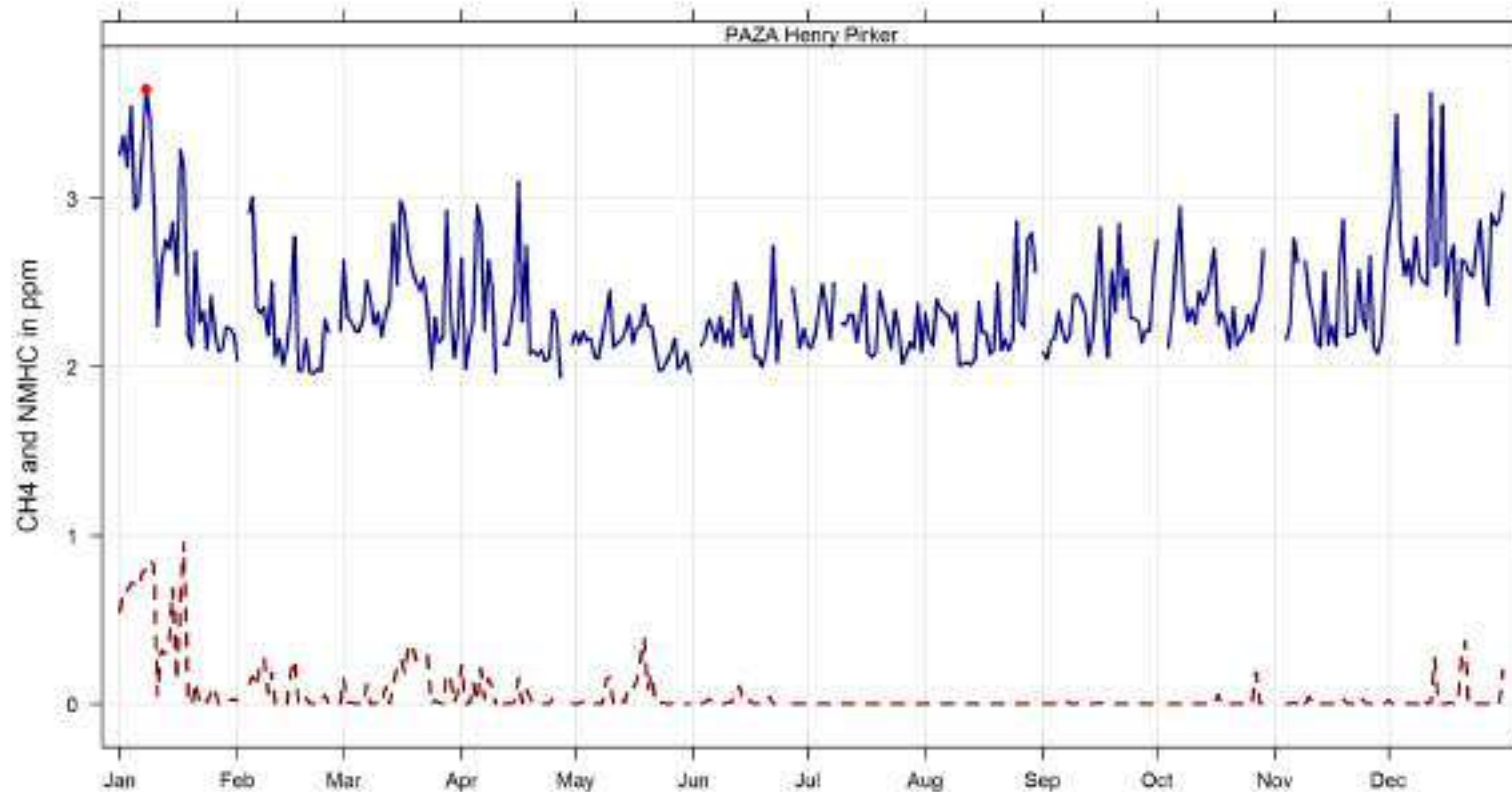


Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed the higher readings in the winter months. With the overall maximums from both sites showing the January timeframe. Henry Pirker had the lowest annual average for THC at 2.20ppm with Poplar showing the highest annual average of 2.31ppm. The Methane and Non-Methane Hydrocarbons were only collected at Henry Pirker during 2023, both showing the elevated readings during the winter months compared to summer months.

2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association

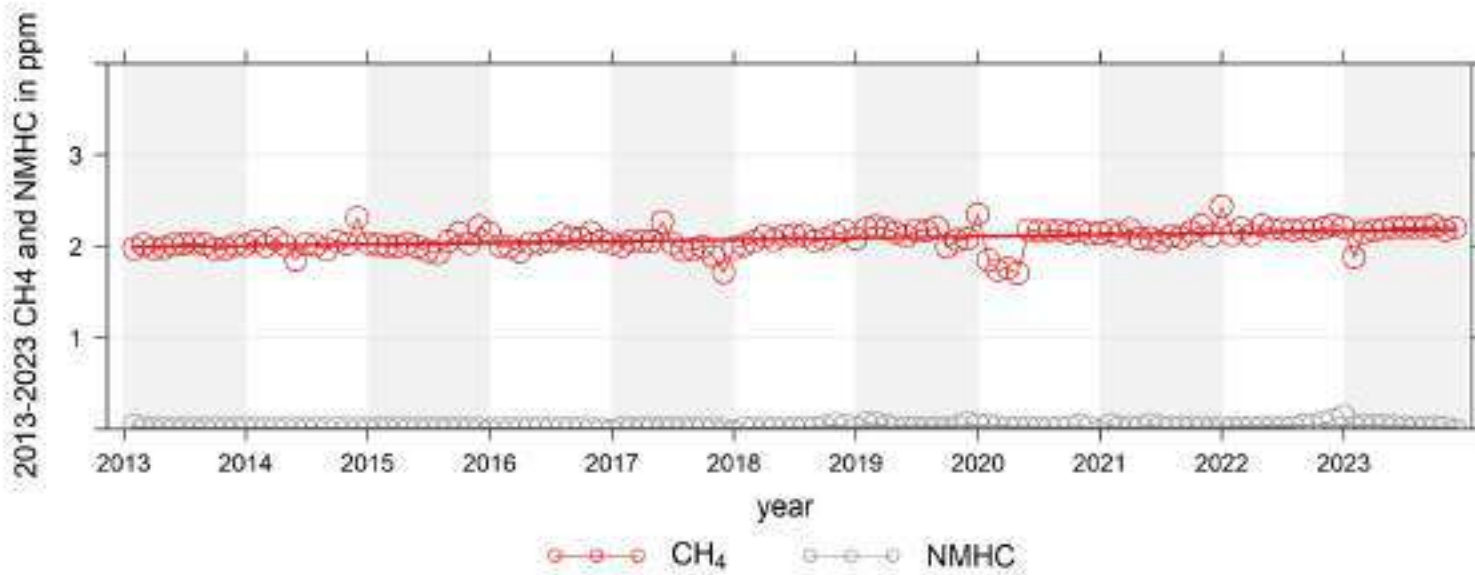
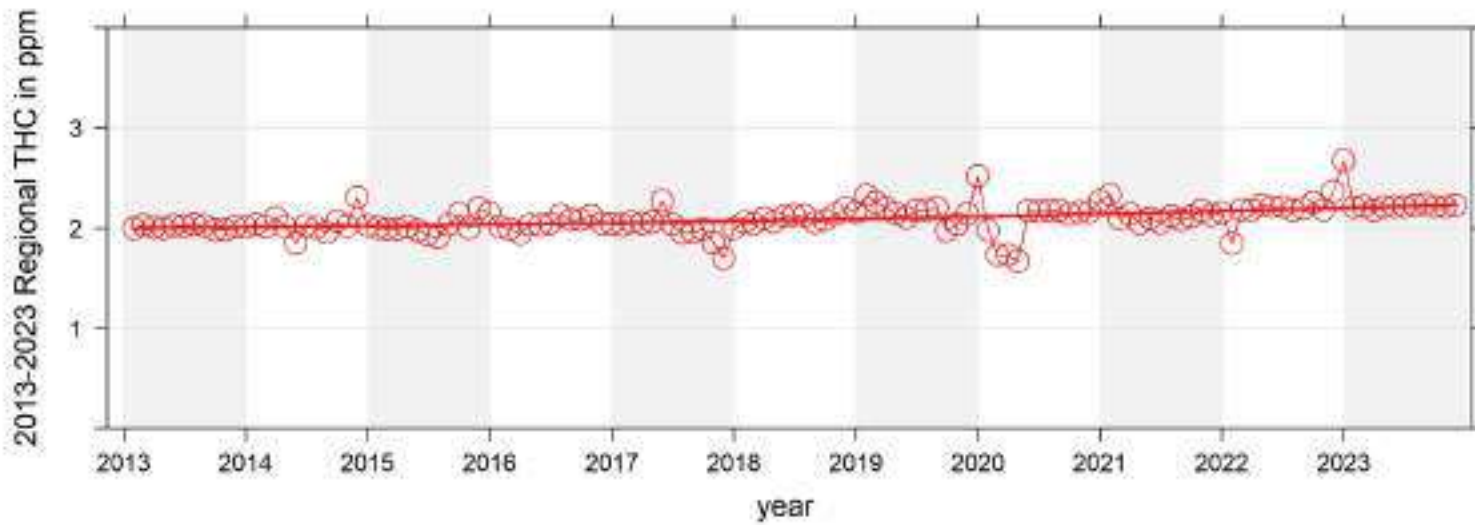


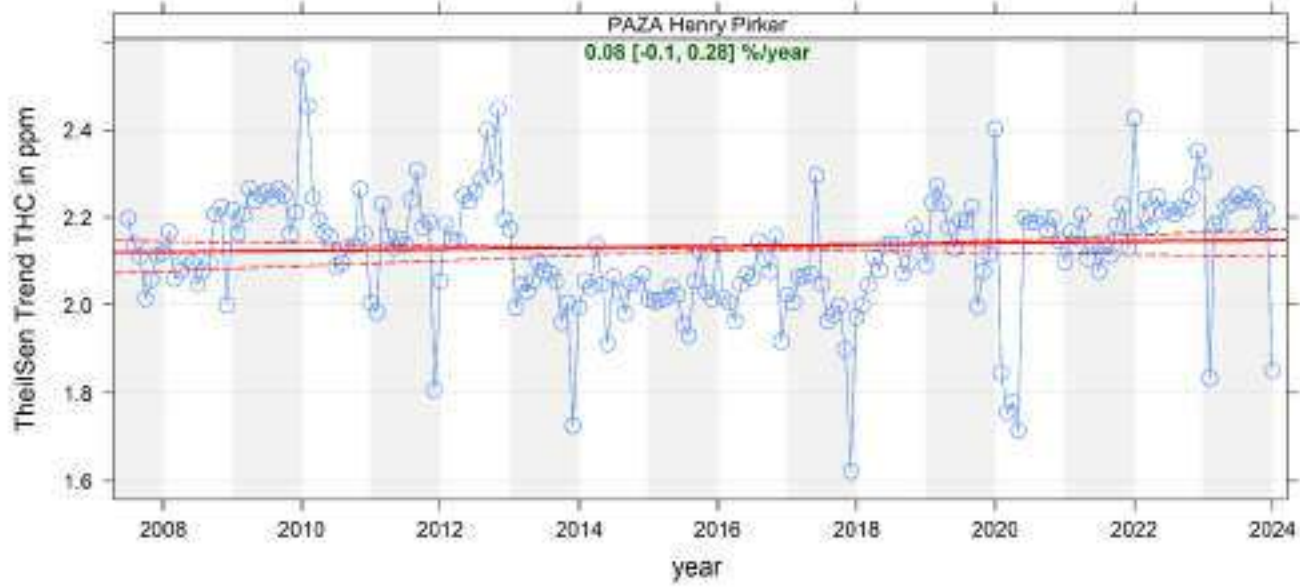
## 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



For the historical trends Henry Pirker has the longest monitoring period, showing an increase in trends for CH<sub>4</sub> and NMHC (at a probability <0.01, based on Theil-Sen test), meaning the trend is increasing over the long-term monitoring period. The THC however does not show an increase or decrease over time rather there is no trend for THC.





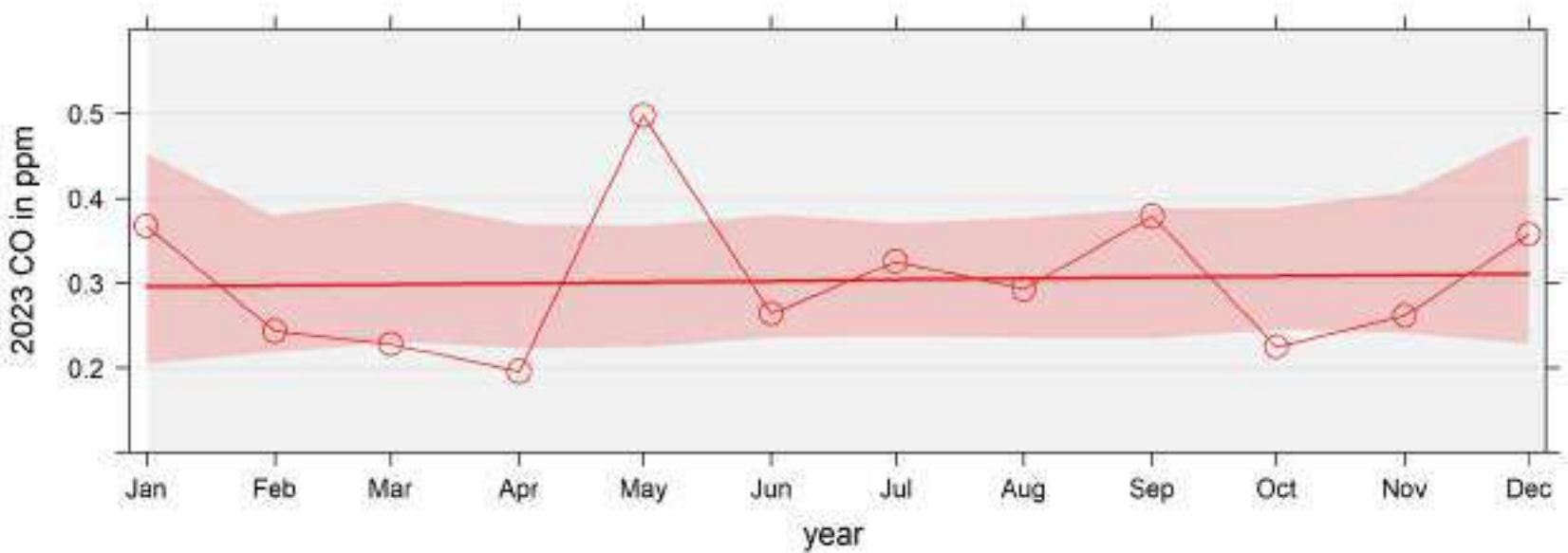




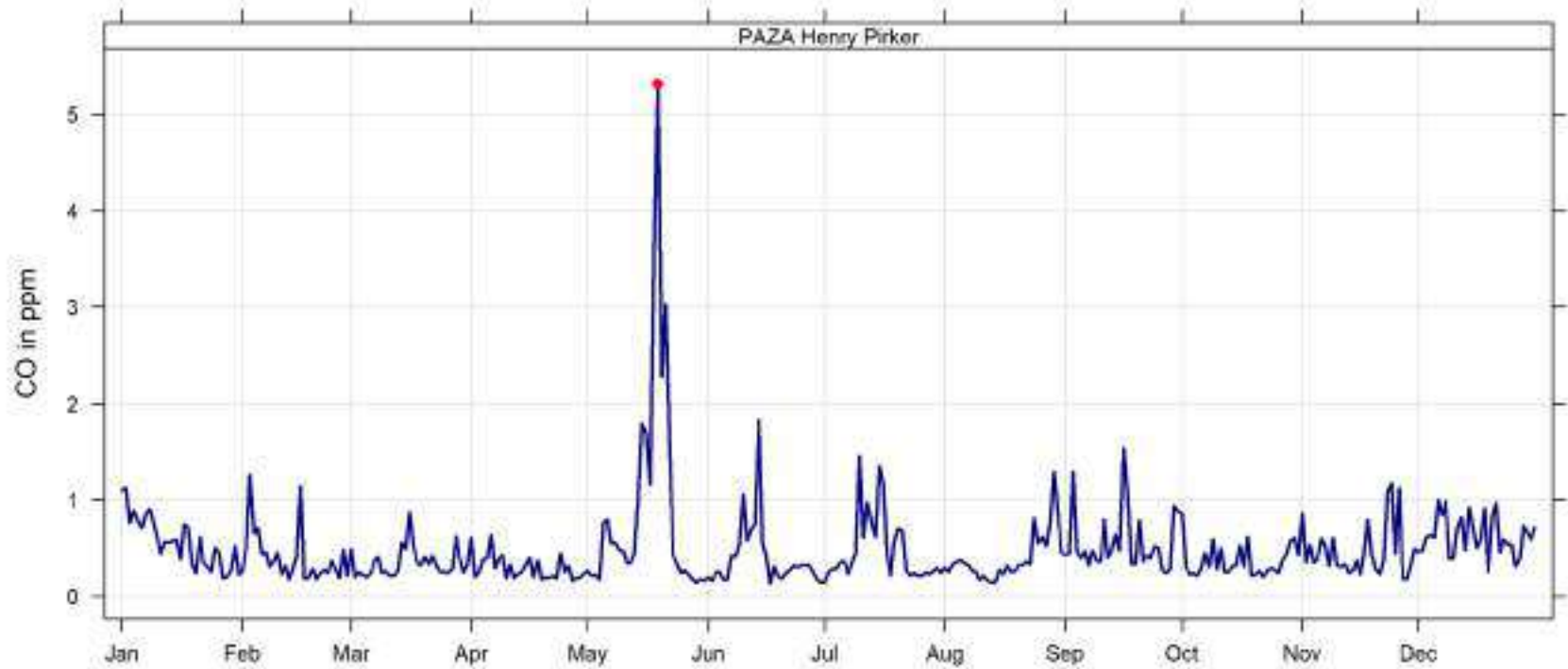
## 2.7 Carbon Monoxide (CO) 2023 Summary

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Henry Pirker	Carbon Monoxide CO measured in ppm	0.3	2.1	May 18	7.3	May 19 19:00	100.0%	0	-	-	-

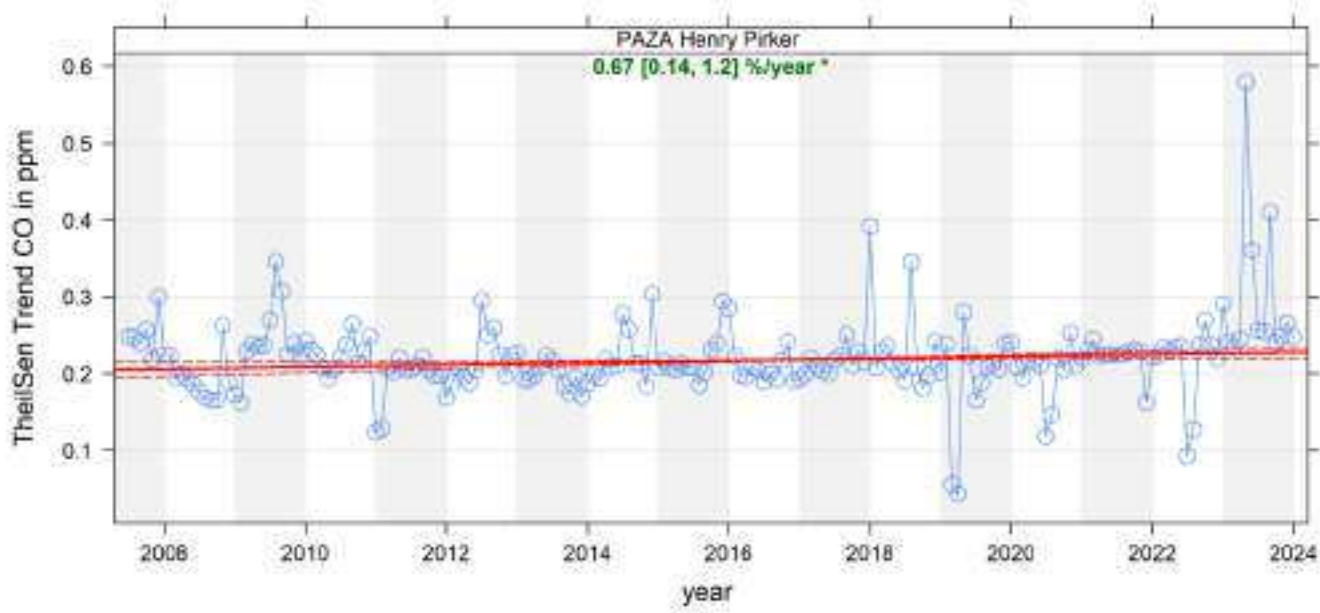
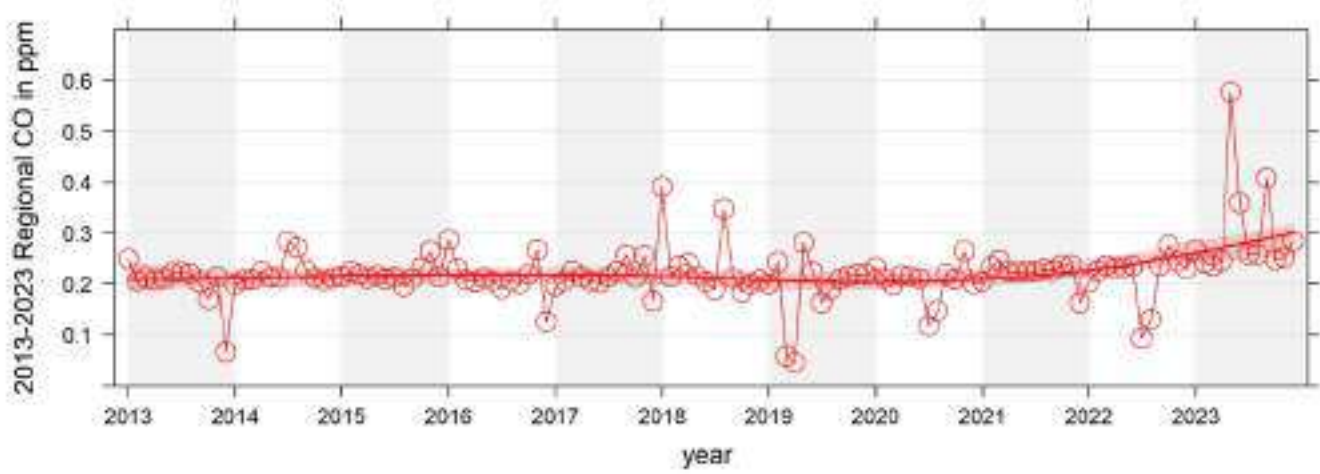
The regional profile for carbon monoxide shows elevated readings during periods of wildfires (May 2023) measured over the 2023 monitoring period (annual averages typically less than 0.5 ppm).



## 2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



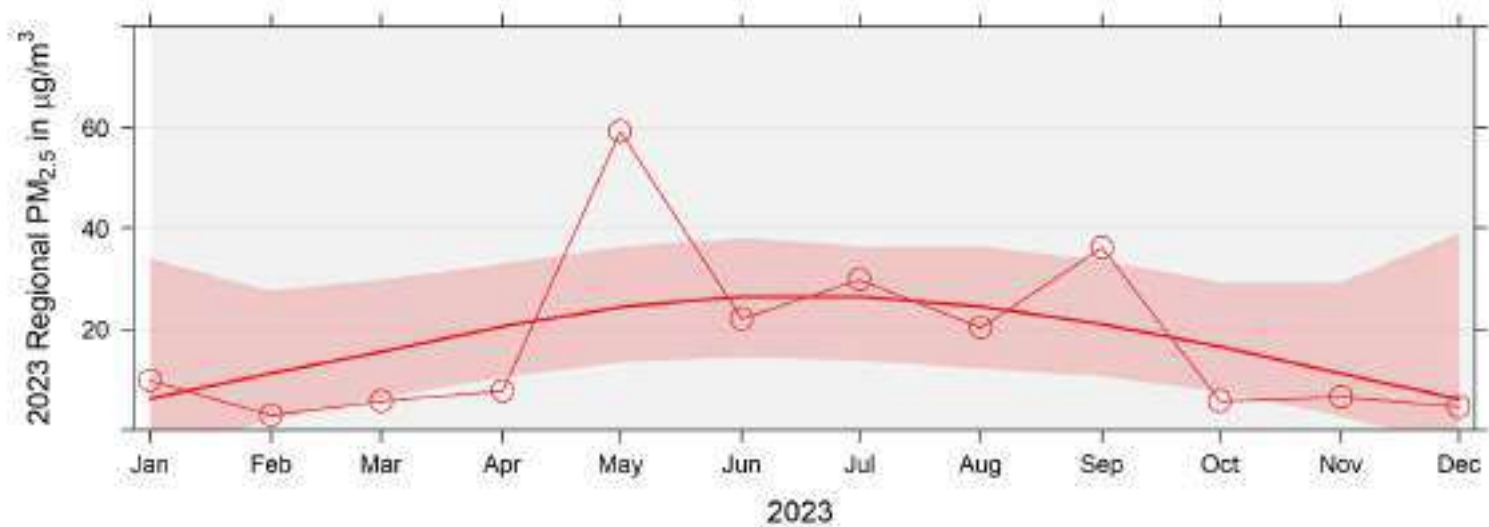
Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed the higher readings in during the wildfire period in 2023. The smoothed regional trend shows a slight increase in concentration over the last two years, this is confirmed with the trend (as per Theil-Sen test), showing a slight increase at a  $p > 0.05$ .



## 2.8 Particulate Matter (PM<sub>2.5</sub>) 2023 Summary (T640 corrected)

Station	Parameter	Annual Average	Maximum Values				Operational Time (%)	Readings above AAAQO & AAAQG			
			24-hr	Date	1-hr	Date		1-hr	24-hr	30-d	Annual
Beaverlodge	Particulate Matter PM <sub>2.5</sub> measured in µg/m <sup>3</sup>	17.8	343.0	Sep 16	993.0	May 19 19:00	97.5%	377	48	-	-
Dunes		15.6	348.9	May 19	997.0	May 19 20:00	99.1%	321	44	-	-
Fox Creek		32.5	Oct 10	74.7	Oct 10 14:00	25.0%	0	1	-	-	
Henry Pirker		23.3	465.6	May 18	1139.4	May 19 19:00	100.0%	477	64	-	-
Milner		12.6	149.1	Sep 03	344.8	Apr 18 06:00	95.7%	243	40	-	-
Poplar		14.5	286.0	Sep 16	448.7	May 19 19:00	94.6%	271	42	-	-
Smoky Heights		17.9	368.6	May 19	990.0	May 19 19:00	97.5%	359	49	-	-

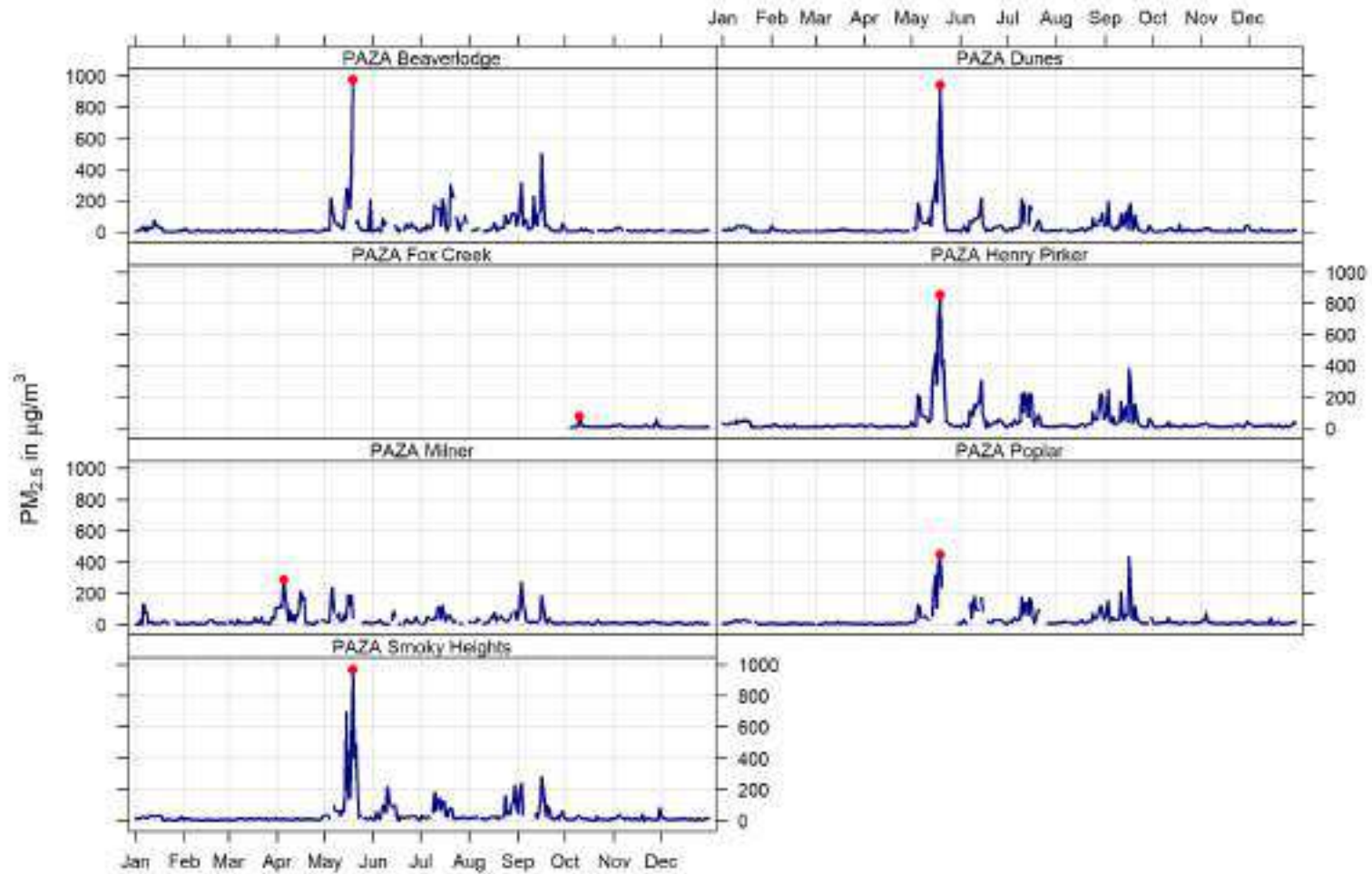
The regional profile for particulate matter shows higher concentrations measured over the 2023 monitoring period, primarily do to the large wildfire year. Due to the high wildfire incidents in 2023, there were 2068 hourly readings above AAAQG and 293, 24-hr readings above AAAQO.



Overall maximum trends for 2023 (daily 95<sup>th</sup> percentiles) showed elevated readings during the spring through fall periods, correlated to the wildfire occurrences in 2023. Nearly every station showed the maximum concentrations during May 2023, the peak of the wildfires. Miner had

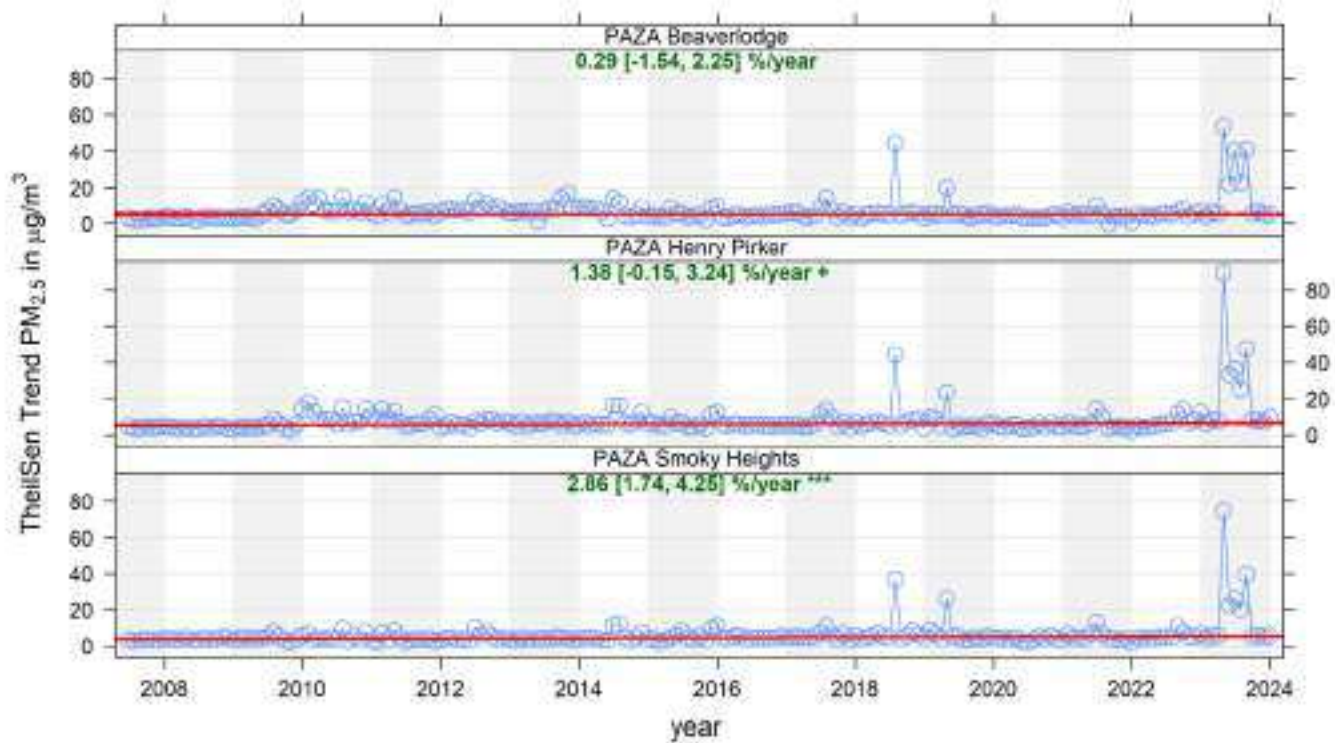
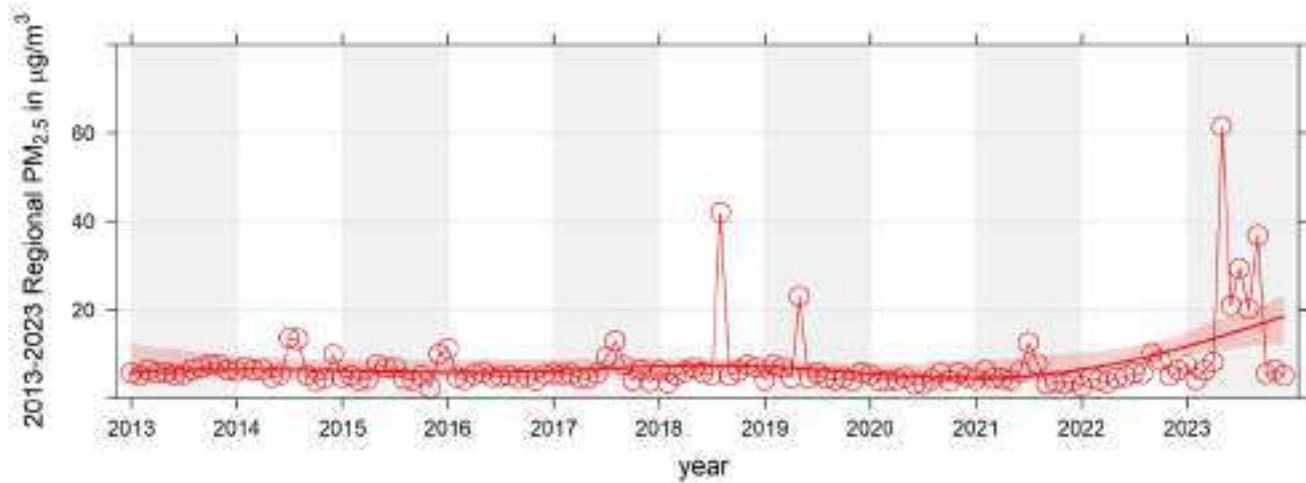
the lowest concentration profile for the year ( $12.9 \mu\text{g}/\text{m}^3$ ), with Henry Pirker showing the highest concentration profile and highest annual average ( $24.3 \mu\text{g}/\text{m}^3$ ).

2023 Daily 95th percentile Concentration Readings at Peace Airshed Zone Association



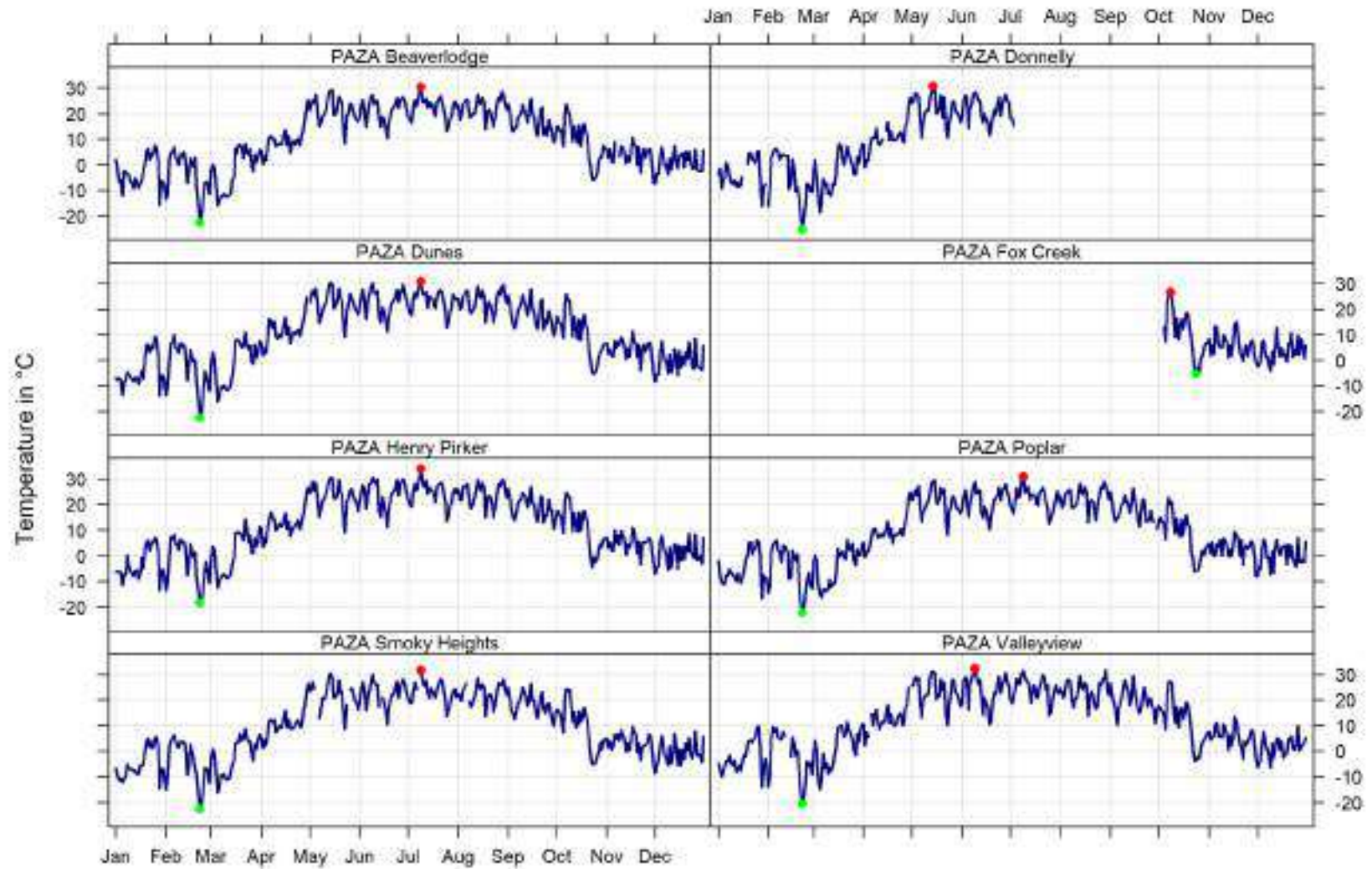


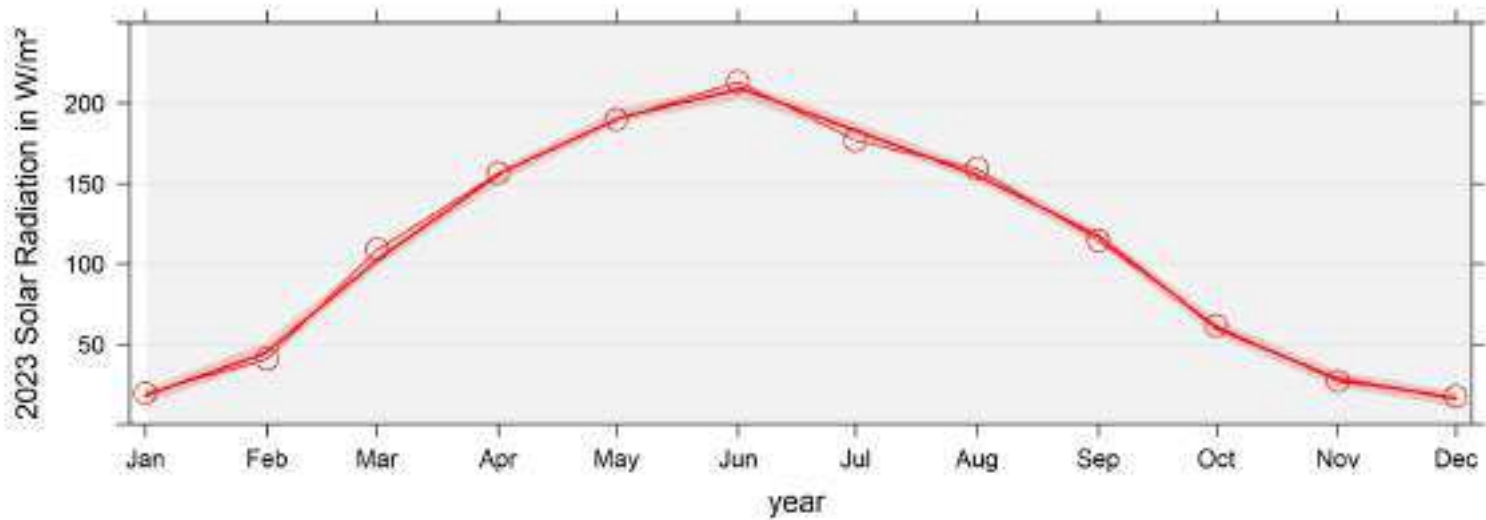
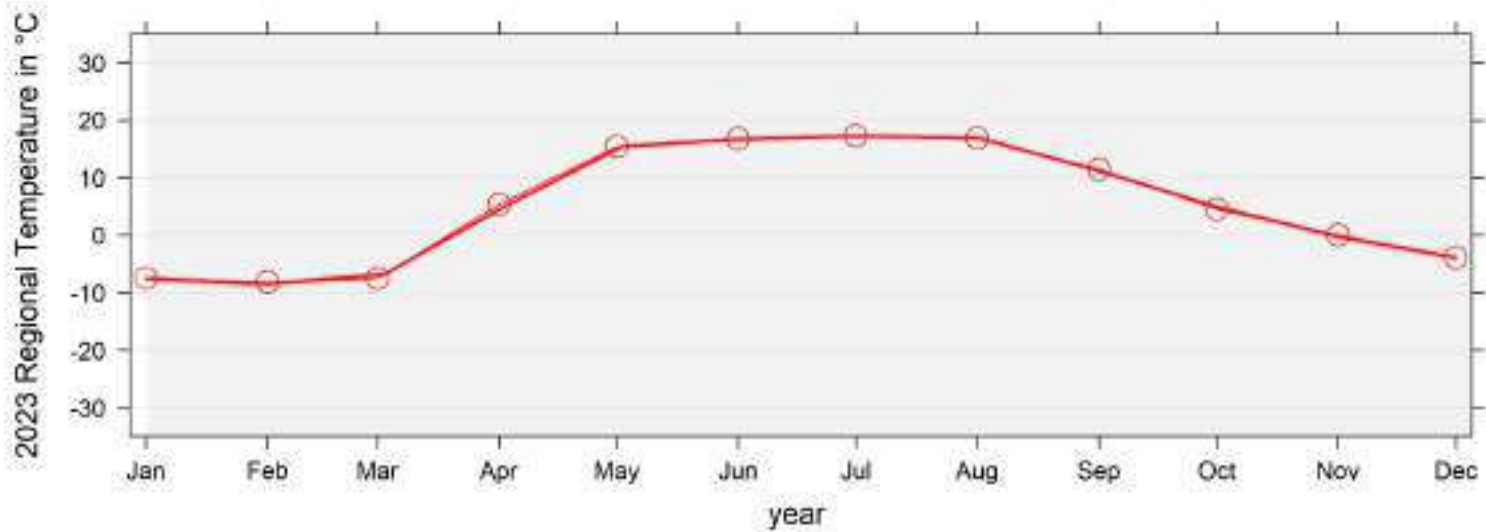
For the historical trends we note last year had a major impact in the regional trends, increasing in 2023. For long term historical trends, Beaverlodge did not show any statistical trend (neither increasing or decreasing) and Henry Pirker showing a slight increasing trend with Smoky Heights showing an increasing trend ( $p < 0.01$  long term trend based on Theil-Sen test). The increase is primarily driven by last years wildfires.



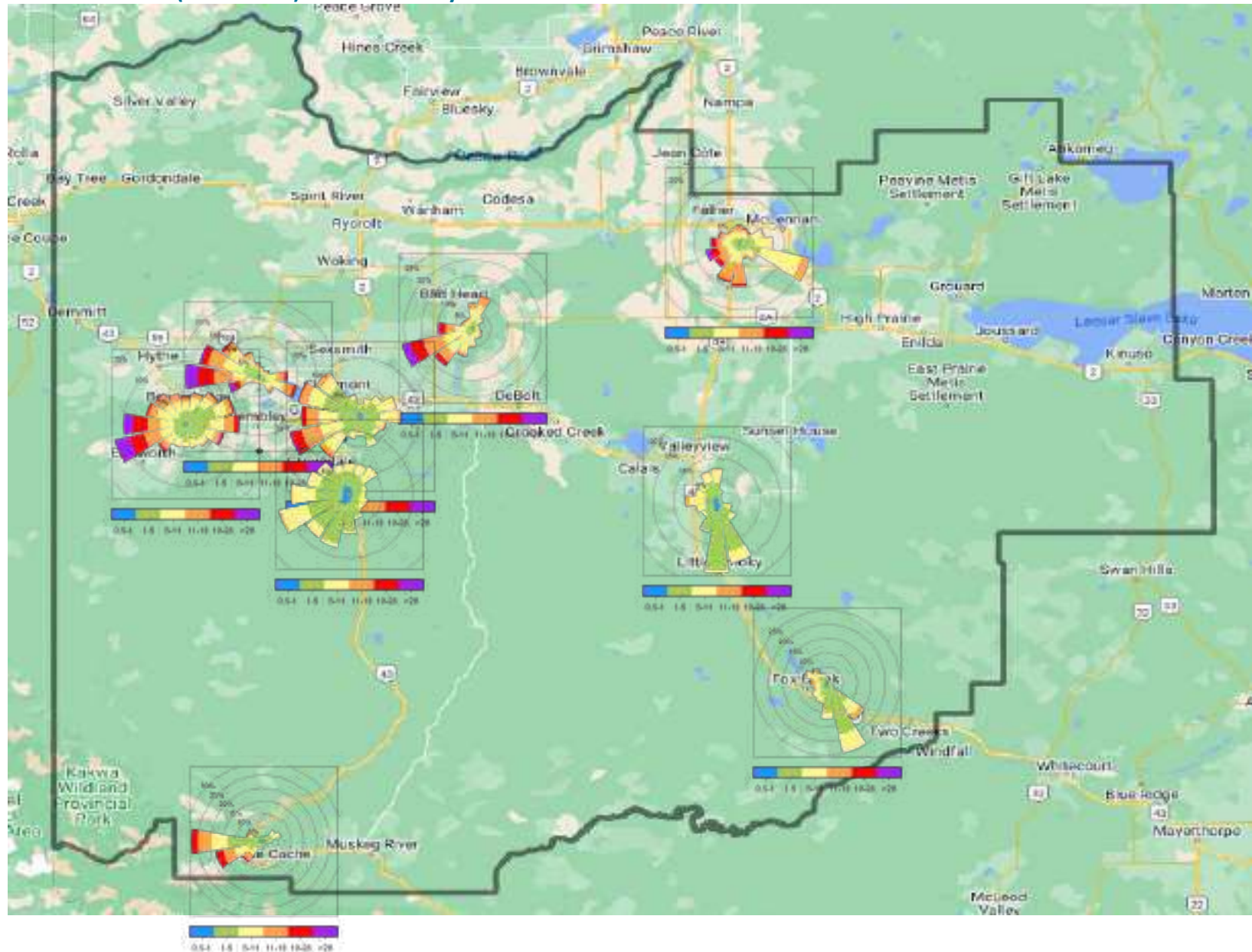
## 2.9 Meteorology 2023 Summary

2023 Daily 95th percentile Temperature Readings at Peace Airshed Zone Association





## 2.10 Wind Profile (wind roses) 2023 Summary



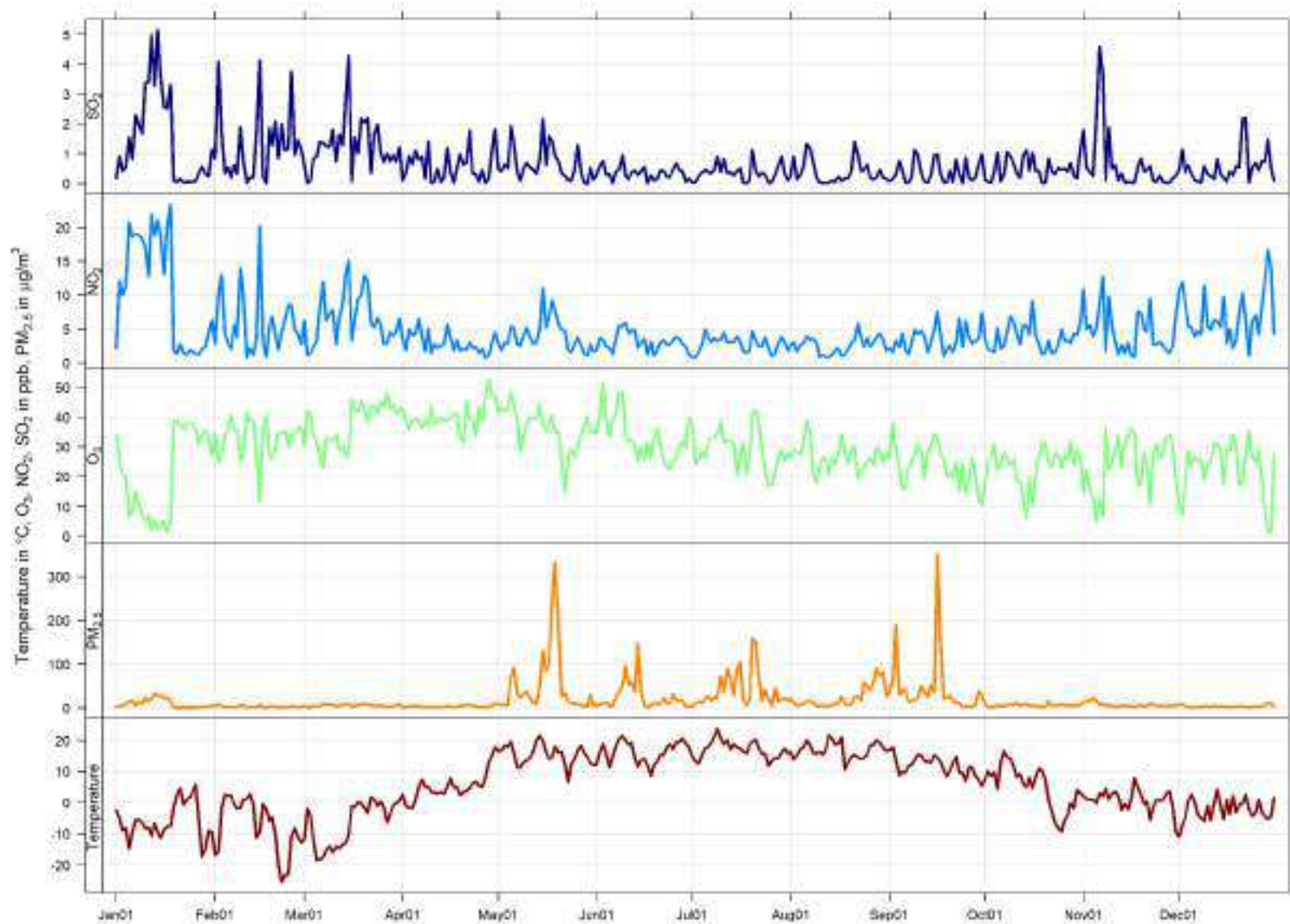
### 3 Beaverlodge Key Parameters - Continuous Monitoring Data - 2023 Summary

Beaverlodge Key Parameters - Continuous Monitoring Data - 2023 Summary

Beaverlodge Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr			Date	1-hr	24-hr	30-d	Annual
	Sulphur Dioxide SO <sub>2</sub> measured in ppb	0.7	5.2	Jan 14	20.0	Feb 25 15:00	99.4%	94.7%	0	0	0	0
	Nitrogen Dioxide NO <sub>2</sub> measured in ppb	4.8	22.2	Jan 18	43.8	Mar 20 07:00	99.6%	94.7%	0	-	-	0
	Nitrogen Oxides NO <sub>x</sub> measured in ppb	5.9	45.2	Jan 18	83.4	Jan 06 12:00	99.6%	94.7%	-	-	-	-
	Nitric Oxide NO measured in ppb	1.1	23.0	Jan 18	56.6	Jan 06 12:00	99.6%	94.7%	-	-	-	-
	Ozone O <sub>3</sub> measured in ppb	29.1	52.5	Apr 28	80.7	May 20 16:00	99.2%	94.6%	2	-	-	-
	Particulate Matter PM <sub>2.5</sub> measured in µg/m <sup>3</sup>	17.8	343.0	Sep 16	993.0	May 19 19:00	97.5%	97.1%	377	48	-	-

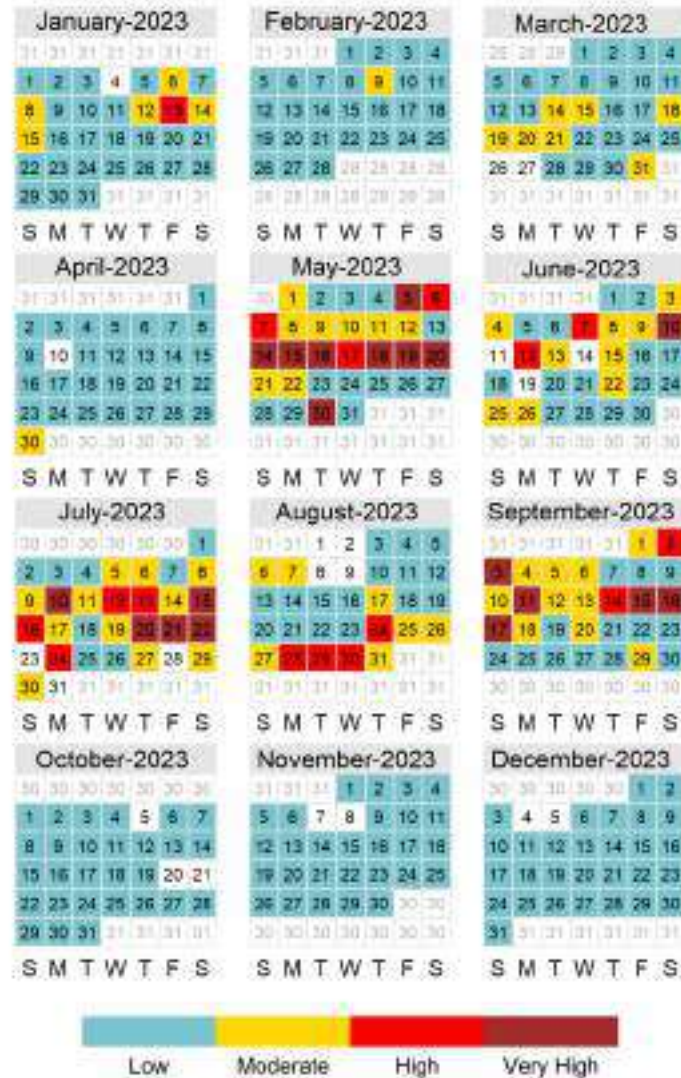
Note: correction of T640 data for Aug 09, 2023 to Dec 01, 2023 (when firmware update performed) resulted in a decrease of 1hr incidents by 1

2023 Daily Concentration Readings at Beaverlodge



### 3.1 Beaverlodge AQHI Calendar Plot for 2023

Hourly Maximum AQHI for 2023 at Beaverlodge





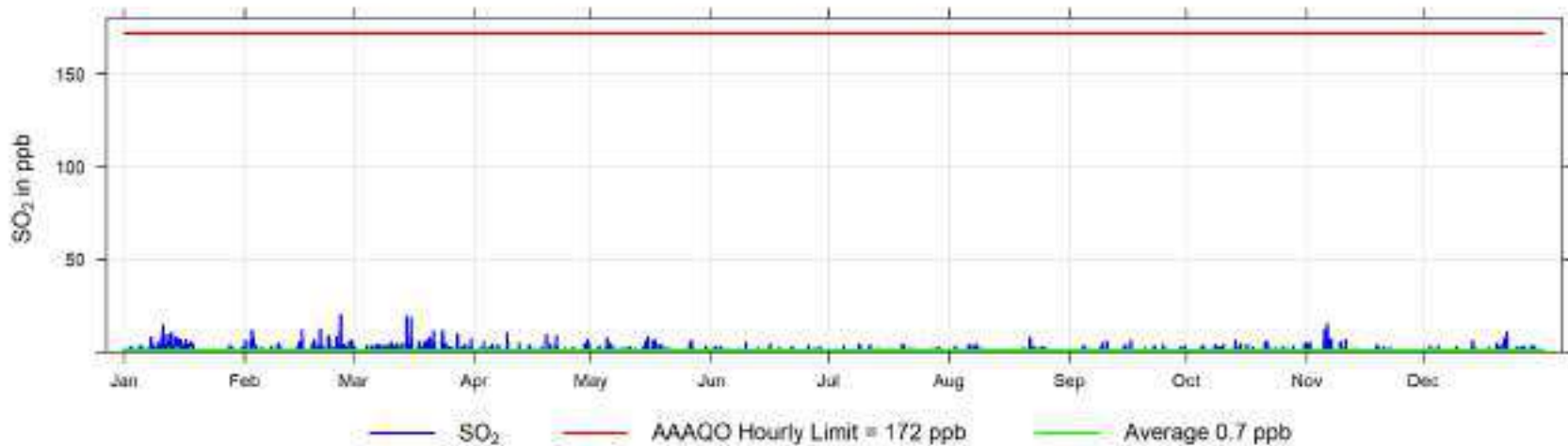
### 3.2 Sulphur Dioxide (SO<sub>2</sub>) - Beaverlodge 2023 Summary

#### Sulphur Dioxide (SO<sub>2</sub>) Frequency Distribution at Beaverlodge

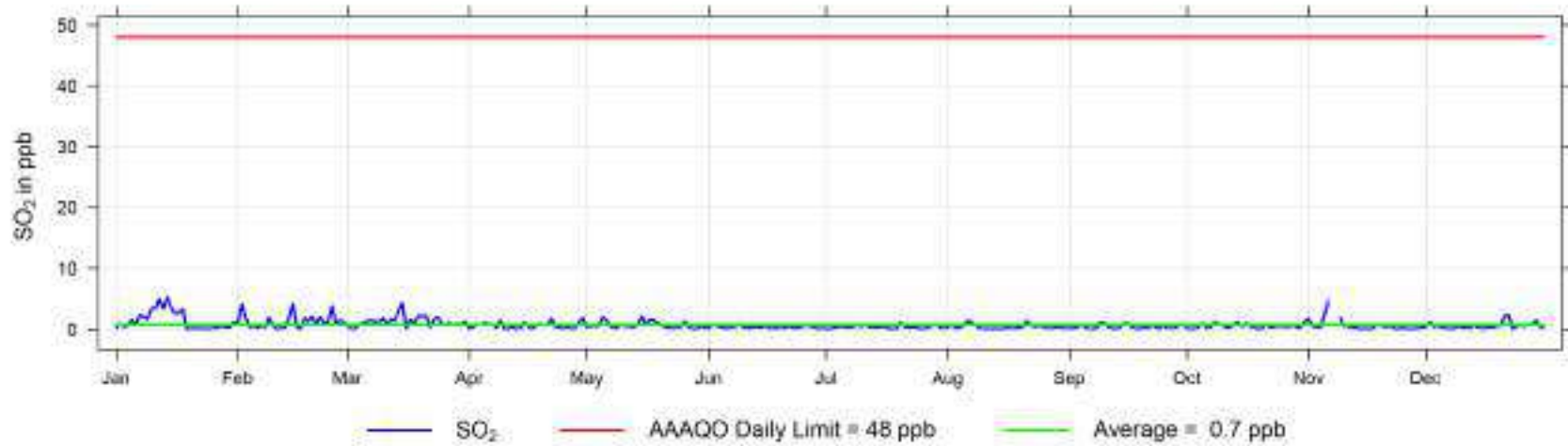
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2023	709	56.4%	36.7%	6.5%	0.4%	0.0%	0.0%	1.5	5.2	Jan 14	14.4	Jan 10 21:00	100.0%	95.3%	0	0	0
February 2023	635	63.9%	30.7%	3.8%	1.6%	0.0%	0.0%	1.3	4.4	Feb 02	20.0	Feb 25 15:00	99.3%	94.5%	0	0	0
March 2023	704	60.8%	35.9%	2.1%	1.1%	0.0%	0.0%	1.3	4.2	Mar 15	19.2	Mar 14 16:00	99.3%	94.6%	0	0	0
April 2023	683	82.6%	16.4%	0.9%	0.1%	0.0%	0.0%	0.6	1.8	Apr 30	10.3	Apr 09 11:00	99.6%	94.9%	0	0	0
May 2023	709	79.0%	20.0%	1.0%	0.0%	0.0%	0.0%	0.7	2.1	May 05	7.8	May 15 15:00	100.0%	95.3%	0	0	0
June 2023	684	92.3%	7.7%	0.0%	0.0%	0.0%	0.0%	0.4	0.9	Jun 09	4.8	Jun 09 20:00	99.7%	95.0%	0	0	0
July 2023	706	91.9%	8.1%	0.0%	0.0%	0.0%	0.0%	0.4	1.1	Jul 20	4.2	Jul 20 03:00	99.6%	94.9%	0	0	0
August 2023	706	90.8%	8.8%	0.4%	0.0%	0.0%	0.0%	0.4	1.4	Aug 21	7.6	Aug 21 22:00	99.6%	94.9%	0	0	0
September 2023	686	89.1%	10.6%	0.3%	0.0%	0.0%	0.0%	0.4	1.0	Sep 09	5.7	Sep 16 21:00	100.0%	95.3%	0	0	0
October 2023	708	85.7%	13.8%	0.4%	0.0%	0.0%	0.0%	0.5	1.2	Oct 14	6.1	Oct 13 15:00	99.7%	95.2%	0	0	0
November 2023	661	83.5%	13.9%	2.0%	0.6%	0.0%	0.0%	0.6	4.5	Nov 06	15.0	Nov 06 06:00	96.4%	91.8%	0	0	0
December 2023	707	85.4%	13.6%	0.8%	0.1%	0.0%	0.0%	0.6	2.4	Dec 21	10.6	Dec 22 09:00	99.7%	95.0%	0	0	0
<b>Annual</b>	<b>8298</b>	<b>80.1%</b>	<b>18.0%</b>	<b>1.5%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7</b>	<b>5.2</b>	<b>MAXIMUM VALUES</b>		<b>99.4%</b>	<b>94.7%</b>	<b>0</b>	<b>0</b>	<b>0</b>	

AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

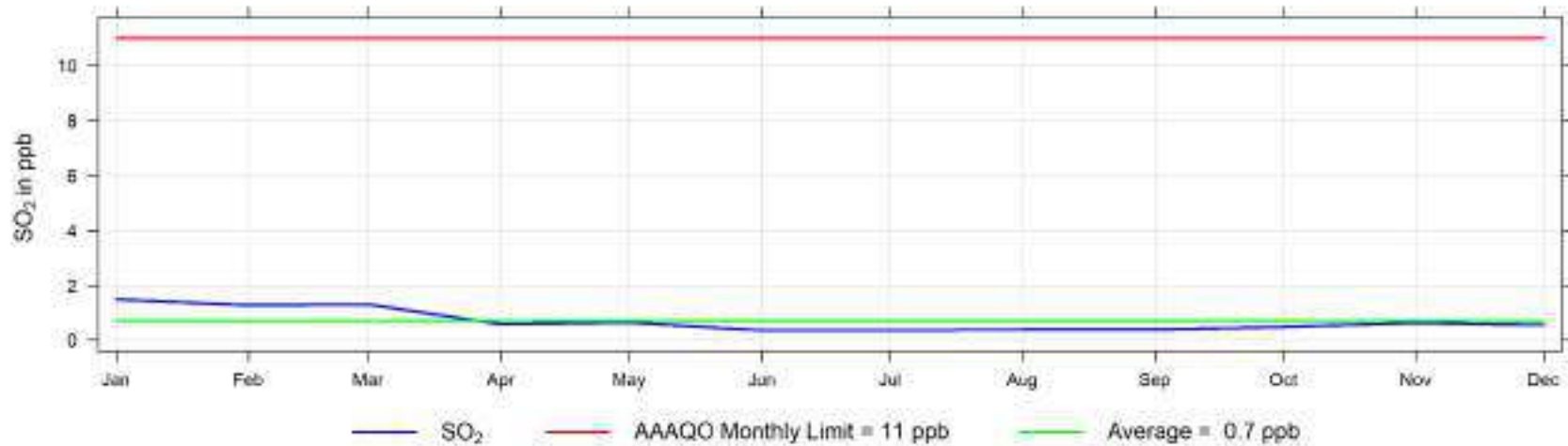
2023 Hourly Concentration Readings of SO<sub>2</sub> (in ppb) at Beaverlodge



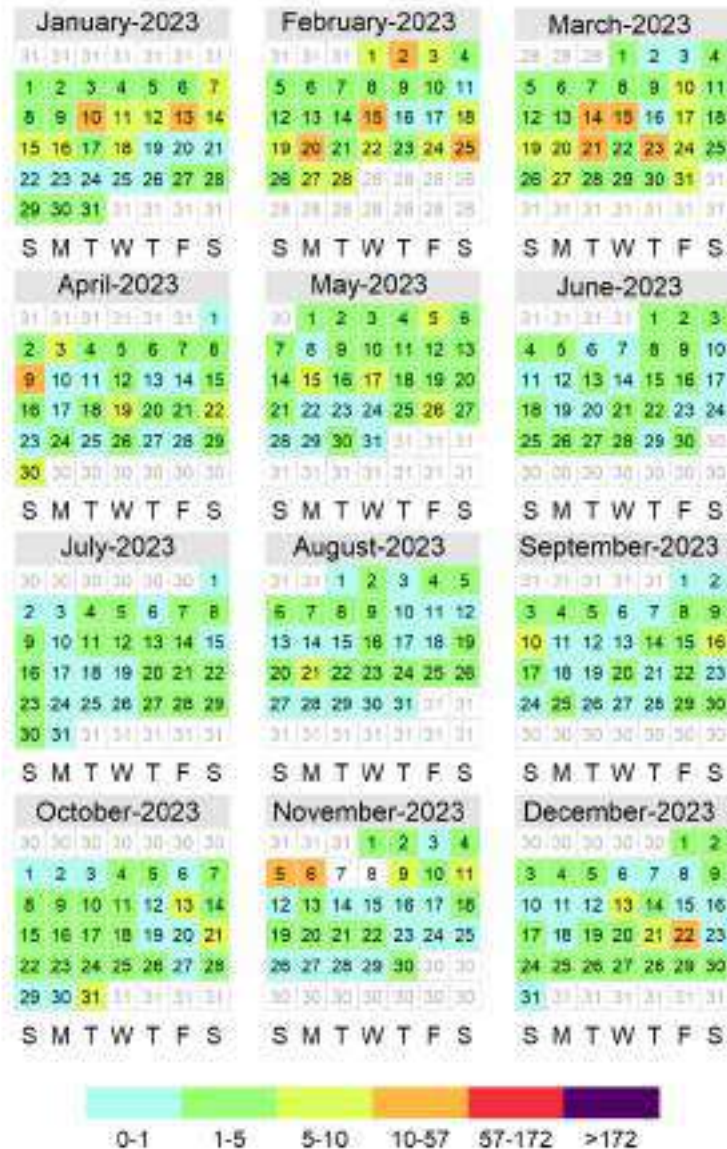
2023 Daily Concentration Readings of SO<sub>2</sub> (in ppb) at Beaverlodge

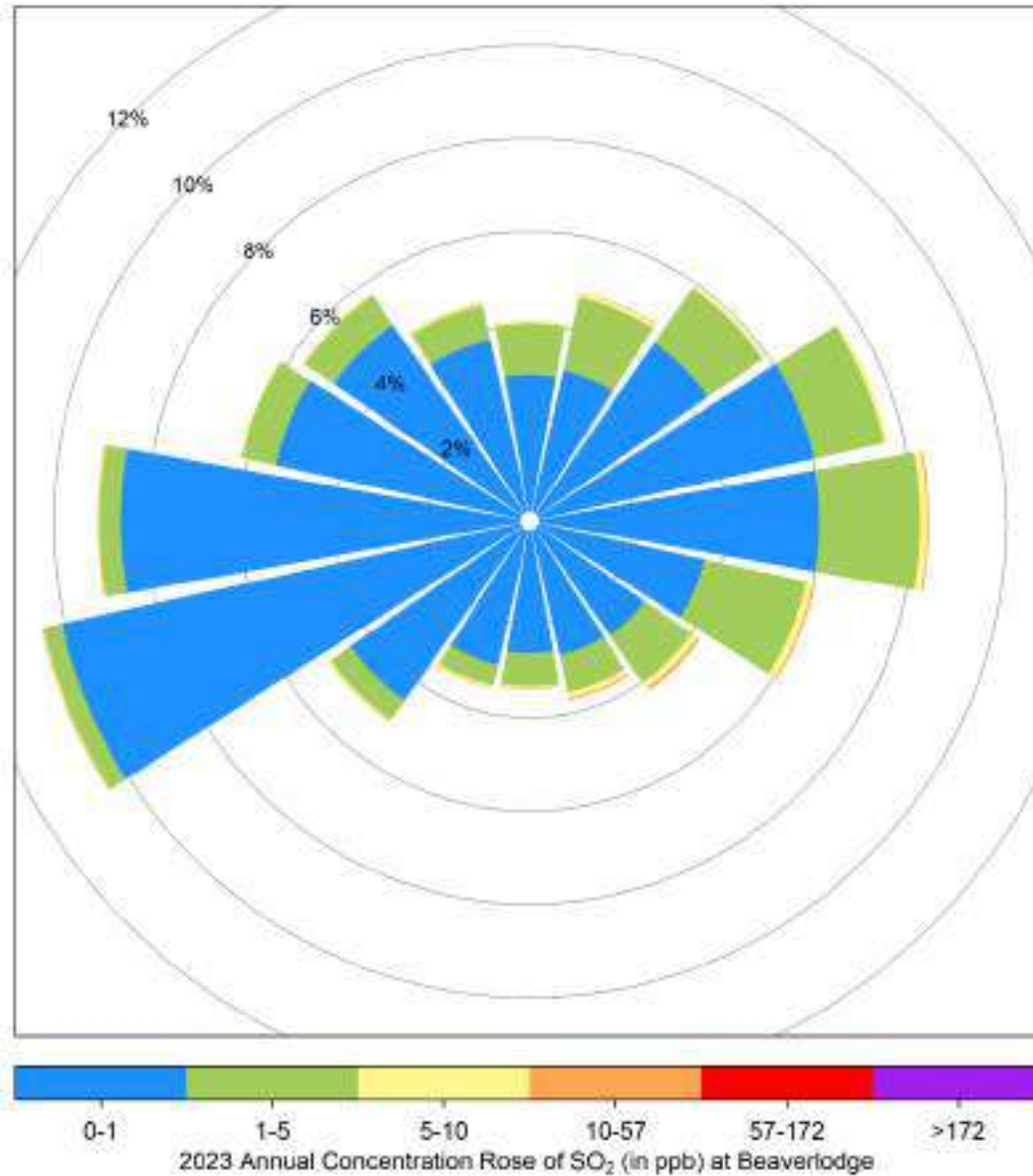


2023 Monthly Concentration Readings of SO<sub>2</sub> (in ppb) at Beaverlodge



## Hourly Maximum SO<sub>2</sub> (in ppb) for 2023 at Beaverlodge





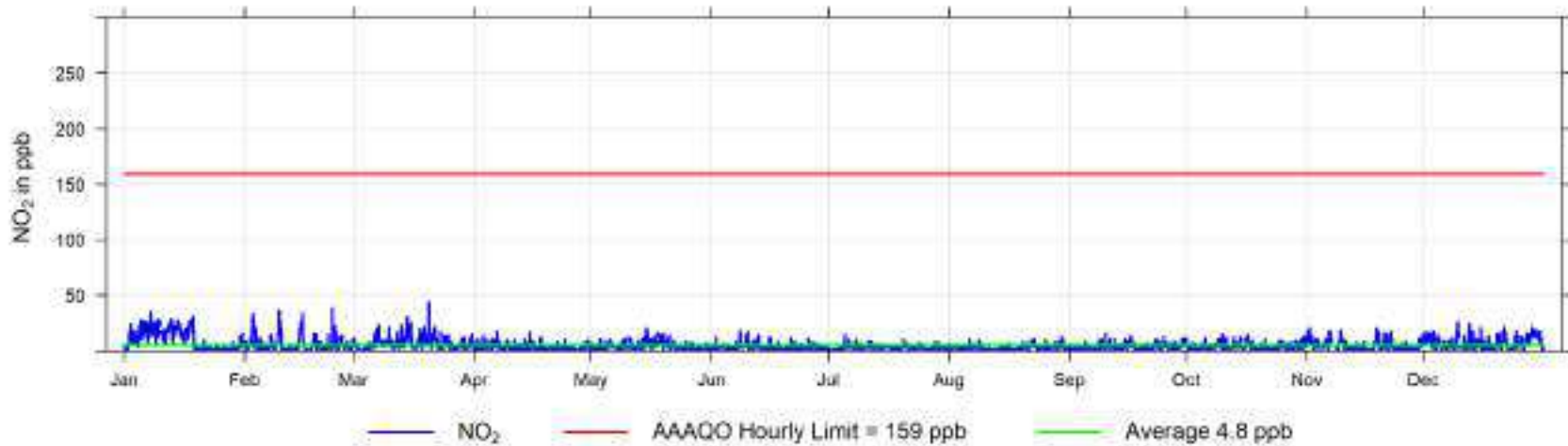
### 3.3 Nitrogen Dioxide (NO<sub>2</sub>) - Beaverlodge 2023 Summary

#### Nitrogen Dioxide (NO<sub>2</sub>) Frequency Distribution at Beaverlodge

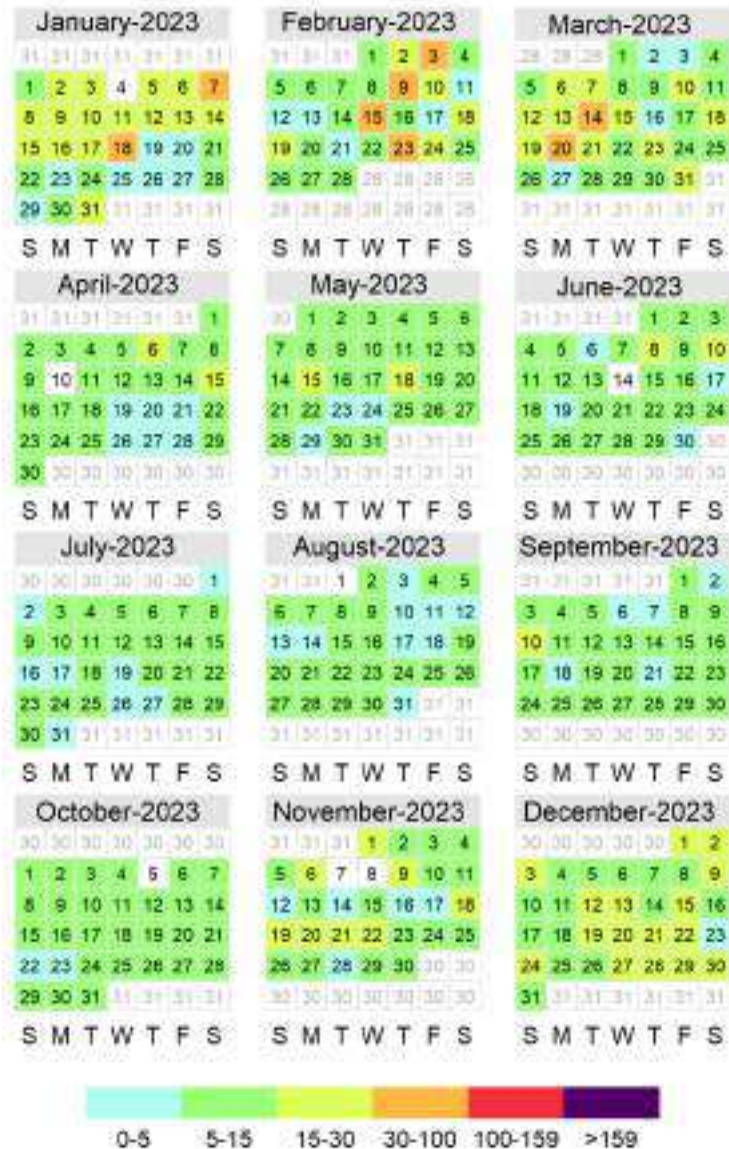
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 159 ppb	
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb) Date				
January 2023	707	41.9%	23.3%	34.2%	0.6%	0.0%	0.0%	10.6	22.2	Jan 18	35.2	Jan 07 19:00	100.0%	95.0%	0
February 2023	639	64.2%	26.4%	8.1%	1.3%	0.0%	0.0%	5.7	20.1	Feb 15	38.5	Feb 23 11:00	100.0%	95.1%	0
March 2023	708	48.3%	42.9%	8.5%	0.3%	0.0%	0.0%	6.6	14.3	Mar 15	43.8	Mar 20 07:00	100.0%	95.2%	0
April 2023	684	80.6%	19.0%	0.4%	0.0%	0.0%	0.0%	3.0	6.5	Apr 06	17.7	Apr 06 22:00	100.0%	95.0%	0
May 2023	708	69.1%	29.8%	1.1%	0.0%	0.0%	0.0%	4.1	10.7	May 15	21.2	May 15 07:00	100.0%	95.2%	0
June 2023	680	81.2%	18.2%	0.6%	0.0%	0.0%	0.0%	3.2	5.8	Jun 09	18.9	Jun 08 07:00	99.7%	94.4%	0
July 2023	705	87.8%	12.2%	0.0%	0.0%	0.0%	0.0%	2.8	4.8	Jul 05	14.4	Jul 05 07:00	99.6%	94.8%	0
August 2023	704	87.1%	12.9%	0.0%	0.0%	0.0%	0.0%	2.6	5.9	Aug 22	12.7	Aug 29 21:00	99.6%	94.6%	0
September 2023	685	74.9%	25.0%	0.1%	0.0%	0.0%	0.0%	3.5	7.7	Sep 16	15.9	Sep 10 06:00	100.0%	95.1%	0
October 2023	704	73.4%	26.6%	0.0%	0.0%	0.0%	0.0%	3.7	9.2	Oct 16	14.9	Oct 10 09:00	99.6%	94.6%	0
November 2023	660	67.0%	28.2%	4.8%	0.0%	0.0%	0.0%	4.6	10.9	Nov 01	21.2	Nov 18 21:00	96.4%	91.7%	0
December 2023	708	48.0%	41.5%	10.5%	0.0%	0.0%	0.0%	7.0	16.4	Dec 29	26.3	Dec 09 19:00	100.0%	95.2%	0
<b>Annual</b>	<b>8292</b>	<b>68.6%</b>	<b>25.5%</b>	<b>5.7%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.8</b>	<b>22.2</b>	<b>MAXIMUM VALUES</b>		<b>99.6%</b>	<b>94.7%</b>	<b>0</b>	

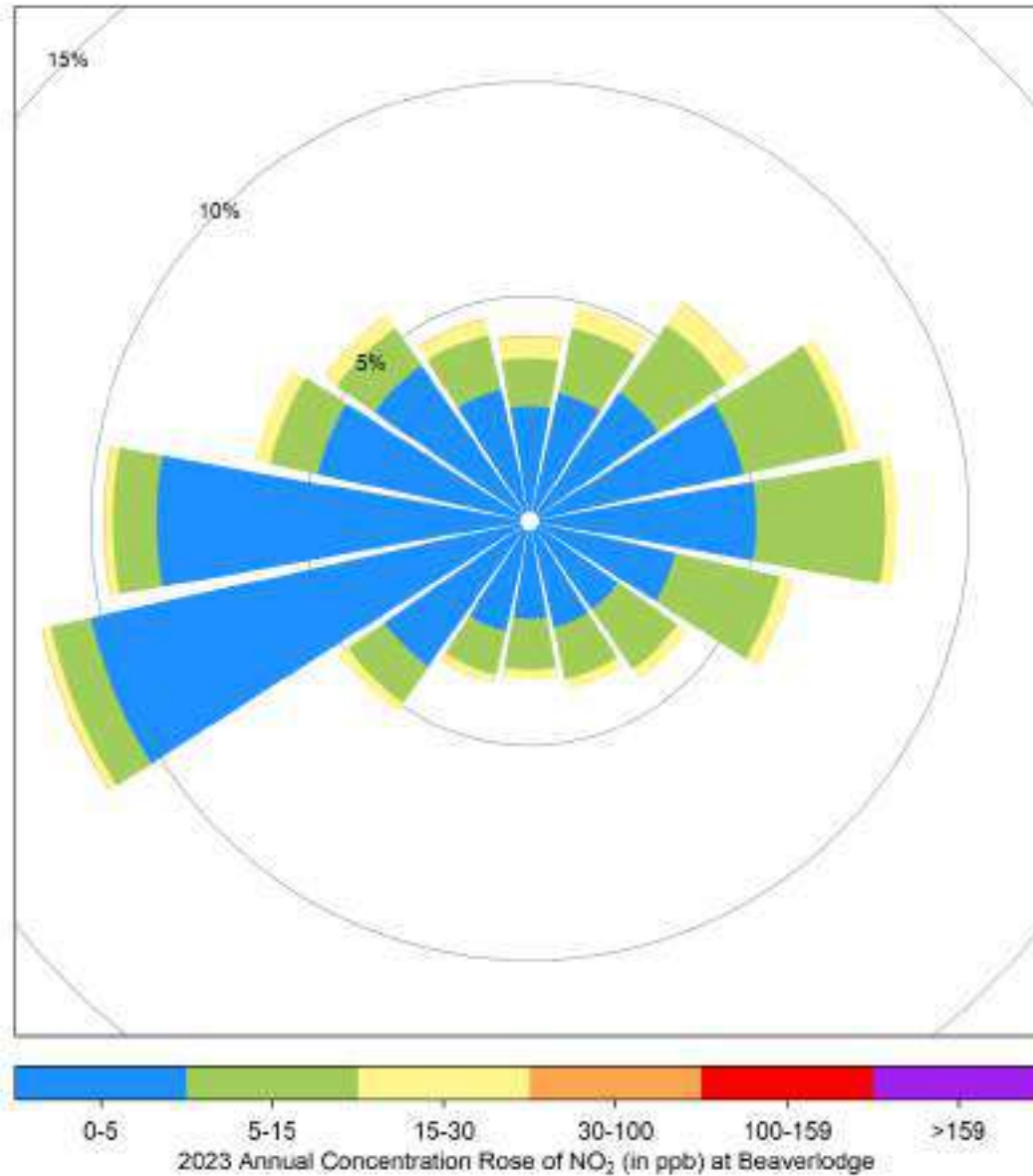
AAAQO Objectives: Annual: 24ppb, 1-Hr: 159ppb

2023 Hourly Concentration Readings of NO<sub>2</sub> (in ppb) at Beaverlodge



## Hourly Maximum NO<sub>2</sub> (in ppb) for 2023 at Beaverlodge





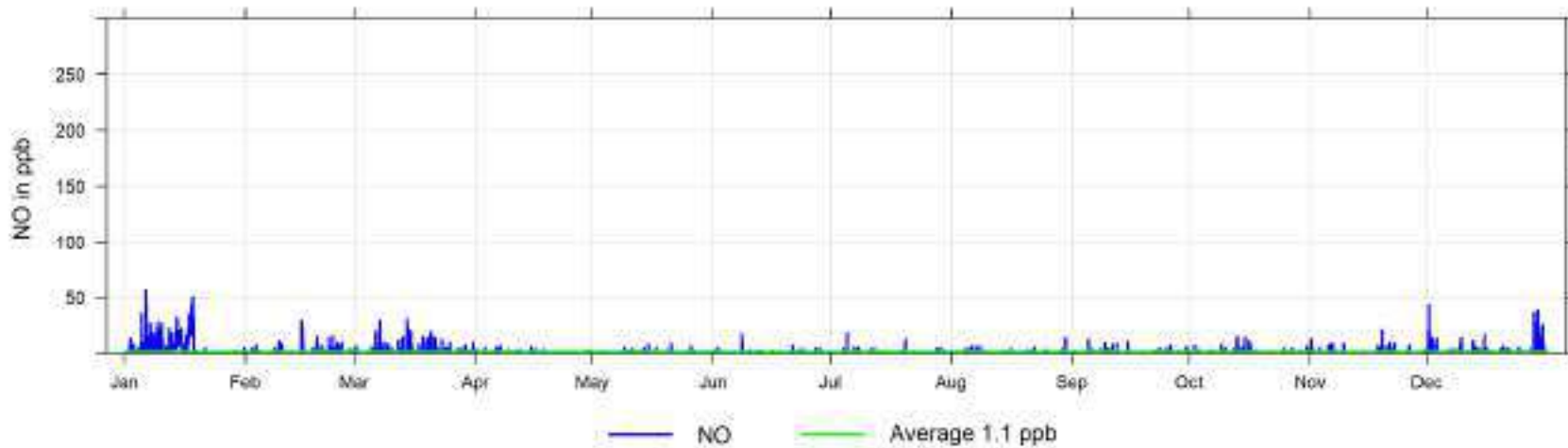
### 3.4 Nitric Oxide (NO) - Beaverlodge 2023 Summary

Nitric Oxide (NO) Frequency Distribution at Beaverlodge

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date		
January 2023	707	75.2%	14.3%	8.3%	2.1%	0.0%	0.0%	4.5	23.0	Jan 18	56.6	Jan 06 12:00	100.0%	95.0%
February 2023	639	93.1%	5.6%	1.3%	0.0%	0.0%	0.0%	1.2	9.2	Feb 15	29.1	Feb 15 10:00	100.0%	95.1%
March 2023	708	88.4%	10.2%	1.3%	0.1%	0.0%	0.0%	1.9	6.0	Mar 14	30.6	Mar 14 13:00	100.0%	95.2%
April 2023	684	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.4	1.4	Apr 06	6.0	Apr 07 11:00	100.0%	95.0%
May 2023	708	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.3	1.2	May 21	8.3	May 21 06:00	100.0%	95.2%
June 2023	680	99.4%	0.4%	0.1%	0.0%	0.0%	0.0%	0.4	1.4	Jun 08	16.9	Jun 08 07:00	99.7%	94.4%
July 2023	705	99.4%	0.4%	0.1%	0.0%	0.0%	0.0%	0.4	1.5	Jul 05	18.6	Jul 05 07:00	99.6%	94.8%
August 2023	704	99.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.3	1.2	Aug 30	13.4	Aug 30 08:00	99.6%	94.6%
September 2023	685	98.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.5	1.8	Sep 30	12.3	Sep 05 08:00	100.0%	95.1%
October 2023	704	97.7%	2.3%	0.0%	0.0%	0.0%	0.0%	0.6	3.5	Oct 16	14.7	Oct 13 09:00	99.6%	94.6%
November 2023	660	96.2%	3.5%	0.3%	0.0%	0.0%	0.0%	0.7	2.6	Nov 01	21.1	Nov 19 11:00	96.4%	91.7%
December 2023	708	90.4%	7.3%	1.8%	0.4%	0.0%	0.0%	1.7	9.8	Dec 29	43.4	Dec 01 10:00	100.0%	95.2%
<b>Annual</b>	<b>8292</b>	<b>94.7%</b>	<b>4.0%</b>	<b>1.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.1</b>	<b>23.0</b>	<b>MAXIMUM VALUES</b>		<b>99.6%</b>	<b>94.7%</b>	

AAAQO Objectives: none

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





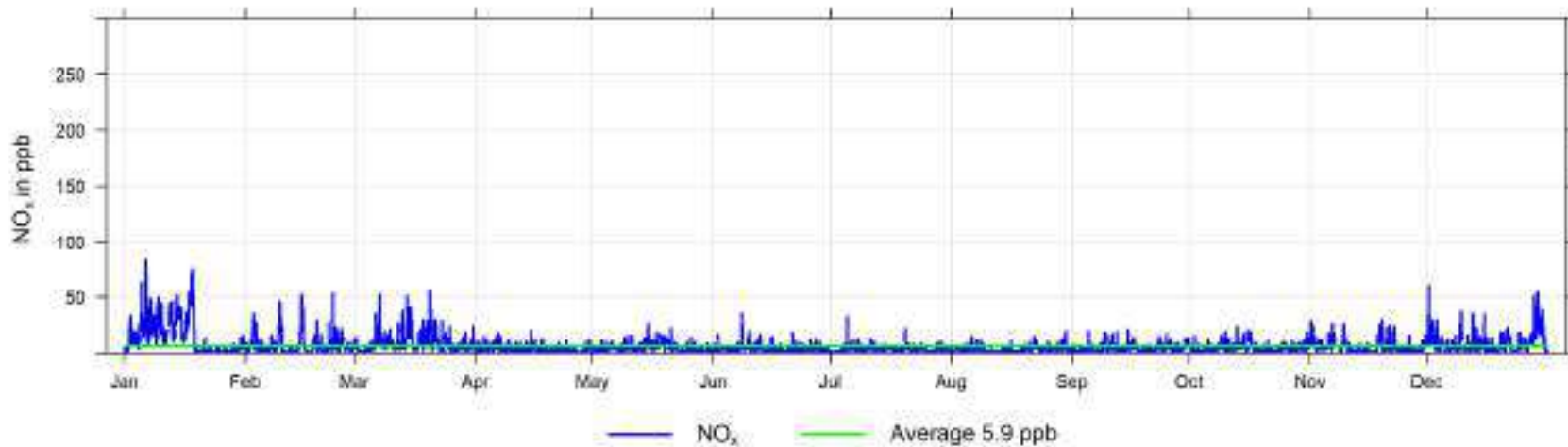
### 3.5 Oxides of Nitrogen (NO<sub>x</sub>) - Beaverlodge 2023 Summary

Nitrogen Oxides (NO<sub>x</sub>) Frequency Distribution at Beaverlodge

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb) Date			
January 2023	707	41.0%	19.7%	20.5%	18.8%	0.0%	0.0%	15.1	45.2	Jan 18	83.4	Jan 06 12:00	100.0%	95.0%
February 2023	639	59.2%	28.0%	9.7%	3.1%	0.0%	0.0%	6.9	29.3	Feb 15	53.3	Feb 23 11:00	100.0%	95.1%
March 2023	708	42.1%	42.9%	12.9%	2.1%	0.0%	0.0%	8.5	20.0	Mar 14	55.7	Mar 20 07:00	100.0%	95.2%
April 2023	684	79.2%	20.3%	0.4%	0.0%	0.0%	0.0%	3.4	8.0	Apr 06	20.6	Apr 15 08:00	100.0%	95.0%
May 2023	708	66.0%	31.6%	2.4%	0.0%	0.0%	0.0%	4.4	11.8	May 15	27.0	May 15 08:00	100.0%	95.2%
June 2023	680	78.4%	20.6%	0.9%	0.1%	0.0%	0.0%	3.5	6.8	Jun 08	35.8	Jun 08 07:00	99.7%	94.4%
July 2023	705	83.1%	16.5%	0.3%	0.1%	0.0%	0.0%	3.2	6.2	Jul 05	33.0	Jul 05 07:00	99.6%	94.8%
August 2023	704	83.7%	16.1%	0.3%	0.0%	0.0%	0.0%	3.0	6.9	Aug 22	19.6	Aug 30 09:00	99.6%	94.6%
September 2023	685	69.8%	28.9%	1.3%	0.0%	0.0%	0.0%	4.1	9.1	Sep 30	21.0	Sep 15 09:00	100.0%	95.1%
October 2023	704	68.8%	28.6%	2.7%	0.0%	0.0%	0.0%	4.3	12.8	Oct 16	23.8	Oct 13 09:00	99.6%	94.6%
November 2023	660	64.4%	28.2%	7.4%	0.0%	0.0%	0.0%	5.3	13.5	Nov 01	29.8	Nov 19 11:00	96.4%	91.7%
December 2023	708	47.2%	34.0%	15.5%	3.2%	0.0%	0.0%	8.7	26.3	Dec 29	60.7	Dec 01 10:00	100.0%	95.2%
<b>Annual</b>	<b>8292</b>	<b>65.2%</b>	<b>26.3%</b>	<b>6.2%</b>	<b>2.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.9</b>	<b>45.2</b>	<b>MAXIMUM VALUES</b>		<b>99.6%</b>	<b>94.7%</b>	

AAAQO Objectives: none

2023 Hourly Concentration Readings of NO<sub>x</sub> (in ppb) at Beaverlodge



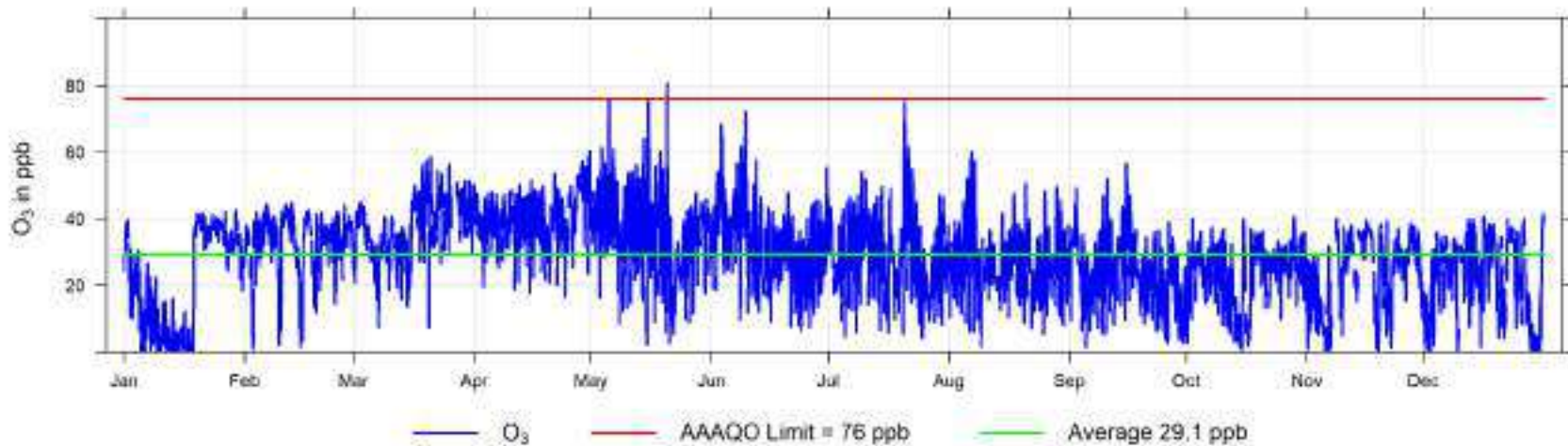
### 3.6 Ozone (O<sub>3</sub>) - Beaverlodge 2023 Summary

Ozone (O<sub>3</sub>) Frequency Distribution at Beaverlodge

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 76 ppb	
		0 to 10 (ppb)	10 to 20 (ppb)	20 to 40 (ppb)	40 to 60 (ppb)	60 to 76 (ppb)	> 76 (ppb)			Date	1-hr (ppb) Date				
January 2023	709	35.4%	12.8%	46.7%	5.1%	0.0%	0.0%	20.8	38.9	Jan 20	42.3	Jan 29 16:00	100.0%	95.3%	0
February 2023	640	4.4%	5.8%	72.3%	17.5%	0.0%	0.0%	32.6	41.7	Feb 11	44.7	Feb 12 23:00	100.0%	95.2%	0
March 2023	680	0.6%	2.9%	55.6%	40.9%	0.0%	0.0%	37.3	46.1	Mar 16	58.4	Mar 20 18:00	96.0%	91.4%	0
April 2023	686	0.0%	0.7%	48.3%	50.9%	0.1%	0.0%	40.1	52.5	Apr 28	60.4	Apr 30 17:00	100.0%	95.3%	0
May 2023	709	2.7%	10.2%	47.1%	36.2%	3.5%	0.3%	36.1	48.5	May 05	80.7	May 20 16:00	100.0%	95.3%	2
June 2023	684	1.6%	11.8%	60.2%	24.0%	2.3%	0.0%	33.2	52.1	Jun 03	72.1	Jun 09 17:00	99.6%	95.0%	0
July 2023	706	3.8%	19.7%	58.6%	16.9%	1.0%	0.0%	29.1	42.5	Jul 21	75.1	Jul 20 16:00	99.3%	94.9%	0
August 2023	706	3.7%	22.1%	66.0%	8.1%	0.1%	0.0%	26.6	39.0	Aug 06	60.1	Aug 06 18:00	99.6%	94.9%	0
September 2023	686	10.3%	26.8%	56.6%	6.3%	0.0%	0.0%	23.7	38.2	Sep 02	56.5	Sep 15 17:00	100.0%	95.3%	0
October 2023	707	11.3%	15.1%	73.4%	0.1%	0.0%	0.0%	23.7	32.2	Oct 28	40.7	Oct 28 16:00	99.7%	95.0%	0
November 2023	661	14.1%	19.5%	66.4%	0.0%	0.0%	0.0%	24.1	36.6	Nov 16	40.0	Nov 08 15:00	96.4%	91.8%	0
December 2023	709	20.5%	18.3%	59.9%	1.3%	0.0%	0.0%	22.6	35.6	Dec 23	41.4	Dec 31 22:00	100.0%	95.3%	0
<b>Annual</b>	<b>8283</b>	<b>9.0%</b>	<b>13.8%</b>	<b>59.3%</b>	<b>17.3%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>29.1</b>	<b>52.5</b>	<b>MAXIMUM VALUES</b>		<b>99.2%</b>	<b>94.6%</b>	<b>2</b>	

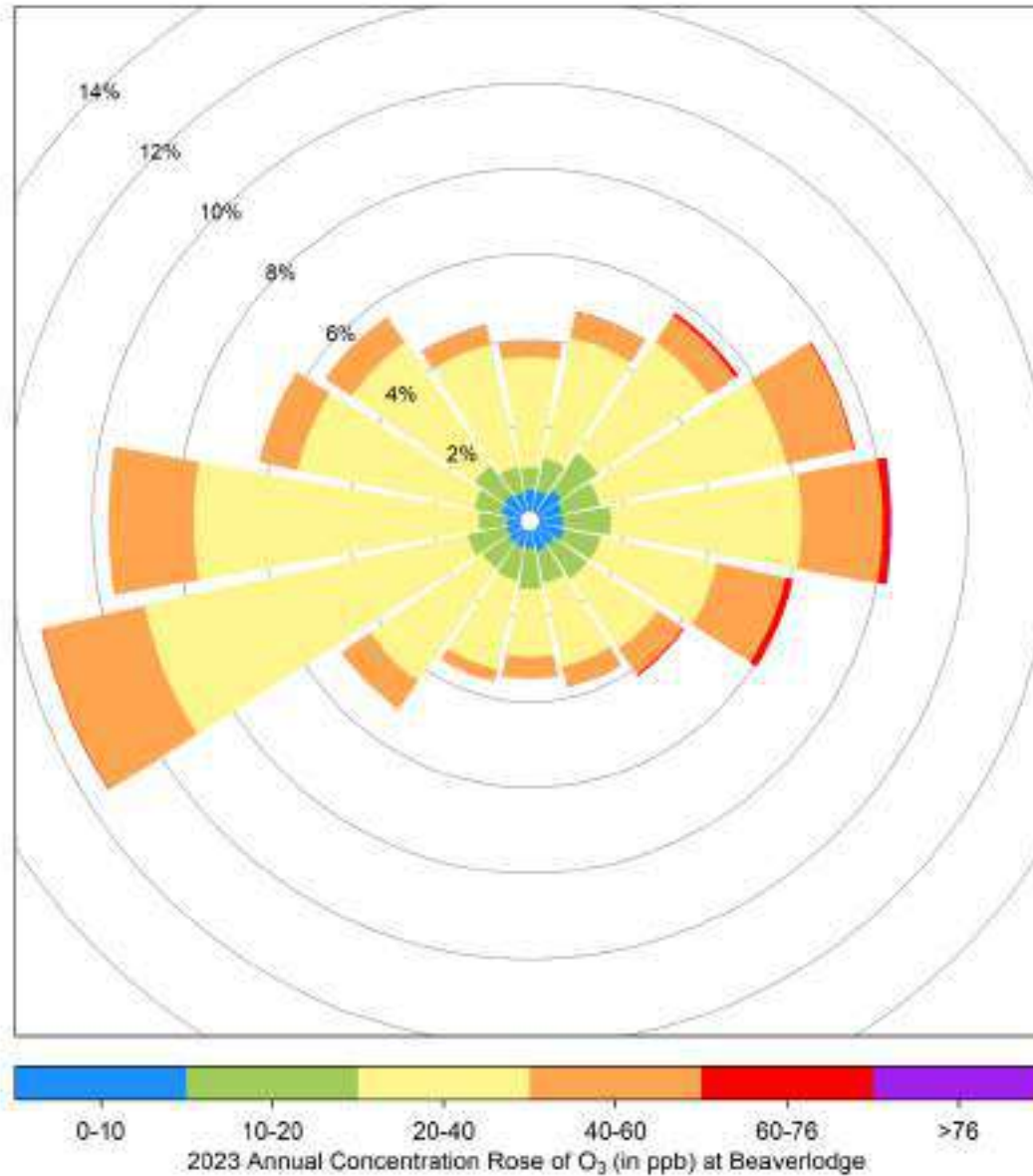
AAAQO Objectives: 1-Hr: 76ppb

2023 Hourly Concentration Readings of O<sub>3</sub> (in ppb) at Beaverlodge



## Hourly Maximum O<sub>3</sub> (in ppb) for 2023 at Beaverlodge





### 3.7 Particulate Matter (PM<sub>2.5</sub>) - Beaverlodge 2023 Summary

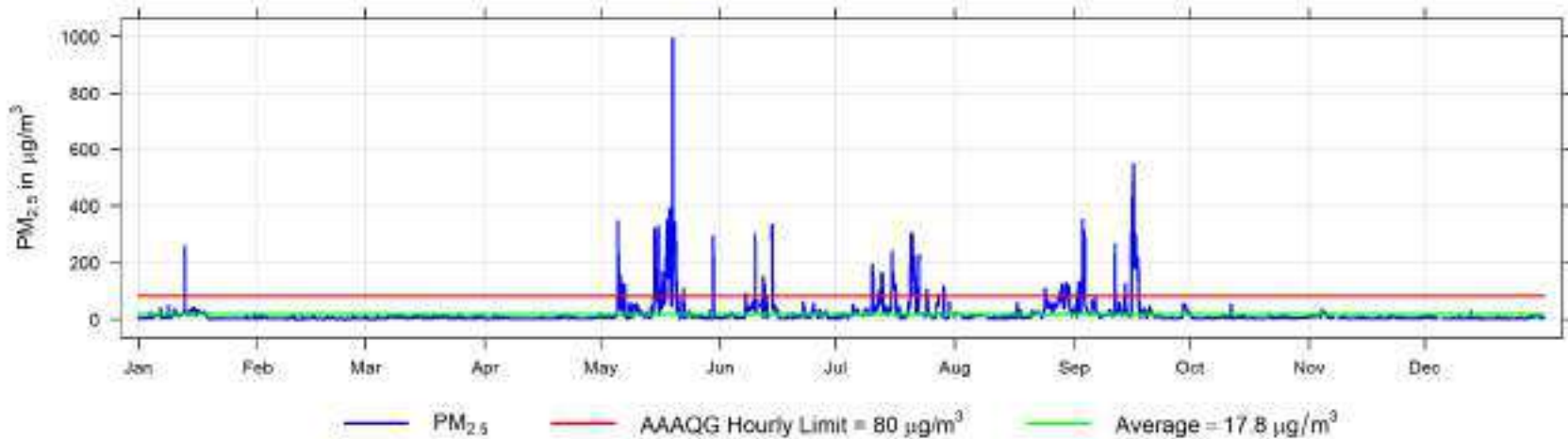
#### Particulate Matter (PM<sub>2.5</sub>) Frequency Distribution at Beaverlodge

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m <sup>3</sup> )	24-hr (µg/m <sup>3</sup> )	MAXIMUM VALUES			Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 5 (µg/m <sup>3</sup> )	5 to 15 (µg/m <sup>3</sup> )	15 to 30 (µg/m <sup>3</sup> )	30 to 50 (µg/m <sup>3</sup> )	50 to 80 (µg/m <sup>3</sup> )	> 80 (µg/m <sup>3</sup> )			Date	1-hr (µg/m <sup>3</sup> )	Date			24-hr 29 µg/m <sup>3</sup>	1-hr 80 µg/m <sup>3</sup>
January 2023	741	51.3%	21.6%	23.1%	3.8%	0.0%	0.3%	9.5	32.4	Jan 13	258.0	Jan 13 02:00	100.0%	99.6%	1	2
February 2023	671	84.1%	14.9%	1.0%	0.0%	0.0%	0.0%	2.5	9.7	Feb 02	19.3	Feb 02 02:00	100.0%	99.9%	0	0
March 2023	741	56.0%	42.5%	1.5%	0.0%	0.0%	0.0%	5.0	9.0	Mar 20	19.7	Mar 31 05:00	100.0%	99.6%	0	0
April 2023	717	81.5%	18.3%	0.3%	0.0%	0.0%	0.0%	3.1	10.4	Apr 30	22.5	May 01 00:00	100.0%	99.6%	0	0
May 2023	732	20.1%	34.2%	10.9%	9.3%	8.2%	17.3%	51.1	330.8	May 19	993.0	May 19 19:00	98.8%	98.4%	13	127
June 2023	667	27.3%	32.5%	16.3%	14.1%	7.3%	2.4%	21.6	59.6	Jun 12	333.9	Jun 14 13:00	92.9%	92.6%	5	16
July 2023	699	10.4%	29.2%	24.9%	14.2%	6.2%	15.2%	40.9	167.5	Jul 20	304.4	Jul 20 15:00	93.4%	94.0%	10	106
August 2023	687	28.8%	26.2%	20.4%	10.9%	7.6%	6.1%	23.3	89.9	Aug 28	128.4	Aug 29 19:00	93.4%	92.3%	7	42
September 2023	719	16.8%	23.2%	30.9%	12.9%	4.5%	11.7%	43.6	343.0	Sep 16	547.0	Sep 16 10:00	100.0%	99.9%	12	84
October 2023	723	69.2%	29.0%	1.7%	0.0%	0.1%	0.0%	4.5	10.8	Oct 11	50.1	Oct 11 17:00	97.7%	97.2%	0	0
November 2023	692	64.6%	28.2%	6.9%	0.3%	0.0%	0.0%	5.4	21.2	Nov 04	32.8	Nov 04 10:00	96.4%	96.1%	0	0
December 2023	719	77.7%	22.1%	0.1%	0.0%	0.0%	0.0%	3.5	10.8	Dec 30	27.5	Dec 12 21:00	97.2%	96.6%	0	0
<b>Annual</b>	<b>8508</b>	<b>49.0%</b>	<b>26.8%</b>	<b>11.5%</b>	<b>5.5%</b>	<b>2.8%</b>	<b>4.4%</b>	<b>17.8</b>	<b>343.0</b>	<b>MAXIMUM VALUES</b>			<b>97.5%</b>	<b>97.1%</b>	<b>48</b>	<b>377</b>

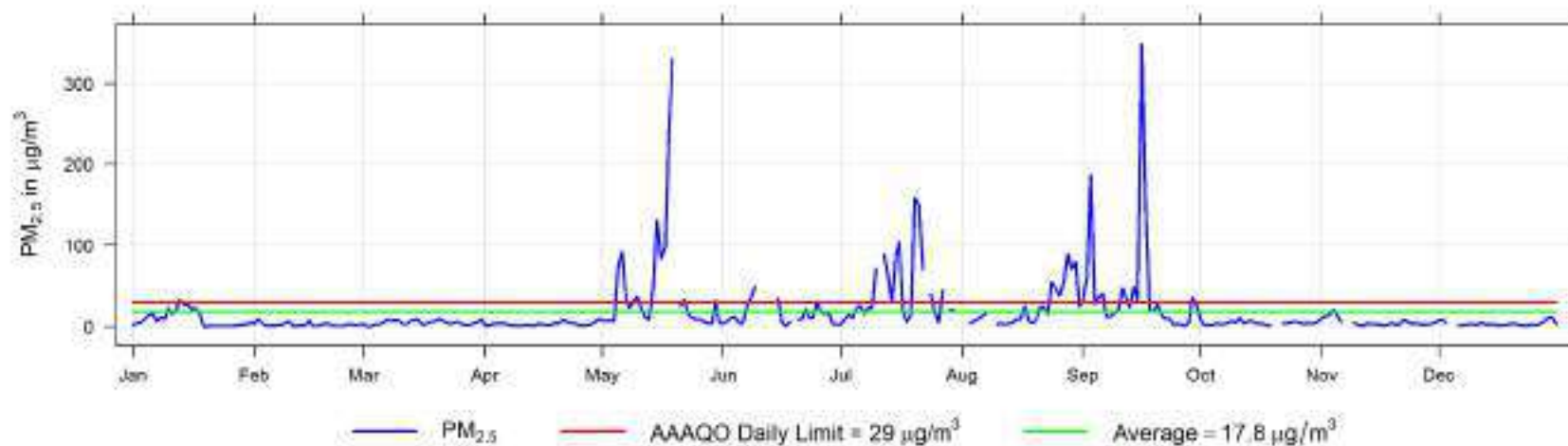
AAAQO Objectives: 24-Hr: 29 µg/m<sup>3</sup>, AAAQO Guideline: 1-Hr: 80 µg/m<sup>3</sup>

Note: correction of T640 data for Aug 09, 2023 to Dec 01, 2023 (when firmware update performed) resulted in a decrease of 1hr incidents by 1

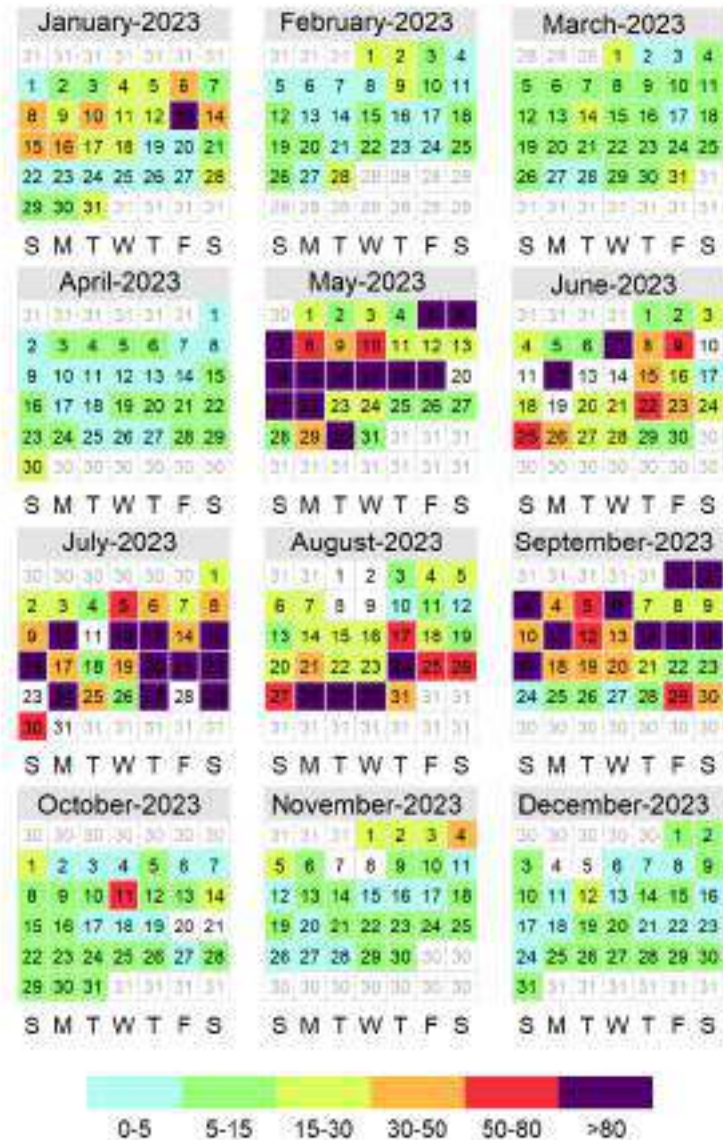
2023 Hourly Concentration Readings of PM<sub>2.5</sub> in µg/m<sup>3</sup> at Beaverlodge

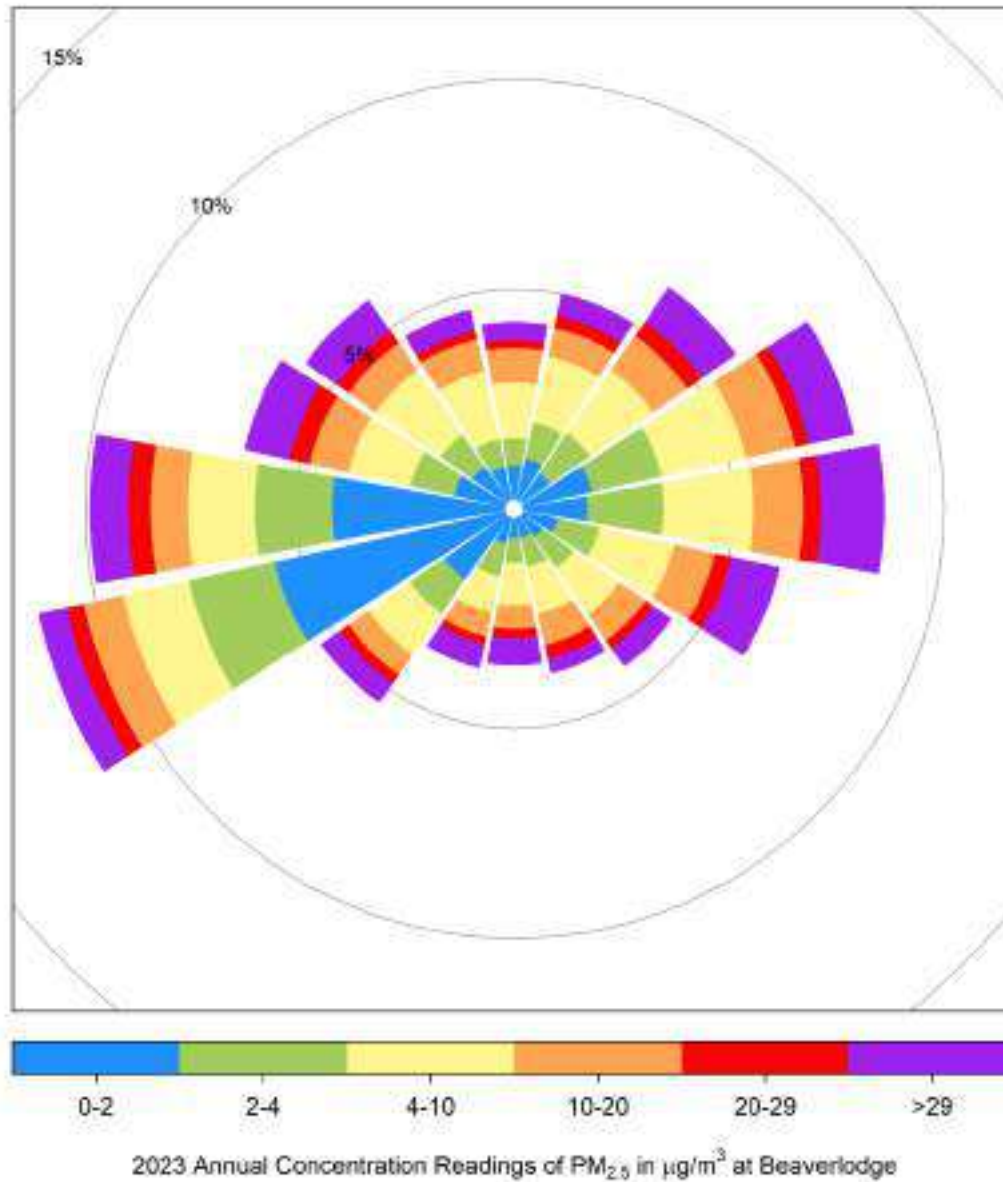


2023 Daily Concentration Readings of PM<sub>2.5</sub> in  $\mu\text{g}/\text{m}^3$  at Beaverlodge



## Hourly Maximum PM<sub>2.5</sub> (in µg/m<sup>3</sup>) for 2023 at Beaverlodge





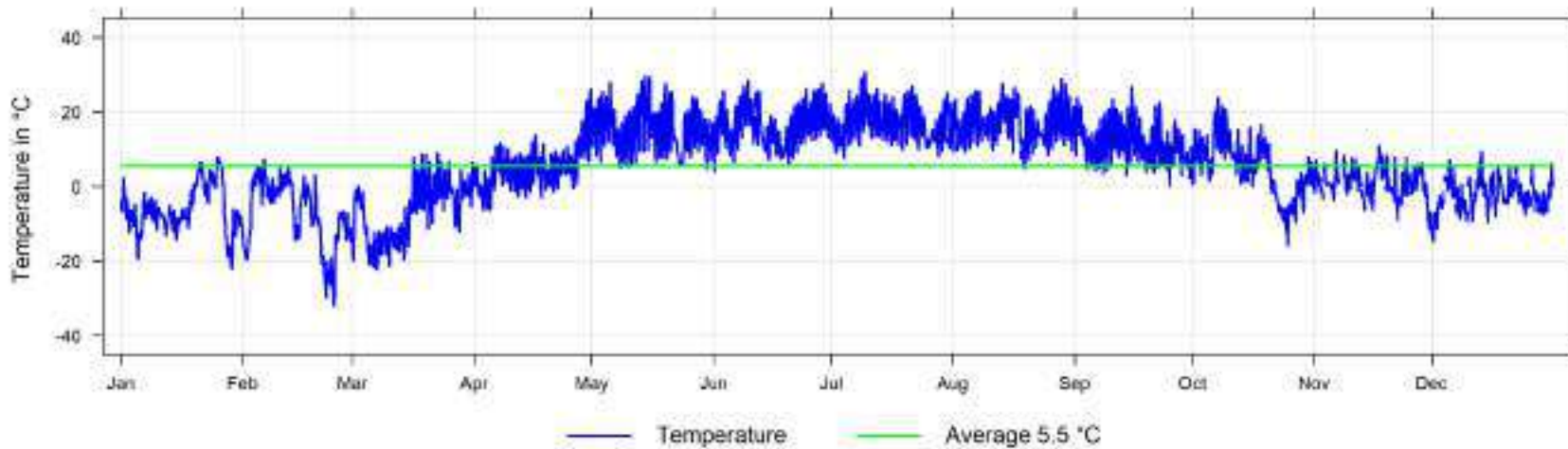


### 3.8 Temperature (ET) - Beaverlodge 2023 Summary

Temperature (ET) Frequency Distribution at Beaverlodge

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)		
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date
January 2023	744	-5.9	5.5	Jan 26	7.8	Jan 25 14:00	-17.5	Jan 28	-22.2	Jan 29 07:00	100.0%	100.0%
February 2023	672	-7.3	2.9	Feb 12	7.2	Feb 06 15:00	-25.6	Feb 22	-32.0	Feb 24 07:00	100.0%	100.0%
March 2023	744	-6.9	2.1	Mar 22	9.0	Mar 22 14:00	-18.6	Mar 05	-22.3	Mar 07 08:00	100.0%	100.0%
April 2023	720	5.1	17.7	Apr 30	26.1	Apr 30 18:00	-1.9	Apr 04	-6.4	Apr 03 08:00	100.0%	100.0%
May 2023	743	15.4	21.4	May 14	29.5	May 14 16:00	6.6	May 23	4.5	May 30 04:00	100.0%	99.9%
June 2023	718	16.2	21.4	Jun 09	28.4	Jun 09 18:00	8.6	Jun 18	3.9	Jun 01 05:00	99.7%	99.7%
July 2023	739	17.0	23.6	Jul 09	30.7	Jul 09 17:00	11.6	Jul 25	7.7	Jul 04 06:00	99.6%	99.3%
August 2023	718	16.9	21.7	Aug 13	28.8	Aug 28 16:00	10.3	Aug 18	4.7	Aug 19 04:00	96.5%	96.5%
September 2023	690	11.7	17.6	Sep 02	26.7	Sep 15 17:00	5.2	Sep 30	0.1	Sep 25 08:00	95.8%	95.8%
October 2023	707	5.1	16.5	Oct 07	23.9	Oct 07 16:00	-9.0	Oct 25	-15.9	Oct 25 08:00	95.0%	95.0%
November 2023	662	0.8	7.9	Nov 17	11.0	Nov 17 14:00	-9.7	Nov 30	-12.5	Nov 30 23:00	91.9%	91.9%
December 2023	709	-2.3	3.9	Dec 13	9.5	Dec 13 16:00	-10.7	Dec 01	-14.7	Dec 01 10:00	95.3%	95.3%
<b>8566</b>		<b>AVERAGE</b>	<b>23.6</b>	<b>MAXIMUM VALUES</b>			<b>MINIMUM VALUES</b>			<b>97.8%</b>	<b>97.8%</b>	
		<b>5.5</b>	<b>23.6</b>	<b>Jul 09</b>	<b>30.7</b>	<b>Jul 09 17:00</b>	<b>-25.6</b>	<b>Feb 22</b>	<b>-32.0</b>	<b>Feb 24 07:00</b>		

2023 Hourly Temperature Readings (in °C) at Beaverlodge

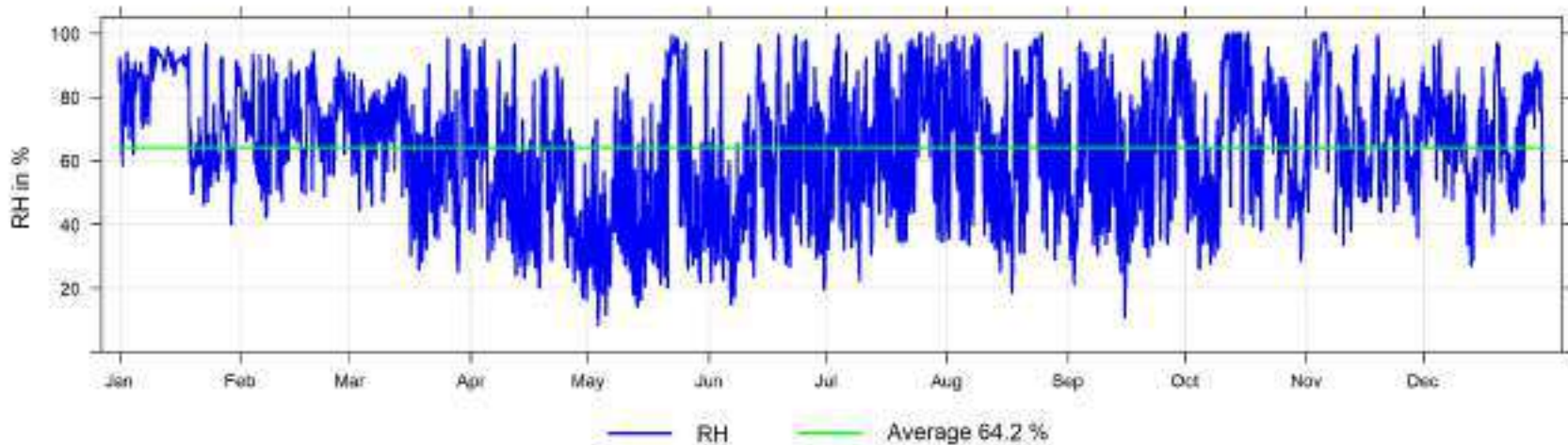


### 3.9 Relative Humidity (RH) - Beaverlodge 2023 Summary

Relative Humidity (RH) Frequency Distribution at Beaverlodge

Month	Valid Hours	Monthly Average (%)	Maximum Values		Date	Operational time (%)	Valid time (%)		
			24-hr (%)	1-hr (%)					
January 2023	744	78.0	94.2	Jan 13	96.7	Jan 23 04:00	100.0%	100.0%	
February 2023	672	71.8	85.4	Feb 26	94.5	Feb 19 21:00	100.0%	100.0%	
March 2023	744	65.4	82.1	Mar 13	98.3	Mar 26 07:00	100.0%	100.0%	
April 2023	720	52.9	79.3	Apr 04	98.0	Apr 04 10:00	100.0%	100.0%	
May 2023	743	48.7	95.6	May 23	99.4	May 22 16:00	100.0%	99.9%	
June 2023	718	54.8	79.9	Jun 13	99.6	Jun 18 23:00	99.7%	99.7%	
July 2023	739	66.9	89.5	Jul 25	99.9	Jul 25 00:00	99.6%	99.3%	
August 2023	741	65.3	95.2	Aug 23	99.9	Aug 25 07:00	99.6%	99.6%	
September 2023	720	62.8	92.6	Sep 30	99.9	Sep 30 09:00	100.0%	100.0%	
October 2023	741	65.9	95.3	Oct 11	99.9	Oct 01 05:00	99.6%	99.6%	
November 2023	694	69.5	99.5	Nov 05	99.9	Nov 05 05:00	96.4%	96.4%	
December 2023	744	69.0	86.7	Dec 30	98.0	Dec 05 10:00	100.0%	100.0%	
		<b>AVERAGE</b>	<b>MAXIMUM VALUES</b>						
		<b>8720</b>	<b>64.2</b>	<b>99.5</b>	<b>Nov 05</b>	<b>99.9</b>	<b>Jul 25 00:00</b>	<b>99.6%</b>	<b>99.5%</b>

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

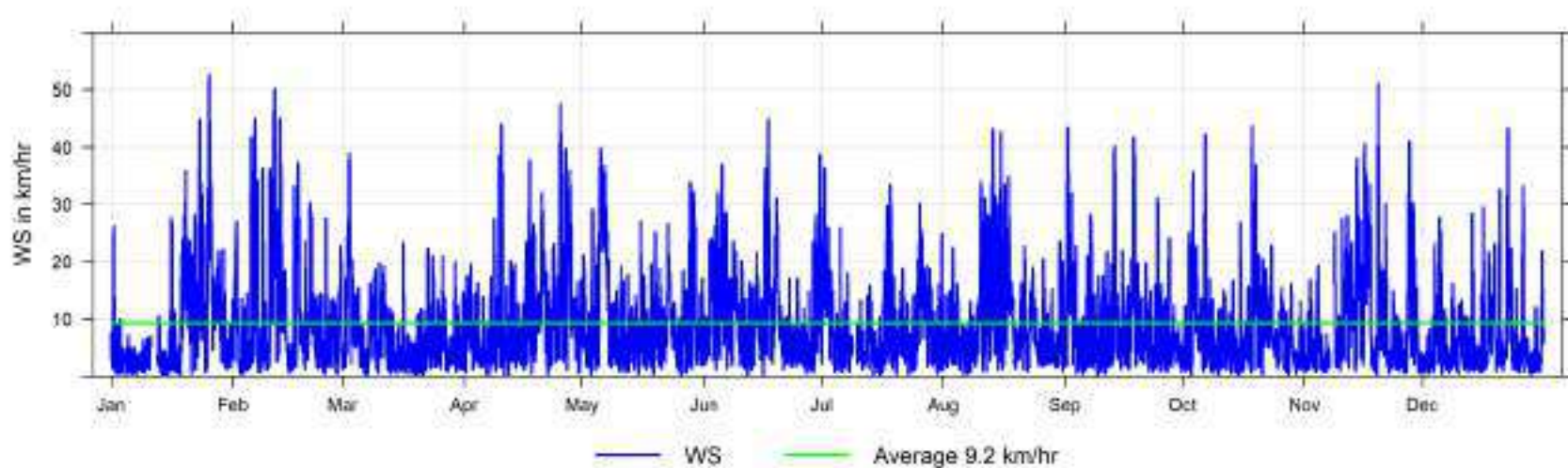


### 3.10 Wind Speed and Wind Direction (WS and WD) - Beaverlodge 2023 Summary

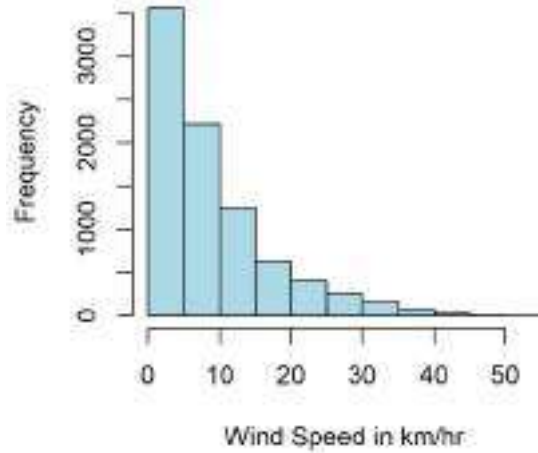
#### Wind Speed Frequency Distribution at Beaverlodge

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (km/hr)	24-hr (km/hr)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
		Calm	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)			Date	1-hr (km/hr)	Date		
January 2023	707	2.4%	51.3%	18.1%	15.3%	8.2%	4.7%	8.5	24.5	Jan 23	52.7	Jan 25 22:00	95.0%	95.0%
February 2023	672	0.7%	36.8%	26.6%	16.1%	9.5%	10.3%	11.3	29.1	Feb 11	50.1	Feb 11 16:00	100.0%	100.0%
March 2023	744	1.6%	50.3%	28.0%	15.3%	3.4%	1.5%	6.8	26.8	Mar 02	38.9	Mar 02 14:00	100.0%	100.0%
April 2023	720	1.0%	33.1%	30.0%	20.0%	8.5%	7.5%	10.8	25.9	Apr 25	47.6	Apr 25 11:00	100.0%	100.0%
May 2023	743	0.5%	29.1%	37.4%	18.3%	9.4%	5.2%	10.3	29.4	May 06	39.9	May 05 16:00	100.0%	99.9%
June 2023	718	0.4%	25.3%	36.6%	22.1%	10.9%	4.6%	10.8	21.2	Jun 17	44.9	Jun 17 11:00	99.7%	99.7%
July 2023	689	0.7%	34.3%	35.0%	21.6%	6.7%	1.7%	8.8	18.5	Jul 26	36.4	Jul 01 18:00	92.9%	92.6%
August 2023	741	0.4%	35.6%	32.4%	17.4%	9.2%	5.0%	9.8	22.0	Aug 13	43.1	Aug 13 16:00	99.6%	99.6%
September 2023	720	0.8%	41.9%	29.4%	17.5%	5.8%	4.4%	8.9	24.9	Sep 18	43.4	Sep 01 16:00	100.0%	100.0%
October 2023	740	1.4%	42.3%	32.4%	14.6%	6.2%	3.1%	8.2	19.9	Oct 19	43.7	Oct 18 15:00	99.5%	99.5%
November 2023	694	0.9%	42.9%	23.3%	16.3%	10.5%	6.1%	9.9	23.8	Nov 16	50.9	Nov 19 17:00	96.4%	96.4%
December 2023	744	0.9%	57.9%	24.7%	9.1%	5.4%	1.9%	6.6	16.9	Dec 22	43.2	Dec 22 19:00	100.0%	100.0%
<b>Annual</b>	<b>8632</b>	<b>1.0%</b>	<b>40.1%</b>	<b>29.5%</b>	<b>17.0%</b>	<b>7.8%</b>	<b>4.7%</b>	<b>9.2</b>	<b>29.4</b>	<b>MAXIMUM VALUES</b>			<b>98.6%</b>	<b>98.6%</b>

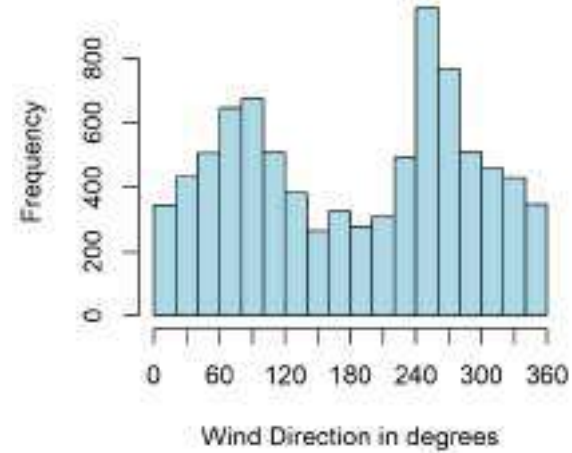
2023 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge



**2023 Wind Speed Histogram**

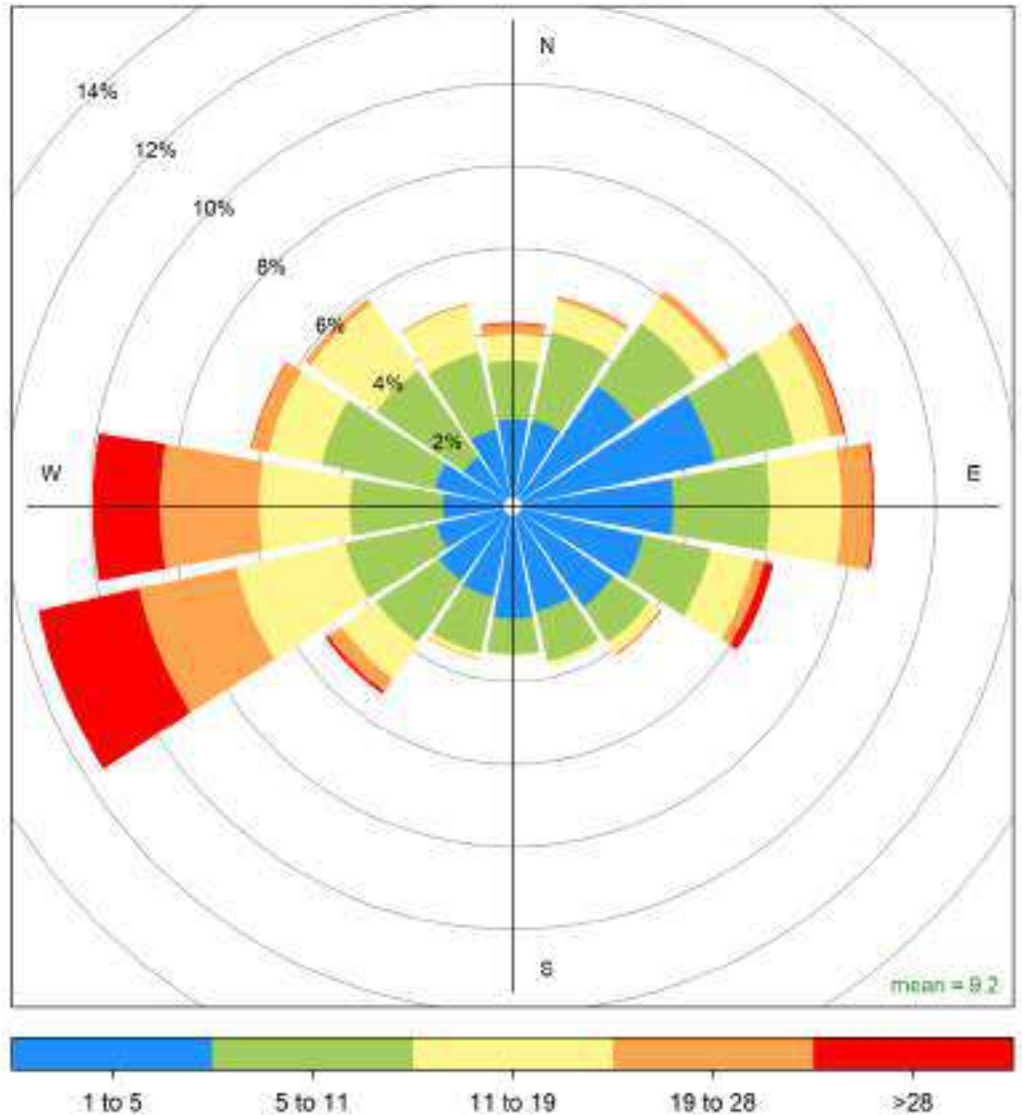


**2023 Wind Direction Histogram**



**Wind Speed and Wind Direction Frequency Distribution at Beaverlodge**

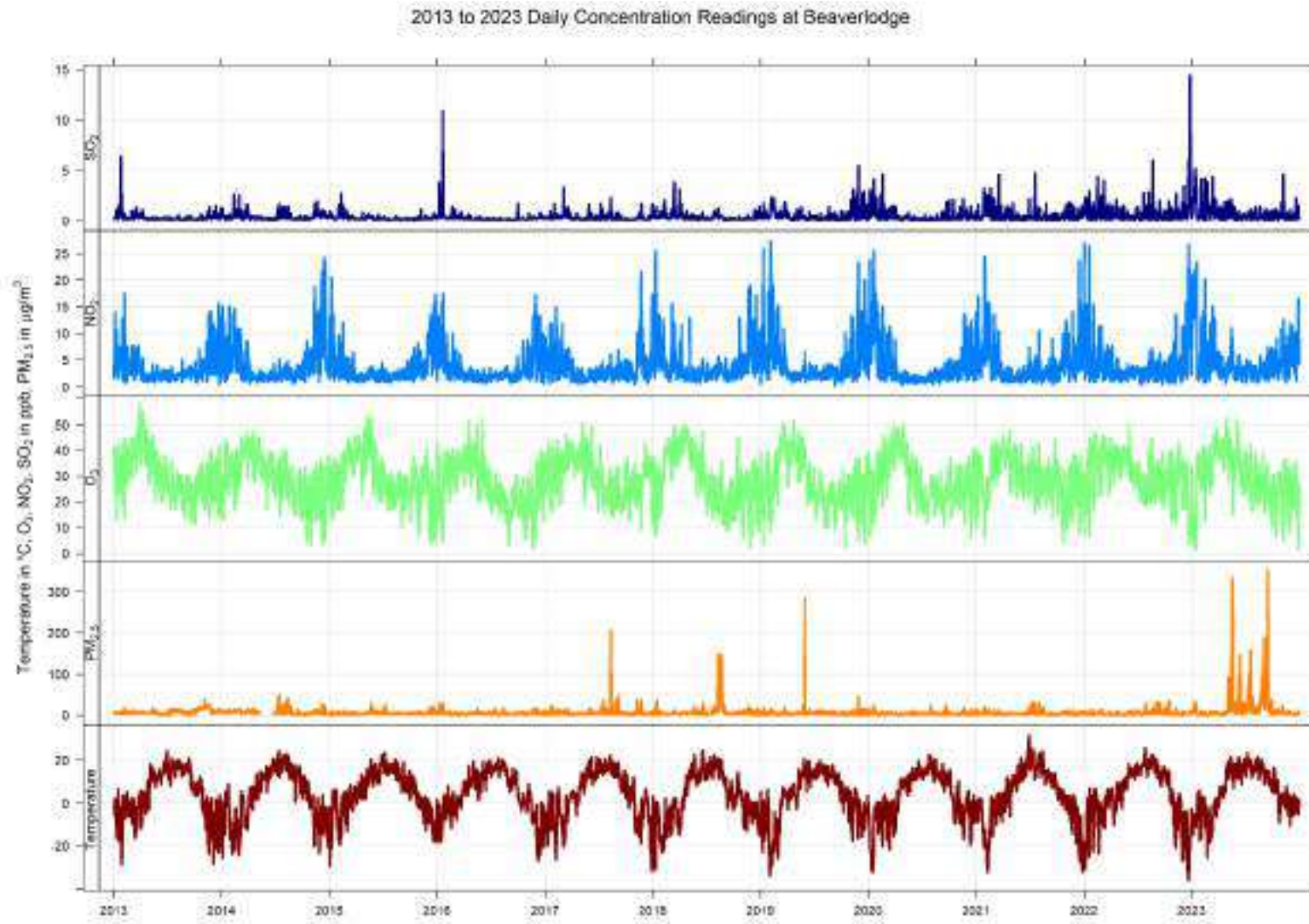
Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	377	0.0%	2.0%	1.4%	0.6%	0.3%	0.0%	4.4%
NNE	445	0.0%	2.1%	2.2%	0.8%	0.1%	0.0%	5.2%
NE	550	0.0%	3.5%	1.8%	0.8%	0.2%	0.0%	6.4%
ENE	710	0.0%	4.9%	2.0%	0.9%	0.3%	0.0%	8.2%
E	756	0.1%	3.8%	2.3%	1.7%	0.7%	0.1%	8.8%
ESE	551	0.0%	3.1%	1.7%	1.1%	0.3%	0.2%	6.4%
SE	386	0.1%	3.0%	1.1%	0.3%	0.0%	0.0%	4.5%
SSE	342	0.1%	2.5%	1.2%	0.1%	0.0%	0.0%	4.0%
S	314	0.1%	2.6%	0.9%	0.0%	0.0%	0.0%	3.6%
SSW	329	0.1%	2.2%	1.4%	0.1%	0.0%	0.0%	3.8%
SW	477	0.1%	2.1%	1.8%	1.0%	0.4%	0.1%	5.5%
WSW	1015	0.1%	1.8%	2.3%	2.7%	2.4%	2.5%	11.8%
W	867	0.0%	1.6%	2.2%	2.2%	2.4%	1.6%	10.0%
WNW	568	0.1%	1.9%	2.8%	1.3%	0.4%	0.0%	6.6%
NW	523	0.1%	1.3%	2.5%	2.0%	0.2%	0.0%	6.1%
NNW	423	0.0%	1.8%	1.9%	1.2%	0.1%	0.0%	4.9%
<b>Total</b>	<b>8633</b>	<b>1.0%</b>	<b>40.1%</b>	<b>29.5%</b>	<b>16.9%</b>	<b>7.8%</b>	<b>4.6%</b>	<b>100.0%</b>



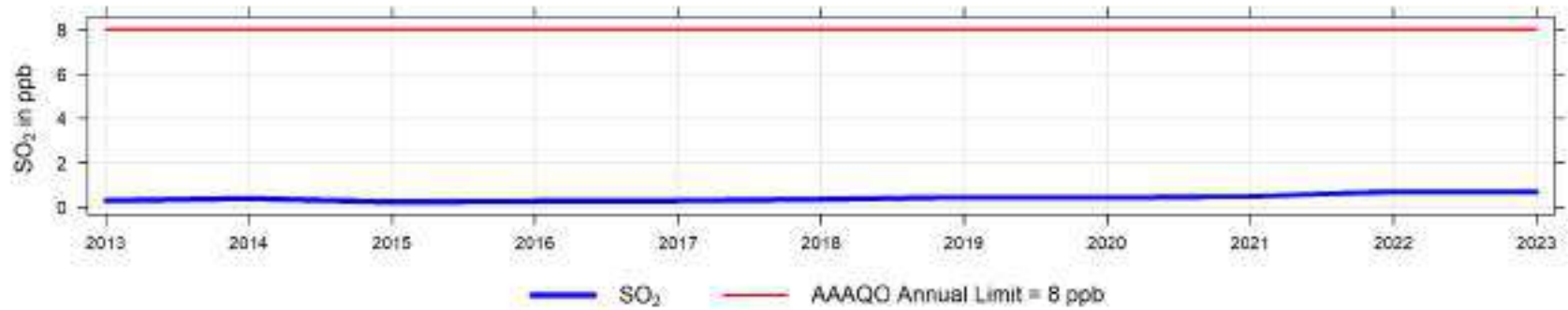
Beaverlodge 2023 Wind Rose, wind speed in km/hr  
**Calms (<1km/hr) = 3.3 %**

### 3.11 Beaverlodge Annual Trends, 2013 to 2023

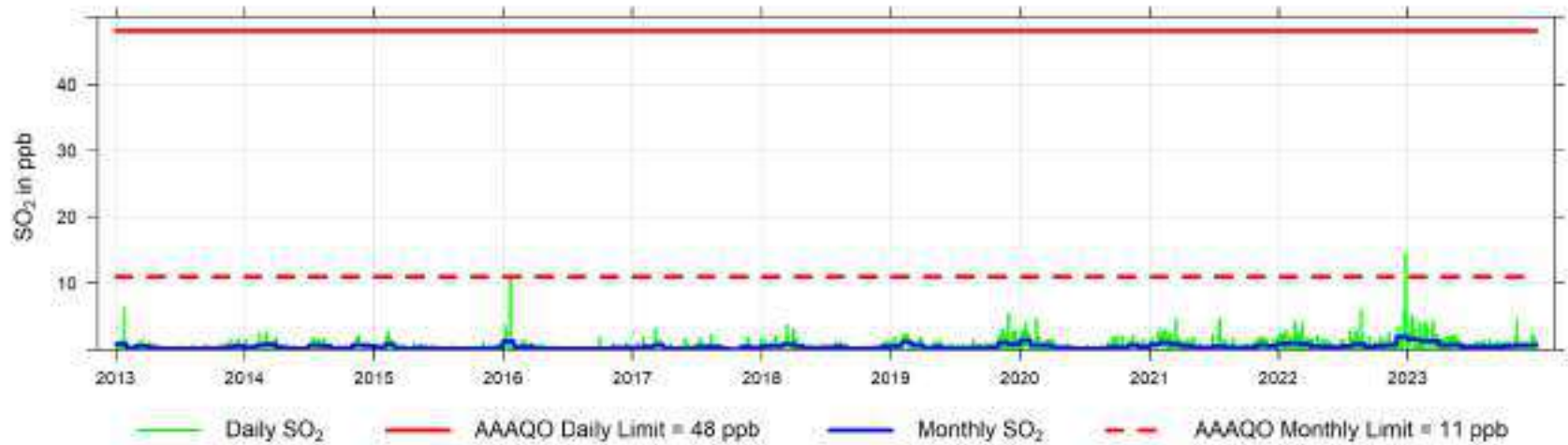
The following pages include historical annual charts collected between 2013 and 2023 at the Beaverlodge Station.



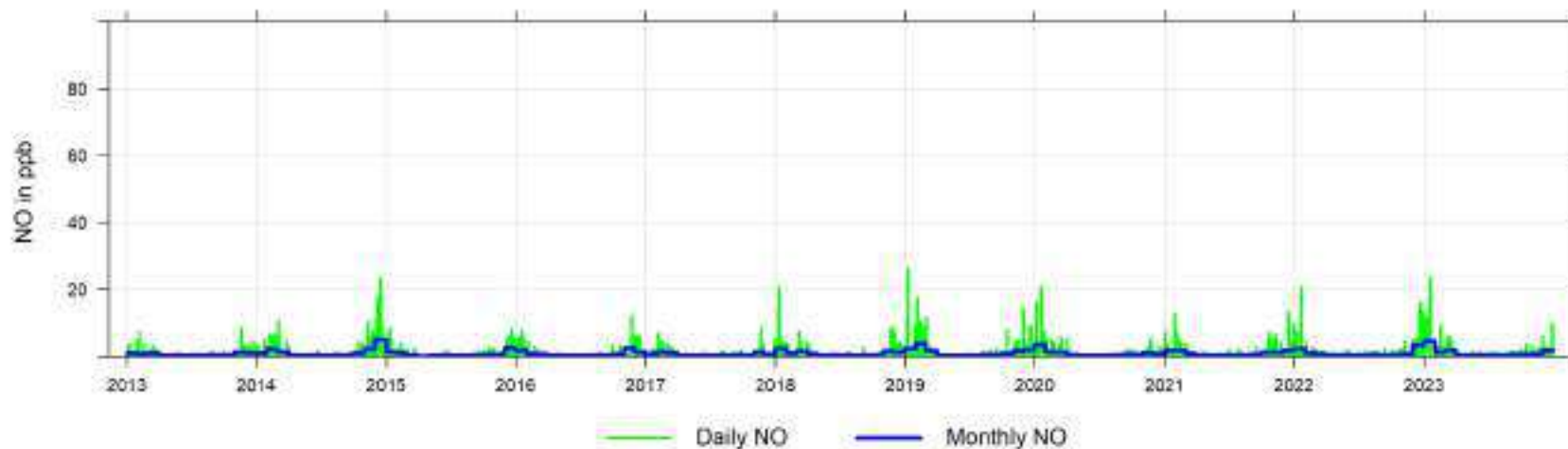
Years 2013 to 2023 Annual Concentration Readings of SO<sub>2</sub> (in ppb) at Beaverlodge



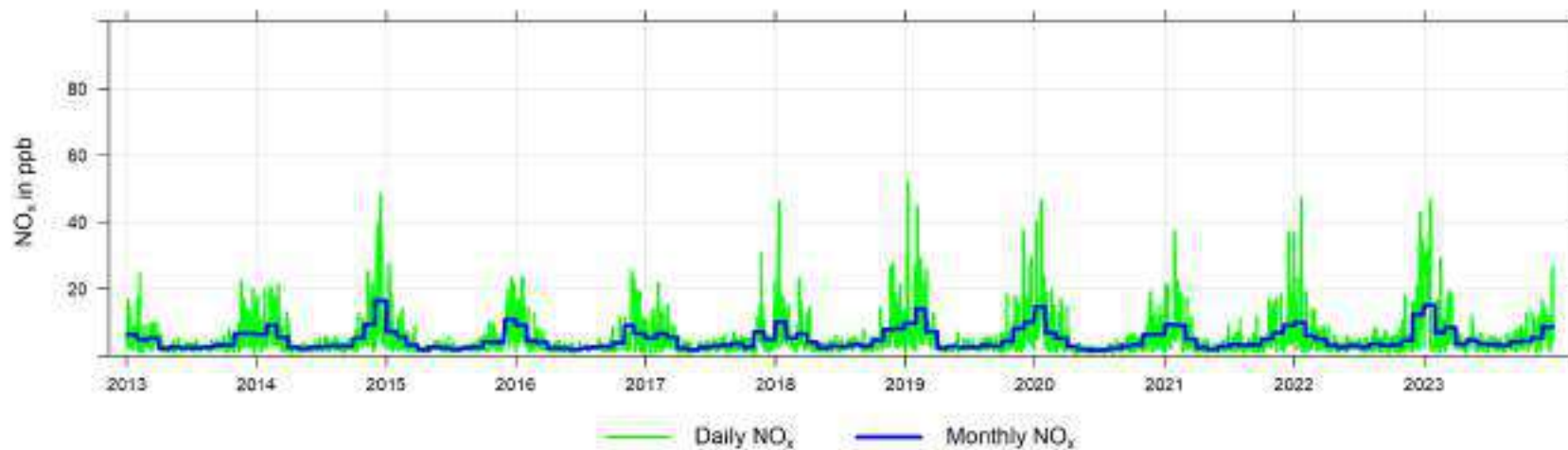
Years 2013 to 2023 Concentration Readings of SO<sub>2</sub> (in ppb) at Beaverlodge



Years 2013 to 2023 Concentration Readings of NO (in ppb) at Beaverlodge

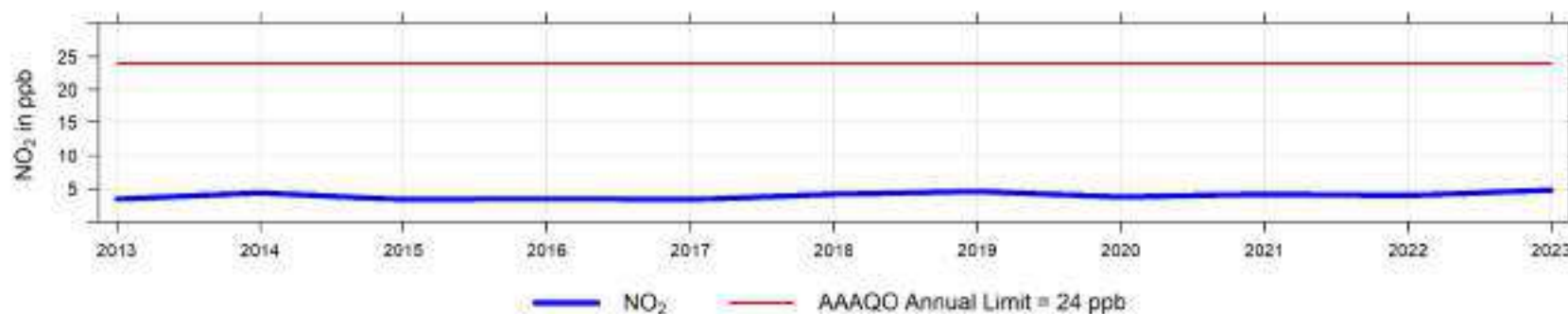


Years 2013 to 2023 Concentration Readings of NO<sub>x</sub> (in ppb) at Beaverlodge

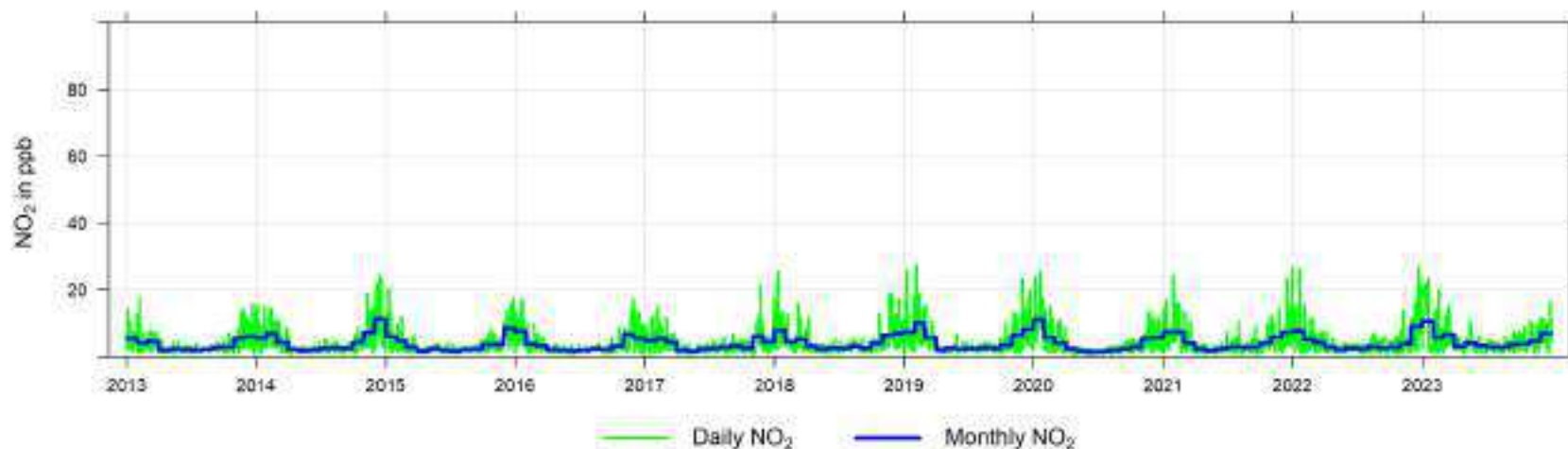




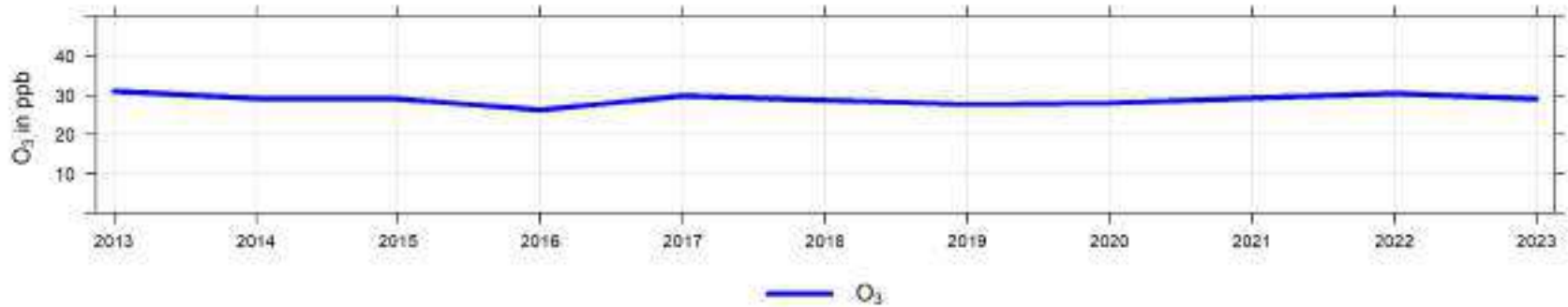
Years 2013 to 2023 Annual Concentration Readings of NO<sub>2</sub> (in ppb) at Beaverlodge



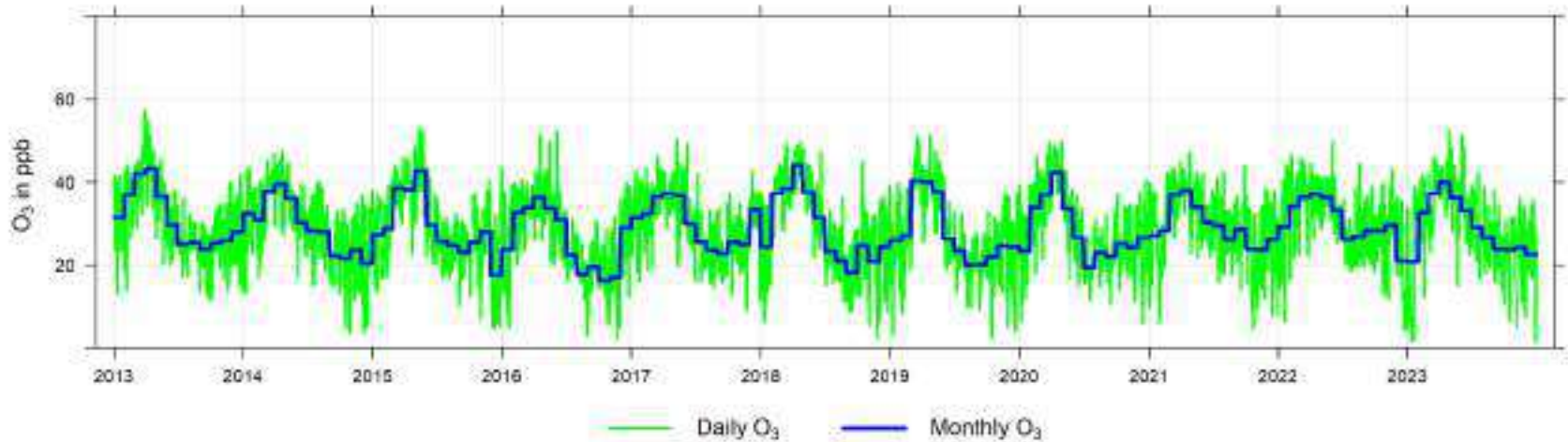
Years 2013 to 2023 Concentration Readings of NO<sub>2</sub> (in ppb) at Beaverlodge



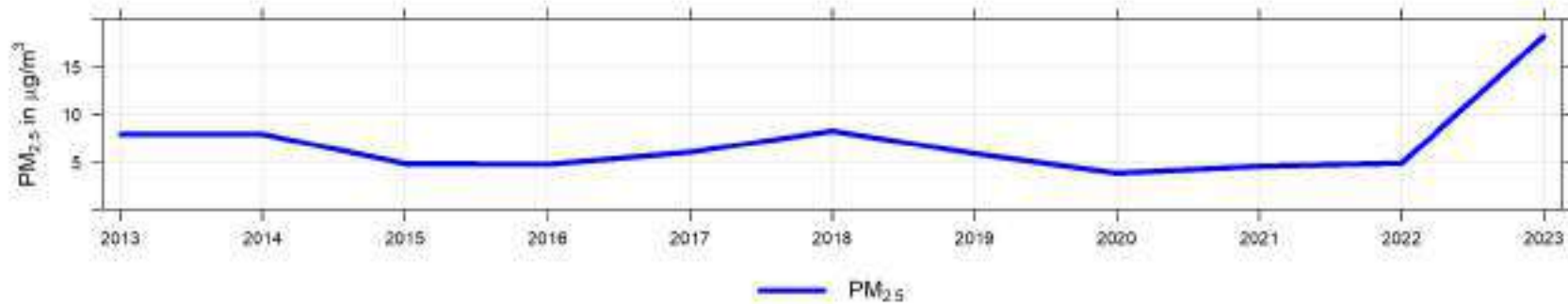
Years 2013 to 2023 Annual Concentration Readings of O<sub>3</sub> (in ppb) at Beaverlodge



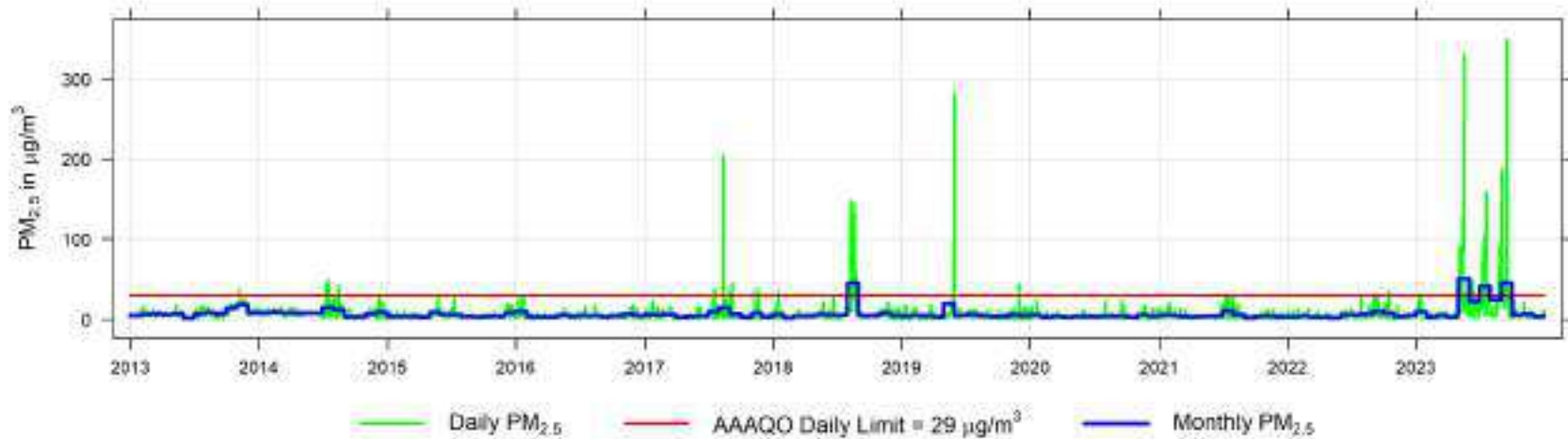
Years 2013 to 2023 Concentration Readings of O<sub>3</sub> (in ppb) at Beaverlodge



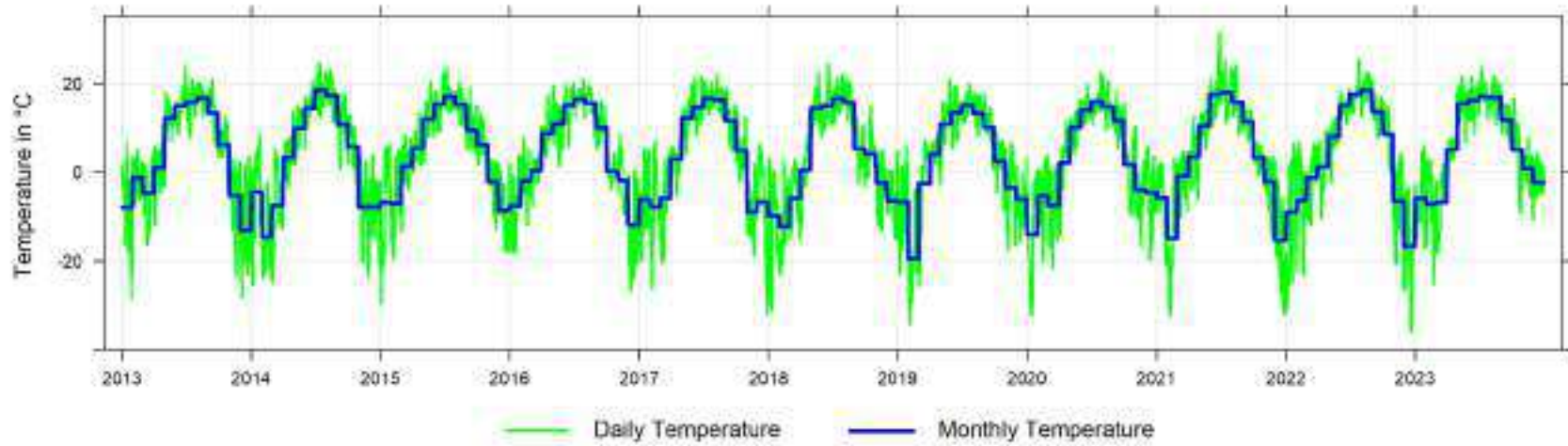
2013 to 2023 Annual Concentration Readings of PM<sub>2.5</sub> in  $\mu\text{g}/\text{m}^3$  at Beaverlodge



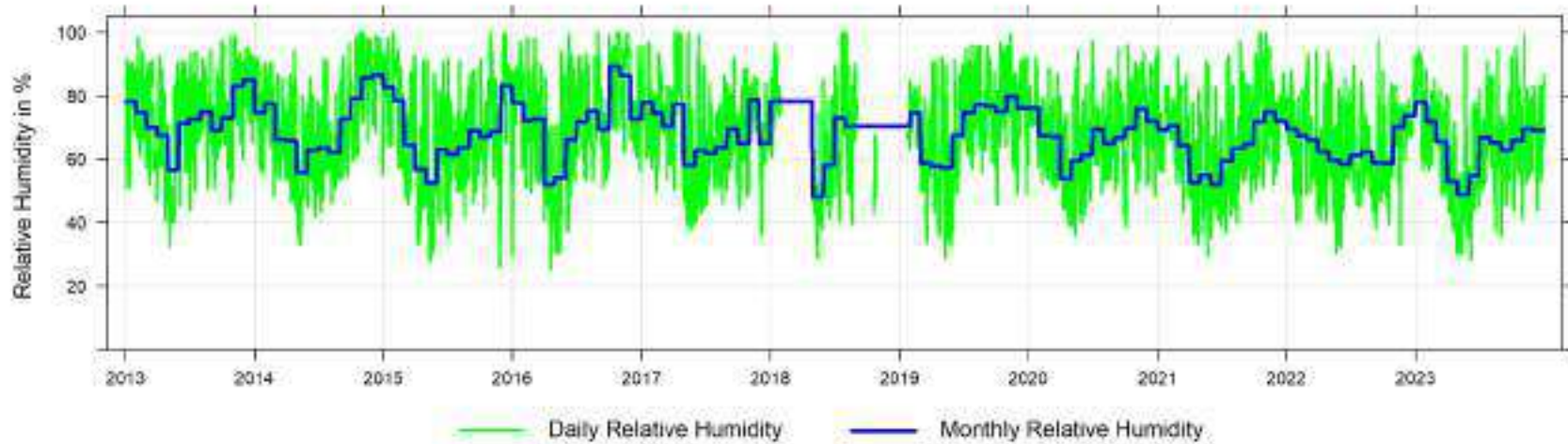
Years 2013 to 2023 Concentration Readings of PM<sub>2.5</sub> in  $\mu\text{g}/\text{m}^3$  at Beaverlodge



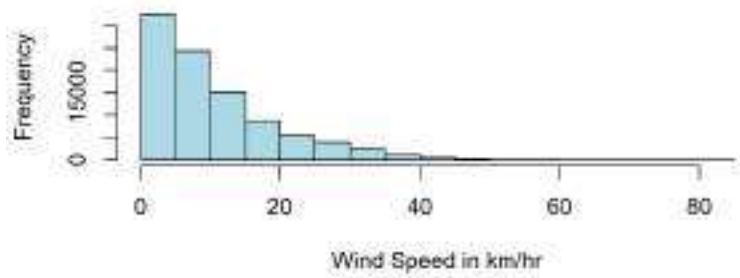
Years 2013 to 2023 Temperature Readings (in °C) at Beaverlodge



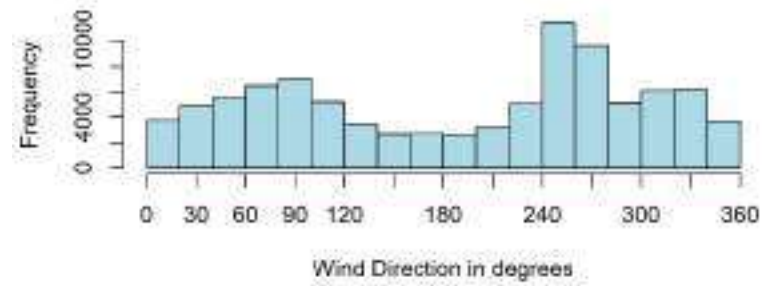
Years 2013 to 2023 Relative Humidity Readings (in %) at Beaverlodge



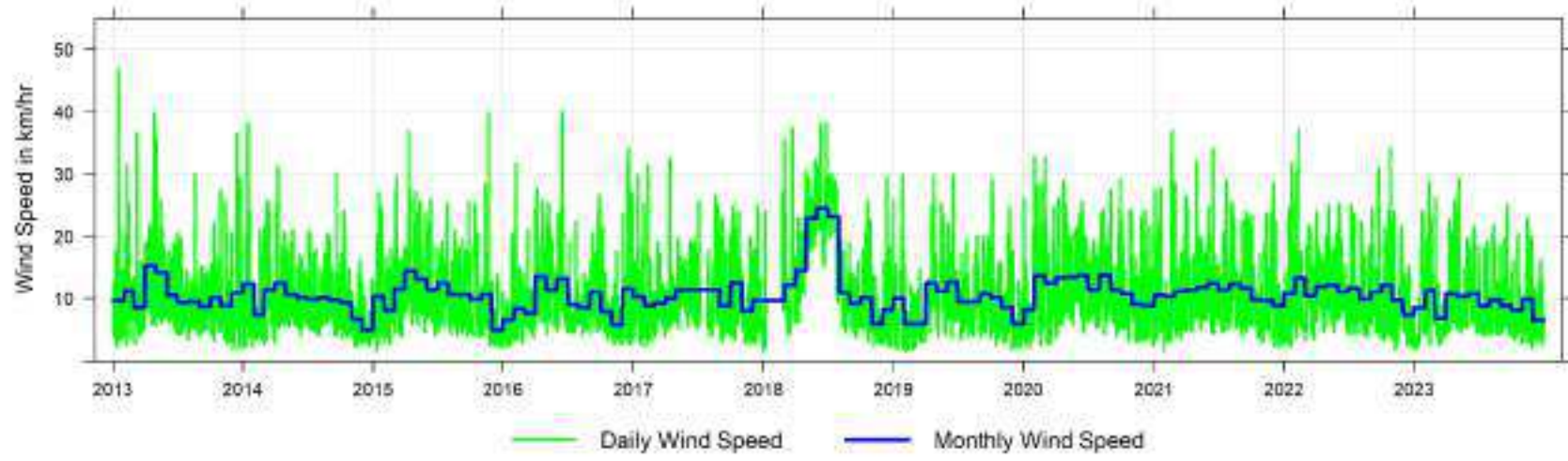
Years 2013 to 2023 Wind Speed Histogram

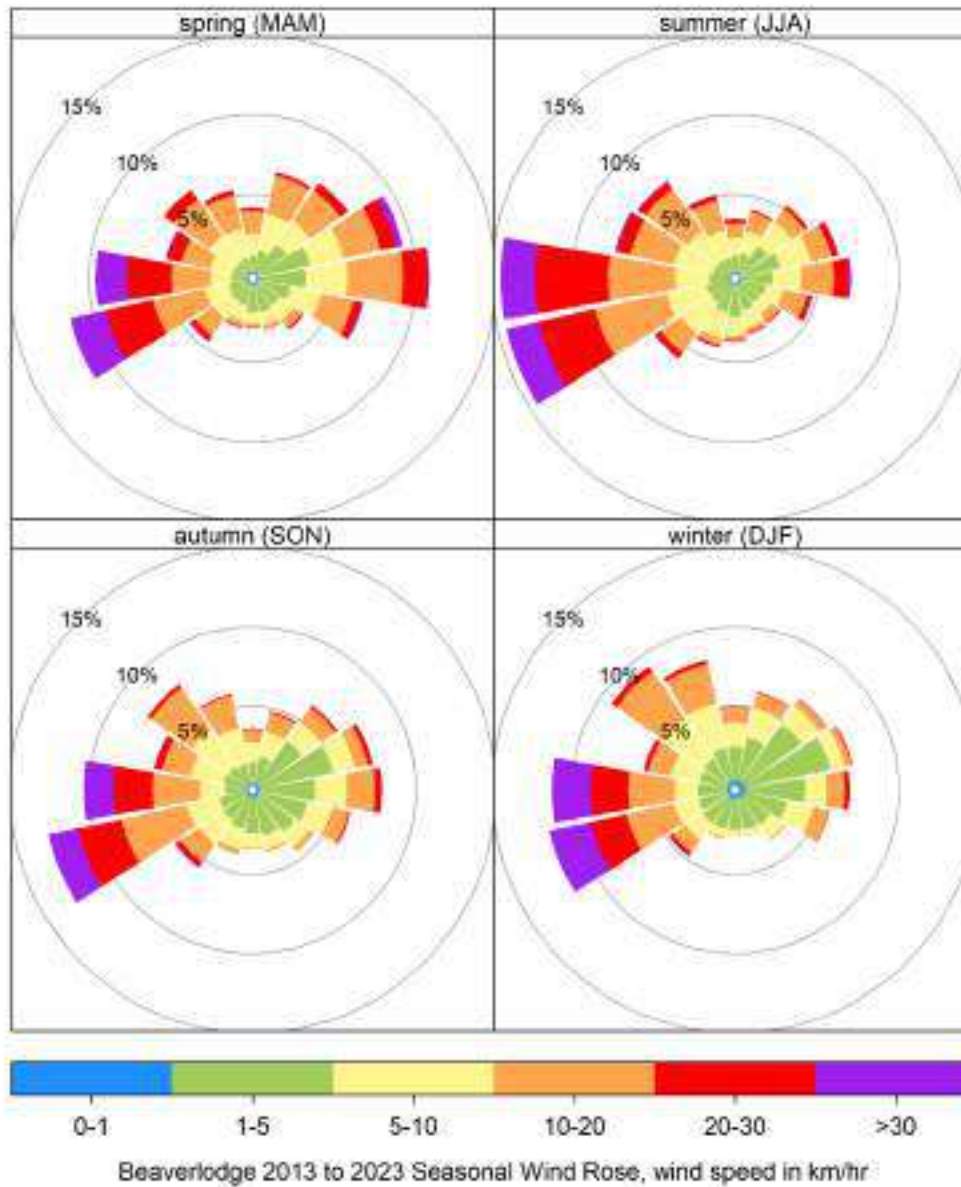


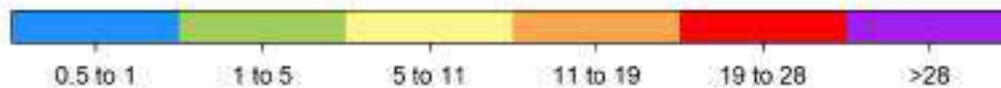
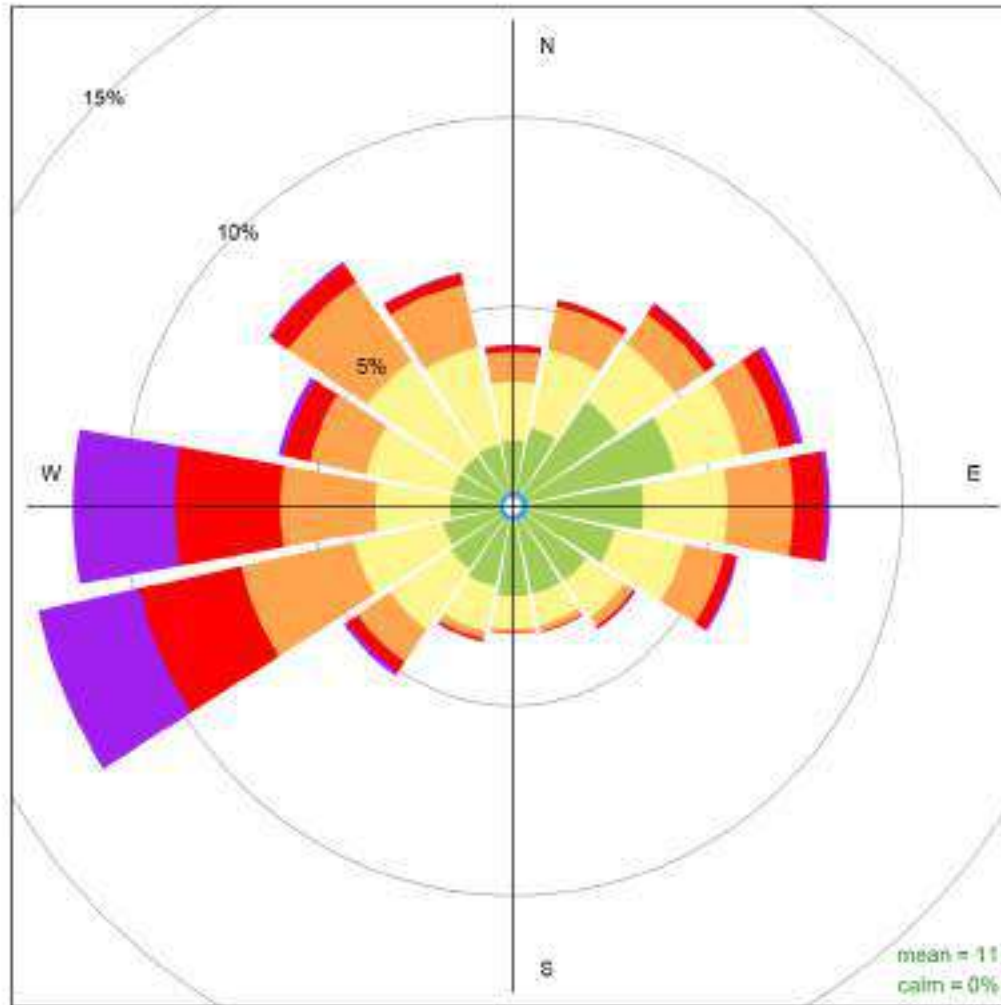
Years 2013 to 2023 Wind Direction Histogram



Years 2013 to 2023 Wind Speed Readings (in km/hr) at Beaverlodge







Beaverlodge 2013 to 2023 Wind Rose, wind speed in km/hr  
**Frequency of counts by wind direction (%)**

#### 4 Donnelly Key Parameters - Continuous Monitoring Data - 2023 Summary

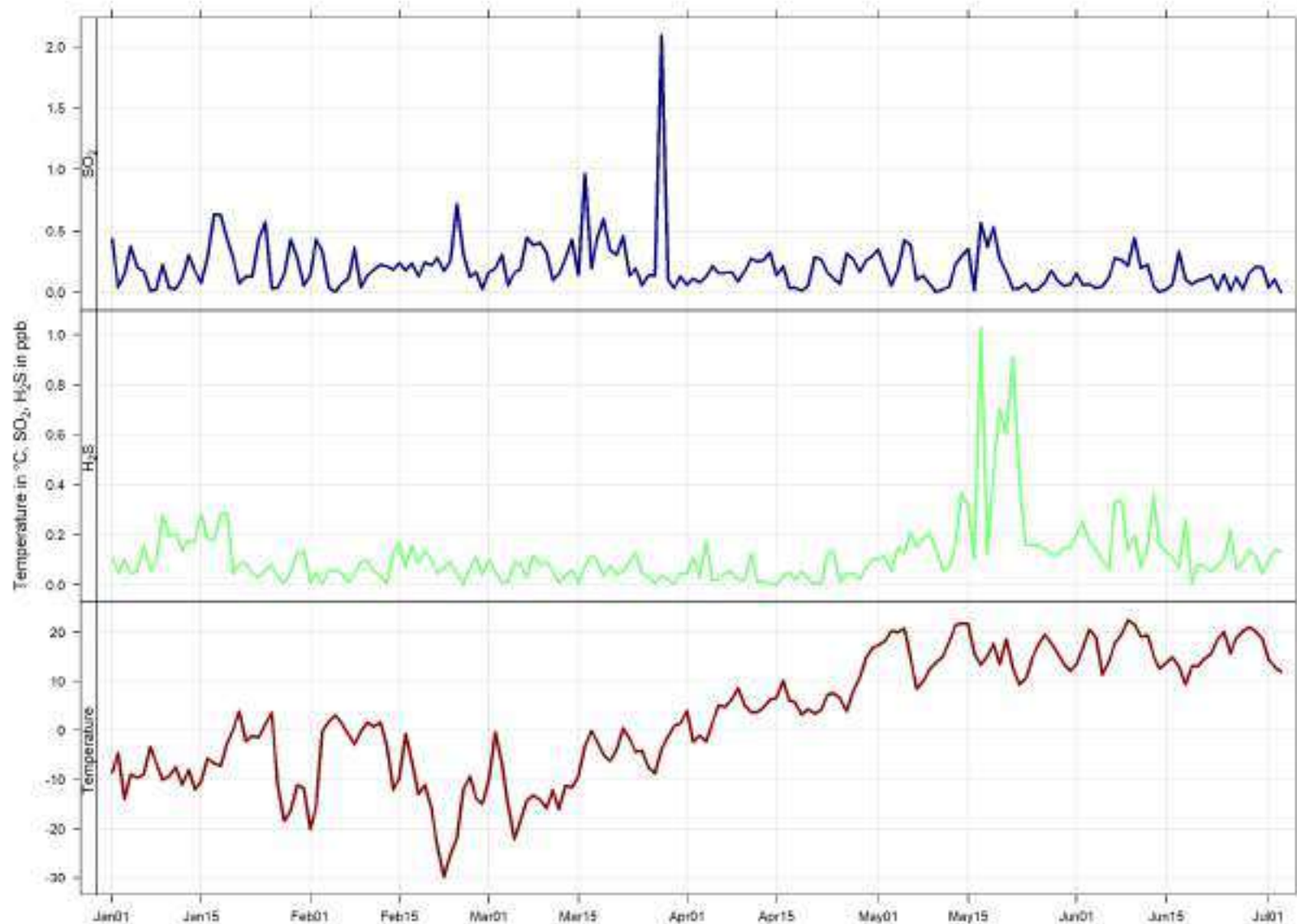
Donnelly Key Parameters - Continuous Monitoring Data - 2023 Summary

Donnelly Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr			Date	1-hr	24-hr	30-d	Annual
			Sulphur Dioxide SO <sub>2</sub> measured in ppb	2.1	Mar 28			7.9	Mar 28 10:00	49.1%	46.8%	0
Hydrogen Sulphide H <sub>2</sub> S measured in ppb	1.0	May 17	3.8	May 17 08:00	49.2%	46.9%	0	0	-	-		

Note station was decommissioned in July 2023, Annual averages not valid, <75% of year



2023 Daily Concentration Readings at Donnelly



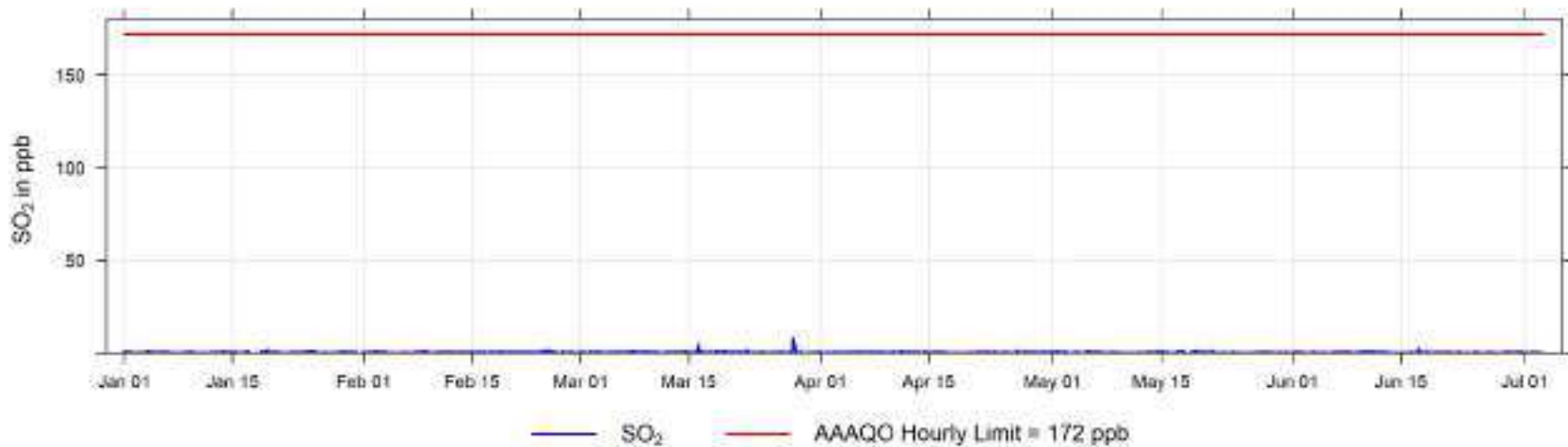
## 4.1 Sulphur Dioxide (SO<sub>2</sub>) - Donnelly 2023 Summary

### Sulphur Dioxide (SO<sub>2</sub>) Frequency Distribution at Donnelly

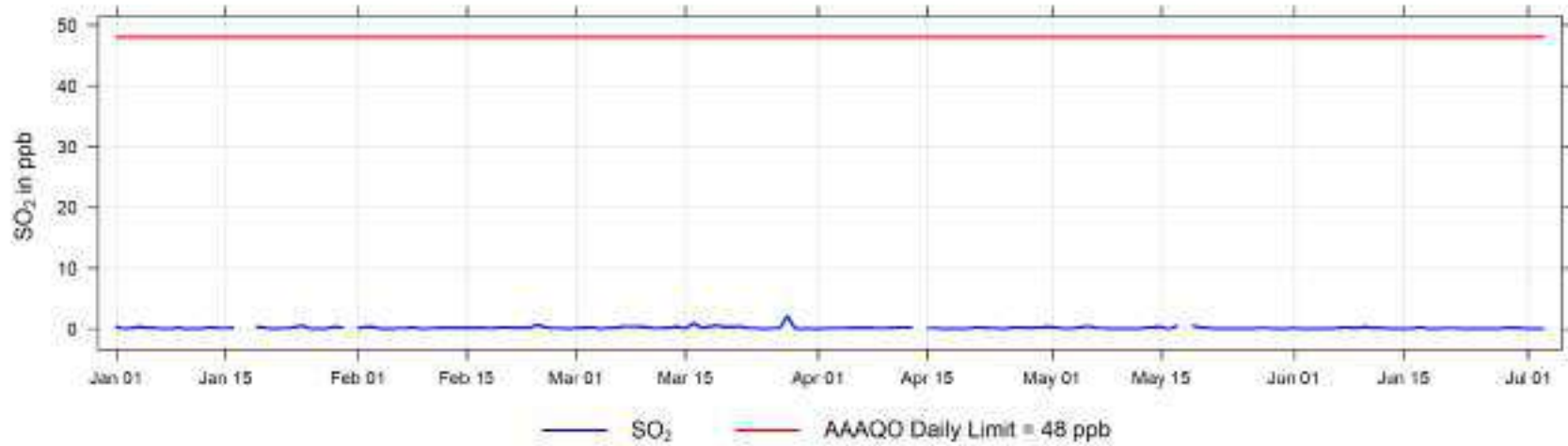
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2023	659	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	Jan 25	1.7	Jan 19 14:00	93.2%	88.6%	0	0	0
February 2023	639	99.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.2	0.7	Feb 24	1.4	Feb 24 22:00	99.7%	95.1%	0	0	0
March 2023	709	97.0%	2.5%	0.4%	0.0%	0.0%	0.0%	0.3	2.1	Mar 28	7.9	Mar 28 10:00	100.0%	95.3%	0	0	0
April 2023	679	99.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.2	0.3	Apr 26	1.3	Apr 26 08:00	98.8%	94.3%	0	0	0
May 2023	697	99.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	May 17	1.2	May 21 19:00	98.4%	93.7%	0	0	0
June 2023	678	99.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.1	0.4	Jun 10	1.9	Jun 17 05:00	98.6%	94.2%	0	0	0
July 2023																	
August 2023																	
September 2023																	
October 2023																	
November 2023																	
December 2023																	
<b>Annual</b>	<b>4061</b>	<b>98.9%</b>	<b>1.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>		<b>2.1</b>	<b>MAXIMUM VALUES</b>				<b>0</b>	<b>0</b>	<b>0</b>	

AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

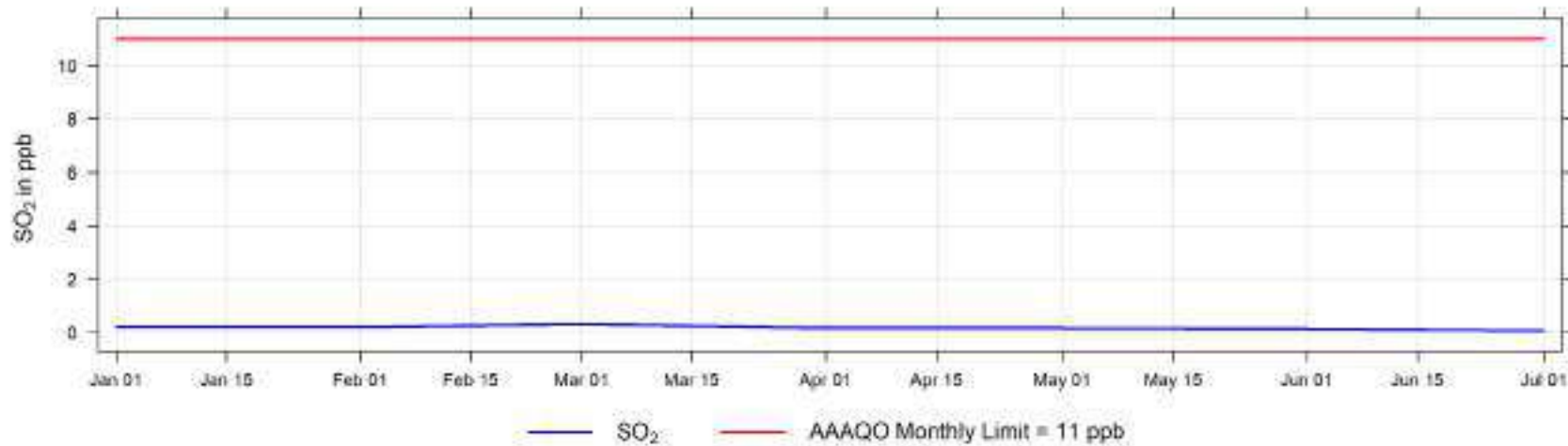
2023 Hourly Concentration Readings of SO<sub>2</sub> (in ppb) at Donnelly



2023 Daily Concentration Readings of SO<sub>2</sub> (in ppb) at Donnelly

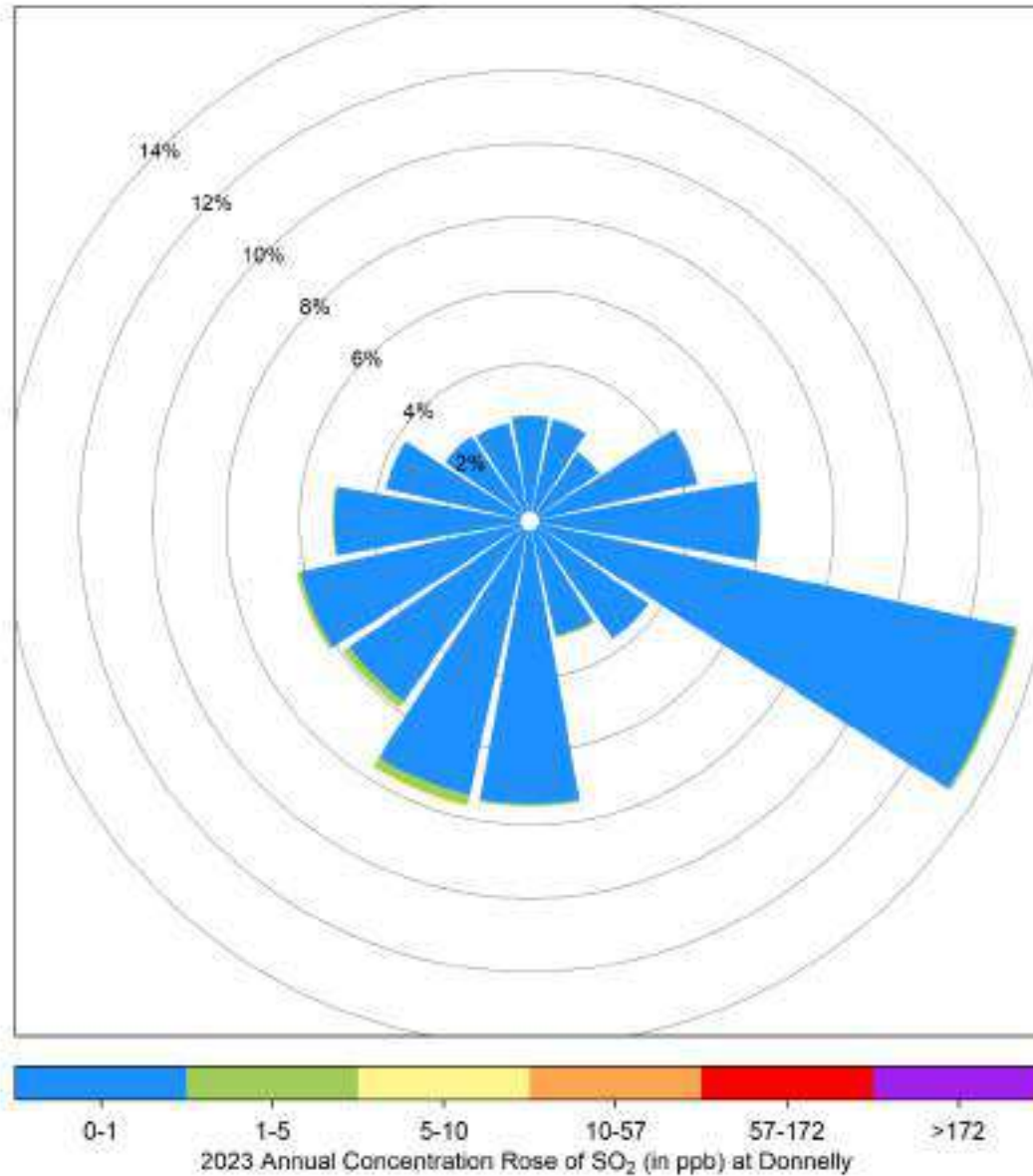


2023 Monthly Concentration Readings of SO<sub>2</sub> (in ppb) at Donnelly



### Hourly Maximum SO<sub>2</sub> (in ppb) for 2023 at Donnelly





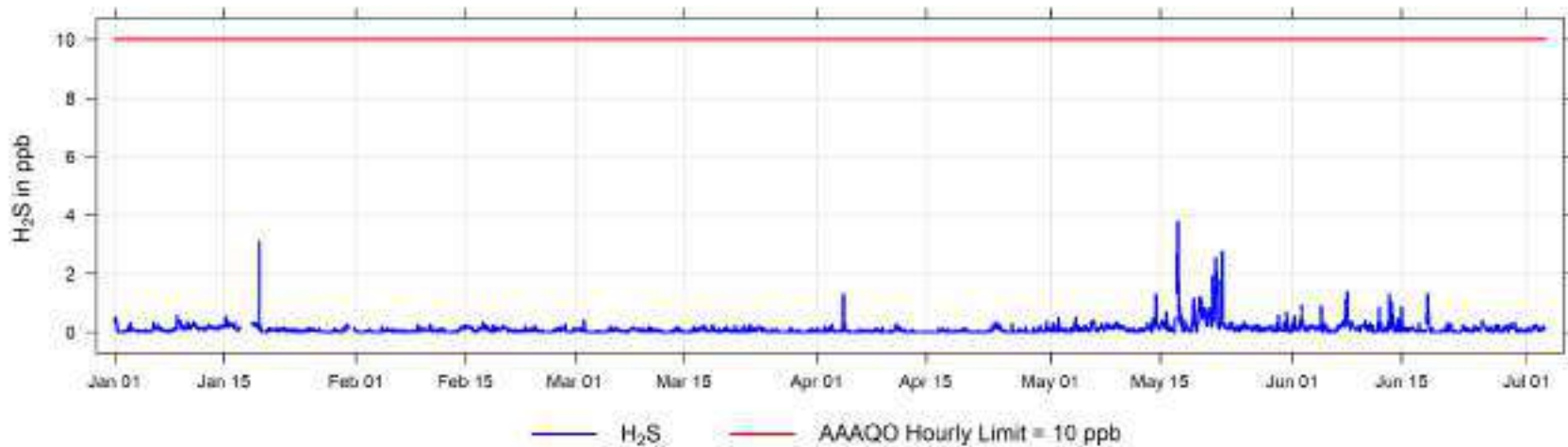
## 4.2 Hydrogen Sulphide (H<sub>2</sub>S) - Donnelly 2023 Summary

### Hydrogen Sulphide (H<sub>2</sub>S) Frequency Distribution at Donnelly

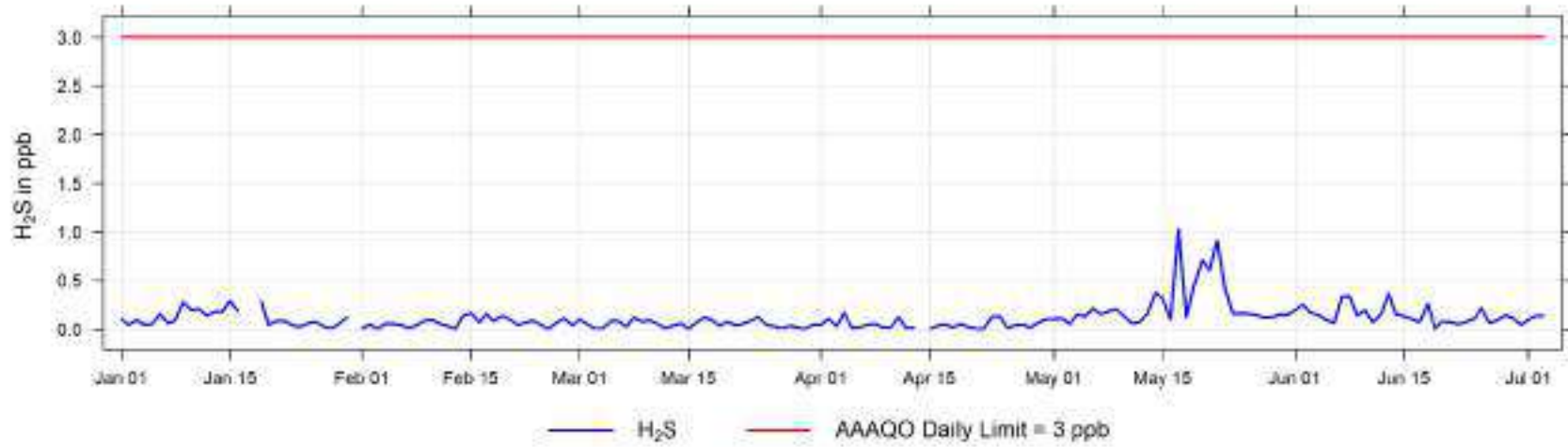
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 3 (ppb)	3 to 5 (ppb)	5 to 8 (ppb)	8 to 10 (ppb)	> 10 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			24-hr 3 ppb	1-hr 10 ppb	
January 2023	659	99.8%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1	0.3	Jan 15	3.1	Jan 19 14:00	93.2%	88.6%	0	0	
February 2023	639	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	Feb 15	0.3	Feb 17 04:00	99.7%	95.1%	0	0	
March 2023	708	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.1	Mar 24	0.4	Mar 02 06:00	100.0%	95.2%	0	0	
April 2023	679	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0	0.2	Apr 04	1.3	Apr 04 10:00	98.8%	94.3%	0	0	
May 2023	708	96.0%	3.7%	0.3%	0.0%	0.0%	0.0%	0.3	1.0	May 17	3.8	May 17 08:00	100.0%	95.2%	0	0	
June 2023	678	99.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.1	0.4	Jun 13	1.4	Jun 08 01:00	98.6%	94.2%	0	0	
July 2023																	
August 2023																	
September 2023																	
October 2023																	
November 2023																	
December 2023																	
<b>Annual</b>	<b>4071</b>	<b>99.1%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>			<b>MAXIMUM VALUES</b>						<b>0</b>	<b>0</b>
										<b>1.0</b>	<b>May 17</b>	<b>3.8</b>	<b>May 17 08:00</b>				

AAAQO Objectives: 24-Hr: 3ppb, 1-Hr: 10ppb

2023 Hourly Concentration Readings of H<sub>2</sub>S (in ppb) at Donnelly



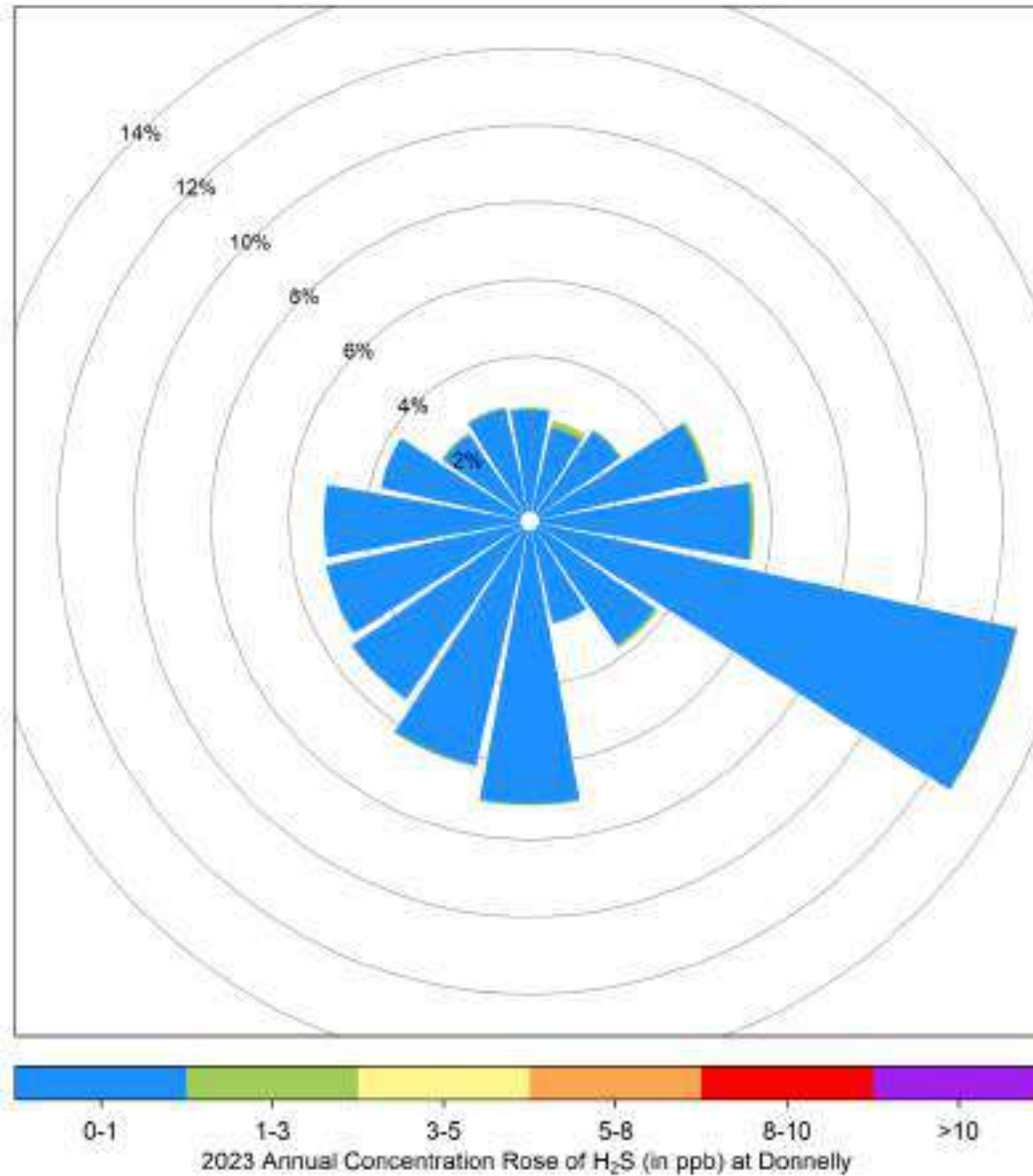
2023 Daily Concentration Readings of H<sub>2</sub>S (in ppb) at Donnelly



### Hourly Maximum H<sub>2</sub>S (in ppb) for 2023 at Donnelly





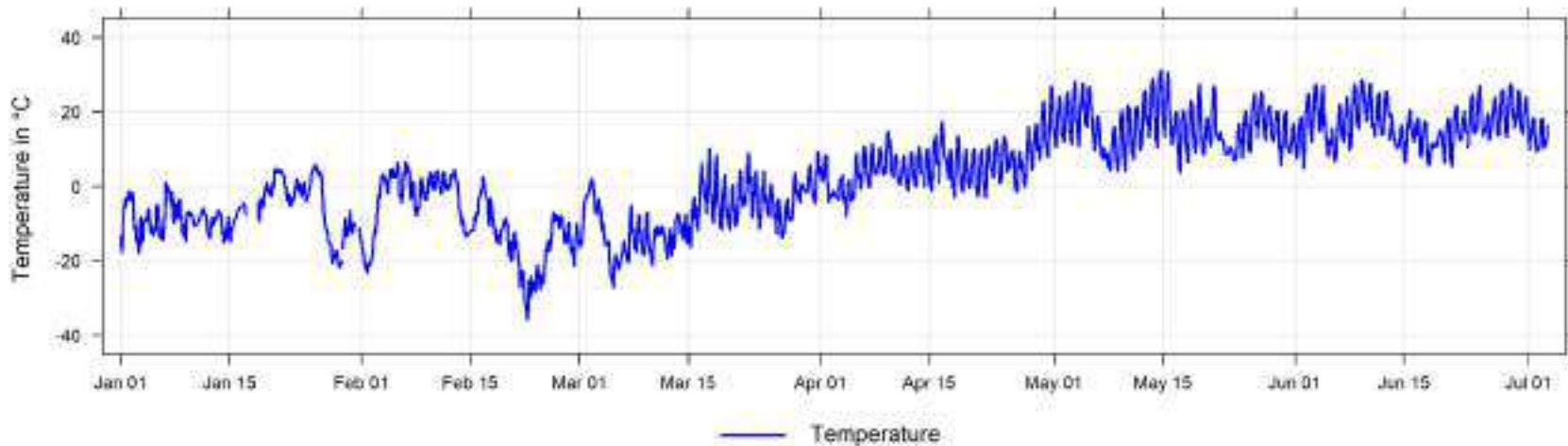


### 4.3 Temperature (ET) - Donnelly 2023 Summary

Temperature (ET) Frequency Distribution at Donnelly

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)		
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date
January 2023	687	-7.1	3.8	Jan 21	5.6	Jan 25 23:00	-18.7	Jan 28	-21.8	Jan 29 05:00	92.7%	92.3%
February 2023	670	-9.1	2.8	Feb 05	6.4	Feb 06 17:00	-29.7	Feb 22	-35.9	Feb 22 06:00	99.7%	99.7%
March 2023	744	-7.8	1.6	Mar 31	10.2	Mar 17 17:00	-22.2	Mar 05	-27.3	Mar 05 08:00	100.0%	100.0%
April 2023	711	5.6	16.9	Apr 30	26.8	Apr 30 16:00	-2.4	Apr 02	-8.1	Apr 04 06:00	98.8%	98.8%
May 2023	744	15.8	21.8	May 14	31.0	May 14 18:00	8.1	May 07	3.8	May 17 05:00	100.0%	100.0%
June 2023	715	16.8	22.6	Jun 09	28.6	Jun 09 14:00	9.4	Jun 18	4.8	Jun 02 04:00	99.3%	99.3%
July 2023												
August 2023												
September 2023												
October 2023												
November 2023												
December 2023												
4271		<b>AVERAGE</b>	<b>22.6</b>	<b>MAXIMUM VALUES</b>			<b>-29.7</b>	<b>MINIMUM VALUES</b>				
				Jun 09	31.0	May 14 18:00		Feb 22	-35.9	Feb 22 06:00		

2023 Hourly Temperature Readings (in °C) at Donnelly

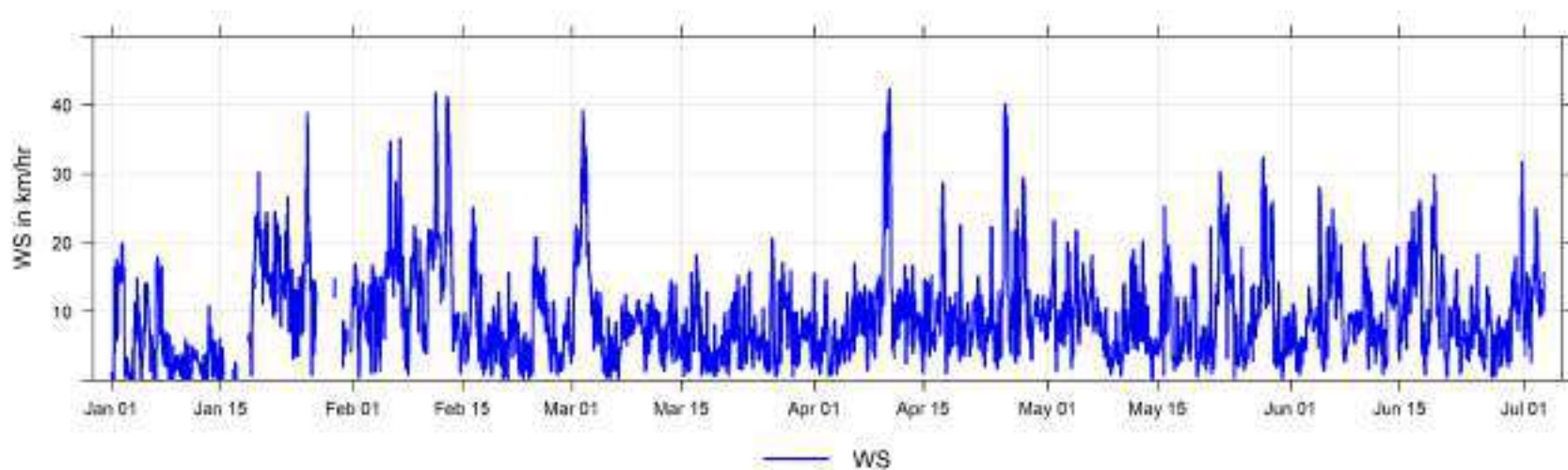


#### 4.4 Wind Speed and Wind Direction (WS and WD) - Donnelly 2023 Summary

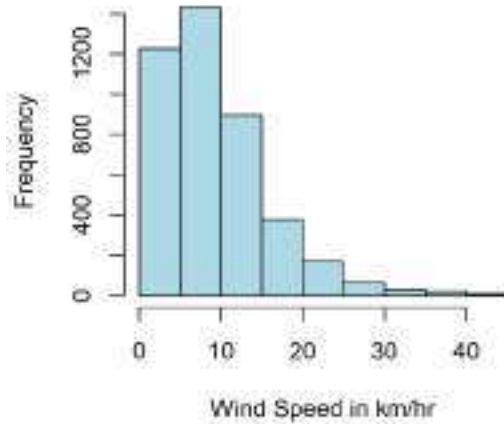
Wind Speed Frequency Distribution at Donnelly

Month	Valid Hours	Calm	% of Readings in Concentration Range					Monthly Average (km/hr)	24-hr (km/hr)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	
			0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)			Date	1-hr Date			
January 2023	583	16.5%	28.6%	17.8%	27.3%	8.6%	1.2%	8.5	20.2	Jan 19	38.8	Jan 26 03:00	78.6%	78.4%
February 2023	670	2.7%	23.9%	32.4%	28.2%	9.3%	3.6%	10.7	23.7	Feb 11	41.8	Feb 11 12:00	99.7%	99.7%
March 2023	744	2.8%	32.8%	45.2%	14.1%	3.2%	1.9%	7.9	28.5	Mar 02	39.2	Mar 02 11:00	100.0%	100.0%
April 2023	711	0.8%	18.7%	50.1%	21.9%	4.6%	3.8%	9.9	29.5	Apr 10	42.3	Apr 10 15:00	98.8%	98.8%
May 2023	744	1.2%	28.5%	38.4%	24.9%	6.2%	0.8%	9.0	20.1	May 23	32.4	May 28 14:00	100.0%	100.0%
June 2023	715	1.4%	20.3%	45.3%	24.9%	7.6%	0.6%	9.7	20.5	Jun 19	31.7	Jun 30 16:00	99.3%	99.3%
July 2023														
August 2023														
September 2023														
October 2023														
November 2023														
December 2023														
<b>Annual</b>	<b>4167</b>	<b>4.2%</b>	<b>25.5%</b>	<b>38.2%</b>	<b>23.5%</b>	<b>6.6%</b>	<b>2.0%</b>			<b>MAXIMUM VALUES</b>				
									<b>29.5</b>	<b>Apr 10</b>	<b>42.3</b>	<b>Apr 10 15:00</b>		

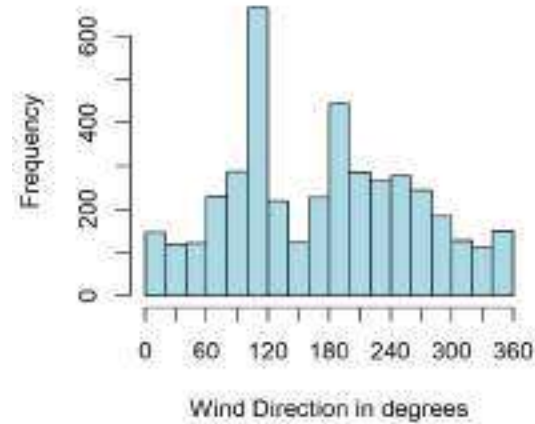
2023 Hourly Readings of Wind Speed (in km/hr) at Donnelly



**2023 Wind Speed Histogram**

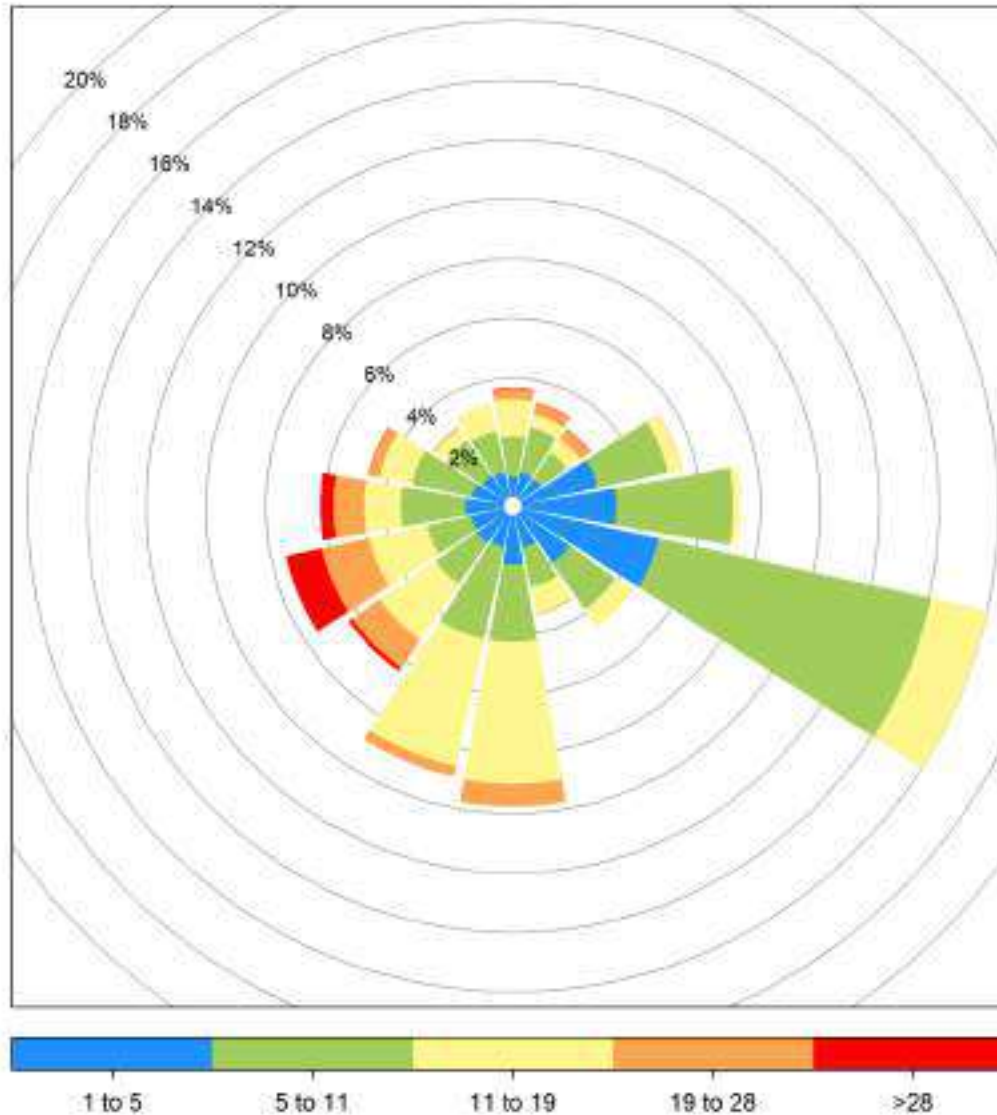


**2023 Wind Direction Histogram**



**Wind Speed and Wind Direction Frequency Distribution at Donnelly**

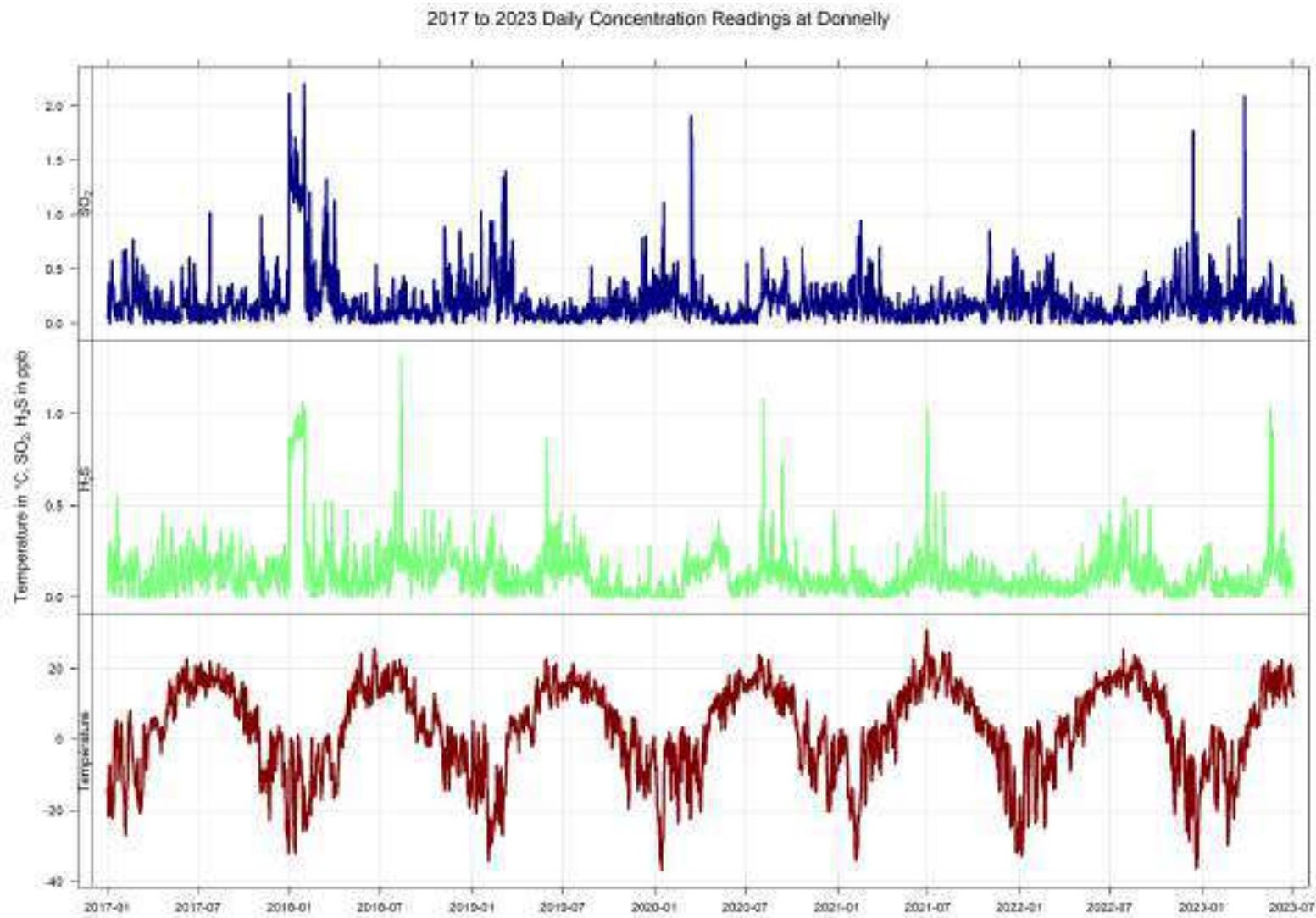
Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	168	0.4%	0.7%	1.3%	1.2%	0.4%	0.0%	4.0%
NNE	141	0.1%	0.9%	1.5%	0.5%	0.4%	0.0%	3.4%
NE	129	0.2%	0.8%	1.1%	0.6%	0.4%	0.0%	3.1%
ENE	245	0.3%	2.6%	2.4%	0.5%	0.0%	0.0%	5.9%
E	323	0.3%	3.2%	4.0%	0.3%	0.0%	0.0%	7.8%
ESE	693	0.4%	4.8%	9.5%	2.0%	0.0%	0.0%	16.6%
SE	208	0.3%	2.0%	1.9%	0.7%	0.0%	0.0%	5.0%
SSE	154	0.2%	1.1%	1.4%	0.9%	0.0%	0.0%	3.7%
S	416	0.2%	1.6%	2.6%	4.8%	0.8%	0.0%	10.0%
SSW	376	0.2%	1.1%	3.0%	4.3%	0.4%	0.0%	9.0%
SW	279	0.3%	1.2%	1.7%	2.2%	1.2%	0.1%	6.7%
WSW	320	0.2%	1.1%	1.5%	2.0%	1.7%	1.2%	7.7%
W	255	0.3%	1.3%	2.1%	1.1%	0.9%	0.5%	6.1%
WNW	189	0.1%	1.1%	2.0%	1.0%	0.3%	0.0%	4.5%
NW	130	0.1%	1.0%	1.4%	0.5%	0.1%	0.0%	3.1%
NNW	141	0.2%	0.9%	1.4%	0.9%	0.0%	0.0%	3.4%
<b>Total</b>	<b>4167</b>	<b>3.8%</b>	<b>25.5%</b>	<b>38.9%</b>	<b>23.3%</b>	<b>6.5%</b>	<b>2.0%</b>	<b>100.0%</b>



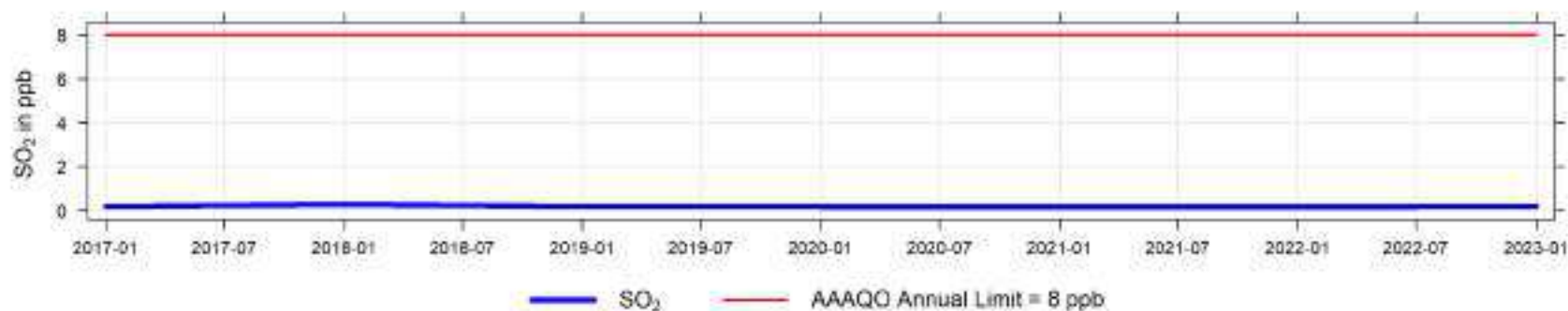
Donnelly 2023 Wind Rose, wind speed in km/hr  
**Calms (<1km/hr) = 3.8 %**

#### 4.5 Donnelly Annual Trends, 2017 to 2023

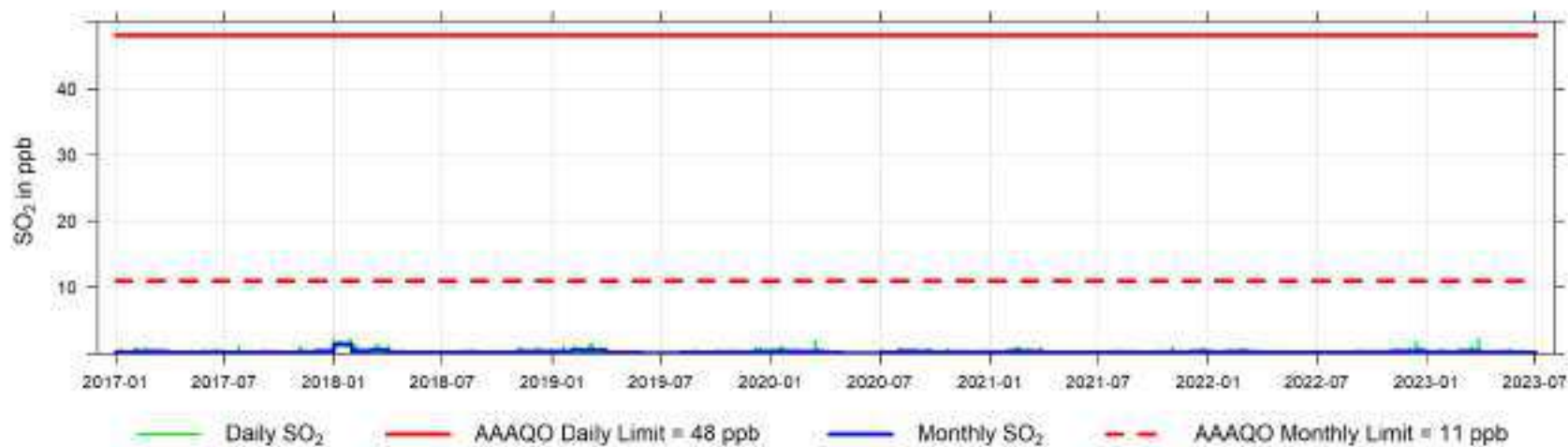
The following pages include historical annual charts collected between 2017 and 2023 at the Donnelly Station.



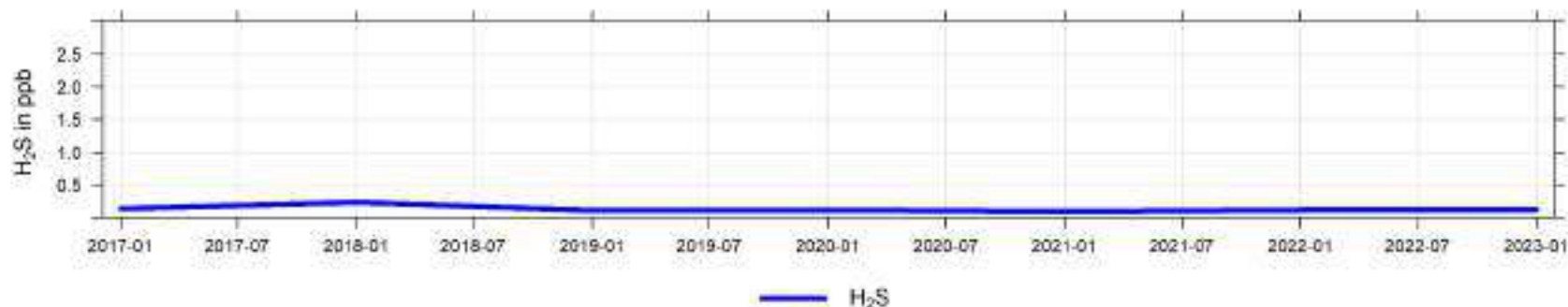
Years 2017 to 2023 Annual Concentration Readings of SO<sub>2</sub> (in ppb) at Donnelly



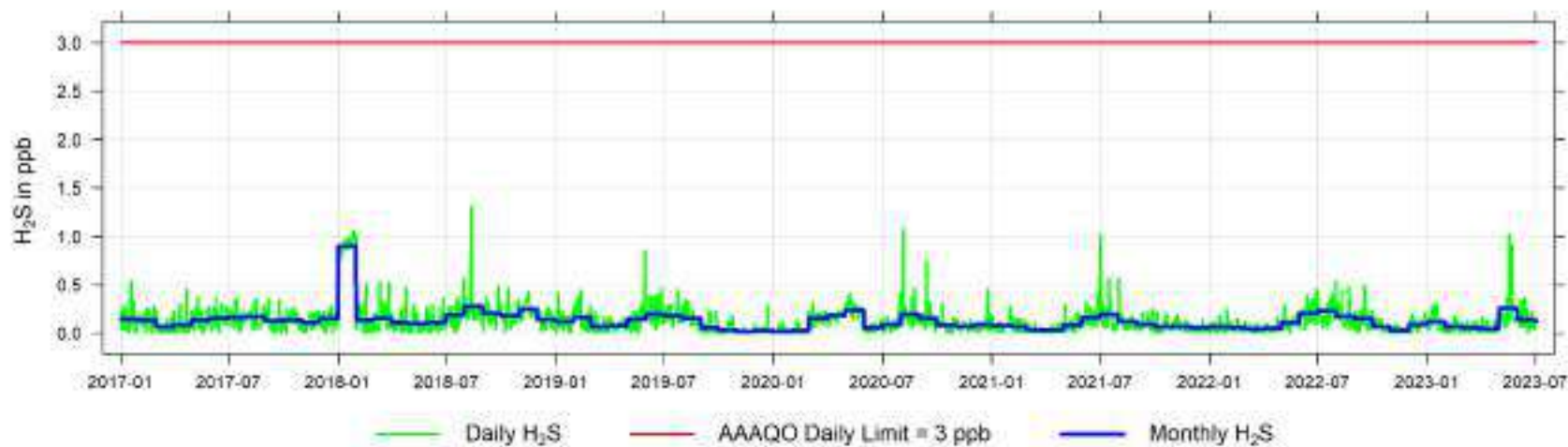
Years 2017 to 2023 Concentration Readings of SO<sub>2</sub> (in ppb) at Donnelly



Years 2017 to 2023 Annual Concentration Readings of H<sub>2</sub>S (in ppb) at Donnelly

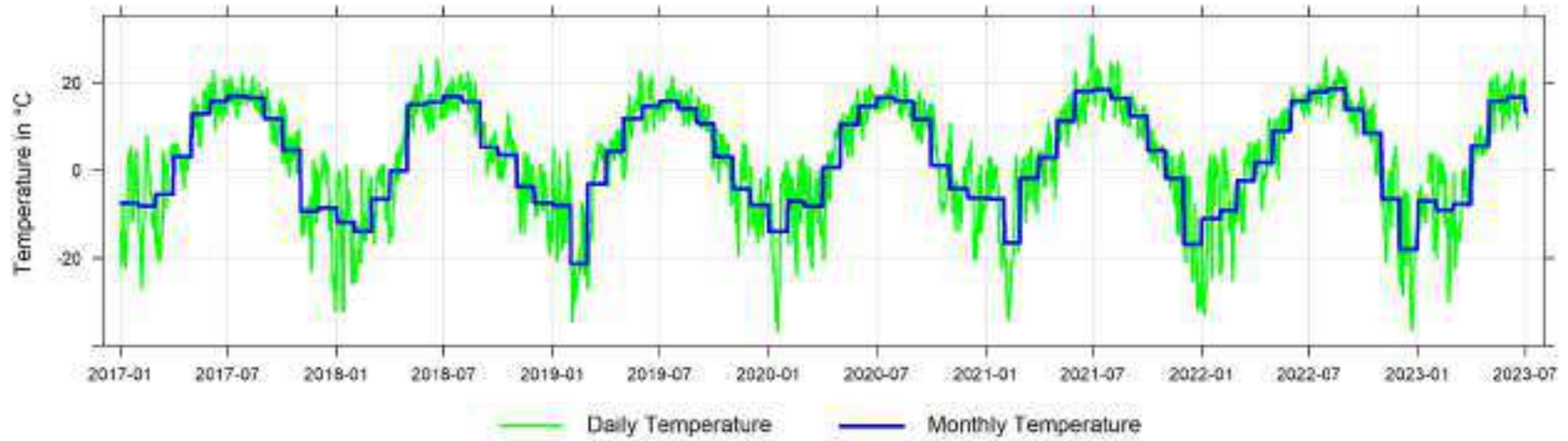


Years 2017 to 2023 Concentration Readings of H<sub>2</sub>S (in ppb) at Donnelly

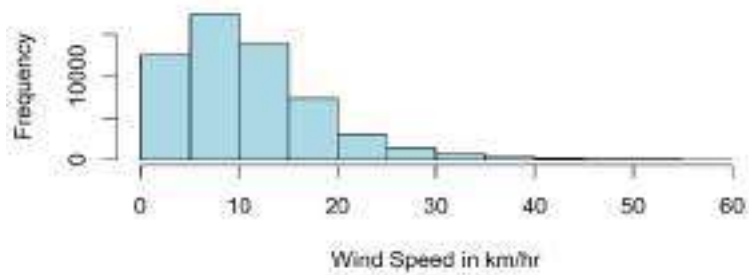




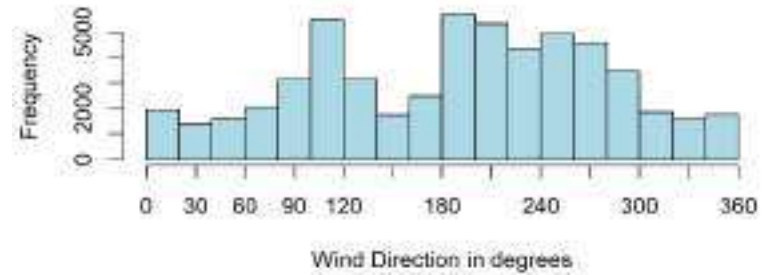
Years 2017 to 2023 Temperature Readings (in °C) at Donnelly



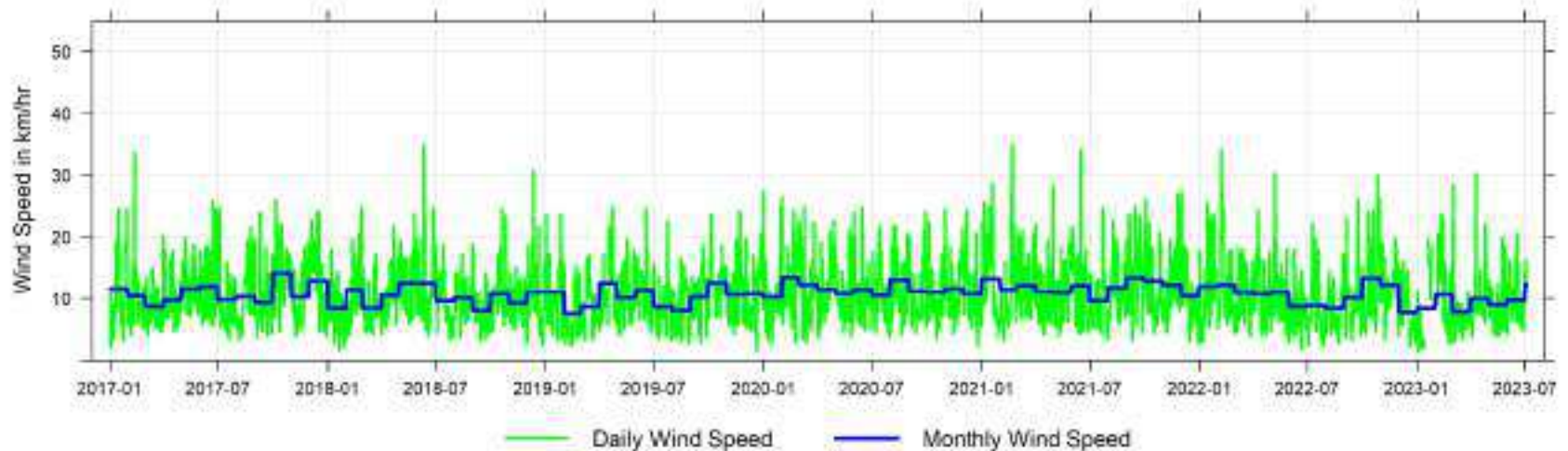
**Years 2017 to 2023 Wind Speed Histogram**

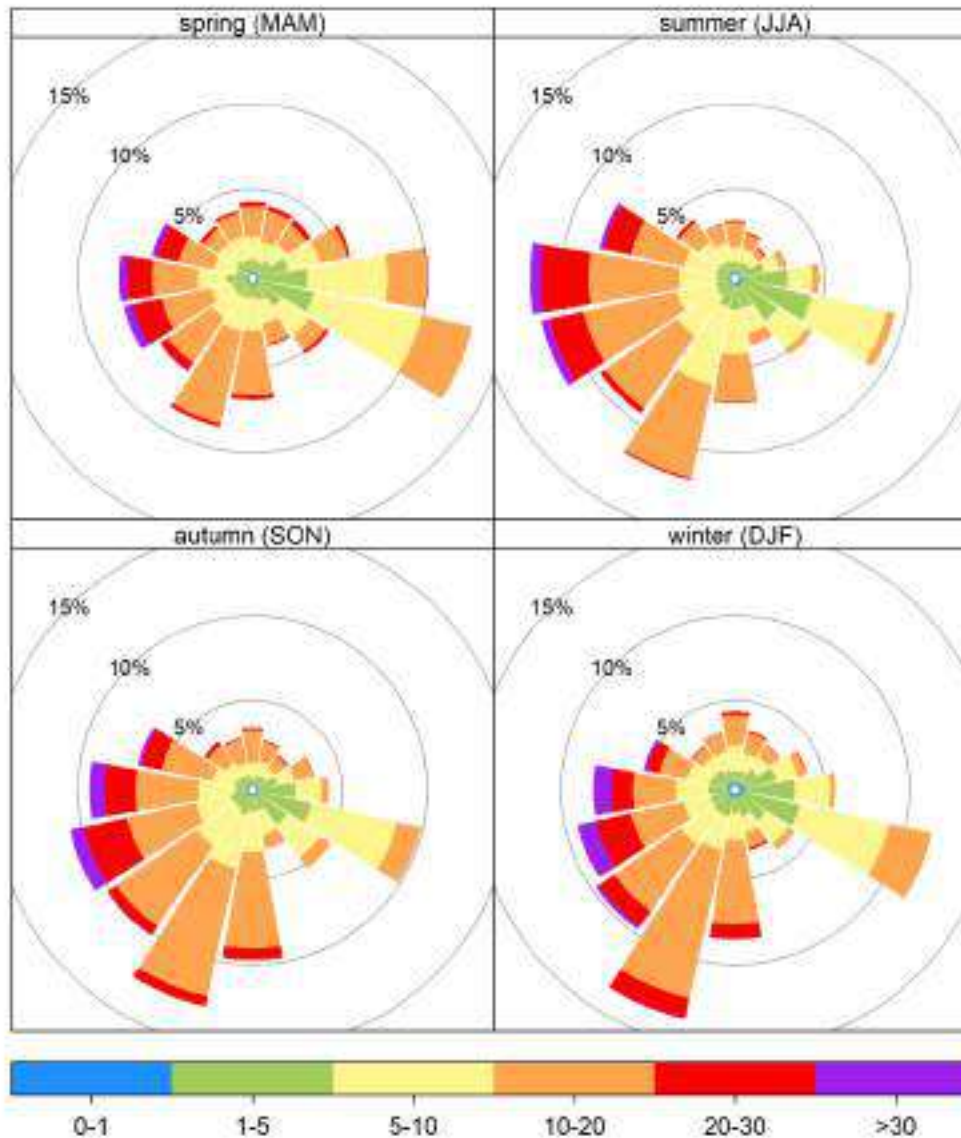


**Years 2017 to 2023 Wind Direction Histogram**

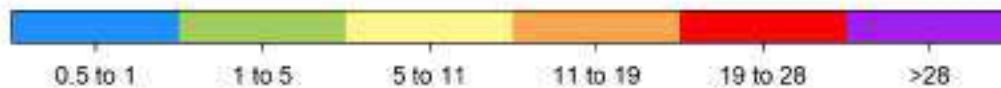
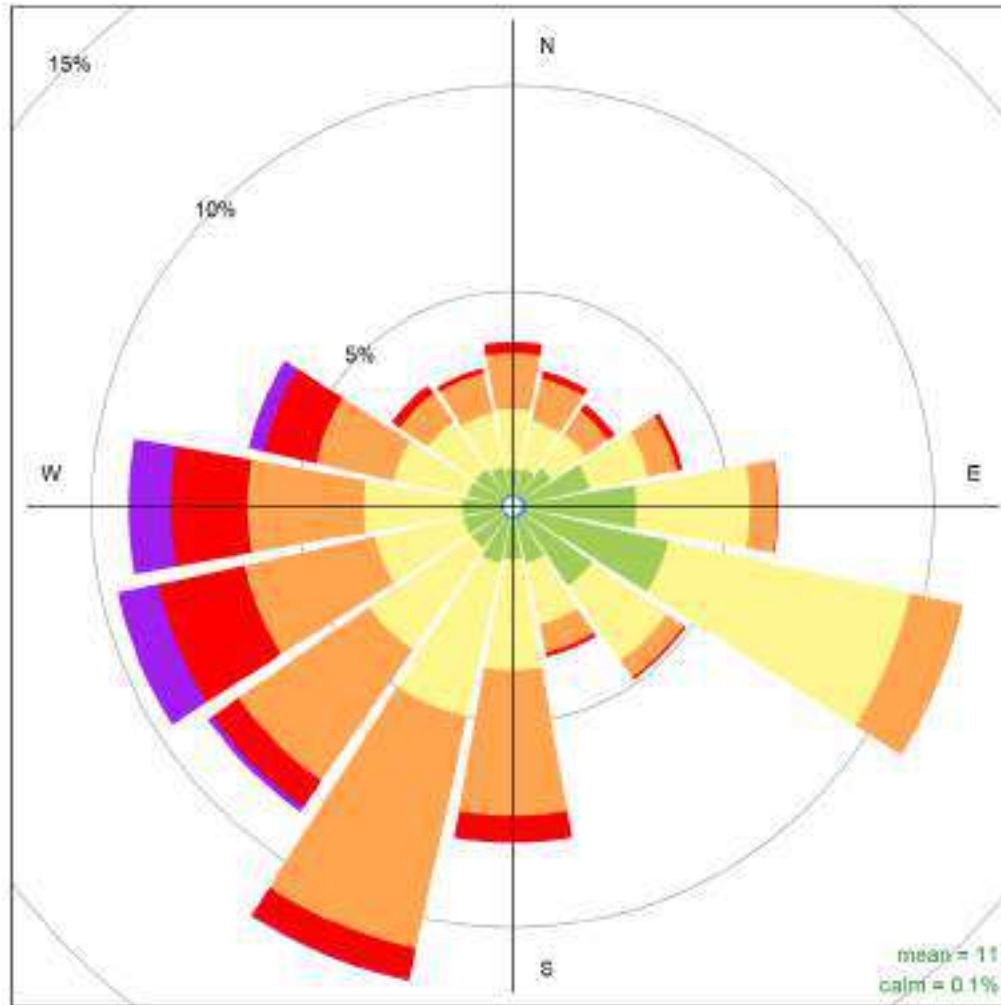


**Years 2017 to 2023 Wind Speed Readings (in km/hr) at Donnelly**





Donnelly 2017 to 2023 Seasonal Wind Rose, wind speed in km/hr



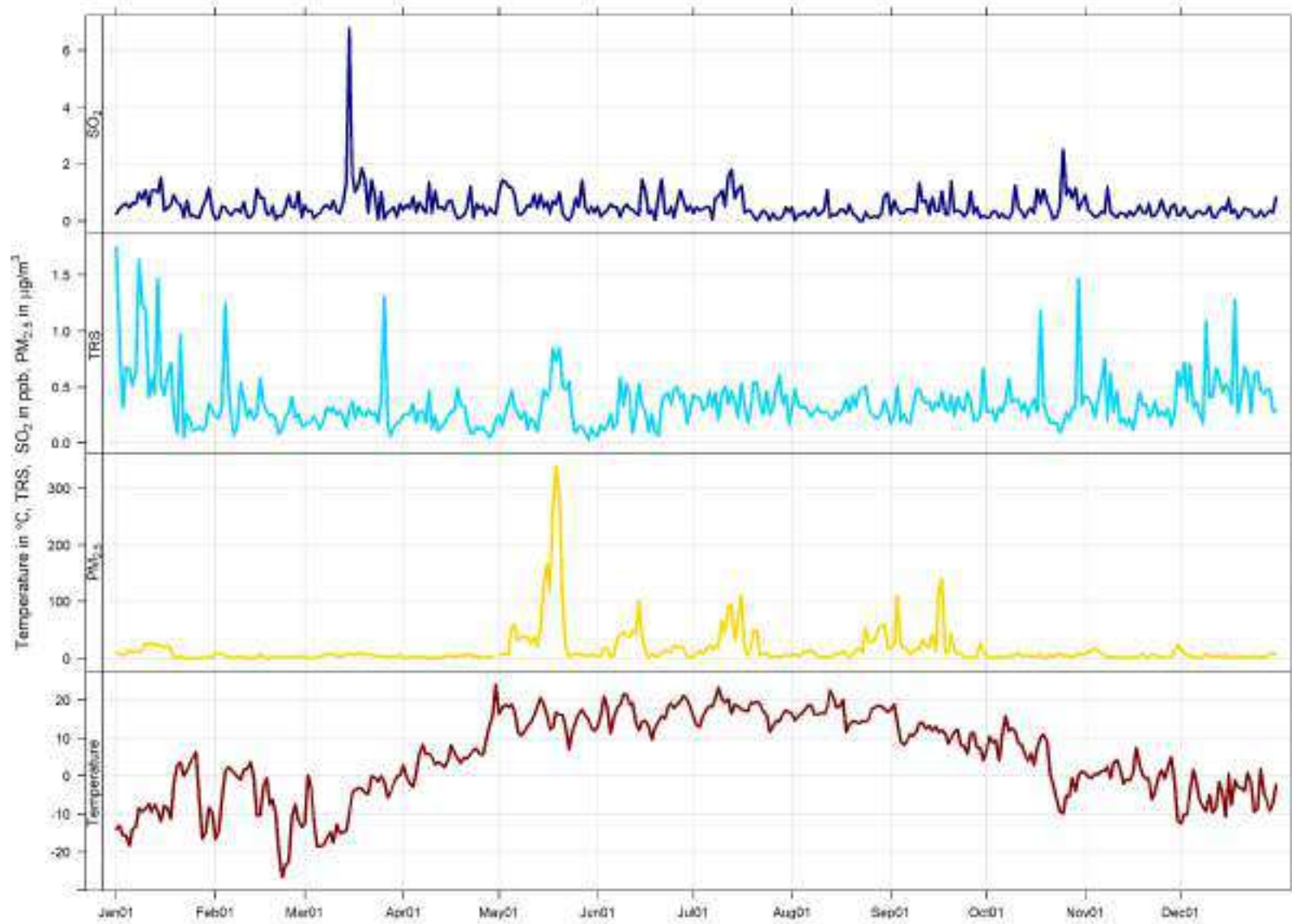
Donnelly 2017 to 2023 Wind Rose, wind speed in km/hr  
**Frequency of counts by wind direction (%)**

## 5 Dunes Key Parameters - Continuous Monitoring Data - 2023 Summary

Dunes Key Parameters - Continuous Monitoring Data - 2023 Summary

Dunes Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr			Date	1-hr	24-hr	30-d	Annual
	Sulphur Dioxide SO <sub>2</sub> measured in ppb	0.5	6.8	Mar 15	29.6	Mar 15 15:00	99.8%	95.1%	0	0	0	0
	Total Reduced Sulphur TRS measured in ppb	0.4	1.8	Jan 01	10.2	Mar 26 01:00	98.9%	94.2%	1	0	-	-
	Particulate Matter PM <sub>2.5</sub> measured in µg/m <sup>3</sup>	15.6	348.9	May 19	997.0	May 19 20:00	99.1%	98.9%	321	44	-	-

2023 Daily Concentration Readings at Dunes



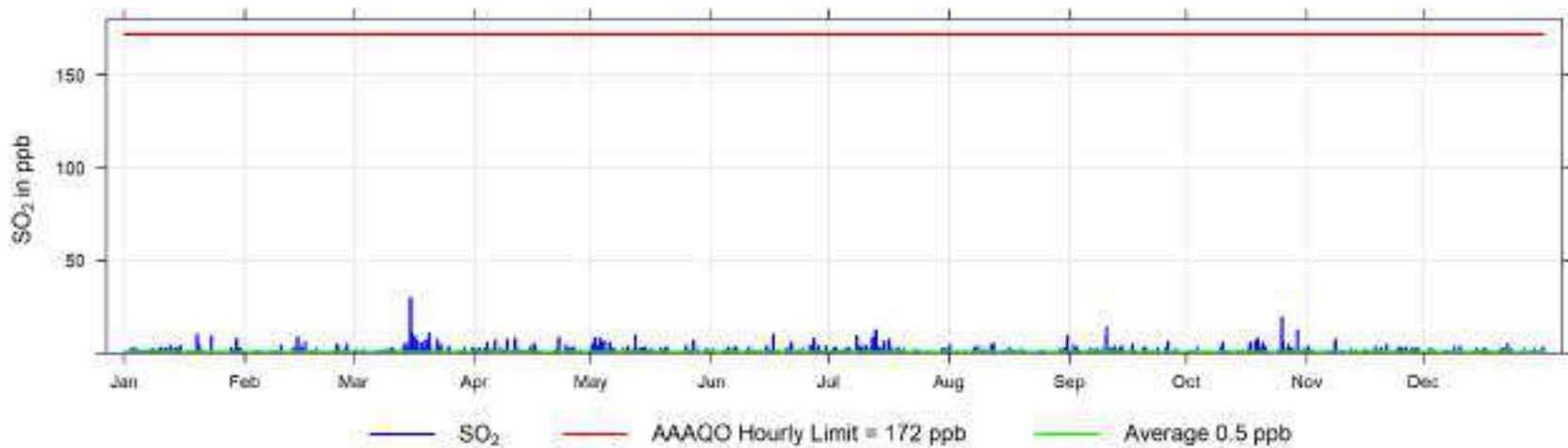
## 5.1 Sulphur Dioxide (SO<sub>2</sub>) - Dunes 2023 Summary

### Sulphur Dioxide (SO<sub>2</sub>) Frequency Distribution at Dunes

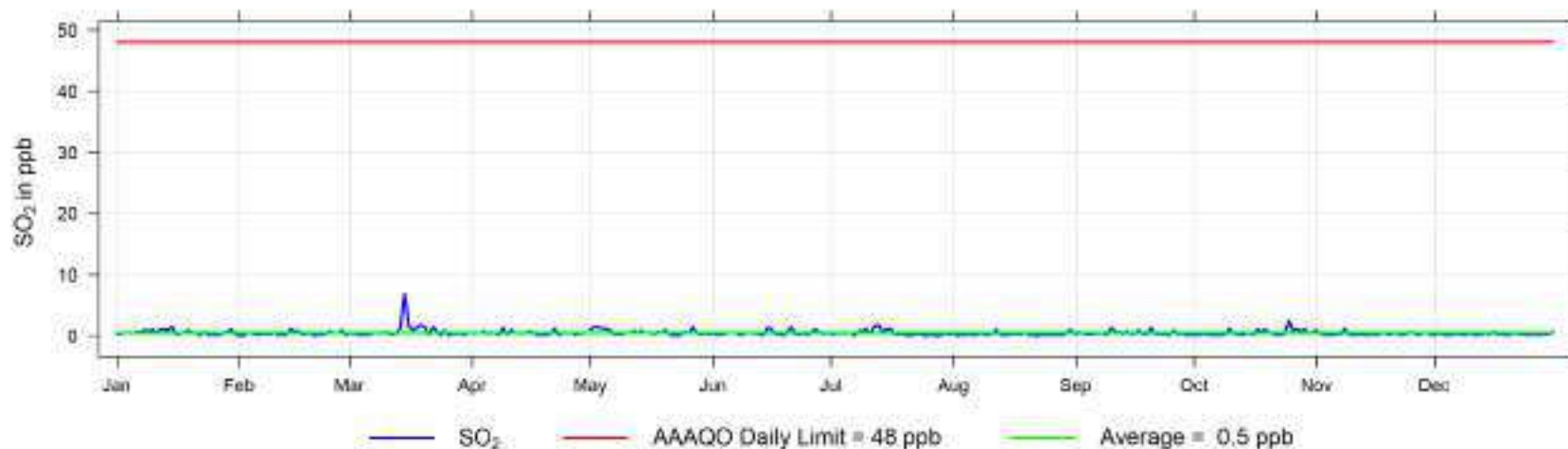
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2023	709	84.6%	15.0%	0.4%	0.0%	0.0%	0.0%	0.6	1.5	Jan 15	9.9	Jan 19 17:00	100.0%	95.3%	0	0	0
February 2023	641	92.4%	7.3%	0.3%	0.0%	0.0%	0.0%	0.4	1.1	Feb 14	8.1	Feb 14 11:00	100.0%	95.4%	0	0	0
March 2023	708	82.8%	14.5%	1.4%	1.3%	0.0%	0.0%	0.8	6.8	Mar 15	29.6	Mar 15 15:00	100.0%	95.2%	0	0	0
April 2023	672	89.6%	9.2%	1.2%	0.0%	0.0%	0.0%	0.5	1.4	Apr 09	8.3	Apr 22 18:00	97.9%	93.3%	0	0	0
May 2023	710	83.0%	15.5%	1.5%	0.0%	0.0%	0.0%	0.6	1.4	May 27	9.2	May 12 11:00	100.0%	95.4%	0	0	0
June 2023	685	88.8%	10.7%	0.4%	0.1%	0.0%	0.0%	0.5	1.5	Jun 21	10.0	Jun 16 21:00	100.0%	95.1%	0	0	0
July 2023	710	86.2%	13.0%	0.7%	0.1%	0.0%	0.0%	0.5	1.8	Jul 13	12.6	Jul 13 05:00	100.0%	95.4%	0	0	0
August 2023	709	92.4%	7.3%	0.3%	0.0%	0.0%	0.0%	0.3	1.1	Aug 12	9.0	Aug 31 10:00	100.0%	95.3%	0	0	0
September 2023	686	89.9%	9.6%	0.3%	0.1%	0.0%	0.0%	0.5	1.4	Sep 20	13.9	Sep 10 12:00	100.0%	95.3%	0	0	0
October 2023	709	86.5%	12.3%	0.8%	0.4%	0.0%	0.0%	0.6	2.6	Oct 25	19.5	Oct 25 14:00	100.0%	95.3%	0	0	0
November 2023	686	92.7%	7.1%	0.1%	0.0%	0.0%	0.0%	0.4	1.2	Nov 08	7.3	Nov 08 06:00	100.0%	95.3%	0	0	0
December 2023	709	94.1%	5.9%	0.0%	0.0%	0.0%	0.0%	0.3	0.8	Dec 31	4.9	Dec 22 14:00	100.0%	95.3%	0	0	0
<b>Annual</b>	<b>8334</b>	<b>88.6%</b>	<b>10.6%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5</b>	<b>6.8</b>	<b>MAXIMUM VALUES</b>		<b>99.8%</b>	<b>95.1%</b>	<b>0</b>	<b>0</b>	<b>0</b>	

AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

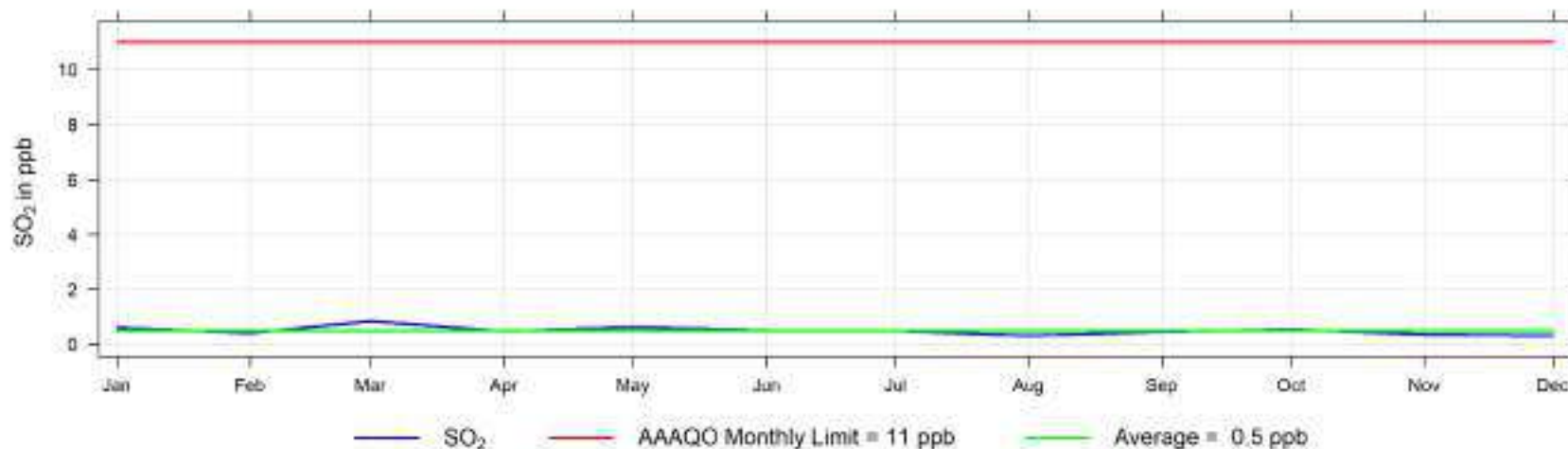
2023 Hourly Concentration Readings of SO<sub>2</sub> (in ppb) at Dunes



2023 Daily Concentration Readings of SO<sub>2</sub> (in ppb) at Dunes

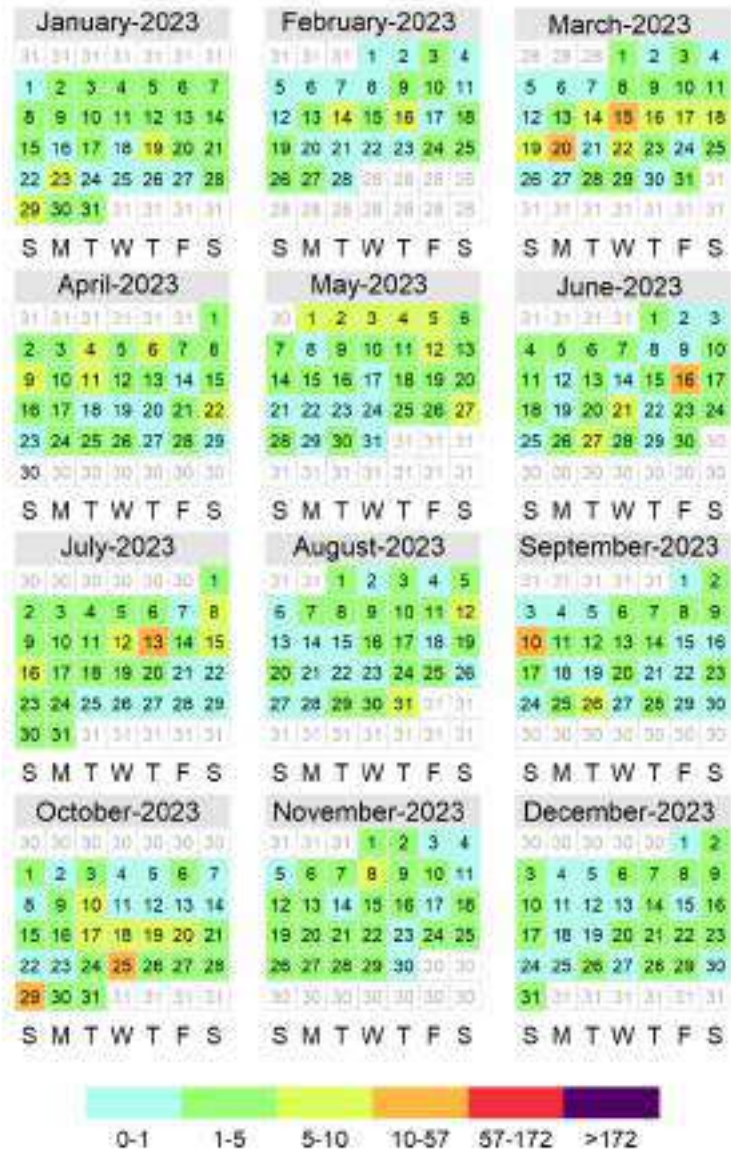


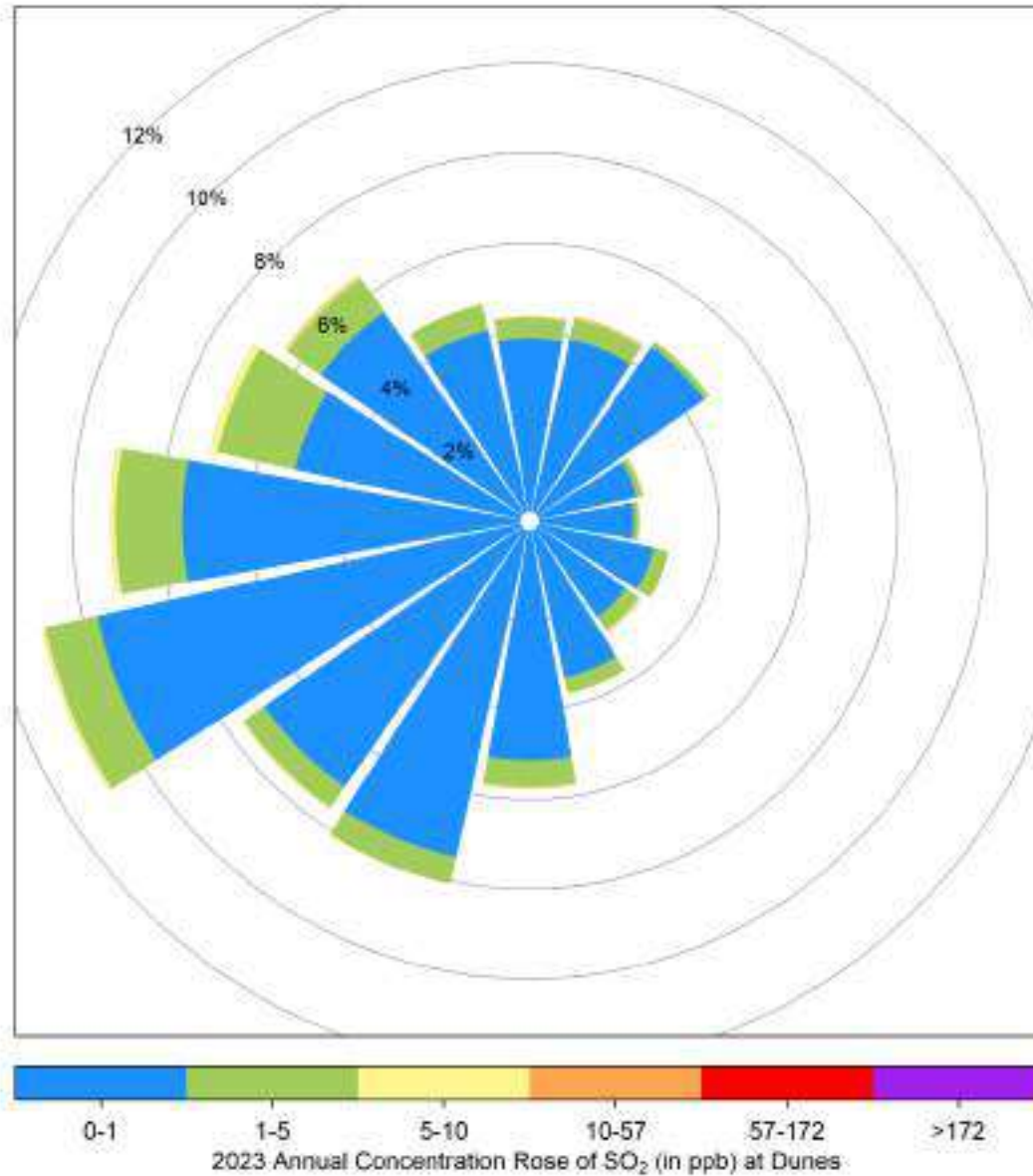
2023 Monthly Concentration Readings of SO<sub>2</sub> (in ppb) at Dunes





## Hourly Maximum SO<sub>2</sub> (in ppb) for 2023 at Dunes





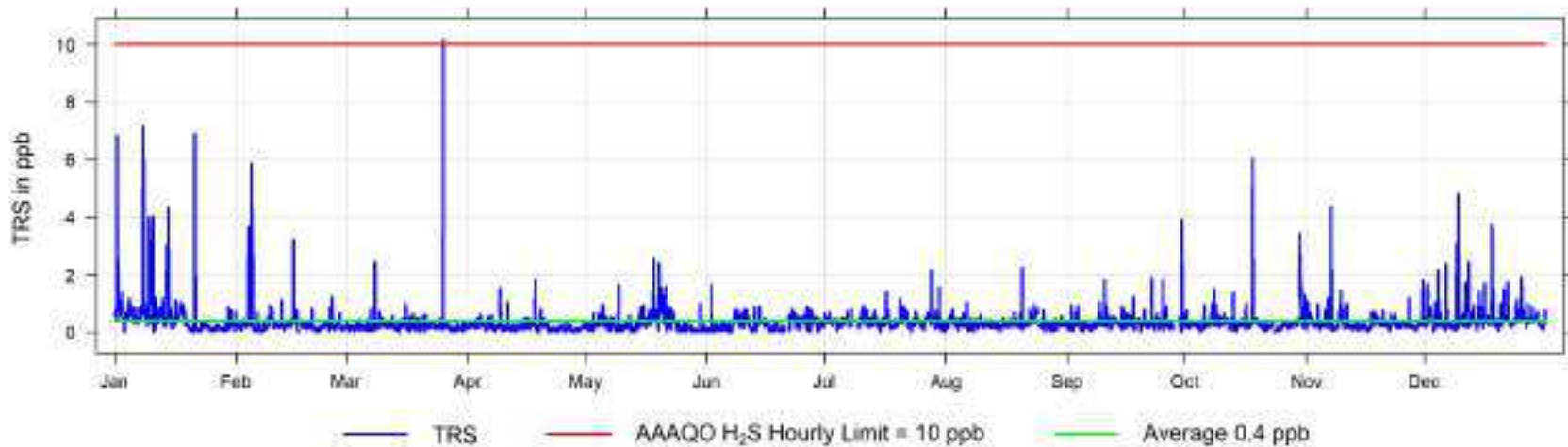
## 5.2 Total Reduced Sulphur (TRS) - Dunes 2023 Summary

Total Reduced Sulphur (TRS) Frequency Distribution at Dunes

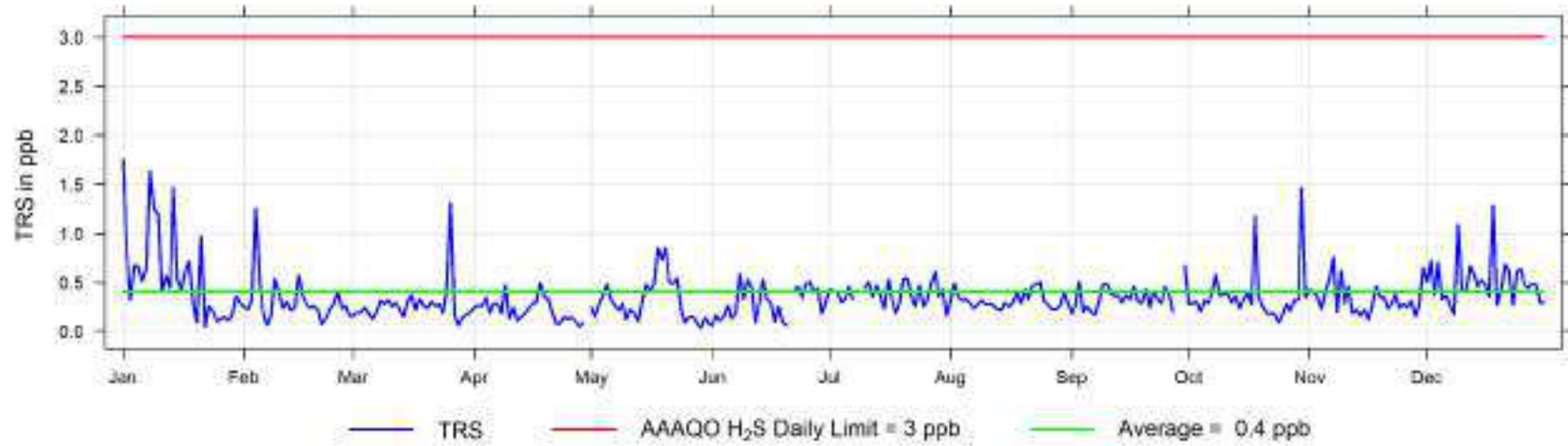
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 1 (ppb)	1 to 3 (ppb)	3 to 5 (ppb)	5 to 8 (ppb)	8 to 10 (ppb)	> 10 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			24-hr 3 ppb	1-hr 10 ppb
January 2023	709	89.7%	7.8%	1.7%	0.8%	0.0%	0.0%	0.6	1.8	Jan 01	7.1	Jan 08 09:00	100.0%	95.3%	0	0
February 2023	640	97.2%	2.0%	0.6%	0.2%	0.0%	0.0%	0.3	1.3	Feb 04	5.8	Feb 04 21:00	100.0%	95.2%	0	0
March 2023	708	99.3%	0.1%	0.1%	0.3%	0.0%	0.1%	0.3	1.0	Mar 26	10.2	Mar 26 01:00	100.0%	95.2%	0	0
April 2023	671	98.7%	1.3%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	Apr 18	1.8	Apr 18 11:00	97.8%	93.2%	0	0
May 2023	709	97.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.3	0.8	May 18	2.6	May 18 10:00	100.0%	95.3%	0	0
June 2023	674	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3	0.6	Jun 08	1.7	Jun 02 08:00	98.8%	93.6%	0	0
July 2023	677	98.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.4	0.6	Jul 28	2.2	Jul 28 06:00	95.7%	91.0%	0	0
August 2023	708	99.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.3	0.5	Aug 24	2.3	Aug 20 11:00	100.0%	95.2%	0	0
September 2023	650	98.2%	1.7%	0.2%	0.0%	0.0%	0.0%	0.3	0.7	Sep 30	3.9	Sep 30 06:00	94.9%	90.3%	0	0
October 2023	708	96.3%	3.1%	0.3%	0.3%	0.0%	0.0%	0.4	1.5	Oct 30	6.0	Oct 18 06:00	100.0%	95.2%	0	0
November 2023	685	97.1%	2.8%	0.1%	0.0%	0.0%	0.0%	0.3	0.7	Nov 07	4.3	Nov 07 05:00	100.0%	95.1%	0	0
December 2023	709	92.1%	7.3%	0.6%	0.0%	0.0%	0.0%	0.5	1.3	Dec 18	4.8	Dec 09 16:00	100.0%	95.3%	0	0
<b>Annual</b>	<b>8248</b>	<b>96.9%</b>	<b>2.6%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4</b>	<b>1.8</b>	<b>Jan 01</b>	<b>10.2</b>	<b>Mar 26 01:00</b>	<b>98.9%</b>	<b>94.2%</b>	<b>0</b>	<b>0</b>

AAAQO H<sub>2</sub>S Objectives: 24-Hr: 3ppb, 1-Hr: 10ppb

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

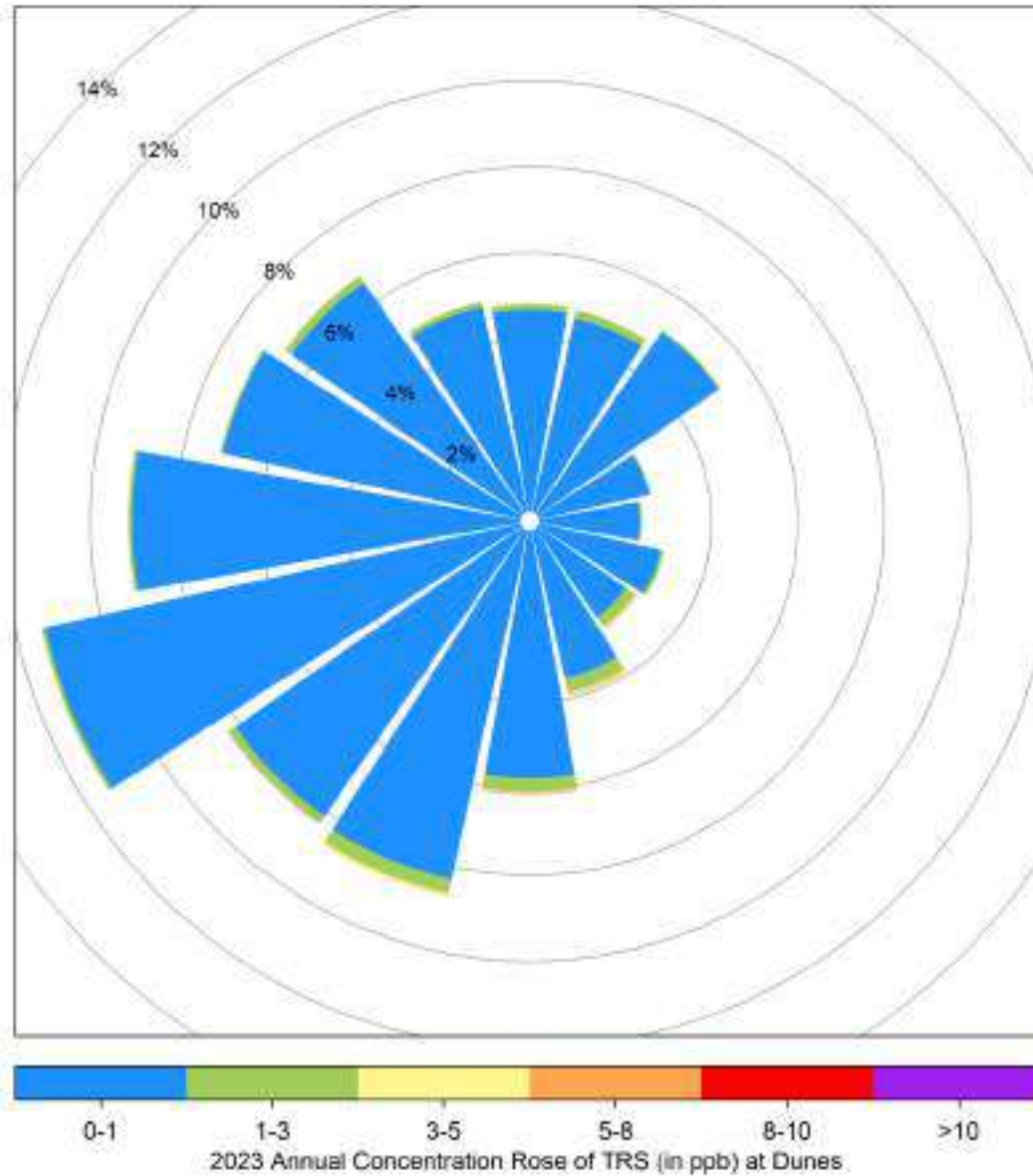


2023 Daily Concentration Readings of TRS (in ppb) at Dunes



### Hourly Maximum TRS (in ppb) for 2023 at Dunes





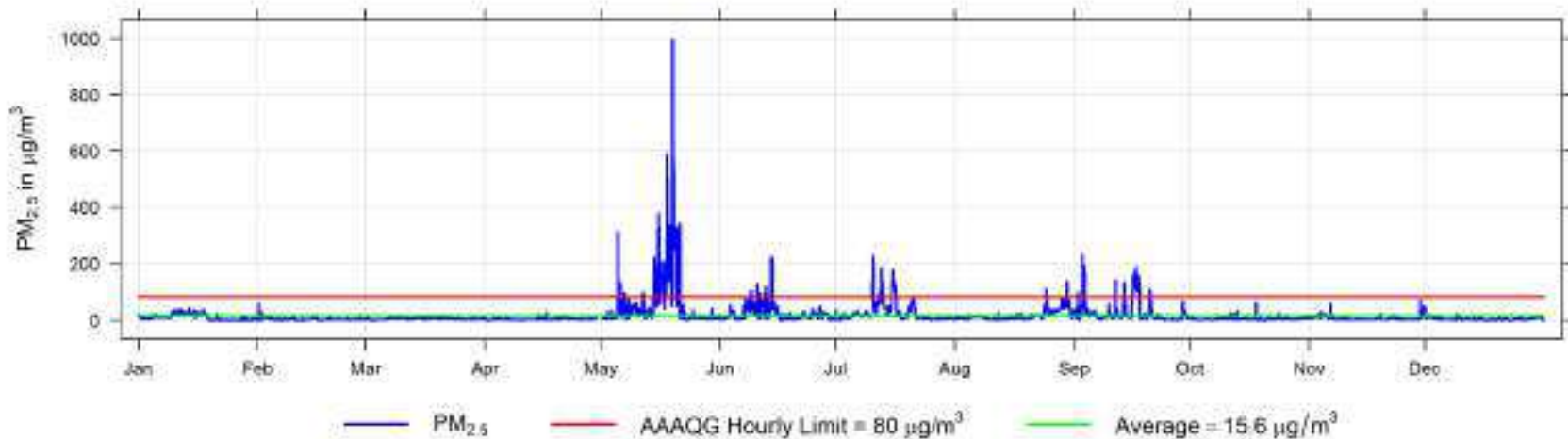
### 5.3 Particulate Matter (PM<sub>2.5</sub>) - Dunes 2023 Summary

#### Particulate Matter (PM<sub>2.5</sub>) Frequency Distribution at Dunes

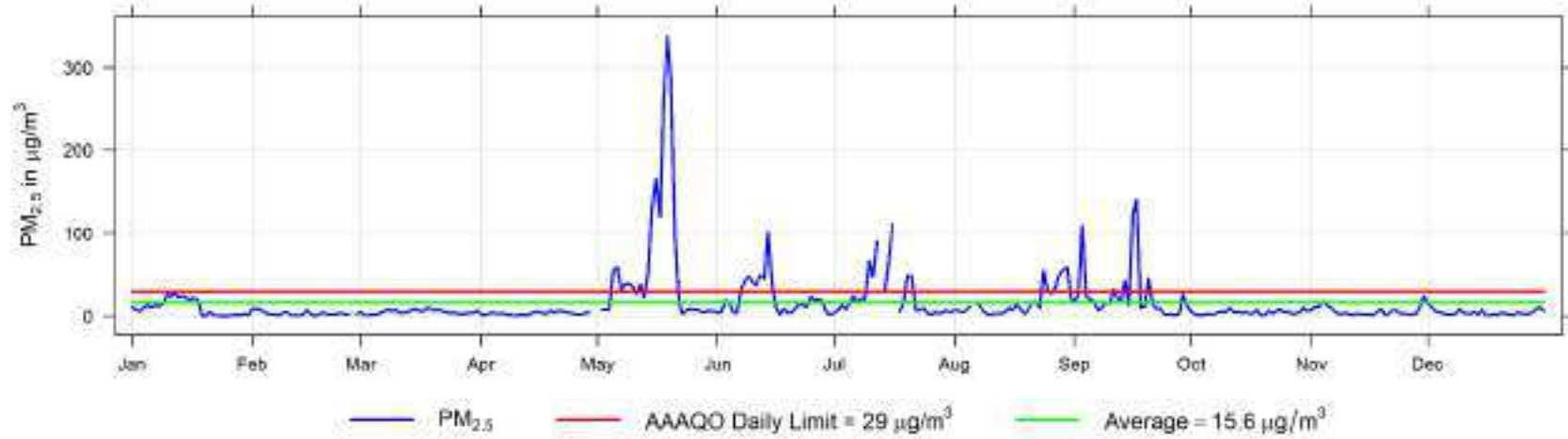
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m <sup>3</sup> )	24-hr (µg/m <sup>3</sup> )	MAXIMUM VALUES		Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 5 (µg/m <sup>3</sup> )	5 to 15 (µg/m <sup>3</sup> )	15 to 30 (µg/m <sup>3</sup> )	30 to 50 (µg/m <sup>3</sup> )	50 to 80 (µg/m <sup>3</sup> )	> 80 (µg/m <sup>3</sup> )			Date	1-hr (µg/m <sup>3</sup> )			Date	24-hr 29 µg/m <sup>3</sup>	1-hr 80 µg/m <sup>3</sup>
January 2023	742	42.0%	27.2%	26.0%	4.7%	0.0%	0.0%	10.0	27.3	Jan 12	43.0	Jan 14 06:00	100.0%	99.7%	0	0
February 2023	660	82.1%	16.4%	1.1%	0.3%	0.2%	0.0%	3.0	9.4	Feb 01	57.2	Feb 01 07:00	98.5%	98.2%	0	0
March 2023	741	59.9%	39.0%	1.1%	0.0%	0.0%	0.0%	4.8	9.7	Mar 18	17.8	Mar 16 08:00	100.0%	99.6%	0	0
April 2023	691	84.2%	15.2%	0.6%	0.0%	0.0%	0.0%	2.8	7.2	Apr 21	26.3	Apr 17 01:00	96.3%	96.0%	0	0
May 2023	734	15.9%	34.9%	10.9%	7.6%	10.2%	20.4%	61.9	348.9	May 19	997.0	May 19 20:00	98.9%	98.7%	15	150
June 2023	717	32.2%	26.1%	17.4%	12.8%	7.1%	4.3%	21.4	101.5	Jun 14	222.9	Jun 14 11:00	100.0%	99.6%	9	31
July 2023	722	24.2%	34.2%	15.9%	10.4%	8.0%	7.2%	25.8	105.8	Jul 16	226.3	Jul 10 17:00	97.3%	97.0%	8	52
August 2023	731	31.2%	34.9%	14.9%	12.4%	5.1%	1.5%	16.3	57.8	Aug 29	136.5	Aug 30 01:00	98.7%	98.3%	6	11
September 2023	718	24.2%	36.6%	18.5%	7.0%	2.9%	10.7%	26.4	136.4	Sep 17	230.7	Sep 03 06:00	100.0%	99.7%	6	77
October 2023	743	72.8%	24.4%	2.4%	0.1%	0.3%	0.0%	4.1	10.0	Oct 30	61.1	Oct 18 07:00	100.0%	99.9%	0	0
November 2023	719	65.4%	26.3%	6.4%	1.7%	0.3%	0.0%	5.7	23.7	Nov 30	70.5	Nov 29 19:00	100.0%	99.9%	0	0
December 2023	742	69.4%	28.4%	1.9%	0.3%	0.0%	0.0%	4.0	13.6	Dec 01	44.0	Dec 01 02:00	100.0%	99.7%	0	0
<b>Annual</b>	<b>8660</b>	<b>50.3%</b>	<b>28.6%</b>	<b>9.8%</b>	<b>4.8%</b>	<b>2.8%</b>	<b>3.7%</b>	<b>15.6</b>	<b>348.9</b>	<b>MAXIMUM VALUES</b>		<b>99.1%</b>	<b>98.9%</b>	<b>44</b>	<b>321</b>	

AAAQO Objectives: 24-Hr: 29 µg/m<sup>3</sup>, AAAQG Guideline: 1-Hr: 80 µg/m<sup>3</sup>

2023 Hourly Concentration Readings of PM<sub>2.5</sub> in µg/m<sup>3</sup> at Dunes

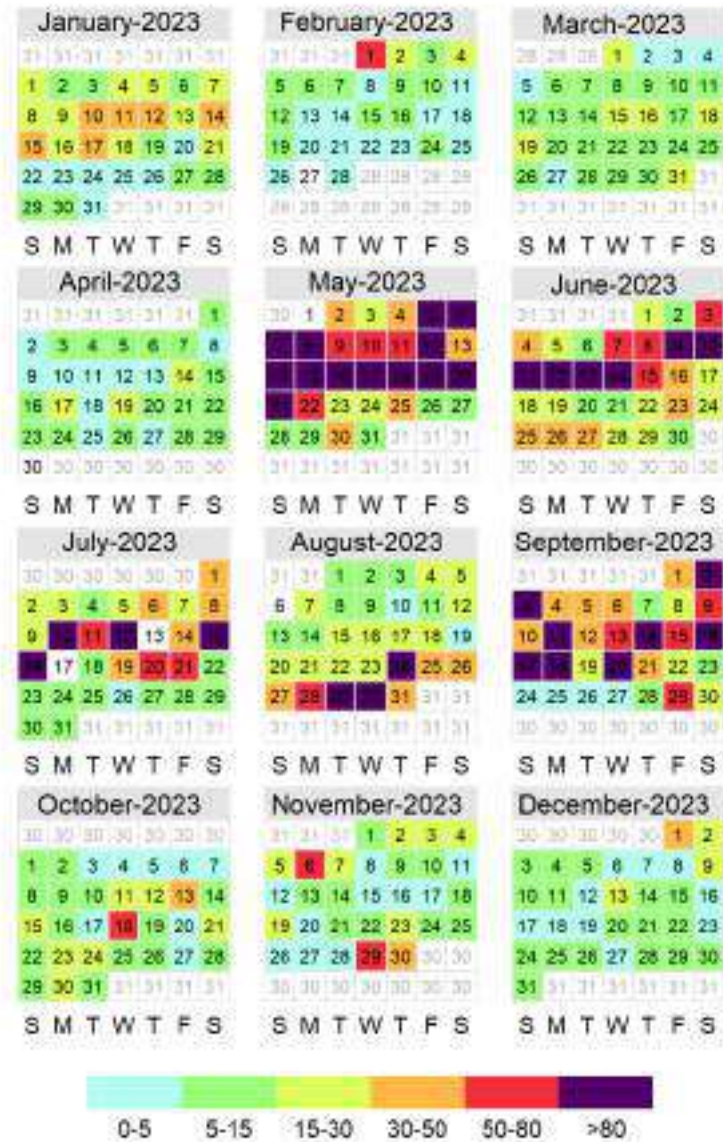


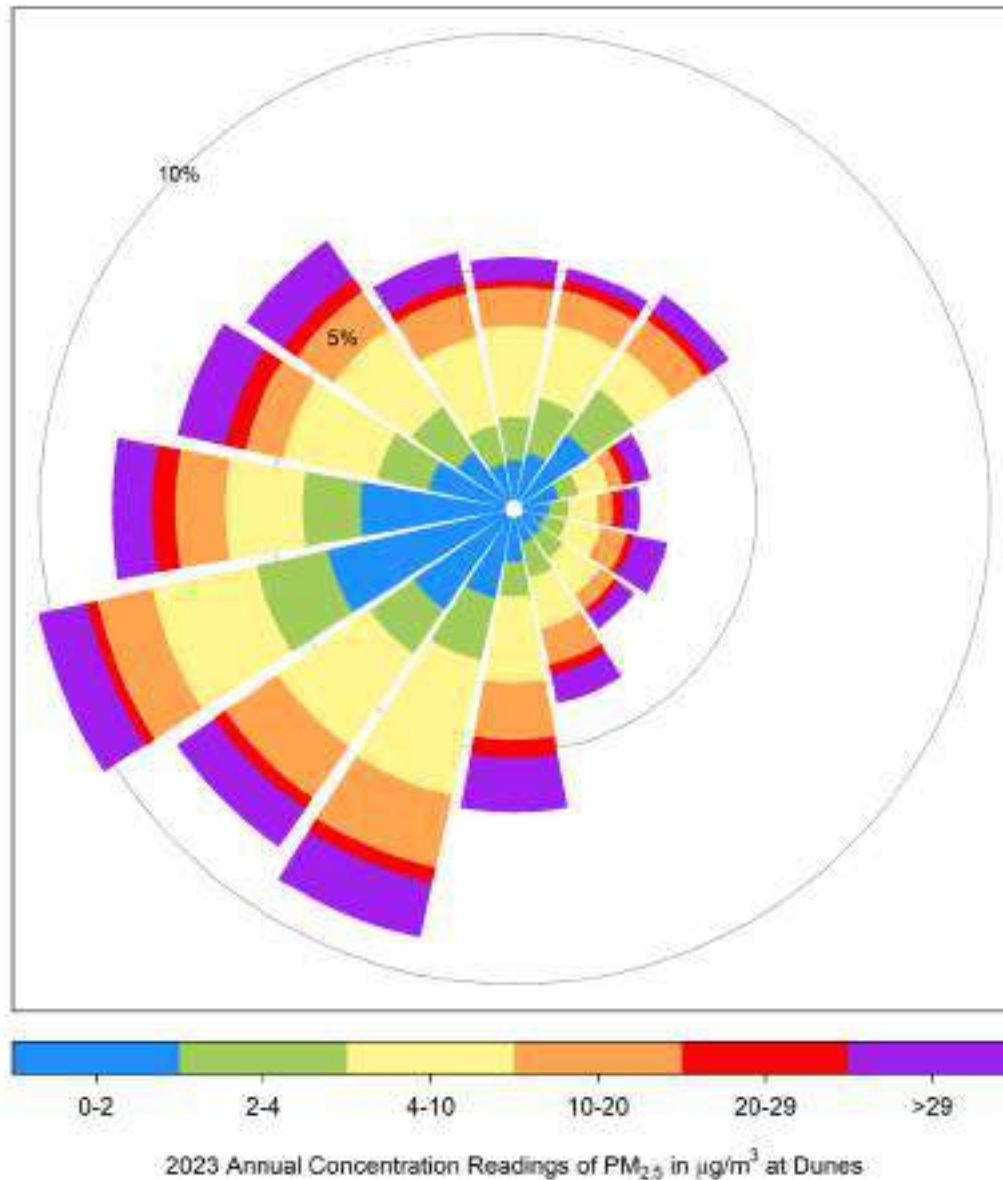
2023 Daily Concentration Readings of PM<sub>2.5</sub> in  $\mu\text{g}/\text{m}^3$  at Dunes





## Hourly Maximum PM<sub>2.5</sub> (in µg/m<sup>3</sup>) for 2023 at Dunes



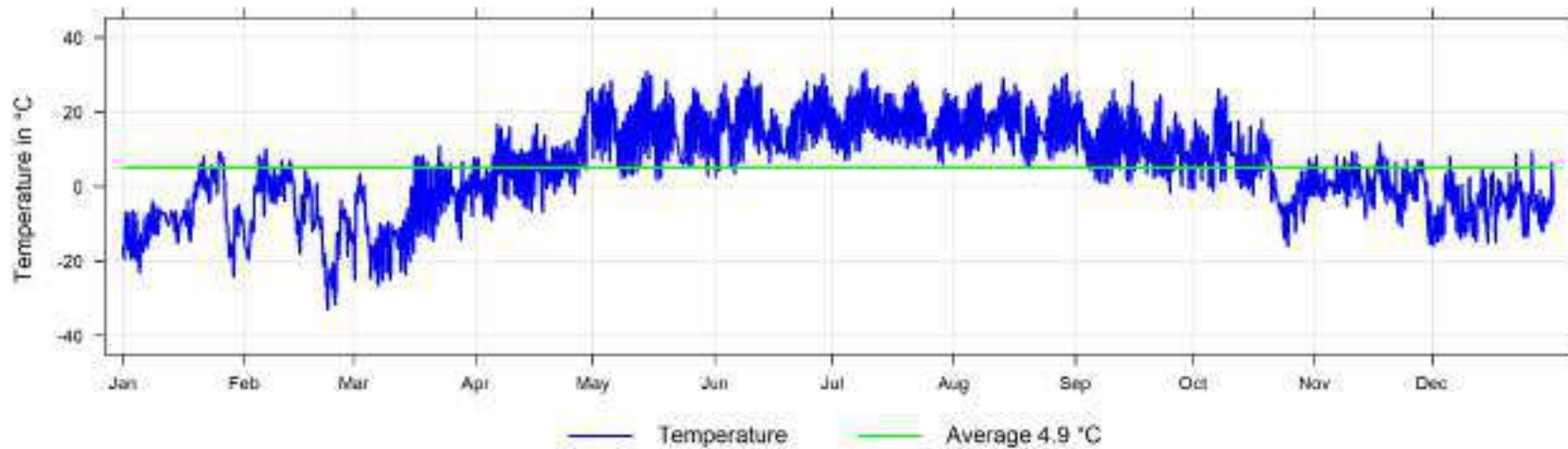


## 5.4 Temperature (ET) - Dunes 2023 Summary

Temperature (ET) Frequency Distribution at Dunes

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)			
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date	
January 2023	744	-7.7	6.1	Jan 26	9.3	Jan 25 22:00	-18.3	Jan 05	-24.1	Jan 29 09:00	100.0%	100.0%	
February 2023	672	-7.5	3.7	Feb 12	10.2	Feb 06 16:00	-26.6	Feb 22	-33.0	Feb 22 08:00	100.0%	100.0%	
March 2023	744	-7.6	0.4	Mar 31	11.0	Mar 22 17:00	-18.8	Mar 06	-26.4	Mar 07 04:00	100.0%	100.0%	
April 2023	705	5.3	16.0	Apr 29	26.5	Apr 30 17:00	-2.8	Apr 04	-9.2	Apr 05 06:00	97.9%	97.9%	
May 2023	744	15.0	20.6	May 14	30.7	May 14 17:00	7.0	May 23	1.8	May 17 06:00	100.0%	100.0%	
June 2023	718	16.7	21.6	Jun 09	30.6	Jun 09 17:00	9.6	Jun 18	2.4	Jun 01 05:00	100.0%	99.7%	
July 2023	744	17.3	23.2	Jul 09	31.2	Jul 09 15:00	11.4	Jul 25	5.9	Jul 29 06:00	100.0%	100.0%	
August 2023	742	16.8	22.8	Aug 13	30.1	Aug 29 18:00	11.2	Aug 18	4.7	Aug 20 06:00	100.0%	99.7%	
September 2023	720	10.9	18.5	Sep 02	28.2	Sep 15 16:00	3.9	Sep 30	-1.7	Sep 25 06:00	100.0%	100.0%	
October 2023	744	4.3	15.7	Oct 07	26.1	Oct 07 16:00	-9.5	Oct 25	-16.2	Oct 25 08:00	100.0%	100.0%	
November 2023	720	0.1	7.4	Nov 17	11.7	Nov 17 16:00	-11.9	Nov 30	-15.4	Nov 30 09:00	100.0%	100.0%	
December 2023	744	-5.4	1.8	Dec 26	9.7	Dec 26 11:00	-12.2	Dec 01	-16.0	Dec 01 09:00	100.0%	100.0%	
		<b>AVERAGE</b>	<b>MAXIMUM VALUES</b>			<b>MINIMUM VALUES</b>							
		<b>8741</b>	<b>4.9</b>	<b>23.2</b>	<b>Jul 09</b>	<b>31.2</b>	<b>Jul 09 15:00</b>	<b>-26.6</b>	<b>Feb 22</b>	<b>-33.0</b>	<b>Feb 22 08:00</b>	<b>99.8%</b>	<b>99.8%</b>

2023 Hourly Temperature Readings (in °C) at Dunes

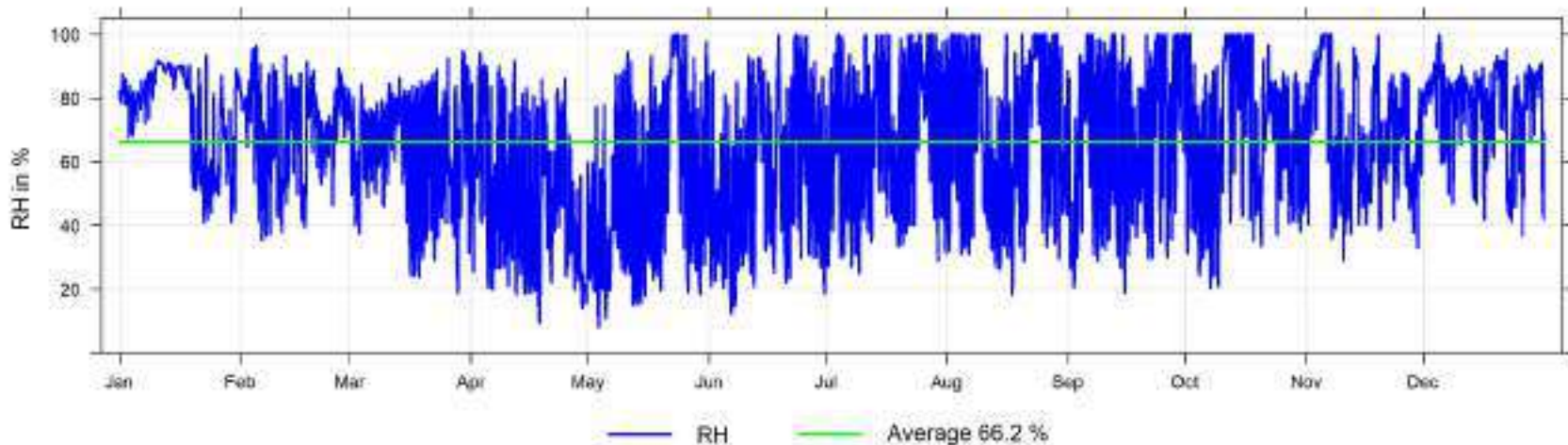


## 5.5 Relative Humidity (RH) - Dunes 2023 Summary

Relative Humidity (RH) Frequency Distribution at Dunes

Month	Valid Hours	Monthly Average (%)	Maximum Values		Date	Operational time (%)	Valid time (%)		
			24-hr (%)	1-hr (%)					
January 2023	744	76.1	90.9	Jan 11	93.5	Jan 23 06:00	100.0%	100.0%	
February 2023	672	70.8	85.9	Feb 04	96.4	Feb 05 01:00	100.0%	100.0%	
March 2023	744	64.7	79.1	Mar 13	94.9	Mar 30 01:00	100.0%	100.0%	
April 2023	705	50.0	78.4	Apr 04	94.2	Apr 03 09:00	97.9%	97.9%	
May 2023	744	52.8	97.0	May 23	99.9	May 24 01:00	100.0%	100.0%	
June 2023	718	56.1	80.6	Jun 13	99.9	Jun 23 06:00	100.0%	99.7%	
July 2023	744	69.2	91.6	Jul 25	99.9	Jul 04 02:00	100.0%	100.0%	
August 2023	742	68.6	97.6	Aug 23	99.9	Aug 02 06:00	100.0%	99.7%	
September 2023	720	69.1	93.0	Sep 30	99.9	Sep 06 00:00	100.0%	100.0%	
October 2023	744	69.6	96.5	Oct 11	99.9	Oct 01 01:00	100.0%	100.0%	
November 2023	720	69.3	99.4	Nov 05	99.9	Nov 05 06:00	100.0%	100.0%	
December 2023	744	77.6	87.2	Dec 30	99.8	Dec 05 05:00	100.0%	100.0%	
		<b>AVERAGE</b>	<b>MAXIMUM VALUES</b>						
		<b>8741</b>	<b>66.2</b>	<b>99.4</b>	<b>Nov 05</b>	<b>99.9</b>	<b>May 24 01:00</b>	<b>99.8%</b>	<b>99.8%</b>

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

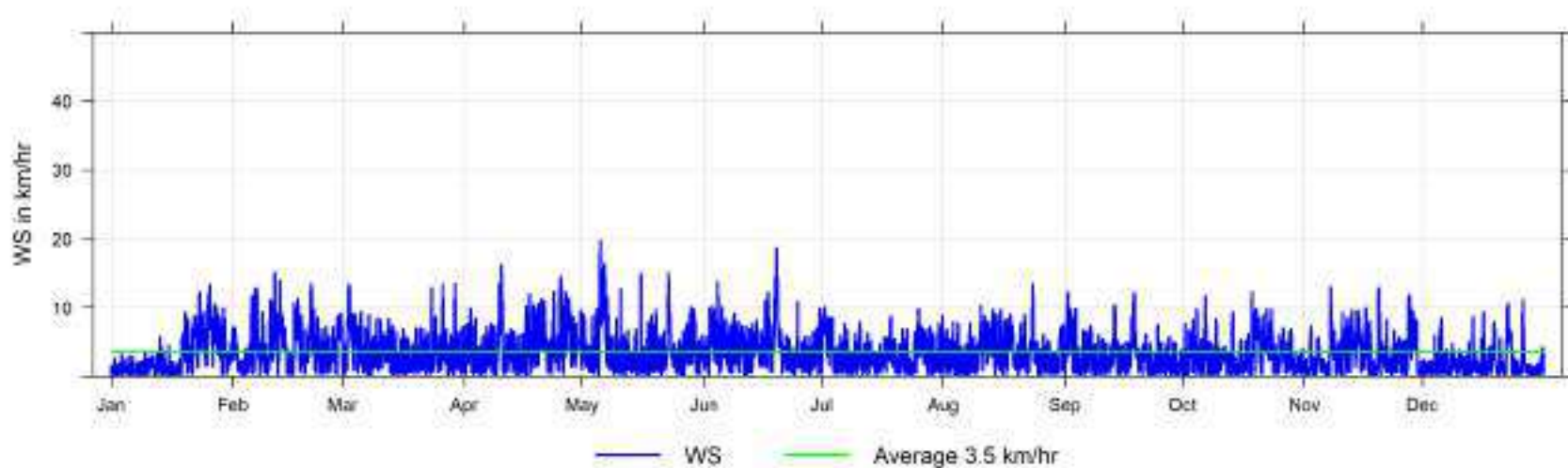


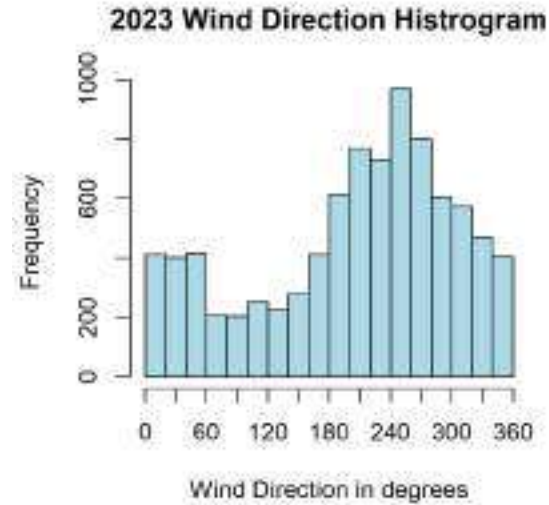
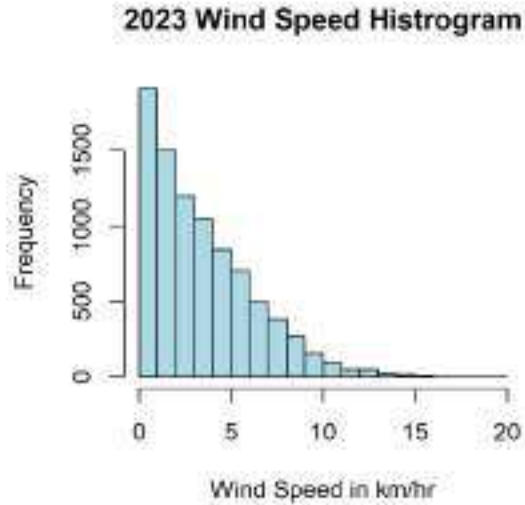
## 5.6 Wind Speed and Wind Direction (WS and WD) - Dunes 2023 Summary

Wind Speed Frequency Distribution at Dunes

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (km/hr)	24-hr (km/hr)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
		Calm	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)			Date	1-hr (km/hr)	Date		
January 2023	744	12.2%	64.8%	21.4%	1.6%	0.0%	0.0%	3.0	7.6	Jan 27	13.3	Jan 26 01:00	100.0%	100.0%
February 2023	672	5.4%	57.6%	33.5%	3.6%	0.0%	0.0%	4.3	8.0	Feb 13	15.1	Feb 11 16:00	100.0%	100.0%
March 2023	744	7.3%	63.3%	27.4%	2.0%	0.0%	0.0%	3.6	9.5	Mar 02	13.4	Mar 29 15:00	100.0%	100.0%
April 2023	705	6.7%	53.6%	36.2%	3.5%	0.0%	0.0%	4.5	8.4	Apr 10	16.1	Apr 10 11:00	97.9%	97.9%
May 2023	744	6.0%	67.5%	21.9%	4.4%	0.1%	0.0%	3.9	11.3	May 06	19.7	May 05 15:00	100.0%	100.0%
June 2023	718	3.9%	61.6%	31.5%	3.1%	0.0%	0.0%	4.3	12.3	Jun 19	18.7	Jun 19 13:00	100.0%	99.7%
July 2023	744	6.6%	71.0%	22.4%	0.0%	0.0%	0.0%	3.2	6.8	Jul 01	10.0	Jul 01 18:00	100.0%	100.0%
August 2023	742	8.5%	66.7%	24.4%	0.4%	0.0%	0.0%	3.5	6.4	Aug 23	13.4	Aug 23 20:00	100.0%	99.7%
September 2023	720	11.0%	73.6%	15.0%	0.4%	0.0%	0.0%	3.0	7.7	Sep 18	12.2	Sep 01 16:00	100.0%	100.0%
October 2023	744	11.2%	67.7%	20.7%	0.4%	0.0%	0.0%	3.1	6.0	Oct 19	12.2	Oct 18 15:00	100.0%	100.0%
November 2023	720	10.4%	63.2%	25.3%	1.1%	0.0%	0.0%	3.4	6.3	Nov 27	12.9	Nov 07 16:00	100.0%	100.0%
December 2023	744	18.5%	71.4%	9.9%	0.1%	0.0%	0.0%	2.0	5.3	Dec 22	11.2	Dec 26 16:00	100.0%	100.0%
<b>Annual</b>	<b>8741</b>	<b>9.0%</b>	<b>65.2%</b>	<b>24.1%</b>	<b>1.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.5</b>	<b>12.3</b>	<b>MAXIMUM VALUES</b>			<b>99.8%</b>	<b>99.8%</b>

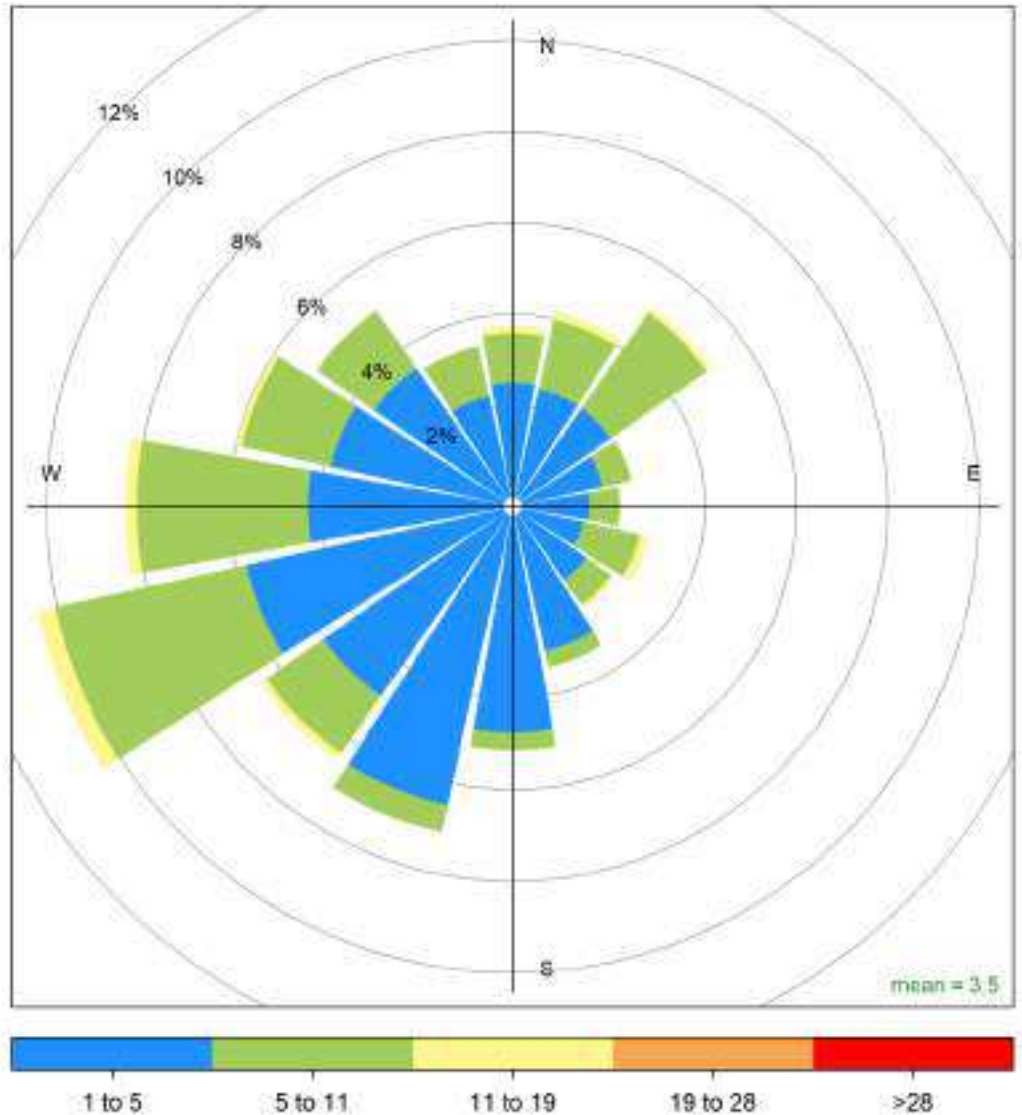
2023 Hourly Readings of Wind Speed (in km/hr) at Dunes





**Wind Speed and Wind Direction Frequency Distribution at Dunes**

Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	458	0.5%	3.5%	1.1%	0.2%	0.0%	0.0%	5.2%
NNE	459	0.4%	3.1%	1.6%	0.2%	0.0%	0.0%	5.3%
NE	489	0.2%	2.7%	2.6%	0.1%	0.0%	0.0%	5.6%
ENE	252	0.2%	2.0%	0.6%	0.0%	0.0%	0.0%	2.9%
E	226	0.2%	1.7%	0.7%	0.0%	0.0%	0.0%	2.6%
ESE	278	0.3%	1.4%	1.3%	0.2%	0.0%	0.0%	3.2%
SE	262	0.2%	2.1%	0.7%	0.1%	0.0%	0.0%	3.0%
SSE	361	0.3%	3.5%	0.4%	0.0%	0.0%	0.0%	4.1%
S	568	0.4%	5.7%	0.4%	0.0%	0.0%	0.0%	6.5%
SSW	824	0.9%	8.0%	0.6%	0.0%	0.0%	0.0%	9.4%
SW	805	0.9%	6.6%	1.5%	0.2%	0.0%	0.0%	9.2%
WSW	1090	1.1%	6.7%	4.3%	0.4%	0.0%	0.0%	12.5%
W	890	1.0%	5.2%	3.7%	0.3%	0.0%	0.0%	10.2%
WNW	678	0.9%	4.7%	2.0%	0.1%	0.0%	0.0%	7.8%
NW	619	0.9%	4.7%	1.5%	0.0%	0.0%	0.0%	7.1%
NNW	482	0.8%	3.6%	1.1%	0.0%	0.0%	0.0%	5.5%
<b>Total</b>	<b>8741</b>	<b>9.0%</b>	<b>65.3%</b>	<b>24.0%</b>	<b>1.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>



Dunes 2023 Wind Rose, wind speed in km/hr  
**Calms (<1km/hr) = 21.8 %**

## 6 Fox Creek Key Parameters - Continuous Monitoring Data - 2023 Summary

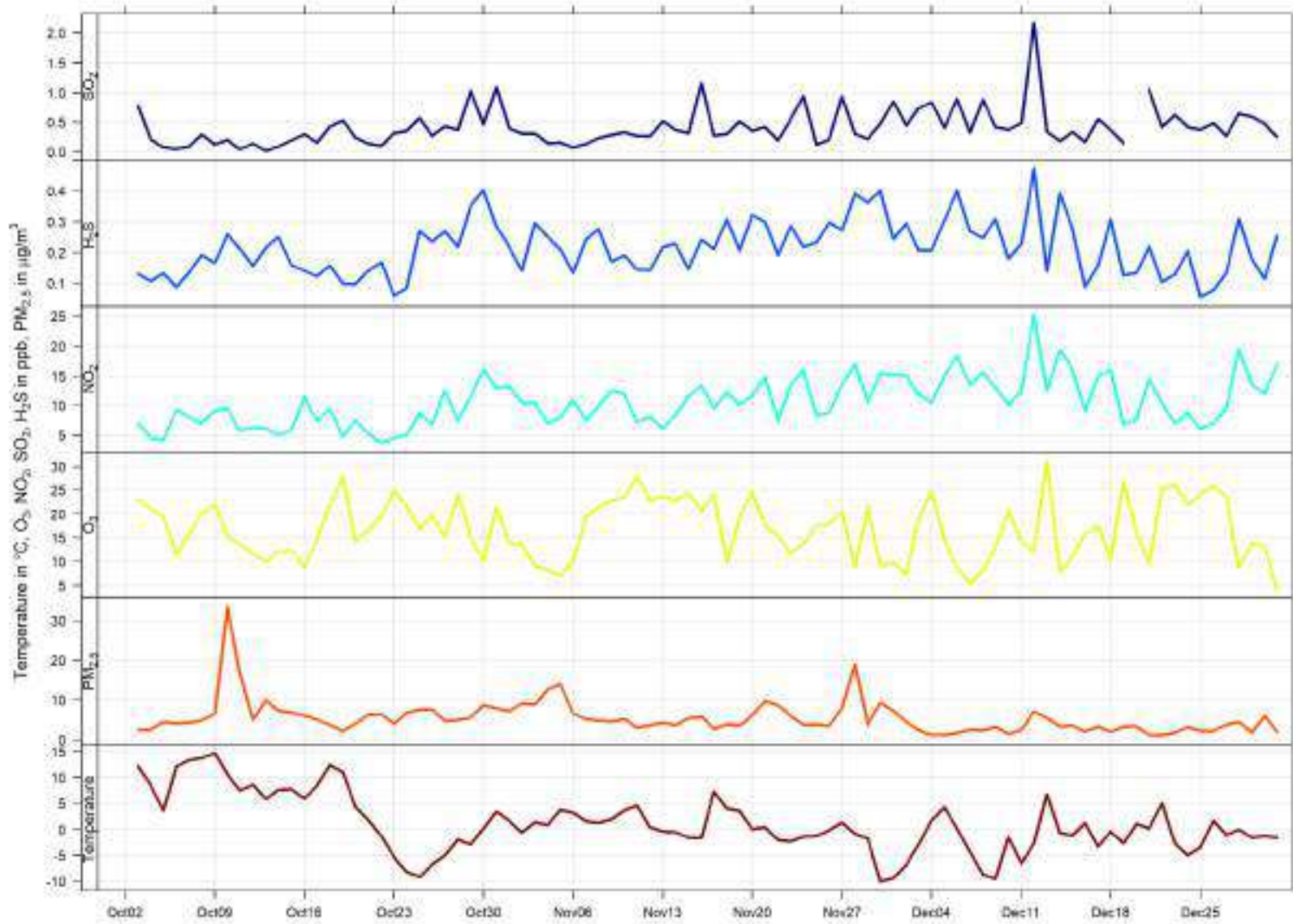
Fox Creek Key Parameters - Continuous Monitoring Data - 2023 Summary

Fox Creek Station	Parameter	Average	Maximum Values				Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG				
			24-hr	Date	1-hr	Date			1-hr	8-hr	24-hr	30-d	Annual
			Sulphur Dioxide SO <sub>2</sub> measured in ppb	2.2	Dec 12	29.1			Dec 12 08:00	24.2%	22.5%	0	-
Hydrogen Sulphide H <sub>2</sub> S measured in ppb	0.5	Dec 12	1.6	Oct 30 22:00	24.9%	23.1%	0	-	0	-	-		
Nitrogen Dioxide NO <sub>2</sub> measured in ppb	25.3	Dec 12	45.0	Dec 12 12:00	24.9%	23.1%	0	-	-	-	0		
Nitrogen Oxides NO <sub>x</sub> measured in ppb	65.4	Dec 12	197.3	Dec 12 12:00	24.9%	23.1%	-	-	-	-	-		
Nitric Oxide NO measured in ppb	39.8	Dec 12	152.9	Dec 12 12:00	24.9%	23.1%	-	-	-	-	-		
Ozone O <sub>3</sub> measured in ppb	31.5	Dec 13	45.0	Oct 09 16:00	24.8%	23.0%	0	-	-	-	-		
Particulate Matter PM <sub>2.5</sub> measured in µg/m <sup>3</sup>	32.5	Oct 10	74.7	Oct 10 14:00	25.0%	24.2%	0	-	1	-	-		

Note: Fox Creek began monitoring in October of 2023, annual averages are not valid due to valid time <75%

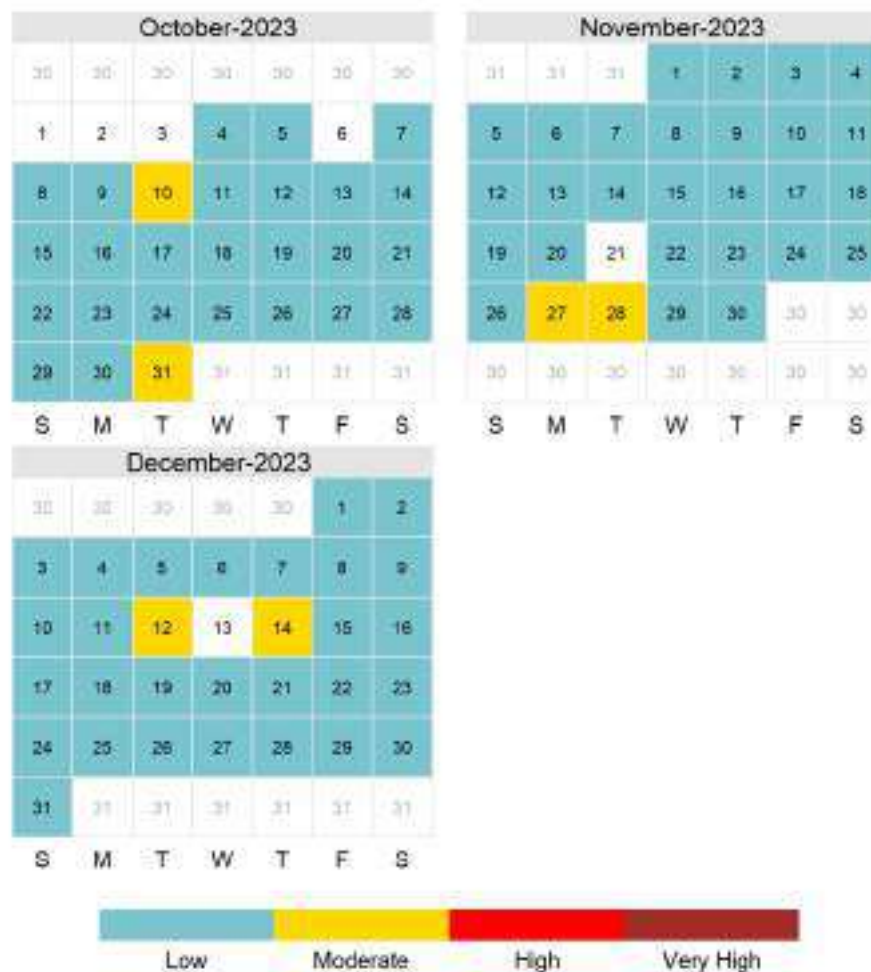


2023 Daily Concentration Readings at Fox Creek



## 6.1 Fox Creek AQHI Calendar Plot for 2023

Hourly Maximum AQHI for 2023 at Fox Creek



## 6.2 Sulphur Dioxide (SO<sub>2</sub>) - Fox Creek 2023 Summary

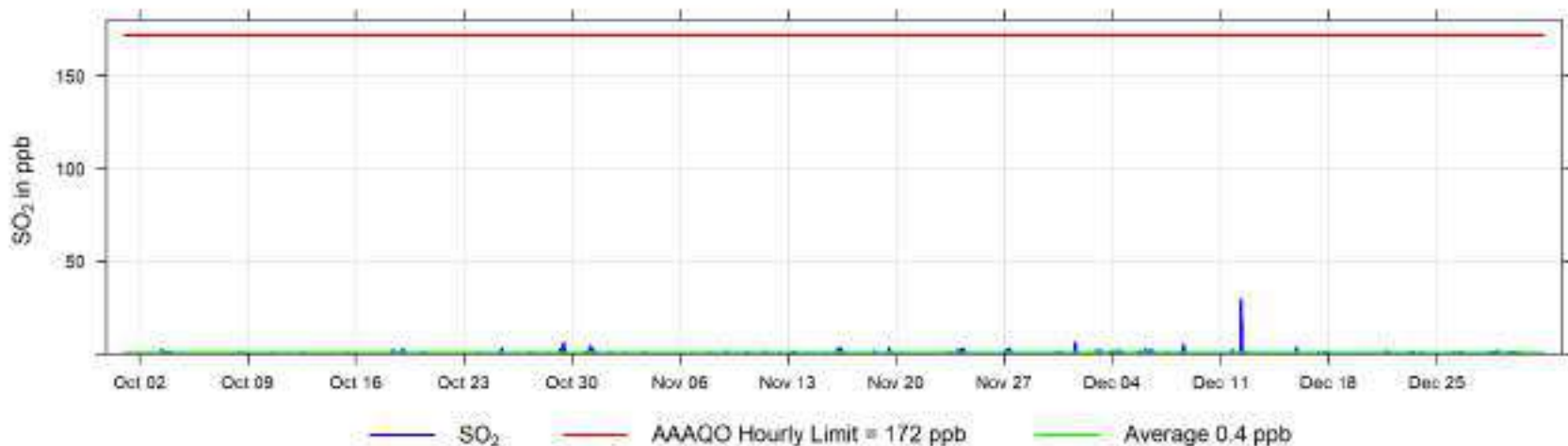
Sulphur Dioxide (SO<sub>2</sub>) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2023																	
February 2023																	
March 2023																	
April 2023																	
May 2023																	
June 2023																	
July 2023																	
August 2023																	
September 2023																	
October 2023	652	95.6%	4.3%	0.2%	0.0%	0.0%	0.0%	0.3	1.1	Oct 31	5.9	Oct 29 11:00	99.0%	87.6%	0	0	0
November 2023	685	94.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.4	1.1	Nov 16	3.0	Nov 19 13:00	100.0%	95.1%	0	0	0
December 2023	650	91.5%	8.0%	0.3%	0.2%	0.0%	0.0%	0.6	2.2	Dec 12	29.1	Dec 12 08:00	91.8%	87.4%	0	0	0
<b>Annual</b>	<b>1987</b>	<b>93.7%</b>	<b>6.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4</b>	<b>2.2</b>	<b>MAXIMUM VALUES</b>		<b>Dec 12</b>	<b>29.1</b>	<b>Dec 12 08:00</b>	<b>0</b>	<b>0</b>	<b>0</b>

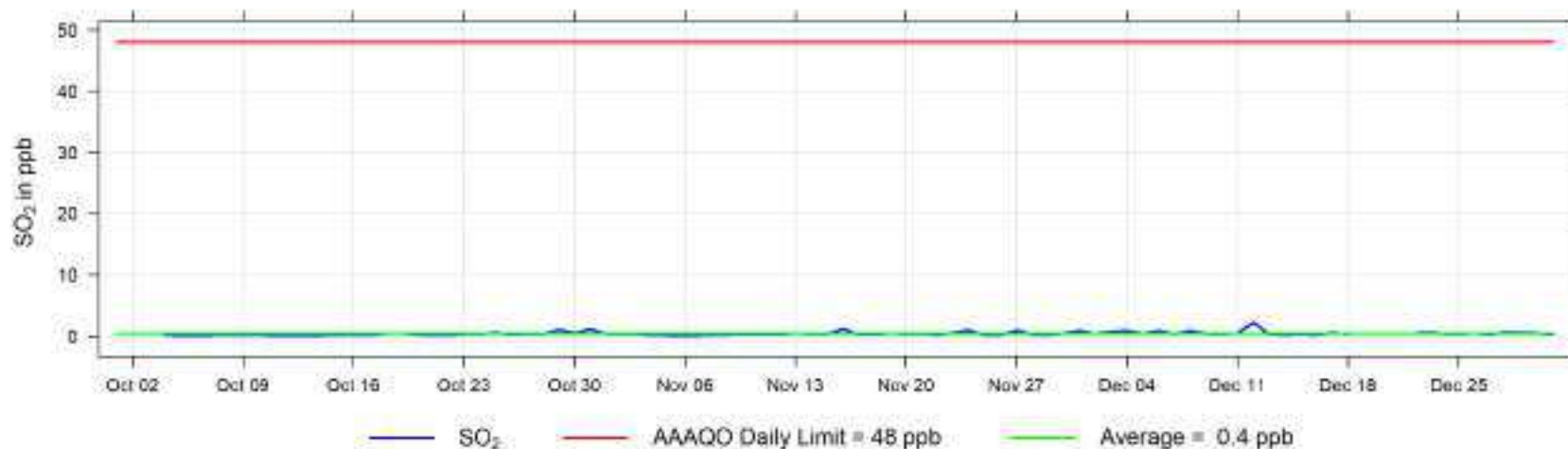
AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

Note average shown for reference only, not a valid annual average

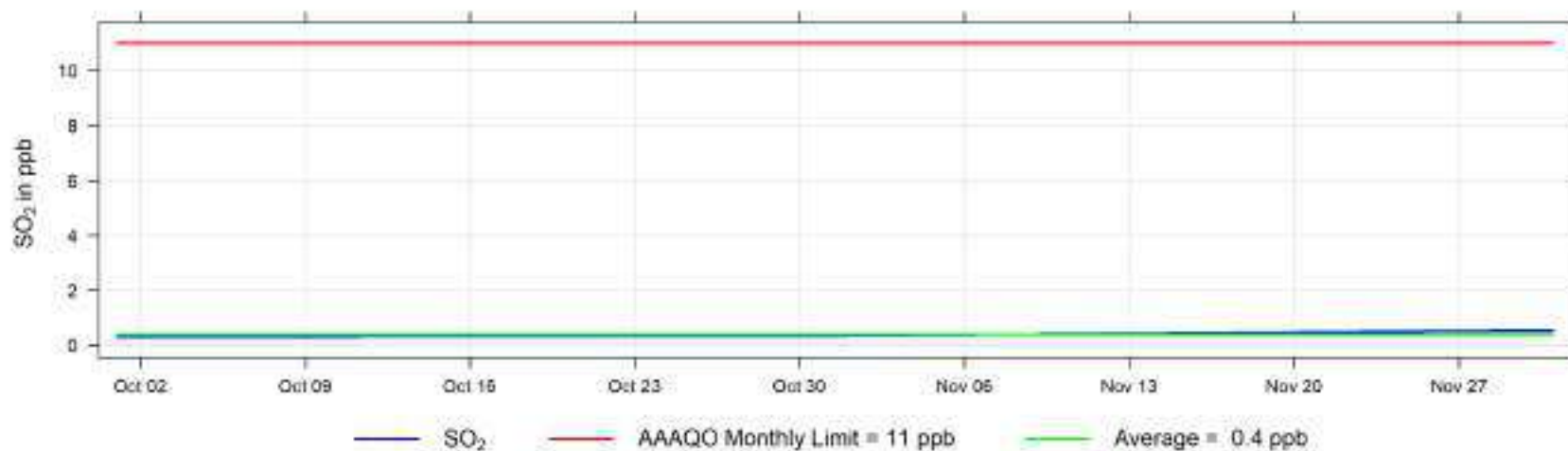
2023 Hourly Concentration Readings of SO<sub>2</sub> (in ppb) at Fox Creek



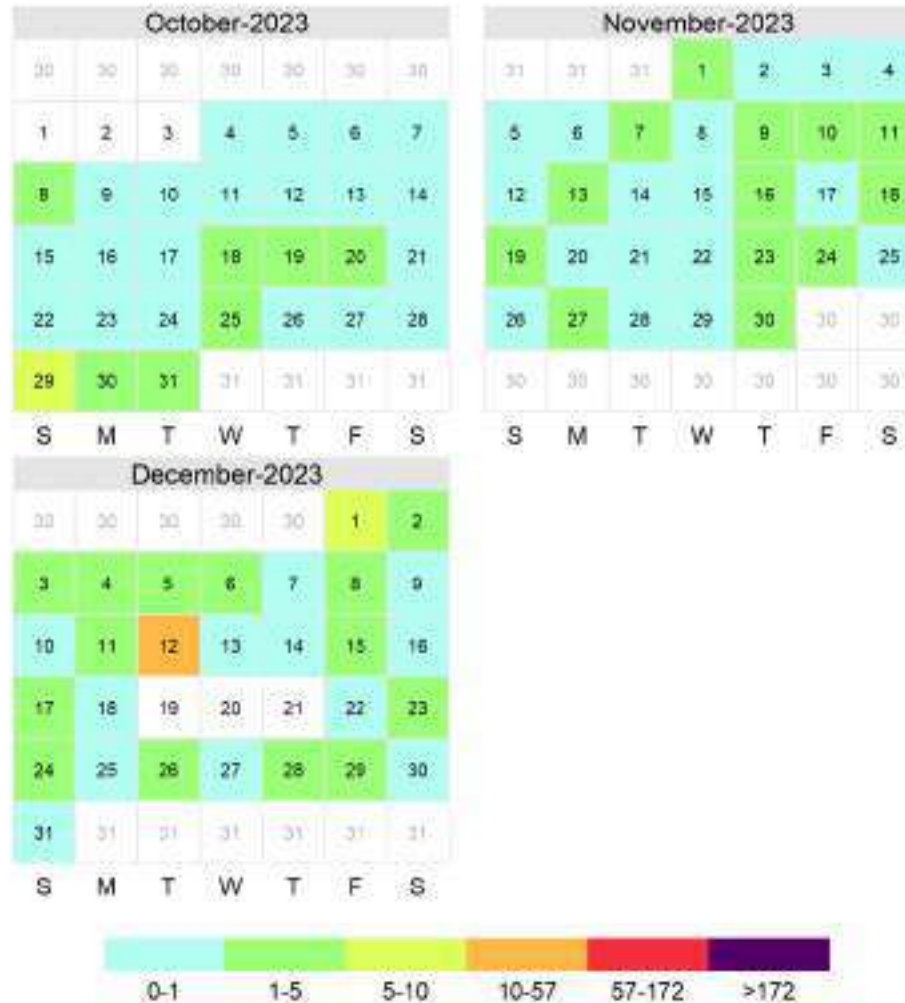
2023 Daily Concentration Readings of SO<sub>2</sub> (in ppb) at Fox Creek

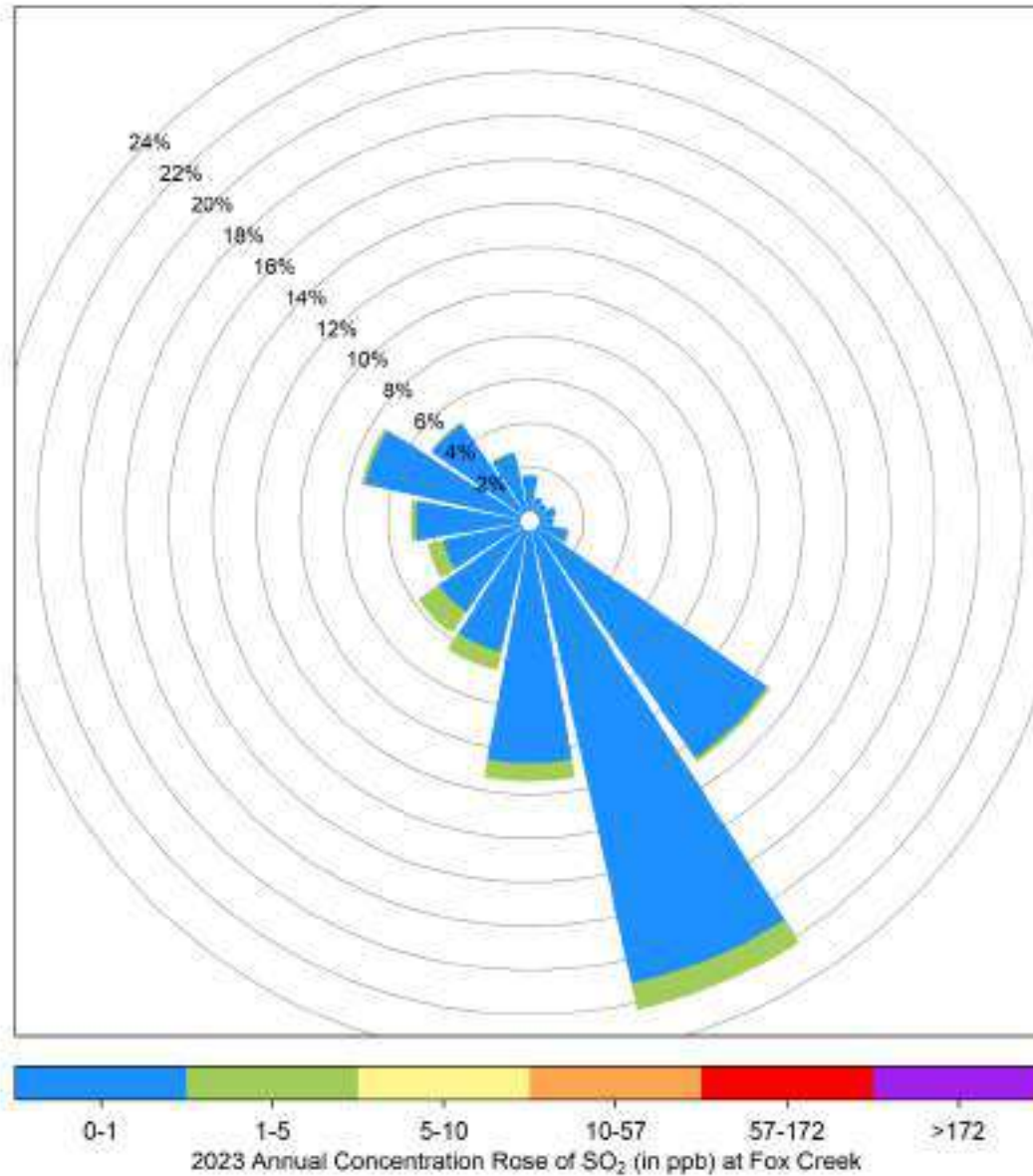


2023 Monthly Concentration Readings of SO<sub>2</sub> (in ppb) at Fox Creek



### Hourly Maximum SO<sub>2</sub> (in ppb) for 2023 at Fox Creek





### 6.3 Hydrogen Sulphide (H<sub>2</sub>S) - Fox Creek 2023 Summary

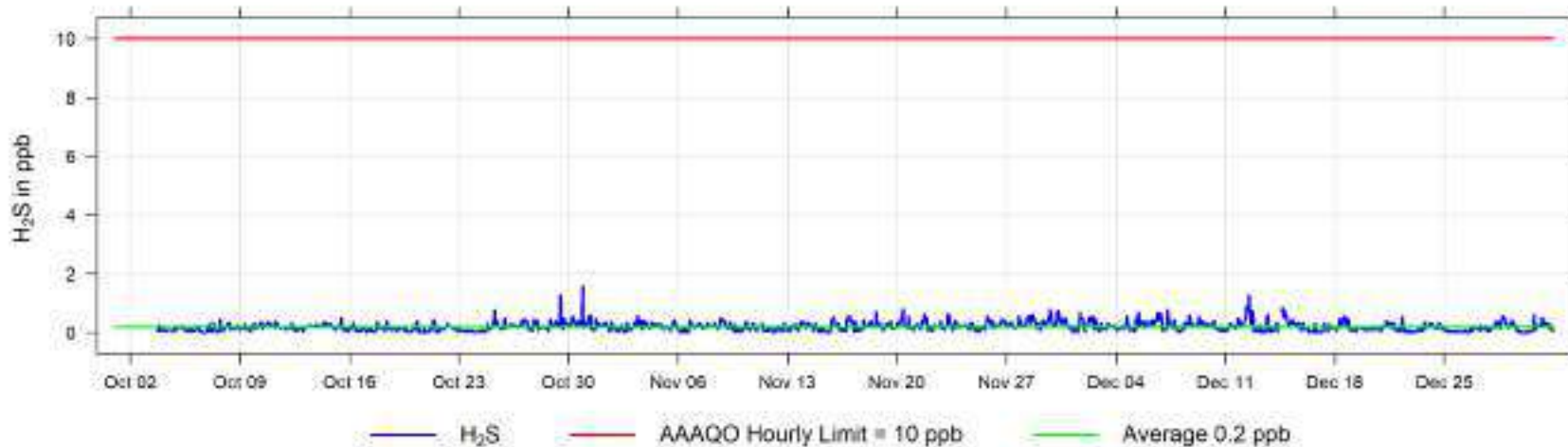
Hydrogen Sulphide (H<sub>2</sub>S) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 1 (ppb)	1 to 3 (ppb)	3 to 5 (ppb)	5 to 8 (ppb)	8 to 10 (ppb)	> 10 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			24-hr 3 ppb	1-hr 10 ppb
January 2023																
February 2023																
March 2023																
April 2023																
May 2023																
June 2023																
July 2023																
August 2023																
September 2023																
October 2023	645	99.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Oct 30	1.6	Oct 30 22:00	99.0%	86.7%	0	0
November 2023	686	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Nov 30	0.8	Nov 20 10:00	100.0%	95.3%	0	0
December 2023	709	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	Dec 12	1.3	Dec 12 12:00	100.0%	95.3%	0	0
<b>Annual</b>	<b>2040</b>	<b>99.8%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2</b>	<b>0.5</b>	<b>Dec 12</b>	<b>1.6</b>	<b>Oct 30 22:00</b>			<b>0</b>	<b>0</b>

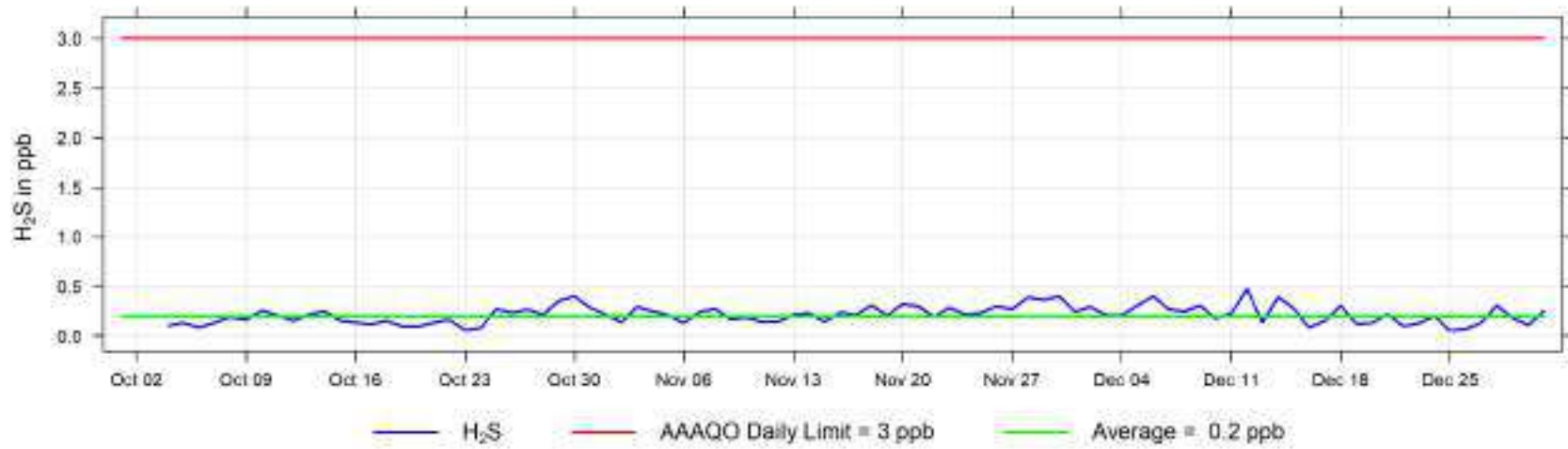
AAAQO Objectives: 24-Hr: 3ppb, 1-Hr: 10ppb

Note average shown for reference only, not a valid annual average

2023 Hourly Concentration Readings of H<sub>2</sub>S (in ppb) at Fox Creek

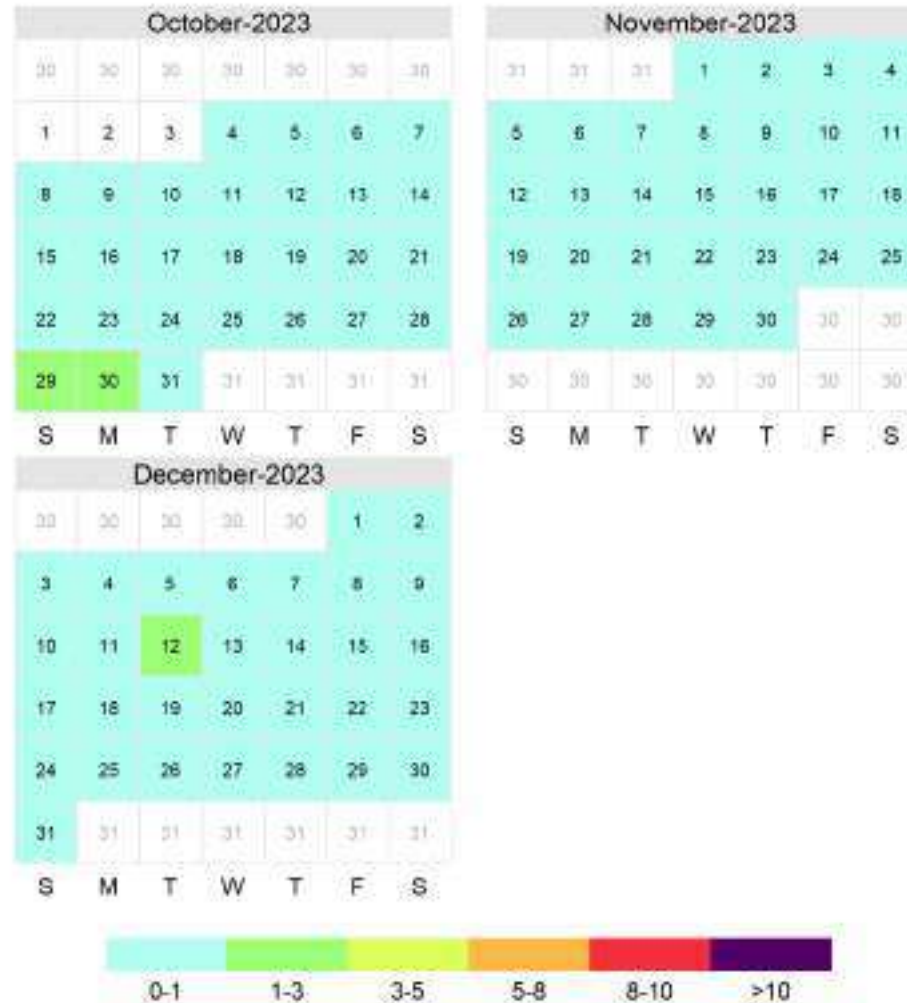


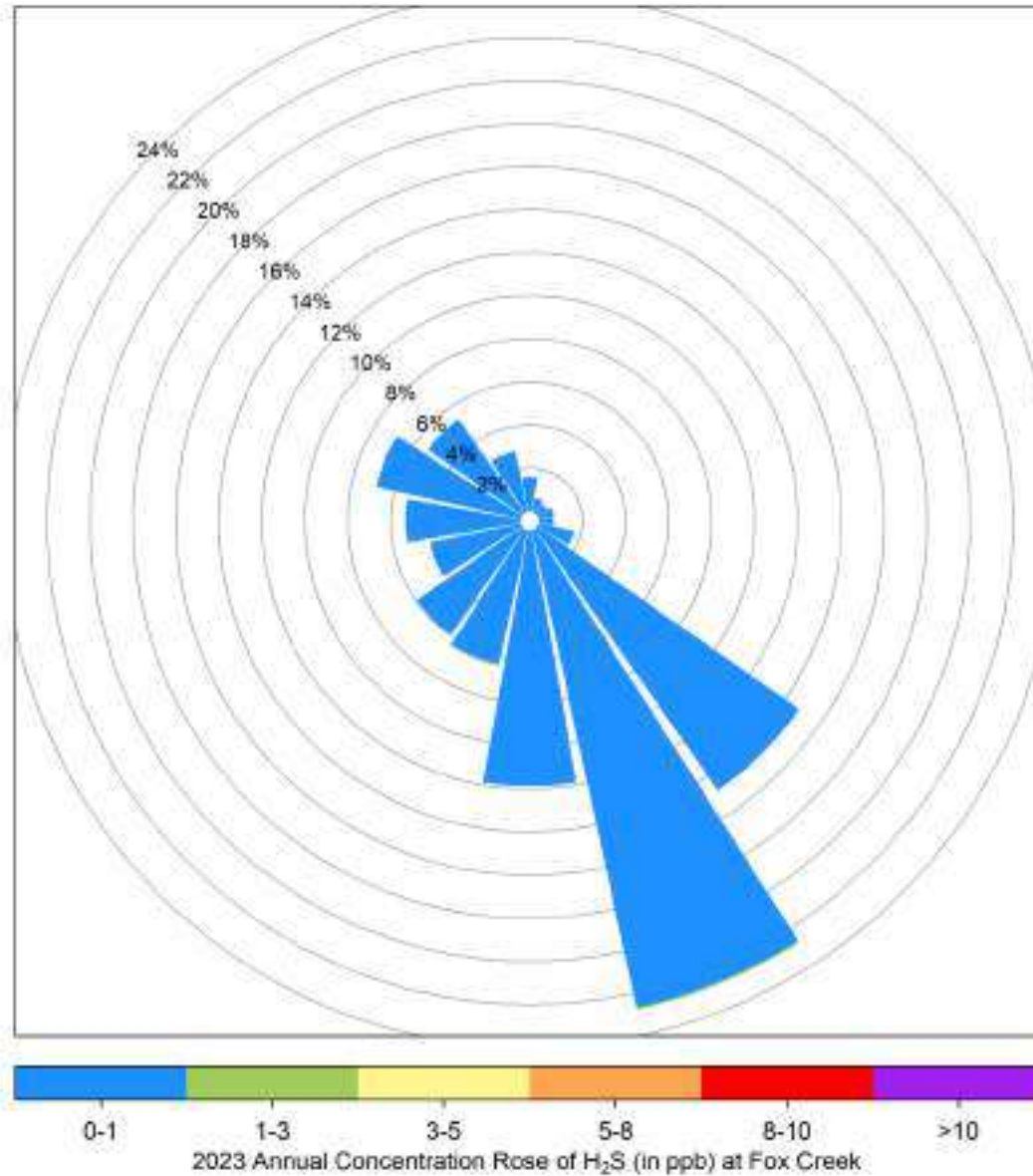
2023 Daily Concentration Readings of H<sub>2</sub>S (in ppb) at Fox Creek





### Hourly Maximum H<sub>2</sub>S (in ppb) for 2023 at Fox Creek





## 6.4 Nitrogen Dioxide (NO<sub>2</sub>) - Fox Creek 2023 Summary

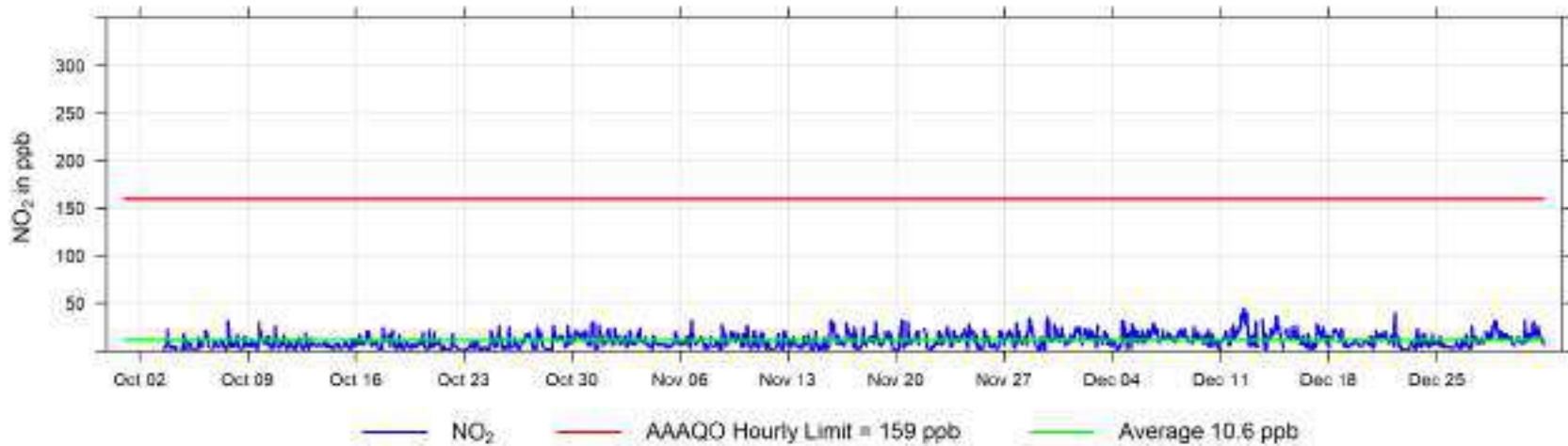
Nitrogen Dioxide (NO<sub>2</sub>) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES			Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 159 ppb
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb)	Date			
January 2023															
February 2023															
March 2023															
April 2023															
May 2023															
June 2023															
July 2023															
August 2023															
September 2023															
October 2023	647	42.8%	43.7%	12.8%	0.6%	0.0%	0.0%	7.7	15.9	Oct 30	31.5	Oct 07 18:00	98.6%	87.0%	0
November 2023	683	22.7%	52.0%	23.6%	1.8%	0.0%	0.0%	10.8	16.9	Nov 28	35.5	Nov 29 19:00	100.0%	94.9%	0
December 2023	707	14.3%	50.8%	31.7%	3.3%	0.0%	0.0%	13.0	25.3	Dec 12	45.0	Dec 12 12:00	100.0%	95.0%	0
<b>Annual</b>	<b>2037</b>	<b>26.6%</b>	<b>48.8%</b>	<b>22.7%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>10.6</b>	<b>25.3</b>	<b>Dec 12</b>	<b>45.0</b>	<b>Dec 12 12:00</b>			<b>0</b>

AAAQO Objectives: Annual: 24ppb, 1-Hr: 159ppb

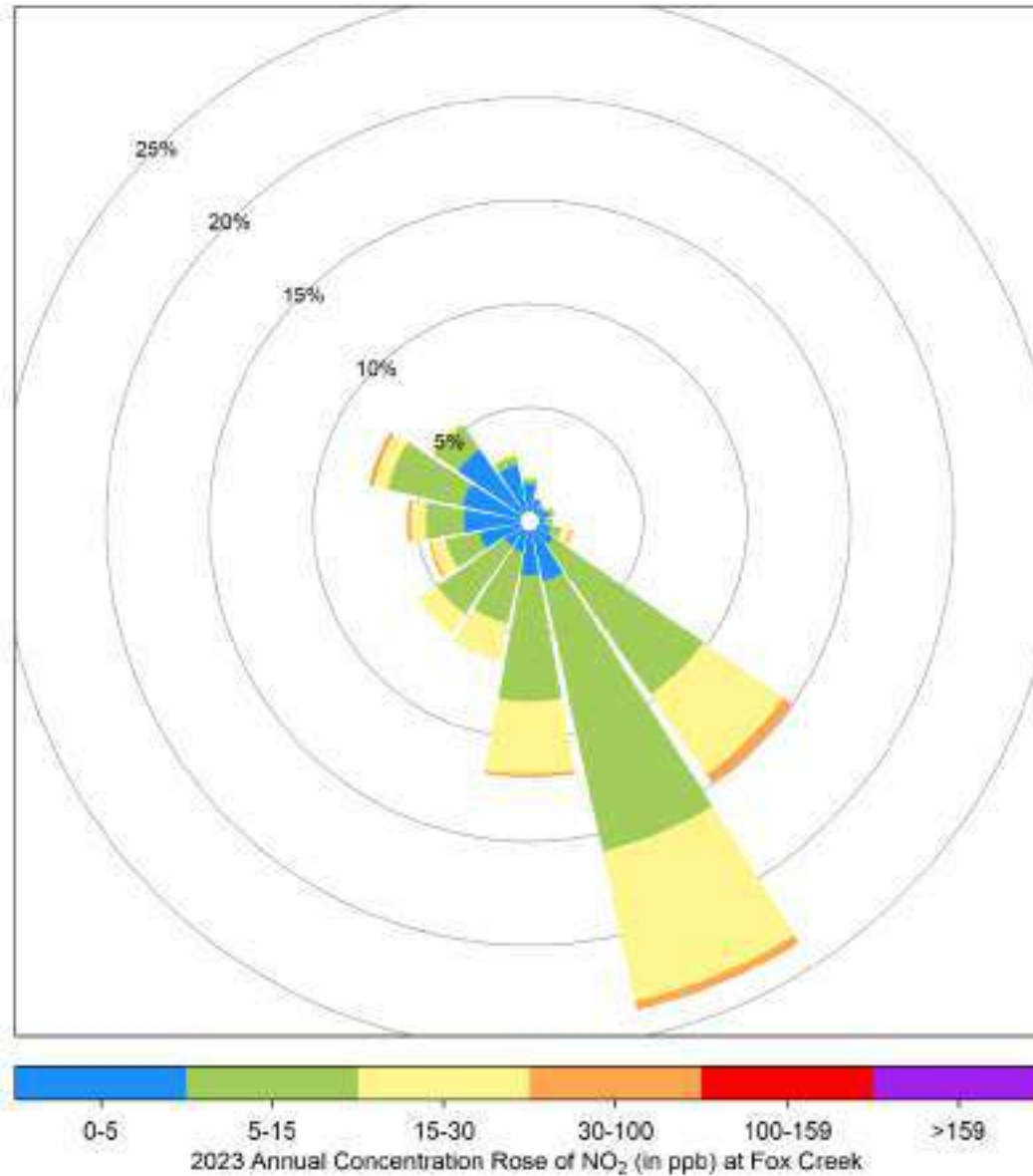
Note average shown for reference only, not a valid annual average

2023 Hourly Concentration Readings of NO<sub>2</sub> (in ppb) at Fox Creek



### Hourly Maximum NO<sub>2</sub> (in ppb) for 2023 at Fox Creek





## 6.5 Nitric Oxide (NO) - Fox Creek 2023 Summary

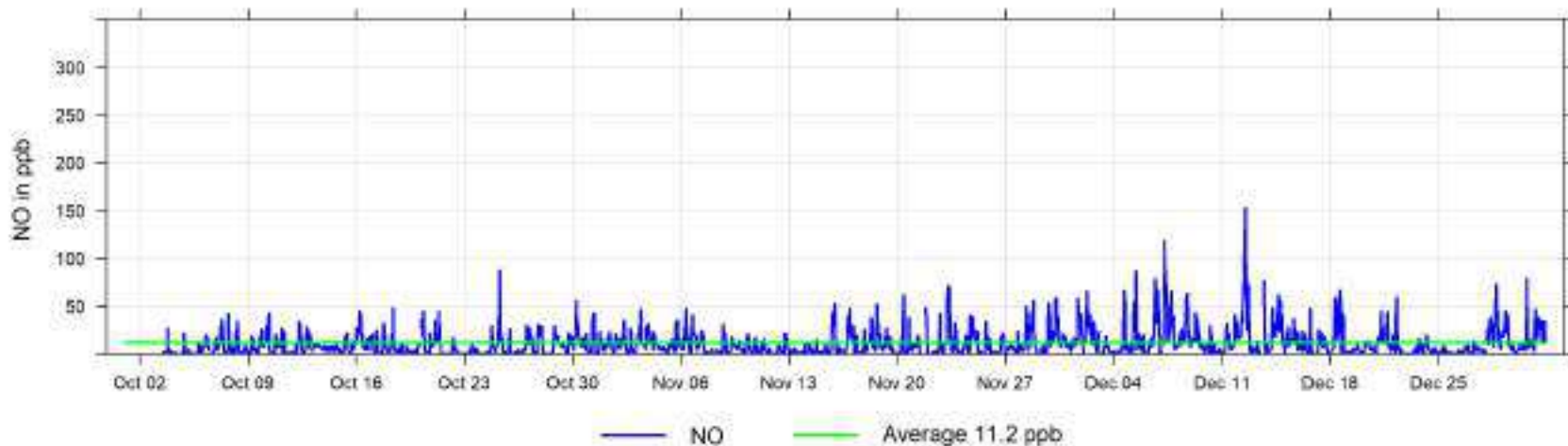
Nitric Oxide (NO) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb)	Date		
January 2023														
February 2023														
March 2023														
April 2023														
May 2023														
June 2023														
July 2023														
August 2023														
September 2023														
October 2023	647	53.5%	27.2%	15.0%	4.3%	0.0%	0.0%	8.3	16.7	Oct 30	87.5	Oct 25 07:00	98.6%	87.0%
November 2023	683	46.1%	29.4%	16.1%	8.3%	0.0%	0.0%	10.4	22.4	Nov 28	71.9	Nov 23 08:00	100.0%	94.9%
December 2023	707	39.2%	29.3%	16.3%	14.9%	0.4%	0.0%	14.6	39.8	Dec 12	152.9	Dec 12 12:00	100.0%	95.0%
<b>Annual</b>	<b>2037</b>	<b>46.3%</b>	<b>28.6%</b>	<b>15.8%</b>	<b>9.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>11.2</b>	<b>39.8</b>	<b>MAXIMUM VALUES</b>				

AAAQO Objectives: none

Note average shown for reference only, not a valid annual average

2023 Hourly Concentration Readings of NO (in ppb) at Fox Creek



## 6.6 Oxides of Nitrogen (NO<sub>x</sub>) - Fox Creek 2023 Summary

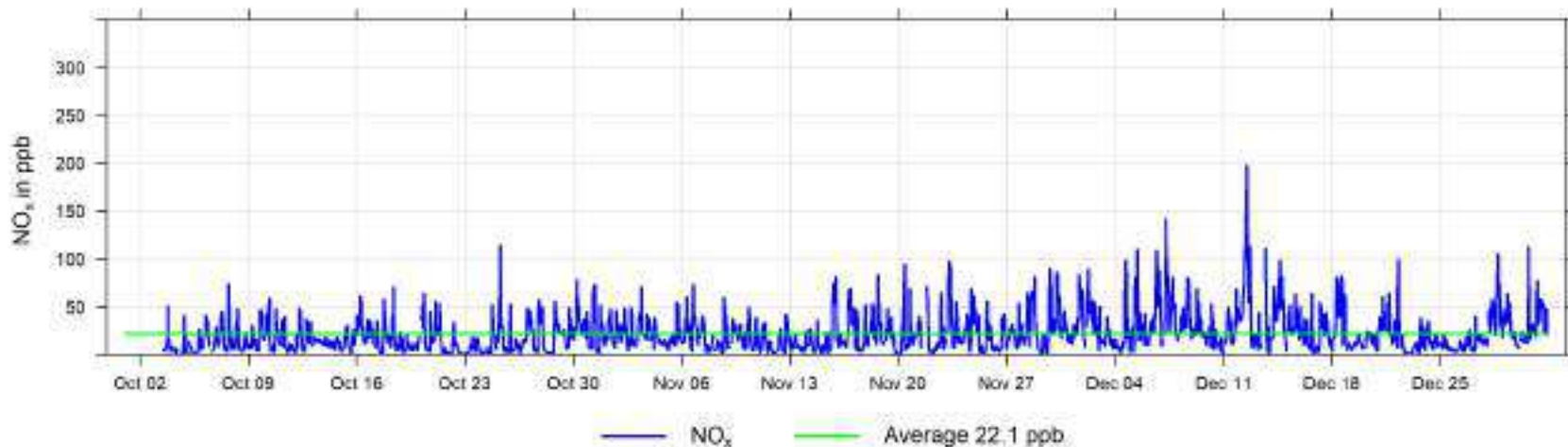
Nitrogen Oxides (NO<sub>x</sub>) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb)	Date		
January 2023														
February 2023														
March 2023														
April 2023														
May 2023														
June 2023														
July 2023														
August 2023														
September 2023														
October 2023	647	25.7%	34.3%	22.9%	17.0%	0.2%	0.0%	16.3	33.1	Oct 30	114.2	Oct 25 07:00	98.6%	87.0%
November 2023	683	14.2%	33.2%	27.8%	24.7%	0.0%	0.0%	21.5	39.5	Nov 28	97.6	Nov 23 08:00	100.0%	94.9%
December 2023	707	9.2%	26.7%	30.3%	32.0%	1.7%	0.1%	27.9	65.4	Dec 12	197.3	Dec 12 12:00	100.0%	95.0%
<b>Annual</b>	<b>2037</b>	<b>16.4%</b>	<b>31.4%</b>	<b>27.0%</b>	<b>24.6%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>22.1</b>	<b>65.4</b>	<b>MAXIMUM VALUES</b>				

AAAQO Objectives: none

Note average shown for reference only, not a valid annual average

2023 Hourly Concentration Readings of NO<sub>x</sub> (in ppb) at Fox Creek



## 6.7 Ozone (O<sub>3</sub>) - Fox Creek 2023 Summary

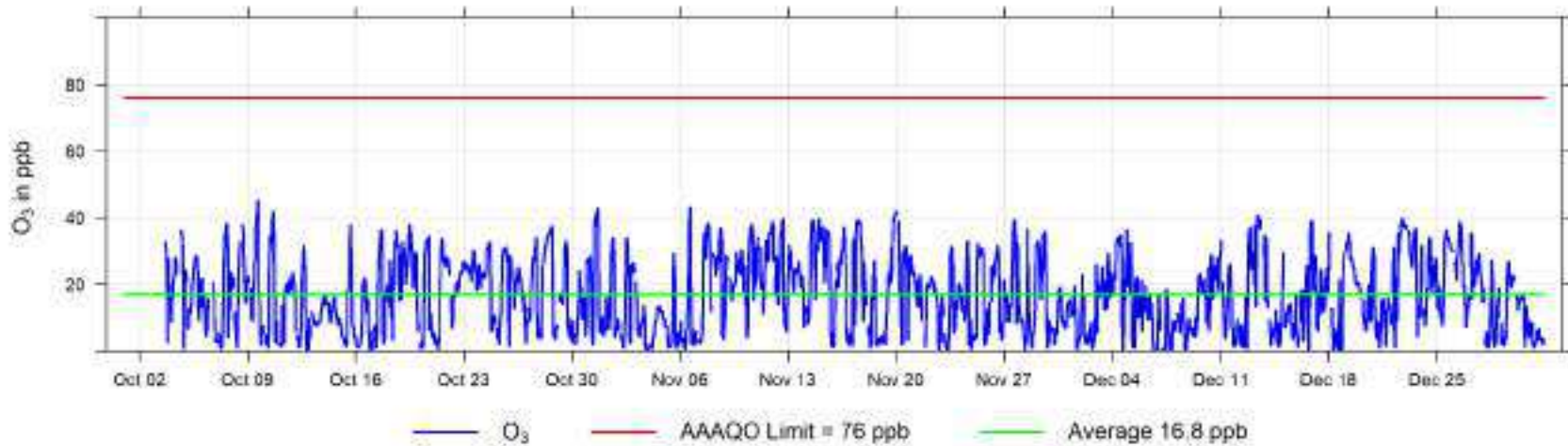
### Ozone (O<sub>3</sub>) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 76 ppb	
		0 to 10 (ppb)	10 to 20 (ppb)	20 to 40 (ppb)	40 to 60 (ppb)	60 to 76 (ppb)	> 76 (ppb)			Date	1-hr (ppb) Date				
January 2023															
February 2023															
March 2023															
April 2023															
May 2023															
June 2023															
July 2023															
August 2023															
September 2023															
October 2023	640	34.2%	23.3%	41.3%	1.3%	0.0%	0.0%	17.2	27.2	Oct 19	45.0	Oct 09 16:00	97.8%	86.0%	0
November 2023	686	36.0%	20.7%	42.3%	1.0%	0.0%	0.0%	17.5	28.3	Nov 11	43.0	Nov 06 15:00	100.0%	95.3%	0
December 2023	709	36.7%	29.1%	34.0%	0.3%	0.0%	0.0%	15.7	31.5	Dec 13	40.6	Dec 13 11:00	100.0%	95.3%	0
<b>Annual</b>	<b>2035</b>	<b>35.6%</b>	<b>24.3%</b>	<b>39.2%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>16.8</b>	<b>31.5</b>	<b>MAXIMUM VALUES</b>				<b>0</b>	

AAAQO Objectives: 1-Hr: 76ppb

Note average shown for reference only, not a valid annual average

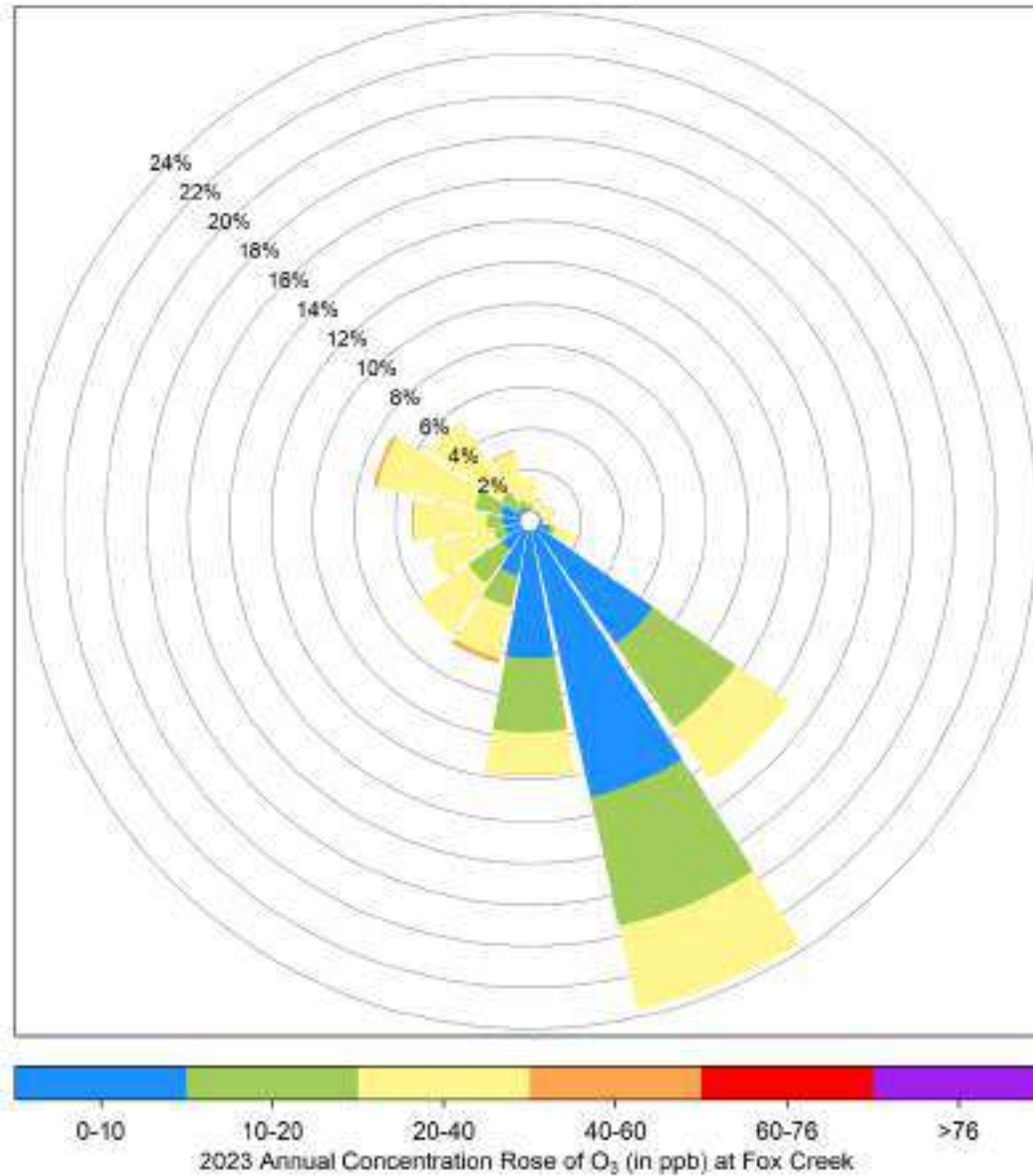
2023 Hourly Concentration Readings of O<sub>3</sub> (in ppb) at Fox Creek





### Hourly Maximum O<sub>3</sub> (in ppb) for 2023 at Fox Creek





## 6.8 Particulate Matter (PM<sub>2.5</sub>) - Fox Creek 2023 Summary

### Particulate Matter (PM<sub>2.5</sub>) Frequency Distribution at Fox Creek

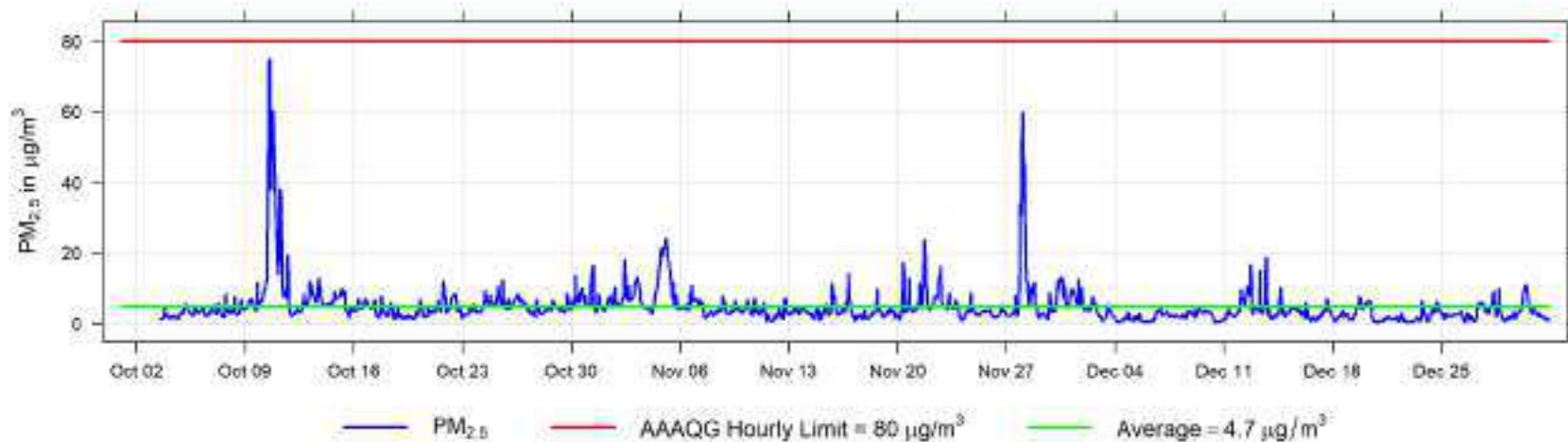
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m <sup>3</sup> )	24-hr (µg/m <sup>3</sup> )	MAXIMUM VALUES			Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 5 (µg/m <sup>3</sup> )	5 to 15 (µg/m <sup>3</sup> )	15 to 30 (µg/m <sup>3</sup> )	30 to 50 (µg/m <sup>3</sup> )	50 to 80 (µg/m <sup>3</sup> )	> 80 (µg/m <sup>3</sup> )			Date	1-hr (µg/m <sup>3</sup> )	Date			24-hr 29 µg/m <sup>3</sup>	1-hr 80 µg/m <sup>3</sup>
January 2023	0															
February 2023	0															
March 2023	0															
April 2023	0															
May 2023	0															
June 2023	0															
July 2023	0															
August 2023	0															
September 2023	0															
October 2023	682	60.6%	35.9%	1.5%	1.2%	0.9%	0.0%	5.9	32.5	Oct 10	74.7	Oct 10 14:00	99.7%	91.7%	1	0
November 2023	718	68.0%	27.3%	3.6%	0.8%	0.3%	0.0%	5.5	15.1	Nov 28	59.7	Nov 28 01:00	100.0%	99.7%	0	0
December 2023	741	86.2%	13.5%	0.3%	0.0%	0.0%	0.0%	2.9	7.2	Dec 01	18.7	Dec 13 18:00	99.9%	99.6%	0	0
<b>Annual</b>	<b>2141</b>	<b>71.6%</b>	<b>25.6%</b>	<b>1.8%</b>	<b>0.7%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>4.7</b>	<b>32.5</b>	<b>Oct 10</b>	<b>74.7</b>	<b>Oct 10 14:00</b>			<b>1</b>	<b>0</b>

AAAQO Objectives: 24-Hr: 29 µg/m<sup>3</sup>, AAAQG Guideline: 1-Hr: 80 µg/m<sup>3</sup>

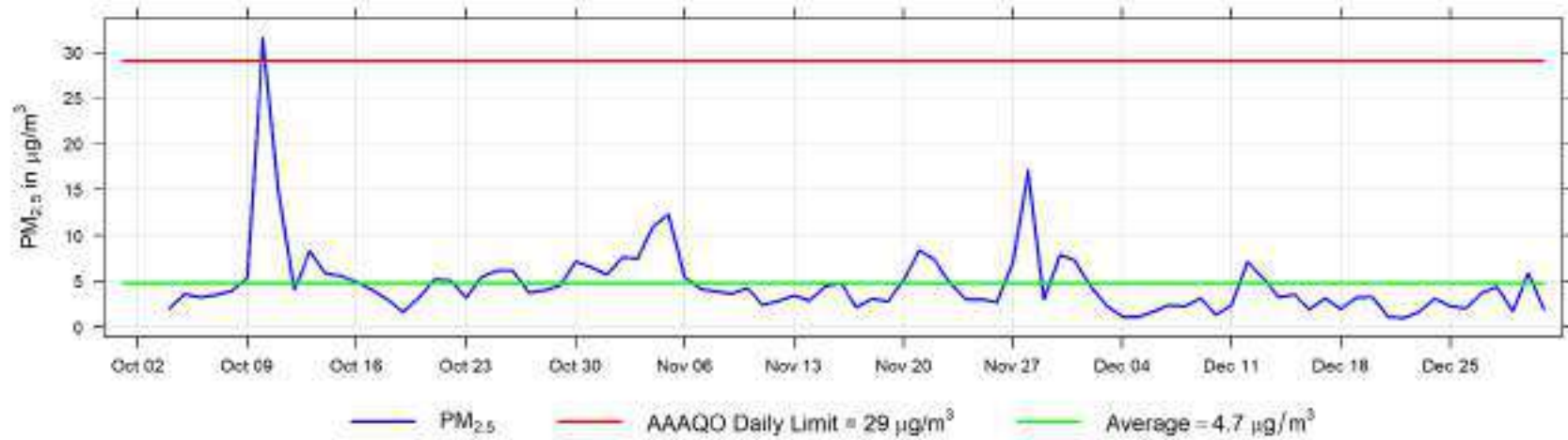
Note: correction of T640 data for Oct 03, 2023 to Dec 01, 2023 (when firmware update performed) resulted in no changes to incidents

Note average shown for reference only, not a valid annual average

2023 Hourly Concentration Readings of PM<sub>2.5</sub> in µg/m<sup>3</sup> at Fox Creek

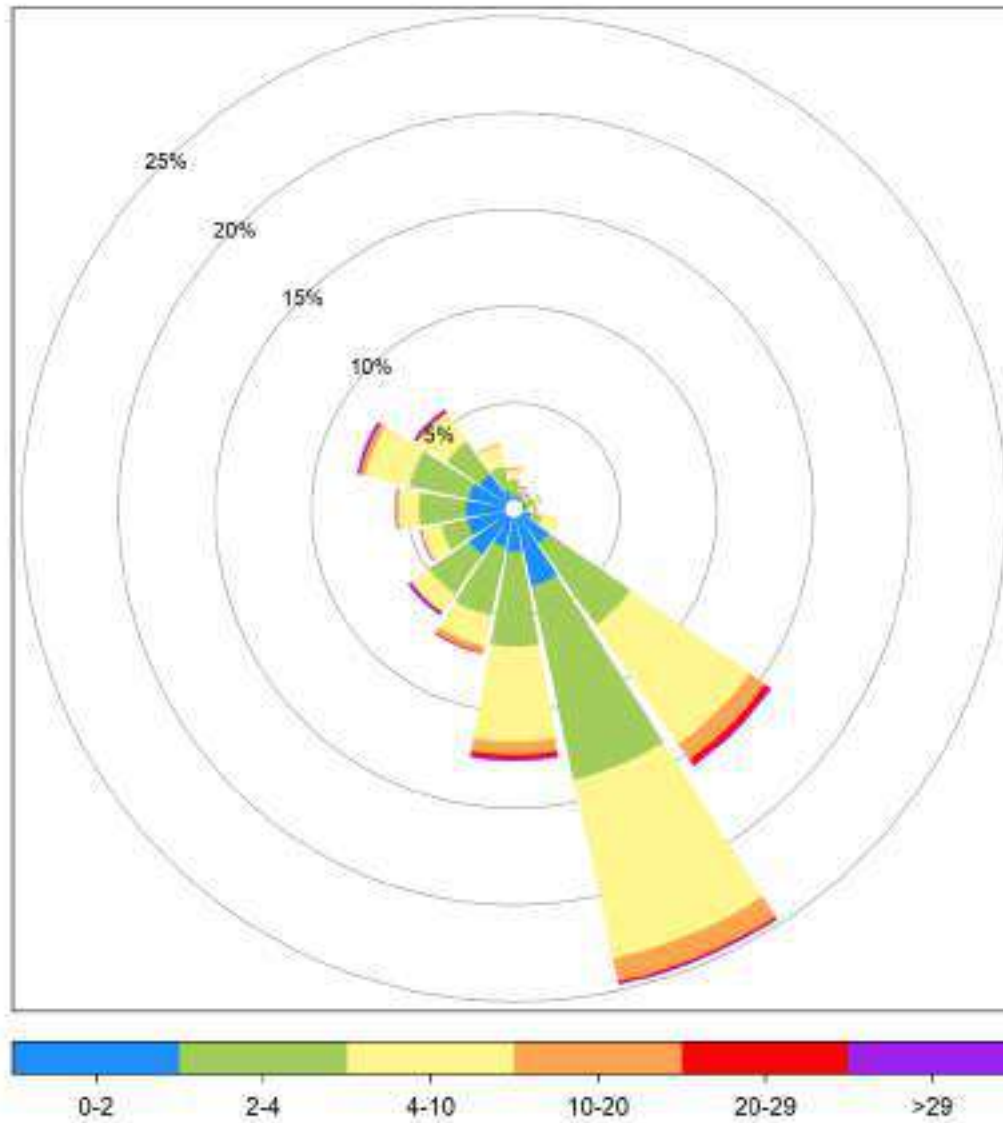


2023 Daily Concentration Readings of PM<sub>2.5</sub> in  $\mu\text{g}/\text{m}^3$  at Fox Creek



### Hourly Maximum PM<sub>2.5</sub> (in µg/m<sup>3</sup>) for 2023 at Fox Creek





2023 Annual Concentration Readings of PM<sub>2.5</sub> in µg/m<sup>3</sup> at Fox Creek

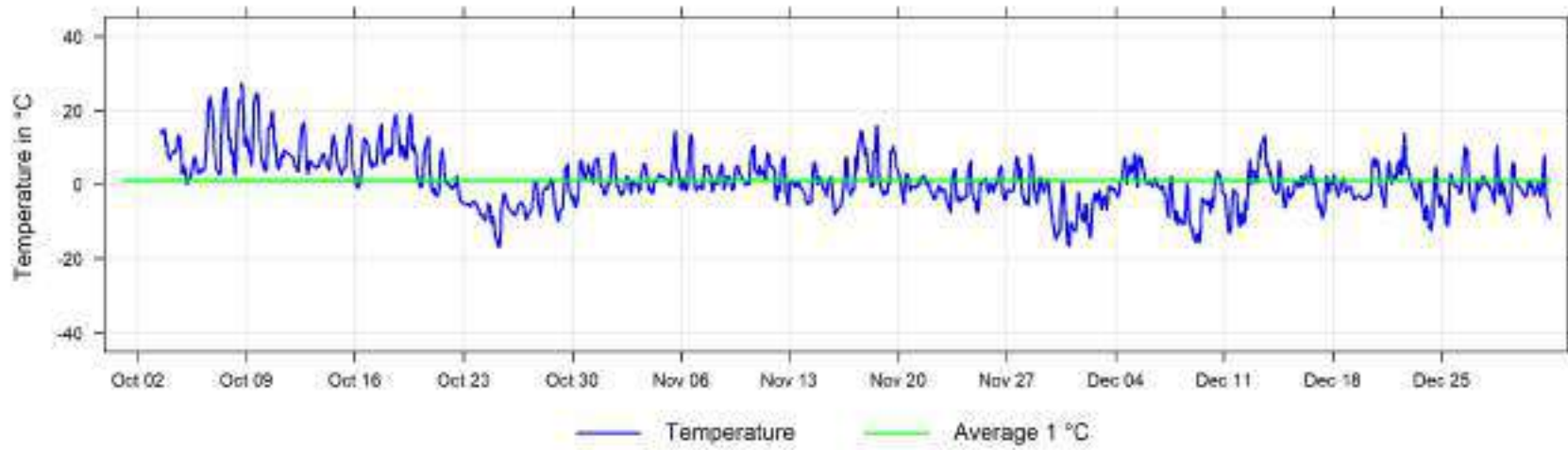
## 6.9 Temperature (ET) - Fox Creek 2023 Summary

Temperature (ET) Frequency Distribution at Fox Creek

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)		
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date
January 2023												
February 2023												
March 2023												
April 2023												
May 2023												
June 2023												
July 2023												
August 2023												
September 2023												
October 2023	683	4.4	14.4	Oct 09	27.3	Oct 08 16:00	-8.9	Oct 25	-16.8	Oct 25 06:00	99.7%	91.8%
November 2023	720	0.5	7.6	Nov 17	15.8	Nov 18 15:00	-10.2	Nov 30	-16.5	Dec 01 00:00	100.0%	100.0%
December 2023	744	-1.8	6.8	Dec 13	13.7	Dec 22 15:00	-9.2	Dec 09	-15.5	Dec 09 04:00	100.0%	100.0%
		<b>AVERAGE</b>		<b>MAXIMUM VALUES</b>			<b>MINIMUM VALUES</b>					
	2147	1.0	14.4	Oct 09	27.3	Oct 08 16:00	-10.2	Nov 30	-16.8	Oct 25 06:00		

Note average shown for reference only, not a valid annual average

2023 Hourly Temperature Readings (in °C) at Fox Creek



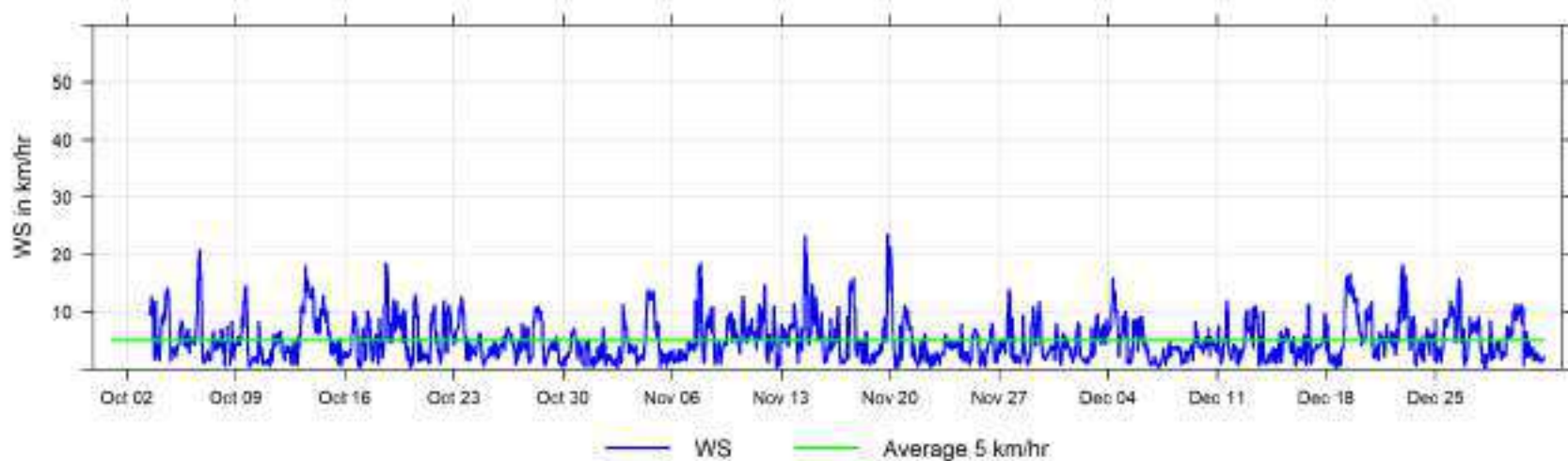
## 6.10 Wind Speed and Wind Direction (WS and WD) - Fox Creek 2023 Summary

Wind Speed Frequency Distribution at Fox Creek

Month	Valid Hours	Calm	% of Readings in Concentration Range					Monthly Average (km/hr)	24-hr (km/hr)	MAXIMUM VALUES		Operational time (%)	Valid time (%)	
			0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)			Date	1-hr Date			
January 2023														
February 2023														
March 2023														
April 2023														
May 2023														
June 2023														
July 2023														
August 2023														
September 2023														
October 2023	683	1.5%	56.8%	34.0%	7.5%	0.3%	0.0%	5.2	12.0	Oct 13	20.8	Oct 06 16:00	99.7%	91.8%
November 2023	720	1.4%	61.1%	30.1%	6.5%	0.8%	0.0%	4.9	8.9	Nov 14	23.5	Nov 19 20:00	100.0%	100.0%
December 2023	744	0.7%	57.5%	36.0%	5.8%	0.0%	0.0%	5.0	12.1	Dec 19	18.1	Dec 22 22:00	100.0%	100.0%
<b>Annual</b>	<b>2147</b>	<b>1.2%</b>	<b>58.5%</b>	<b>33.4%</b>	<b>6.6%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>5.0</b>	<b>12.1</b>	<b>Dec 19</b>	<b>23.5</b>	<b>Nov 19 20:00</b>		

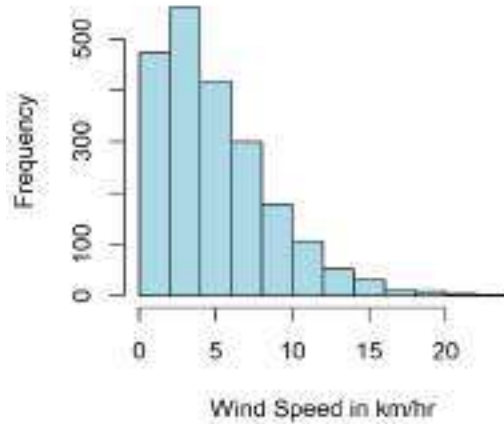
Note average shown for reference only, not a valid annual average

2023 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

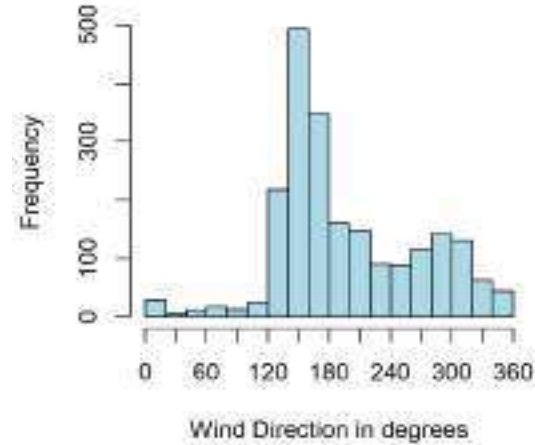




**2023 Wind Speed Histogram**

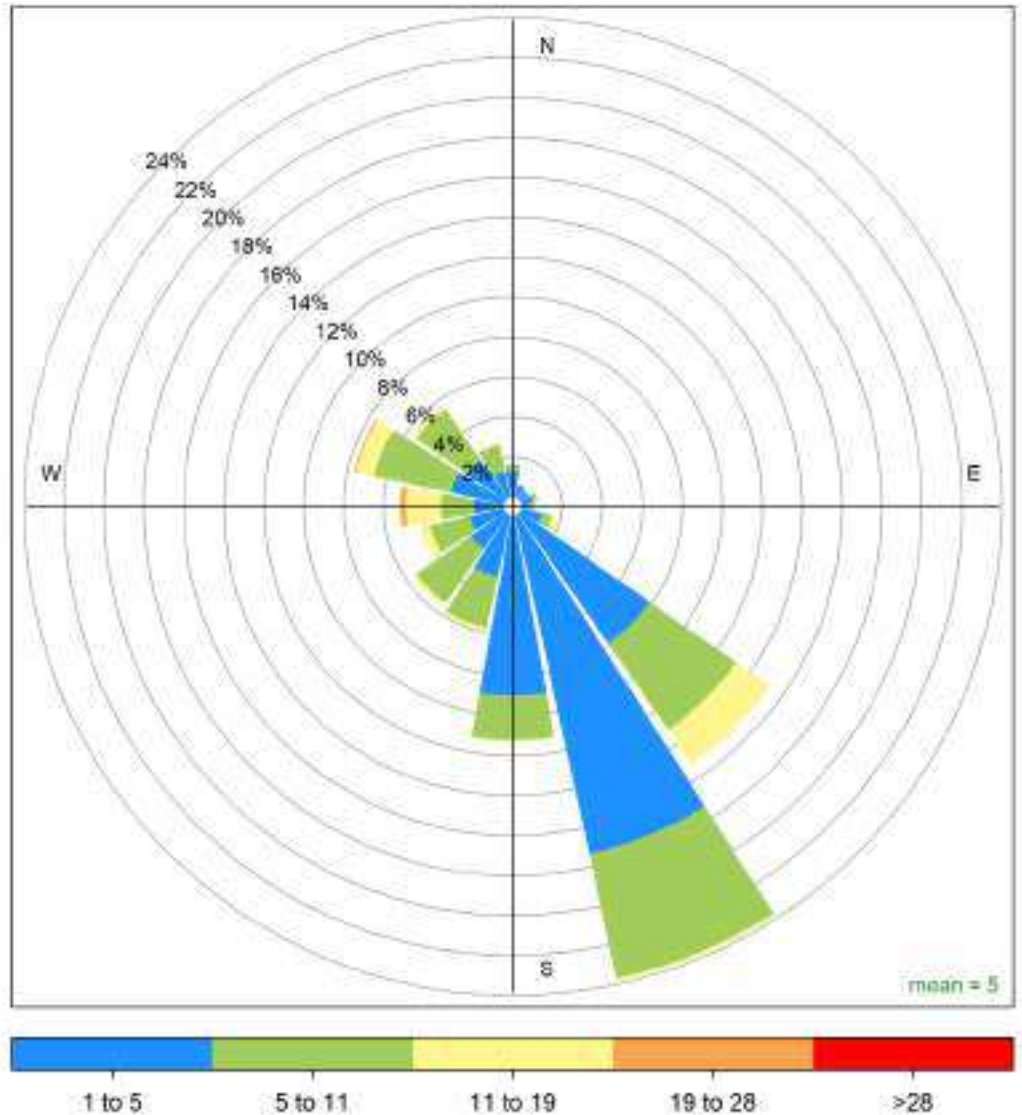


**2023 Wind Direction Histogram**



**Wind Speed and Wind Direction Frequency Distribution at Fox Creek**

Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	37	0.0%	1.4%	0.4%	0.0%	0.0%	0.0%	1.7%
NNE	15	0.0%	0.6%	0.1%	0.0%	0.0%	0.0%	0.7%
NE	11	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%
ENE	20	0.0%	0.7%	0.2%	0.0%	0.0%	0.0%	0.9%
E	14	0.0%	0.4%	0.2%	0.0%	0.0%	0.0%	0.7%
ESE	40	0.0%	1.1%	0.5%	0.3%	0.0%	0.0%	1.9%
SE	339	0.1%	8.3%	5.3%	2.1%	0.0%	0.0%	15.8%
SSE	534	0.0%	18.3%	6.4%	0.1%	0.0%	0.0%	24.9%
S	270	0.2%	10.0%	2.2%	0.1%	0.0%	0.0%	12.6%
SSW	155	0.3%	4.1%	2.6%	0.2%	0.0%	0.0%	7.2%
SW	134	0.1%	2.7%	3.3%	0.2%	0.0%	0.0%	6.2%
WSW	97	0.1%	1.9%	2.0%	0.5%	0.0%	0.0%	4.5%
W	122	0.2%	1.8%	1.7%	1.8%	0.3%	0.0%	5.7%
WNW	170	0.0%	3.0%	3.9%	0.9%	0.1%	0.0%	7.9%
NW	125	0.0%	2.4%	3.1%	0.3%	0.0%	0.0%	5.8%
NNW	64	0.0%	1.5%	1.4%	0.1%	0.0%	0.0%	3.0%
<b>Total</b>	<b>2147</b>	<b>1.2%</b>	<b>58.5%</b>	<b>33.4%</b>	<b>6.6%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>100.0%</b>



Fox Creek 2023 Wind Rose, wind speed in km/hr

**Calms (<1km/hr) = 6.5 %**