



Air Quality Monitoring Network for April 2008

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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May 26, 2008

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RE: Peace Airshed Zone Association (PASZA) – April 2008 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **April 2008**.

Continuous Monitoring: Six (6) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights, Beaverlodge, Spirit River (portable) and Valleyview.

Included in this report is a summary of the monthly continuous monitoring, detailed hourly average reports and multipoint calibration reports of all instruments. Operational summaries can be found on the "Monthly Summary" and "Continuous Monitoring" pages of the report.

The measured ambient air quality was within the Provincial and Federal objectives for the Henry Pirker, Evergreen Park, Smoky Heights, Beaverlodge, Spirit River and Valleyview stations.

During the month of April the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ THC spans dropped on from April 17th to 22nd – cylinder pressure increased on 23rd.
- ◆ CO spans greater than 10% on April 7th, 8th & 9th and less than 10% on April 20th, 21st and 22nd – all due to pressure issues from span cylinder.
- ◆ A power bump on April 28th resulted in a total of eleven (11) hours of invalid data followed by five (5) hours of maintenance for the TEOM.
- ◆ A power outage on April 30th resulted in seven (7) hours of invalid data for all parameters (eight (8) hours for TEOM).
- ◆ The AQI for the month resulted in 611 hours of Good readings and 47 Fair readings.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.
- ◆ A power bump on April 11th resulted in one (1) hour of invalid data for the TEOM.

Smoky Heights Station:

- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%, except for the TEOM which was only operational 83% (**Alberta Environment Reference # 200655**).

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 548 hours of Good readings and 131 Fair readings.

Portable – Spirit River Station:

- ◆ All analyzers / sensors at the Spirit River station had an operational uptime greater than 90%.
- ◆ TRS analyzer spans started to increase from March 29th to April 1st – the pump was rebuilt on April 2nd.
- ◆ Total of twenty-five (25) hours were flagged invalid for for the wind sensors due to fog or snow.

Valleyview Station:

- ◆ All analyzers / sensors at the Valleyview station had an operational uptime of 100%.
- ◆ Both SO₂ and H₂S analyzer spans started to drop from April 8th April 17th – after calibration on 17th all spans were good.

Passive Monitoring - 54 Stations throughout the PASZA zone:

There were seven duplicate sites sampled in the month of April: Sylvester, Beaverlodge, Clouston Creek, Peavine, Gift Lake, Hines Creek and Grande Prairie HP. The passive sample analyses were performed by MAXXAM Analytics Inc.

A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from 0.0 ppb to 1.1 ppb, with a mean of 0.1 ppb.
- Monthly average concentrations for NO₂ passives ranged from 1.1 ppb to 5.0 ppb, with a mean of 2.1 ppb.
- Monthly average concentrations for O₃ passives ranged from 44.1 ppb to 60.8 ppb, with a mean of 52.8 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 (Kelly Baragar or Sharon Whiteley).

On Behalf of the,
Peace Airshed Zone Association



Michael Bisaga
PASZA Program Manager



Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Apr-2008		Peace Airshed Zone Association					Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.2	0	0	13.7	Apr-27 12:00	4.8	N	1.6	Apr-27	99.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.3	0	0	59.3	Apr-27 11:00	4.6	W	4.5	Apr-27	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.4	0	0	6.9	Apr-02 04:00	27.7	WSW	1.4	Apr-02	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.2	0	0	1.9	Apr-23 07:00	6.3	ESE	0.5	Apr-23	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.1	0	0	2.6	Apr-18 21:00	20.2	NNE	0.4	Apr-01	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.41	0	0	1.51	Apr-16 21:00	11.4	W	0.67	Apr-26	100.0%
NO (ppb)			Henry Pirker	1.9	-	-	89.1	Apr-08 07:00	4.2	SE	9.4	Apr-07	99.0%
NO ₂ (ppb)	212	106	Henry Pirker	6.8	0	0	41.4	Apr-26 23:00	3.8	E	13.4	Apr-27	99.0%
NO _x (ppb)			Henry Pirker	8.9	-	-	126.3	Apr-08 07:00	4.2	SE	22.8	Apr-07	99.0%
NO (ppb)			Beaverlodge	0.1	-	-	3.1	Apr-08 09:00	6.6	SW	0.4	Apr-08	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	1.9	0	0	8.9	Apr-12 07:00	2.4	SSE	3.8	Apr-12	100.0%
NO _x (ppb)			Beaverlodge	1.9	-	-	10.0	Apr-08 09:00	6.6	SW	4.0	Apr-12	100.0%
NO (ppb)			Portable-Spirit River	0.2	-	-	8.5	Apr-07 14:00	8.9	WSW	0.7	Apr-07	100.0%
NO ₂ (ppb)	212	106	Portable-Spirit River	1.4	0	0	6.7	Apr-29 06:00	3.7	SW	2.6	Apr-23	100.0%
NO _x (ppb)			Portable-Spirit River	1.5	-	-	13.0	Apr-07 14:00	8.9	WSW	2.8	Apr-07	100.0%
O ₃ (ppb)	82		Henry Pirker	36.4	0	-	56.6	Apr-29 16:00	6.4	E	47.6	Apr-17	99.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					53.8	Apr-26	
O ₃ (ppb)	82		Beaverlodge	42.9	0	-	61.9	Apr-29 15:00	8.1	ENE	53.8	Apr-26	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					59.3	Apr-26	
O ₃ (ppb)	82		Portable-Spirit River	39.9	0	-	57.0	Apr-13 14:00	30.2	WSW	47.9	Apr-14	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					55.0	Apr-13	
CO (ppm)	13		Henry Pirker	0.22	0	-	1.3	Apr-08 07:00	4.2	SE	0.3	Apr-26	99.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.7	Apr-27	
THC (ppm)			Henry Pirker	1.99	-	-	2.7	Apr-26 23:00	3.8	E	2.2	Apr-11	99.0%
TRS (ppb)			Henry Pirker	0.3	-	-	1.0	Apr-15 04:00	13.2	W	0.5	Apr-02	99.0%
TRS (ppb)			Evergreen Park	0.6	-	-	3.6	Apr-27 11:00	4.6	W	1.1	Apr-27	100.0%
TRS (ppb)			Smoky Heights	0.4	-	-	0.8	Apr-15 23:00	24.0	WSW	0.6	Apr-30	100.0%
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.0	Apr-30 07:00	9.0	NE	0.6	Apr-04	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	0.5	Apr-27 23:00	3.9	SW	0.3	Apr-25	100.0%
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	5.5	0	0	29.4	Apr-26 23:00	3.8	E	9.1	Apr-27	96.5%
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	5.7	0	0	47.1	Apr-17 09:00	37.2	W	10.0	Apr-17	99.9%
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	5.4	1	0	23.5	Apr-02 18:00	11.1	W	5.7	Apr-27	83.6%
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	3.6	0	0	8.6	Apr-17 18:00	16.0	NE	4.6	Apr-06	99.6%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on April 9th (SO₂, O₃ & NO_x), April 10th (TRS & CO) and April 11th (THC & TEOM). A power failure on April 30th resulted in seven (7) hours of invalid data for all parameters.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
CO	TEI	48C	CO spans greater than 10% on April 7 th , 8 th & 9 th and less than 10% on April 20 th , 21 st and 22 nd – all due to pressure issues from span cylinder.
THC	TEI	51-CLT	THC spans dropped on from April 17 th to 22 nd – cylinder pressure increased on 23 rd .
TRS	TEI	43C	Span dropped March 2 nd – intermittent issue (low humidity affecting SOX scrubber).
PM _{2.5}	R&P	1400AB	Total of nineteen (19) hours of invalid data due to power failures and five (5) hours of associated maintenance. One (2) hour were flagged due to excessive baseline drift.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS/WD	Met One	010C/020C	Cups froze on March 3 rd – total of fifty-six (56) hours of invalid data.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on April 16th (SO₂, TRS & TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	A power bump on April 11 th resulted in one (1) hour of invalid data for the TEOM.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on April 18th (SO₂, TRS).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	TEOM was only operational 83% (Alberta Environment Reference # 200655). Filter was not seated properly.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on April 21st (SO₂ and NO_x) and April 22nd (O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Three (3) hours were removed due to excessive baseline drift.
AT	n/a	n/a	No operational issues observed.
RH	n/a	n/a	No operational issues observed.
WS	Blue Sky	857	No operational issues observed.
WD	Blue Sky	857	No operational issues observed.

PASZA – Spirit River (Portable) Station

General Station Issues

Routine monthly calibrations were performed on April 2nd (TRS) and April 3rd (SO₂, NO_x and O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NOx/NO/NO ₂	TEI	42i	No operational issues observed.
TRS	TEI	43C	TRS analyzer spans started to increase from March 29 th to April 1 st – the pump was rebuilt on April 2 nd .
O ₃	TEI	49C	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Met One		Total of twenty-five (25) hours were flagged invalid for for the wind sensors due to fog or snow.
WD	Met One		Total of twenty-five (25) hours were flagged invalid for for the wind sensors due to fog or snow.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on April 17th (SO₂ and H₂S).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	SO ₂ analyzer spans started to drop from April 8 th April 17 th – after calibration on 17 th all spans were good.
H ₂ S	TEI	43A	H ₂ S analyzer spans started to drop from April 8 th April 17 th – after calibration on 17 th all spans were good.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Gill	Met Pak 3	No operational issues observed.
WD	Gill	Met Pak 3	No operational issues observed.

PASZA
Henry Pirker Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: April 1, 2008 to May 1, 2008

Alberta's Air Quality Index

Good	1 to 25
Fair	26 to 50
Poor	51 to 100
Very Poor	> 100

Summary

Number of 1-hr Good Readings:	611
Number of 1-hr Fair Readings:	47
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00
1-Apr-08	18	19	19	18	N	13	12	13	16	18	20	22	23	24	24	23	22	22	21	15	18	19	17	18
2-Apr-08	18	18	17	N	15	14	11	13	16	18	19	20	20	21	20	20	19	19	18	18	18	18	18	18
3-Apr-08	18	19	N	17	18	18	14	12	12	18	19	20	21	21	21	21	20	20	18	17	18	18	18	17
4-Apr-08	16	N	16	17	16	13	6	7	15	18	20	21	22	23	22	23	23	22	22	18	16	17	17	14
5-Apr-08	N	14	14	14	13	11	11	12	14	16	17	17	19	21	21	21	20	19	19	16	15	14	13	N
6-Apr-08	15	16	16	15	15	15	14	15	15	17	17	18	17	18	18	19	20	20	19	17	14	15	N	12
7-Apr-08	9	10	5	7	5	7	6	8	9	5	10	14	N	21	20	20	21	20	19	15	10	N	13	12
8-Apr-08	10	10	10	9	11	6	8	9	9	14	16	19	21	21	21	21	21	21	20	16	N	20	18	16
9-Apr-08	16	15	13	9	11	10	10	16	19	N	N	N	N	N	1	1	1	25	24	20	14	12	17	17
10-Apr-08	16	15	12	14	11	N	7	8	15	19	22	24	24	24	24	24	23	24	23	21	20	20	18	19
11-Apr-08	19	19	16	17	16	N	14	7	14	20	22	23	23	23	N	N	23	23	23	17	10	7	14	9
12-Apr-08	8	7	10	5	5	N	6	6	5	8	11	15	16	16	17	17	17	16	16	15	14	15	14	14
13-Apr-08	15	14	14	13	N	10	16	24	25	28	26	25	25	26	27	27	28	29	30	29	25	20	21	22
14-Apr-08	20	20	19	N	18	13	11	15	20	23	24	25	26	27	27	26	26	26	25	24	24	24	23	24
15-Apr-08	24	23	N	22	20	18	17	18	20	22	22	23	23	23	23	23	23	23	22	20	20	20	20	21
16-Apr-08	22	N	20	20	12	11	15	20	22	23	23	23	23	23	24	24	23	24	24	23	23	22	22	23
17-Apr-08	N	24	27	27	26	23	24	25	25	26	27	25	25	25	25	26	26	25	22	19	18	18	17	N
18-Apr-08	18	18	18	18	18	18	16	14	14	14	14	14	14	14	15	14	14	14	14	13	12	12	12	11
19-Apr-08	11	11	11	11	11	10	10	10	10	11	11	12	12	13	14	14	15	15	15	14	14	N	15	16
20-Apr-08	16	17	18	17	18	17	16	17	18	17	18	18	19	20	20	20	20	21	20	20	N	21	21	21
21-Apr-08	21	21	20	20	19	19	19	19	19	20	21	22	23	24	24	24	25	26	25	N	25	25	25	25
22-Apr-08	25	25	24	24	24	23	23	22	23	23	24	25	25	25	25	26	25	25	N	23	22	15	17	15
23-Apr-08	8	10	11	12	10	10	15	20	22	22	22	23	23	N	N	3	23	23	23	21	20	19	17	18
24-Apr-08	19	20	18	19	18	N	17	18	20	22	22	23	23	23	23	24	24	24	24	23	20	19	20	21
25-Apr-08	20	20	20	21	N	15	8	14	21	22	23	24	25	26	27	27	26	25	24	23	21	22	23	23
26-Apr-08	22	21	20	N	17	14	11	16	20	22	25	28	29	29	29	29	29	28	25	21	13	16	16	25
27-Apr-08	23	18	N	8	7	7	8	10	11	15	15	16	17	20	24	26	27	29	25	22	20	18	20	20
28-Apr-08	16	N	9	5	6	7	8	11	11	15	19	23	24	27	29	28	27	28	29	27	25	25	23	N
29-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	29	30	26	25	23	22	23	24	24
30-Apr-08	24	N	N	N	N	N	N	N	N	20	18	16	16	16	15	15	15	14	14	14	13	13	13	13

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

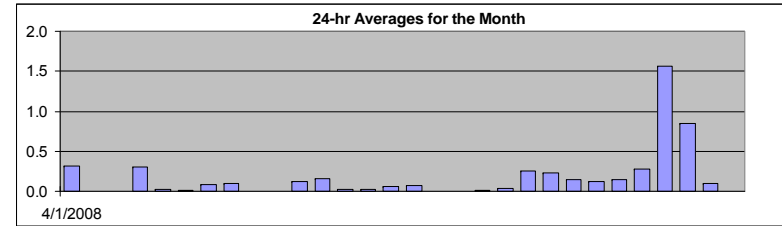
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	13.7	ppb	27-Apr	12:00	13:00
Maximum 24-hr Average:	1.6	ppb	27-Apr		



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.2	0.6	0.1	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0.3	6.8
2-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
3-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
4-Apr-08	0	A	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0.3	0.8
5-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1	
6-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.3	
7-Apr-08	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5	
8-Apr-08	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	1.0	
9-Apr-08	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
10-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
11-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	0.6	
12-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	0.9	
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	
14-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
15-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
16-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
17-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.0	
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.0	
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.1	
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.2	
21-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5	
22-Apr-08	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.6	
23-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
24-Apr-08	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2	
25-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
26-Apr-08	1	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	1.3	
27-Apr-08	1	0	A	0	0	0	0	1	1	0	2	6	14	5	2	1	1	1	0	0	0	0	0	0	0	1.6	13.7	
28-Apr-08	0	A	0	0	0	0	1	1	3	3	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	9.2	
29-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
30-Apr-08	0	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0	0.0
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.5	0.3	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1				
Hourly Max	1.1	0.4	0.4	0.6	0.4	0.5	0.6	1.4	3.2	3.3	9.2	6.4	13.7	6.8	1.8	0.8	0.8	1.0	0.6	0.2	0.3	0.9	0.7	1.1				

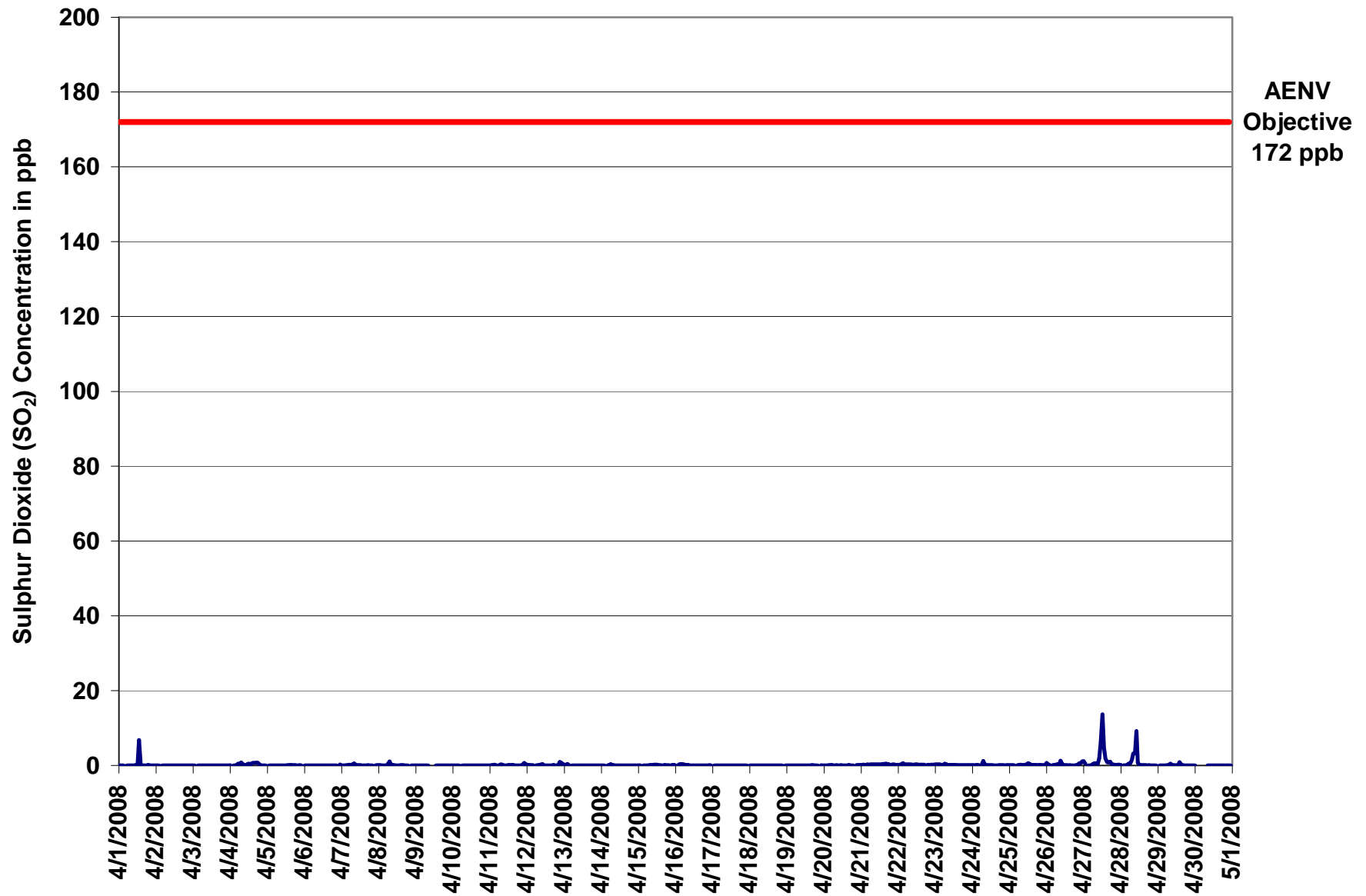


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

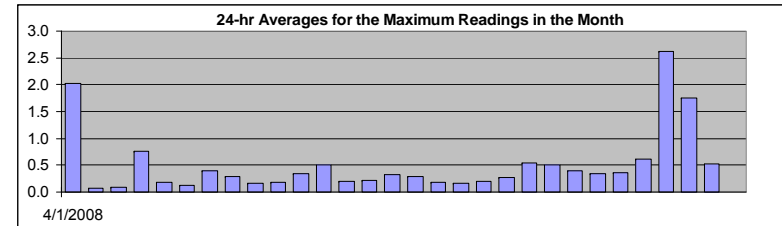
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	41.0	ppb	1-Apr	13:00 14:00
Maximum 24-hr Value:	2.6	ppb	27-Apr	



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.3	1.1	0.5	0.2	0.1	0.0	0.0	0.5 ppb	0.2 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-08	0	0	0	0	A	0	0	0	1	1	1	1	1	41	1	0	0	0	0	1	0	0	0	0	2.0	41.0	
2-Apr-08	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
3-Apr-08	0	0	A	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
4-Apr-08	1	A	0	0	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	0	0	0	0.8	3.1	
5-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	A	0.2	0.6		
6-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	2	0.1	1.5	
7-Apr-08	0	1	1	1	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.6	
8-Apr-08	0	0	0	0	0	0	1	2	1	1	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0.3	1.6	
9-Apr-08	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
10-Apr-08	0	0	0	0	1	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
11-Apr-08	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	1.1	
12-Apr-08	1	1	0	1	1	A	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	2	2	1	0.5	2.2	
13-Apr-08	1	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
14-Apr-08	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
15-Apr-08	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
16-Apr-08	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.8	
17-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0.2	0.7	
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0.2	0.6	
19-Apr-08	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	A	0	0	0.2	1.5	
20-Apr-08	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	A	A	0	0	0	0.3	0.7	
21-Apr-08	0	1	1	0	1	1	1	0	1	0	0	0	1	0	1	1	1	1	1	A	0	0	0	0	0.5	1.0	
22-Apr-08	0	0	1	1	1	1	1	1	0	0	0	1	1	0	1	0	0	0	A	0	0	0	0	1	0.5	1.3	
23-Apr-08	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	1.2	
24-Apr-08	0	0	0	1	1	A	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.1	
25-Apr-08	0	0	0	0	A	0	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	0	0	1	0.4	0.6	
26-Apr-08	1	1	1	A	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	1	1	1	1	2	0.6	1.9	
27-Apr-08	2	1	A	0	0	1	1	1	1	1	5	11	17	10	3	1	1	1	1	1	1	0	1	0	2.6	17.0	
28-Apr-08	0	A	0	1	1	1	2	3	5	7	12	6	1	1	1	0	0	0	0	0	0	0	0	0	1.7	12.2	
29-Apr-08	A	0	0	0	0	0	1	1	1	1	1	1	0	1	3	2	2	0	0	0	0	0	0	0	0.5	3.0	
30-Apr-08	0	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0	0.0
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.6	0.6	0.9	0.8	0.8	2.0	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.4			
Hourly Max	1.5	1.2	1.5	1.3	0.8	1.1	1.7	2.7	5.2	6.7	12.2	10.8	17.0	41.0	3.1	1.5	1.5	1.2	1.2	1.1	0.7	2.2	1.6	1.5			

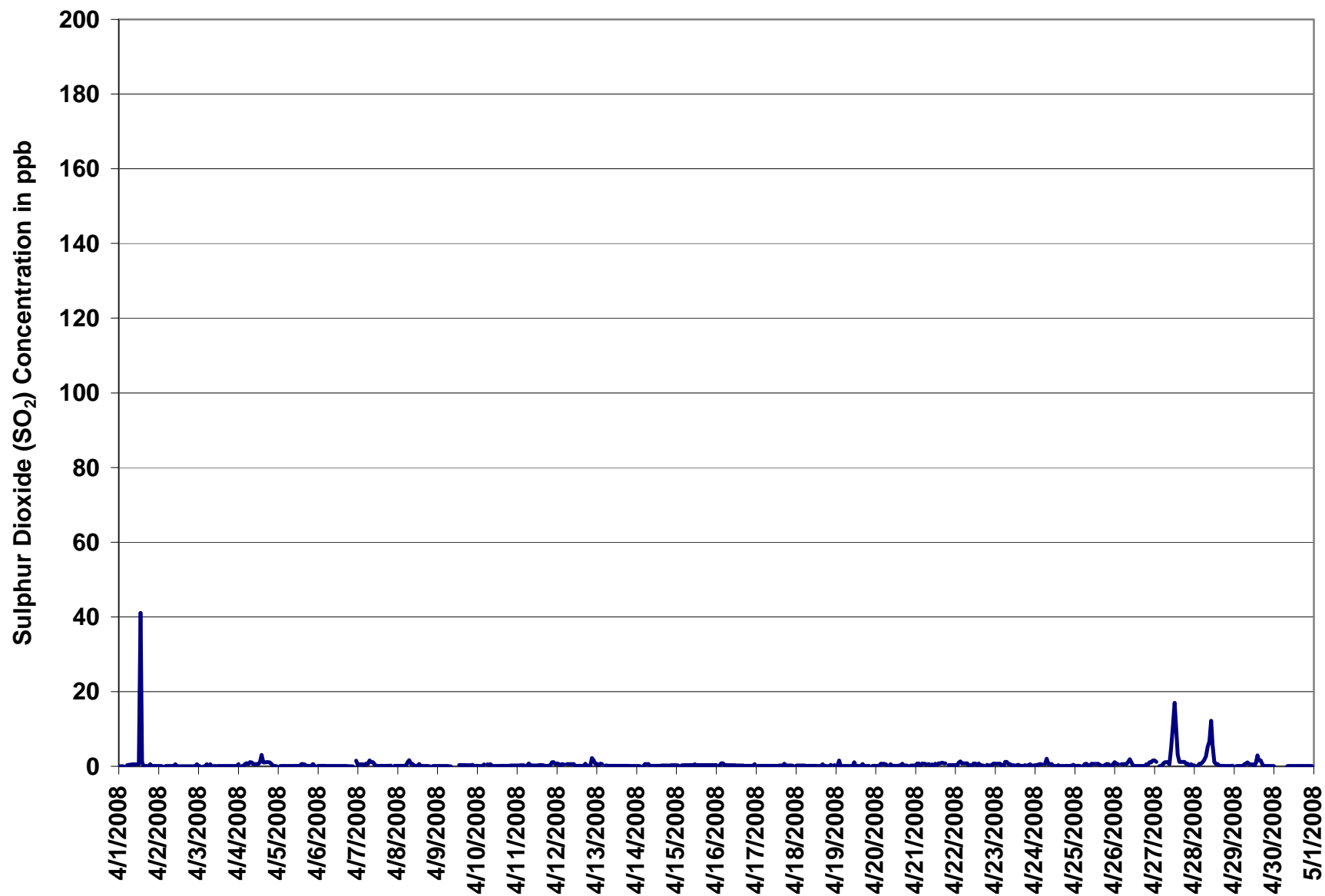
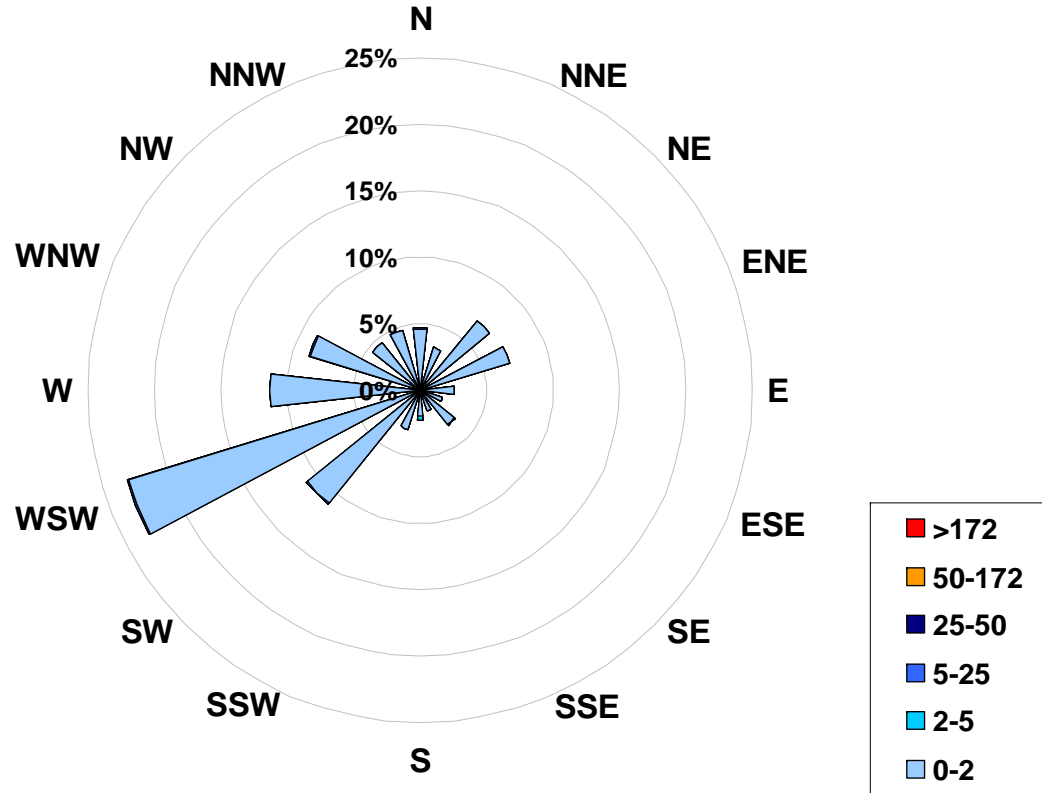


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	673
2	to	5	3
5	to	25	4
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			680

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

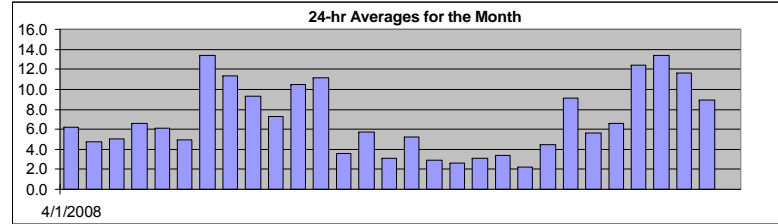
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb
 Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	41.4	ppb	26-Apr	23:00 0:00
Maximum 24-hr Average:	13.4	ppb	27-Apr	



AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.5	23.2	7.7	3.8	2.5	1.6	1.4	6.8 ppb	3.8 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	7	6	5	6	A	14	17	14	9	6	4	2	1	1	2	3	3	2	4	15	7	5	6	5	6.2	17.2	
2-Apr-08	4	4	4	A	6	10	15	10	5	4	3	3	3	2	2	3	4	4	5	5	4	4	3	3	4.8	15.2	
3-Apr-08	3	2	A	4	3	3	10	14	16	5	3	3	2	2	2	3	4	3	5	7	6	5	5	6	5.0	15.6	
4-Apr-08	4	A	5	4	5	12	23	29	8	4	2	2	2	1	2	1	3	5	6	7	8	7	7	7	6.6	28.8	
5-Apr-08	A	6	6	6	8	9	12	9	8	6	4	4	3	3	3	3	3	5	4	7	8	9	10	A	6.1	11.7	
6-Apr-08	6	5	5	5	4	4	5	5	5	3	3	3	4	3	2	3	3	4	4	6	10	9	A	12	5.0	12.3	
7-Apr-08	16	14	18	27	23	28	26	24	27	21	9	5	2	2	3	3	1	3	4	9	19	A	11	12	13.4	27.7	
8-Apr-08	14	14	12	15	13	24	35	37	23	13	9	4	4	4	3	3	3	3	6	11	A	2	2	4	11.3	37.1	
9-Apr-08	4	5	6	12	10	13	17	11	8	C	C	C	C	A	3	3	3	3	5	8	20	21	13	11	9.3	21.1	
10-Apr-08	12	11	11	8	15	A	25	24	12	5	3	2	2	3	2	2	3	3	2	3	5	4	6	4	7.3	25.4	
11-Apr-08	3	4	8	6	9	A	13	29	12	4	3	3	3	3	3	3	3	3	3	10	23	29	39	24	10.4	39.1	
12-Apr-08	19	18	11	23	21	A	27	23	22	15	10	3	2	3	2	2	4	5	5	8	8	9	6	8	11.1	27.2	
13-Apr-08	5	6	6	4	A	7	2	1	2	2	3	4	3	3	3	2	2	2	2	2	8	6	3	3	3.5	8.4	
14-Apr-08	4	5	6	A	7	17	25	17	9	4	4	2	2	3	2	2	2	2	2	3	4	4	3	2	5.7	25.0	
15-Apr-08	2	2	A	2	3	6	9	7	3	2	1	1	1	1	2	2	2	2	3	6	4	4	3	2	3.1	9.3	
16-Apr-08	2	A	6	5	19	21	16	7	5	3	2	2	3	3	3	3	3	2	2	3	3	4	4	2	5.2	21.1	
17-Apr-08	A	2	1	2	3	4	5	4	3	2	2	2	2	2	2	2	1	1	4	7	7	5	3	A	2.9	7.0	
18-Apr-08	3	2	2	2	2	2	3	3	2	2	2	2	3	3	3	3	3	3	3	4	4	3	A	3	2.6	4.1	
19-Apr-08	2	2	2	2	2	3	4	4	4	2	2	2	2	2	2	3	4	4	4	5	6	A	4	3	3.1	5.6	
20-Apr-08	3	3	3	4	3	4	9	7	3	5	3	2	2	2	3	3	3	2	2	2	A	5	4	2	3.4	8.9	
21-Apr-08	2	2	1	2	1	2	3	3	2	2	2	2	2	2	3	2	3	3	3	A	4	2	2	2	2.2	3.6	
22-Apr-08	2	2	2	1	2	3	4	4	2	1	2	2	2	1	3	2	2	2	A	6	7	18	16	17	4.5	18.4	
23-Apr-08	28	21	18	15	14	17	17	8	5	3	3	3	2	2	4	3	3	4	4	6	7	9	12	9	9.1	28.5	
24-Apr-08	8	6	8	7	9	A	13	10	5	3	3	3	2	3	4	2	2	2	3	5	9	9	8	6	5.6	13.0	
25-Apr-08	6	6	5	4	A	14	24	19	7	4	3	3	3	3	2	3	4	4	4	6	9	7	5	7	6.6	23.5	
26-Apr-08	7	7	7	A	13	17	23	16	9	7	3	2	2	2	2	2	2	2	6	12	24	37	41	41	12.4	41.4	
27-Apr-08	41	28	A	11	10	16	19	25	21	16	15	18	18	15	12	9	6	3	3	3	4	5	5	4	13.4	40.5	
28-Apr-08	4	A	13	22	23	29	34	39	25	18	11	3	2	2	2	3	4	4	4	6	5	5	6	4	11.6	38.5	
29-Apr-08	A	3	3	8	8	19	38	28	41	18	3	2	2	2	4	3	3	4	4	4	3	2	2	2	9.0	41.1	
30-Apr-08	2	P	P	P	P	P	P	P	4	4	5	4	3	2	3	3	4	6	5	4	4	3	3	2	N	5.7	
Hourly Avg	8.0	7.2	6.7	8.0	9.1	12.1	16.2	14.9	10.2	6.4	4.2	3.2	2.9	2.7	2.9	2.7	3.0	3.1	3.8	6.2	8.3	8.2	8.2	7.4			
Hourly Max	40.5	28.0	18.1	27.3	23.1	28.7	37.8	38.5	41.1	20.8	15.1	17.8	18.4	15.3	12.1	8.9	5.9	5.7	5.8	15.2	24.2	37.4	40.9	41.4			

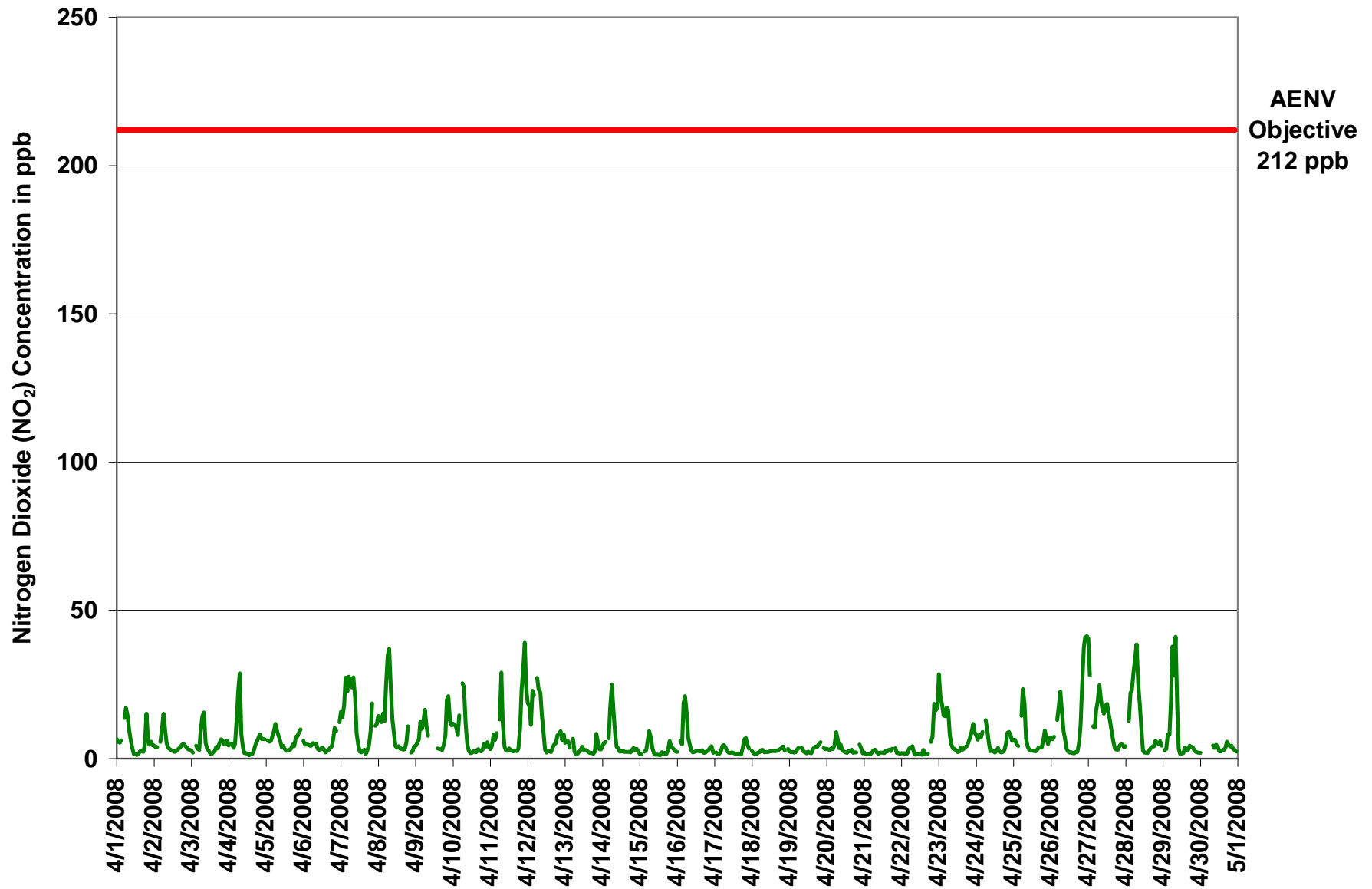


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

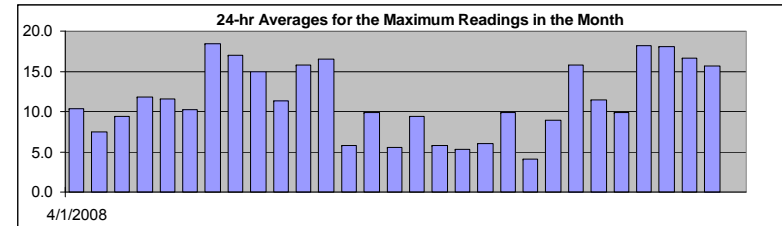
Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	65.0	ppb	20-Apr	6:00 7:00
Maximum 24-hr Value:	18.4	ppb	7-Apr	

AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.2	33.2	13.4	7.3	4.8	3.0	2.5	11.3 ppb	7.3 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	8	9	7	8	A	23	25	22	14	8	7	3	3	4	5	6	5	9	27	17	7	13	6	10.4	27.0	
2-Apr-08	6	5	5	A	10	17	21	16	8	8	5	5	5	4	5	6	7	7	7	7	5	5	4	7.4	21.1	
3-Apr-08	4	4	A	6	5	5	19	32	31	10	6	6	5	3	5	7	8	7	10	12	10	7	6	10	9.5	31.8
4-Apr-08	13	A	8	5	9	19	31	43	16	8	4	4	4	3	4	4	10	9	13	11	18	15	11	10	11.8	42.9
5-Apr-08	A	10	9	12	11	14	15	13	11	17	6	8	5	10	5	6	10	13	9	17	13	18	23	A	11.6	22.8
6-Apr-08	13	11	9	13	14	7	16	7	9	12	7	9	9	13	4	7	8	9	7	9	13	12	A	17	10.3	17.0
7-Apr-08	22	20	26	30	27	31	30	34	33	34	14	7	6	5	6	7	3	7	8	13	25	A	16	20	18.4	34.4
8-Apr-08	17	18	16	29	21	41	42	43	32	20	13	7	8	9	7	8	6	7	10	22	A	4	4	7	17.0	42.8
9-Apr-08	7	7	11	22	15	16	26	19	13	C	C	C	C	A	7	6	6	6	9	15	29	37	19	17	15.0	36.7
10-Apr-08	17	18	16	12	19	A	33	32	22	10	5	4	4	8	6	5	6	7	4	5	8	6	8	5	11.3	33.2
11-Apr-08	5	7	10	8	12	A	24	38	20	7	6	5	6	6	7	5	5	5	7	21	35	46	46	34	15.8	46.2
12-Apr-08	24	23	22	29	28	A	32	28	26	23	13	5	5	5	6	4	7	8	11	13	14	21	16	16	16.5	31.8
13-Apr-08	6	9	7	7	A	10	5	2	3	5	6	7	5	5	4	4	3	4	3	5	12	12	5	5	5.8	12.1
14-Apr-08	7	9	8	A	22	27	30	30	14	13	8	5	5	5	5	4	4	4	3	5	6	5	5	5	9.8	30.3
15-Apr-08	2	3	A	4	7	10	14	14	7	4	3	3	3	3	7	4	4	4	6	9	7	5	5	4	5.6	13.9
16-Apr-08	3	A	8	7	32	39	36	11	7	6	4	5	5	5	7	4	5	4	3	4	4	6	7	5	9.4	39.3
17-Apr-08	A	4	2	3	8	9	8	10	4	4	4	4	3	4	3	4	3	4	8	12	14	9	5	A	5.7	13.6
18-Apr-08	5	3	3	4	4	7	6	5	4	5	5	5	5	6	5	5	6	6	6	7	10	6	A	7	5.3	10.5
19-Apr-08	5	4	6	4	4	5	6	6	9	5	6	6	6	4	4	6	8	8	8	10	10	A	6	5	6.0	10.3
20-Apr-08	9	7	9	6	5	7	65	24	5	11	10	8	3	5	7	4	7	4	5	6	A	8	9	3	9.9	65.0
21-Apr-08	3	2	3	3	3	3	4	5	3	3	3	4	4	4	6	5	6	5	7	A	10	4	4	3	4.1	10.4
22-Apr-08	4	3	6	5	4	9	5	6	4	2	3	4	4	3	8	3	4	3	A	12	26	37	25	26	8.9	36.7
23-Apr-08	37	29	26	21	21	26	29	14	13	7	7	9	6	9	11	6	10	17	9	13	11	12	17	16	15.7	36.8
24-Apr-08	14	11	12	10	11	A	16	18	10	6	11	9	6	7	13	8	5	8	9	12	16	15	20	15	11.4	19.6
25-Apr-08	9	12	6	6	A	19	29	30	13	6	5	5	5	6	4	6	6	6	6	9	12	10	9	11	9.9	30.1
26-Apr-08	10	13	11	A	18	26	31	26	13	10	6	4	4	4	4	5	5	11	29	41	46	50	48	18.1	49.5	
27-Apr-08	52	39	A	14	15	24	26	28	25	19	20	22	27	25	15	12	8	5	5	6	6	8	10	7	18.1	51.7
28-Apr-08	6	A	19	33	33	36	44	45	33	24	14	7	4	4	4	6	6	6	6	17	9	8	11	9	16.7	44.9
29-Apr-08	A	4	5	14	14	41	54	45	57	46	7	3	4	4	12	7	11	9	6	6	4	4	3	3	15.7	56.8
30-Apr-08	3	P	P	P	P	P	P	P	6	5	8	7	4	3	4	5	6	8	7	7	7	5	5	3	N	8.4
Hourly Avg	11.5	10.8	10.3	12.1	14.2	18.8	24.9	22.3	15.5	11.6	7.3	6.1	5.5	6.0	6.3	5.5	6.1	6.6	7.3	11.8	14.1	13.5	12.8	11.3		
Hourly Max	51.7	38.6	26.4	33.4	33.4	41.2	65.0	44.9	56.8	46.1	20.3	22.1	27.2	24.5	15.1	12.1	10.6	17.4	13.5	29.4	40.8	46.5	49.5	47.8		

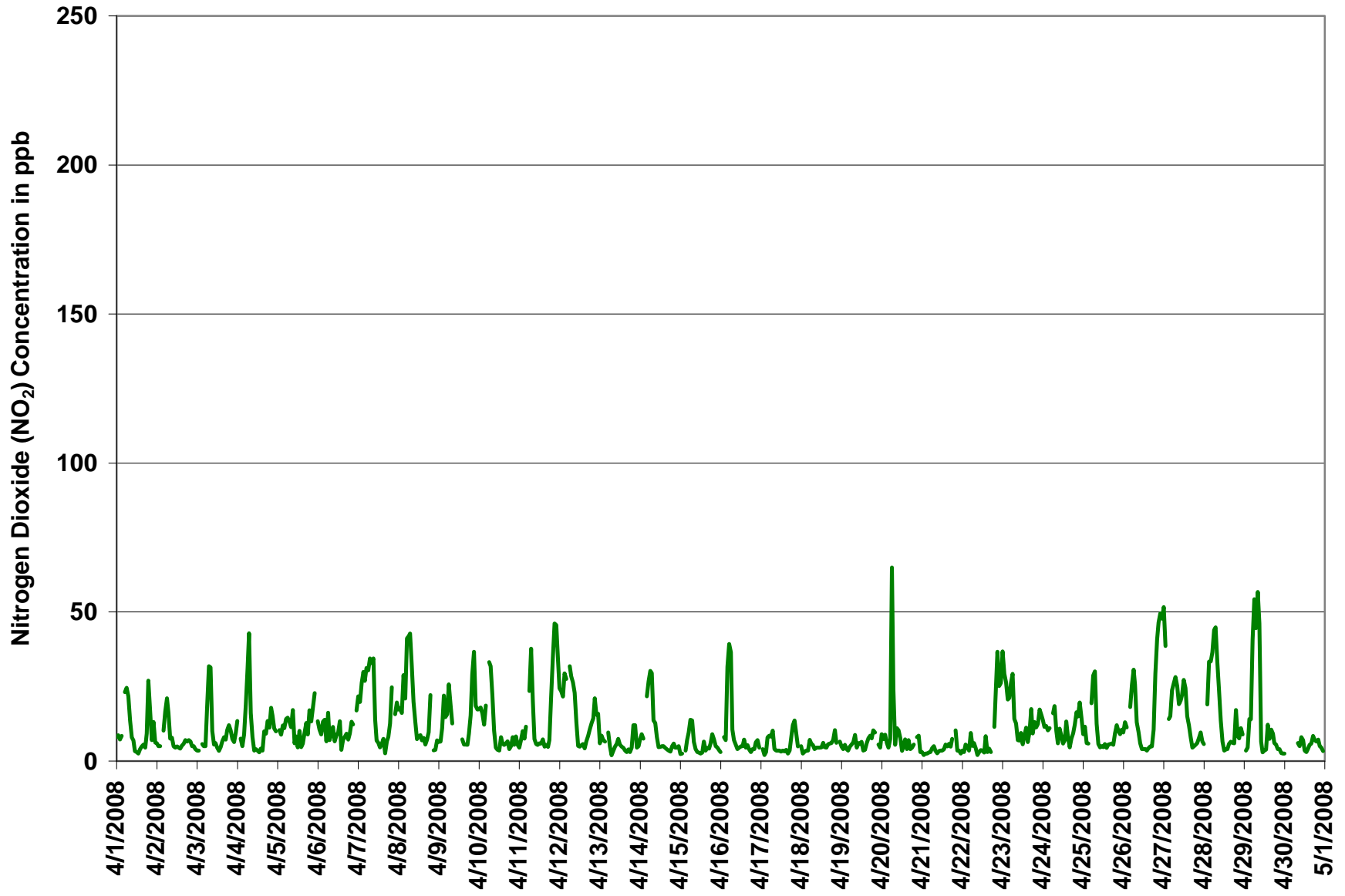
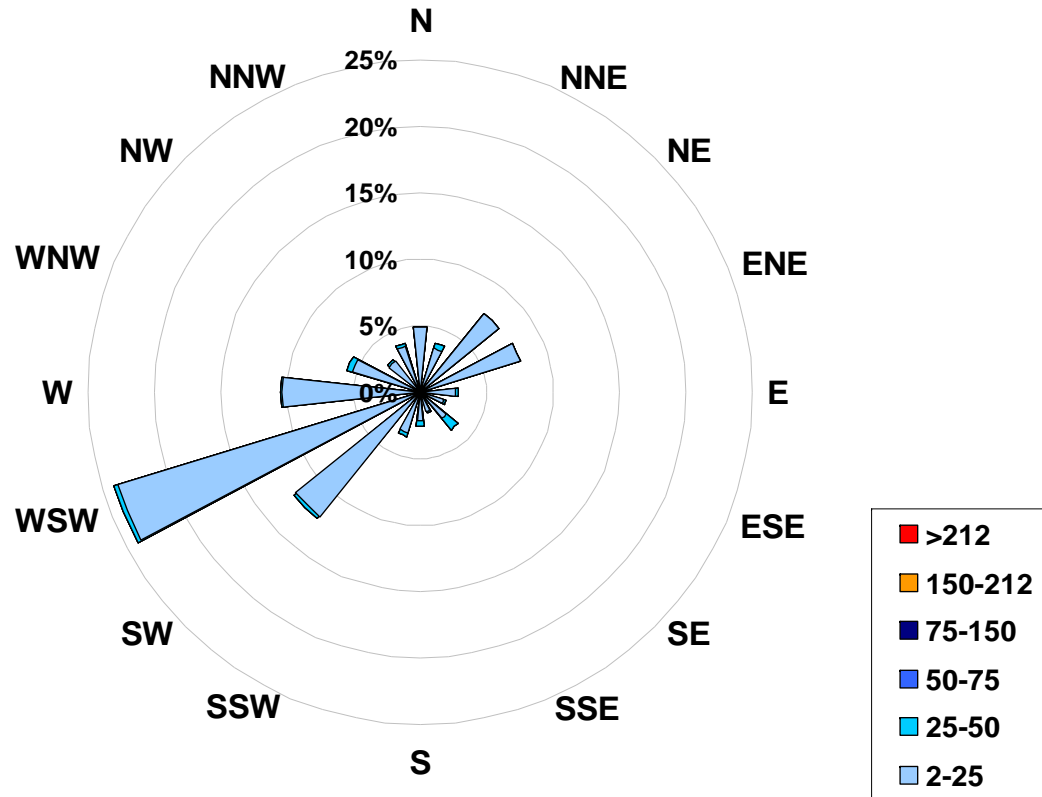


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		664
25	to 50		13
50	to 75		1
75	to 150		1
150	to 212		0
	> 212		0
Total Non-Zero Values			679

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

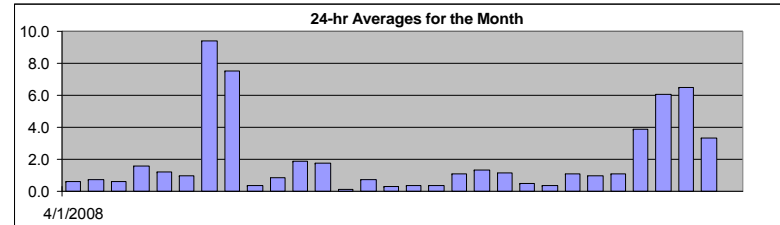
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Guideline Limit: 1-hr na ppb 24-hr na ppb

Maximum 1-hr Average:	89.1	ppb	8-Apr	7:00 8:00
Maximum 24-hr Average:	9.4	ppb	7-Apr	



AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.3	7.0	1.1	0.5	0.2	0.0	0.0	1.9 ppb	0.5 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	0	0	0	0	A	1	1	2	2	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.6	2.0
2-Apr-08	0	0	0	A	0	0	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.7	1.9	
3-Apr-08	0	0	A	0	0	0	1	2	3	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0.6	2.7	
4-Apr-08	0	A	0	0	0	0	3	17	3	2	1	1	1	0	0	0	1	1	1	1	2	1	1	0	1.5	17.2	
5-Apr-08	A	1	0	1	0	0	1	2	2	2	1	2	1	1	1	1	1	1	1	2	1	2	1	A	1.2	2.3	
6-Apr-08	1	1	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	A	0	1.0	2.0	
7-Apr-08	1	0	1	2	3	26	30	48	65	27	7	3	1	1	1	1	0	0	0	0	0	A	0	0	9.4	64.6	
8-Apr-08	0	0	0	1	0	5	45	89	14	6	4	2	1	1	1	0	0	1	1	0	A	0	0	0	7.5	89.1	
9-Apr-08	0	0	0	0	0	0	1	1	1	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.3	1.3	
10-Apr-08	0	0	0	0	0	A	3	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	7.6	
11-Apr-08	0	0	0	0	0	A	1	10	3	1	1	1	1	0	0	0	0	0	0	0	1	5	19	0	1.9	19.4	
12-Apr-08	0	0	0	0	0	A	8	6	8	7	5	1	1	1	0	0	0	1	0	0	0	0	0	0	1.8	8.2	
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
14-Apr-08	0	0	0	A	0	0	3	3	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.7	3.2	
15-Apr-08	0	0	A	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	0.7	
16-Apr-08	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0.4	1.2	
17-Apr-08	A	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	A	0	0.3	0.9	
18-Apr-08	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	1	1	1	2	2	2	A	1	1.1	1.9	
19-Apr-08	1	1	1	1	1	1	1	2	3	2	2	2	2	2	1	2	2	2	2	1	1	1	A	0	1.4	2.8	
20-Apr-08	0	1	1	0	0	0	6	4	1	3	2	2	1	1	1	1	1	0	0	0	A	0	0	0	1.2	5.8	
21-Apr-08	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	A	0	0	0	0	0.5	1.2	
22-Apr-08	0	0	0	0	0	0	0	2	1	0	1	1	1	0	1	0	0	0	A	0	0	0	0	0	0.4	2.4	
23-Apr-08	1	0	0	0	0	1	3	3	2	1	2	1	1	1	2	1	1	1	1	2	0	0	0	1	1.1	2.6	
24-Apr-08	1	1	0	0	0	A	2	3	3	1	2	1	1	1	2	1	0	0	1	1	1	1	1	1	1.0	3.5	
25-Apr-08	0	0	0	0	A	0	7	8	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1.1	8.1	
26-Apr-08	0	0	0	A	0	0	4	4	3	2	1	0	0	0	0	0	0	0	0	0	1	9	21	42	3.9	41.7	
27-Apr-08	28	18	A	1	0	6	25	26	11	3	5	4	5	3	3	1	0	0	0	0	0	0	0	0	6.0	28.1	
28-Apr-08	0	A	0	3	7	29	44	39	13	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	44.1	
29-Apr-08	A	0	0	0	0	1	19	13	33	9	1	0	0	0	1	1	0	0	0	0	0	0	0	0	3.3	32.9	
30-Apr-08	0	P	P	P	P	P	P	P	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	N	0.9	
Hourly Avg	1.3	0.9	0.2	0.4	0.6	3.0	7.3	10.3	6.1	3.0	1.6	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.8	1.6	1.7			
Hourly Max	28.1	17.9	0.9	2.6	6.9	29.0	44.7	89.1	64.6	26.9	6.6	4.4	5.0	3.0	2.8	2.0	2.1	1.8	1.2	2.0	1.8	9.5	20.7	41.7			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

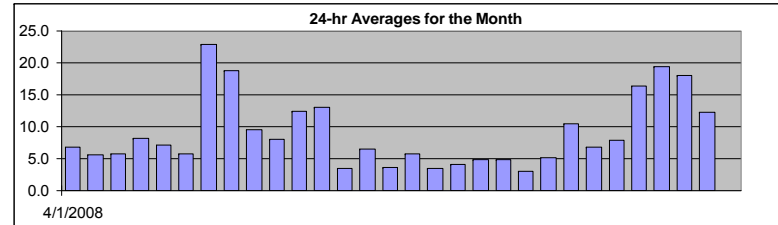
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2008 to May 1, 2008

Guideline Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb

Summary				
Maximum 1-hr Average:	126.3	ppb	8-Apr	7:00 8:00
Maximum 24-hr Average:	22.8	ppb	7-Apr	



AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	72.8	29.4	8.2	4.6	3.2	2.0	1.7	8.9 ppb	4.6 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	7	6	5	6	A	14	18	16	11	8	5	2	2	2	2	3	4	3	5	16	7	5	6	5	6.8	17.9	
2-Apr-08	5	4	4	A	6	10	16	12	7	5	5	4	4	3	4	4	5	5	6	5	5	4	3	3	5.6	16.3	
3-Apr-08	3	2	A	5	3	3	10	17	18	6	4	4	2	2	3	3	5	4	6	7	6	5	5	6	5.7	18.5	
4-Apr-08	5	A	5	4	5	13	26	46	11	6	3	3	2	1	2	2	3	5	7	8	10	7	7	7	8.1	46.1	
5-Apr-08	A	7	6	6	8	9	12	11	10	8	5	6	4	4	4	4	4	6	5	9	8	10	11	A	7.2	12.5	
6-Apr-08	7	5	6	6	5	5	6	5	7	4	4	4	5	5	3	4	4	5	5	7	11	10	A	13	5.8	12.6	
7-Apr-08	16	14	19	29	26	53	56	72	92	48	15	8	3	3	3	4	2	4	5	10	19	A	11	12	22.8	92.1	
8-Apr-08	15	14	13	16	13	29	80	126	37	20	13	6	5	6	4	4	4	4	6	11	A	2	2	4	18.8	126.3	
9-Apr-08	4	5	7	13	10	13	18	12	9	C	C	C	C	A	4	4	4	3	5	8	20	21	13	11	9.6	21.1	
10-Apr-08	12	11	11	8	14	A	29	32	15	7	3	2	2	3	2	2	3	3	3	3	5	4	5	4	8.0	31.7	
11-Apr-08	3	4	8	6	8	A	14	39	15	5	4	3	4	4	3	3	3	3	4	11	24	35	59	24	12.4	58.8	
12-Apr-08	19	18	12	23	22	A	35	30	31	22	15	4	3	3	3	3	4	5	6	8	8	9	6	8	13.0	35.4	
13-Apr-08	5	6	6	4	A	7	2	1	2	2	3	4	3	3	3	2	2	2	2	2	8	6	3	3	3.5	8.3	
14-Apr-08	4	5	6	A	7	17	28	20	11	6	5	3	3	3	3	3	3	3	3	3	4	3	3	3	6.4	27.6	
15-Apr-08	2	2	A	3	3	6	10	8	4	2	2	2	2	2	3	2	3	2	4	7	5	4	3	3	3.6	10.2	
16-Apr-08	3	A	6	5	19	22	17	8	5	4	3	3	3	3	3	3	4	2	2	3	3	4	4	2	5.8	21.6	
17-Apr-08	A	2	1	2	3	4	5	4	3	3	3	3	3	2	2	2	2	2	5	8	8	6	4	A	3.5	8.2	
18-Apr-08	3	2	2	2	3	3	4	4	4	4	4	4	4	5	5	4	4	5	5	6	6	5	A	5	4.1	6.3	
19-Apr-08	3	3	3	3	3	4	5	7	7	5	5	4	5	4	4	5	6	6	6	7	7	A	4	4	4.8	6.9	
20-Apr-08	4	4	4	4	4	5	15	11	5	8	5	4	4	4	4	4	4	3	3	2	A	5	4	2	4.9	15.2	
21-Apr-08	2	2	2	2	2	2	4	4	3	3	4	4	3	3	4	4	4	3	4	A	4	2	2	2	3.1	4.4	
22-Apr-08	2	2	2	2	2	4	5	6	3	2	3	3	3	2	5	2	2	2	A	6	8	19	17	18	5.2	18.9	
23-Apr-08	29	22	19	15	15	19	20	11	7	5	5	4	3	4	6	4	5	6	6	7	8	9	12	9	10.4	29.4	
24-Apr-08	9	7	8	7	9	A	15	13	8	4	5	4	3	4	5	3	3	3	4	6	10	10	9	7	6.7	14.8	
25-Apr-08	6	7	5	4	A	15	31	27	9	5	4	4	4	4	3	4	4	5	4	6	10	7	5	7	7.8	30.8	
26-Apr-08	7	6	7	A	13	18	26	21	12	9	4	3	2	3	2	2	3	3	6	12	25	47	62	83	16.3	83.1	
27-Apr-08	69	46	A	12	11	23	45	50	32	20	20	22	23	18	15	10	6	4	3	3	4	5	5	4	19.5	68.7	
28-Apr-08	4	A	13	25	30	58	78	78	38	26	14	3	2	2	2	3	4	4	4	6	6	5	6	4	18.1	78.0	
29-Apr-08	A	3	3	8	8	20	56	41	74	27	4	2	2	2	5	4	3	5	4	4	3	2	2	2	12.3	74.0	
30-Apr-08	2	P	P	P	P	P	P	P	5	4	6	5	3	3	3	3	4	6	5	4	5	3	3	2	N	6.5	
Hourly Avg	9.3	8.1	7.0	8.4	9.8	15.2	23.7	25.3	16.5	9.5	5.9	4.4	3.9	3.7	3.8	3.5	3.7	3.8	4.4	6.7	8.8	9.1	9.9	9.2			
Hourly Max	68.7	46.0	18.7	29.2	30.1	57.8	79.6	126.3	92.1	47.8	19.7	22.3	23.4	18.3	14.9	10.0	6.3	6.5	6.8	15.6	24.8	46.9	61.7	83.1			

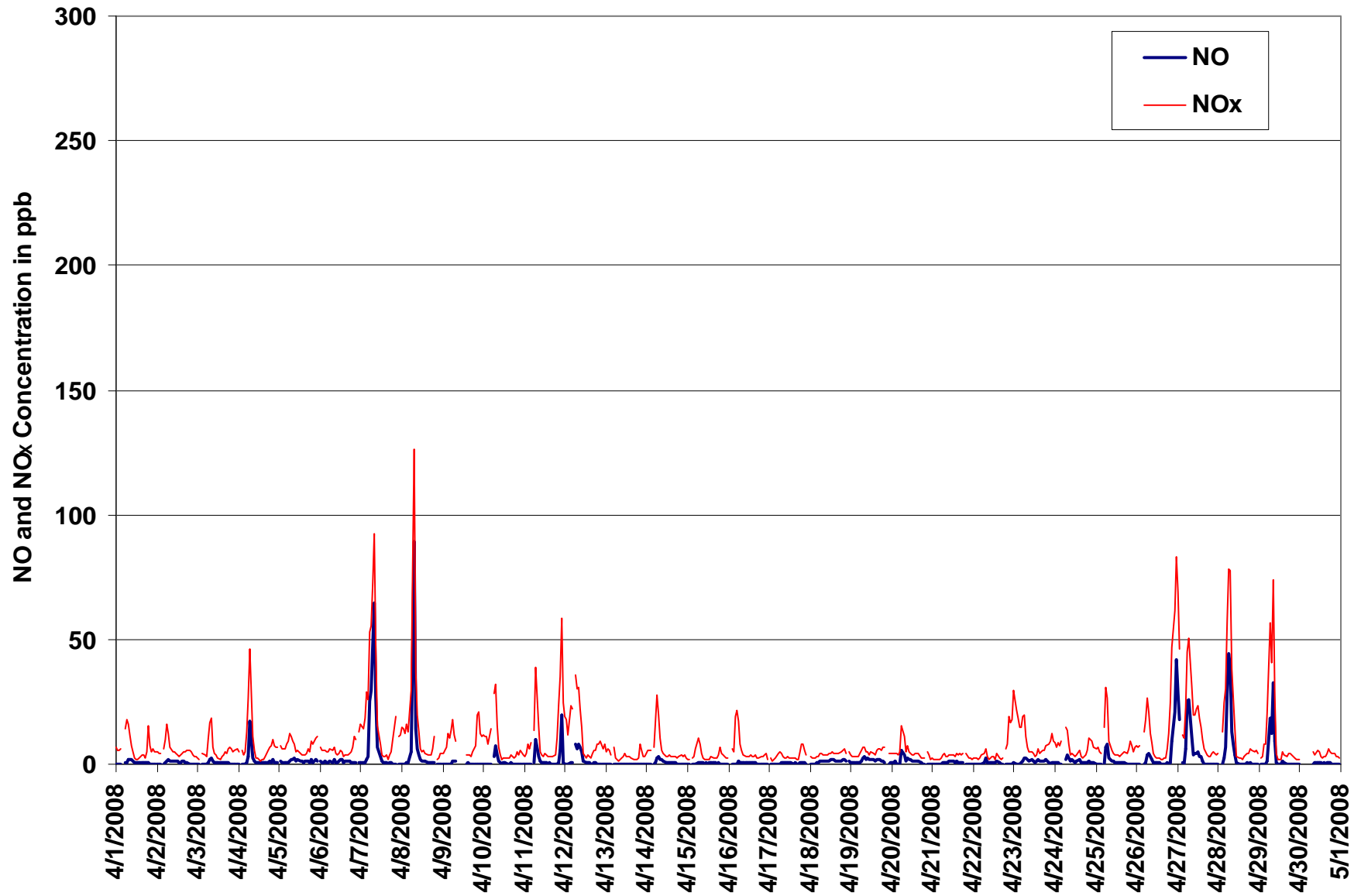


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

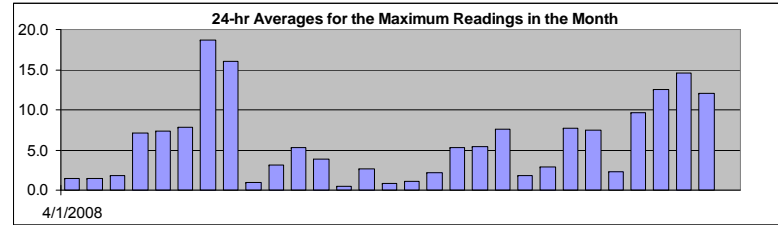
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	138.8	ppb	8-Apr	7:00 8:00
Maximum 24-hr Value:	18.7	ppb	7-Apr	



AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	77.5	21.0	5.5	1.6	0.6	0.0	0.0	5.8 ppb	1.6 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-08	0	0	0	0	A	7	3	2	3	3	2	2	1	1	2	2	2	1	1	1	0	0	0	0	1.5	7.3	
2-Apr-08	0	0	0	A	0	1	3	4	2	3	2	2	2	2	2	2	1	1	1	1	1	0	0	0	1.4	4.3	
3-Apr-08	0	0	A	0	0	0	3	10	9	2	2	2	2	1	1	2	2	1	1	1	1	0	0	0	1.8	9.7	
4-Apr-08	7	A	0	0	0	2	11	72	5	3	1	2	2	1	2	2	5	4	5	6	17	9	4	2	7.1	71.7	
5-Apr-08	A	15	3	6	1	1	2	4	4	15	2	6	3	8	5	4	9	10	3	14	9	21	16	A	7.3	20.9	
6-Apr-08	12	11	8	13	13	3	15	3	12	7	7	6	18	18	2	7	8	8	4	1	1	1	A	1	7.8	18.0	
7-Apr-08	2	1	1	4	9	42	46	124	90	79	12	5	3	2	1	2	1	1	1	1	1	A	0	0	18.7	124.3	
8-Apr-08	0	2	1	11	8	26	94	139	36	10	7	3	7	6	4	2	3	4	4	1	A	1	1	0	16.0	138.8	
9-Apr-08	0	0	0	1	0	1	4	4	2	C	C	C	C	A	1	1	1	1	1	0	1	1	0	0	1.0	4.0	
10-Apr-08	0	1	2	0	0	A	15	32	8	3	1	1	1	1	2	2	1	1	1	0	0	0	0	0	3.1	32.4	
11-Apr-08	0	0	0	0	0	A	2	20	9	2	2	2	1	1	1	1	1	1	1	1	3	30	41	3	5.3	41.2	
12-Apr-08	4	1	2	2	3	A	16	12	15	11	8	2	2	2	2	1	1	2	2	1	1	1	1	1	3.9	16.5	
13-Apr-08	0	0	0	0	A	3	2	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0.5	2.7	
14-Apr-08	0	1	0	A	0	2	6	7	6	24	2	2	2	2	1	1	1	1	1	0	0	0	0	0	2.6	23.7	
15-Apr-08	0	0	A	0	0	1	2	2	1	1	1	1	1	1	3	1	2	1	1	1	0	0	0	0	0.9	2.7	
16-Apr-08	0	A	0	0	1	2	6	1	1	1	1	1	2	1	2	2	1	1	0	0	0	0	0	0	1.1	5.9	
17-Apr-08	A	0	0	0	0	0	1	10	1	1	1	1	1	1	1	1	1	1	4	5	10	6	2	A	2.2	10.2	
18-Apr-08	1	1	1	2	2	5	9	5	4	4	8	3	4	9	4	7	11	6	5	8	8	8	A	7	5.3	10.6	
19-Apr-08	4	2	3	2	2	3	3	11	15	4	6	5	10	4	4	7	8	7	10	12	2	A	1	3	5.5	14.8	
20-Apr-08	4	8	8	2	2	2	63	26	3	11	14	7	3	6	5	2	4	2	1	1	A	1	1	0	7.6	63.1	
21-Apr-08	0	0	0	0	1	1	2	2	2	2	3	2	2	2	4	2	2	2	4	A	5	1	1	1	1.8	5.1	
22-Apr-08	0	2	0	0	1	1	2	32	2	1	2	2	2	1	4	1	1	1	A	1	8	1	1	2	2.8	31.5	
23-Apr-08	8	9	10	1	2	8	9	9	10	6	9	8	4	10	11	7	9	16	6	11	8	4	5	7	7.8	15.8	
24-Apr-08	6	6	5	2	1	A	7	20	10	7	11	8	5	6	8	5	5	4	7	12	10	7	10	10	7.4	20.4	
25-Apr-08	0	1	0	0	A	2	12	17	5	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	2.3	17.2	
26-Apr-08	0	1	0	A	0	2	9	9	5	4	2	1	1	1	1	1	1	1	1	1	5	51	49	77	9.6	77.0	
27-Apr-08	64	36	A	2	1	30	40	42	20	5	8	6	11	16	5	3	1	0	0	1	0	0	0	0	12.6	63.7	
28-Apr-08	0	A	3	14	22	64	83	84	28	11	5	2	1	1	1	2	1	2	1	9	0	1	1	0	14.5	83.8	
29-Apr-08	A	0	0	0	1	13	59	59	76	36	6	0	1	1	6	16	2	0	0	0	0	0	0	0	12.0	76.4	
30-Apr-08	0	P	P	P	P	P	P	P	1	1	2	2	1	1	1	1	1	2	1	1	1	0	0	0	N	2.3	
Hourly Avg	4.3	3.7	1.9	2.4	2.7	8.8	18.2	26.3	12.8	8.9	4.5	3.0	3.2	3.7	2.9	2.9	2.8	2.7	2.3	3.1	3.3	5.2	4.9	4.1			
Hourly Max	63.7	35.9	10.3	14.1	22.3	64.0	94.2	138.8	89.7	79.5	14.0	7.7	17.8	18.0	11.2	15.7	10.6	15.8	9.5	13.9	16.9	51.0	49.5	77.0			

Station: Henry Pirker
 Station Owner: PASZA

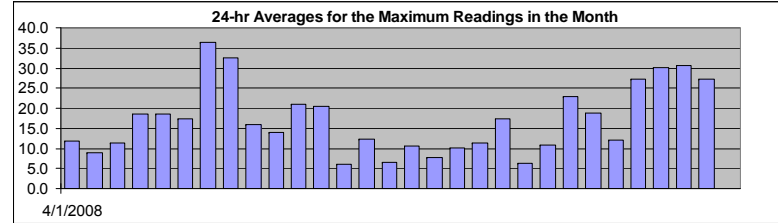
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	181.8	ppb	8-Apr	7:00 8:00
Maximum 24-hr Value:	36.4	ppb	7-Apr	



AIC Time:	30 hrs	Operational Time:	679 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	123.5	47.8	18.2	9.5	6.2	3.8	2.7	16.8 ppb	9.5 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-08	8	8	8	9	A	30	26	24	17	11	9	5	4	4	5	6	7	5	10	28	18	8	14	7	11.8	30.3	
2-Apr-08	7	6	6	A	10	18	24	21	10	11	7	6	8	7	6	7	8	8	8	7	7	5	5	4	9.0	24.2	
3-Apr-08	4	3	A	6	5	5	21	42	41	12	7	8	6	5	6	9	10	9	12	13	11	8	7	10	11.3	41.5	
4-Apr-08	20	A	7	5	9	21	42	114	22	11	5	6	5	4	6	5	15	13	18	17	34	23	14	11	18.6	113.8	
5-Apr-08	A	25	12	17	12	14	16	16	15	33	8	13	7	18	9	10	18	23	10	31	22	39	39	A	18.5	39.0	
6-Apr-08	24	22	16	24	27	9	31	10	20	16	14	12	24	31	5	14	16	17	11	11	14	13	A	18	17.4	31.4	
7-Apr-08	23	21	28	33	32	72	73	159	122	112	25	12	9	7	7	9	3	7	9	13	25	A	16	20	36.4	158.9	
8-Apr-08	17	18	17	40	27	67	132	182	68	30	21	11	16	15	11	9	8	11	11	23	A	4	4	7	32.5	181.8	
9-Apr-08	7	6	11	23	15	16	30	22	15	C	C	C	C	A	8	7	6	6	10	15	30	37	19	17	15.8	37.1	
10-Apr-08	17	18	17	12	19	A	47	59	30	13	6	5	5	9	7	6	7	7	4	5	8	6	8	5	13.9	59.0	
11-Apr-08	4	7	10	8	12	A	26	56	30	9	8	7	7	7	9	6	6	6	8	22	37	76	86	35	20.9	86.5	
12-Apr-08	29	24	24	31	31	A	49	40	41	34	20	7	6	7	7	5	7	10	12	13	15	22	16	17	20.4	48.8	
13-Apr-08	6	9	7	6	A	12	7	2	4	5	6	8	6	5	5	4	4	4	3	4	12	12	5	5	6.1	12.2	
14-Apr-08	7	9	7	A	22	27	36	37	18	36	11	7	7	7	6	6	5	4	4	5	6	5	5	5	12.3	36.6	
15-Apr-08	3	3	A	4	8	10	16	16	8	5	4	4	4	4	10	5	6	5	7	10	8	6	5	4	6.6	15.9	
16-Apr-08	3	A	8	8	33	41	43	12	8	7	6	6	7	7	9	6	7	5	3	4	4	6	7	5	10.6	42.7	
17-Apr-08	A	4	2	3	8	9	9	17	5	4	5	5	5	5	5	5	3	5	11	15	23	15	7	A	7.7	22.7	
18-Apr-08	6	4	4	5	5	12	16	10	8	9	13	8	9	13	9	10	11	12	11	15	17	13	A	13	10.1	17.3	
19-Apr-08	9	5	7	5	6	7	9	16	24	9	11	10	17	7	8	13	16	16	18	22	12	A	7	7	11.3	24.0	
20-Apr-08	13	15	17	7	7	9	127	48	9	21	25	15	6	11	13	6	11	6	6	7	A	9	9	3	17.4	127.4	
21-Apr-08	3	2	3	3	4	4	6	7	6	5	6	6	5	7	10	8	8	7	12	A	16	5	5	3	6.2	15.9	
22-Apr-08	4	6	6	5	4	11	7	9	7	3	5	6	6	5	13	5	6	4	A	12	35	38	26	27	10.8	37.8	
23-Apr-08	45	31	37	22	23	31	35	21	23	13	16	17	10	18	22	12	19	33	15	24	19	16	23	23	22.9	44.7	
24-Apr-08	20	17	15	13	12	A	22	39	20	13	22	16	11	12	21	13	10	11	16	24	26	22	30	25	18.7	38.6	
25-Apr-08	9	12	6	6	A	21	38	47	17	8	7	8	7	8	6	7	7	7	6	10	12	10	9	11	12.1	47.3	
26-Apr-08	10	13	11	A	18	28	39	34	18	14	8	5	5	5	5	5	6	5	12	31	45	96	94	120	27.2	120.1	
27-Apr-08	109	73	A	16	16	53	65	70	45	24	28	28	38	41	20	14	9	5	5	6	6	8	10	7	30.2	109.2	
28-Apr-08	6	A	19	48	52	97	127	128	61	35	19	8	4	5	5	7	7	7	6	26	9	9	11	9	30.6	127.9	
29-Apr-08	A	4	5	14	15	49	110	104	133	82	13	3	4	5	18	21	13	10	6	6	4	4	3	3	27.2	133.4	
30-Apr-08	3	P	P	P	P	P	P	P	6	6	10	9	4	4	5	6	7	10	8	7	8	5	5	3	N	10.5	
Hourly Avg	15.4	13.9	11.9	14.3	16.6	26.9	42.4	46.8	28.4	20.4	11.8	9.0	8.7	9.7	9.2	8.2	8.9	9.3	9.4	14.7	17.2	18.6	17.4	15.0			
Hourly Max	109.2	72.7	36.7	47.6	52.2	97.1	132.0	181.8	133.4	111.9	27.8	27.7	38.4	40.8	22.4	21.1	18.7	33.4	18.3	30.7	45.4	95.9	94.1	120.1			

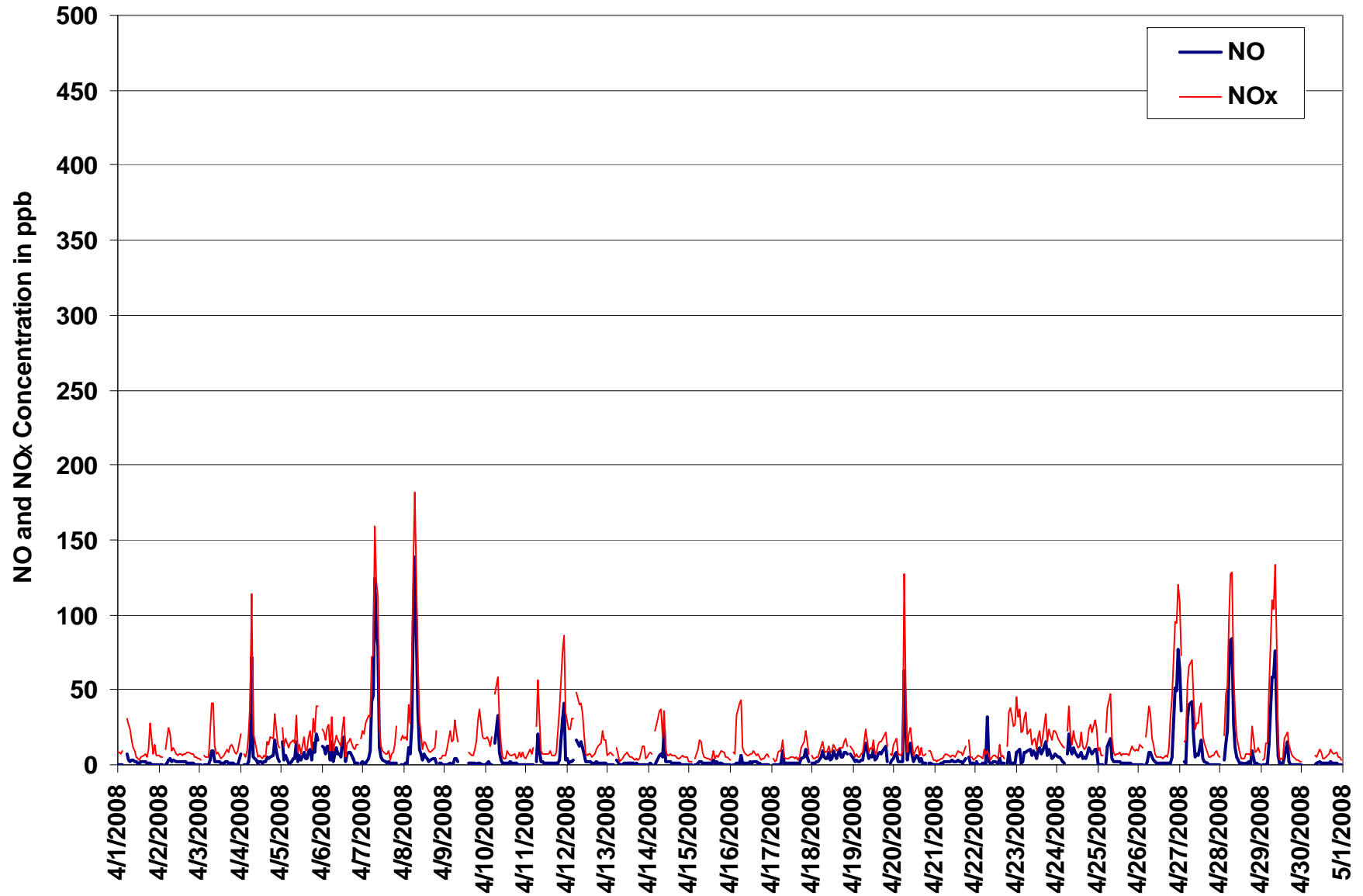


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

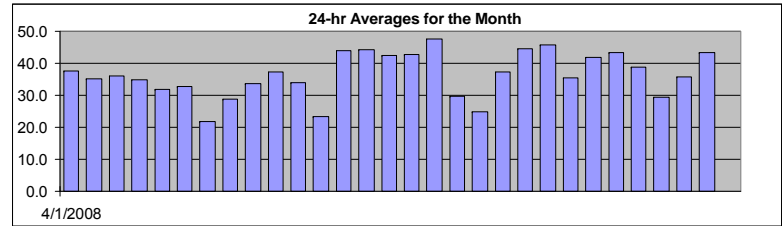
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	56.6 ppb	29-Apr	16:00 17:00
Maximum 24-hr Average:	47.6 ppb	17-Apr	



AIC Time:	31 hrs	Operational Time:	677 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	54.7	52.1	45.8	38.1	29.5	11.6	2.4	36.4 ppb	38.1 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	35	37	38	36	A	27	23	27	32	36	41	45	46	47	47	46	45	44	41	30	36	38	35	35	37.7	47.3	
2-Apr-08	35	36	34	A	31	27	22	27	33	36	38	40	40	41	41	39	38	38	36	35	35	36	36	36	35.3	41.1	
3-Apr-08	37	38	A	35	36	36	29	23	25	36	39	40	42	42	42	41	40	39	36	35	36	37	35	34	36.1	41.9	
4-Apr-08	33	A	33	34	32	25	13	11	30	36	39	41	44	45	45	46	45	45	43	36	32	35	34	28	35.0	45.9	
5-Apr-08	A	27	28	28	25	22	22	25	28	32	34	34	37	42	42	41	40	38	38	31	29	27	25	A	31.7	42.0	
6-Apr-08	30	32	31	31	30	31	29	30	31	35	34	35	34	35	36	38	39	39	38	34	29	29	A	24	32.7	39.4	
7-Apr-08	18	19	11	2	2	0	1	2	3	9	20	29	40	42	40	40	42	40	38	31	21	A	27	24	21.8	42.2	
8-Apr-08	20	19	20	19	21	12	1	3	18	27	33	39	41	42	42	42	43	42	39	32	A	39	37	33	28.9	42.7	
9-Apr-08	32	29	26	17	21	20	21	33	38	41	44	46	46	C	C	C	A	50	47	41	27	24	34	34	33.6	50.5	
10-Apr-08	33	29	24	28	21	A	14	16	30	39	45	48	48	48	48	48	46	47	46	43	39	39	36	39	37.1	48.5	
11-Apr-08	39	38	33	34	31	A	28	11	28	40	43	46	46	46	47	47	47	47	45	35	19	13	5	16	34.1	47.0	
12-Apr-08	16	14	21	9	9	A	3	7	8	15	23	30	32	32	34	34	33	33	33	32	30	28	31	28	23.2	34.2	
13-Apr-08	30	29	29	26	A	19	33	47	51	54	52	50	51	51	52	53	55	56	55	50	40	42	43	43	43.9	56.3	
14-Apr-08	41	39	38	A	36	27	22	30	39	47	48	50	51	53	53	52	51	51	51	49	48	48	47	47	44.2	52.9	
15-Apr-08	47	46	A	43	39	36	33	35	40	44	45	45	46	46	45	46	46	45	44	39	41	40	41	42	42.4	47.1	
16-Apr-08	43	A	39	40	25	22	30	40	44	46	47	47	47	47	47	47	47	48	47	47	45	44	44	46	42.6	47.5	
17-Apr-08	A	49	52	52	51	47	48	50	50	51	53	50	51	51	51	51	51	50	45	39	37	35	34	A	47.6	52.7	
18-Apr-08	36	36	36	37	37	35	32	29	29	28	27	28	29	28	29	28	28	27	28	26	24	24	A	22	29.7	36.8	
19-Apr-08	22	21	22	23	22	21	20	20	21	22	22	23	24	25	27	27	29	30	30	29	28	A	30	32	24.8	31.8	
20-Apr-08	32	34	36	35	35	34	32	33	35	35	35	36	37	39	39	40	40	41	40	40	A	42	42	42	37.3	42.2	
21-Apr-08	43	42	41	39	39	38	38	38	39	40	43	45	46	47	49	48	49	52	50	A	50	50	49	49	44.5	51.7	
22-Apr-08	49	49	48	48	48	46	45	44	45	46	48	49	50	50	50	51	51	50	A	47	44	31	33	30	45.8	51.0	
23-Apr-08	16	20	22	23	20	20	30	40	43	44	45	46	47	C	C	A	46	46	45	42	40	37	34	36	35.4	47.0	
24-Apr-08	38	39	36	38	36	A	33	36	40	43	44	45	46	46	46	48	48	48	47	45	41	38	39	41	41.9	48.3	
25-Apr-08	41	39	39	42	A	29	16	27	41	45	47	48	50	52	53	53	51	50	49	46	42	43	46	45	43.3	52.6	
26-Apr-08	44	41	40	A	34	28	23	32	40	45	50	53	54	54	55	55	54	54	49	42	26	10	7	4	38.9	55.3	
27-Apr-08	3	2	A	8	7	3	4	9	22	30	30	31	33	41	48	51	52	54	49	44	39	37	40	39	29.4	54.2	
28-Apr-08	33	A	17	7	2	2	4	9	22	30	37	46	49	52	55	54	53	54	54	52	50	50	46	47	35.9	54.9	
29-Apr-08	A	53	50	42	40	25	9	15	15	37	50	53	54	56	53	55	57	51	50	45	44	45	47	49	43.2	56.6	
30-Apr-08	48	P	P	P	P	P	P	P	40	39	37	32	31	32	31	30	30	27	27	27	26	26	26	27	N	48.4	
Hourly Avg	33.1	33.0	32.5	29.8	28.1	25.2	22.6	25.9	32.0	36.9	39.7	41.7	43.1	44.0	44.5	44.7	44.7	44.6	42.9	38.7	35.6	35.3	35.0	34.8			
Hourly Max	49.2	53.0	52.3	52.1	50.6	46.9	48.1	50.1	50.5	53.5	52.7	53.1	54.4	56.1	55.0	55.3	56.6	56.3	54.6	52.4	50.3	50.1	49.4	49.4			

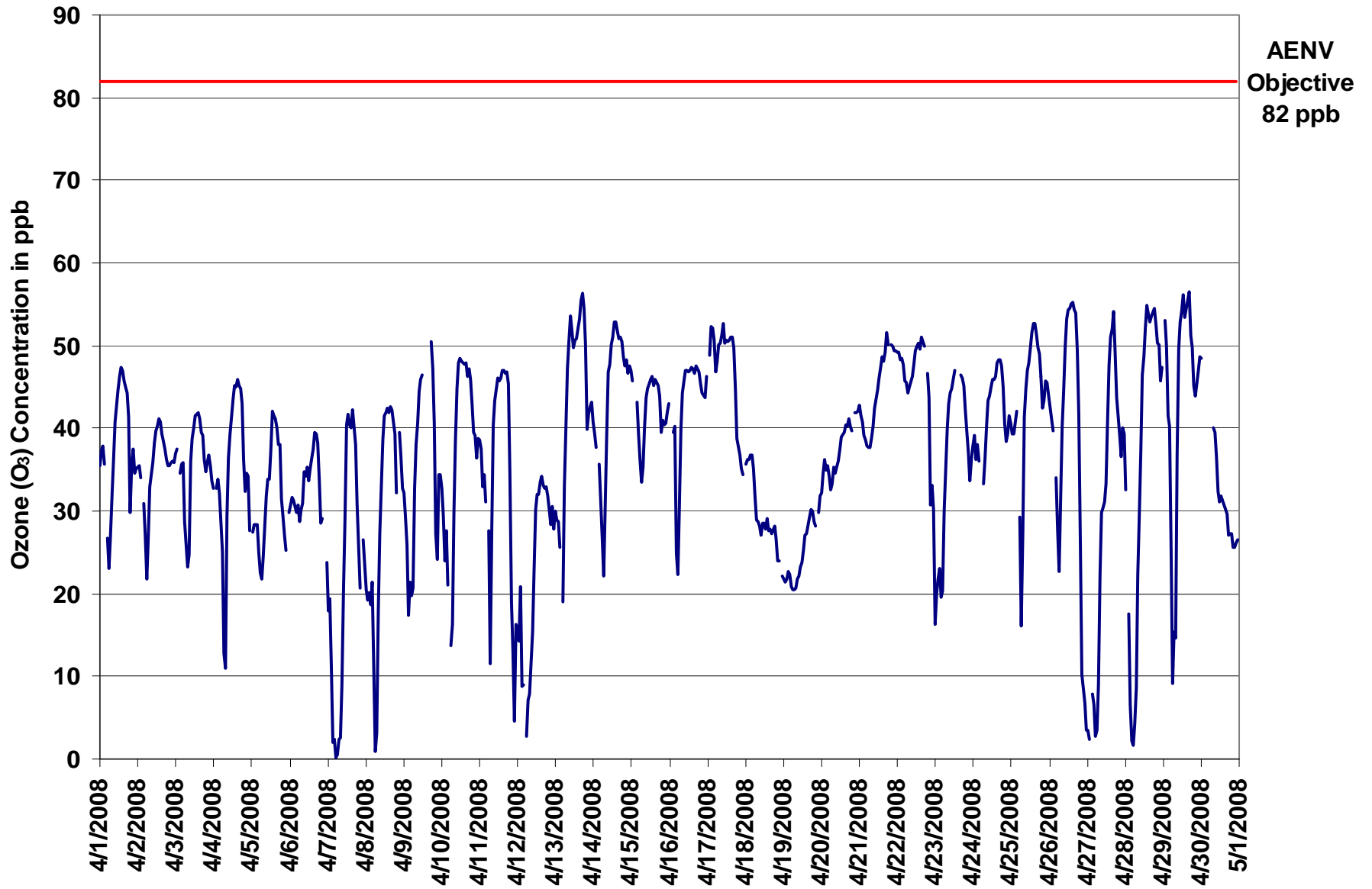


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

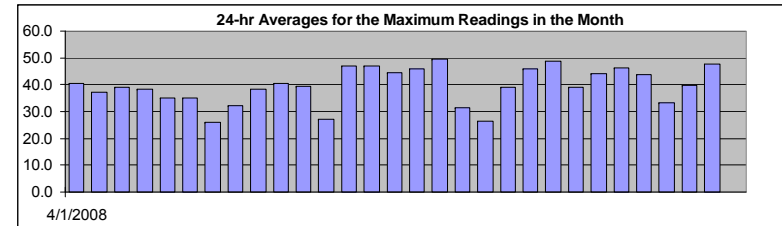
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	60.7	ppb	29-Apr	16:00 17:00
Maximum 24-hr Value:	49.7	ppb	17-Apr	



AIC Time:	31 hrs	Operational Time:	677 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	56.9	54.2	47.9	40.8	33.2	21.5	4.2	39.4 ppb	40.8 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	38	40	39	37	A	30	30	33	36	39	45	46	48	48	48	47	46	44	40	38	40	37	37	40.6	48.5	
2-Apr-08	36	37	35	A	33	30	26	31	35	39	40	41	42	43	42	41	40	40	38	38	37	37	37	37.1	42.8	
3-Apr-08	38	39	A	36	37	38	36	34	36	38	41	42	43	43	43	43	42	40	38	39	39	37	38	39.2	43.1	
4-Apr-08	36	A	35	35	35	30	24	22	33	39	41	43	46	46	46	47	46	47	47	42	35	38	37	35	38.4	47.5
5-Apr-08	A	30	31	31	30	26	26	31	31	35	36	36	41	46	43	43	42	44	41	34	33	30	27	A	34.9	46.4
6-Apr-08	32	34	33	32	33	33	32	33	34	38	36	38	35	37	37	40	41	42	41	37	30	31	A	28	35.2	41.9
7-Apr-08	23	23	20	4	9	1	1	4	4	18	23	41	42	43	43	43	43	43	41	39	27	A	31	28	25.9	43.4
8-Apr-08	24	23	23	22	27	23	2	8	23	31	37	41	42	44	44	44	45	45	42	39	A	40	38	36	32.3	44.9
9-Apr-08	34	31	30	26	25	23	27	39	42	45	47	47	48	C	C	C	A	53	52	48	40	37	38	37	38.4	52.8
10-Apr-08	35	35	32	32	28	A	20	21	36	43	49	49	50	50	50	50	49	49	48	45	42	41	40	41	40.6	50.2
11-Apr-08	40	41	35	35	35	A	34	22	39	43	47	48	48	48	48	49	49	48	48	44	31	26	20	25	39.2	49.0
12-Apr-08	21	25	27	16	12	A	4	11	10	21	29	32	34	34	36	36	36	37	36	35	33	33	33	31	27.0	36.7
13-Apr-08	31	31	31	30	A	26	40	50	54	56	55	52	52	53	54	55	58	58	57	54	47	45	45	47	47.0	58.0
14-Apr-08	44	43	42	A	39	32	28	37	46	49	49	52	54	55	55	54	52	52	52	51	49	50	48	50	47.0	54.7
15-Apr-08	49	47	A	46	42	40	39	38	44	46	46	47	47	47	47	47	47	47	46	43	43	42	42	43	44.6	48.7
16-Apr-08	44	A	43	43	38	37	40	44	46	48	48	48	48	49	49	49	49	49	48	48	48	47	47	48	46.0	49.2
17-Apr-08	A	51	54	53	53	50	51	52	52	53	54	51	52	52	52	53	52	52	47	44	41	37	36	A	49.7	54.3
18-Apr-08	37	37	38	38	38	38	35	30	30	29	28	30	30	30	31	29	29	29	30	29	26	25	A	24	31.3	38.1
19-Apr-08	24	22	23	24	24	22	22	22	22	23	23	24	25	26	29	29	31	32	32	31	30	A	31	33	26.3	33.0
20-Apr-08	34	38	38	36	37	36	35	36	37	36	36	37	39	41	41	42	42	42	41	41	A	43	44	43	38.9	43.8
21-Apr-08	43	43	42	40	39	38	38	39	40	41	44	46	48	49	50	50	51	53	53	A	52	51	51	50	45.8	53.5
22-Apr-08	50	51	49	49	49	48	47	47	46	48	50	51	51	51	51	52	52	51	A	50	48	44	43	42	48.7	51.9
23-Apr-08	25	25	28	28	27	29	40	43	45	46	46	47	48	C	C	A	48	48	47	45	42	40	37	39	39.1	48.3
24-Apr-08	40	42	39	41	38	A	36	40	42	45	45	46	47	48	49	49	50	50	50	48	44	41	44	44	44.2	50.0
25-Apr-08	44	42	43	44	A	35	25	39	45	47	48	49	51	54	54	54	54	52	51	49	45	46	48	48	46.4	54.4
26-Apr-08	46	45	43	A	37	37	26	38	44	48	53	55	56	56	57	57	56	56	55	50	40	26	22	7	43.9	56.8
27-Apr-08	8	4	A	11	9	5	5	15	31	35	35	34	38	45	53	54	54	58	54	47	46	43	43	42	33.3	57.8
28-Apr-08	36	A	23	16	4	3	9	14	28	35	45	49	51	55	57	56	56	55	57	55	53	51	49	54	39.6	56.8
29-Apr-08	A	56	52	48	45	35	25	24	21	48	53	54	56	58	56	57	61	53	52	48	47	48	48	50	47.6	60.7
30-Apr-08	49	P	P	P	P	P	P	P	42	42	40	35	34	34	32	32	31	30	29	29	28	27	27	27	N	49.4
Hourly Avg	35.6	35.9	35.7	32.8	31.6	29.7	27.6	30.9	35.8	40.2	42.3	43.7	44.9	45.9	46.4	46.5	46.8	46.8	45.4	42.8	39.7	39.2	38.7	38.0		
Hourly Max	50.4	55.8	53.5	52.7	52.7	49.8	51.2	52.2	54.3	55.9	54.8	54.7	56.1	57.6	56.8	57.3	60.7	58.0	57.5	55.3	53.3	51.4	50.8	54.0		

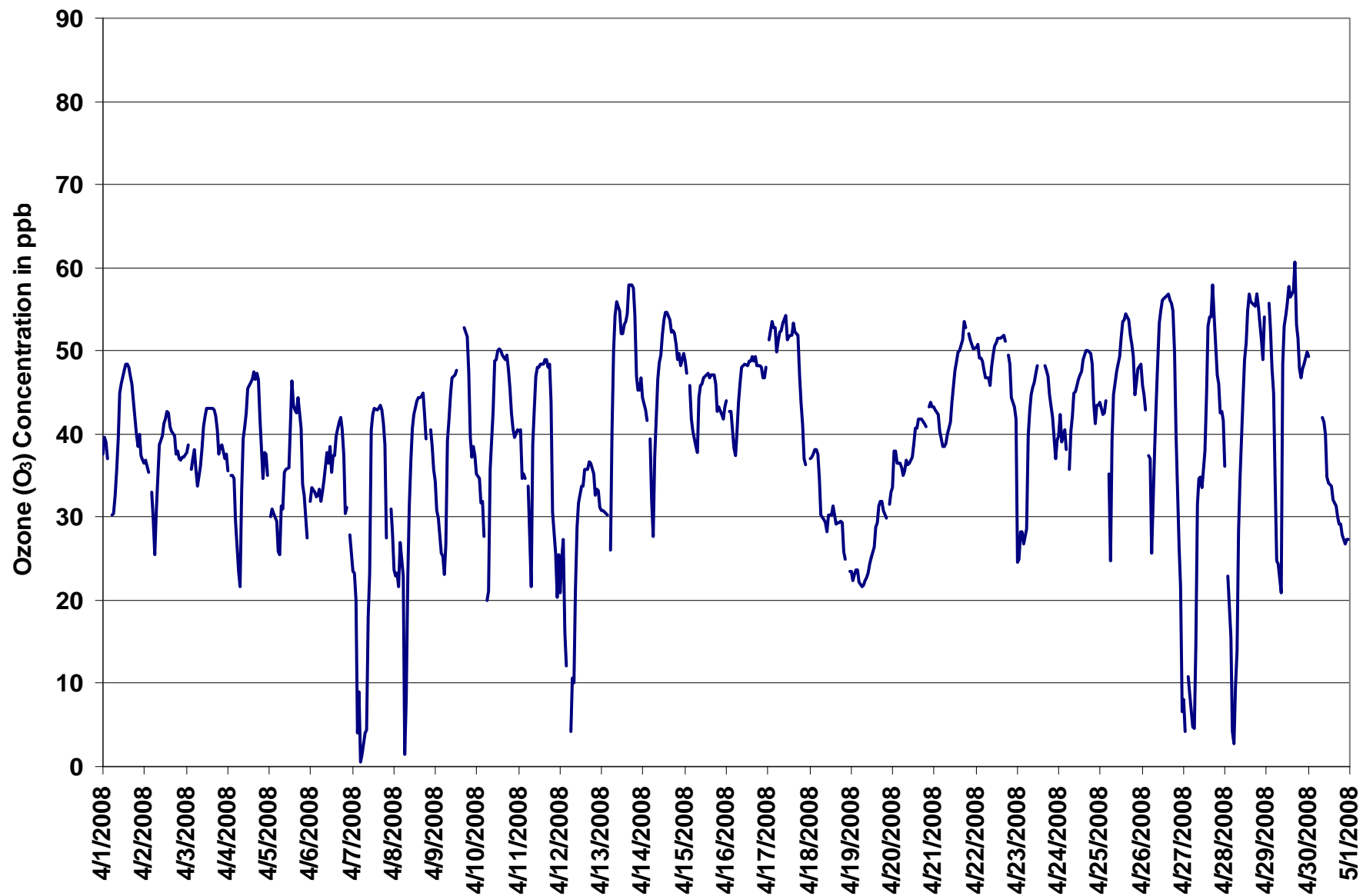
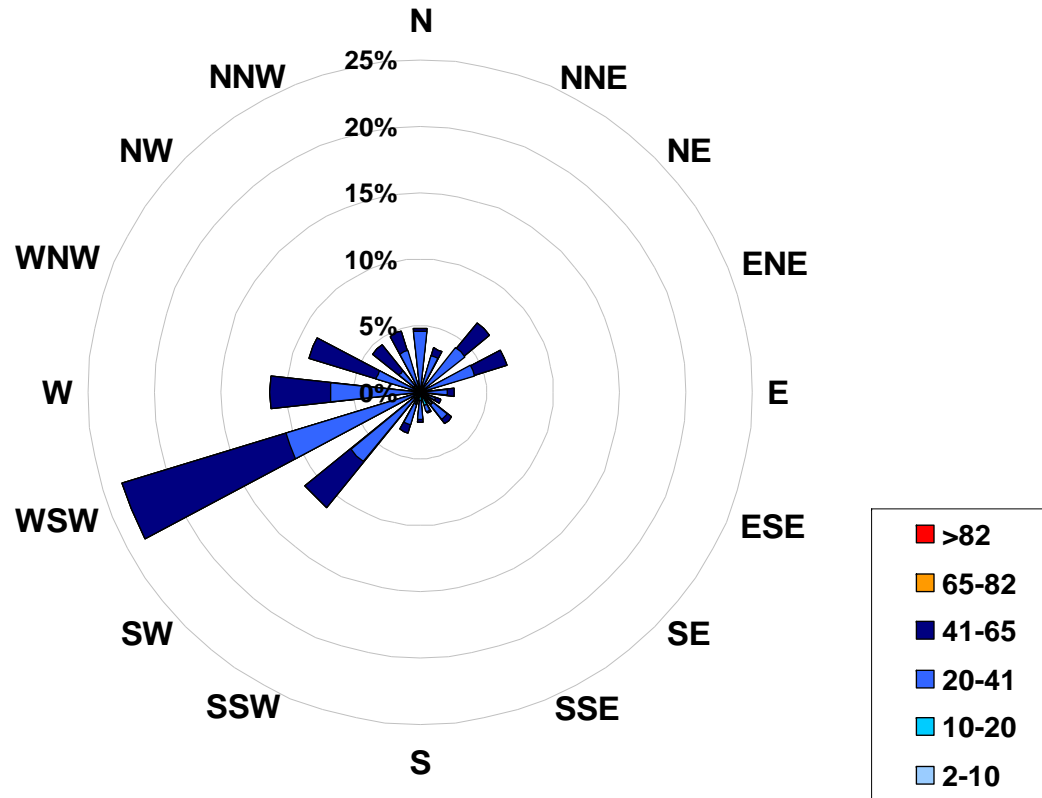


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	30
10	to	20	28
20	to	41	356
41	to	65	263
65	to	82	0
	>	82	0
Total Non-Zero Values			677

PASZA - Henry Pirker Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

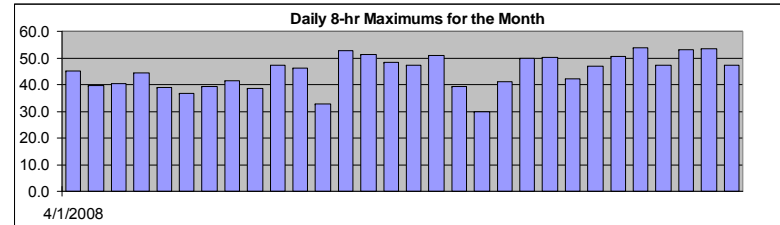
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb
 Summary

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	53.8 ppb 26-Apr 17:00 18:00



Percentile	99	95	75	50	25	5	1
	52.8	50.5	43.7	36.7	30.4	15.9	6.8

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
1-Apr-08	38	37	36	36	36	35	33	32	31	31	32	33	35	37	40	42	44	45	45	43	42	41	39	38	45.2	
2-Apr-08	37	36	35	35	35	33	31	30	30	30	31	32	33	35	37	39	39	39	39	39	39	38	37	37	36	39.5
3-Apr-08	36	36	36	36	36	36	35	33	31	31	32	33	34	34	36	38	40	40	40	40	39	38	37	36	40.5	
4-Apr-08	36	35	35	34	34	32	29	26	25	27	28	28	30	32	36	41	43	44	44	44	44	42	41	40	37	44.2
5-Apr-08	36	34	32	30	29	28	26	25	26	26	27	28	29	32	34	36	38	38	39	39	39	38	36	34	33	39.0
6-Apr-08	31	30	29	29	29	30	30	30	31	31	31	32	32	33	34	35	36	36	37	37	36	35	35	33	36.9	
7-Apr-08	30	27	23	19	15	11	10	7	5	4	5	8	13	18	23	28	33	37	39	39	37	36	34	32	39.3	
8-Apr-08	29	26	23	21	21	20	17	14	14	15	17	19	22	25	31	36	39	40	41	41	40	40	39	38	41.3	
9-Apr-08	36	35	33	30	29	27	25	25	26	27	29	33	36	38	N	N	N	N	N	N	N	N	N	37	38.4	
10-Apr-08	36	34	31	29	28	29	26	24	23	24	27	30	34	36	40	44	46	47	47	47	47	46	45	43	42	47.4
11-Apr-08	41	40	38	37	36	36	34	30	29	29	31	33	35	36	38	43	45	46	46	45	42	37	32	28	46.3	
12-Apr-08	24	20	17	14	13	13	13	11	10	10	11	14	17	19	23	26	29	31	33	33	33	32	32	31	32.8	
13-Apr-08	31	30	30	29	29	27	28	30	33	37	40	44	44	48	51	52	52	52	53	53	52	50	49	48	52.9	
14-Apr-08	46	44	42	41	40	38	35	33	33	34	36	37	39	43	46	49	51	51	51	51	51	51	50	49	49	51.4
15-Apr-08	48	48	47	47	45	44	42	40	39	39	40	40	41	42	43	45	45	46	45	45	44	43	43	42	48.4	
16-Apr-08	42	41	41	41	39	36	35	34	34	36	37	38	40	43	46	47	47	47	47	47	47	47	46	46	47.1	
17-Apr-08	46	46	47	48	48	49	49	50	50	50	50	50	50	50	51	51	51	51	50	48	47	45	43	42	51.0	
18-Apr-08	39	37	36	36	36	36	35	35	34	33	32	31	30	29	28	28	28	28	28	28	27	27	26	26	39.3	
19-Apr-08	25	24	23	23	22	22	22	21	21	21	21	21	22	22	23	24	25	26	27	28	28	28	29	30	29.7	
20-Apr-08	30	31	32	33	34	34	34	34	35	35	34	35	35	35	36	37	38	39	39	40	40	40	41	41	41.0	
21-Apr-08	41	41	42	41	41	41	40	40	39	39	39	40	41	42	43	45	46	47	48	49	49	50	50	50	50.0	
22-Apr-08	50	50	49	49	48	48	47	47	46	46	46	47	47	48	49	49	50	50	50	50	49	46	44	41	50.1	
23-Apr-08	36	32	30	27	24	23	23	24	27	30	33	36	39	42	N	N	N	N	N	N	N	N	41	41	42.2	
24-Apr-08	40	39	38	37	37	37	37	37	37	38	39	40	41	42	43	45	46	46	47	47	47	46	45	44	44	46.9
25-Apr-08	43	42	41	40	40	39	35	33	34	34	35	36	38	41	45	48	50	50	51	50	49	48	48	47	50.6	
26-Apr-08	46	45	44	43	42	40	36	34	34	34	36	38	41	44	48	51	53	54	54	52	49	43	37	31	53.8	
27-Apr-08	24	18	13	9	6	5	4	5	8	12	14	17	20	25	30	36	39	43	45	46	47	47	46	44	47.2	
28-Apr-08	42	40	36	30	25	20	15	10	9	12	14	19	25	31	38	43	47	50	52	53	53	53	52	51	53.0	
29-Apr-08	51	51	50	48	47	43	38	33	31	29	29	30	32	36	42	46	52	54	54	53	51	50	49	48	53.6	
30-Apr-08	47	47	N	N	N	N	N	N	N	N	N	N	N	N	35	34	33	31	30	29	29	28	27	27	47.5	

Hourly Max 50.6 50.5 49.9 49.2 48.9 48.7 49.3 49.9 49.9 50.2 50.3 50.0 50.0 50.5 50.8 51.5 52.6 53.8 53.8 52.9 53.0 52.8 51.6 50.8

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

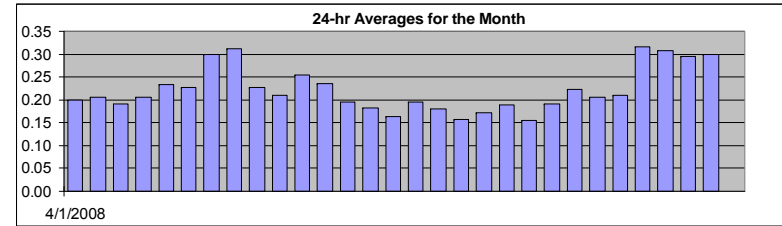
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 13 ppm 24-hr na ppm
 Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	1.3	ppm	8-Apr	7:00 8:00
Maximum 24-hr Value:	0.3	ppm	26-Apr	



AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.4	0.2	0.2	0.2	0.2	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.20	0.28
2-Apr-08	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.24
3-Apr-08	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.24
4-Apr-08	0.2	A	0.2	0.1	0.1	0.2	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.45
5-Apr-08	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	A	0.23	0.27	
6-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.3	0.23	0.27	
7-Apr-08	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.3	0.30	0.58	
8-Apr-08	0.3	0.3	0.2	0.2	0.2	0.6	0.8	1.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.31	1.27	
9-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.23	0.33	
10-Apr-08	0.2	0.2	0.2	0.2	0.2	A	0.3	0.4	0.3	0.3	0.3	C	C	C	C	A	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.21	0.36		
11-Apr-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.8	0.4	0.25	0.76	
12-Apr-08	0.3	0.3	0.3	0.3	0.3	A	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.37	
13-Apr-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.22	
14-Apr-08	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.27	
15-Apr-08	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.20	
16-Apr-08	0.2	A	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.26	
17-Apr-08	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.18	0.22	
18-Apr-08	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.16	0.18	
19-Apr-08	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.17	0.23	
20-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.19	0.30	
21-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.15	0.17	
22-Apr-08	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.3	0.2	0.19	0.30	
23-Apr-08	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.22	0.32	
24-Apr-08	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28	
25-Apr-08	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.21	0.33	
26-Apr-08	0.2	0.2	0.2	A	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.9	1.2	0.32	1.15	
27-Apr-08	0.8	0.6	A	0.2	0.2	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.31	0.84	
28-Apr-08	0.2	A	0.2	0.3	0.3	0.5	0.8	0.7	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30	0.77	
29-Apr-08	A	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.30	0.61	
30-Apr-08	0.3	P	P	P	P	P	P	P	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	0.25	
Hourly Avg	0.23	0.22	0.19	0.19	0.20	0.25	0.31	0.32	0.25	0.22	0.20	0.20	0.19	0.20	0.20	0.19	0.19	0.19	0.20	0.21	0.23	0.24	0.25	0.24				
Hourly Max	0.84	0.61	0.26	0.31	0.30	0.57	0.77	1.27	0.61	0.41	0.30	0.32	0.31	0.30	0.29	0.26	0.26	0.28	0.28	0.28	0.40	0.71	0.93	1.15				

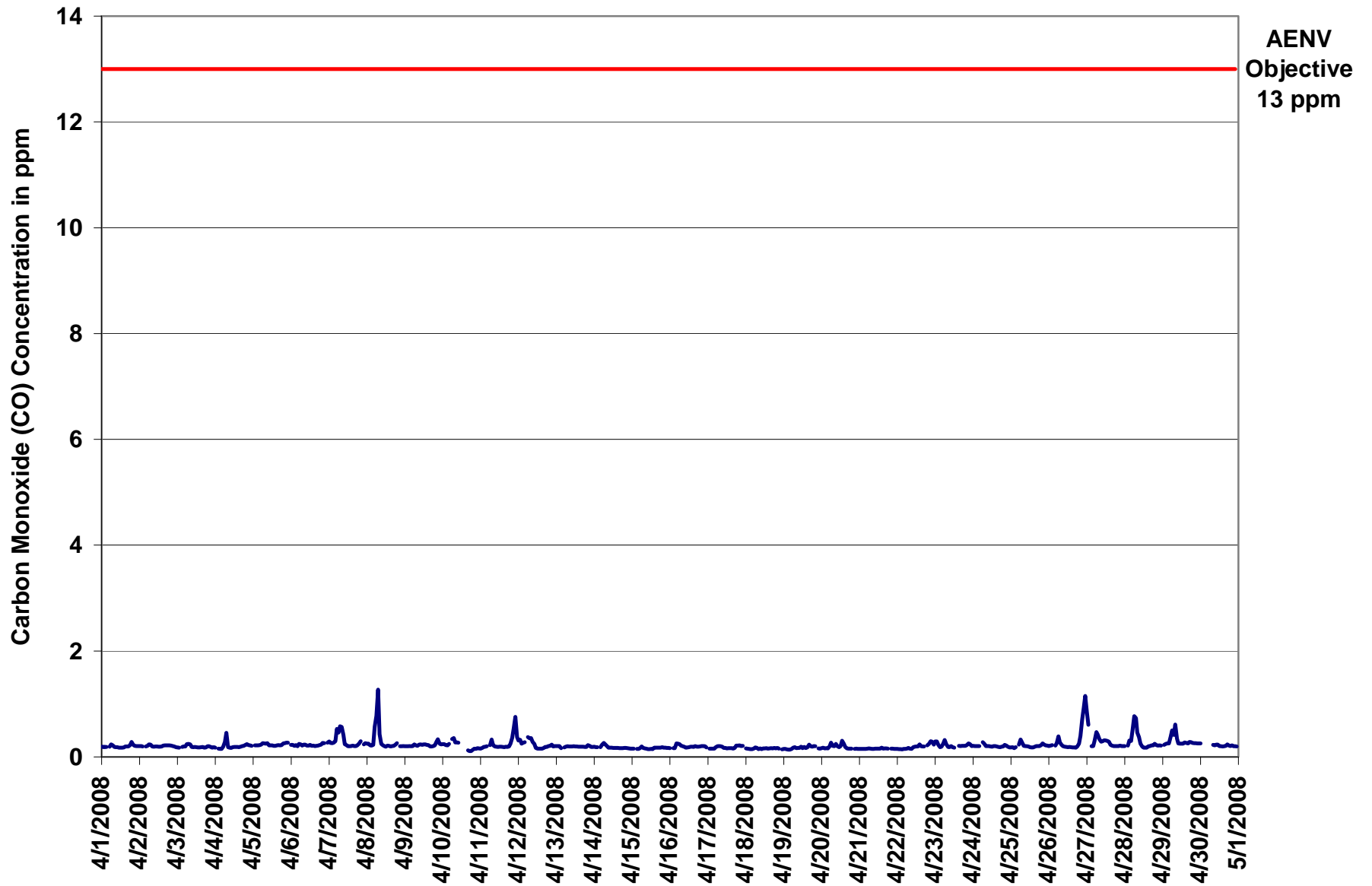


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

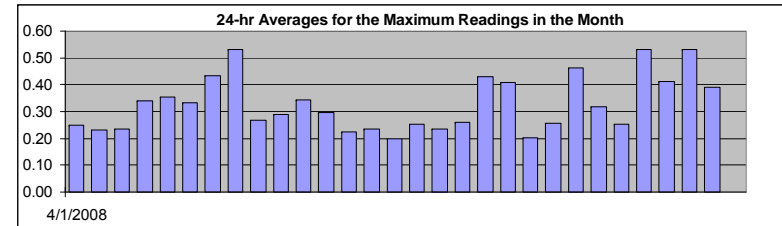
Carbon Monoxide (CO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	3.7	ppm	28-Apr	6:00 7:00
Maximum 24-hr Value:	0.5	ppm	26-Apr	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.8	0.3	0.3	0.2	0.2	0.2	0.3 ppm	0.3 ppm



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-08	0.2	0.2	0.2	0.2	A	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.25	0.45	
2-Apr-08	0.2	0.2	0.2	A	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.30	
3-Apr-08	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.24	0.34	
4-Apr-08	0.2	A	0.2	0.2	0.2	0.3	0.8	1.6	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.34	1.64	
5-Apr-08	A	0.3	0.3	0.2	0.3	0.4	0.4	0.6	0.7	0.7	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.4	A	0.36	0.71	
6-Apr-08	0.3	0.3	0.2	0.3	0.3	0.6	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.3	0.3	0.3	A	0.5	0.33	0.57	
7-Apr-08	0.6	0.4	0.3	0.4	0.4	1.1	0.6	1.3	0.8	0.7	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.4	A	0.3	0.4	0.43	1.28	
8-Apr-08	0.3	0.3	0.2	0.3	0.3	2.3	1.4	1.9	0.8	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.9	0.4	A	0.2	0.2	0.53	2.33	
9-Apr-08	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.27	0.50	
10-Apr-08	0.2	0.3	0.3	0.2	0.3	A	1.0	0.5	0.3	0.3	C	C	C	C	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.29	1.01	
11-Apr-08	0.2	0.2	0.2	0.2	0.2	A	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	1.1	1.1	0.5	0.34	1.12
12-Apr-08	0.4	0.4	0.3	0.3	0.4	A	0.5	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.30	0.51	
13-Apr-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.22	0.32
14-Apr-08	0.3	0.2	0.2	A	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.42	
15-Apr-08	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.27	
16-Apr-08	0.2	A	0.2	0.2	0.9	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.25	0.95	
17-Apr-08	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	A	0.24	0.44	
18-Apr-08	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.4	0.2	A	0.2	0.26	0.40
19-Apr-08	0.2	0.2	0.2	0.2	0.2	0.3	1.3	0.5	0.4	0.4	0.3	1.0	0.5	0.5	0.4	0.3	1.3	0.2	0.5	0.5	0.5	A	0.2	0.43	1.28	
20-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	2.1	0.4	0.3	0.3	0.5	1.1	0.3	0.4	0.8	0.3	0.4	0.3	0.2	0.2	A	0.2	0.2	0.41	2.05	
21-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	A	0.4	0.2	0.2	0.20	0.41	
22-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.2	A	0.2	0.3	0.4	0.4	0.3	0.26	0.64
23-Apr-08	0.4	1.2	1.3	0.3	0.4	0.6	0.6	0.6	0.3	0.5	0.8	0.3	0.2	A	A	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.46	1.32
24-Apr-08	0.3	0.2	0.3	0.2	0.2	A	0.7	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.32	0.70	
25-Apr-08	0.3	0.2	0.2	0.2	A	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.25	0.46	
26-Apr-08	0.2	0.3	0.3	A	0.3	0.7	2.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	1.4	1.4	1.6	0.53	2.16	
27-Apr-08	1.1	0.9	A	0.2	0.2	1.1	0.7	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.41	1.07	
28-Apr-08	0.2	A	0.3	0.4	0.4	1.2	3.7	1.2	0.6	0.5	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.53	3.73	
29-Apr-08	A	0.3	0.3	0.3	0.3	0.9	0.7	0.7	0.8	0.6	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.39	0.91	
30-Apr-08	0.3	P	P	P	P	P	P	P	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	N	0.27	
Hourly Avg	0.28	0.29	0.27	0.23	0.27	0.54	0.73	0.53	0.36	0.32	0.27	0.30	0.25	0.26	0.29	0.25	0.28	0.24	0.30	0.28	0.32	0.34	0.32	0.31		
Hourly Max	1.06	1.19	1.32	0.40	0.95	2.33	3.73	1.92	0.80	0.71	0.80	1.12	0.45	0.54	0.78	0.41	1.28	0.31	0.95	0.47	0.57	1.44	1.36	1.61		

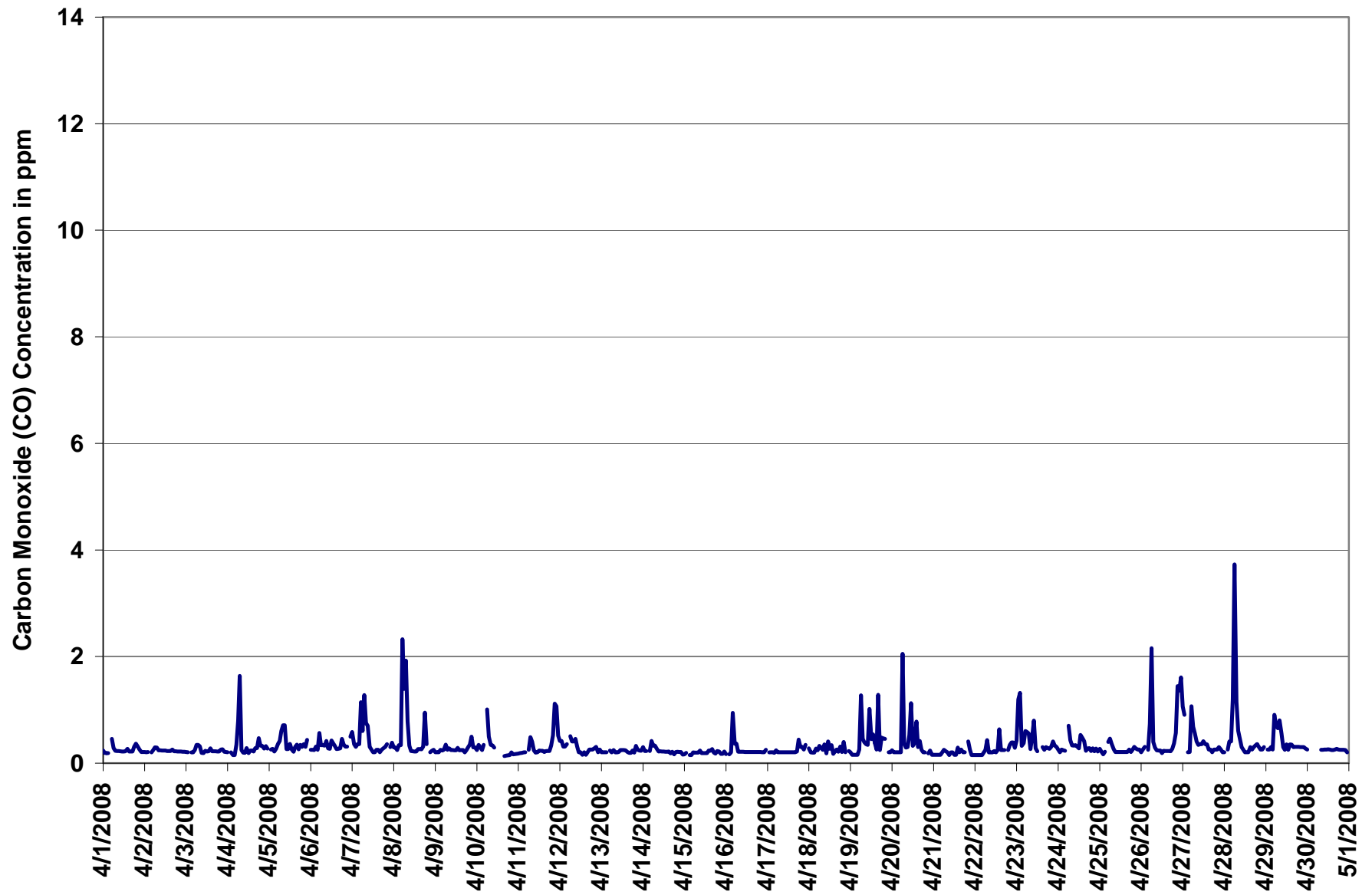
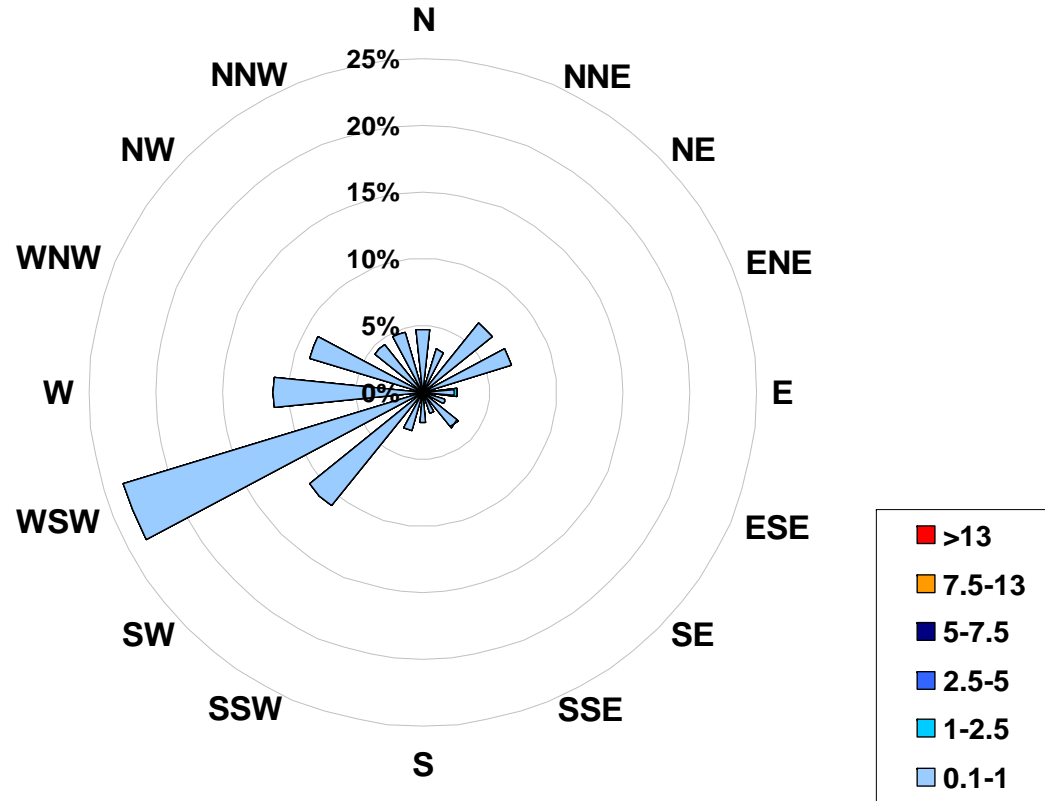


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	< 1		675
1	to 2.5		2
2.5	to 5		0
5	to 7.5		0
7.5	to 13		0
	> 13		0
Total Non-Zero Values			677

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

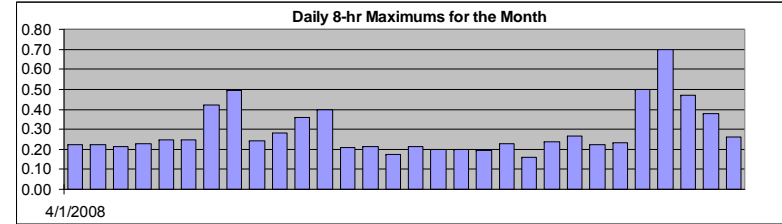
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.7 ppm 27-Apr 2:00 3:00



Percentile	99	95	75	50	25	5	1
	0.5	0.4	0.2	0.2	0.2	0.2	0.1

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		23:00 0:00	
1-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
2-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
3-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
4-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
5-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
6-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
7-Apr-08	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.42
8-Apr-08	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.49
9-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
10-Apr-08	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	N	N	N	N	N	N	N	N	N	N	N	N	0.1	0.1	0.28	
11-Apr-08	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.36	
12-Apr-08	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40	
13-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	
14-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	
15-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	
16-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	
17-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
18-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
19-Apr-08	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
20-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	
21-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	
22-Apr-08	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	
23-Apr-08	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.27	
24-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	
25-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	
26-Apr-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.50	
27-Apr-08	0.6	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.70	
28-Apr-08	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.47	
29-Apr-08	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.38	
30-Apr-08	0.3	0.3	N	N	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	

Hourly Max	0.58	0.63	0.70	0.69	0.66	0.61	0.54	0.47	0.49	0.49	0.49	0.49	0.49	0.44	0.37	0.31	0.28	0.27	0.26	0.27	0.27	0.28	0.38	0.50
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PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

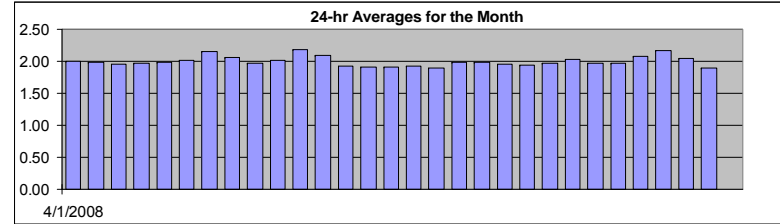
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr na ppm 24-hr na ppm
 Summary

Maximum 1-hr Average:	2.7	ppm	26-Apr	23:00 0:00
Maximum 24-hr Value:	2.2	ppm	11-Apr	



AIC Time:	31 hrs	Operational Time:	678 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.3	2.0	2.0	1.9	1.9	1.8	2.0 ppm	2.0 ppm

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.05
2-Apr-08	2.0	2.0	2.0	A	2.0	2.1	2.2	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.98	2.22
3-Apr-08	1.9	1.9	A	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.95	2.01
4-Apr-08	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.97	2.09
5-Apr-08	A	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	A	1.99	2.06	
6-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.1	2.01	2.11	
7-Apr-08	2.2	2.2	2.3	2.4	2.4	2.5	2.6	2.4	2.5	2.4	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	2.2	2.16	2.55	
8-Apr-08	2.2	2.2	2.1	2.0	2.1	2.1	2.4	2.6	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	2.05	2.57	
9-Apr-08	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.1	2.1	1.98	2.18	
10-Apr-08	2.0	2.1	2.1	2.1	2.3	A	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.01	2.29	
11-Apr-08	2.0	2.0	2.0	2.0	2.0	A	2.1	2.2	2.2	2.2	C	C	C	C	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.5	2.18	2.53		
12-Apr-08	2.3	2.6	2.4	2.5	2.2	A	2.5	2.3	2.5	2.3	2.1	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.08	2.56		
13-Apr-08	1.9	1.9	1.9	1.9	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.93	2.00		
14-Apr-08	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	1.99	
15-Apr-08	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90	1.92	
16-Apr-08	1.9	A	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	2.07	
17-Apr-08	A	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.89	1.93		
18-Apr-08	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.98	2.02		
19-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.99	2.03	
20-Apr-08	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	2.0	2.0	1.96	2.07	
21-Apr-08	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.94	1.99	
22-Apr-08	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	2.0	2.0	2.1	1.97	2.09	
23-Apr-08	2.2	2.1	2.2	2.2	2.3	2.4	2.1	2.0	2.0	1.9	2.0	1.9	1.9	A	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.03	2.44	
24-Apr-08	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.97	2.01	
25-Apr-08	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.96	2.10	
26-Apr-08	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.5	2.7	2.7	2.08	2.72	
27-Apr-08	2.7	2.5	A	2.2	2.3	2.5	2.7	2.6	2.4	2.3	2.3	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.16	2.70	
28-Apr-08	1.9	A	2.1	2.3	2.3	2.4	2.5	2.4	2.3	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.05	2.47	
29-Apr-08	A	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.1	1.9	1.9	1.9	1.8	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.89	2.15	
30-Apr-08	1.9	P	P	P	P	P	P	P	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	N	2.02	
Hourly Avg	2.02	2.03	2.01	2.03	2.05	2.07	2.11	2.08	2.05	2.01	1.97	1.96	1.95	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.97	1.99	2.00	2.01			
Hourly Max	2.66	2.56	2.43	2.48	2.36	2.51	2.70	2.60	2.48	2.43	2.26	2.30	2.13	2.07	2.25	2.30	2.22	2.18	2.16	2.15	2.22	2.47	2.65	2.72				

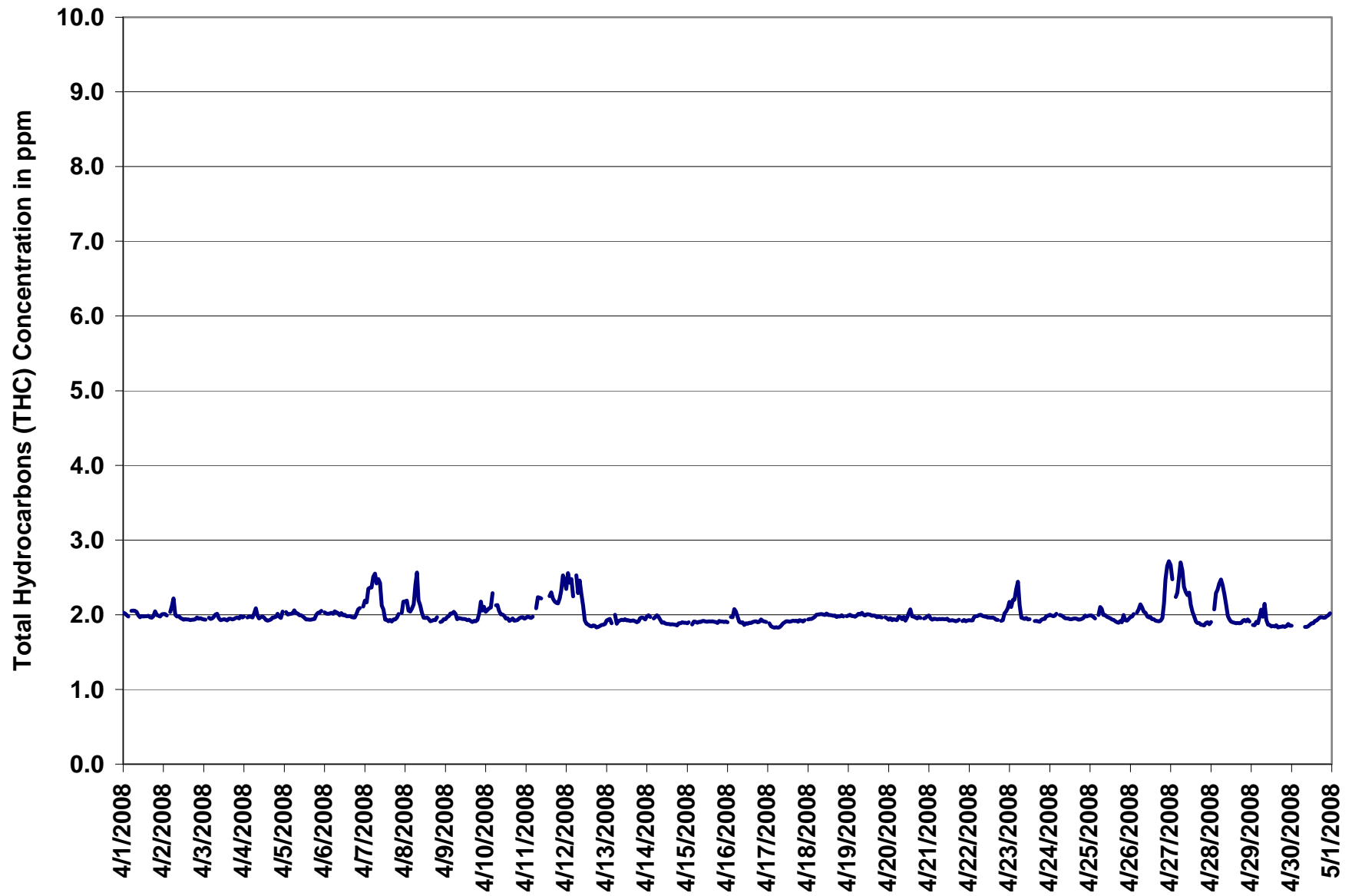


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

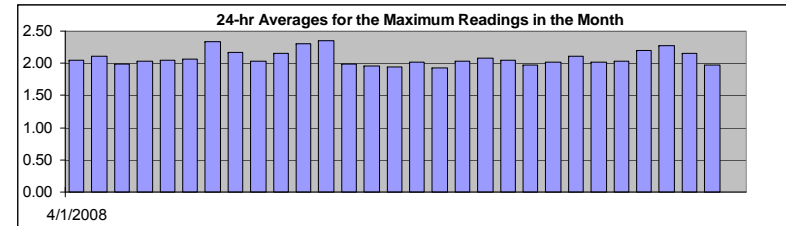
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	3.7	ppm	12-Apr	1:00 2:00
Maximum 24-hr Value:	2.4	ppm	12-Apr	



AIC Time:	31 hrs	Operational Time:	678 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	2.6	2.1	2.0	2.0	1.9	1.9	2.1 ppm	2.0 ppm

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.04	2.20
2-Apr-08	2.0	2.0	2.1	A	2.1	3.0	3.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.10	3.43
3-Apr-08	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.15
4-Apr-08	2.0	A	2.0	2.1	2.0	2.0	2.2	2.4	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.03	2.36
5-Apr-08	A	2.1	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	A	2.05	2.17
6-Apr-08	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	A	2.2	A	2.06	2.20
7-Apr-08	2.3	2.2	2.7	2.7	2.9	2.7	2.8	2.8	2.7	2.9	2.2	2.2	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	A	2.3	2.3	2.34	2.90
8-Apr-08	2.3	2.3	2.2	2.2	2.4	2.6	2.6	2.8	2.3	2.3	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.1	2.0	A	1.9	1.9	2.0	2.16	2.84
9-Apr-08	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.1	2.5	2.2	2.2	2.03	2.50
10-Apr-08	2.1	2.1	2.1	2.4	3.3	A	2.4	2.4	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.15	3.26
11-Apr-08	2.0	2.0	2.0	2.0	2.0	A	2.2	2.5	2.4	2.3	C	C	C	C	2.3	2.8	2.4	2.2	2.2	2.2	2.3	2.6	2.7	2.9	2.31	2.93
12-Apr-08	3.0	3.7	3.2	3.0	2.5	A	3.1	2.6	2.8	2.7	2.4	2.0	1.9	1.9	1.9	1.9	2.0	2.1	1.9	1.9	1.9	1.9	1.9	2.0	2.35	3.68
13-Apr-08	2.1	2.0	2.1	1.9	A	2.1	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.2	2.2	1.99	2.18
14-Apr-08	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.05
15-Apr-08	1.9	1.9	A	1.9	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.94	1.96
16-Apr-08	1.9	A	2.1	2.1	2.5	2.2	2.2	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.01	2.52
17-Apr-08	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	A	1.93	2.01
18-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.03	2.14
19-Apr-08	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.0	2.9	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.08	2.94
20-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.05	2.38
21-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	A	2.0	2.0	1.9	2.0	1.97	2.04
22-Apr-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	2.0	2.3	2.1	2.2	2.02	2.25
23-Apr-08	2.3	2.2	2.2	2.3	2.4	2.6	2.5	2.0	2.0	2.0	2.1	2.0	2.0	A	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.11	2.57
24-Apr-08	2.0	2.0	2.0	2.0	2.1	A	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.08
25-Apr-08	2.0	2.0	2.0	2.0	A	2.1	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	2.0	1.9	2.3	2.0	2.0	2.0	2.03	2.34
26-Apr-08	2.0	2.0	2.1	A	2.1	2.2	3.0	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.3	2.9	2.9	2.9	2.20	3.01
27-Apr-08	2.8	2.8	A	2.3	2.4	2.7	2.9	2.8	2.5	2.5	2.4	2.4	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.27	2.87
28-Apr-08	1.9	A	2.2	2.5	2.6	2.6	2.9	2.7	2.4	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.1	2.16	2.90
29-Apr-08	A	2.0	1.9	2.0	1.9	2.2	2.2	2.0	2.5	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.98	2.48
30-Apr-08	1.9	P	P	P	P	P	P	P	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	N	2.07
Hourly Avg	2.11	2.13	2.11	2.13	2.20	2.21	2.32	2.20	2.14	2.11	2.04	2.06	1.99	1.99	1.99	2.00	1.98	1.98	1.99	1.99	2.03	2.07	2.07	2.11		
Hourly Max	3.03	3.68	3.21	2.96	3.26	3.02	3.43	2.84	2.78	2.90	2.36	2.94	2.21	2.15	2.28	2.79	2.44	2.22	2.19	2.20	2.34	2.88	2.92	2.94		

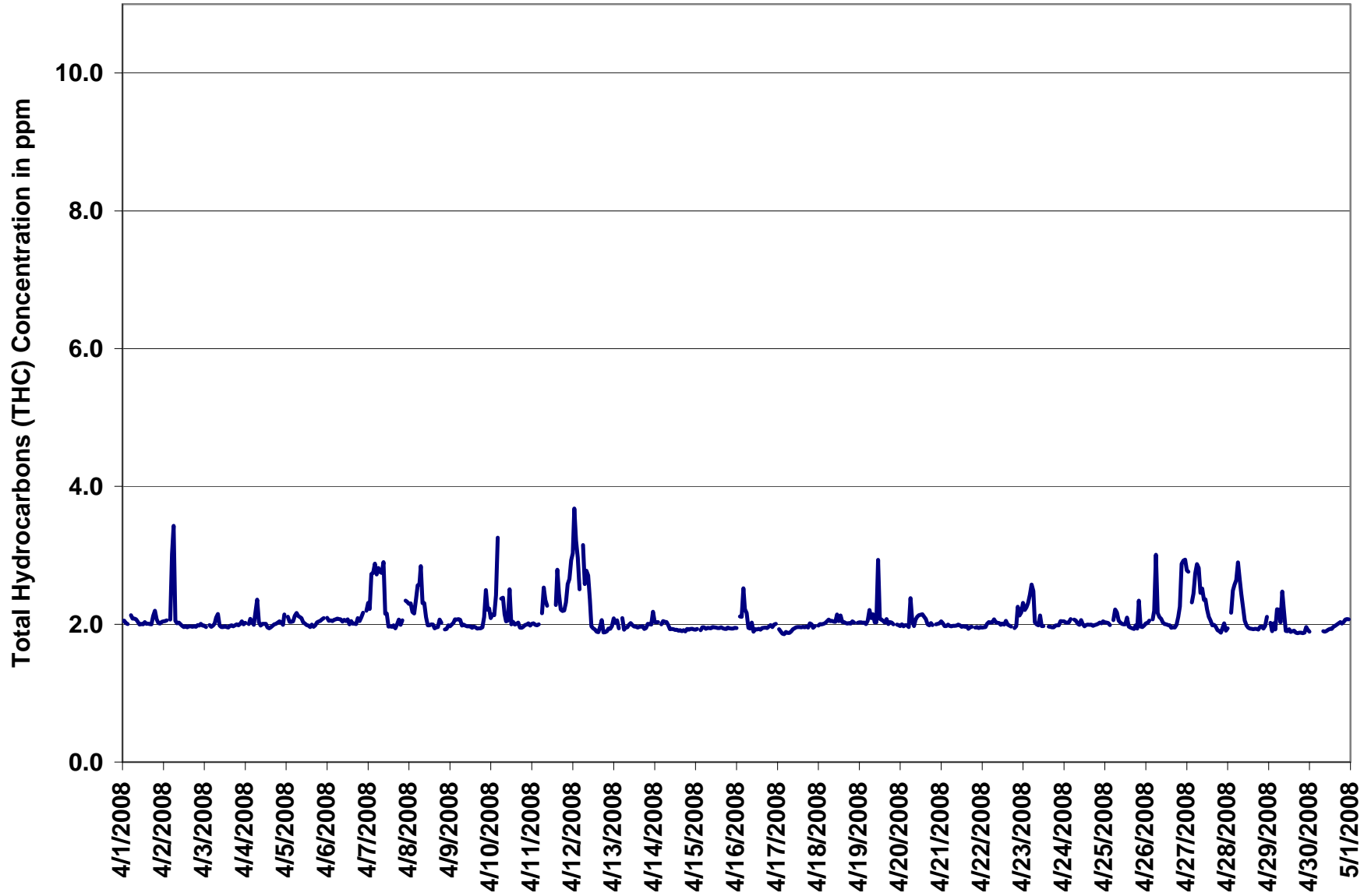
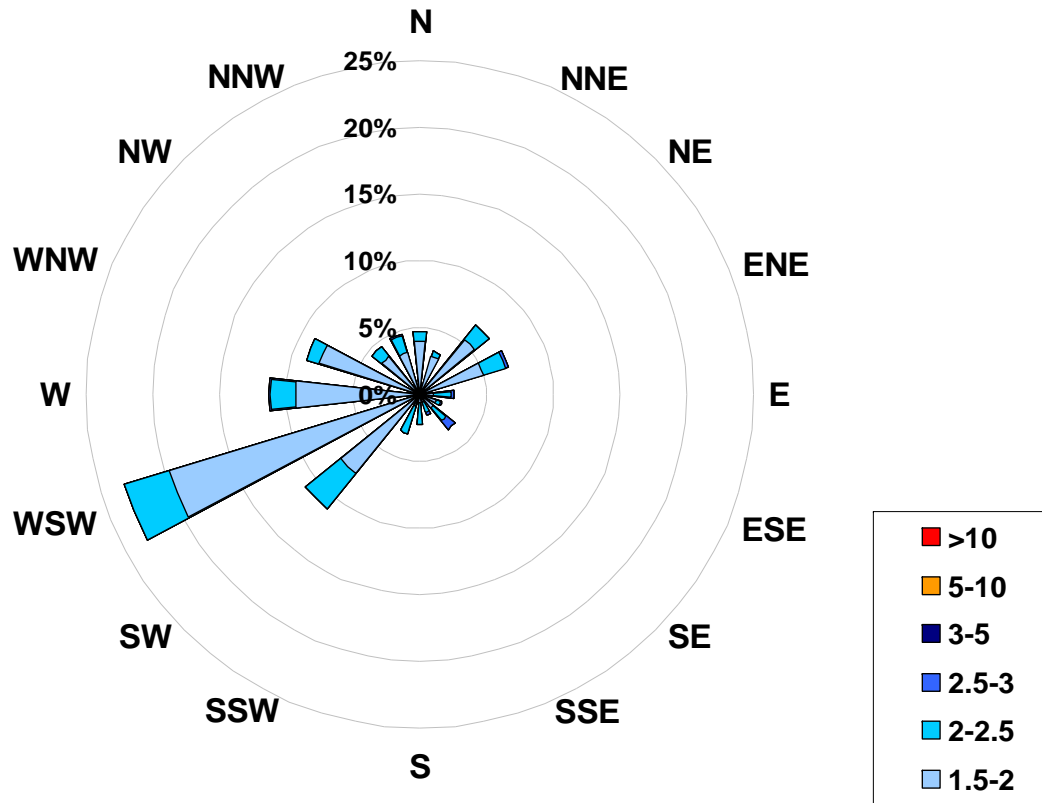


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for April 2008**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	502
2	to	2.5	162
2.5	to	3	12
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			678

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

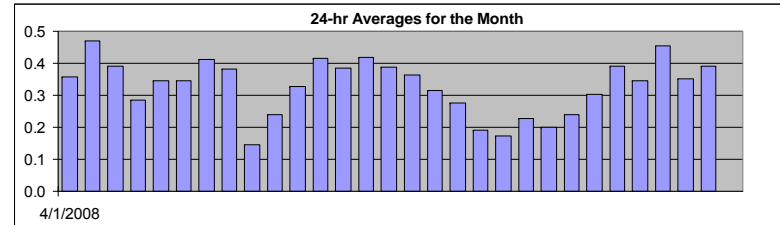
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb
 Summary

Maximum 1-hr Average:	1.0	ppb	15-Apr	4:00 5:00
Maximum 24-hr Value:	0.5	ppb	2-Apr	



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	0.4	0.3	0.3	0.2	0.0	0.3 ppb	0.3 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
1-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
2-Apr-08	0	0	0	A	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5
3-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
4-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
5-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
6-Apr-08	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
7-Apr-08	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.9
8-Apr-08	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.9
9-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
10-Apr-08	0	0	0	0	0	A	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
11-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6
12-Apr-08	0	0	1	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.7
14-Apr-08	0	0	0	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
15-Apr-08	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
16-Apr-08	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4	0.9
17-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.4
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.3
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.3
21-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.3
22-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.3
23-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
24-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
25-Apr-08	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
26-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.8
27-Apr-08	1	1	A	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.7
28-Apr-08	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
29-Apr-08	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
30-Apr-08	0	P	P	P	P	P	P	P	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	N	1.0
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4			
Hourly Max	0.7	0.7	0.5	0.5	1.0	0.7	0.9	1.0	0.9	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.9	0.7	0.9	1.0			

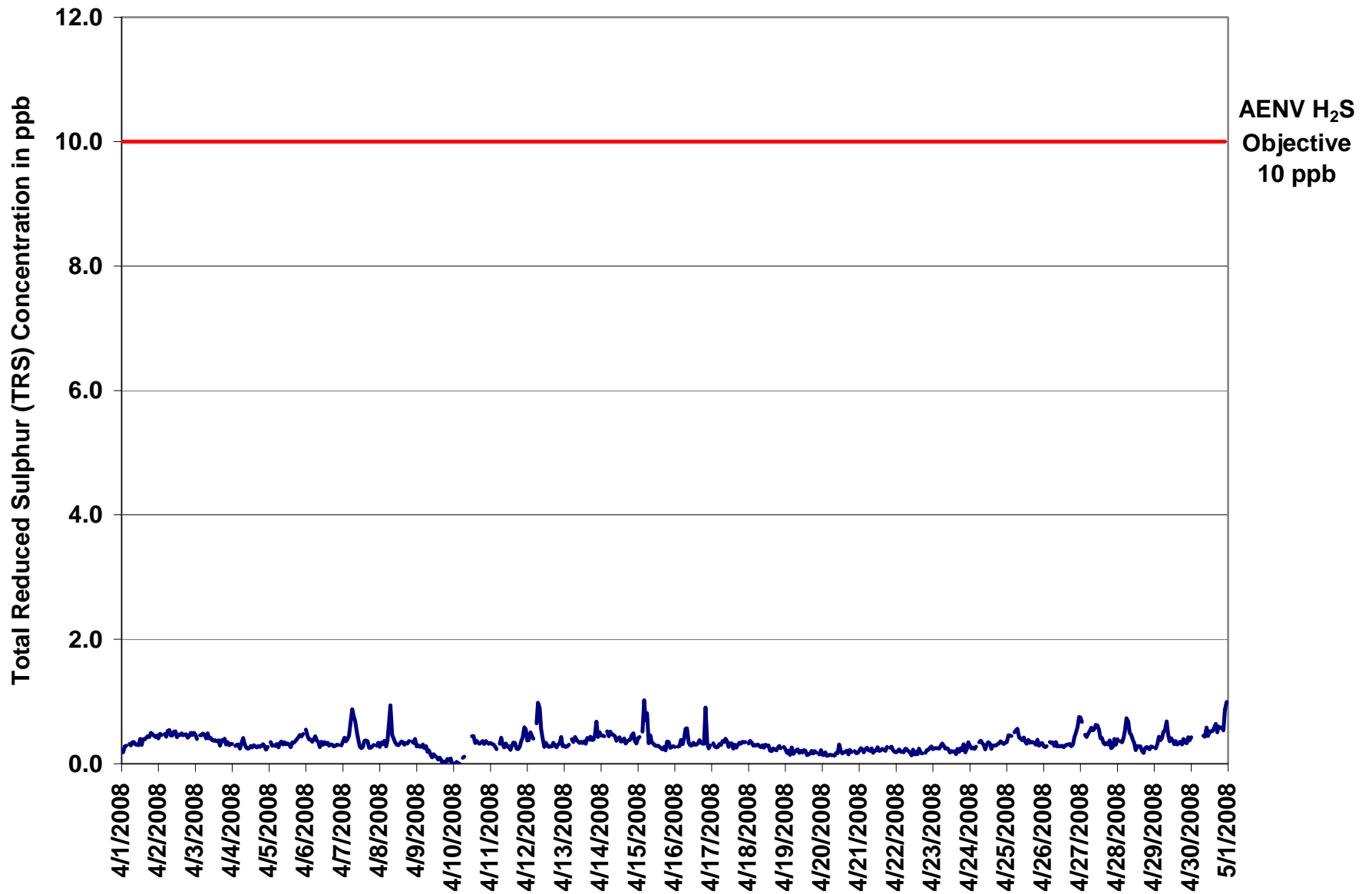


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

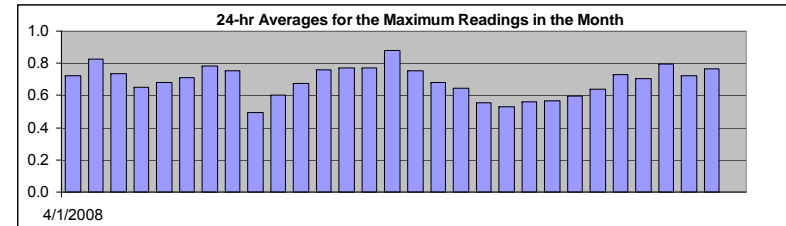
Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	2.1	ppb	15-Apr	4:00 5:00
Maximum 24-hr Value:	0.9	ppb	15-Apr	

AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.4	1.0	0.8	0.7	0.6	0.5	0.4	0.7 ppb	0.7 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
2-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
3-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
4-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
5-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9
6-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.9
7-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.4
8-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.5
9-Apr-08	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0.7
10-Apr-08	0	0	0	0	0	A	1	0	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
11-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.7	0.9
12-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
13-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.8	1.5
14-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
15-Apr-08	1	1	A	1	2	2	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.9	2.1
16-Apr-08	1	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0.8	1.7
17-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8
18-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.8
19-Apr-08	1	0	1	1	1	1	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	A	0	1	0.6	0.7
20-Apr-08	0	1	1	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	0	A	0	1	1	0.5	0.7
21-Apr-08	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	0.7
22-Apr-08	1	1	1	0	1	1	1	1	1	1	0	1	0	1	0	1	1	1	A	0	1	1	1	1	0.6	0.7
23-Apr-08	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0.6	0.8
24-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
25-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
26-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
27-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
28-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0.7	1.3
29-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
30-Apr-08	1	P	P	P	P	P	P	P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	N	1.4
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.7	0.7	0.7		
Hourly Max	1.1	1.0	0.9	1.5	2.1	1.8	2.1	1.5	1.2	1.1	1.0	0.9	0.9	0.8	0.8	1.0	1.0	0.9	0.9	0.9	1.7	1.5	1.3	1.4		

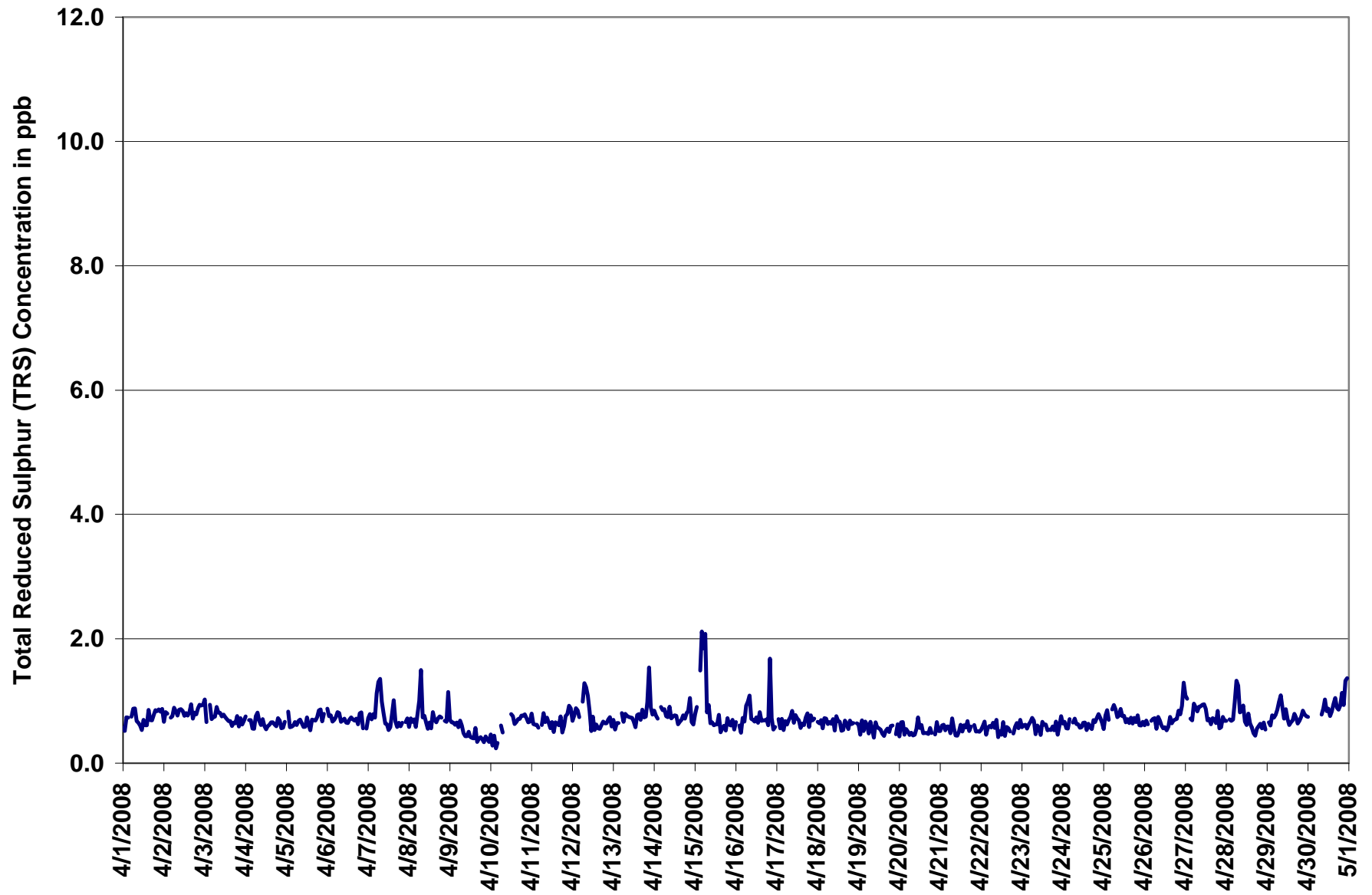
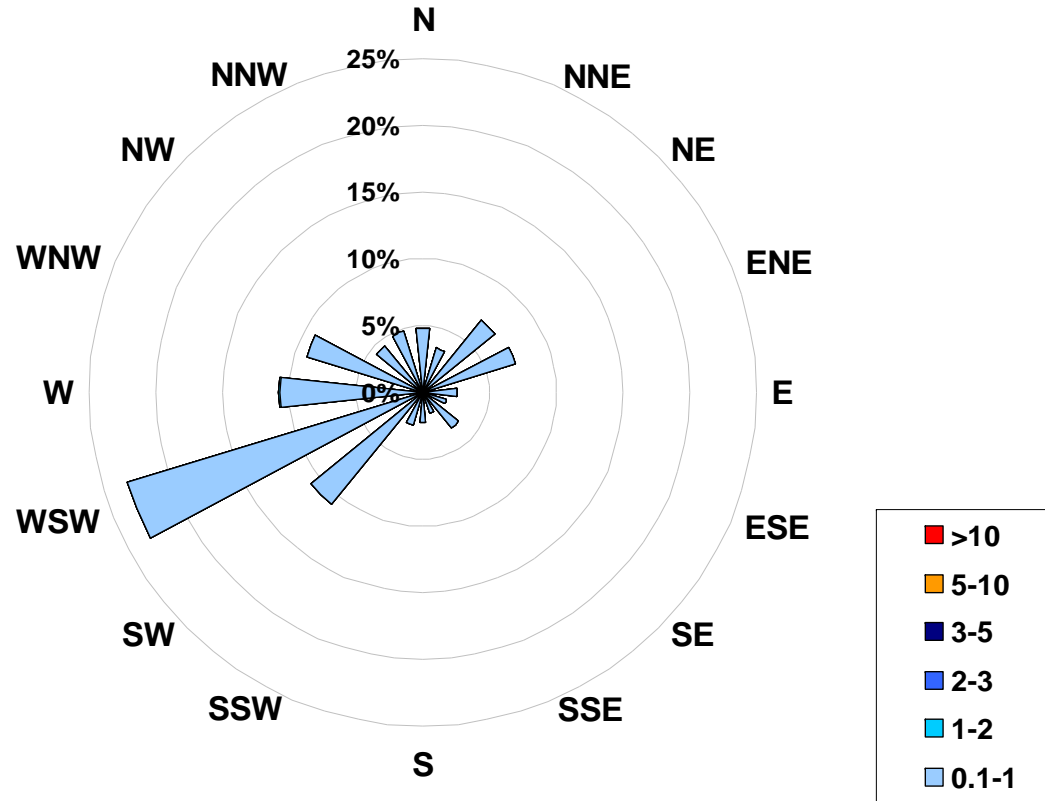


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for April 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	679
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			680

PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

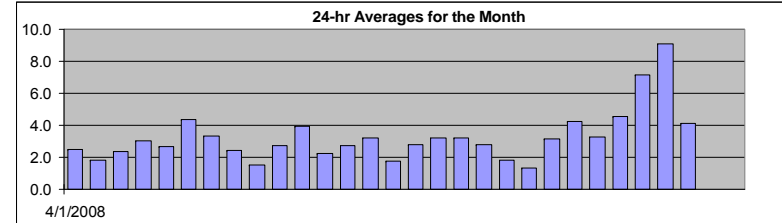
Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Draft Objective Limit: Alberta Environment: 1-hr - µg/m³ 24-hr 30 µg/m³
 Summary

Number of 24-hr Exceedances (draft):	0		
Maximum 1-hr Average:	29.4	µg/m ³	26-Apr 23:00 0:00
Maximum 24-hr Value:	9.1	µg/m ³	27-Apr

AIC Time:	0 hrs	Operational Time:	693 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	96.5%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.0	7.5	4.1	2.8	1.6	0.0	0.0	3.2 3 µg/m ³	3.0 µg/m ³



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	1	0	2	1	1	3	4	5	5	7	2	0	1	1	1	3	3	3	4	4	5	2	2	1	2.5	6.8
2-Apr-08	0	0	1	1	2	2	3	4	3	2	2	0	1	0	1	3	2	2	3	3	3	3	1	0	1.8	3.9
3-Apr-08	0	0	1	3	3	4	5	5	5	2	2	1	1	0	1	1	2	2	4	2	3	3	3	3	2.3	5.3
4-Apr-08	5	2	2	2	3	2	5	7	5	2	3	2	2	1	1	2	3	3	3	7	5	1	1	3	3.0	7.5
5-Apr-08	2	2	2	2	2	1	2	3	2	2	2	4	3	0	2	1	4	1	3	4	4	6	4	4	2.6	5.8
6-Apr-08	4	3	4	4	4	4	4	5	5	3	3	3	4	3	3	4	5	6	4	5	6	6	6	8	4.4	8.3
7-Apr-08	5	5	4	5	5	7	7	9	11	4	1	0	D	0	3	0	1	0	0	2	2	0	1	4	3.4	10.8
8-Apr-08	4	2	0	0	0	1	6	11	7	3	1	0	0	2	0	1	4	0	2	2	8	3	0	0	2.4	11.2
9-Apr-08	0	0	0	0	0	0	0	0	4	2	0	0	0	2	0	1	1	2	3	4	5	7	2	3	1.5	7.4
10-Apr-08	2	3	4	3	3	4	4	6	4	3	1	1	0	3	6	0	2	0	5	4	3	3	1	2	2.7	6.2
11-Apr-08	3	1	2	3	3	4	4	8	6	1	1	2	3	3	C	C	1	1	1	2	4	9	17	10	3.9	17.3
12-Apr-08	6	6	3	2	3	3	6	7	5	2	3	0	0	0	0	0	0	1	0	0	1	2	0	2	2.3	6.8
13-Apr-08	3	2	3	5	3	4	3	0	0	0	2	2	1	1	2	2	3	3	4	5	5	5	4	4	2.7	5.2
14-Apr-08	5	4	4	4	5	5	5	5	3	1	1	2	2	3	3	3	3	3	3	3	4	2	2	2	3.2	5.4
15-Apr-08	3	4	2	2	3	2	2	3	2	1	1	1	0	1	2	0	2	2	2	3	2	2	1	1	1.7	3.6
16-Apr-08	1	1	5	0	2	4	4	4	2	2	3	2	3	3	3	2	3	4	3	4	5	4	3	3	2.8	4.6
17-Apr-08	2	2	4	2	3	3	3	6	1	5	6	4	3	3	2	2	2	4	7	4	2	1	2	2	3.2	6.9
18-Apr-08	3	3	2	4	3	4	4	3	3	3	4	3	3	3	4	4	4	4	3	4	4	3	1	2	3.2	4.4
19-Apr-08	3	2	2	2	3	2	3	3	2	3	4	6	4	4	6	3	3	2	2	3	2	2	1	1	2.8	6.2
20-Apr-08	1	1	0	2	0	2	2	2	2	1	0	1	5	3	1	0	3	2	3	2	3	4	2	2	1.8	5.2
21-Apr-08	2	0	0	0	1	0	1	0	1	0	1	2	2	1	2	3	3	3	1	1	2	2	1	3	1.3	3.5
22-Apr-08	2	2	2	2	2	3	3	5	3	3	3	3	3	3	2	2	4	5	3	4	4	4	5	5	3.2	5.3
23-Apr-08	7	7	5	5	4	4	7	3	2	1	3	4	3	4	4	3	5	4	5	6	5	4	5	3	4.3	7.3
24-Apr-08	4	3	3	3	5	3	4	3	2	3	2	2	3	3	3	3	3	3	3	5	5	4	3	4	3.3	5.4
25-Apr-08	3	3	5	6	6	8	8	6	4	3	2	2	2	3	3	4	5	5	6	6	7	6	4	5	4.6	7.7
26-Apr-08	5	5	5	5	6	5	6	5	5	5	4	3	4	3	4	3	3	3	4	5	14	19	19	29	7.2	29.4
27-Apr-08	27	21	14	9	8	8	10	12	11	11	5	9	11	10	8	6	6	5	6	5	6	4	3	2	9.1	27.2
28-Apr-08	2	2	3	4	5	5	8	13	10	10	6	2	0	0	1	2	2	4	3	4	3	3	3	P	4.1	12.7
29-Apr-08	N	N	N	N	N	N	N	N	N	N	M	M	M	M	M	5	3	10	5	2	3	2	2	1	N	9.8
30-Apr-08	1	P	P	P	P	P	P	P	P	9	3	1	3	2	1	1	1	1	1	1	1	1	1	0	N	8.8
Hourly Avg	3.7	3.1	3.0	2.9	3.1	3.4	4.3	5.1	4.0	3.2	2.5	2.1	2.4	2.2	2.5	2.2	2.8	2.9	3.2	3.6	4.2	3.9	3.4	3.8		
Hourly Max	27.2	21.2	14.0	9.0	7.9	7.9	9.7	12.7	10.8	11.1	6.5	8.7	11.4	9.6	8.4	5.8	6.4	9.8	6.9	7.5	14.2	18.8	19.4	29.4		

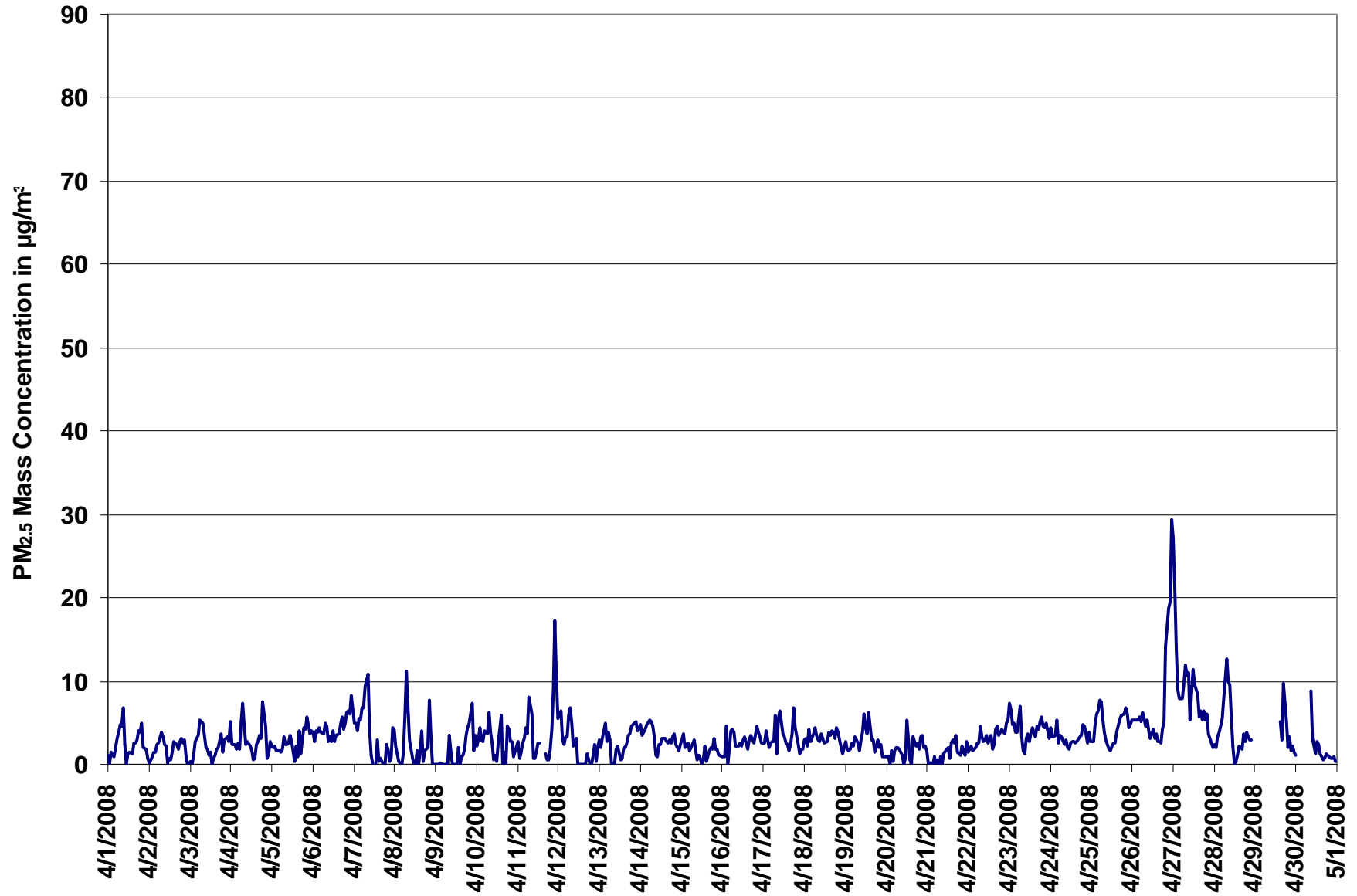


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

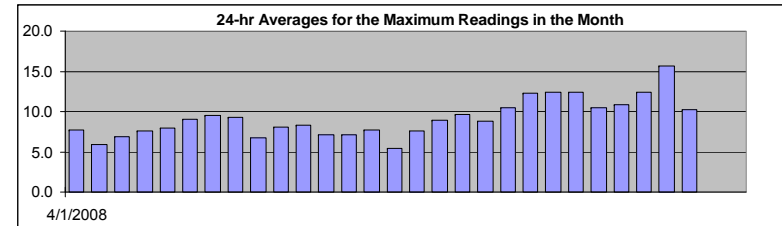
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	36.7	µg/m ³	27-Apr	0:00 1:00
Maximum 24-hr Value:	15.7	µg/m ³	27-Apr	



AIC Time:	0 hrs	Operational Time:	694 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	96.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	21.1	17.0	11.4	8.4	6.2	4.1	3.1	9.2	8 µg/m ³
									8.9 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-08	8	5	6	6	6	11	10	10	13	8	4	6	5	6	9	8	7	9	9	11	6	7	4	7.7	12.7		
2-Apr-08	5	4	5	5	6	6	6	7	7	6	5	4	4	4	6	11	6	5	5	12	7	6	5	3	5.9	12.4	
3-Apr-08	4	3	4	7	6	12	9	10	11	7	6	8	6	3	8	7	6	9	7	6	7	8	7	8	6.9	11.8	
4-Apr-08	9	6	7	6	7	6	11	13	10	8	6	6	5	5	5	6	8	6	8	15	9	5	6	9	7.6	14.8	
5-Apr-08	8	7	6	7	8	8	8	9	9	7	8	8	8	5	9	5	8	8	10	9	9	10	9	8	8.0	10.2	
6-Apr-08	9	7	9	9	9	8	8	13	9	6	7	7	6	5	6	7	16	9	7	9	10	10	13	16	9.0	16.5	
7-Apr-08	11	10	8	11	10	14	13	16	22	18	6	3	2	4	18	13	6	5	10	9	6	3	3	10	9.6	22.2	
8-Apr-08	9	6	5	5	5	4	13	18	13	10	5	4	14	16	8	9	14	14	7	6	18	12	4	5	9.3	17.7	
9-Apr-08	4	5	4	4	3	4	3	5	7	7	4	13	2	11	7	5	7	11	11	9	12	14	6	7	6.8	13.6	
10-Apr-08	5	9	10	7	12	9	8	10	8	6	4	4	5	14	12	7	16	9	9	6	7	6	6	5	8.1	16.0	
11-Apr-08	6	4	6	6	7	9	9	12	12	6	6	6	5	6	C	C	6	4	4	5	10	20	22	14	8.3	22.1	
12-Apr-08	16	14	9	6	6	7	10	10	8	7	8	4	4	5	6	4	4	7	4	6	7	8	5	7	7.1	15.9	
13-Apr-08	7	6	7	8	8	7	7	4	2	5	10	6	6	7	9	7	7	9	7	8	8	7	6	10	7.1	10.4	
14-Apr-08	10	10	11	10	11	11	11	9	9	5	4	6	7	8	8	7	7	7	6	6	6	5	5	6	7.7	11.1	
15-Apr-08	6	7	6	6	6	6	5	6	5	4	4	4	5	5	6	5	6	7	6	6	5	4	4	4	5.4	7.1	
16-Apr-08	4	4	16	7	11	13	13	7	6	5	7	6	7	7	7	6	6	8	6	7	8	8	7	7	7.5	16.4	
17-Apr-08	6	6	9	5	7	8	7	15	6	20	13	6	7	6	6	6	5	13	15	13	10	8	9	8	8.9	19.7	
18-Apr-08	12	9	10	10	9	10	10	10	9	7	9	8	9	11	13	12	11	11	10	12	8	8	6	7	9.6	13.2	
19-Apr-08	8	6	5	6	7	7	7	7	8	7	11	11	11	17	16	11	9	8	10	11	7	7	6	6	8.8	16.9	
20-Apr-08	7	9	7	8	7	9	9	8	9	14	3	8	18	11	8	10	12	13	15	16	14	16	12	11	10.5	17.8	
21-Apr-08	12	8	10	9	11	10	11	11	10	7	13	13	13	15	16	14	13	16	13	12	16	14	15	15	12.3	15.8	
22-Apr-08	12	11	13	14	11	11	11	13	14	16	15	17	13	9	7	5	9	12	10	9	14	16	14	21	12.4	20.6	
23-Apr-08	16	17	13	15	13	15	16	16	16	10	6	8	6	8	7	8	8	9	10	15	17	17	15	14	12.4	17.3	
24-Apr-08	14	13	15	16	17	12	16	12	10	8	6	4	6	6	6	6	6	6	7	11	14	14	13	13	10.5	17.2	
25-Apr-08	14	14	17	19	17	21	17	15	9	7	6	6	7	5	6	8	10	10	9	10	9	9	7	8	10.8	20.6	
26-Apr-08	8	11	11	12	12	12	11	9	9	9	9	6	9	9	8	9	8	9	11	14	18	25	26	34	12.5	33.8	
27-Apr-08	37	31	21	16	14	15	15	15	17	20	12	13	20	18	20	13	14	13	14	10	11	8	6	5	15.7	36.7	
28-Apr-08	6	7	10	14	14	12	15	18	17	18	11	9	7	7	9	9	11	10	6	8	6	5	5	P	10.3	18.1	
29-Apr-08	N	N	N	N	N	N	N	N	N	N	N	M	M	M	M	M	14	8	20	9	7	11	15	9	10	N	19.8
30-Apr-08	10	P	P	P	P	P	P	P	P	17	11	12	12	10	11	10	11	9	9	10	11	11	9	9	N	17.5	
Hourly Avg	9.7	8.9	9.2	9.0	9.3	9.9	10.3	11.0	10.1	9.6	7.8	7.3	7.9	8.4	9.1	8.4	8.9	9.4	8.8	9.5	10.1	10.1	9.0	9.8			
Hourly Max	36.7	30.8	21.0	18.9	17.2	20.6	16.8	17.8	22.2	20.1	14.7	17.2	20.1	17.7	20.2	14.0	16.5	19.8	14.7	15.5	17.7	24.6	26.3	33.8			

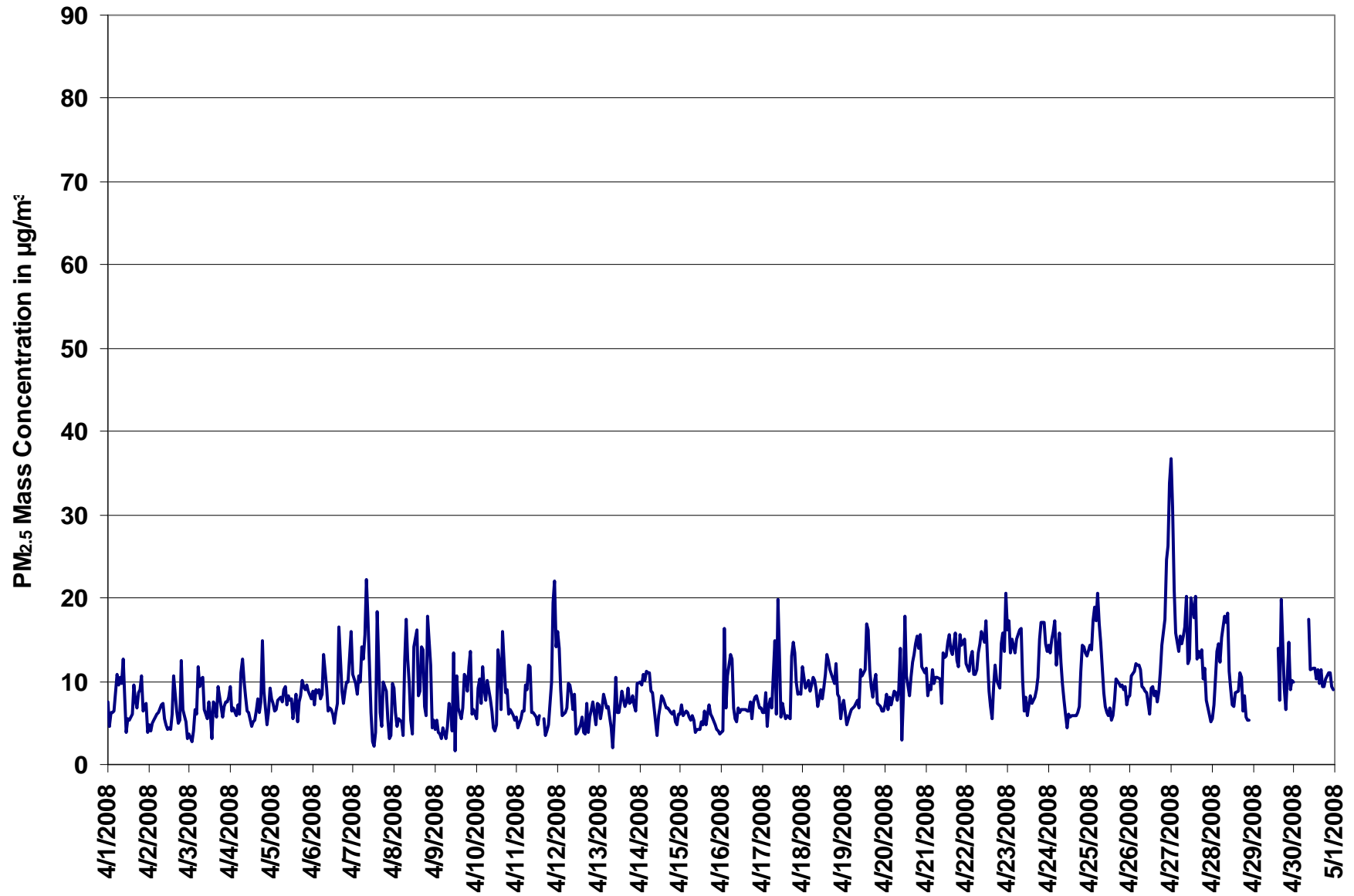
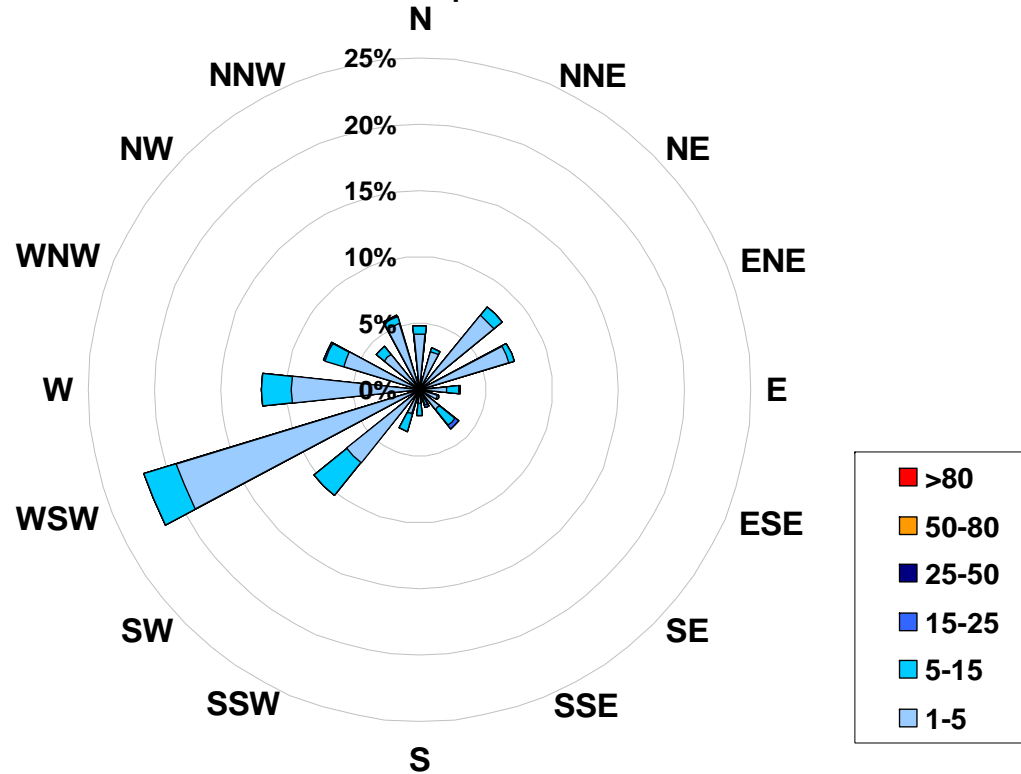


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	582
5	to	15	105
15	to	25	4
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			693

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

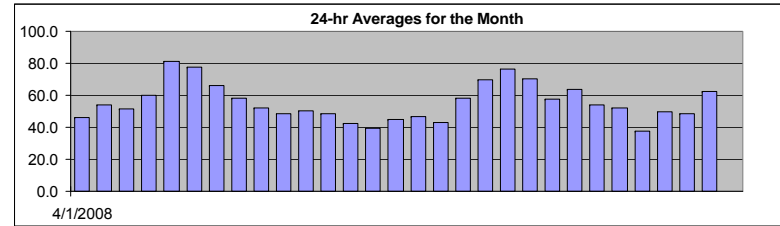
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	92.5 %	30-Apr	23:00 0:00
Maximum 24-hr Value:	81.2 %	5-Apr	



AIC Time:	0 hrs	Operational Time:	713 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	91.1	87.9	69.3	55.5	42.6	26.3	20.8	56.3 %	55.5 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	45	43	43	48	50	56	56	52	48	49	47	36	35	34	34	34	36	39	47	51	51	52	56	57	45.9	57.1
2-Apr-08	57	58	62	66	67	69	71	66	59	55	49	45	42	40	40	40	41	42	45	50	53	56	57	57	53.7	70.7
3-Apr-08	56	57	56	58	58	60	62	62	56	52	49	46	45	43	39	39	40	42	46	48	52	55	58	61	51.6	62.2
4-Apr-08	65	66	67	67	67	68	71	61	57	51	48	47	48	46	48	49	48	49	50	65	75	74	75	82	60.2	81.5
5-Apr-08	85	88	89	90	90	91	91	91	91	89	87	85	79	69	66	58	62	66	67	76	81	84	85	87	81.2	91.1
6-Apr-08	87	87	87	88	88	89	88	88	87	84	81	76	73	68	63	59	60	63	64	69	74	75	79	83	77.5	89.1
7-Apr-08	87	89	90	91	92	92	92	91	90	83	66	55	43	37	45	49	50	48	45	46	51	50	54	57	66.3	91.7
8-Apr-08	63	68	73	74	73	75	78	70	59	54	45	37	32	34	34	35	41	43	48	52	59	83	87	88	58.5	88.2
9-Apr-08	87	88	88	88	85	79	72	62	55	51	40	34	29	32	26	26	25	27	31	39	44	49	44	45	52.0	88.5
10-Apr-08	48	54	62	64	66	68	65	60	51	47	40	36	33	34	41	36	38	29	34	42	47	51	55	58	48.4	68.2
11-Apr-08	62	62	61	62	64	67	60	61	54	43	40	37	38	36	36	34	36	38	40	46	54	58	62	59	50.5	66.6
12-Apr-08	63	66	65	68	67	66	70	70	71	62	48	40	37	34	32	31	31	30	30	33	35	38	38	42	48.7	71.0
13-Apr-08	42	43	44	55	68	72	71	60	52	39	44	43	40	33	28	25	22	21	23	29	37	41	45	46	42.7	72.2
14-Apr-08	49	52	56	56	59	59	57	51	43	34	31	27	26	24	24	25	26	27	29	33	36	38	40	40	39.4	59.1
15-Apr-08	44	48	53	56	60	60	61	59	56	51	44	39	34	31	33	31	32	32	33	37	38	44	48	48	44.7	60.6
16-Apr-08	48	50	52	54	56	60	59	59	53	46	42	39	39	39	39	37	38	38	40	43	46	47	48	49	46.7	59.5
17-Apr-08	49	45	42	44	51	55	59	62	58	45	29	24	23	23	21	20	20	25	46	55	59	63	63	58	43.3	62.9
18-Apr-08	55	57	60	59	61	58	59	60	57	55	55	53	53	54	50	50	50	56	58	68	71	68	64	63	58.1	71.2
19-Apr-08	66	65	66	67	71	73	73	73	68	63	61	61	65	65	61	67	68	73	73	77	78	77	79	80	69.6	79.6
20-Apr-08	80	80	77	79	79	79	79	76	74	72	71	68	64	64	71	70	71	76	81	84	85	84	86	87	76.5	86.7
21-Apr-08	87	86	86	84	85	85	85	84	82	80	78	74	71	69	58	67	66	69	63	52	45	46	44	42	70.4	86.7
22-Apr-08	41	39	42	42	45	47	47	51	61	60	53	49	46	53	50	47	53	65	79	80	83	85	85	85	57.9	85.5
23-Apr-08	87	87	87	86	85	83	79	69	60	55	52	48	45	46	47	47	49	50	51	57	61	63	66	66	63.5	87.5
24-Apr-08	63	63	65	64	66	66	66	64	57	53	50	44	43	44	43	43	42	43	44	48	54	57	58	57	53.9	65.9
25-Apr-08	59	62	66	78	84	86	86	73	70	63	50	39	34	31	28	28	28	31	33	39	44	46	44	42	51.8	86.1
26-Apr-08	45	51	52	54	56	59	54	46	39	34	30	26	25	24	22	20	19	19	21	24	33	42	49	57	37.4	59.1
27-Apr-08	61	72	77	77	83	82	75	59	45	43	36	33	32	26	20	22	26	25	32	43	50	56	55	59	49.5	82.8
28-Apr-08	70	77	82	85	87	86	75	63	52	45	38	34	30	26	22	23	22	28	29	31	35	37	42	44	48.5	87.1
29-Apr-08	53	61	67	73	75	82	82	82	71	55	47	45	37	29	34	36	34	63	66	71	77	81	85	88	62.3	88.2
30-Apr-08	90	P	P	P	P	P	P	P	90	88	85	85	87	88	89	91	91	90	88	87	87	91	92	93	N	92.5
Hourly Avg	63.2	64.2	66.1	68.1	70.2	71.5	70.5	66.4	62.3	56.6	51.2	46.9	44.3	42.5	41.5	41.3	42.2	44.9	47.9	52.6	56.5	59.7	61.5	62.7		
Hourly Max	90.1	89.4	90.1	91.2	91.6	91.7	91.7	91.4	91.0	88.6	87.3	85.0	86.5	87.9	89.0	90.6	90.9	89.6	88.3	87.1	87.5	90.8	91.9	92.5		

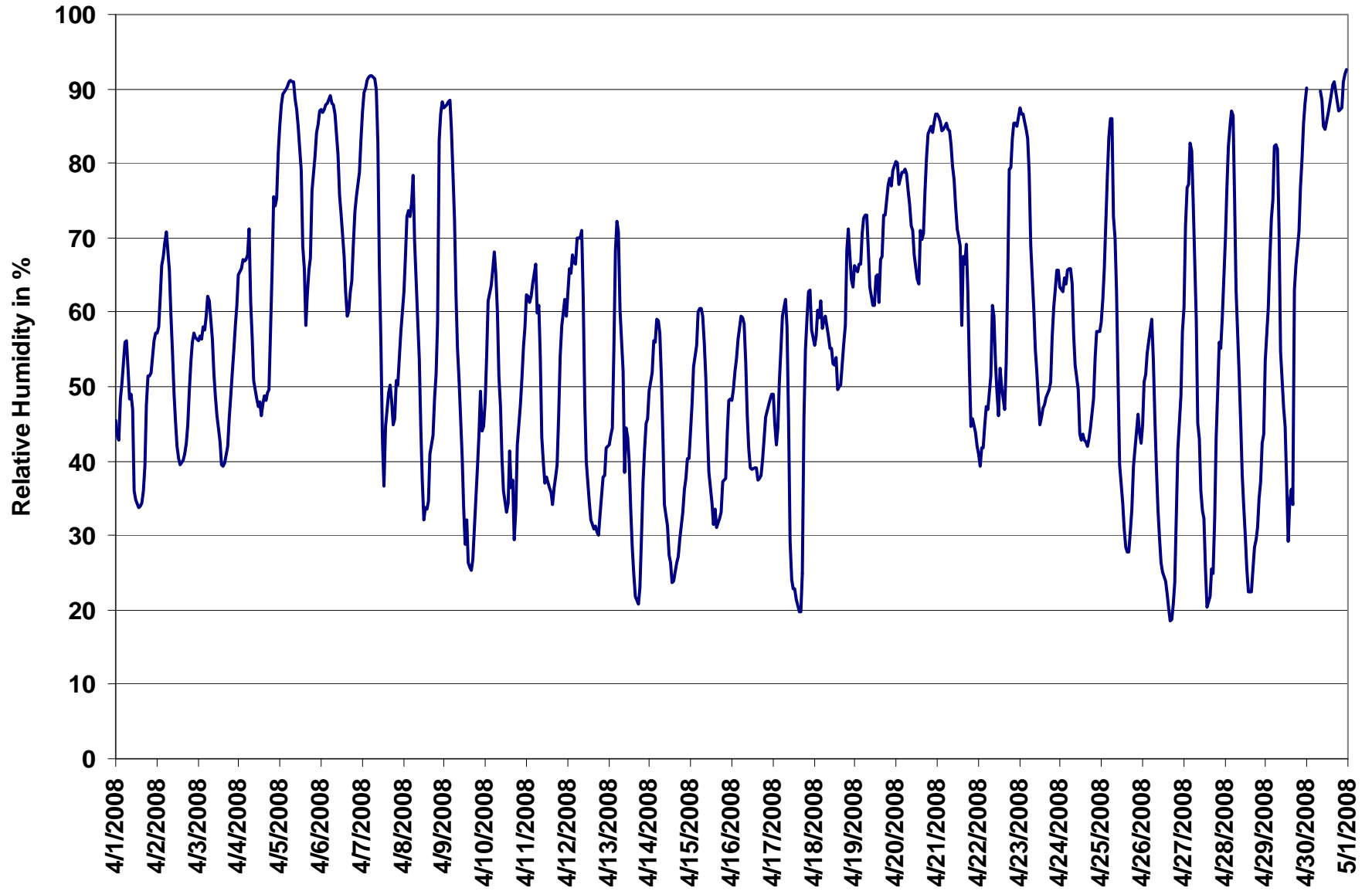


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

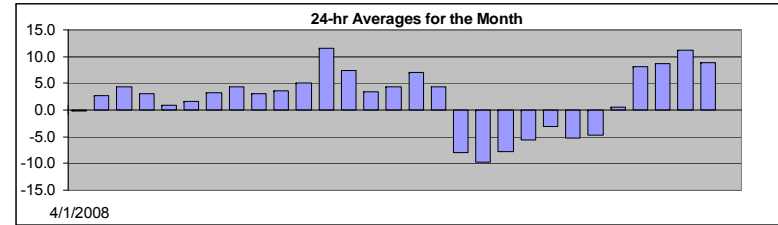
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	19.4	°C	12-Apr	17:00 18:00
Maximum 24-hr Value:	11.5	°C	12-Apr	



AIC Time:	0 hrs	Operational Time:	713 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.8	14.8	6.9	2.2	-2.2	-8.7	-11.9	2.2 °C	2.2 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	-3	-3	-3	-4	-5	-6	-6	-4	-2	0	1	2	3	4	4	5	4	4	3	1	1	0	-1	-1	-0.3	5.2	
2-Apr-08	-2	-2	-2	-3	-3	-3	-3	-1	1	3	5	6	7	7	8	8	8	7	7	5	3	3	2	2	2.6	8.1	
3-Apr-08	2	2	2	2	3	3	2	2	3	4	5	7	7	8	9	9	8	8	7	5	4	3	1	0	4.4	8.9	
4-Apr-08	-1	-1	-2	-2	-2	-2	-3	1	3	5	6	7	7	8	7	7	7	7	6	4	2	2	2	1	3.0	8.3	
5-Apr-08	0	-1	-1	-1	-2	-2	-2	-2	-1	0	0	0	3	5	5	7	6	5	4	2	1	0	-1	-1	0.9	6.8	
6-Apr-08	-1	-1	-1	-1	-1	-1	-1	-1	0	0	1	2	3	5	6	7	6	5	5	3	2	2	1	1	1.7	6.5	
7-Apr-08	-1	-1	-2	-3	-3	-3	-3	-2	0	2	6	9	10	10	9	8	8	8	8	6	5	4	2	1	3.3	10.3	
8-Apr-08	0	0	-1	-1	-1	-2	-3	0	4	6	9	10	12	11	11	10	9	9	8	7	5	2	1	1	4.4	11.6	
9-Apr-08	0	0	0	-1	0	0	0	1	2	3	5	6	8	6	7	7	7	7	6	4	2	1	1	0	3.0	7.8	
10-Apr-08	0	-1	-2	-2	-2	-3	-2	0	3	5	7	8	9	8	8	9	8	8	8	6	4	4	2	2	3.5	9.4	
11-Apr-08	1	1	1	1	0	-1	1	1	3	6	7	8	8	9	9	10	10	10	10	8	6	4	3	4	5.0	10.2	
12-Apr-08	4	3	3	3	3	3	3	4	5	8	13	16	17	18	19	19	19	19	19	18	16	15	15	13	11.5	19.4	
13-Apr-08	13	12	11	8	5	5	6	5	7	7	7	7	8	9	10	10	11	11	10	7	4	3	2	2	7.4	12.5	
14-Apr-08	1	0	-1	-1	-2	-2	-1	1	4	5	6	7	7	8	8	8	8	7	7	6	4	3	3	2	3.5	7.9	
15-Apr-08	3	2	2	1	1	1	1	1	2	3	5	6	7	8	8	8	8	8	8	6	6	4	3	2	4.4	8.4	
16-Apr-08	3	2	1	0	0	0	2	4	6	9	10	11	11	11	11	12	12	12	11	10	9	8	7	8	7.1	11.9	
17-Apr-08	8	8	7	7	6	5	4	5	4	4	4	5	6	6	6	6	6	5	4	2	1	0	-1	-2	4.3	7.8	
18-Apr-08	-2	-4	-6	-6	-7	-8	-8	-9	-9	-8	-9	-8	-8	-8	-7	-7	-7	-7	-8	-8	-9	-10	-11	-11	-12	-7.9	-2.5
19-Apr-08	-12	-12	-12	-13	-13	-13	-13	-12	-11	-10	-9	-10	-9	-8	-7	-7	-7	-7	-8	-8	-8	-9	-9	-9	-9	-9.8	-7.1
20-Apr-08	-9	-9	-10	-10	-10	-10	-10	-10	-9	-7	-7	-6	-5	-6	-6	-6	-6	-6	-6	-7	-7	-7	-7	-7	-7	-7.7	-5.4
21-Apr-08	-7	-7	-7	-7	-8	-8	-8	-8	-8	-7	-7	-6	-6	-5	-4	-4	-4	-4	-4	-3	-3	-3	-4	-3	-5.7	-3.2	
22-Apr-08	-4	-4	-5	-6	-7	-9	-8	-7	-5	-3	-2	0	1	1	1	2	1	0	-1	-2	-3	-4	-5	-6	-3.1	2.2	
23-Apr-08	-7	-9	-10	-10	-11	-10	-8	-6	-5	-3	-2	-1	0	0	-1	-1	-2	-3	-3	-5	-6	-7	-7	-8	-5.3	-0.2	
24-Apr-08	-8	-7	-8	-8	-9	-9	-8	-7	-5	-4	-3	-2	-1	-1	-1	-1	-1	-1	-1	-2	-3	-4	-5	-5	-4.6	-0.9	
25-Apr-08	-5	-6	-6	-6	-6	-8	-8	-3	-3	-1	1	2	3	5	6	7	7	8	7	6	4	3	3	3	0.5	7.7	
26-Apr-08	2	0	-1	-1	-1	-2	0	4	7	9	11	12	14	15	16	17	17	17	16	15	11	8	5	4	8.1	17.1	
27-Apr-08	2	0	-1	-2	-2	-2	1	4	8	9	11	12	13	16	19	18	17	17	16	13	11	9	9	8	8.6	19.1	
28-Apr-08	4	3	2	1	0	0	3	7	11	13	16	17	18	19	19	19	19	19	17	17	16	14	13	11	11	11.2	19.1
29-Apr-08	10	9	7	6	5	3	3	4	7	12	13	13	15	16	16	15	14	10	9	8	6	5	4	3	8.9	16.0	
30-Apr-08	3	P	P	P	P	P	P	P	2	3	4	5	5	4	3	2	2	2	2	2	2	2	2	2	N	4.6	
Hourly Avg	-0.2	-0.9	-1.5	-2.0	-2.5	-2.9	-2.4	-1.0	0.9	2.4	3.8	4.8	5.7	6.3	6.6	6.8	6.5	6.1	5.4	4.0	2.7	1.7	1.0	0.5			
Hourly Max	12.5	11.7	11.0	8.5	5.7	4.9	5.7	6.9	10.6	13.3	15.9	16.9	18.0	18.5	19.1	19.0	19.1	19.4	19.2	17.6	16.1	14.8	14.5	13.0			

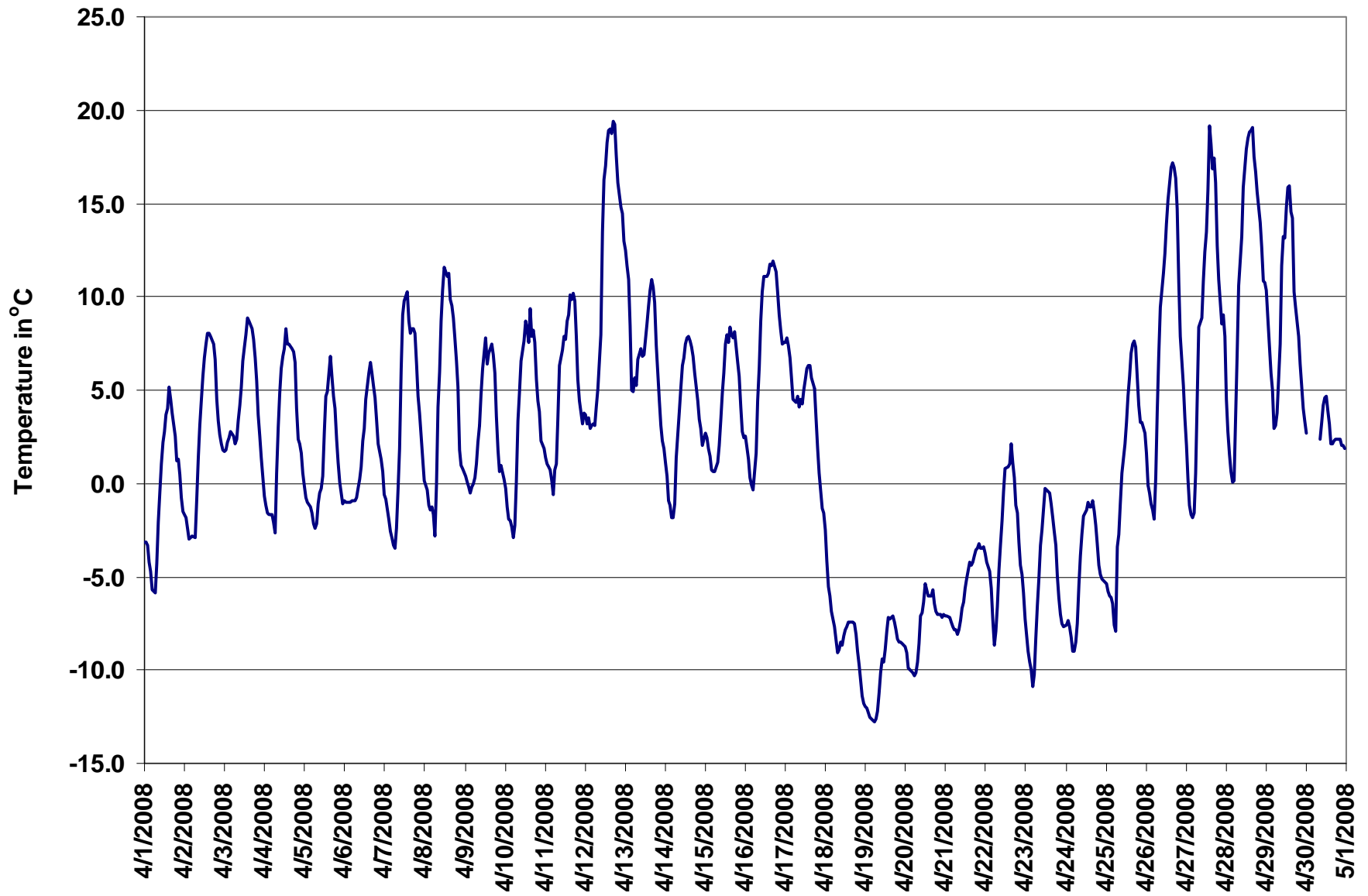


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirkker Solar Radiation Monthly Summary

Station: Henry Pirkker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

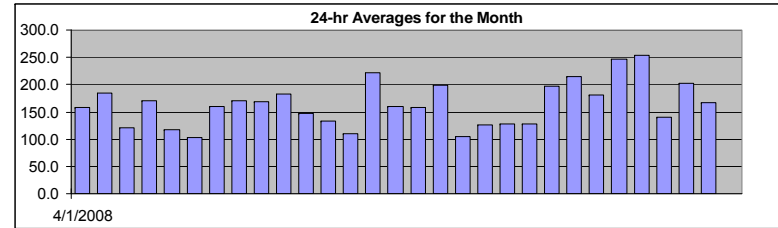
Solar Radiation (SR)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	707.7	W/m ²	26-Apr	12:00 13:00
Maximum 24-hr Value:	254.5	W/m ²	26-Apr	

AIC Time:	0 hrs	Operational Time:	713 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	657.9	573.4	305.1	52.9	0.0	0.0	0.0	161.3 W/m ²	52.9 W/m ²



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	0	0	0	0	0	0	9	67	162	228	347	455	536	547	429	501	315	128	55	7	0	0	0	0	157.7	546.6
2-Apr-08	0	0	0	0	0	0	10	110	237	357	466	523	583	582	540	396	306	193	99	9	0	0	0	0	183.8	582.7
3-Apr-08	0	0	0	0	0	0	6	39	90	177	295	364	368	369	467	307	226	116	61	9	0	0	0	0	120.6	467.4
4-Apr-08	0	0	0	0	0	0	16	120	250	384	490	572	615	594	322	254	197	170	82	8	0	0	0	0	169.8	614.6
5-Apr-08	0	0	0	0	0	0	4	18	53	95	145	252	490	491	354	482	226	149	49	6	0	0	0	0	117.3	490.8
6-Apr-08	0	0	0	0	0	0	12	34	92	133	174	194	212	332	414	428	232	128	58	10	0	0	0	0	102.2	427.9
7-Apr-08	0	0	0	0	0	0	21	116	153	212	483	568	627	633	200	316	242	173	72	11	1	0	0	0	159.5	633.2
8-Apr-08	0	0	0	0	0	1	26	135	272	408	515	582	637	458	402	167	209	177	78	12	2	0	0	0	170.0	637.3
9-Apr-08	0	0	0	0	0	1	14	83	160	302	516	586	658	402	305	345	334	229	110	17	1	0	0	0	169.3	658.1
10-Apr-08	0	0	0	0	0	2	17	122	268	408	518	600	618	466	314	401	271	213	139	23	1	0	0	0	182.5	617.5
11-Apr-08	0	0	0	0	0	2	29	68	186	400	468	471	290	314	296	357	232	256	131	19	1	0	0	0	146.7	471.3
12-Apr-08	0	0	0	0	0	2	19	42	73	241	429	533	458	349	352	250	128	205	113	18	1	0	0	0	133.9	533.5
13-Apr-08	0	0	0	0	0	1	24	94	152	95	121	97	242	237	327	389	401	267	141	33	1	0	0	0	109.3	400.7
14-Apr-08	0	0	0	0	0	2	43	153	299	427	533	614	653	655	584	522	408	278	143	29	1	0	0	0	222.7	655.2
15-Apr-08	0	0	0	0	0	2	32	72	149	305	439	423	599	486	341	422	213	181	148	18	2	0	0	0	159.6	598.7
16-Apr-08	0	0	0	0	0	2	41	73	170	406	550	503	401	310	337	318	229	282	142	34	2	0	0	0	158.3	550.4
17-Apr-08	0	0	0	0	0	2	49	168	298	401	504	625	668	640	514	401	218	163	88	25	2	0	0	0	198.5	668.1
18-Apr-08	0	0	0	0	0	2	25	93	174	238	208	276	296	347	307	230	144	105	53	11	1	0	0	0	104.7	346.9
19-Apr-08	0	0	0	0	0	2	29	75	166	286	350	328	330	423	397	241	201	130	66	20	2	0	0	0	126.9	422.5
20-Apr-08	0	0	0	0	0	3	31	87	146	225	315	398	412	381	314	296	230	152	73	19	3	0	0	0	128.5	411.9
21-Apr-08	0	0	0	0	0	2	20	55	150	302	367	380	413	392	342	234	165	133	72	22	2	0	0	0	127.2	413.3
22-Apr-08	0	0	0	0	0	6	93	173	268	348	466	629	604	544	451	531	281	188	128	27	3	0	0	0	197.5	629.1
23-Apr-08	0	0	0	0	0	6	57	160	321	465	548	574	634	619	511	453	378	253	150	33	3	0	0	0	215.2	633.5
24-Apr-08	0	0	0	0	0	7	46	129	306	423	500	512	584	479	354	301	353	204	108	40	3	0	0	0	181.2	583.8
25-Apr-08	0	0	0	0	0	8	54	215	355	472	602	664	701	691	641	558	448	310	175	43	5	0	0	0	247.6	701.0
26-Apr-08	0	0	0	0	0	10	96	204	373	502	605	675	708	704	656	573	462	313	166	56	4	0	0	0	254.5	707.7
27-Apr-08	0	0	0	0	0	14	85	189	325	226	320	271	323	293	564	271	137	212	105	43	6	0	0	0	141.0	564.3
28-Apr-08	0	0	0	0	0	13	123	176	341	480	561	538	557	546	465	407	315	175	114	43	5	0	0	0	202.4	560.6
29-Apr-08	0	0	0	0	0	7	36	82	289	486	534	454	533	501	527	227	163	109	51	15	3	0	0	0	167.3	533.7
30-Apr-08	0	P	P	P	P	P	P	P	90	129	129	83	121	85	82	69	48	28	14	6	2	0	0	0	N	129.3
Hourly Avg	0.0	0.0	0.0	0.0	0.0	3.4	36.8	108.7	212.2	318.7	416.6	458.1	495.6	462.4	403.7	355.0	257.0	187.4	99.5	22.2	1.9	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	0.0	0.0	13.6	122.8	214.9	372.7	502.4	605.4	675.0	707.7	703.8	656.3	573.4	462.3	313.5	175.4	55.6	5.5	0.0	0.0	0.0		

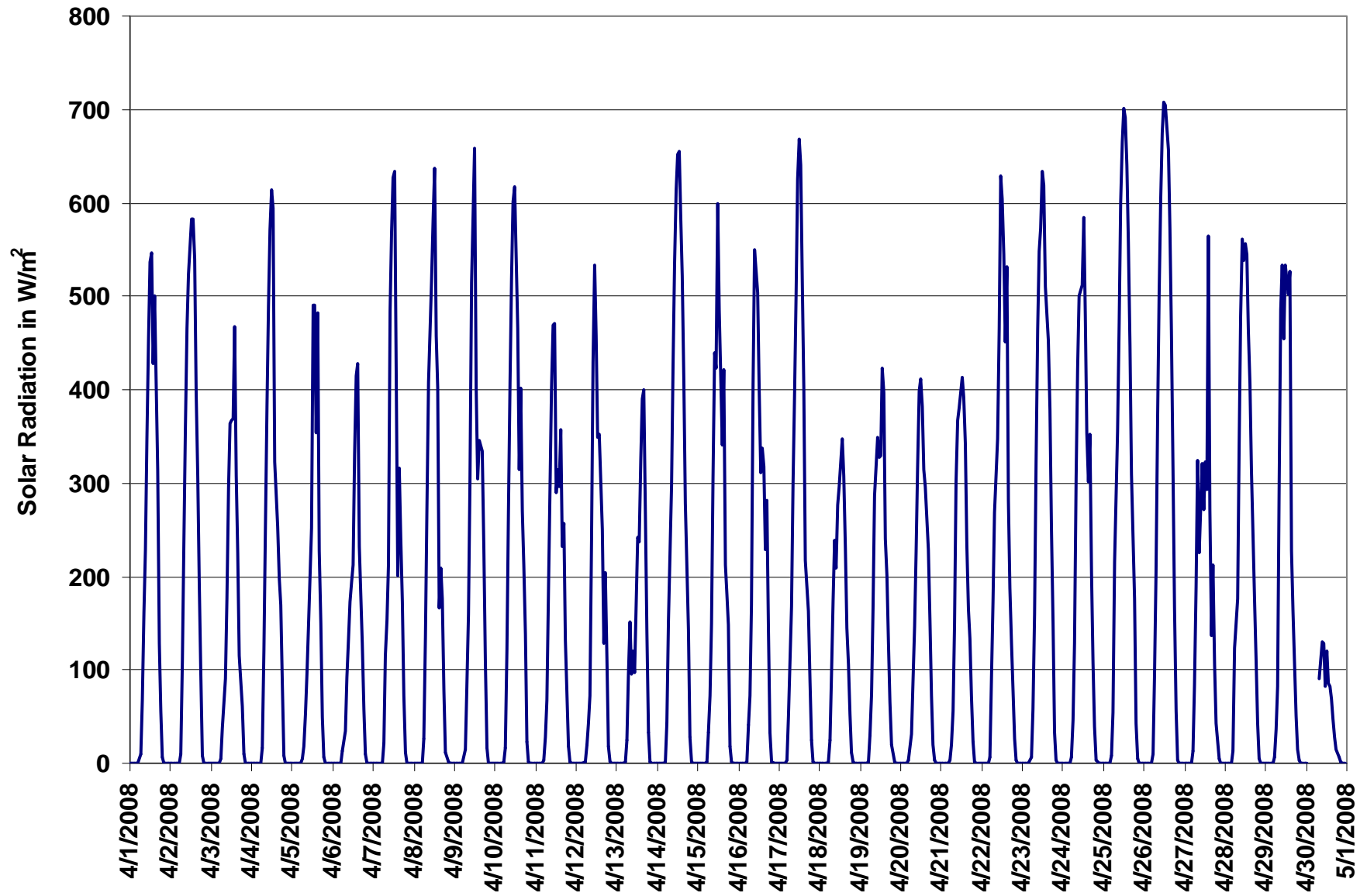


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

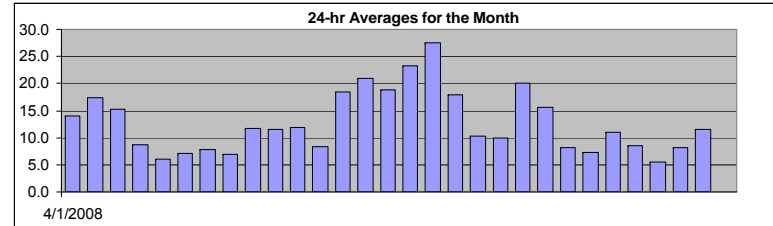
Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	48.7	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	27.5	km/hr	17-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	37.1	27.4	17.4	11.0	6.8	3.4	2.6	12.9 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	10	11	12	13	12	7	7	11	15	19	23	22	20	17	15	18	19	16	10	6	16	17	11	9		14.0	22.7
2-Apr-08	9	13	11	9	10	9	9	11	15	17	21	22	23	24	24	25	23	21	22	21	23	25	19	14		17.4	25.2
3-Apr-08	15	17	18	17	17	16	10	8	10	17	20	17	16	16	18	17	16	15	15	16	18	16	12	8		15.2	19.8
4-Apr-08	7	8	6	9	8	8	5	3	6	12	13	14	16	14	12	9	8	7	5	7	8	9	6	6		8.7	16.0
5-Apr-08	6	5	4	3	3	3	3	3	3	5	7	6	6	9	10	8	9	8	9	7	7	6	6	5		6.1	10.1
6-Apr-08	5	6	6	6	5	7	5	6	6	8	6	5	7	7	9	10	10	10	11	9	7	7	5	5		7.1	11.4
7-Apr-08	3	4	4	3	4	3	3	3	3	5	6	8	18	22	14	15	14	11	10	7	7	7	7	4		7.7	22.5
8-Apr-08	3	3	4	3	5	4	4	4	4	5	5	6	6	8	8	9	12	10	8	6	10	18	10	9		6.9	18.3
9-Apr-08	9	9	7	5	9	9	9	14	14	18	20	17	14	16	14	16	15	15	10	7	6	7	7		11.8	20.1	
10-Apr-08	5	3	4	3	5	4	5	5	9	12	13	14	14	15	13	7	20	23	26	23	17	17	10	11		11.6	25.8
11-Apr-08	11	11	11	10	8	6	8	5	8	21	24	24	19	15	17	15	14	15	15	11	7	4	4	5		12.0	24.0
12-Apr-08	4	5	4	5	4	4	4	5	4	6	5	10	14	9	12	12	6	11	15	14	12	13	13	9		8.3	15.2
13-Apr-08	11	10	10	11	6	9	20	22	21	27	22	22	27	27	29	28	32	29	25	18	11	8	10	8		18.5	31.8
14-Apr-08	10	8	4	7	9	8	10	12	16	28	27	37	34	32	30	32	33	31	32	27	26	19	13	18		20.9	36.6
15-Apr-08	20	19	21	17	13	13	16	17	21	23	21	23	21	23	24	23	19	17	17	16	19	15	15	16		18.8	24.2
16-Apr-08	15	11	8	7	5	7	13	21	26	31	37	37	34	34	36	35	37	39	33	27	23	16	10	16		23.3	38.7
17-Apr-08	21	25	26	21	21	18	29	37	37	42	49	44	41	38	36	34	31	27	18	13	12	12	12	16		27.5	48.7
18-Apr-08	17	19	18	17	18	22	21	23	24	22	20	19	20	20	20	20	18	16	17	11	11	13	12	12		17.9	23.8
19-Apr-08	11	12	13	13	13	11	10	8	8	11	12	13	12	13	11	8	9	8	8	7	7	8	10	11		10.3	13.5
20-Apr-08	12	12	10	7	9	7	9	10	9	6	12	12	11	13	13	14	9	10	9	7	10	11	8	10		9.9	14.3
21-Apr-08	11	12	16	14	16	17	19	22	22	25	25	25	24	24	24	19	21	19	17	21	21	21	21	25		20.1	25.1
22-Apr-08	21	18	14	15	16	17	17	25	23	22	22	22	18	19	15	17	17	14	14	10	4	4	5	4		15.6	24.6
23-Apr-08	4	4	5	5	5	6	6	11	12	10	10	9	8	10	10	10	12	11	11	11	10	6	4	4		8.2	12.3
24-Apr-08	5	5	6	8	7	7	8	8	9	9	9	9	9	9	8	7	6	6	5	7	7	7	7	6		7.3	9.4
25-Apr-08	5	6	4	7	8	5	3	6	10	11	12	13	15	13	14	12	18	19	21	15	12	13	15	9		11.1	21.2
26-Apr-08	8	8	5	4	5	5	4	6	6	7	10	17	15	15	15	15	17	15	10	5	4	3	2	4		8.6	16.9
27-Apr-08	2	3	5	4	3	3	2	3	3	3	4	4	5	3	4	4	4	6	12	13	8	11	13	11		5.5	13.3
28-Apr-08	7	4	2	2	3	4	3	3	3	4	5	7	9	12	12	14	13	17	16	13	14	12	9	11		8.2	17.1
29-Apr-08	17	11	7	5	5	3	5	2	4	5	6	10	8	6	11	8	6	20	22	22	18	24	22	27		11.5	27.2
30-Apr-08	24	P	P	P	P	P	P	P	21	21	25	23	21	22	23	21	21	20	19	18	17	15	14	13		N	24.7
1-hr Average	10.3	9.7	9.1	8.7	8.7	8.3	9.2	10.8	12.4	15.1	16.4	17.0	17.0	16.9	16.7	16.2	16.3	16.3	15.6	13.3	12.4	12.2	10.4	10.5			
Hourly Max	24.1	25.3	26.0	20.7	20.7	22.0	28.7	37.4	37.1	41.6	48.7	43.9	41.4	37.9	35.8	35.1	36.9	38.7	33.0	27.4	26.0	24.8	21.7	27.2			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

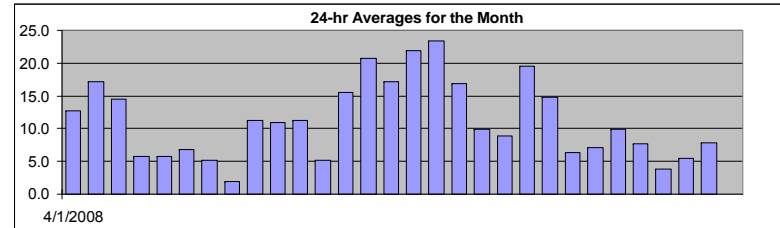
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	48.3	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	23.4	km/hr	17-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	36.8	27.1	17.1	10.6	6.3	2.5	1.3	52.7 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	10	11	12	13	12	6	7	11	15	19	22	22	20	17	15	17	18	16	9	6	16	17	11	9		12.7	22.4
2-Apr-08	9	13	9	9	10	9	9	11	15	17	21	21	22	23	23	25	22	21	22	20	23	25	19	14		17.2	24.8
3-Apr-08	14	17	18	17	17	16	10	8	10	17	20	16	16	16	18	17	14	14	15	16	18	16	11	8		14.5	19.6
4-Apr-08	7	8	6	9	8	8	5	3	6	12	12	14	15	13	11	8	8	6	5	7	8	9	6	5		5.7	15.4
5-Apr-08	5	5	3	3	3	3	3	2	2	4	6	5	9	10	8	9	9	8	9	7	7	6	6	5		5.7	9.7
6-Apr-08	5	5	6	6	5	6	5	6	6	7	5	3	6	6	8	10	10	10	11	9	7	7	4	5		6.8	11.3
7-Apr-08	2	4	3	3	4	2	3	3	1	4	6	7	18	22	12	13	13	10	10	7	7	7	6	3		5.1	21.9
8-Apr-08	3	1	3	2	3	2	4	4	4	5	4	3	4	7	7	3	11	9	6	6	3	18	9	9		1.9	18.1
9-Apr-08	9	8	7	5	8	9	9	13	14	18	20	16	12	16	13	15	15	15	15	10	7	6	7	7		11.2	19.7
10-Apr-08	5	2	4	2	4	2	4	4	8	12	12	13	13	14	8	3	18	22	26	23	17	17	10	11		10.9	25.6
11-Apr-08	11	11	11	10	8	5	8	3	7	21	24	24	19	14	16	14	14	14	14	10	7	2	4	5		11.3	23.7
12-Apr-08	2	5	3	5	3	3	2	3	3	6	5	10	14	8	12	11	3	10	15	14	11	12	13	9		5.2	15.0
13-Apr-08	11	10	10	8	6	9	20	22	21	27	21	22	26	27	29	27	31	29	25	18	10	8	9	8		15.5	31.5
14-Apr-08	9	5	4	6	8	7	10	12	16	27	27	36	34	31	29	31	32	31	32	27	26	19	13	18		20.8	36.2
15-Apr-08	19	19	21	17	13	13	15	17	20	22	21	22	21	23	23	22	19	17	17	16	19	15	15	16		17.2	23.0
16-Apr-08	15	11	7	6	5	6	13	21	26	30	37	37	34	34	35	35	36	38	33	27	23	16	10	15		21.9	38.3
17-Apr-08	21	25	26	21	20	18	28	37	37	41	48	43	41	37	35	34	31	25	18	13	12	12	12	16		23.4	48.3
18-Apr-08	17	19	18	16	18	22	21	23	24	21	20	18	19	20	19	19	17	16	17	10	10	13	11	11		16.8	23.7
19-Apr-08	11	12	13	13	12	11	10	7	8	10	11	13	11	12	10	8	9	8	8	7	7	8	10	11		9.9	13.3
20-Apr-08	11	11	10	7	9	7	8	9	9	5	12	11	10	13	13	14	9	10	8	7	9	11	7	10		8.8	13.8
21-Apr-08	11	12	16	14	16	17	19	22	22	25	25	25	24	24	24	19	21	19	17	21	21	21	21	25		19.5	25.0
22-Apr-08	21	18	14	15	16	17	17	25	23	22	22	22	18	19	15	17	17	14	14	10	3	3	5	2		14.7	24.5
23-Apr-08	3	4	5	5	5	6	5	11	11	10	10	9	7	9	10	10	12	11	11	11	10	5	4	4		6.4	11.8
24-Apr-08	5	5	6	8	7	7	8	8	9	9	8	8	8	8	7	6	6	5	5	7	7	6	7	6		7.1	8.9
25-Apr-08	5	6	4	6	8	5	3	5	10	10	11	13	15	12	13	11	18	19	21	15	11	13	15	9		9.9	21.1
26-Apr-08	8	7	5	4	5	4	3	6	6	7	10	17	15	14	15	14	16	15	10	4	3	2	2	3		7.8	16.6
27-Apr-08	1	2	4	3	2	1	1	2	2	3	3	4	4	1	1	2	4	5	12	13	8	10	13	9		3.9	13.1
28-Apr-08	6	2	1	2	2	1	1	1	2	3	4	6	7	11	11	13	13	17	16	12	14	12	8	9		5.4	16.9
29-Apr-08	17	11	7	4	5	2	4	1	3	3	5	10	6	5	10	7	4	20	22	18	24	22	27		7.8	27.1	
30-Apr-08	24	P	P	P	P	P	P	P	21	21	25	22	21	22	23	21	21	20	18	18	16	15	14	12		N	24.6
1-hr Vector	5.1	4.0	4.1	4.2	4.7	5.0	5.1	6.2	7.9	10.4	11.7	12.7	11.9	10.9	10.7	9.3	8.9	9.1	8.1	5.9	5.4	5.0	4.1	5.0			
Hourly Max	24.0	25.1	25.8	20.6	20.5	21.9	28.1	37.2	36.8	41.1	48.3	43.5	40.9	36.8	35.2	34.7	36.5	38.3	32.8	27.3	26.0	24.7	21.6	27.1			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%				
Percentile	99	95	75	50	25	5	1	Average
	355.1	338.8	272.8	241.5	139.1	31.8	6.9	269 deg

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	219	214	213	219	220	284	260	261	248	255	266	285	289	291	286	254	250	273	292	230	241	236	225	229	255	WSW
2-Apr-08	233	224	246	278	264	244	242	251	247	248	249	251	256	264	253	250	245	241	238	239	241	241	241	234	247	WSW
3-Apr-08	238	234	240	245	258	290	305	271	260	260	267	266	279	276	265	272	262	269	264	243	238	237	232	235	258	WSW
4-Apr-08	281	263	264	286	275	273	273	288	278	265	281	294	302	298	305	320	334	44	35	43	54	75	64	318	305	NW
5-Apr-08	11	43	71	60	95	84	65	88	60	104	100	74	87	76	63	60	43	49	71	50	62	48	50	46	64	ENE
6-Apr-08	45	51	56	58	68	66	64	85	74	88	74	63	33	51	48	66	65	58	76	78	88	90	89	95	68	ENE
7-Apr-08	81	98	123	131	125	111	139	302	211	161	256	267	252	252	245	173	152	175	229	214	224	204	173	178	208	SSW
8-Apr-08	183	158	256	270	292	342	144	144	155	183	203	276	221	28	58	60	303	32	28	77	304	297	305	258	311	NW
9-Apr-08	249	244	244	230	247	252	256	264	249	252	255	259	250	290	254	254	255	269	267	274	261	200	205	204	254	WSW
10-Apr-08	219	246	320	272	204	215	254	219	233	234	242	249	255	199	271	235	211	247	253	244	237	236	215	214	237	WSW
11-Apr-08	223	227	219	223	228	299	252	230	248	247	252	253	251	249	254	247	244	236	240	245	234	181	146	189	241	WSW
12-Apr-08	194	163	133	134	131	140	126	147	157	204	233	249	242	248	228	217	148	112	111	120	112	125	129	130	159	SSE
13-Apr-08	139	138	139	296	319	308	301	289	273	263	246	235	245	242	242	243	240	252	269	276	266	233	261	255	255	WSW
14-Apr-08	244	251	268	237	260	254	228	237	232	236	243	250	256	250	249	252	242	244	243	239	240	237	226	238	244	WSW
15-Apr-08	253	255	265	262	271	257	243	247	264	274	276	288	292	291	288	293	298	279	259	234	233	220	221	218	265	W
16-Apr-08	221	214	190	158	128	171	233	242	241	256	261	263	256	256	255	252	253	247	244	248	248	237	201	238	246	WSW
17-Apr-08	239	239	230	220	228	249	236	240	247	253	250	257	251	265	270	270	284	290	340	349	344	336	332	338	261	W
18-Apr-08	348	344	346	346	350	337	339	333	334	333	337	345	348	345	355	350	350	353	358	35	50	46	36	31	351	N
19-Apr-08	27	20	11	7	355	354	10	38	17	3	358	346	3	358	6	17	36	39	36	41	7	352	346	354	9	N
20-Apr-08	355	18	41	22	20	22	7	4	13	23	1	7	351	357	354	356	9	319	307	288	328	336	308	299	354	N
21-Apr-08	311	313	306	308	304	302	302	299	301	297	300	302	306	300	309	306	311	313	327	334	336	340	335	333	312	NW
22-Apr-08	330	331	319	306	306	284	293	307	295	289	296	300	308	293	303	289	280	280	277	267	298	205	226	307	297	WNW
23-Apr-08	245	285	280	301	311	334	45	47	54	47	51	50	62	57	43	59	67	58	50	56	78	70	38	52	46	NE
24-Apr-08	58	48	31	25	21	30	27	42	51	61	52	44	54	32	36	39	51	36	47	57	57	68	62	60	45	NE
25-Apr-08	94	115	167	229	270	293	307	232	227	229	218	225	234	237	257	240	234	234	236	232	229	232	237	229	233	SW
26-Apr-08	239	279	266	205	233	255	249	226	224	226	236	238	250	245	244	262	256	253	254	222	203	163	132	90	243	WSW
27-Apr-08	342	300	278	331	200	140	68	260	213	195	144	255	355	189	234	236	273	273	296	300	296	278	245	246	269	W
28-Apr-08	294	352	178	101	201	261	25	173	223	169	126	111	111	140	139	109	95	69	74	71	75	76	89	187	103	ESE
29-Apr-08	209	230	242	209	273	321	310	16	203	358	294	285	317	59	22	6	100	236	241	239	239	239	242	242	249	WSW
30-Apr-08	239	P	P	P	P	P	P	P	244	253	258	271	280	283	281	282	273	267	264	260	256	250	259	251	N	-
Hourly Avg	257	263	264	273	278	292	284	275	263	262	266	273	274	276	277	272	266	268	270	262	260	250	247	253		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%			
Percentile	99	95	75	50	25	5	1
	81.6	57.6	21.3	13.3	8.4	5.2	4.3

Status Flag Characters

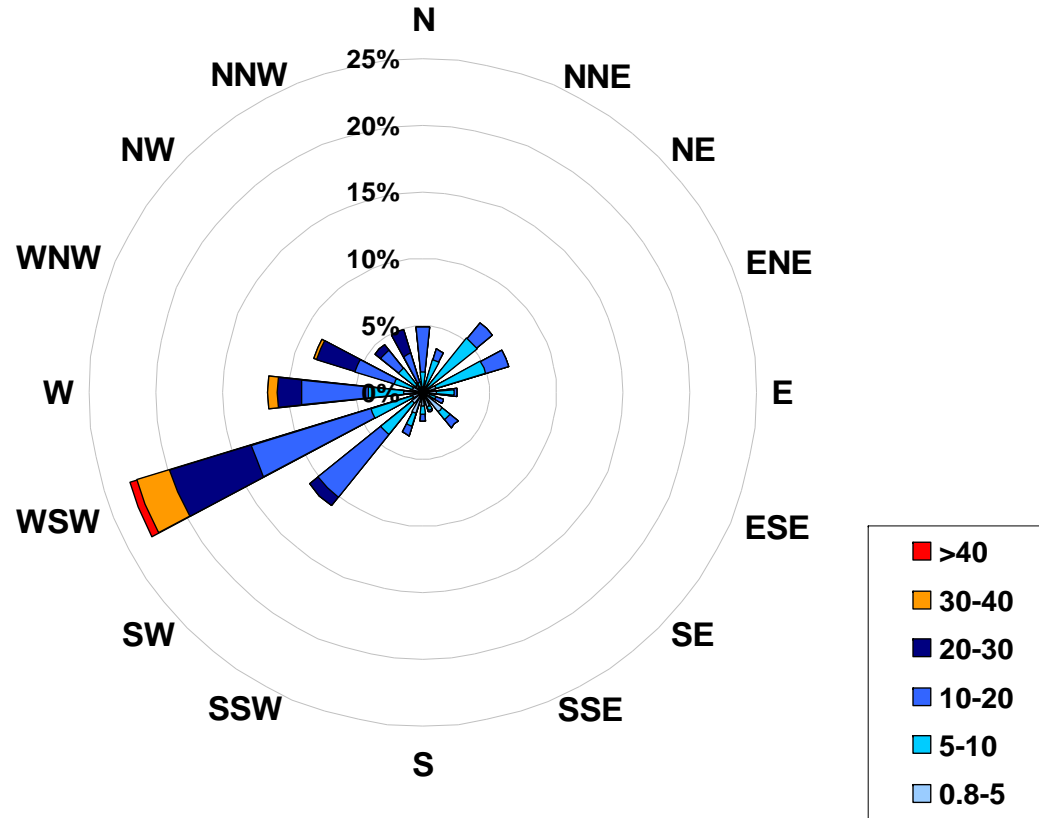
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	5	6	6	5	6	37	11	13	8	9	9	8	9	12	16	18	15	15	9	31	8	7	6	8	37.1	
2-Apr-08	13	7	36	24	13	6	7	9	8	10	10	10	11	10	10	10	9	7	5	4	4	4	8	9	36.4	
3-Apr-08	10	7	5	6	8	8	9	17	13	9	9	16	14	11	13	17	28	12	6	8	5	5	9	17	28.1	
4-Apr-08	20	10	16	12	12	9	17	28	22	14	15	15	16	19	22	18	29	27	25	17	9	12	27	34	33.6	
5-Apr-08	22	15	29	32	25	18	32	55	57	39	24	35	18	17	15	20	15	18	16	11	12	17	13	15	56.6	
6-Apr-08	15	15	11	15	14	24	14	17	21	22	34	62	35	26	25	19	13	12	10	7	10	7	64	14	63.9	
7-Apr-08	45	18	25	21	14	38	19	43	65	27	28	20	12	13	49	27	11	21	23	17	9	6	26	35	64.7	
8-Apr-08	32	72	42	83	57	71	22	15	28	33	47	82	72	36	37	74	18	37	34	25	86	8	19	13	86.3	
9-Apr-08	9	7	15	13	15	11	13	7	8	11	11	18	24	14	24	17	20	11	8	7	13	10	11	9	24.3	
10-Apr-08	14	56	24	48	30	58	46	55	20	11	15	20	19	22	55	84	20	15	8	5	6	8	12	6	84.3	
11-Apr-08	8	6	5	6	10	35	13	46	21	9	10	10	10	17	14	18	17	19	13	11	15	57	31	14	57.4	
12-Apr-08	53	18	47	16	49	49	63	64	47	18	26	15	12	20	16	17	81	16	10	7	15	19	10	11	80.9	
13-Apr-08	5	7	5	58	24	9	10	5	10	6	10	8	8	8	9	11	8	10	8	4	20	28	25	22	57.7	
14-Apr-08	21	56	31	31	21	29	9	8	10	9	11	8	10	13	14	13	8	9	5	5	4	4	6	10	56.2	
15-Apr-08	6	8	6	8	10	13	8	8	13	10	9	13	14	12	19	16	14	9	15	9	9	8	6	7	18.7	
16-Apr-08	7	7	17	6	19	31	25	4	5	11	7	9	8	9	9	8	8	8	6	6	6	8	16	26	31.3	
17-Apr-08	8	6	8	6	7	11	13	6	8	9	7	8	9	13	11	9	7	25	8	10	7	8	5	5	24.6	
18-Apr-08	8	5	8	12	8	5	6	6	6	9	10	13	15	12	14	13	12	15	10	19	13	13	14	13	18.8	
19-Apr-08	12	13	11	10	11	11	15	22	22	14	20	14	16	14	21	22	17	18	19	16	17	10	7	8	22.1	
20-Apr-08	8	25	12	16	13	17	15	12	20	26	14	21	16	14	12	18	16	11	13	13	13	8	16	8	26.3	
21-Apr-08	6	7	5	6	4	4	4	4	4	5	5	5	6	6	9	9	7	11	12	7	5	5	7	5	12.1	
22-Apr-08	6	7	8	5	7	8	7	5	7	8	8	10	15	12	14	10	8	7	9	17	24	37	19	64	64.3	
23-Apr-08	44	11	16	13	10	19	44	11	14	14	18	19	29	17	22	18	17	15	11	9	8	21	19	15	44.1	
24-Apr-08	18	18	17	11	10	15	12	12	15	25	23	21	21	25	30	38	32	43	33	16	9	10	12	14	42.7	
25-Apr-08	16	19	24	15	13	16	18	25	14	14	19	15	15	20	16	23	12	8	5	7	6	5	5	7	25.1	
26-Apr-08	10	14	24	18	13	33	33	13	12	14	17	10	15	16	15	14	11	13	9	31	45	61	50	47	60.5	
27-Apr-08	65	65	52	45	55	69	76	75	40	37	47	27	43	84	91	75	18	17	14	9	18	13	12	34	90.5	
28-Apr-08	21	82	69	35	52	90	73	70	60	56	61	42	45	30	31	22	18	9	6	11	5	7	8	39	89.9	
29-Apr-08	7	12	20	29	21	64	38	69	29	71	56	25	50	44	31	32	64	7	10	6	13	6	6	5	70.7	
30-Apr-08	5	P	P	P	P	P	P	P	6	7	7	7	5	5	6	7	5	5	7	7	10	7	5	6	10.4	

Hourly Max	65	82	69	83	57	90	76	75	65	71	61	82	72	84	91	84	81	43	34	31	86	61	64	64
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	103
5	to	10	208
10	to	20	270
20	to	30	103
30	to	40	25
	>	40	4
Total Non-Zero Values			713

PASZA
Evergreen Park Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

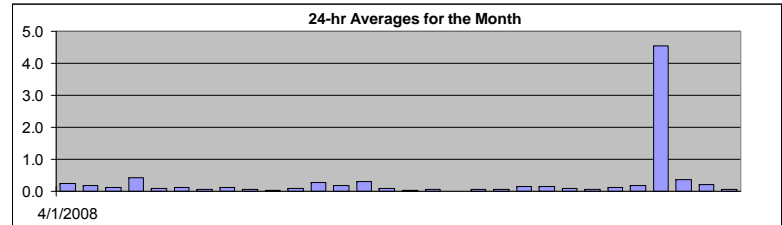
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	59.3	ppb	27-Apr	11:00	12:00
Maximum 24-hr Average:	4.5	ppb	27-Apr		



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	0.4	0.2	0.1	0.0	0.0	0.0	0.3 ppb	0.1 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-Apr-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
3-Apr-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
4-Apr-08	0	0	0	1	1	0	A	0	0	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0.4	1.6
5-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
7-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
8-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
9-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
10-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1	
11-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.2
12-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
13-Apr-08	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
14-Apr-08	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	1.1
15-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.2
16-Apr-08	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
17-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
18-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
19-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
20-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
21-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
22-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.3	
23-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4
24-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.4
25-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.5
26-Apr-08	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	1.0
27-Apr-08	0	0	0	0	0	0	0	0	0	2	6	59	28	5	1	1	1	1	A	0	0	0	0	0	0	4.5	59.3
28-Apr-08	0	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	A	0	0	0	0	0	0	0	0.4	2.9
29-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.4
30-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.1
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	2.3	1.1	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1			
Hourly Max	0.4	0.5	0.9	1.0	1.1	0.4	0.5	0.8	1.0	2.3	5.9	59.3	27.7	4.7	1.6	1.2	0.7	0.9	2.0	0.4	0.8	0.2	0.4	0.6			

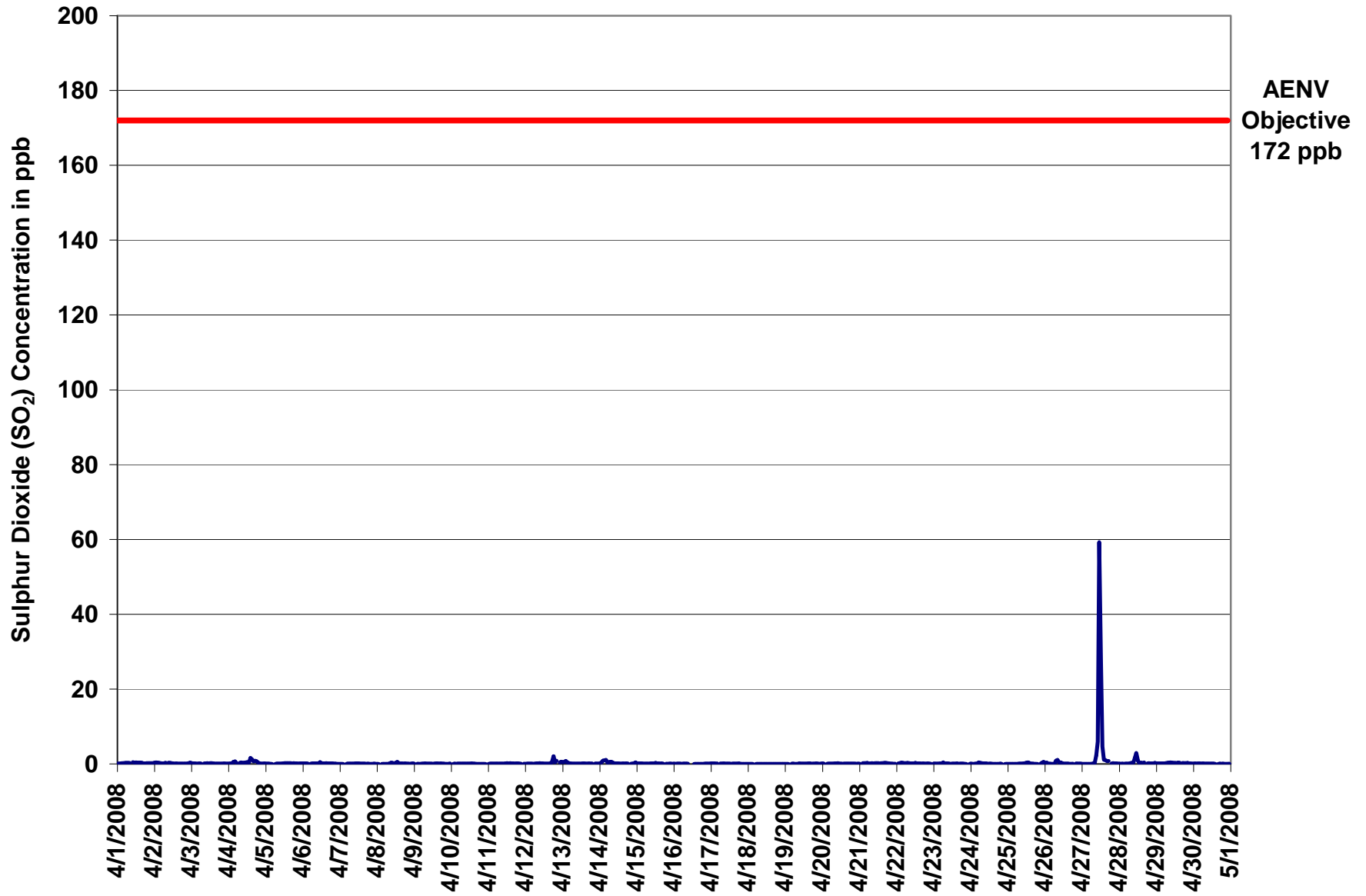


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

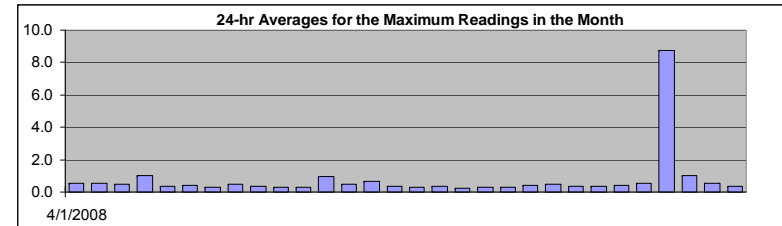
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	96.5	ppb	27-Apr	11:00 12:00
Maximum 24-hr Value:	8.7	ppb	27-Apr	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.5	1.2	0.4	0.3	0.3	0.2	0.2	0.7 ppb	0.3 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	0	0	1	0	1	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	1	1	0	0.6	1.3	
2-Apr-08	1	1	1	1	0	0	0	1	A	1	1	0	0	0	1	0	0	0	0	0	0	2	1	0	0.6	1.5
3-Apr-08	2	0	0	1	0	0	0	A	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0.5	2.4	
4-Apr-08	0	0	0	1	1	1	A	1	1	1	1	1	1	1	6	3	1	1	1	1	0	0	0	1.0	5.6	
5-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
6-Apr-08	0	0	0	0	A	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0.4	1.6	
7-Apr-08	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
8-Apr-08	0	0	A	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	3	0.5	3.0	
9-Apr-08	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.6	
10-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.4	
11-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
12-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	4	3	A	1	1	0.9	4.5	
13-Apr-08	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.5	1.2	
14-Apr-08	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0.6	1.3	
15-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0.3	0.6	
16-Apr-08	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	1	0	0	0	0.3	1.5	
17-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
18-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3	
19-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
20-Apr-08	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
21-Apr-08	0	A	1	1	1	1	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0.4	0.6	
22-Apr-08	A	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0.5	0.9	
23-Apr-08	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.9	
24-Apr-08	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.9	
25-Apr-08	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0	0	0	A	0	1	0.4	1.1	
26-Apr-08	1	1	0	0	0	0	0	2	2	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0.5	2.3	
27-Apr-08	0	0	0	0	0	0	0	0	1	5	31	96	49	10	2	1	1	1	A	1	1	0	0	8.7	96.5	
28-Apr-08	0	0	0	0	0	0	0	1	1	2	4	5	2	0	1	1	2	A	0	1	0	0	1	1.0	4.9	
29-Apr-08	0	0	0	0	0	0	0	1	1	1	1	0	1	0	1	1	A	1	0	0	1	0	0	0.5	1.0	
30-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4	
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	1.6	3.9	2.2	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5		
Hourly Max	2.4	1.2	1.3	1.3	1.3	1.0	0.9	2.3	1.8	4.7	30.9	96.5	49.2	9.6	5.6	2.9	1.5	1.5	4.5	3.9	2.6	1.6	1.5	3.0		

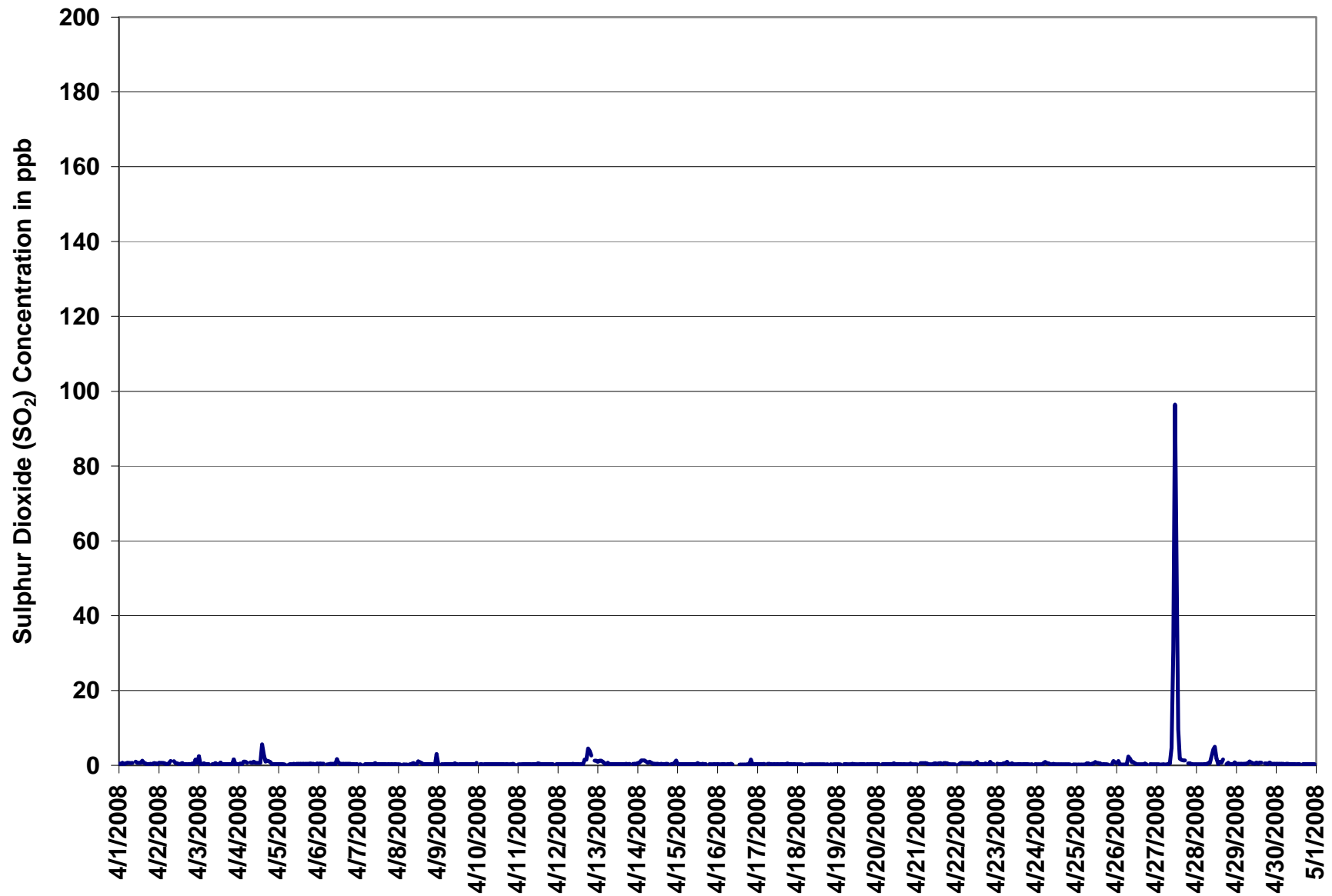
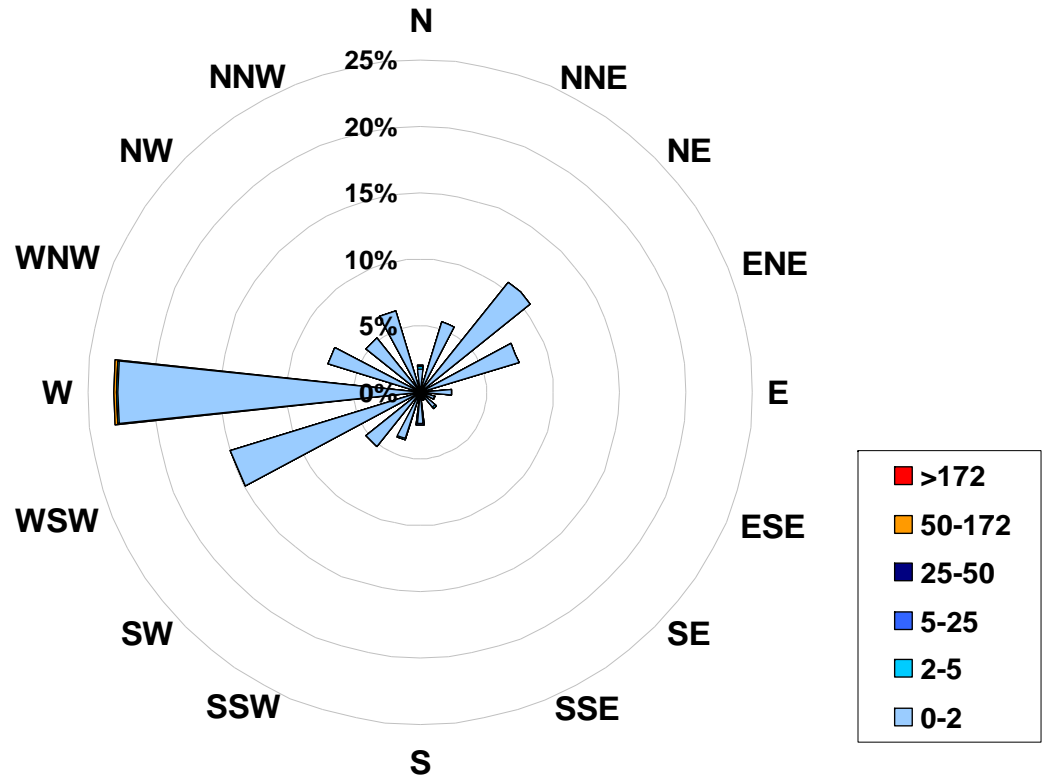


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	679
2	to	5	4
5	to	25	1
25	to	50	1
50	to	172	1
	>	172	0
Total Non-Zero Values			686

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

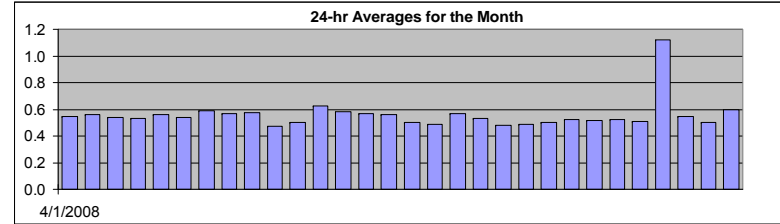
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb

Summary				
Maximum 1-hr Average:	3.6	ppb	27-Apr	11:00 12:00
Maximum 24-hr Value:	1.1	ppb	27-Apr	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.7	0.6	0.5	0.5	0.4	0.4	0.6 ppb	0.5 ppb

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	0	0	0	1	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.7
2-Apr-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
3-Apr-08	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0.5	0.8
4-Apr-08	0	0	0	0	1	1	A	0	1	1	1	1	0	0	1	0	1	0	1	1	1	1	1	1	1	0.5	0.8
5-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0.6	0.7
6-Apr-08	0	0	0	1	A	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
7-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
8-Apr-08	1	1	A	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0.6	0.9
9-Apr-08	0	A	1	0	0	0	1	0	0	1	0	1	0	0	1	0	0	1	1	2	1	1	0	0	0	0.6	1.8
10-Apr-08	A	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	1	0	1	1	1	A	0	0.5	0.6
11-Apr-08	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	A	0	0.5	0.6
12-Apr-08	0	0	0	0	1	1	1	1	1	2	1	1	1	0	1	0	1	0	1	1	1	1	A	1	0	0.6	1.7
13-Apr-08	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.7
14-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	0.6
15-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	0.6	0.6
16-Apr-08	0	0	1	1	0	0	1	1	1	1	1	0	C	C	A	0	1	0	0	1	1	1	0	0	0	0.5	0.6
17-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0.5	0.6
18-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
19-Apr-08	0	1	1	A	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	0	1	0.5	0.6
20-Apr-08	0	0	A	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0.5	0.5
21-Apr-08	0	A	0	0	1	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	1	0	1	1	1	0.5	0.5
22-Apr-08	A	1	0	0	1	1	1	0	1	0	0	0	1	0	1	0	1	0	1	1	1	1	0	0	A	0.5	0.6
23-Apr-08	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	A	1	0.5	0.9
24-Apr-08	1	0	1	0	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0.5	0.6
25-Apr-08	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	0	1	A	1	0	1	0.5	0.6
26-Apr-08	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	0	0	1	0	A	1	1	1	0	0	0.5	0.6
27-Apr-08	0	1	1	1	2	3	2	2	1	1	1	4	1	1	1	1	0	0	A	1	1	1	1	1	1	1.1	3.6
28-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	0	0	0	0	0	0	0.5	0.7
29-Apr-08	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0	1	1	1	0	1	0	0.5	0.7
30-Apr-08	0	0	1	0	1	1	0	1	1	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.9
Hourly Avg	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5		
Hourly Max	0.7	0.6	1.2	1.3	2.4	3.0	2.4	1.6	1.7	0.9	0.9	3.6	1.4	0.7	0.9	0.6	0.7	0.7	0.9	1.8	0.9	0.7	0.7	0.8			

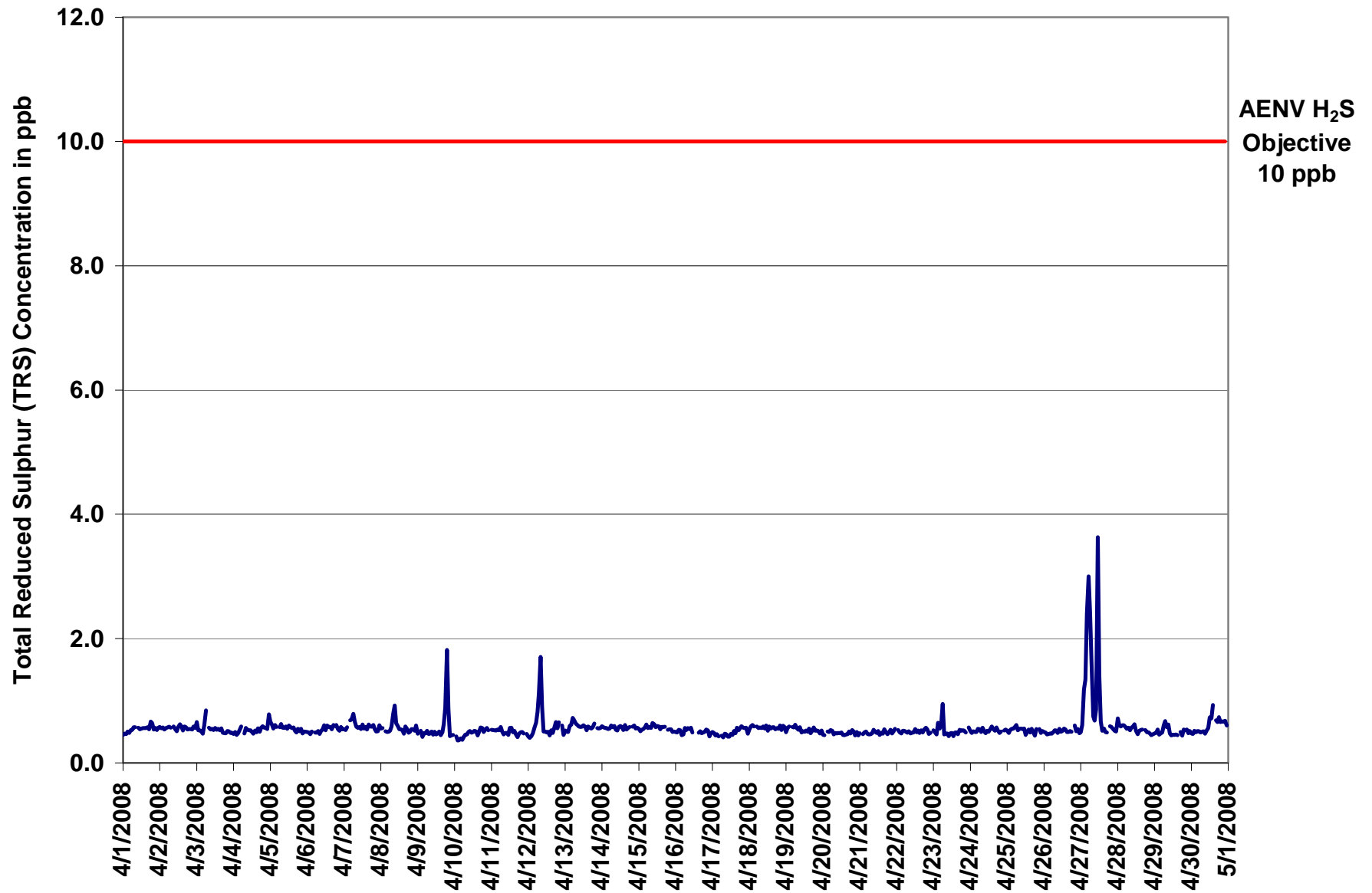


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

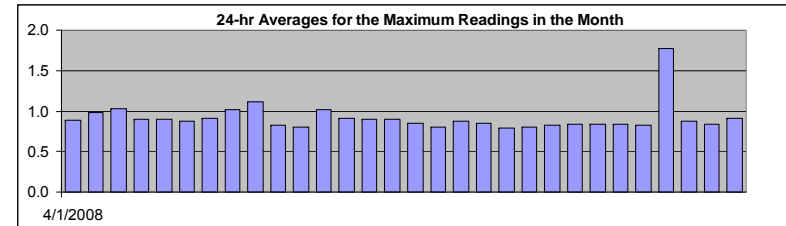
Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	6.6	ppb	27-Apr	11:00 12:00
Maximum 24-hr Value:	1.8	ppb	27-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	1.2	0.9	0.9	0.8	0.7	0.7	0.9 ppb	0.9 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
2-Apr-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	2.3
3-Apr-08	3	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1.0	3.3	
4-Apr-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
5-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
6-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
7-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
8-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.0	3.2
9-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	1	1	1	1.1	3.4
10-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.0
11-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	0.9
12-Apr-08	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	2.3
13-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.2
14-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.1
15-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.2
16-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	1	1	1	1	1	0.9	1.5
17-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
18-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
19-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
20-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
21-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
22-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.1
23-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.4
24-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	0.9
25-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.0
26-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.0
27-Apr-08	1	1	2	2	3	4	3	2	1	1	2	7	3	1	1	1	1	1	A	1	1	1	1	1	1.8	6.6
28-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.1
29-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.1
30-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.4
Hourly Avg	0.9	0.8	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	1.1	0.9	0.9	0.9	0.8	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9		
Hourly Max	3.3	1.0	1.8	2.5	3.2	3.5	3.3	2.4	2.3	1.7	1.9	6.6	2.7	1.2	1.3	0.9	1.4	1.1	2.3	3.4	2.8	1.7	2.3	3.2		

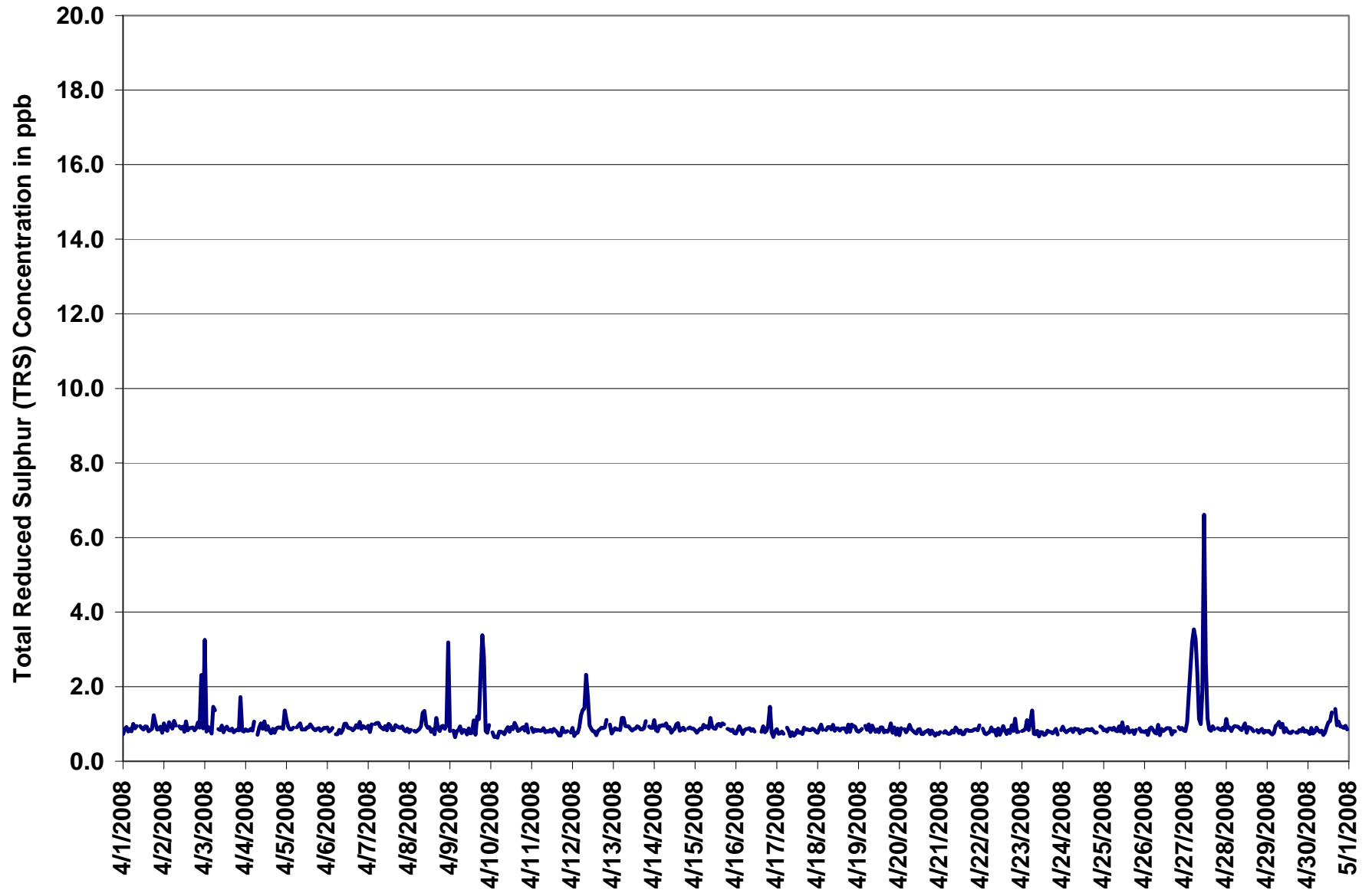
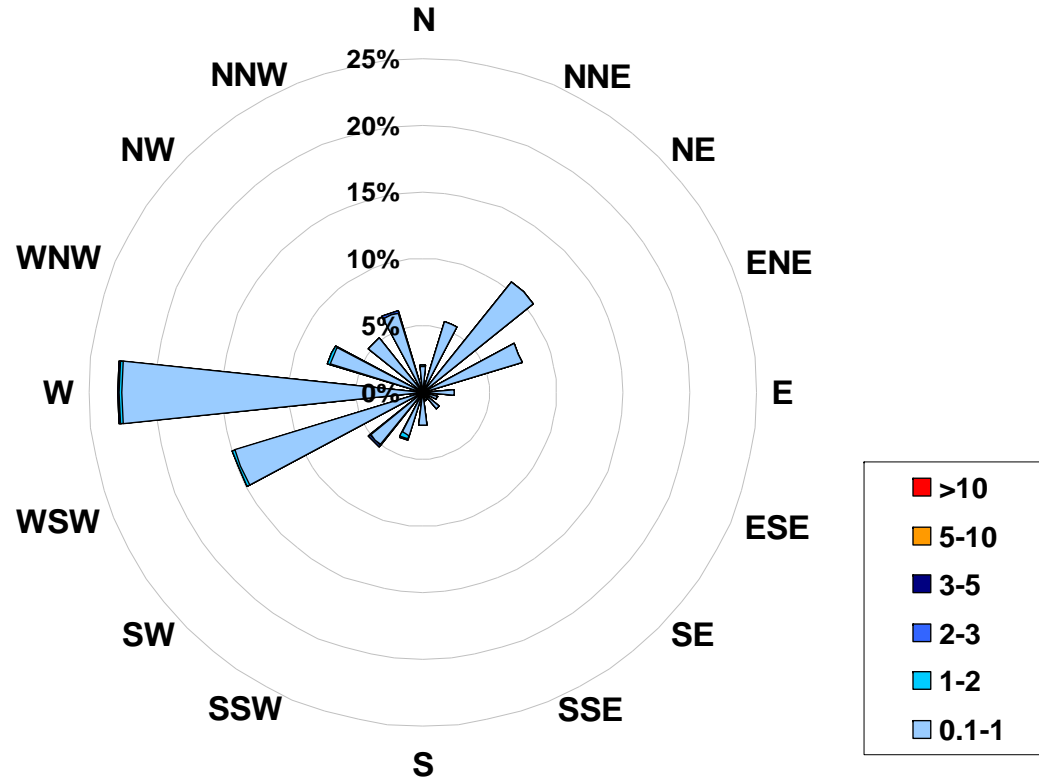


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for April 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	675
1	to	2	7
2	to	3	2
3	to	5	2
5	to	10	0
	>	10	0
Total Non-Zero Values			686

PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

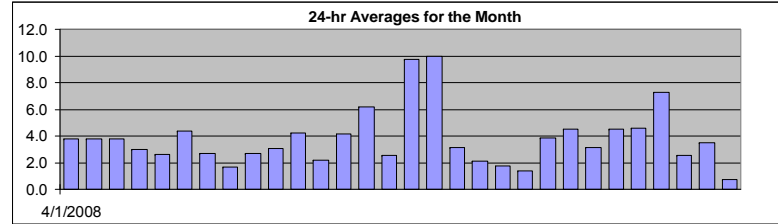
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Draft Objective Limit: Alberta Environment: 1-hr - µg/m³ 24-hr 30 µg/m³
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	47.1 µg/m ³ 17-Apr 9:00 10:00
Maximum 24-hr Value:	10.0 µg/m ³ 17-Apr



AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	23.4	9.0	4.6	3.1	1.8	0.3	0.0	3.8 3 µg/m ³	3.3 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	2	1	1	1	2	2	5	8	8	10	11	5	1	2	5	6	4	4	3	3	4	2	2	1	3.8	11.2
2-Apr-08	1	1	1	2	2	2	4	6	8	8	7	5	5	3	5	6	7	3	3	3	3	4	1	0	3.8	8.5
3-Apr-08	1	1	2	3	3	4	5	9	9	5	5	3	3	3	6	4	5	3	3	3	3	3	2	2	3.8	9.0
4-Apr-08	3	3	2	3	3	4	4	4	4	4	4	3	3	2	0	2	3	3	3	4	4	2	2	3	3.0	4.5
5-Apr-08	4	3	3	2	2	2	3	4	2	3	3	4	4	1	2	1	2	2	2	4	2	2	2	5	2.6	5.5
6-Apr-08	6	5	4	4	5	4	5	5	6	4	2	3	4	3	4	4	4	5	4	5	5	4	5	4	4.4	6.0
7-Apr-08	3	4	4	4	4	5	8	12	3	1	5	0	0	0	3	1	0	0	0	0	1	1	2	3	2.7	11.9
8-Apr-08	1	1	1	1	3	3	2	6	1	2	0	0	1	1	0	0	3	1	1	2	5	3	2	1	1.7	5.7
9-Apr-08	1	0	3	0	1	0	2	4	4	3	2	0	2	2	1	4	4	3	3	3	6	6	5	5	2.7	6.5
10-Apr-08	3	2	2	2	2	4	4	5	3	3	3	2	3	4	5	4	1	3	5	6	3	2	2	2	3.0	6.1
11-Apr-08	2	2	3	3	4	5	5	4	4	5	6	5	P	4	5	4	5	3	2	3	4	6	7	6	4.2	7.5
12-Apr-08	4	4	3	3	5	5	5	7	8	3	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2.2	8.4
13-Apr-08	3	3	5	5	5	6	6	0	0	0	4	1	1	5	10	5	4	11	4	4	6	4	4	4	4.2	11.4
14-Apr-08	5	3	4	4	5	5	7	8	3	5	3	10	7	10	12	11	11	8	8	5	4	2	2	4	6.2	11.5
15-Apr-08	4	4	4	4	3	3	4	5	4	3	2	1	1	1	3	1	3	3	3	3	2	2	2	1	2.6	4.7
16-Apr-08	1	1	1	1	2	2	7	5	5	8	22	24	27	27	19	17	18	22	7	4	5	3	3	2	9.7	26.9
17-Apr-08	3	4	5	4	4	4	7	24	8	47	28	32	24	11	5	4	2	2	8	4	3	2	2	2	10.0	47.1
18-Apr-08	2	4	2	3	5	3	4	3	2	3	3	3	3	2	3	3	5	5	4	3	3	2	1	3	3.1	4.7
19-Apr-08	3	2	2	2	3	3	3	2	2	2	1	3	3	2	1	2	3	2	2	2	2	2	1	1	2.1	3.3
20-Apr-08	1	1	0	1	1	2	1	2	1	2	1	2	1	3	2	2	2	2	2	2	2	3	2	2	1.8	2.9
21-Apr-08	2	1	0	0	0	0	1	1	1	2	1	2	1	2	2	3	2	4	1	0	1	2	1	2	1.4	3.5
22-Apr-08	1	2	2	2	2	3	4	6	6	3	4	4	12	4	3	2	4	5	6	4	4	4	3	3	3.9	11.9
23-Apr-08	5	4	5	4	5	7	13	7	1	3	4	3	2	3	4	4	4	4	4	5	4	4	4	4	4.5	13.0
24-Apr-08	4	4	3	3	3	3	4	3	3	3	2	2	2	2	3	3	3	3	3	3	4	4	3	4	3.1	4.4
25-Apr-08	3	3	5	5	7	6	8	7	4	2	1	1	2	3	3	4	5	5	5	5	6	6	4	5	4.5	8.3
26-Apr-08	5	6	5	4	5	6	8	6	4	3	3	4	4	4	3	3	3	3	3	6	7	6	4	5	4.6	8.0
27-Apr-08	5	5	8	8	10	12	11	10	6	5	8	16	13	6	3	5	6	7	9	5	6	5	3	2	7.3	16.0
28-Apr-08	3	1	2	0	2	3	6	4	4	3	3	3	1	0	2	2	1	4	1	2	3	2	2	7	2.6	6.8
29-Apr-08	5	3	1	2	2	2	6	9	10	3	4	2	1	0	4	2	5	11	5	1	1	1	0	1	3.5	10.6
30-Apr-08	1	1	0	1	0	0	0	1	2	1	0	2	2	1	1	1	0	1	1	1	1	0	1	0	0.7	2.0
Hourly Avg	2.9	2.6	2.8	2.8	3.3	3.6	5.1	5.9	4.2	4.9	4.8	4.8	4.5	3.7	3.9	3.8	4.0	4.4	3.5	3.2	3.5	3.0	2.5	2.9		
Hourly Max	6.0	5.6	8.4	7.6	10.5	11.7	13.0	24.3	10.0	47.1	28.0	32.1	26.9	26.8	19.4	17.4	18.0	21.5	9.0	6.1	6.8	6.3	7.5	6.8		

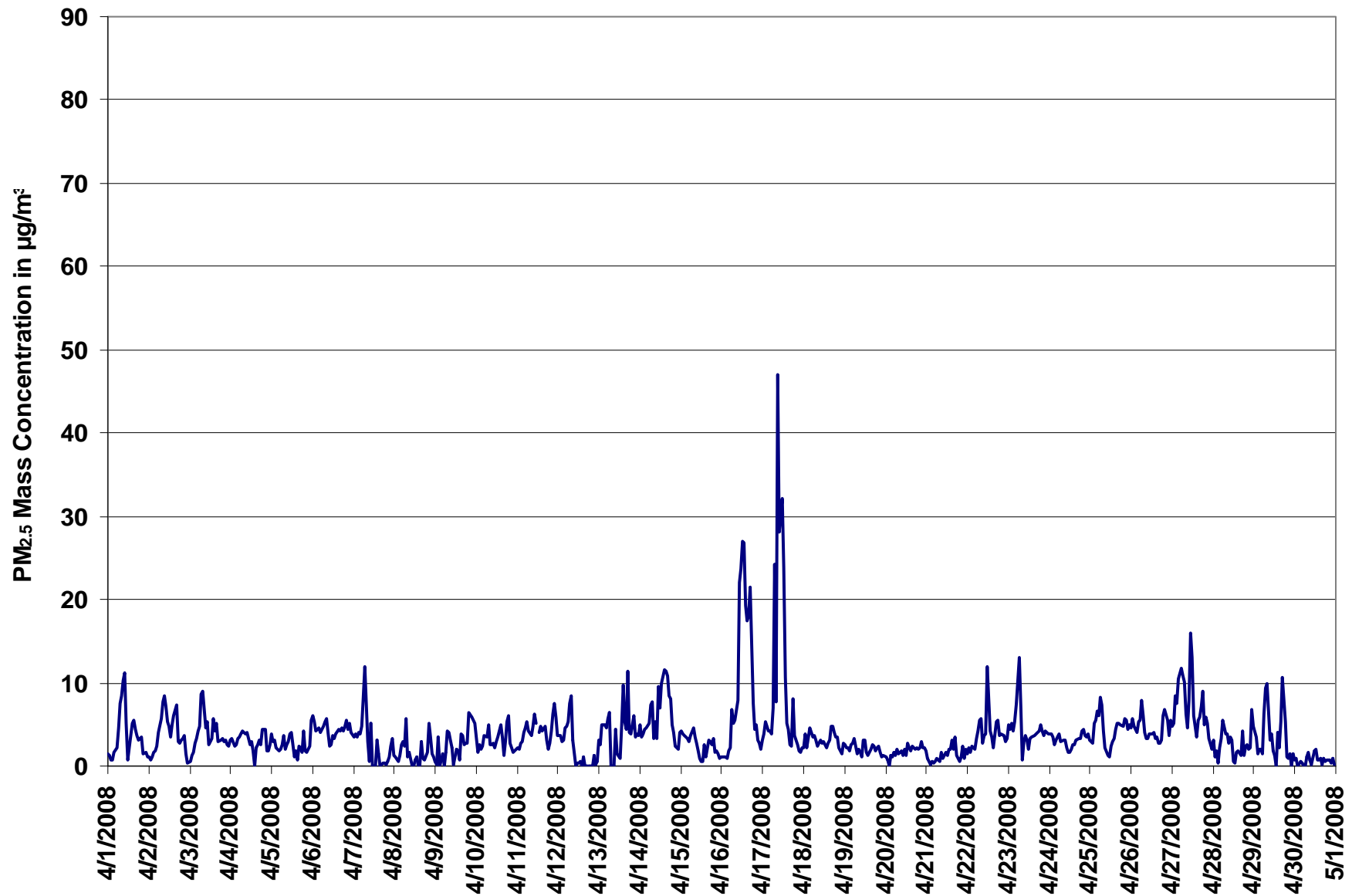


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

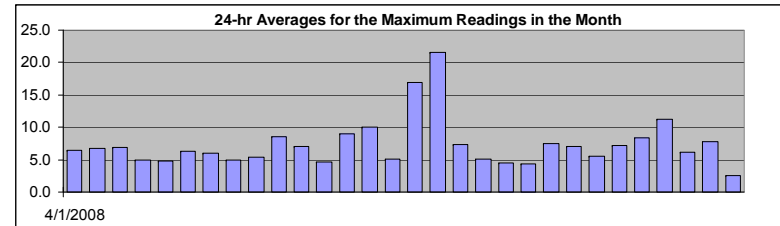
Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	111.9	µg/m ³	17-Apr	7:00 8:00
Maximum 24-hr Value:	21.5	µg/m ³	17-Apr	

AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	36.7	15.4	7.7	5.8	4.3	2.5	1.4	7.3 6 µg/m ³	6.7 µg/m ³



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	4	4	3	3	3	5	10	12	11	14	14	10	2	4	10	8	7	6	5	5	6	4	4	4	6.5	13.7
2-Apr-08	3	3	3	4	4	6	6	9	9	14	9	7	9	6	9	13	15	7	5	5	4	6	5	2	6.8	14.8
3-Apr-08	5	5	3	5	5	8	6	13	15	6	8	5	4	10	15	8	9	5	5	6	4	7	4	4	6.9	15.3
4-Apr-08	5	6	5	5	5	5	6	6	7	6	5	4	4	4	2	6	5	4	5	7	6	3	3	6	5.0	7.3
5-Apr-08	6	5	4	4	3	4	5	6	3	6	5	5	7	3	4	4	5	6	4	7	3	3	5	8	4.8	7.5
6-Apr-08	8	7	6	6	5	6	7	7	7	6	4	5	5	5	6	6	6	6	6	6	7	8	7	8	6.3	7.8
7-Apr-08	6	6	6	7	7	10	13	15	7	4	12	0	0	2	11	7	3	4	3	5	2	3	5	6	6.0	15.4
8-Apr-08	4	4	3	3	5	6	6	11	10	3	1	0	4	4	4	5	4	3	3	3	12	11	4	4	5.0	12.1
9-Apr-08	2	2	12	3	4	2	4	7	5	6	5	3	5	6	3	8	5	5	4	4	9	9	7	9	5.3	12.1
10-Apr-08	5	5	5	5	6	6	5	8	6	5	4	5	5	13	16	25	22	13	14	15	4	4	3	4	8.5	25.0
11-Apr-08	4	3	5	6	6	8	9	7	5	7	8	7	P	8	6	8	6	5	4	6	6	14	13	8	7.0	14.0
12-Apr-08	7	7	5	5	7	8	8	10	13	8	2	2	2	3	1	6	5	2	1	1	1	3	2	3	4.7	13.3
13-Apr-08	5	5	7	11	7	9	10	6	2	8	21	4	5	18	20	8	10	25	7	5	8	5	5	5	9.0	24.5
14-Apr-08	8	6	6	6	7	7	10	11	8	9	5	19	13	13	19	18	20	12	16	8	6	3	3	7	10.1	19.8
15-Apr-08	7	6	5	5	5	4	6	8	5	6	3	4	3	4	9	3	6	5	8	7	4	3	3	3	5.0	8.9
16-Apr-08	3	3	2	4	5	4	10	8	8	16	48	36	41	37	31	30	36	37	17	7	10	6	4	3	17.0	48.3
17-Apr-08	5	9	7	8	9	7	14	112	27	104	45	47	35	16	9	7	4	13	17	5	4	3	4	6	21.5	111.9
18-Apr-08	4	7	4	6	9	11	6	5	6	9	12	7	7	8	9	8	9	8	8	8	7	7	4	5	7.3	11.7
19-Apr-08	6	6	5	5	5	6	7	4	4	6	7	7	7	5	7	5	4	4	4	5	5	3	4	3	5.1	7.2
20-Apr-08	4	4	4	4	3	5	4	4	3	5	4	6	5	6	4	5	5	4	5	4	4	6	5	4	4.5	6.3
21-Apr-08	4	4	2	3	3	2	3	4	3	6	3	4	4	5	5	6	5	7	8	3	4	5	3	6	4.3	7.9
22-Apr-08	3	6	6	5	4	9	7	8	9	8	5	6	21	9	9	4	7	10	15	6	7	7	5	6	7.5	20.9
23-Apr-08	9	7	8	7	8	13	16	12	6	5	5	4	4	5	6	5	6	5	6	7	6	6	6	6	7.0	16.0
24-Apr-08	6	7	6	6	7	6	6	5	6	5	4	3	3	6	5	5	5	6	5	6	6	6	6	7	5.5	7.2
25-Apr-08	6	5	8	7	9	10	10	13	8	5	5	5	4	6	6	7	8	8	8	7	8	7	6	6	7.2	13.2
26-Apr-08	7	9	9	6	9	12	11	12	6	5	6	7	7	7	6	9	7	7	6	13	11	13	6	8	8.3	13.5
27-Apr-08	8	7	11	10	13	15	15	15	10	8	14	21	21	12	7	10	10	11	14	11	9	7	5	5	11.2	21.3
28-Apr-08	6	4	5	3	5	7	10	7	7	8	9	7	6	4	4	5	6	10	3	4	4	3	7	14	6.2	14.3
29-Apr-08	15	6	3	4	5	4	12	14	14	6	9	6	6	6	9	7	17	20	9	4	3	5	2	3	7.8	20.2
30-Apr-08	3	3	2	2	2	1	2	3	3	3	2	4	5	3	2	2	2	3	4	4	2	3	3	2	2.6	4.5
Hourly Avg	5.5	5.3	5.4	5.3	5.8	6.9	8.1	12.1	7.8	10.2	9.5	8.4	8.4	7.9	8.5	8.3	8.6	8.7	7.2	6.2	5.8	5.7	4.7	5.6		
Hourly Max	14.6	9.3	12.1	10.8	13.2	14.6	16.0	111.9	27.0	103.6	48.3	47.2	40.8	36.8	31.3	30.5	36.4	36.8	17.2	15.4	12.1	14.0	12.7	14.3		

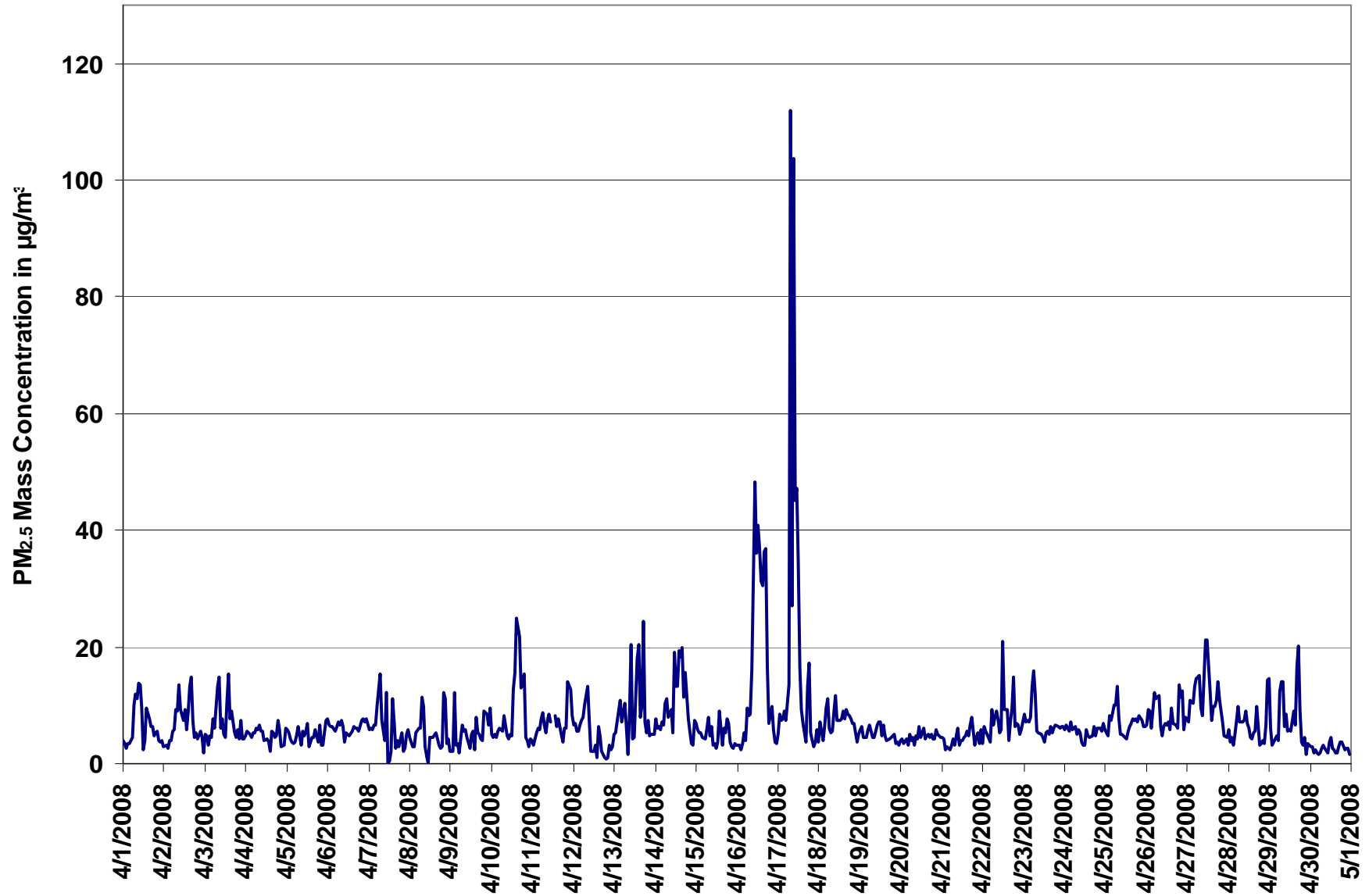
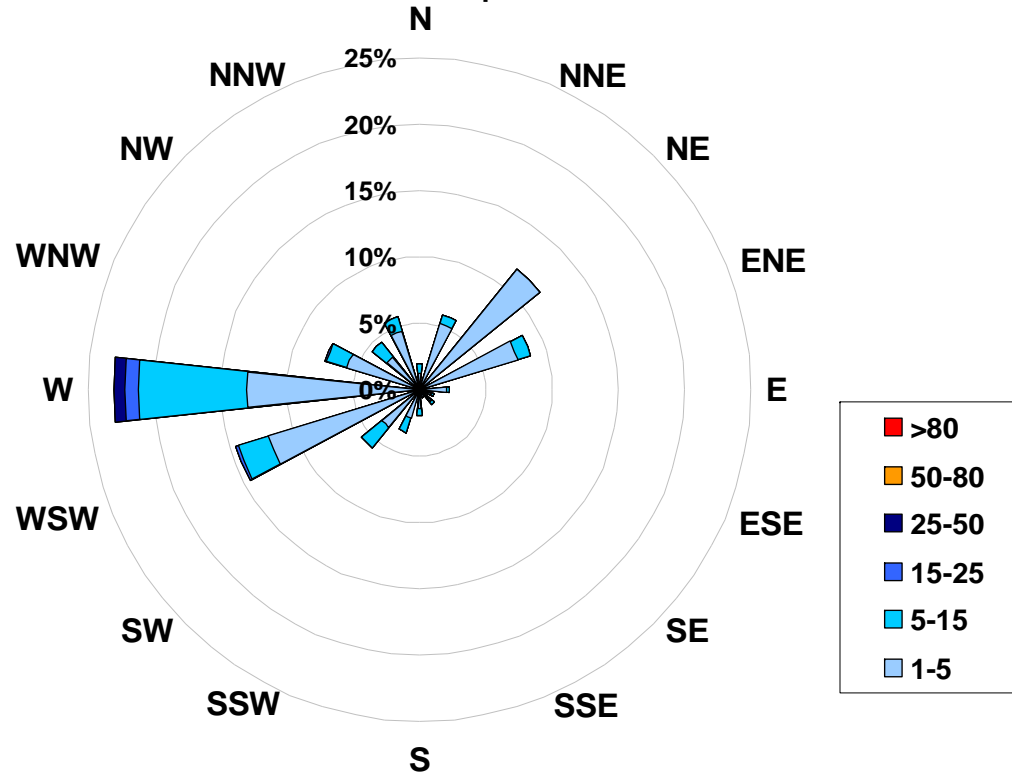


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Evergreen Park Site for April 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	573
5	to	15	132
15	to	25	9
25	to	50	5
50	to	80	0
	>	80	0
Total Non-Zero Values			719

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

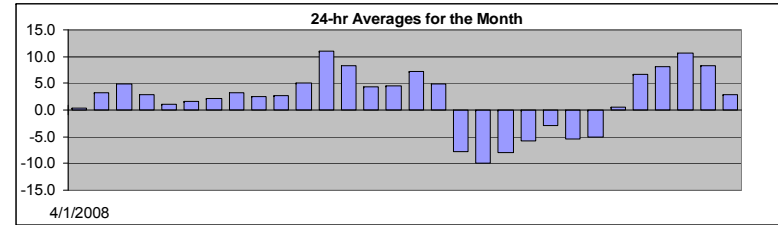
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	20.6 °C	12-Apr	17:00 18:00
Maximum 24-hr Value:	10.9 °C	12-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.8	14.4	6.9	2.2	-3.0	-8.6	-11.7	2.1 °C	2.2 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	-2	-2	-3	-3	-3	-3	-4	-3	-2	0	1	2	3	3	4	4	4	4	3	2	2	1	0	0	0.4	4.4	
2-Apr-08	0	-1	-1	-1	-1	-2	-2	-1	1	3	4	6	7	7	8	8	8	8	7	5	4	4	3	3	3.2	8.0	
3-Apr-08	3	3	3	4	3	3	3	3	4	5	6	7	8	9	9	8	8	7	6	6	5	4	2	2	4.9	8.9	
4-Apr-08	1	0	0	0	-1	-3	-4	-2	2	4	5	7	7	7	8	7	7	6	4	3	2	1	1	1	2.9	7.6	
5-Apr-08	0	0	-1	-1	-1	-2	-2	-2	-1	0	1	2	3	5	6	6	5	5	4	3	2	-1	-2	-2	1.1	6.3	
6-Apr-08	-1	-1	-1	-1	-1	-1	-1	-1	0	0	1	3	3	4	6	6	6	6	5	4	2	0	-1	-1	1.6	6.4	
7-Apr-08	-3	-3	-3	-4	-4	-5	-5	-2	0	2	5	8	9	10	8	8	9	8	8	6	3	1	-1	-1	2.2	9.6	
8-Apr-08	-3	-3	-4	-5	-5	-6	-6	-2	3	5	7	9	11	11	11	10	10	9	8	6	4	3	2	1	3.3	11.2	
9-Apr-08	1	0	0	-1	-1	0	1	1	2	3	5	6	6	6	7	7	7	6	5	1	-2	-3	-4	2.5	7.1		
10-Apr-08	-3	-3	-3	-4	-4	-5	-5	-3	2	4	6	7	7	8	8	8	8	9	8	6	5	5	3	2	2.7	8.5	
11-Apr-08	2	3	3	3	2	2	0	1	4	6	7	8	8	9	9	10	10	10	10	8	4	1	-1	-1	5.1	10.4	
12-Apr-08	0	2	2	2	2	2	2	3	5	8	13	16	18	19	19	19	19	21	20	17	15	14	14	13	10.9	20.6	
13-Apr-08	12	12	11	11	8	5	5	6	7	7	6	7	8	9	10	10	11	11	10	9	7	6	5	4	8.2	12.1	
14-Apr-08	1	2	1	1	1	1	0	2	4	5	6	7	8	8	8	8	8	7	6	5	4	4	3	3	4.3	8.0	
15-Apr-08	3	3	2	2	1	1	1	2	2	3	5	6	7	7	8	8	8	8	8	7	6	5	4	3	4.6	8.4	
16-Apr-08	3	3	1	-1	-2	-3	1	4	7	9	10	11	12	12	12	12	12	12	12	11	10	9	9	9	7.3	12.3	
17-Apr-08	9	9	9	8	7	6	5	5	4	5	5	5	6	6	7	6	6	5	4	2	0	0	-1	-1	4.8	9.1	
18-Apr-08	-2	-4	-5	-6	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8	-7	-7	-7	-8	-8	-9	-10	-10	-11	-12	-7.7	-2.1	
19-Apr-08	-12	-12	-12	-12	-13	-13	-12	-12	-11	-10	-10	-9	-9	-8	-8	-8	-8	-8	-8	-8	-8	-9	-9	-9	-9.9	-7.7	
20-Apr-08	-9	-9	-10	-10	-10	-10	-10	-10	-9	-8	-7	-7	-7	-6	-6	-6	-6	-7	-6	-7	-7	-7	-7	-7	-7.9	-6.3	
21-Apr-08	-7	-7	-7	-7	-7	-7	-8	-8	-8	-7	-7	-7	-6	-6	-5	-5	-4	-4	-4	-3	-3	-3	-3	-3	-5.7	-3.2	
22-Apr-08	-4	-4	-4	-5	-6	-7	-7	-6	-5	-3	-2	-1	0	1	1	1	1	0	-1	-1	-2	-4	-5	-6	-3.0	1.5	
23-Apr-08	-7	-7	-8	-9	-10	-10	-10	-7	-5	-4	-3	-2	-2	-1	-1	-1	-2	-2	-3	-5	-6	-7	-8	-9	-5.4	-1.0	
24-Apr-08	-8	-8	-8	-8	-9	-10	-9	-7	-6	-5	-4	-2	-2	-2	-2	-1	-1	-2	-2	-3	-4	-5	-5	-6	-5.0	-1.5	
25-Apr-08	-6	-6	-6	-6	-6	-7	-6	-5	-3	-3	0	1	2	4	6	7	7	8	8	7	6	5	4	3	0.5	7.8	
26-Apr-08	2	1	-3	-4	-5	-5	-3	3	7	9	11	12	13	15	15	16	17	17	17	15	7	4	1	-1	6.8	17.0	
27-Apr-08	-2	-2	-2	-3	-3	-3	-2	3	7	9	11	13	13	15	18	18	17	17	17	14	13	11	9	8	8.2	17.9	
28-Apr-08	5	2	0	-1	-2	-2	0	6	9	12	15	17	18	19	19	19	19	18	17	16	15	12	11	12	10.6	19.4	
29-Apr-08	11	9	8	5	3	1	1	2	7	10	12	13	14	14	16	15	14	11	9	8	6	5	4	4	8.3	15.5	
30-Apr-08	3	3	2	2	3	3	2	2	2	3	4	4	5	4	3	2	2	2	2	3	3	2	2	2	2.8	4.9	
Hourly Avg	-0.4	-0.8	-1.3	-1.8	-2.4	-2.9	-2.7	-1.2	0.7	2.2	3.5	4.6	5.3	5.9	6.5	6.6	6.5	6.3	5.7	4.4	2.8	1.7	0.7	0.2			
Hourly Max	12.1	11.9	11.2	10.7	7.5	5.8	5.3	5.9	8.7	12.3	14.8	16.5	17.7	18.5	19.1	19.4	19.4	20.6	19.8	17.4	14.9	14.2	13.6	12.8			

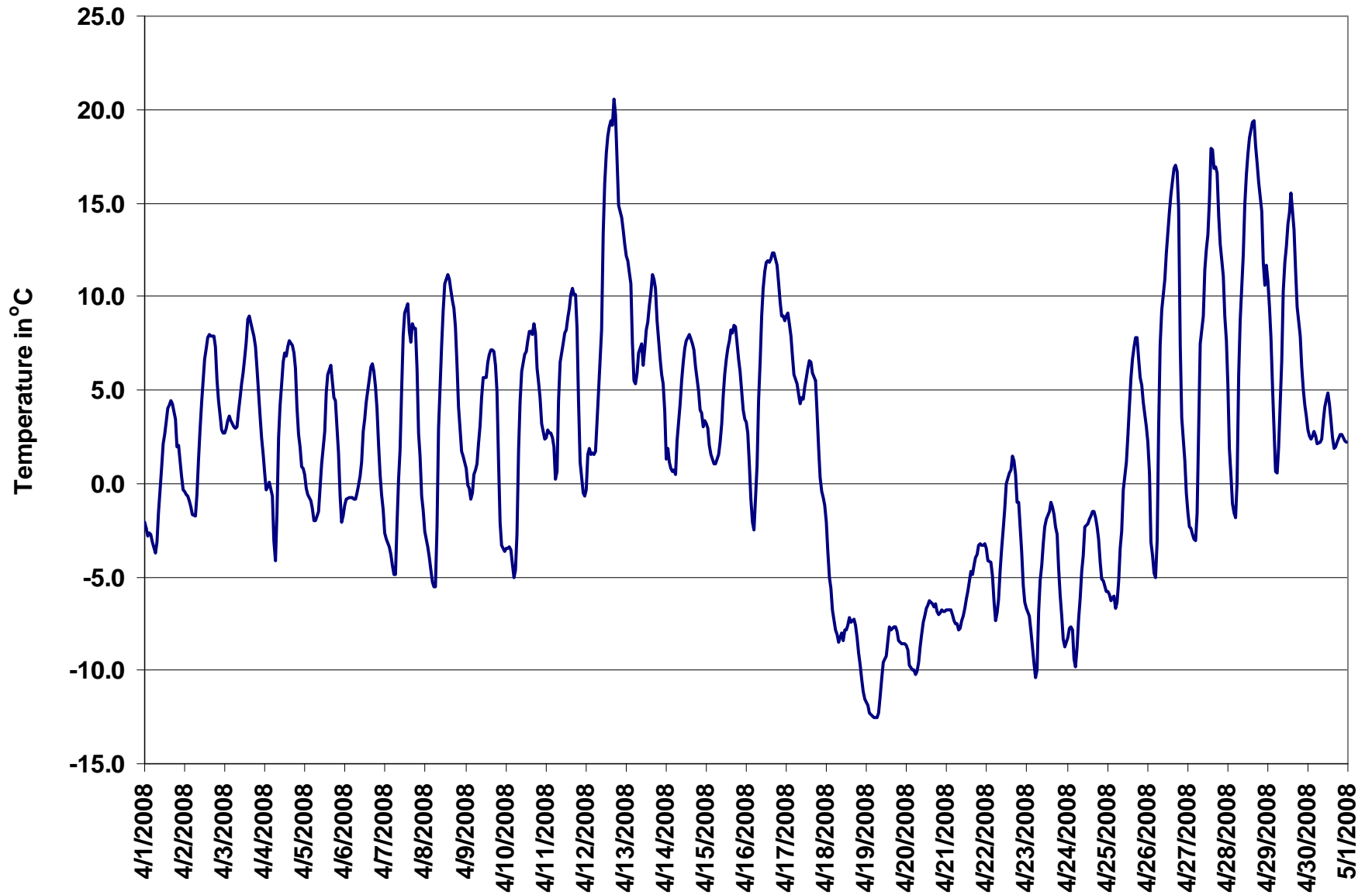


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

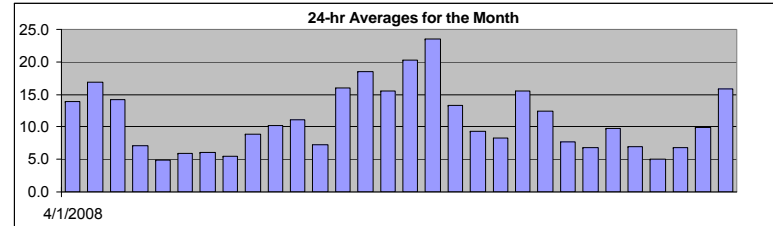
Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average: 37.2 km/hr 17-Apr 9:00 10:00				
Maximum 24-hr Value: 23.5 km/hr 17-Apr				

Calm Time: 0 hrs	0% calms	Operational Time: 720 hrs						
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%						
Percentile	99	95	75	50	25	5	1	AverageS
	31.1	23.5	14.8	10.3	5.5	2.8	2.4	11.1 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	12	13	12	13	14	12	10	11	16	19	19	18	15	15	16	16	16	16	15	8	6	14	15	15	12	13.9	19.1
2-Apr-08	13	15	15	13	12	9	9	12	18	21	21	19	19	17	19	20	20	18	19	19	21	21	17	20	16.9	20.7	
3-Apr-08	21	19	18	18	16	10	7	6	9	18	18	14	14	14	16	17	15	12	10	14	16	14	11	10	14.2	21.0	
4-Apr-08	6	5	6	8	5	3	3	3	5	13	12	10	12	10	11	8	7	7	6	6	7	6	3	6	7.1	13.2	
5-Apr-08	3	3	3	3	3	3	3	3	4	4	5	5	7	6	8	9	10	8	5	6	4	3	4	5	4.8	10.4	
6-Apr-08	6	6	6	6	5	5	4	4	4	5	5	5	6	8	10	11	10	9	7	6	4	4	4	3	5.9	11.0	
7-Apr-08	3	3	3	3	3	3	3	3	3	4	6	9	12	14	14	12	9	7	6	6	7	7	5	4	6.1	14.2	
8-Apr-08	2	2	3	4	3	3	3	2	3	4	4	7	7	9	9	9	8	6	5	4	7	14	9	8	5.5	13.8	
9-Apr-08	7	5	5	3	5	9	8	9	12	14	17	15	12	16	11	13	12	11	10	7	4	3	3	3	8.9	16.5	
10-Apr-08	3	3	3	4	3	3	3	3	5	12	11	14	11	13	15	15	16	16	19	19	17	13	12	10	10.2	19.5	
11-Apr-08	13	15	13	13	11	9	3	5	14	21	20	17	15	12	10	13	13	17	13	7	4	2	2	3	11.1	21.0	
12-Apr-08	3	4	5	3	3	3	4	5	4	5	7	15	16	12	14	13	5	9	10	7	5	6	7	6	7.2	15.9	
13-Apr-08	7	8	9	9	4	5	15	16	16	20	20	19	24	27	26	27	25	26	17	14	11	15	14	10	16.0	26.7	
14-Apr-08	7	10	9	12	10	12	10	11	19	23	20	24	25	23	25	27	26	25	26	22	20	20	15	21	18.5	27.0	
15-Apr-08	17	17	11	12	12	12	15	15	17	15	17	17	17	17	16	15	15	15	15	13	16	20	20	19	15.6	20.2	
16-Apr-08	18	15	9	5	3	3	12	18	24	23	26	29	31	30	26	30	29	33	29	23	17	17	21	17	20.3	32.9	
17-Apr-08	26	28	31	31	29	19	28	34	31	37	34	37	33	30	24	21	19	18	13	9	9	8	7	9	23.5	37.2	
18-Apr-08	12	12	14	14	14	13	12	12	13	14	14	14	14	15	15	15	12	13	12	11	12	12	13	12	13.3	15.3	
19-Apr-08	11	13	11	10	10	9	10	10	9	10	11	10	11	11	11	10	10	9	8	7	5	5	6	7	9.4	13.0	
20-Apr-08	10	12	10	9	7	6	8	7	8	8	9	10	9	11	10	9	9	7	8	6	6	5	6	9	8.3	12.0	
21-Apr-08	11	11	14	13	14	13	14	15	18	20	21	22	23	22	20	18	16	15	11	12	12	13	12	13	15.6	22.9	
22-Apr-08	13	10	12	14	14	13	15	13	17	18	17	20	15	17	16	14	14	11	10	7	4	5	3	5	12.4	20.2	
23-Apr-08	4	5	5	4	4	3	3	11	11	11	11	10	11	10	11	11	11	11	10	9	7	5	4	4	7.7	11.3	
24-Apr-08	4	4	4	7	6	4	5	7	10	10	10	9	11	9	9	6	8	8	7	7	7	5	5	4	6.8	10.6	
25-Apr-08	2	3	4	5	6	4	5	7	8	11	9	10	12	9	8	10	17	18	20	15	13	16	12	9	9.7	19.5	
26-Apr-08	7	5	3	3	2	4	4	3	4	6	12	13	15	15	13	12	12	11	8	4	3	3	3	2	7.0	15.5	
27-Apr-08	3	2	3	3	3	3	3	3	3	4	4	5	6	4	5	5	4	6	9	10	7	12	8	7	5.0	11.9	
28-Apr-08	5	3	3	3	3	2	3	3	4	6	6	6	9	10	10	10	10	11	12	10	10	5	6	14	6.8	14.1	
29-Apr-08	17	9	4	4	3	2	3	3	4	6	5	9	8	7	10	7	9	16	18	18	17	17	18	21	9.8	20.6	
30-Apr-08	19	19	17	17	18	19	18	19	16	19	21	16	12	13	14	12	13	14	15	15	15	14	12	12	15.8	20.7	
1-hr Average	9.5	9.3	8.8	9.0	8.2	7.3	8.1	9.2	11.0	13.4	13.7	14.3	14.3	14.1	14.1	13.9	13.4	13.4	12.2	10.6	9.9	10.1	9.3	9.5			
Hourly Max	26.0	28.3	30.6	31.2	29.2	18.8	27.8	34.2	30.8	37.2	33.8	36.8	33.2	29.9	26.5	30.2	29.2	32.9	28.8	22.7	20.7	20.7	20.7	20.8			

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

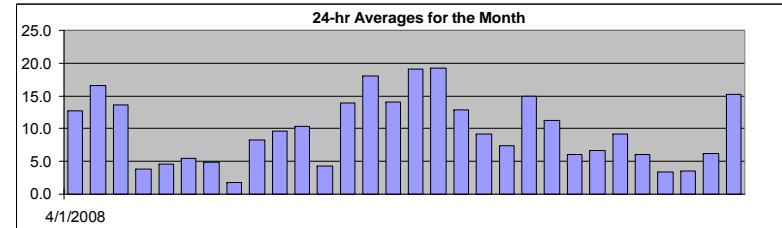
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	36.5	km/hr	17-Apr	9:00 10:00
Maximum 24-hr Value:	19.2	km/hr	17-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	30.8	23.0	14.4	9.9	5.0	1.6	0.5	35.1 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	12	13	12	13	14	12	10	11	16	19	19	17	14	13	15	16	15	15	8	6	13	15	15	12	12.7	18.9	
2-Apr-08	13	15	15	13	12	9	9	12	17	20	20	19	18	16	19	19	20	18	19	19	21	21	17	19	16.6	20.6	
3-Apr-08	21	19	18	18	16	9	6	6	9	18	18	13	13	14	16	17	15	12	10	14	16	14	11	10	13.7	20.9	
4-Apr-08	6	5	6	8	5	1	1	3	3	13	11	9	11	10	10	7	7	7	6	6	6	6	3	4	3.9	12.9	
5-Apr-08	3	3	2	3	3	2	3	2	4	2	3	4	6	5	7	8	10	7	5	5	4	2	4	5	4.6	10.2	
6-Apr-08	6	6	5	6	5	4	4	4	3	4	3	5	7	10	10	9	8	7	5	3	3	3	3	1	5.5	10.4	
7-Apr-08	2	3	2	1	1	1	1	2	3	4	5	8	10	13	11	9	9	7	5	6	7	7	5	3	4.8	12.9	
8-Apr-08	2	1	0	1	0	3	2	0	0	2	2	3	3	7	7	5	7	4	2	3	4	13	7	7	1.8	13.4	
9-Apr-08	7	5	5	2	5	9	8	9	12	14	16	15	11	10	10	12	10	10	10	7	3	2	3	3	8.2	16.0	
10-Apr-08	3	3	3	3	1	2	1	1	4	12	11	13	10	12	12	14	15	15	19	19	17	13	12	10	9.6	19.3	
11-Apr-08	12	15	13	13	11	9	1	4	14	21	19	16	14	11	9	12	12	17	13	7	3	1	2	2	10.3	20.7	
12-Apr-08	1	3	2	1	2	0	2	3	4	5	5	14	15	12	14	12	3	9	10	7	5	5	7	5	4.3	14.9	
13-Apr-08	7	8	9	4	4	4	14	16	15	19	19	19	23	26	26	26	24	26	17	14	11	15	13	10	14.0	26.3	
14-Apr-08	5	10	9	12	10	12	10	10	19	23	20	23	25	23	25	27	25	25	26	22	19	20	14	20	18.0	26.6	
15-Apr-08	17	16	11	12	12	12	15	15	16	14	16	15	16	15	15	14	13	14	14	13	16	20	20	19	14.1	20.1	
16-Apr-08	18	15	8	5	1	0	12	18	24	22	26	28	31	29	26	30	29	33	29	23	17	16	21	16	19.1	32.5	
17-Apr-08	26	28	30	31	29	19	27	34	30	37	33	36	33	29	23	20	18	17	12	9	9	8	6	9	19.2	36.5	
18-Apr-08	12	12	14	14	14	13	12	12	12	14	13	13	14	14	15	14	12	13	12	11	12	12	13	12	12.9	14.7	
19-Apr-08	11	13	11	10	10	9	10	10	9	10	11	9	10	10	10	10	10	9	7	6	5	5	6	7	9.2	12.7	
20-Apr-08	10	12	10	9	7	6	7	7	8	8	9	10	8	10	10	9	9	6	8	5	6	5	6	9	7.5	11.8	
21-Apr-08	11	11	14	13	13	13	14	14	18	20	21	22	23	22	20	18	16	15	10	11	11	13	12	13	15.0	22.8	
22-Apr-08	12	10	12	14	14	12	15	13	16	17	17	20	15	16	15	13	13	10	9	7	3	4	3	3	11.3	19.9	
23-Apr-08	4	5	4	4	4	2	2	10	11	11	10	9	10	9	11	10	10	10	10	9	7	5	4	4	6.0	10.7	
24-Apr-08	4	3	4	7	6	4	5	7	9	9	8	10	8	8	5	7	8	6	6	6	5	4	4	4	6.7	9.7	
25-Apr-08	2	2	4	5	5	4	5	7	8	11	8	9	12	8	7	10	17	18	19	14	13	16	12	9	9.2	19.4	
26-Apr-08	7	5	1	1	1	4	4	3	3	5	11	13	15	14	12	11	12	11	8	4	2	2	2	2	6.0	14.9	
27-Apr-08	1	1	2	2	2	1	2	2	3	3	3	3	5	2	3	2	4	6	9	10	7	12	8	7	3.4	11.7	
28-Apr-08	3	1	2	1	3	0	2	2	3	4	4	3	6	7	9	9	10	11	11	9	10	5	5	13	3.6	13.0	
29-Apr-08	16	9	2	4	1	1	1	2	4	5	4	8	7	5	9	6	3	16	18	18	17	17	18	20	6.2	20.4	
30-Apr-08	19	18	17	17	18	19	18	18	16	19	20	15	11	13	13	12	13	14	15	15	15	14	12	12	15.2	20.5	
1-hr Vector	5.0	4.4	4.0	4.6	4.3	4.2	4.4	4.8	6.7	8.3	9.3	9.9	9.6	8.8	7.9	7.8	7.0	7.0	6.0	4.8	4.5	4.9	4.6	5.3			
Hourly Max	25.8	28.1	30.4	30.9	28.9	18.7	27.4	33.7	30.4	36.5	33.4	36.5	32.6	29.4	26.1	29.7	28.9	32.5	28.6	22.5	20.6	20.5	20.6	20.5			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	348.3	332.8	275.9	252.3	79.6	32.0	11.6	285 deg

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	WD Sector	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	229	228	230	239	243	245	252	257	265	274	278	286	326	301	278	283	283	278	286	255	265	253	252	250	266	W	
2-Apr-08	249	248	251	254	260	271	271	266	272	268	276	281	276	294	283	277	265	263	263	262	259	264	251	253	266	W	
3-Apr-08	250	253	256	258	264	308	304	261	280	282	277	285	284	280	279	278	280	281	278	271	264	251	249	247	270	W	
4-Apr-08	253	265	266	260	291	296	153	45	328	280	285	299	339	360	344	1	40	54	45	49	63	76	53	320	332	NNW	
5-Apr-08	359	47	43	50	81	55	52	39	40	69	98	65	58	76	62	53	55	72	76	83	103	57	54	62	62	ENE	
6-Apr-08	63	66	72	73	69	72	93	99	63	117	136	134	58	54	62	60	66	68	84	84	111	122	63	97	78	ENE	
7-Apr-08	53	259	266	282	212	275	259	216	220	209	293	275	287	284	244	219	186	203	249	232	210	202	200	218	241	WSW	
8-Apr-08	191	197	341	304	290	212	286	293	45	164	233	229	303	58	71	20	327	92	89	73	259	326	327	286	330	NNW	
9-Apr-08	263	253	258	263	265	267	272	276	267	275	282	292	284	304	305	287	278	306	303	301	232	211	200	207	280	W	
10-Apr-08	220	221	193	212	281	289	185	171	236	265	274	255	252	254	264	254	240	271	271	271	261	247	235	227	254	WSW	
11-Apr-08	240	248	243	245	252	249	300	214	252	265	281	285	280	292	290	263	273	247	262	267	235	134	235	216	261	W	
12-Apr-08	171	208	143	144	189	307	28	205	211	213	255	267	260	234	242	235	138	155	143	117	128	142	171	169	206	SSW	
13-Apr-08	185	177	179	288	333	325	329	318	291	274	271	262	266	265	260	260	260	265	273	284	277	247	250	236	267	W	
14-Apr-08	278	235	238	234	236	244	252	261	255	263	273	279	270	275	272	272	269	272	268	264	264	255	243	256	263	W	
15-Apr-08	267	271	277	276	279	272	266	272	276	287	288	312	315	315	317	314	322	283	276	251	244	246	246	243	279	W	
16-Apr-08	237	230	206	192	134	230	243	252	259	268	287	279	276	272	276	273	275	264	269	273	258	241	250	247	263	W	
17-Apr-08	254	254	253	250	254	255	253	255	266	267	274	270	277	275	284	290	304	314	29	45	39	29	21	34	273	W	
18-Apr-08	28	39	32	32	42	35	25	13	17	30	12	33	30	31	32	30	29	39	52	61	62	63	49	53	36	NE	
19-Apr-08	54	48	45	45	36	38	50	55	55	37	37	30	38	32	43	47	59	65	51	54	28	28	24	33	44	NE	
20-Apr-08	35	51	56	56	44	48	38	44	39	32	34	39	26	35	32	34	32	351	343	316	335	360	347	331	27	NNE	
21-Apr-08	335	339	340	337	333	331	332	334	332	332	334	336	336	332	337	334	341	340	353	9	16	26	21	12	342	NNW	
22-Apr-08	11	17	346	340	336	317	329	321	330	315	332	336	337	329	333	321	309	314	301	273	275	252	228	251	326	NW	
23-Apr-08	269	271	310	306	307	348	321	63	66	75	55	53	56	58	59	63	63	69	75	74	87	73	57	54	56	NE	
24-Apr-08	68	62	41	47	51	55	49	63	69	59	63	63	48	52	54	47	53	52	50	67	66	71	69	68	57	ENE	
25-Apr-08	125	161	227	247	275	275	274	259	256	254	244	272	280	273	278	275	270	265	259	251	245	254	242	245	259	W	
26-Apr-08	257	268	50	250	54	222	222	269	244	230	264	272	280	272	283	285	283	286	277	250	179	206	199	342	269	W	
27-Apr-08	297	2	220	241	217	213	348	273	285	264	172	274	352	351	254	14	7	341	324	325	304	274	265	256	295	WNW	
28-Apr-08	316	106	209	202	254	257	33	256	265	133	173	196	175	180	152	120	106	77	92	98	94	96	97	230	138	SE	
29-Apr-08	233	234	254	204	305	7	278	173	234	28	337	333	4	8	49	44	217	256	250	246	256	258	261	264	264	W	
30-Apr-08	263	263	255	254	257	256	254	264	265	271	274	280	300	323	306	291	277	276	275	277	269	269	268	272	271	W	
Hourly Avg	264	260	265	271	282	286	293	283	284	282	290	293	302	304	302	298	294	289	288	282	266	263	259	261			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	89.4	72.0	27.4	15.8	10.4	5.9	4.7

Status Flag Characters

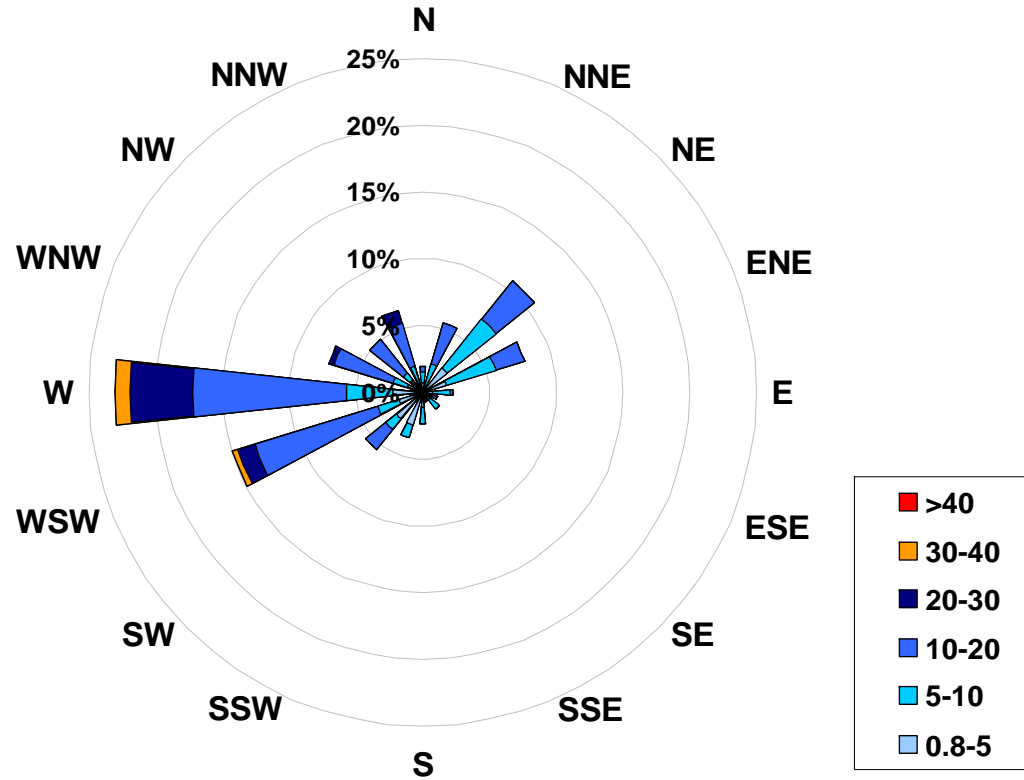
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	3	3	4	5	5	4	5	8	7	10	9	22	18	30	22	16	15	12	19	20	8	6	5	5		30.2	
2-Apr-08	6	6	5	5	9	8	7	7	8	7	9	13	14	18	12	14	10	12	8	5	5	7	9	5		18.4	
3-Apr-08	5	5	5	5	5	24	18	13	13	13	12	21	19	20	18	15	11	11	13	7	7	8	7	7		24.4	
4-Apr-08	11	11	10	7	23	75	66	33	51	13	18	33	23	26	23	30	24	15	16	15	12	12	31	35		75.4	
5-Apr-08	26	23	42	30	29	26	44	54	30	71	65	35	25	43	27	22	12	19	19	18	19	51	15	14		70.6	
6-Apr-08	9	11	15	14	16	28	32	42	45	59	51	69	51	24	19	22	20	16	15	13	40	42	31	83		83.2	
7-Apr-08	71	26	43	68	90	64	68	64	31	25	41	24	28	22	45	43	18	14	29	27	8	11	10	30		89.5	
8-Apr-08	58	87	82	92	97	27	48	94	92	83	69	76	72	39	35	54	29	56	76	38	80	15	39	19		96.8	
9-Apr-08	16	18	17	51	21	9	9	9	9	12	16	20	24	51	28	23	28	24	18	13	51	32	19	15		51.2	
10-Apr-08	11	12	19	50	63	55	66	80	52	12	19	18	20	26	37	27	26	19	10	8	7	13	6	6		80.2	
11-Apr-08	11	5	5	6	7	28	63	72	14	11	11	16	22	22	24	21	25	13	15	12	34	76	44	34		76.5	
12-Apr-08	76	56	80	80	51	93	77	69	25	13	45	17	20	20	20	15	58	23	16	13	17	15	20	16		93.3	
13-Apr-08	10	10	6	64	28	25	23	14	19	12	17	8	9	10	10	12	13	9	14	9	11	7	8	12		64.4	
14-Apr-08	54	16	19	8	20	8	6	13	7	12	11	12	14	12	12	10	9	11	8	6	7	6	9	10		54.1	
15-Apr-08	7	11	8	11	8	7	7	10	13	18	18	20	20	20	21	22	26	20	15	10	8	6	6	5		26.4	
16-Apr-08	6	4	12	19	65	91	13	7	6	10	10	12	8	10	11	11	9	8	7	7	12	7	6	12		90.6	
17-Apr-08	6	6	7	8	7	6	10	10	9	11	10	8	10	10	16	18	16	18	16	13	11	11	16	13		18.1	
18-Apr-08	11	12	12	10	9	11	15	16	19	17	21	19	15	15	17	16	19	13	13	13	10	14	11	12		21.2	
19-Apr-08	13	13	10	11	12	13	17	14	14	20	16	22	19	20	18	19	16	17	19	16	18	14	14	13		21.9	
20-Apr-08	8	12	15	12	14	12	14	16	14	29	16	17	21	14	13	17	18	35	15	20	16	20	19	11		34.8	
21-Apr-08	9	8	9	7	8	9	9	9	8	9	8	8	7	8	10	9	11	11	19	16	15	11	15	14		18.5	
22-Apr-08	15	18	12	8	10	13	9	14	12	14	12	10	18	18	18	20	21	28	23	28	46	20	27	53		53.0	
23-Apr-08	25	13	34	21	23	48	57	13	16	20	28	24	22	34	23	28	22	19	17	13	14	14	8	7		56.9	
24-Apr-08	14	16	8	12	10	14	10	18	16	22	24	31	27	31	32	41	29	23	24	25	12	9	9	12		41.0	
25-Apr-08	39	45	13	11	14	13	19	11	24	12	22	24	16	25	33	23	10	9	7	7	5	6	8	5		45.2	
26-Apr-08	16	20	81	70	59	41	46	24	41	35	20	14	16	15	21	22	21	16	10	28	54	29	27	47		80.7	
27-Apr-08	78	77	72	52	75	84	37	64	37	25	64	63	29	61	68	78	25	16	16	16	21	10	11	12		84.1	
28-Apr-08	60	70	61	85	36	90	66	46	42	73	57	70	57	51	31	29	22	17	15	19	11	27	51	24		90.2	
29-Apr-08	7	6	85	28	82	79	75	52	40	38	55	26	37	50	33	34	89	9	8	8	10	8	8	8		88.7	
30-Apr-08	7	8	8	7	6	7	7	7	7	8	8	11	13	12	13	14	8	8	8	9	8	8	8	10		14.0	

Hourly Max	78	87	85	92	97	93	77	94	92	83	69	76	72	61	68	78	89	56	76	38	80	76	51	83
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	152
5	to	10	185
10	to	20	319
20	to	30	53
30	to	40	11
	>	40	0
Total Non-Zero Values			720

PASZA
Smoky Heights Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

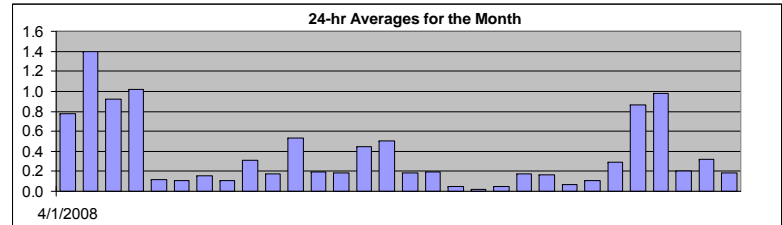
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	6.9	ppb	2-Apr	4:00 5:00
Maximum 24-hr Average:	1.4	ppb	2-Apr	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.7	0.3	0.1	0.1	0.0	0.0	0.4 ppb	0.1 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	1	0	1	1	0	0	0	2	3	3	2	1	0	0	0	0	A	0	0	0	0	0	0	0	0.8	2.8
2-Apr-08	2	1	3	1	7	3	1	2	3	2	1	1	0	0	0	A	0	0	0	0	0	0	2	2	1.4	6.9
3-Apr-08	3	0	1	3	2	1	0	0	0	1	0	1	0	0	A	0	0	0	0	0	1	0	0	5	0.9	5.3
4-Apr-08	2	6	1	1	4	1	1	1	2	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	1.0	5.8
5-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Apr-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
7-Apr-08	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
8-Apr-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
9-Apr-08	0	0	0	0	0	0	1	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
10-Apr-08	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.2	0.6
11-Apr-08	1	2	2	1	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.0
12-Apr-08	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
14-Apr-08	1	2	2	A	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.4	1.9
15-Apr-08	2	5	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.4
16-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	1.0
17-Apr-08	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	1.1
18-Apr-08	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
19-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
20-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
21-Apr-08	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
22-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.5
23-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
24-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
25-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3	0.3	2.5
26-Apr-08	2	1	1	A	5	3	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.9	5.1
27-Apr-08	0	0	A	0	0	0	0	0	1	2	3	4	3	2	1	1	1	1	1	1	0	0	0	0	1.0	3.9
28-Apr-08	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
29-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	A	0.3	2.0
30-Apr-08	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.9
Hourly Avg	0.6	0.7	0.4	0.4	0.8	0.5	0.3	0.3	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.4		
Hourly Max	2.9	5.8	2.7	2.9	6.9	3.3	1.4	2.2	3.1	2.8	2.3	2.6	3.9	3.0	1.7	0.8	0.7	0.7	1.3	2.0	1.6	0.5	2.2	5.3		

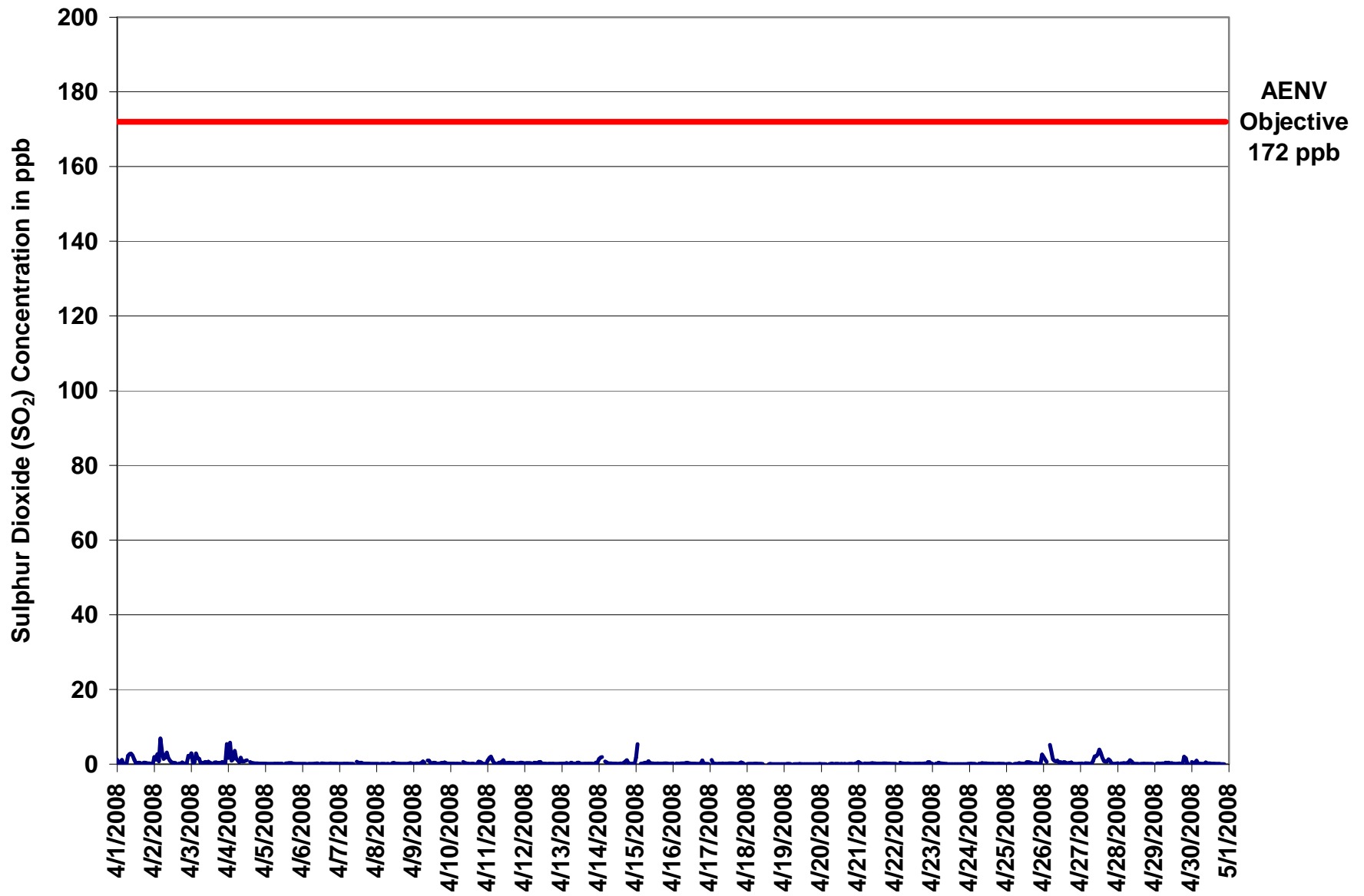


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

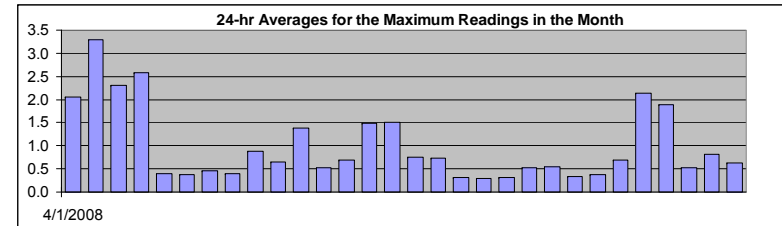
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	22.9	ppb	4-Apr	1:00 2:00
Maximum 24-hr Value:	3.3	ppb	2-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.7	4.0	0.8	0.4	0.3	0.3	0.2	1.0 ppb	0.4 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	7	0	1	3	0	0	1	7	6	5	4	3	1	1	1	A	2	1	1	0	1	0	0	2.0	7.4	
2-Apr-08	10	3	9	2	11	5	3	2	6	2	2	1	1	1	1	A	1	0	1	0	0	2	5	8	3.3	11.4
3-Apr-08	8	0	4	4	3	3	1	1	1	2	1	2	1	1	A	1	1	1	1	1	2	0	4	14	2.3	14.0
4-Apr-08	3	23	2	4	6	2	3	2	4	1	1	1	1	A	1	1	1	0	1	1	0	0	0	0	2.6	22.9
5-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	0	1	0	0	0	0	0	0	0.4	0.6
6-Apr-08	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
7-Apr-08	0	0	0	0	0	1	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0.5	1.0
8-Apr-08	0	0	0	0	0	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0.4	0.7
9-Apr-08	0	0	0	0	1	1	2	1	A	2	2	1	1	1	1	1	0	1	1	1	1	1	0	0	0.9	2.4
10-Apr-08	0	0	0	0	0	0	0	A	1	1	0	0	0	0	1	1	0	0	2	2	2	0	0	0	0.6	2.0
11-Apr-08	4	5	4	3	0	0	A	1	2	1	2	1	1	1	1	1	1	1	0	1	1	1	1	0	1.4	4.9
12-Apr-08	0	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3
13-Apr-08	0	0	0	2	A	1	1	0	1	0	2	1	0	0	0	0	0	1	0	0	0	0	2	2	0.7	2.2
14-Apr-08	4	8	9	A	2	1	0	0	1	0	0	0	0	0	1	0	1	1	2	1	0	0	0	0	1.5	8.6
15-Apr-08	5	18	A	0	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1.5	17.7
16-Apr-08	1	A	0	0	1	0	0	1	2	1	1	1	0	0	0	0	1	1	2	3	0	0	0	0	0.8	3.1
17-Apr-08	A	4	0	0	0	0	1	0	1	0	0	0	1	1	1	1	0	0	0	1	1	1	0	A	0.7	4.3
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0.3	0.5
19-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
20-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
21-Apr-08	2	1	0	A	0	0	0	0	0	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0.5	1.9
22-Apr-08	0	0	A	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	2	0	0.5	1.5
23-Apr-08	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
24-Apr-08	0	0	0	0	0	A	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
25-Apr-08	0	0	0	0	A	0	1	0	1	0	0	0	0	0	1	1	1	0	1	1	0	0	0	4	0.7	4.2
26-Apr-08	4	4	1	A	8	9	3	3	3	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	2.1	9.4
27-Apr-08	0	1	A	1	1	0	0	0	2	3	3	4	5	4	3	1	1	1	5	5	1	0	0	0	1.9	5.3
28-Apr-08	1	A	1	0	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8
29-Apr-08	A	0	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	5	4	0	A	0	0.8	4.6
30-Apr-08	2	1	2	2	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0.6	1.7
Hourly Avg	2.0	2.7	1.4	1.0	1.5	1.1	0.8	1.0	1.3	1.1	0.9	0.9	0.7	0.7	0.6	0.5	0.5	0.6	0.8	0.9	0.7	0.5	0.8	1.3		
Hourly Max	9.6	22.9	9.4	4.4	11.4	9.4	3.1	7.4	5.8	5.0	4.0	4.4	4.9	4.5	3.0	1.4	1.0	2.2	5.3	4.7	4.0	1.9	5.3	14.0		

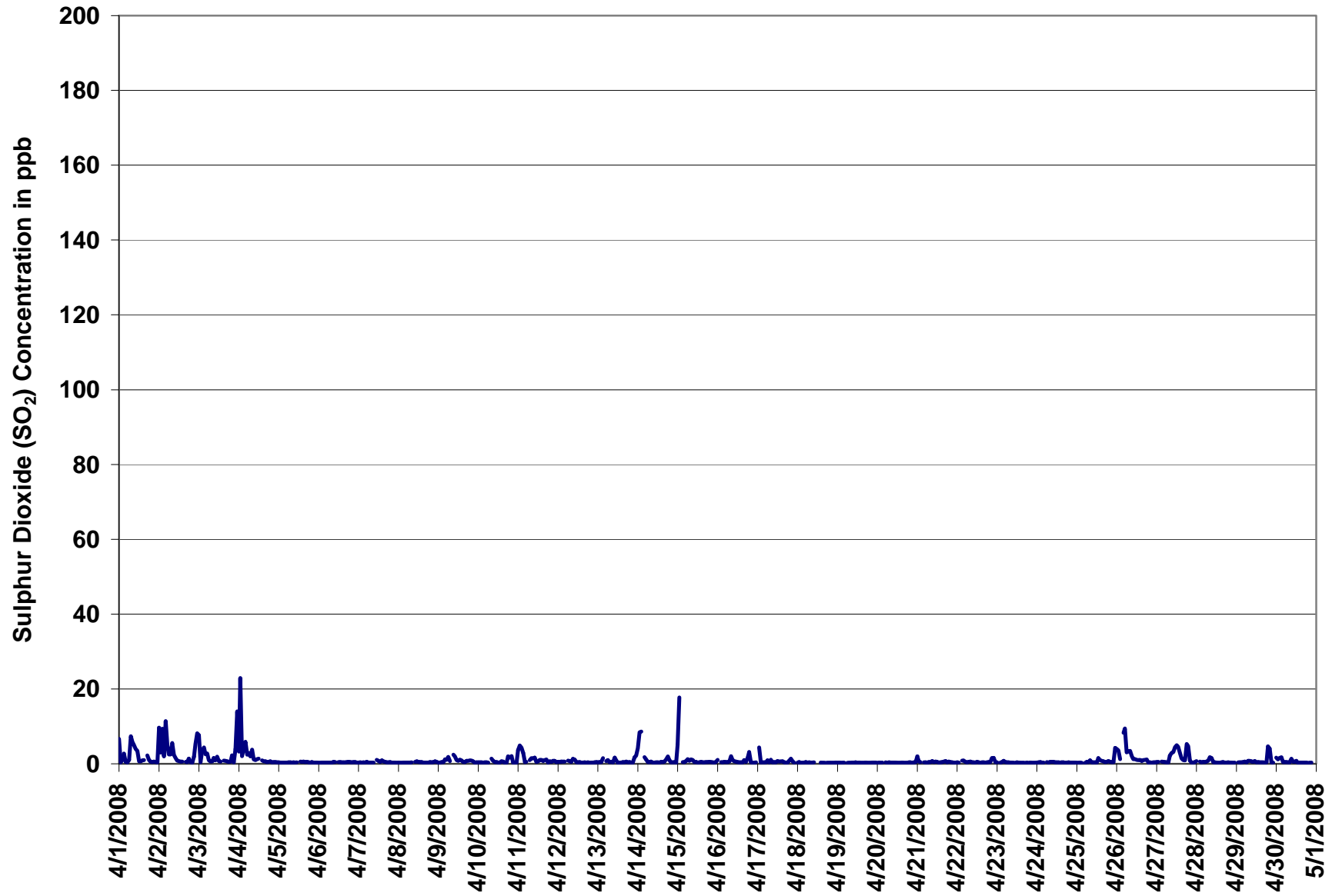
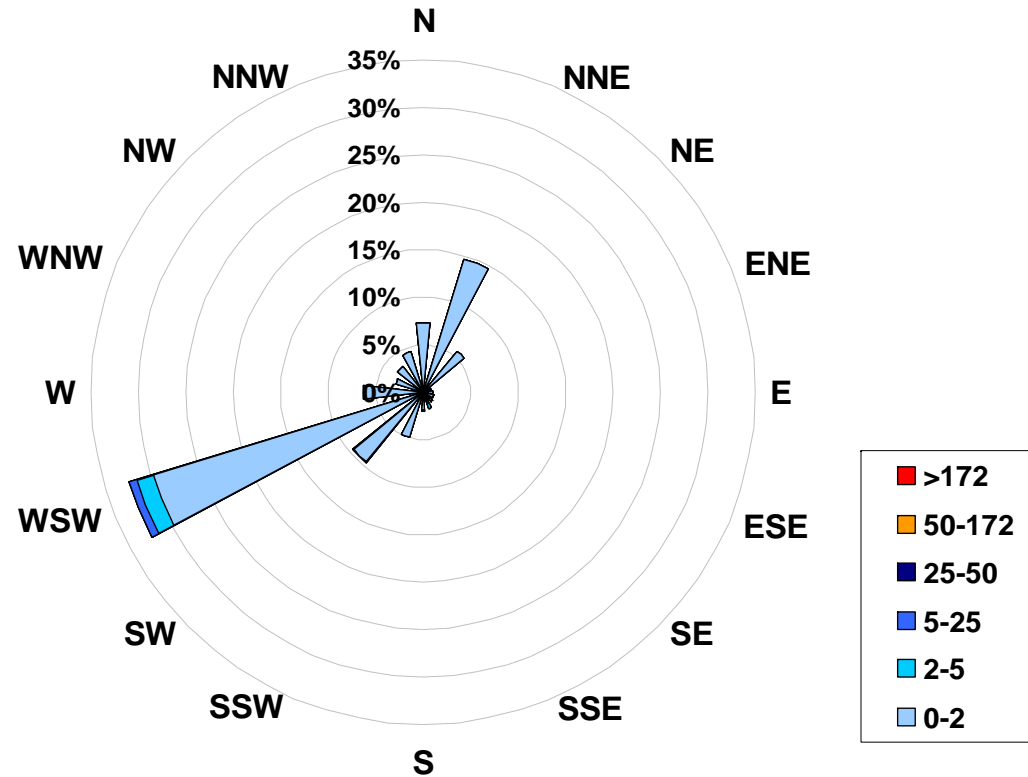


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	662
2	to	5	19
5	to	25	5
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			686

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

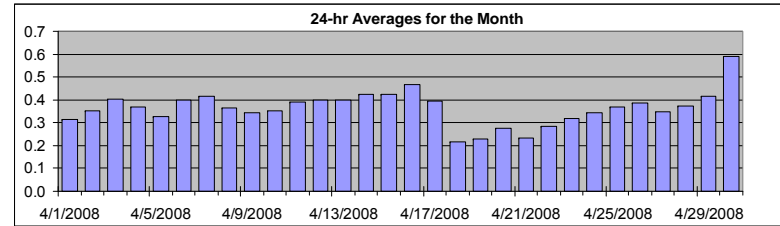
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb

Maximum 1-hr Average:	0.8	ppb	15-Apr	23:00 0:00
Maximum 24-hr Value:	0.6	ppb	30-Apr	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.5	0.4	0.4	0.3	0.2	0.2	0.4 ppb	0.4 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.4
2-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.5
3-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.4	0.5
4-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
5-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
6-Apr-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.5
7-Apr-08	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
8-Apr-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
9-Apr-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
10-Apr-08	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
11-Apr-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
12-Apr-08	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
14-Apr-08	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.4	0.6
15-Apr-08	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.4	0.8
16-Apr-08	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.5	0.6
17-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5
18-Apr-08	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
19-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
20-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
21-Apr-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
22-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
23-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
24-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
25-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.4	0.5
26-Apr-08	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
27-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
28-Apr-08	0	A	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
29-Apr-08	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0.4	0.8
30-Apr-08	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	0	0.6	0.7
Hourly Avg	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hourly Max	0.6	0.5	0.5	0.5	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8

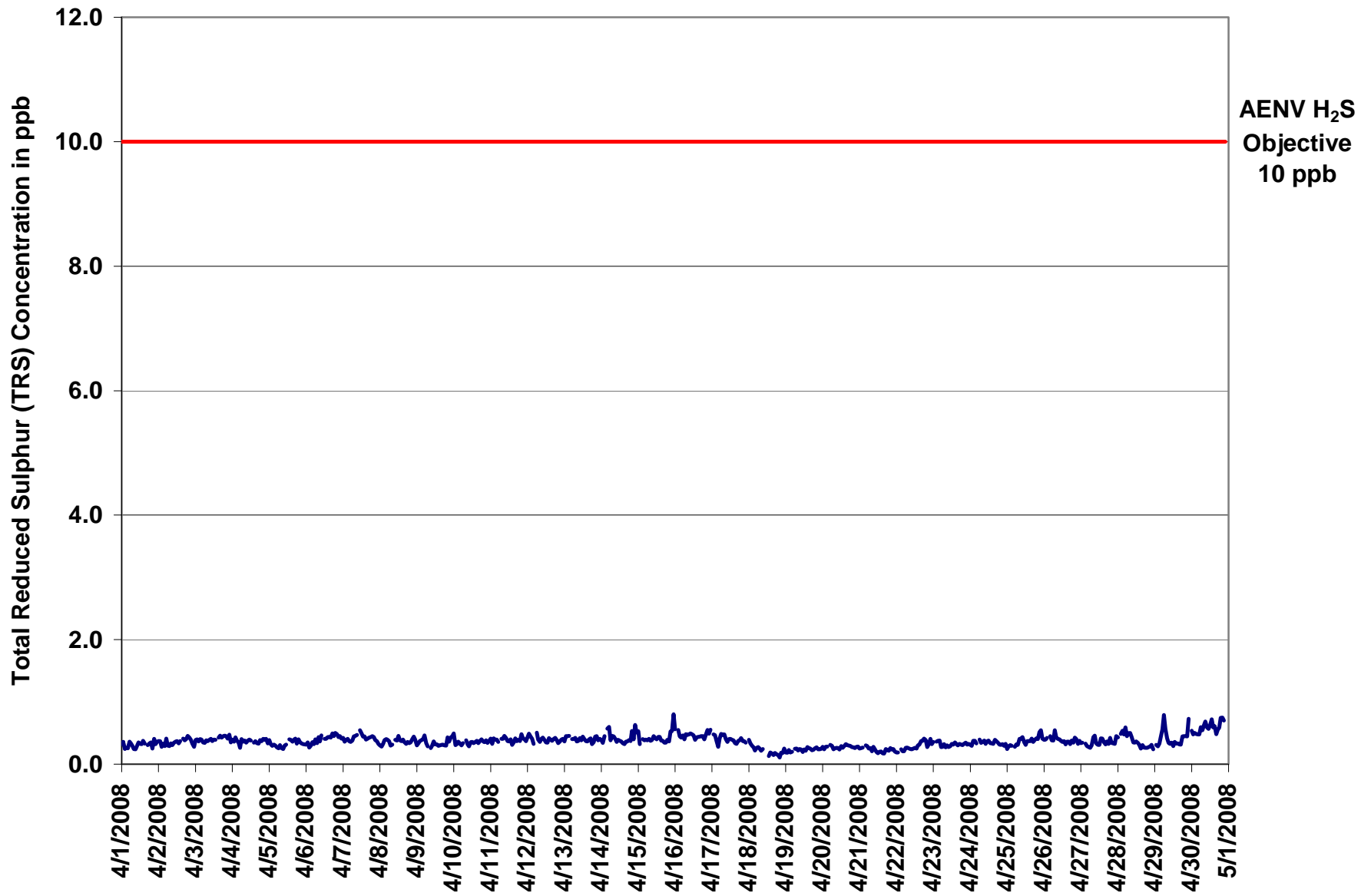


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

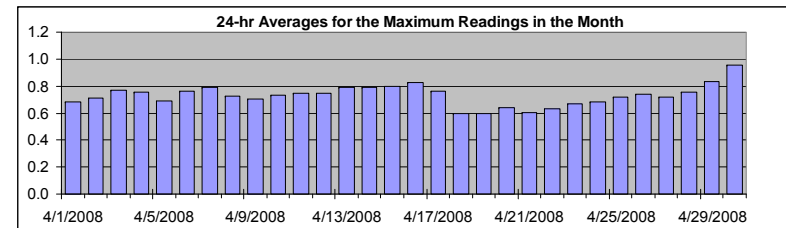
Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	1.3	ppb	14-Apr	5:00 6:00
Maximum 24-hr Value:	1.0	ppb	30-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.7 ppb	0.7 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.8
2-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.8
3-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	0.9
4-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.8	1.0
5-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
6-Apr-08	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
7-Apr-08	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
8-Apr-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
9-Apr-08	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
10-Apr-08	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
11-Apr-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
12-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
13-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
14-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
15-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
16-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
17-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1
18-Apr-08	1	1	1	1	1	1	1	1	1	1	C	C	A	1	0	0	0	1	1	1	1	1	0	1	0.6	0.8
19-Apr-08	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
20-Apr-08	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
21-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
22-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
23-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
24-Apr-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
25-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
26-Apr-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
27-Apr-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
28-Apr-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
29-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.3
30-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.2
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7		
Hourly Max	1.0	1.1	1.0	1.0	1.0	1.3	1.3	1.0	1.0	1.1	0.9	1.0	1.1	1.2	0.9	1.0	0.9	0.9	1.2	1.0	1.1	1.0	1.1	1.2		

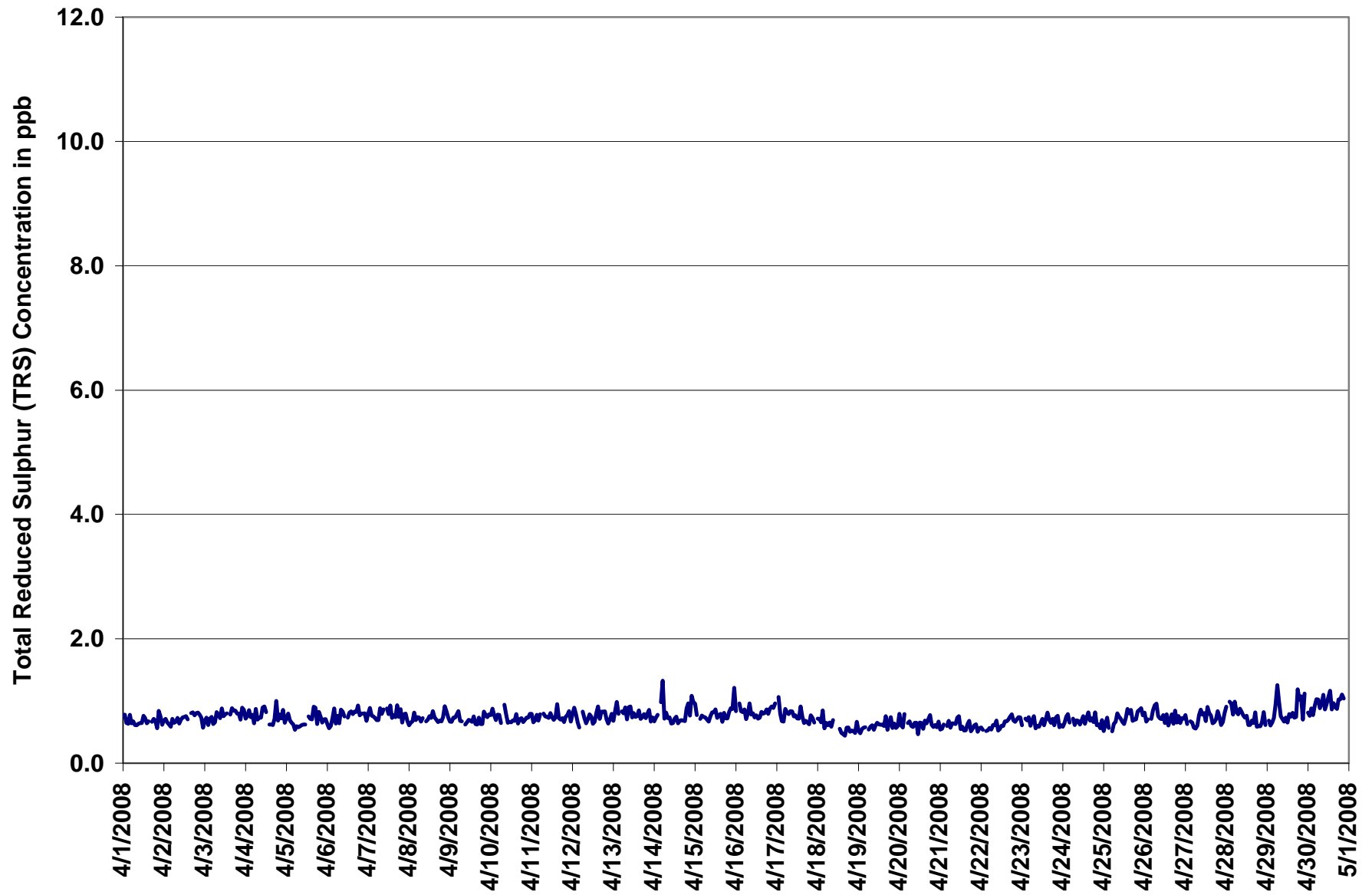
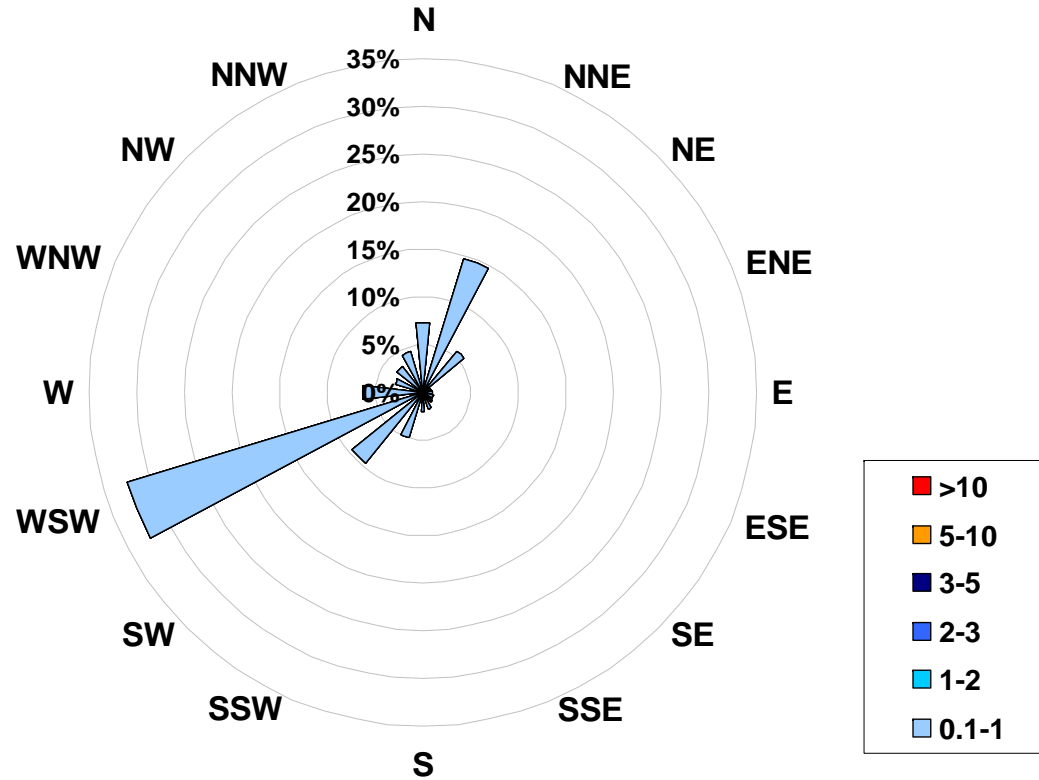


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for April 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	686
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			686

PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

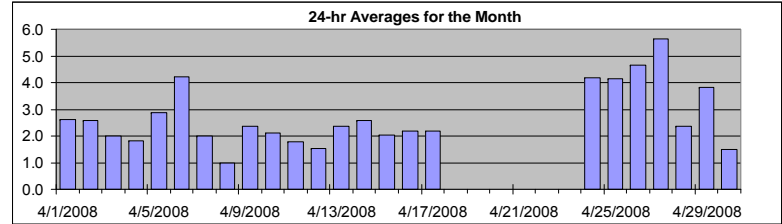
Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Draft Objective Limit: Alberta Environment: 1-hr - µg/m³ 24-hr 30 µg/m³
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	23.5 µg/m ³ 2-Apr 18:00 19:00
Maximum 24-hr Value:	5.7 µg/m ³ 27-Apr

AIC Time:	0 hrs	Operational Time:	594 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	83.6%
Percentile	99	95	75
	12.1	6.1	3.7
	50	25	10
	2.3	1.0	0.0
	5	1	0.0
	0.0	0.0	0.0
	Average / Median		2.7
	2 µg/m ³		2.5 µg/m ³



Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Apr-08	1	1	0	1	0	1	2	2	3	3	3	0	1	4	3	1	5	1	6	8	9	3	2	1	2.6	9.3		
2-Apr-08	1	0	1	1	2	1	2	3	4	4	2	2	1	0	2	1	2	3	23	2	1	2	1	1	2.6	23.5		
3-Apr-08	1	0	3	2	1	5	5	1	2	0	2	1	0	3	4	2	1	6	1	2	2	2	2	2	2.0	5.5		
4-Apr-08	1	2	2	1	1	1	1	3	3	3	0	2	1	3	1	2	2	1	4	3	3	2	1	1	0	1.8	3.6	
5-Apr-08	1	1	0	2	3	3	2	5	6	4	4	4	3	3	2	2	3	4	4	3	3	4	1	2	2.9	6.4		
6-Apr-08	3	3	2	3	2	3	3	4	4	4	4	5	5	4	5	4	5	5	6	5	6	5	9	3	4.2	9.4		
7-Apr-08	4	2	4	6	3	8	1	2	2	4	3	0	0	0	0	1	3	0	4	1	0	0	0	0	2.0	7.7		
8-Apr-08	0	0	0	0	0	1	1	2	1	0	0	1	0	0	0	0	0	6	1	2	3	2	2	2	1.0	5.7		
9-Apr-08	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	3	6	6	11	13	7	6	2.3	12.8		
10-Apr-08	3	2	3	3	2	3	6	5	1	1	1	1	1	0	2	3	0	0	2	3	2	3	1	1	2.1	5.5		
11-Apr-08	1	1	2	2	2	2	3	2	1	1	1	0	1	2	2	2	1	4	2	3	6	1	1	1	1.8	5.9		
12-Apr-08	4	0	3	0	1	3	3	1	1	4	4	1	2	1	0	2	6	0	0	0	0	0	0	0	1.5	5.5		
13-Apr-08	0	0	0	1	3	9	0	0	0	1	1	0	2	1	0	0	1	1	5	5	13	5	5	3	2.4	12.7		
14-Apr-08	4	6	2	4	5	7	3	2	1	0	0	0	0	1	4	3	1	0	2	6	3	3	2	3	2.6	6.9		
15-Apr-08	3	3	2	2	3	3	1	1	0	1	0	2	3	2	3	0	3	1	3	6	5	0	1	1	2.0	5.6		
16-Apr-08	1	1	1	1	2	0	4	7	4	0	0	1	1	3	2	4	3	5	2	3	4	2	2	3	2.2	7.0		
17-Apr-08	2	1	1	2	2	1	4	2	5	0	0	1	3	2	2	5	9	4	0	0	3	0	0	3	2.2	9.2		
18-Apr-08	1	1	2	1	2	3	7	4	0	1	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	6.9	6.9	
19-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
20-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
21-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
22-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
23-Apr-08	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	C	0	1	1	1	1	1	2	3	3	2.6	2.6
24-Apr-08	2	5	4	2	5	8	7	4	3	6	3	2	1	3	2	2	3	3	3	3	3	4	5	10	10	4.2	10.4	
25-Apr-08	3	2	4	2	4	3	5	4	4	4	4	3	2	3	2	3	3	5	6	6	7	6	7	6	4.2	7.0		
26-Apr-08	5	5	5	5	6	5	6	5	4	4	5	4	5	4	4	4	4	4	4	4	4	5	5	5	5	4.7	5.8	
27-Apr-08	5	4	4	4	3	4	5	4	4	5	4	4	4	5	4	4	5	5	23	18	6	4	5	3	5.7	23.1		
28-Apr-08	3	3	2	3	2	2	3	4	5	3	1	2	2	1	1	1	3	2	1	2	3	2	2	3	2.4	5.2		
29-Apr-08	4	5	4	4	4	4	8	12	3	1	0	0	2	1	1	2	6	5	13	6	5	1	1	0	3.8	12.8		
30-Apr-08	0	1	0	0	0	1	3	1	0	2	2	3	3	2	2	2	2	2	2	2	2	1	1	2	1	1.5	3.1	
Hourly Avg	2.2	2.0	2.0	2.1	2.4	3.2	3.4	3.2	2.6	2.3	1.9	1.7	2.0	1.8	2.1	2.1	2.8	2.7	5.1	3.9	4.1	2.9	2.9	2.5				
Hourly Max	5.2	6.0	4.9	5.7	5.8	9.0	8.3	12.0	6.4	5.7	5.2	5.3	4.7	5.3	4.7	5.1	9.2	5.7	23.5	18.4	12.7	12.8	10.4	10.3				

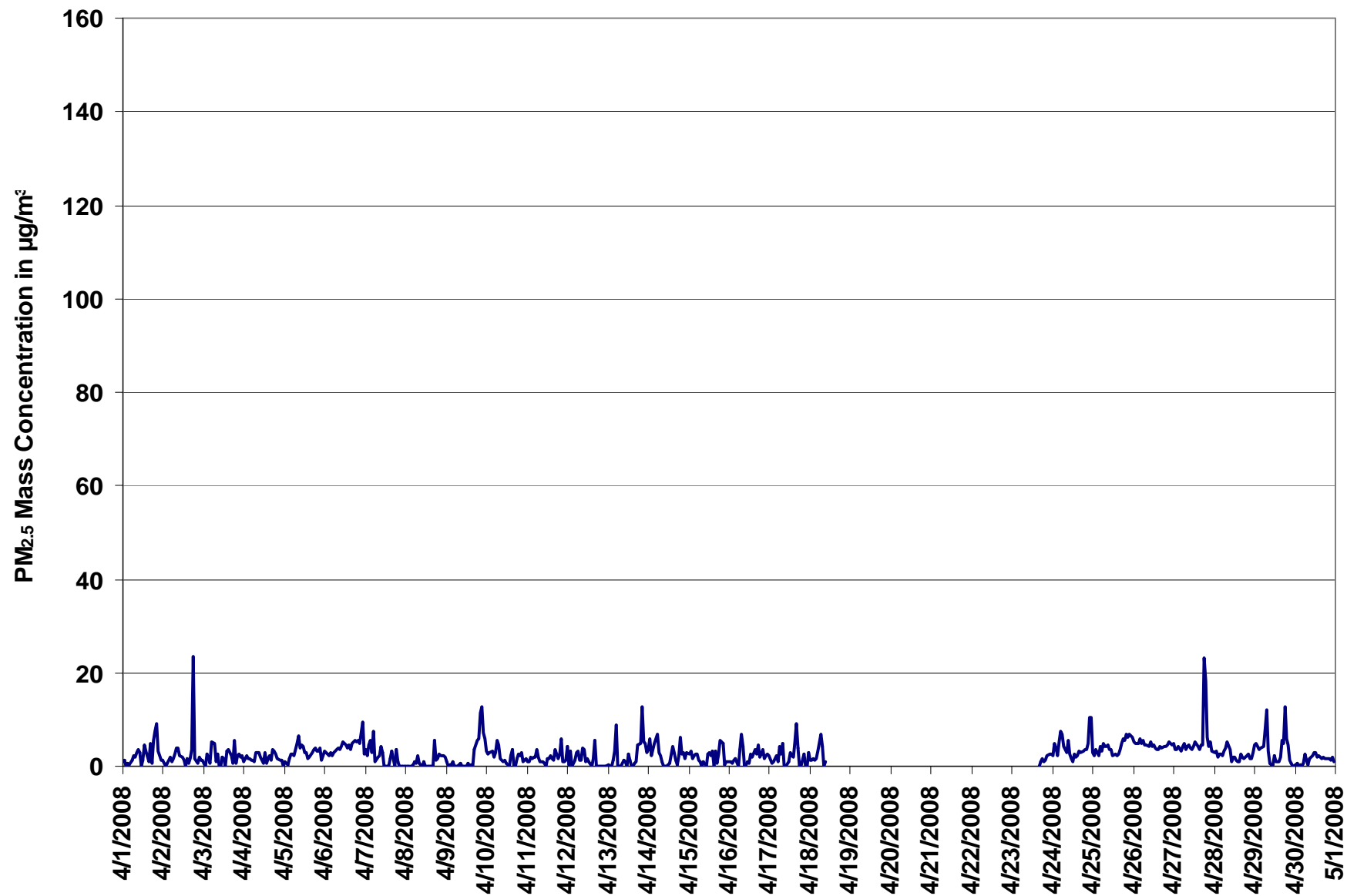


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

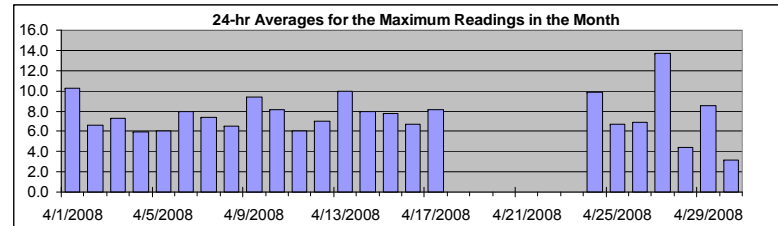
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	91.4	µg/m ³	27-Apr	18:00 19:00
Maximum 24-hr Value:	13.7	µg/m ³	27-Apr	



AIC Time:	0 hrs	Operational Time:	594 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	83.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	33.4	18.0	8.6	6.0	4.0	1.9	1.1	7.5	6 µg/m ³
									7.3 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-Apr-08	3	3	2	2	2	8	11	4	8	7	8	9	15	19	12	7	11	15	27	30	24	10	4	5	5	10.3	29.5	
2-Apr-08	3	1	2	3	4	2	3	4	5	6	5	6	4	4	8	7	6	7	55	6	4	4	5	4	4	6.6	54.6	
3-Apr-08	3	2	5	3	4	11	9	3	7	3	3	6	5	5	11	13	12	10	24	14	8	5	6	5	5	7.3	23.5	
4-Apr-08	5	5	3	2	2	3	3	7	5	6	7	6	9	11	12	12	7	11	7	5	4	3	3	2	2	5.9	12.0	
5-Apr-08	3	2	1	4	4	4	3	14	13	8	10	10	7	9	5	5	6	6	7	5	5	7	2	4	4	6.0	13.8	
6-Apr-08	5	5	5	6	5	6	5	6	7	6	8	8	9	9	10	8	9	9	9	7	8	13	23	8	8	7.9	22.7	
7-Apr-08	6	6	7	9	7	12	7	4	5	11	8	8	6	5	6	10	24	13	15	4	1	1	0	3	3	7.4	23.6	
8-Apr-08	3	3	1	1	3	3	4	5	6	6	3	7	6	7	9	7	11	14	17	9	9	6	8	5	5	6.5	17.2	
9-Apr-08	3	2	2	2	3	1	1	2	5	2	5	9	8	7	4	12	9	13	23	20	28	31	19	14	4	9.4	31.4	
10-Apr-08	7	7	8	8	7	8	10	9	6	5	5	9	8	6	18	11	7	18	8	13	6	4	5	4	4	8.1	17.7	
11-Apr-08	3	3	4	4	3	4	7	4	7	6	4	10	8	9	6	6	8	8	6	7	17	4	3	3	3	6.0	16.9	
12-Apr-08	8	6	8	2	6	10	9	6	5	16	8	6	9	8	4	11	20	19	5	0	0	1	2	0	0	7.0	20.2	
13-Apr-08	4	3	4	6	14	17	2	2	19	19	6	11	10	11	3	5	10	7	10	10	31	17	10	5	5	9.9	30.8	
14-Apr-08	8	16	9	16	7	19	6	6	5	2	4	4	7	7	13	11	6	7	8	12	5	5	4	5	4	8.0	19.3	
15-Apr-08	5	5	5	4	4	4	3	3	2	9	5	16	11	10	11	7	16	11	11	15	19	2	4	3	3	7.7	19.1	
16-Apr-08	3	2	2	3	7	7	7	11	8	3	5	8	7	11	10	13	10	16	5	4	6	4	4	4	4	6.7	16.2	
17-Apr-08	3	3	4	4	4	3	9	7	18	13	10	9	12	7	7	23	23	11	2	2	6	4	3	7	7	8.1	23.2	
18-Apr-08	5	5	6	5	4	8	13	10	6	8	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	N	13.3	
19-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
20-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
21-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
22-Apr-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
23-Apr-08	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	2	3	4	3	3	4	4	5	5	N	4.8	
24-Apr-08	5	13	11	5	10	15	12	8	5	14	7	4	3	4	3	5	5	5	5	5	5	12	39	40	4	9.9	40.1	
25-Apr-08	6	4	6	5	16	6	8	8	6	6	5	5	5	5	4	4	5	7	9	8	8	7	8	8	8	6.8	16.3	
26-Apr-08	7	6	7	7	8	7	7	6	6	6	7	6	8	6	6	5	6	6	6	6	8	9	9	8	8	6.9	9.5	
27-Apr-08	8	6	6	9	6	6	8	5	6	8	6	6	7	8	11	6	10	9	91	69	14	7	12	5	5	13.7	91.4	
28-Apr-08	5	4	3	4	5	5	5	6	7	6	3	4	4	3	3	2	6	5	5	5	4	4	4	4	4	4.4	6.8	
29-Apr-08	9	7	6	5	5	6	24	33	5	3	1	3	4	4	3	4	13	10	33	10	6	3	3	2	2	8.5	33.5	
30-Apr-08	2	2	1	2	2	2	5	2	3	4	5	5	4	4	5	4	3	3	3	3	3	3	3	3	3	3	3.2	4.8
Hourly Avg	4.8	5.0	4.7	4.8	5.7	7.2	7.2	7.0	7.1	7.3	5.9	7.2	7.2	7.4	7.6	8.3	9.8	9.7	15.8	10.9	9.3	6.9	7.5	6.3	6.3			
Hourly Max	8.8	15.8	10.8	16.5	16.3	19.3	23.9	33.5	19.1	19.4	10.1	16.1	14.9	19.4	17.6	23.0	23.6	19.1	91.4	68.8	30.8	31.4	38.9	40.1	40.1			

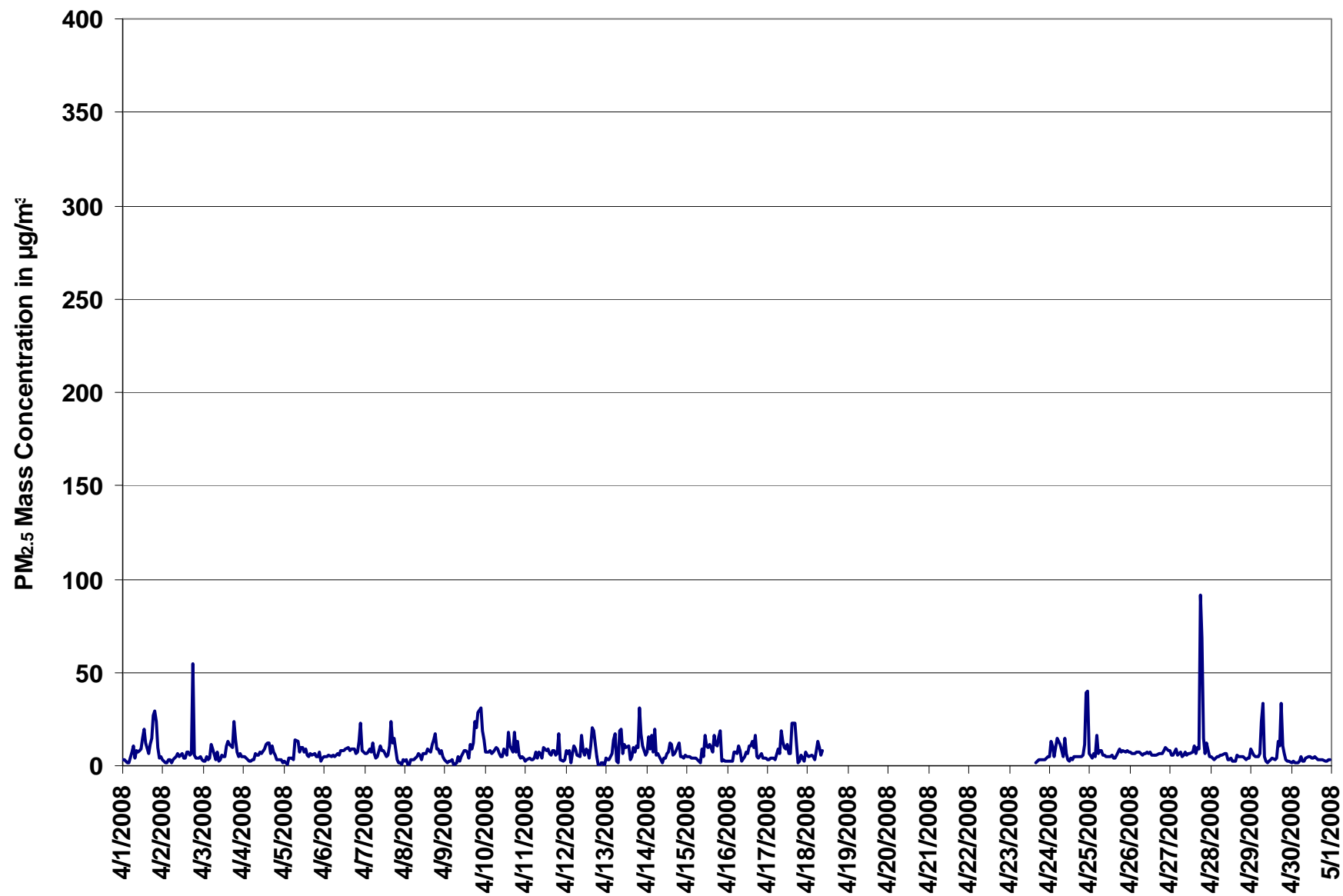
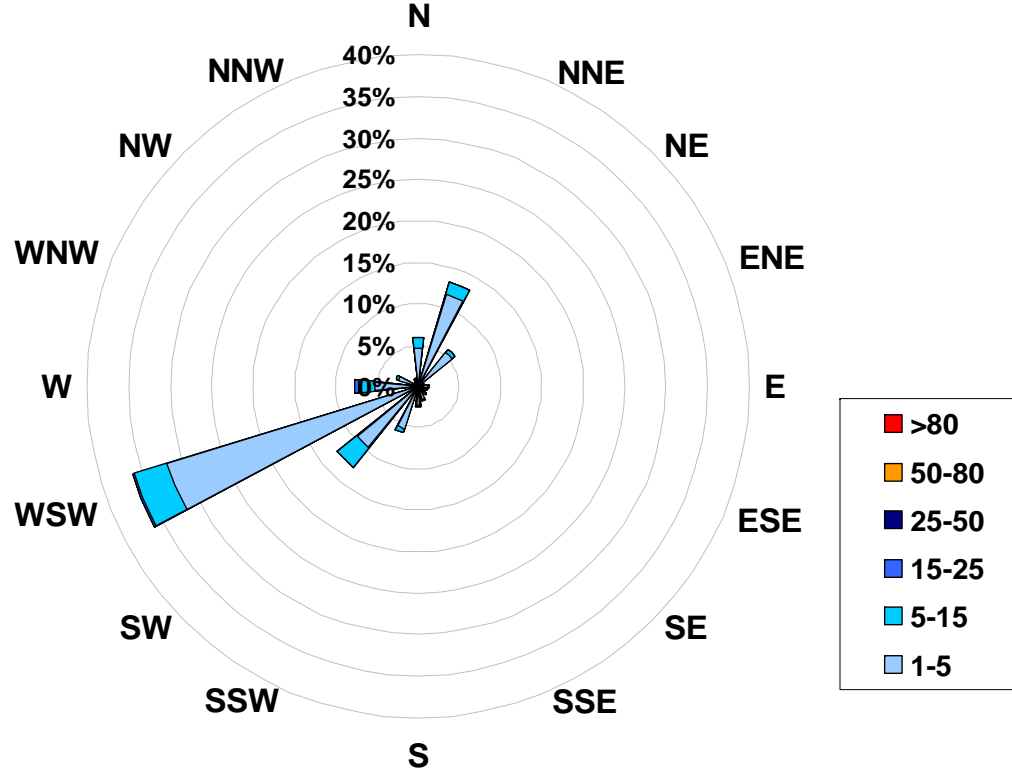


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Smoky Heights Site for April 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	524
5	to	15	67
15	to	25	3
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			594

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

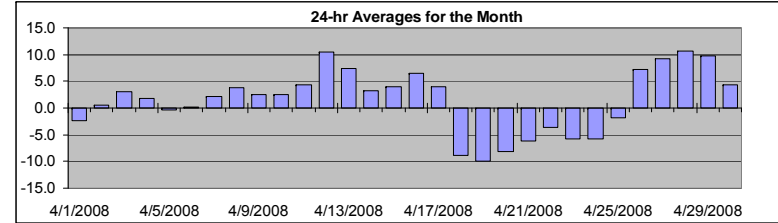
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	18.2 °C	12-Apr	15:00 16:00
Maximum 24-hr Value:	10.7 °C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.5	14.0	6.1	1.6	-2.9	-9.4	-12.2	1.5 °C	1.6 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00	
1-Apr-08	0:00	-6	-7	-7	-7	-8	-9	-9	-8	-5	-3	-1	1	3	3	2	2	3	3	2	0	-2	-1	-1	-2	-2.4	3.4	
2-Apr-08	1:00	-3	-4	-4	-4	-3	-4	-5	-3	-2	0	1	2	3	4	5	5	6	5	5	3	3	2	2	1	0.6	5.6	
3-Apr-08	2:00	1	1	1	1	2	2	2	2	2	2	3	3	4	5	6	6	7	6	5	4	3	3	2	1	3.1	6.7	
4-Apr-08	3:00	0	0	-1	-2	-2	-2	-3	-2	0	1	3	5	6	7	9	8	7	6	4	2	1	0	0	-1	1.9	9.2	
5-Apr-08	4:00	-2	-2	-3	-3	-3	-3	-3	-3	-1	-1	0	1	2	3	4	4	3	3	1	0	-1	-1	-2	-2	-0.3	4.1	
6-Apr-08	5:00	-2	-2	-2	-2	-2	-3	-3	-3	-2	-1	0	1	2	3	5	5	5	4	3	2	1	0	0	-2	0.2	4.8	
7-Apr-08	6:00	-2	-2	-2	-2	-3	-2	-2	-2	-2	-1	1	5	7	8	9	8	6	7	6	5	4	4	2	1	2.1	8.6	
8-Apr-08	7:00	0	-1	-2	-2	-3	-3	-3	-1	1	4	6	8	9	10	10	11	11	9	8	6	5	4	2	2	3.7	10.7	
9-Apr-08	8:00	1	0	-1	-1	0	-1	-1	1	1	2	4	6	8	9	10	11	11	9	8	6	5	4	2	1	-1	2.5	6.9
10-Apr-08	9:00	-2	-2	-2	-3	-2	-3	-2	-1	1	3	4	6	7	7	8	8	8	7	7	6	4	2	1	1	2.6	7.9	
11-Apr-08	10:00	1	0	0	0	-1	0	-1	0	3	5	6	8	8	8	8	9	9	9	9	8	5	4	3	2	4.3	9.4	
12-Apr-08	11:00	2	3	3	3	2	2	3	4	6	9	11	14	16	17	17	18	18	17	16	16	15	14	13	12	10.5	18.2	
13-Apr-08	12:00	10	8	7	6	7	9	9	7	8	7	7	7	8	9	9	10	11	11	10	8	5	2	1	1	7.4	10.8	
14-Apr-08	13:00	-1	0	0	-1	-2	-2	-1	1	3	5	6	6	7	8	8	8	8	7	6	4	3	3	2	2	3.3	7.9	
15-Apr-08	14:00	1	1	2	1	0	0	1	1	2	4	5	6	7	7	7	8	8	8	8	6	4	4	3	2	3.9	7.7	
16-Apr-08	15:00	1	0	0	-2	-1	-2	0	3	5	8	9	10	11	12	12	12	13	12	11	10	8	8	8	7	6.5	12.7	
17-Apr-08	16:00	7	7	7	6	6	5	5	5	4	3	4	5	6	6	6	6	4	3	2	1	0	-1	-1	-3	4.0	7.2	
18-Apr-08	17:00	-5	-6	-7	-7	-8	-9	-9	-10	-10	-10	-10	-9	-9	-9	-9	-8	-8	-8	-8	-9	-10	-11	-11	-12	-8.8	-4.9	
19-Apr-08	18:00	-12	-12	-13	-12	-13	-13	-13	-13	-12	-11	-10	-10	-10	-10	-9	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-10.0	-7.6
20-Apr-08	19:00	-9	-10	-10	-10	-10	-10	-10	-10	-9	-9	-8	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-8.1	-6.7	
21-Apr-08	20:00	-7	-7	-7	-7	-7	-8	-8	-8	-8	-8	-7	-7	-7	-6	-6	-5	-4	-4	-4	-4	-4	-4	-4	-4	-6.1	-3.8	
22-Apr-08	21:00	-4	-6	-6	-6	-7	-7	-7	-6	-6	-4	-3	-2	-1	0	0	0	0	0	-1	-3	-5	-6	-6	-6	-3.6	0.1	
23-Apr-08	22:00	-8	-8	-11	-10	-7	-8	-8	-7	-6	-5	-5	-4	-3	-3	-3	-3	-3	-3	-4	-5	-6	-7	-8	-7	-5.9	-2.6	
24-Apr-08	23:00	-7	-8	-9	-9	-10	-10	-10	-9	-7	-5	-5	-4	-3	-2	-2	-1	-1	-2	-3	-4	-5	-6	-7	-8	-5.7	-1.2	
25-Apr-08	0:00	-7	-8	-9	-10	-11	-11	-9	-7	-5	-3	-2	-1	1	2	3	4	5	6	7	6	3	2	0	0	-1.9	6.9	
26-Apr-08	1:00	0	0	0	0	-1	-2	0	2	5	8	9	10	12	13	14	15	16	16	16	14	10	7	5	4	7.2	16.2	
27-Apr-08	2:00	3	3	2	2	1	2	2	4	6	9	10	12	14	14	16	18	17	16	16	14	13	9	9	5	9.1	17.7	
28-Apr-08	3:00	4	3	3	2	2	1	3	7	10	12	14	16	17	18	18	18	18	17	16	15	13	12	11	10	10.7	17.9	
29-Apr-08	4:00	10	9	9	7	6	4	4	6	9	12	13	12	13	13	15	15	15	14	13	9	8	6	5	5	9.7	15.1	
30-Apr-08	5:00	4	4	4	4	4	3	4	4	3	4	5	5	6	6	6	6	6	5	5	4	3	3	3	3	4.3	6.1	
Hourly Avg		-1.1	-1.5	-1.9	-2.2	-2.5	-2.7	-2.5	-1.6	-0.2	1.3	2.3	3.5	4.5	5.1	5.6	5.9	5.9	5.5	4.9	3.6	2.2	1.3	0.5	-0.1			
Hourly Max		9.8	9.4	8.6	7.1	7.0	9.5	9.0	6.9	9.5	12.4	14.4	16.1	17.1	17.6	17.9	18.2	17.8	17.3	16.0	16.0	15.2	14.2	12.6	11.8			

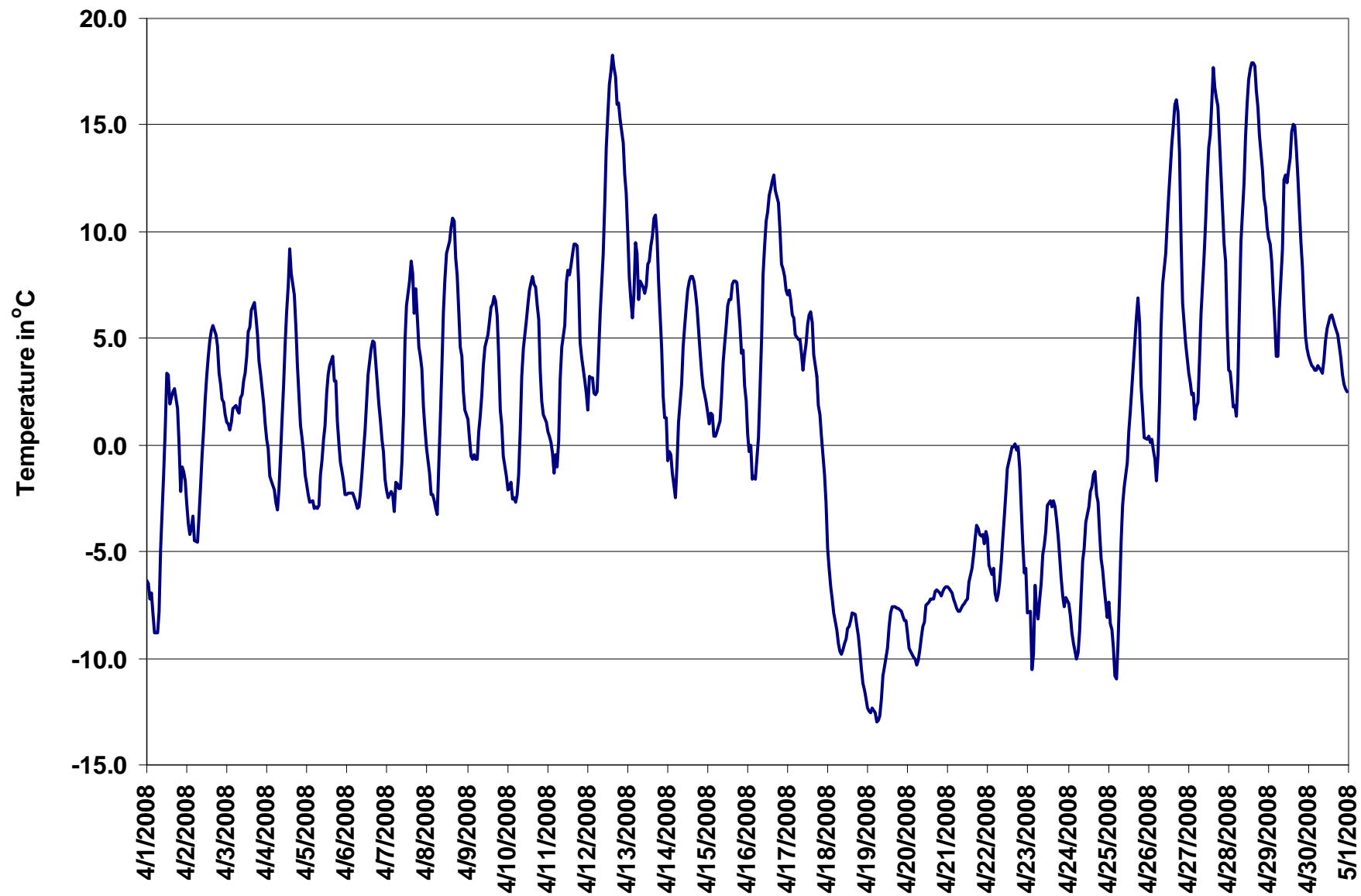


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

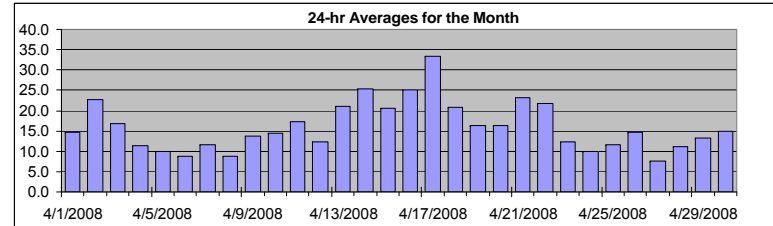
Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	59.9	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	33.4	km/hr	17-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	42.8	31.0	20.6	14.8	9.9	5.7	3.4	16.1 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	16	16	17	17	13	13	15	13	18	18	16	14	12	13	21	23	16	8	8	6	8	15	19	20	14.8	23.5
2-Apr-08	20	20	23	26	28	22	19	19	20	17	23	26	31	27	23	22	22	18	11	16	28	28	29	29	22.8	30.7
3-Apr-08	25	24	21	21	18	17	15	11	6	13	19	21	20	20	19	15	13	10	7	10	13	23	22	18	16.8	24.6
4-Apr-08	20	15	12	17	12	7	13	11	16	15	10	6	6	6	6	10	12	13	14	12	8	8	11	11	11.2	20.0
5-Apr-08	11	10	9	7	7	7	7	7	7	8	10	11	10	12	13	13	15	13	13	11	9	10	9	9	9.9	14.6
6-Apr-08	9	9	8	11	12	11	10	11	9	8	7	8	8	6	7	9	10	12	12	10	9	7	5	4	8.8	11.9
7-Apr-08	4	4	6	8	8	10	11	10	10	10	11	12	15	15	16	18	22	17	16	15	12	11	8	8	11.5	22.4
8-Apr-08	8	9	10	12	7	8	9	10	10	8	6	5	6	6	7	9	10	12	12	11	11	7	11	7	8.8	12.3
9-Apr-08	6	7	8	10	13	14	18	17	16	19	21	23	22	20	21	16	12	13	10	9	8	9	7	9	13.7	22.9
10-Apr-08	11	11	9	8	7	8	8	7	9	12	19	20	21	19	19	23	15	18	19	16	16	16	17	16	14.4	23.5
11-Apr-08	17	18	17	16	12	16	12	14	17	21	22	24	27	24	24	23	17	15	19	14	11	16	11	8	17.2	27.0
12-Apr-08	11	7	8	11	5	7	6	7	10	11	19	26	25	23	17	11	8	7	7	13	16	17	12	8	12.2	25.9
13-Apr-08	5	4	4	11	13	22	16	19	30	31	32	26	30	29	27	29	36	34	29	23	12	10	14	16	21.0	35.6
14-Apr-08	14	12	10	10	14	15	17	19	23	32	37	43	41	37	34	34	35	37	32	23	25	21	20	18	25.3	42.7
15-Apr-08	17	15	22	21	22	23	24	23	22	22	23	26	27	27	24	27	27	13	8	8	6	18	21	24	20.5	27.0
16-Apr-08	19	17	18	9	6	10	13	13	19	31	27	28	35	36	34	36	40	40	36	32	24	29	30	24	25.2	40.1
17-Apr-08	24	34	34	31	26	28	37	46	50	48	60	54	51	46	43	31	23	25	23	15	17	18	19	19	33.4	59.9
18-Apr-08	20	19	16	18	19	18	19	18	21	25	22	22	22	22	22	21	20	20	21	23	24	22	24	22	20.9	25.1
19-Apr-08	18	17	15	16	17	20	15	15	16	17	16	19	18	19	18	18	19	17	13	13	16	15	13	15	16.4	19.8
20-Apr-08	19	18	13	15	13	14	14	16	15	16	18	18	16	18	19	16	15	17	16	17	16	18	19	19	16.3	18.8
21-Apr-08	20	23	22	23	22	21	25	22	26	24	27	28	31	31	30	22	25	16	12	16	20	23	25	25	23.2	31.0
22-Apr-08	25	30	22	22	24	29	29	36	33	28	25	24	25	24	24	21	17	14	12	14	9	11	14	11	21.8	36.0
23-Apr-08	11	7	3	6	14	14	14	18	19	17	14	13	12	14	15	13	13	14	15	13	12	9	8	10	12.4	19.0
24-Apr-08	11	10	9	10	10	10	12	13	12	11	13	14	12	10	11	10	11	10	10	8	7	7	4	2	9.9	14.0
25-Apr-08	3	4	3	5	5	3	4	6	12	17	18	18	18	21	19	18	17	14	8	9	15	13	14	16	11.7	21.0
26-Apr-08	17	19	18	19	18	13	13	12	13	16	21	22	20	20	15	18	20	20	13	8	6	3	5	2	14.7	22.3
27-Apr-08	5	6	6	4	7	8	7	7	8	7	7	7	6	6	5	4	5	4	3	9	14	16	16	13	7.6	15.7
28-Apr-08	13	15	13	14	9	9	10	9	9	8	9	8	9	11	16	14	16	17	12	14	11	7	7	4	11.1	16.6
29-Apr-08	14	19	18	9	9	6	3	4	5	10	13	12	14	11	13	13	11	8	12	26	14	23	24	26	13.3	26.2
30-Apr-08	26	23	23	20	20	18	19	22	23	25	16	12	7	8	8	12	8	9	12	10	8	9	9	7	14.8	26.1
1-hr Average	14.6	14.7	14.0	14.2	13.8	14.0	14.5	15.3	16.8	18.2	19.4	19.7	19.9	19.3	19.0	18.5	17.6	16.2	14.5	14.1	13.5	14.7	14.9	14.0		
Hourly Max	26.1	34.1	34.1	30.7	27.7	28.7	37.3	46.2	50.2	48.0	59.9	53.9	51.4	45.9	42.9	36.0	39.9	40.1	36.3	31.9	28.0	28.7	30.2	28.6		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

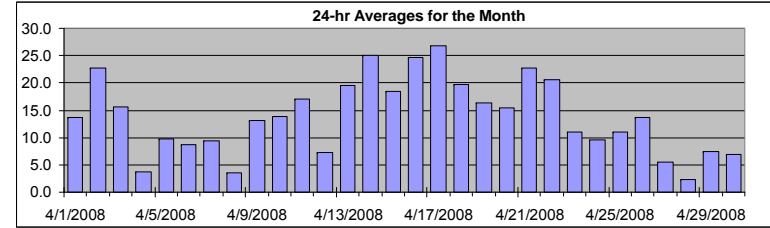
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	59.5	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	26.9	km/hr	17-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	42.4	30.7	20.4	14.6	9.5	4.7	2.1	66.8 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	16	16	17	17	13	13	15	13	18	18	16	12	11	9	21	23	15	7	6	6	8	15	19	20	13.6	23.4	
2-Apr-08	20	20	23	26	28	22	19	19	20	17	23	26	31	27	22	22	22	18	11	15	28	28	29	29	22.7	30.6	
3-Apr-08	25	24	21	21	18	15	15	11	4	13	19	20	20	20	18	15	13	10	7	10	13	23	22	18	15.7	24.6	
4-Apr-08	20	14	12	16	12	6	13	11	16	15	10	6	6	5	4	9	12	13	14	12	7	8	11	11	3.7	19.9	
5-Apr-08	11	9	9	7	7	7	7	7	7	8	9	10	9	12	13	13	14	13	13	11	9	10	9	9	9.8	14.3	
6-Apr-08	9	9	8	11	12	11	10	11	9	8	6	8	8	5	5	9	10	12	11	10	9	7	5	4	8.7	11.9	
7-Apr-08	3	3	6	8	8	10	11	10	10	10	11	11	15	15	15	17	22	17	16	15	12	10	8	8	9.5	21.6	
8-Apr-08	8	9	10	11	7	8	8	10	10	8	5	4	2	4	6	8	8	12	8	9	10	5	11	5	3.6	12.0	
9-Apr-08	2	6	8	10	13	14	18	17	16	19	21	23	22	20	20	15	12	12	10	9	8	9	7	8	13.1	22.6	
10-Apr-08	11	11	9	8	7	8	7	7	9	11	19	20	20	19	19	23	13	15	19	16	16	16	17	16	13.9	22.8	
11-Apr-08	17	17	17	15	12	16	11	13	17	21	21	24	27	24	24	22	16	15	19	13	11	16	11	8	17.0	26.6	
12-Apr-08	11	7	8	10	5	6	5	7	9	10	19	26	24	23	17	11	7	7	7	13	16	17	12	8	7.3	25.6	
13-Apr-08	5	3	4	11	13	22	14	19	30	31	32	26	30	29	27	29	35	33	28	23	12	10	14	16	19.5	35.2	
14-Apr-08	14	12	10	10	14	15	17	19	23	32	37	42	41	37	34	34	35	37	32	23	25	21	20	18	25.0	42.5	
15-Apr-08	17	15	22	21	22	23	24	23	21	21	23	25	26	27	23	26	26	12	8	7	6	18	21	24	18.5	26.6	
16-Apr-08	19	17	18	9	6	9	13	13	19	31	26	27	34	35	33	36	40	40	36	32	24	29	30	24	24.6	39.8	
17-Apr-08	24	34	34	31	26	28	37	46	50	47	60	54	51	45	42	30	22	24	23	15	17	18	19	18	26.9	59.5	
18-Apr-08	19	19	15	17	18	18	19	18	20	25	22	22	22	22	21	21	20	20	21	23	24	22	24	22	19.8	24.7	
19-Apr-08	18	17	15	16	17	20	15	14	16	16	16	18	17	19	18	18	18	17	13	13	16	15	13	15	16.3	19.7	
20-Apr-08	18	18	13	15	13	14	14	16	15	15	18	17	15	17	18	16	15	16	16	17	16	18	18	18	15.4	18.5	
21-Apr-08	19	23	22	23	22	21	24	22	25	24	27	28	31	31	29	22	24	15	11	15	19	23	24	24	22.7	30.8	
22-Apr-08	24	29	22	21	24	29	29	36	32	28	24	23	25	24	24	21	16	14	7	13	7	11	14	11	20.5	36.0	
23-Apr-08	11	6	2	4	14	14	14	18	19	17	14	13	12	13	15	12	12	14	15	13	11	9	8	10	11.0	18.8	
24-Apr-08	11	10	9	10	10	10	12	13	12	11	12	13	11	10	11	10	10	9	10	7	7	6	4	1	9.6	13.4	
25-Apr-08	3	4	1	5	3	3	3	6	12	16	18	18	18	21	18	18	16	14	8	9	15	13	14	16	11.0	20.6	
26-Apr-08	17	19	18	19	18	12	13	12	13	16	20	22	20	19	15	18	19	19	13	8	6	2	4	1	13.7	22.0	
27-Apr-08	5	6	6	4	7	8	7	7	8	7	7	7	6	4	4	2	5	2	2	9	14	16	15	13	5.5	15.6	
28-Apr-08	13	15	13	14	9	9	10	9	9	7	9	8	7	9	15	14	15	17	12	14	11	7	7	3	2.4	16.5	
29-Apr-08	13	19	17	9	9	6	3	3	4	9	13	12	13	11	13	12	10	8	10	26	13	23	24	26	7.5	26.1	
30-Apr-08	26	23	23	20	20	18	19	22	23	25	16	12	4	7	8	12	8	8	12	10	8	9	8	7	6.9	26.0	
1-hr Vector	7.3	8.4	8.5	8.4	7.7	7.6	8.2	8.3	9.6	10.5	12.6	12.8	12.0	12.1	10.7	9.5	7.0	5.4	4.6	4.0	3.3	5.8	7.1	6.3			
Hourly Max	26.0	33.9	34.0	30.5	27.7	28.6	37.1	45.9	50.0	47.5	59.5	53.6	50.9	45.3	42.1	35.6	39.6	39.8	36.1	31.8	27.9	28.6	30.1	28.5			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

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Calm Time: 0 hrs	0% calms	Operational Time: 720 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%
Percentile 99: 355.9	95: 342.9	75: 254.5
50: 239.0	25: 88.6	5: 13.6
1: 3.7	Average: 273 deg	

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	251	255	259	255	246	249	252	248	248	248	247	252	5	273	234	239	263	296	309	280	232	239	240	242	253	WSW	
2-Apr-08	254	255	255	253	253	257	249	251	246	246	239	246	238	244	248	245	237	240	264	252	246	248	252	255	249	WSW	
3-Apr-08	248	244	257	253	247	284	298	296	264	199	239	241	237	236	251	275	305	253	262	275	233	240	255	256	254	WSW	
4-Apr-08	253	256	233	235	254	245	242	249	224	235	243	242	238	306	7	17	53	48	37	39	31	34	32	26	282	WNW	
5-Apr-08	20	23	33	39	23	13	39	18	22	29	23	26	22	33	50	32	33	32	33	33	30	23	25	25	29	NNE	
6-Apr-08	23	21	9	25	23	29	24	23	33	30	24	20	18	23	23	35	42	44	45	33	25	34	15	359	27	NNE	
7-Apr-08	24	190	192	207	229	221	218	221	219	218	228	227	235	242	254	245	183	166	151	154	164	173	212	214	207	SSW	
8-Apr-08	212	205	207	197	213	212	205	187	180	202	205	297	237	320	70	128	111	57	114	56	88	139	255	19	171	S	
9-Apr-08	26	225	251	251	250	253	259	258	249	250	247	253	251	250	248	239	240	252	227	222	227	253	245	240	248	WSW	
10-Apr-08	263	261	252	199	199	207	214	217	211	225	237	236	242	244	247	236	215	222	255	246	242	246	243	237	237	WSW	
11-Apr-08	244	248	243	234	247	242	251	229	238	244	247	255	255	249	246	251	247	245	242	230	231	232	227	216	243	WSW	
12-Apr-08	222	191	197	200	202	213	242	212	195	208	236	240	245	243	249	252	273	46	56	100	118	130	148	133	210	SSW	
13-Apr-08	75	14	250	259	249	264	303	273	264	255	250	240	241	229	229	237	235	249	257	257	259	246	228	231	249	WSW	
14-Apr-08	231	251	291	265	240	250	247	241	240	241	240	237	236	251	256	247	243	242	247	241	239	240	243	249	244	WSW	
15-Apr-08	250	243	258	259	255	254	249	255	252	282	282	284	293	293	303	300	282	323	349	278	209	238	238	242	269	W	
16-Apr-08	252	252	239	244	266	218	214	234	237	253	259	267	261	265	264	264	257	252	247	249	244	240	241	232	251	WSW	
17-Apr-08	228	243	235	236	226	228	244	243	256	264	256	264	260	261	266	277	319	328	339	343	341	343	348	19	266	W	
18-Apr-08	35	30	23	3	4	3	356	359	352	345	347	340	347	345	348	12	16	32	34	37	33	27	24	23	10	N	
19-Apr-08	17	13	10	14	34	27	34	27	23	18	359	10	17	21	24	25	29	25	12	8	18	15	12	9	19	NNE	
20-Apr-08	36	41	26	34	31	39	25	28	24	11	13	9	7	359	3	352	351	352	354	355	348	344	343	335	8	N	
21-Apr-08	328	325	328	325	328	327	325	328	333	334	329	327	322	320	321	329	318	339	1	341	9	350	351	344	332	NNW	
22-Apr-08	350	337	350	333	319	318	318	314	307	309	306	304	317	316	302	298	307	293	298	319	304	252	262	271	313	NW	
23-Apr-08	267	291	301	16	3	15	23	35	33	38	16	16	18	21	17	12	37	40	41	53	43	37	36	37	24	NNE	
24-Apr-08	44	28	354	357	5	7	10	17	21	12	359	17	23	22	15	21	14	26	22	10	8	4	2	97	15	NNE	
25-Apr-08	241	275	17	280	281	165	242	210	224	226	236	221	228	244	245	239	238	240	243	218	222	239	245	253	237	WSW	
26-Apr-08	251	254	239	247	252	219	232	213	210	217	238	248	257	252	244	238	255	251	241	212	182	332	148	170	240	WSW	
27-Apr-08	252	255	241	209	199	212	207	190	182	155	150	167	153	173	199	173	121	136	248	270	272	260	268	230	217	SW	
28-Apr-08	243	249	260	254	210	221	218	246	232	174	163	153	115	126	111	108	95	51	59	55	31	10	6	178	153	SSE	
29-Apr-08	211	232	226	229	241	245	253	230	293	21	9	356	3	358	351	344	351	350	265	248	242	225	241	250	270	W	
30-Apr-08	249	255	245	243	240	241	237	247	249	252	260	254	25	42	51	70	94	89	81	110	133	129	121	124	235	SW	
Hourly Avg	271	272	267	266	269	270	273	270	265	266	267	270	274	276	279	278	281	297	303	295	279	266	270	271			

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	71.6	38.4	13.7	9.3	5.9	3.3	2.2

Status Flag Characters

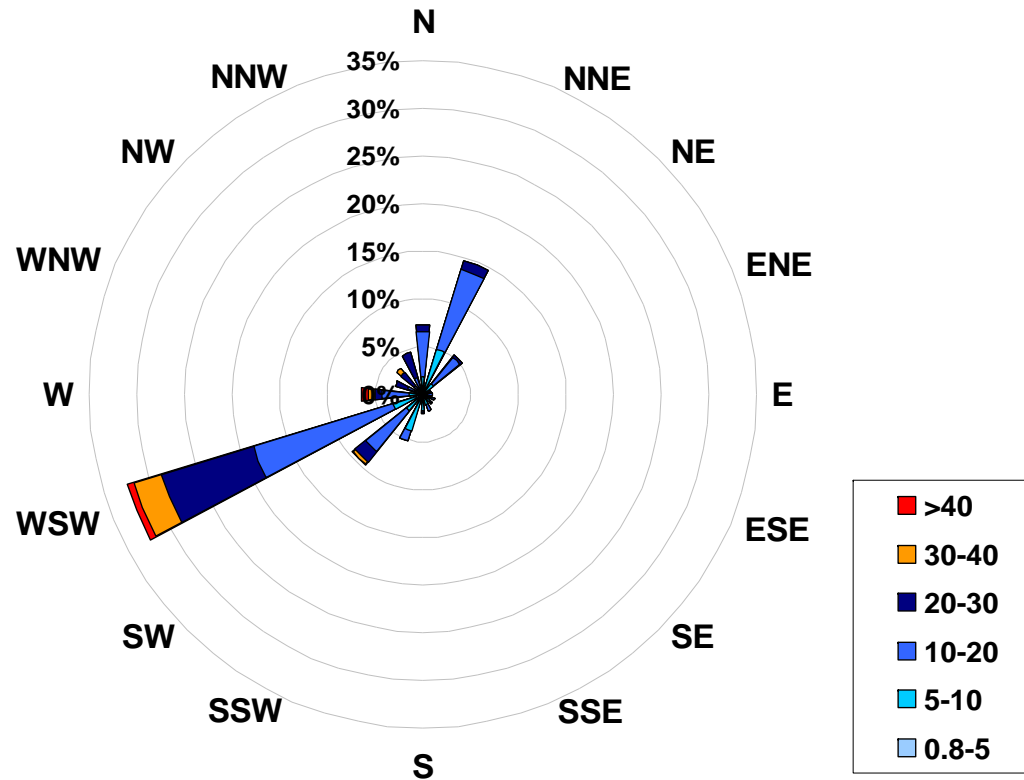
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	5	3	1	4	3	8	4	6	11	4	7	52	19	49	8	5	15	35	40	14	8	4	4	5	51.8	
2-Apr-08	3	2	2	2	1	2	3	2	4	5	4	4	3	7	6	4	3	4	12	13	3	4	2	3	13.0	
3-Apr-08	5	3	5	2	4	33	10	10	52	12	10	7	3	4	12	11	11	15	18	19	10	2	4	4	52.4	
4-Apr-08	4	15	18	7	4	39	3	15	4	3	11	13	25	32	50	22	17	10	6	10	13	8	5	6	49.7	
5-Apr-08	6	5	8	7	10	14	11	14	13	12	10	12	17	14	14	13	11	11	6	5	9	7	5	8	16.6	
6-Apr-08	6	6	7	5	4	5	5	7	9	9	13	9	12	30	45	19	14	10	10	8	8	9	10	14	45.3	
7-Apr-08	29	72	12	15	6	7	7	8	10	7	9	13	7	8	14	19	15	10	6	4	7	8	10	13	72.3	
8-Apr-08	4	9	8	7	10	7	10	5	5	18	26	61	72	53	46	35	38	12	45	31	29	47	7	40	71.8	
9-Apr-08	91	25	13	9	5	6	2	5	5	4	8	10	9	10	12	18	14	22	8	5	9	12	13	10	90.8	
10-Apr-08	2	2	28	20	10	8	13	13	8	17	10	10	12	12	12	13	28	34	14	13	7	9	7	5	34.0	
11-Apr-08	4	6	4	4	6	3	8	6	5	6	7	13	10	8	8	12	13	13	6	10	16	3	8	19	19.3	
12-Apr-08	10	28	13	5	27	37	39	19	13	17	13	9	7	8	12	16	22	28	18	8	6	10	12	14	39.5	
13-Apr-08	32	69	33	22	12	10	28	8	7	5	8	9	8	8	8	7	8	12	6	3	8	9	10	6	68.7	
14-Apr-08	8	15	9	9	7	14	5	5	8	5	6	6	7	13	10	10	8	7	4	5	4	3	3	5	15.3	
15-Apr-08	7	5	7	4	3	4	3	3	5	13	10	14	11	10	13	12	13	29	18	36	31	8	3	3	35.7	
16-Apr-08	6	6	3	6	10	20	9	7	7	7	11	11	9	11	11	9	7	8	5	4	5	5	3	6	20.1	
17-Apr-08	5	7	4	5	6	12	5	7	5	9	7	7	9	9	11	18	14	11	7	8	6	5	7	21	20.9	
18-Apr-08	6	6	10	12	9	11	9	12	10	11	14	11	13	10	15	13	15	13	7	7	6	6	5	5	15.2	
19-Apr-08	6	5	7	9	6	5	7	10	8	9	17	15	16	7	11	10	9	7	9	8	6	6	6	7	17.0	
20-Apr-08	11	7	6	5	5	9	6	8	11	12	9	11	13	11	11	10	9	10	10	9	8	7	5	6	12.9	
21-Apr-08	5	5	5	5	7	6	6	7	7	8	7	6	8	6	7	8	11	10	22	27	14	10	9	10	27.0	
22-Apr-08	11	12	11	12	5	6	5	4	8	8	14	13	11	15	10	12	18	14	58	21	34	9	4	6	57.8	
23-Apr-08	9	56	59	75	9	5	9	6	7	10	14	12	15	18	11	14	18	12	11	8	9	5	8	7	75.3	
24-Apr-08	8	14	10	6	6	4	5	5	6	13	15	17	19	20	18	25	22	18	11	9	7	7	13	71	70.6	
25-Apr-08	30	13	87	11	82	37	37	14	7	12	9	14	14	11	11	9	7	10	11	8	4	4	4	5	3	87.4
26-Apr-08	4	5	5	4	3	17	11	3	9	9	8	10	11	12	18	11	9	7	8	15	22	55	43	78	78.4	
27-Apr-08	25	9	12	28	13	6	12	10	16	10	12	19	26	56	41	67	38	68	79	5	7	6	9	6	79.3	
28-Apr-08	12	7	10	10	17	6	6	9	12	31	23	31	56	30	22	21	27	6	9	8	18	20	20	59	59.3	
29-Apr-08	21	5	5	14	5	11	22	35	37	21	18	19	17	19	19	25	29	16	35	4	24	5	10	4	37.4	
30-Apr-08	4	5	3	5	4	5	5	5	4	5	5	7	57	9	13	15	9	9	9	9	14	18	17	10	17	57.0

Hourly Max	91	72	87	75	82	39	39	35	52	31	26	61	72	56	50	67	38	68	79	36	34	55	43	78
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	24
5	to	10	161
10	to	20	345
20	to	30	147
30	to	40	32
	>	40	11
Total Non-Zero Values			720

PASZA
Beaverlodge Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: April 1, 2008 to May 1, 2008

Alberta's Air Quality Index

Good	1	to	25
Fair	26	to	50
Poor	51	to	100
Very Poor	>		100

Summary

Number of 1-hr Good Readings:	548
Number of 1-hr Fair Readings:	131
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Apr-08	16	16	17	16	N	18	17	18	21	22	22	23	23	24	23	23	23	23	22	21	20	20	20	19
2-Apr-08	19	19	18	19	N	19	18	19	20	20	21	21	21	21	21	21	21	20	20	19	19	19	19	18
3-Apr-08	19	19	19	20	N	17	19	19	20	21	21	21	22	22	22	22	21	21	21	21	20	20	20	20
4-Apr-08	19	18	16	16	N	16	16	15	18	19	21	22	22	22	22	22	22	22	22	21	21	20	20	18
5-Apr-08	17	15	16	14	N	15	16	15	14	15	16	18	20	23	22	23	22	23	22	20	18	17	17	18
6-Apr-08	18	18	15	13	N	17	18	17	18	18	19	20	19	20	21	21	21	20	20	19	18	17	16	16
7-Apr-08	16	15	14	13	N	12	10	10	11	14	17	21	21	22	22	22	21	21	20	20	18	16	17	18
8-Apr-08	17	17	16	16	N	14	15	13	16	16	17	20	22	23	22	23	23	22	22	20	21	20	17	17
9-Apr-08	16	15	14	16	N	20	21	20	20	23	24	24	24	26	26	26	26	25	25	23	23	22	22	20
10-Apr-08	20	17	17	16	N	13	14	16	19	22	24	25	25	25	25	25	25	24	22	21	21	19	17	
11-Apr-08	18	16	18	19	N	20	19	20	21	22	24	24	25	24	25	25	25	24	22	19	19	19	19	19
12-Apr-08	18	16	15	15	N	15	13	12	11	12	13	16	16	16	15	14	15	N	18	17	17	17	17	16
13-Apr-08	15	15	15	16	N	15	21	26	N	30	28	27	28	29	30	30	32	31	30	27	25	24	24	23
14-Apr-08	24	23	24	24	N	22	21	22	24	25	26	27	29	29	28	27	27	27	26	26	24	23	23	24
15-Apr-08	24	24	23	22	N	21	21	21	22	23	23	24	24	24	24	24	23	23	23	22	22	20	19	19
16-Apr-08	19	21	21	20	N	24	24	24	24	24	24	24	24	25	25	24	25	25	25	25	25	25	26	26
17-Apr-08	25	25	23	24	N	28	27	26	27	N	27	26	26	26	26	27	26	25	24	23	22	20	19	19
18-Apr-08	19	19	19	20	N	19	17	16	16	15	15	15	15	15	15	15	16	16	15	15	15	14	13	
19-Apr-08	12	12	13	13	N	13	12	12	12	12	13	13	14	15	15	16	16	16	17	17	17	16	16	16
20-Apr-08	18	18	17	18	N	18	19	18	19	18	19	19	19	20	20	20	20	20	20	20	20	21	21	21
21-Apr-08	20	19	20	19	N	19	19	20	20	21	22	N	N	N	24	25	25	26	27	27	25	24	25	25
22-Apr-08	26	25	25	22	N	23	22	21	N	N	N	N	N	26	27	27	28	28	27	25	24	24	24	26
23-Apr-08	23	23	25	23	N	24	24	24	25	26	26	27	28	29	30	30	30	28	27	26	25	24	23	24
24-Apr-08	25	23	23	22	N	22	23	23	24	24	24	25	26	27	27	28	28	28	28	26	25	24	24	24
25-Apr-08	22	21	23	23	N	20	18	17	22	23	24	26	29	30	31	31	31	31	30	29	27	24	24	25
26-Apr-08	26	25	26	25	N	24	23	22	22	24	29	31	33	34	33	33	33	32	32	31	30	30	30	27
27-Apr-08	25	23	22	21	N	20	19	21	21	20	21	22	24	29	33	33	32	28	29	28	26	24	23	23
28-Apr-08	24	21	22	22	N	20	21	21	21	23	25	27	29	30	32	33	34	32	31	32	31	29	29	30
29-Apr-08	28	28	29	27	N	26	24	22	27	28	29	31	33	34	35	35	32	27	25	23	24	24	24	24
30-Apr-08	24	24	23	22	N	22	22	22	23	23	21	18	18	19	18	18	16	16	16	15	15	15	14	15

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

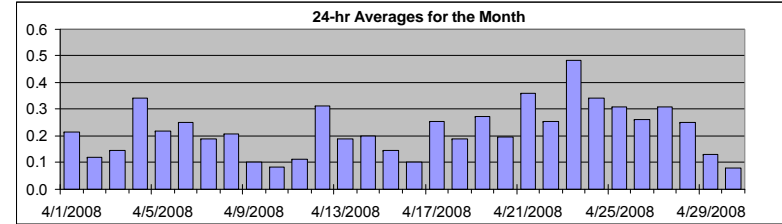
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	1.9	ppb	23-Apr	7:00 8:00
Maximum 24-hr Average:	0.5	ppb	23-Apr	



AIC Time:	31 hrs	Operational Time:	687 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	0.3	0.2	0.1	0.1	0.0	0.2 ppb	0.2 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
3-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
4-Apr-08	0	0	0	0	A	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0.3	0.7
5-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
6-Apr-08	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
7-Apr-08	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
8-Apr-08	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
9-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
10-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
11-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
12-Apr-08	0	0	0	0	A	0	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
14-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
15-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
16-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
18-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0.2	1.0
19-Apr-08	0	0	1	1	A	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0.3	0.9
20-Apr-08	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
21-Apr-08	0	0	0	0	A	0	0	0	0	1	0	C	C	A	1	0	0	1	1	0	1	0	0	0	0.4	0.7
22-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
23-Apr-08	0	0	1	1	A	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.9
24-Apr-08	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.8
25-Apr-08	0	0	0	0	A	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.3	1.0
26-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
27-Apr-08	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0.3	0.8
28-Apr-08	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
29-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
Hourly Avg	0.2	0.2	0.2	0.2	N	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2		
Hourly Max	0.4	0.5	0.8	0.9	0.0	0.8	0.9	1.9	1.4	1.6	0.8	1.0	0.5	0.6	0.5	0.5	0.4	0.6	0.7	0.7	0.6	1.6	1.0	0.5		

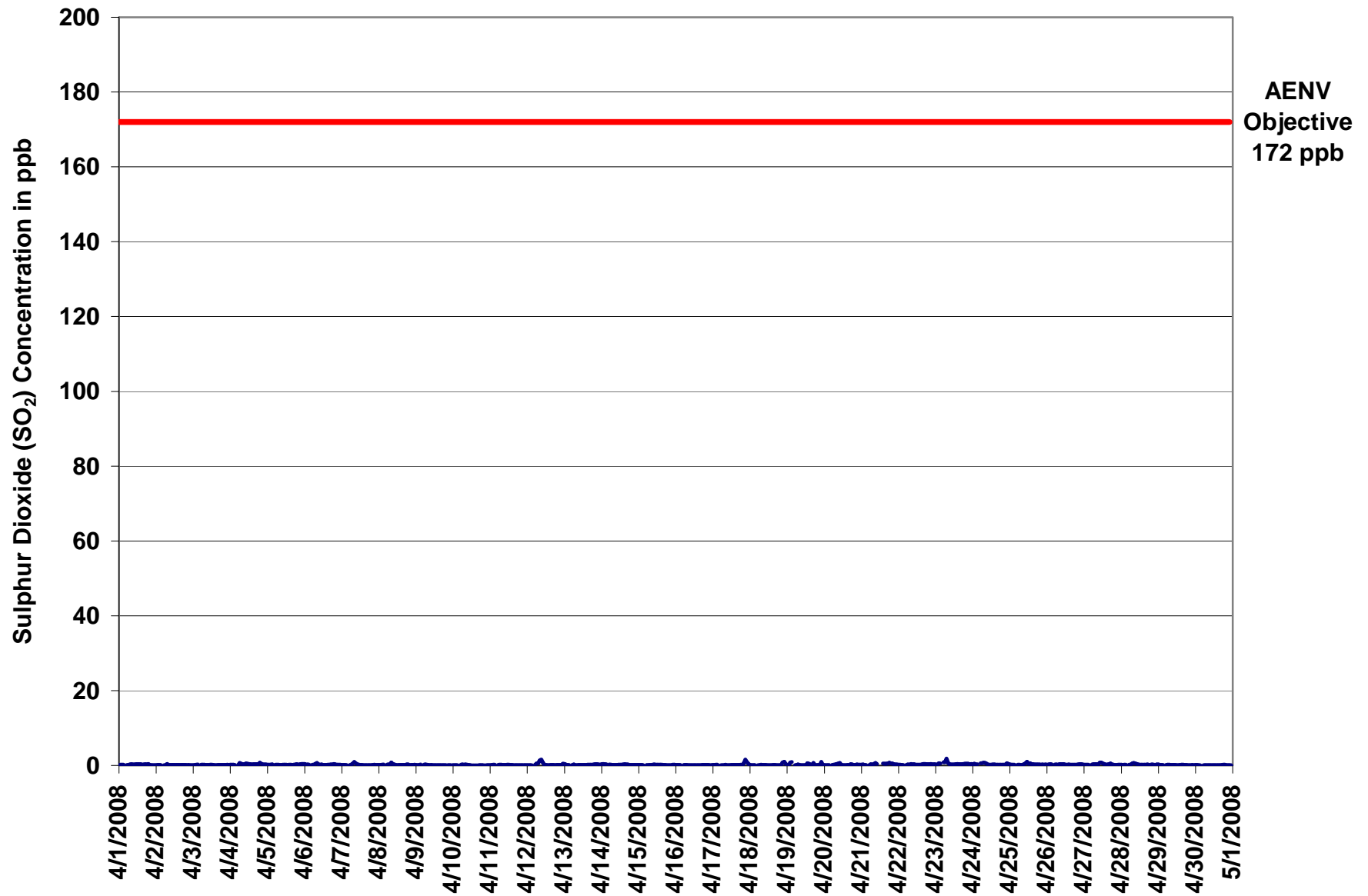


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

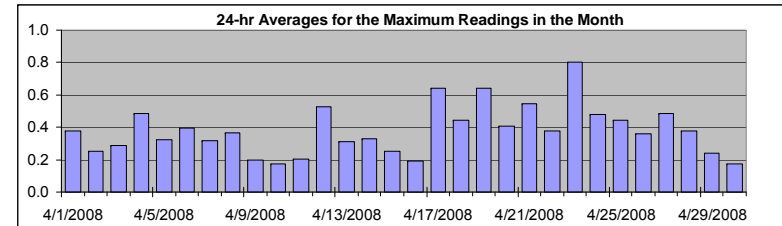
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	3.5	ppb	23-Apr	7:00 8:00
Maximum 24-hr Value:	0.8	ppb	23-Apr	

AIC Time:	31 hrs	Operational Time:	687 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	0.9	0.4	0.3	0.2	0.1	0.1	0.4 ppb	0.3 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0.4	1.0
2-Apr-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
3-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	1.2
4-Apr-08	0	0	0	0	A	0	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0.5	1.0
5-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	0.6
6-Apr-08	1	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.9
7-Apr-08	0	0	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.5
8-Apr-08	0	0	0	0	A	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.7
9-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
11-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
12-Apr-08	0	0	0	0	A	0	1	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	2.7
13-Apr-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.7
14-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0.3	0.6
15-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
16-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
17-Apr-08	0	0	0	0	A	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	3	3	2	1	0.6	3.5
18-Apr-08	0	0	0	0	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2	2	0.4	1.8
19-Apr-08	0	0	2	3	A	0	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	3	0	0.6	2.7
20-Apr-08	0	0	0	0	A	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9
21-Apr-08	0	0	0	0	A	0	0	0	1	1	1	C	C	A	1	1	1	1	1	1	1	0	0	0	0.5	1.4
22-Apr-08	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0.4	0.6
23-Apr-08	0	0	1	1	A	1	3	3	1	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0.8	3.5
24-Apr-08	0	1	0	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	0.9
25-Apr-08	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.2
26-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
27-Apr-08	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0.5	1.4
28-Apr-08	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
29-Apr-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
Hourly Avg	0.3	0.3	0.3	0.4	N	0.3	0.4	0.6	0.6	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.5	0.4		
Hourly Max	0.7	0.8	1.8	2.7	0.0	1.2	2.7	3.5	2.7	2.2	1.9	1.2	1.8	1.0	0.7	0.6	1.2	1.4	1.4	1.0	2.7	3.5	2.7	1.6		

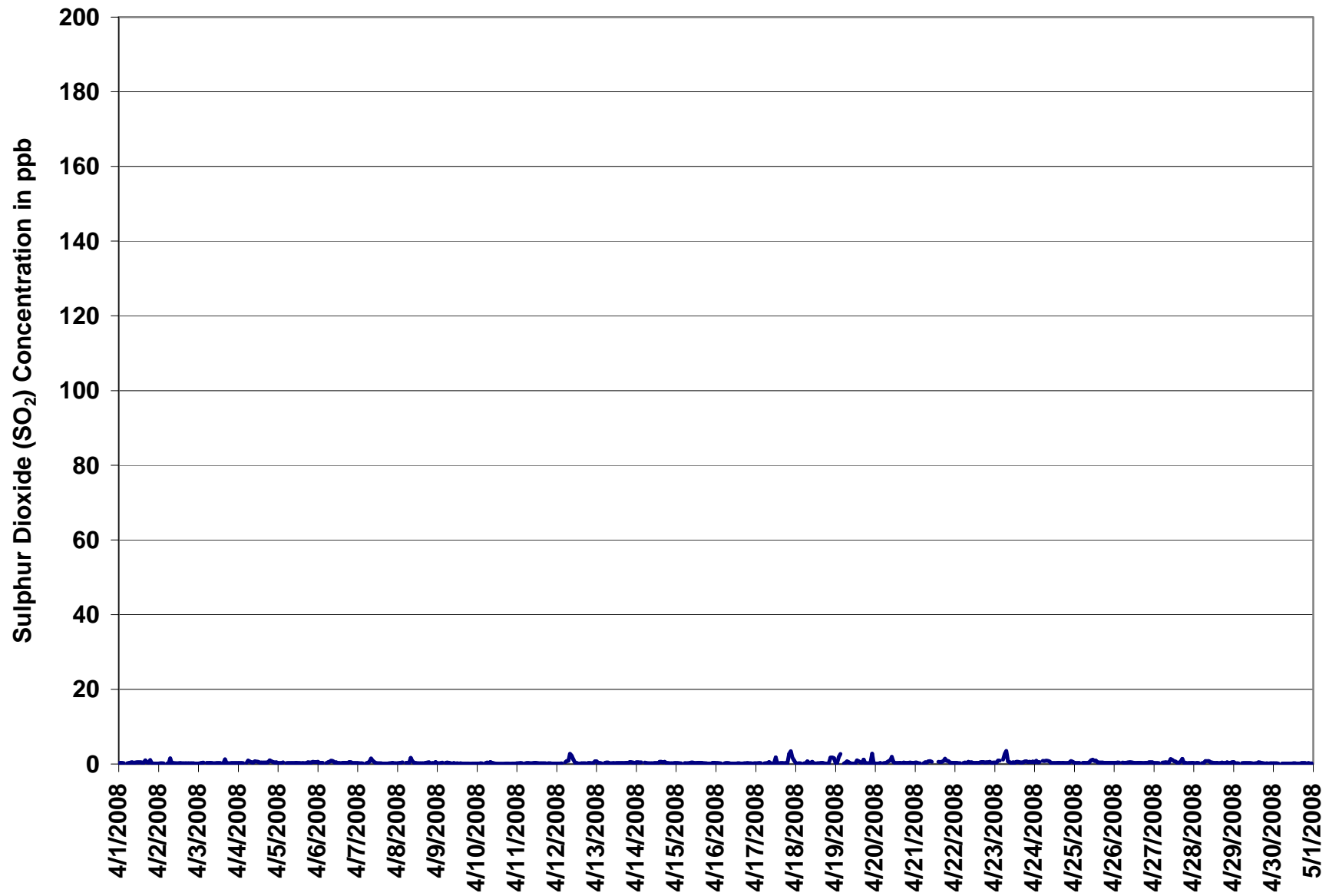
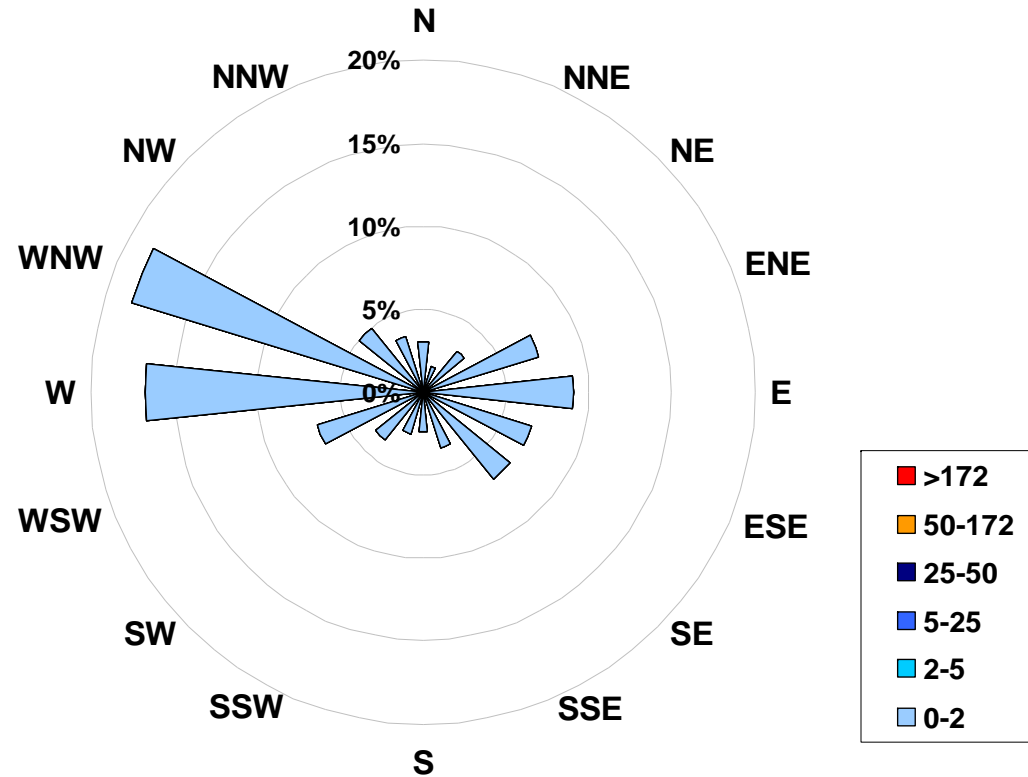


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		687
2	to 5		0
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			687

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

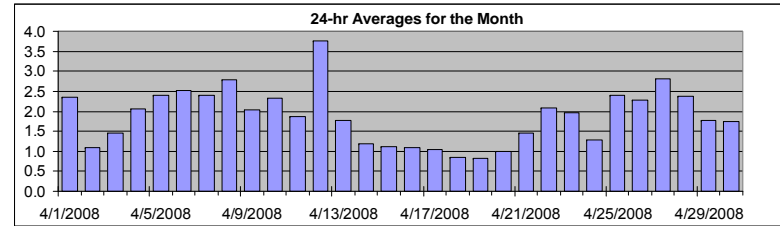
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	8.9	ppb	12-Apr	7:00 8:00
Maximum 24-hr Average:	3.8	ppb	12-Apr	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.9	4.8	2.3	1.3	0.9	0.9	0.6	1.9 ppb	1.3 ppb

Status Flag Characters	
C	Calibration
S	Instrument out of Service
N	No Data
D	Excessive Instrument Drift
A	AIC - Zero / Span Check
X	Filter Exchange
M	Equipment Maintenance
P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	6	7	5	6	A	3	4	4	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2.4	6.9
2-Apr-08	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	2.0
3-Apr-08	1	1	1	1	A	6	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	5.6
4-Apr-08	1	3	4	4	A	3	4	4	3	2	1	1	1	1	1	1	1	1	1	1	2	3	1	2	2	2.1	4.3
5-Apr-08	2	3	2	3	A	4	3	3	4	3	3	3	2	1	2	2	2	2	1	1	1	4	2	2	3	2.4	3.7
6-Apr-08	2	2	5	6	A	2	2	2	3	3	2	2	3	2	2	2	2	2	2	2	2	2	3	3	2	2.5	5.8
7-Apr-08	2	3	4	3	A	3	4	4	4	3	2	1	1	1	1	1	1	1	1	1	2	3	4	3	2	2.4	4.5
8-Apr-08	2	2	2	2	A	5	5	5	7	7	5	2	1	1	1	1	1	1	2	2	1	2	4	3	2.8	6.9	
9-Apr-08	3	3	3	3	A	3	3	6	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2.0	5.8
10-Apr-08	2	2	3	3	A	6	8	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	5	2.3	7.8	
11-Apr-08	4	5	4	3	A	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1.9	5.3
12-Apr-08	1	2	2	4	A	4	7	9	8	8	6	3	3	2	2	2	3	3	2	2	3	3	2	3	4	3.8	8.9
13-Apr-08	5	5	4	3	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2	1.8	5.0
14-Apr-08	1	1	1	1	A	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	3.3
15-Apr-08	1	1	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.1	2.2
16-Apr-08	2	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.1
17-Apr-08	1	1	3	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.5
18-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
19-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
20-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	2.3
21-Apr-08	3	3	2	2	A	1	2	2	2	2	2	C	C	C	C	A	0	0	0	0	0	2	1	1	1.4	3.5	
22-Apr-08	1	1	1	5	A	2	3	3	2	1	1	1	1	1	1	1	1	1	2	5	6	3	3	3	2.1	5.6	
23-Apr-08	5	4	3	4	A	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.0	4.8
24-Apr-08	1	2	2	2	A	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.0
25-Apr-08	3	4	2	2	A	6	6	5	3	3	3	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2.4	6.4
26-Apr-08	2	3	3	3	A	3	3	5	6	3	2	2	1	1	1	1	1	1	1	1	2	3	2	2	2	2.3	6.3
27-Apr-08	3	3	3	4	A	4	6	4	4	4	4	3	2	1	1	2	1	2	1	2	1	2	2	2	2	2.8	6.0
28-Apr-08	2	2	2	3	A	3	3	5	6	4	3	2	1	2	1	1	1	1	2	2	2	3	2	2	2	2.4	5.6
29-Apr-08	2	1	2	2	A	2	2	3	2	2	2	2	1	1	1	1	2	3	2	1	2	2	2	1	1.8	3.5	
30-Apr-08	1	2	1	2	A	2	1	1	1	1	2	2	2	2	2	2	3	3	2	2	2	2	2	1	1	1.8	3.0
Hourly Avg	2.1	2.4	2.3	2.7	N	2.8	3.1	3.0	2.5	2.0	1.8	1.4	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.6	1.8	1.8	1.7	1.8		
Hourly Max	6.3	6.9	5.5	6.3	0.0	6.4	7.8	8.9	7.8	7.7	6.3	4.0	3.4	2.5	2.2	2.9	2.9	3.0	2.1	4.6	5.6	4.4	3.7	5.1			

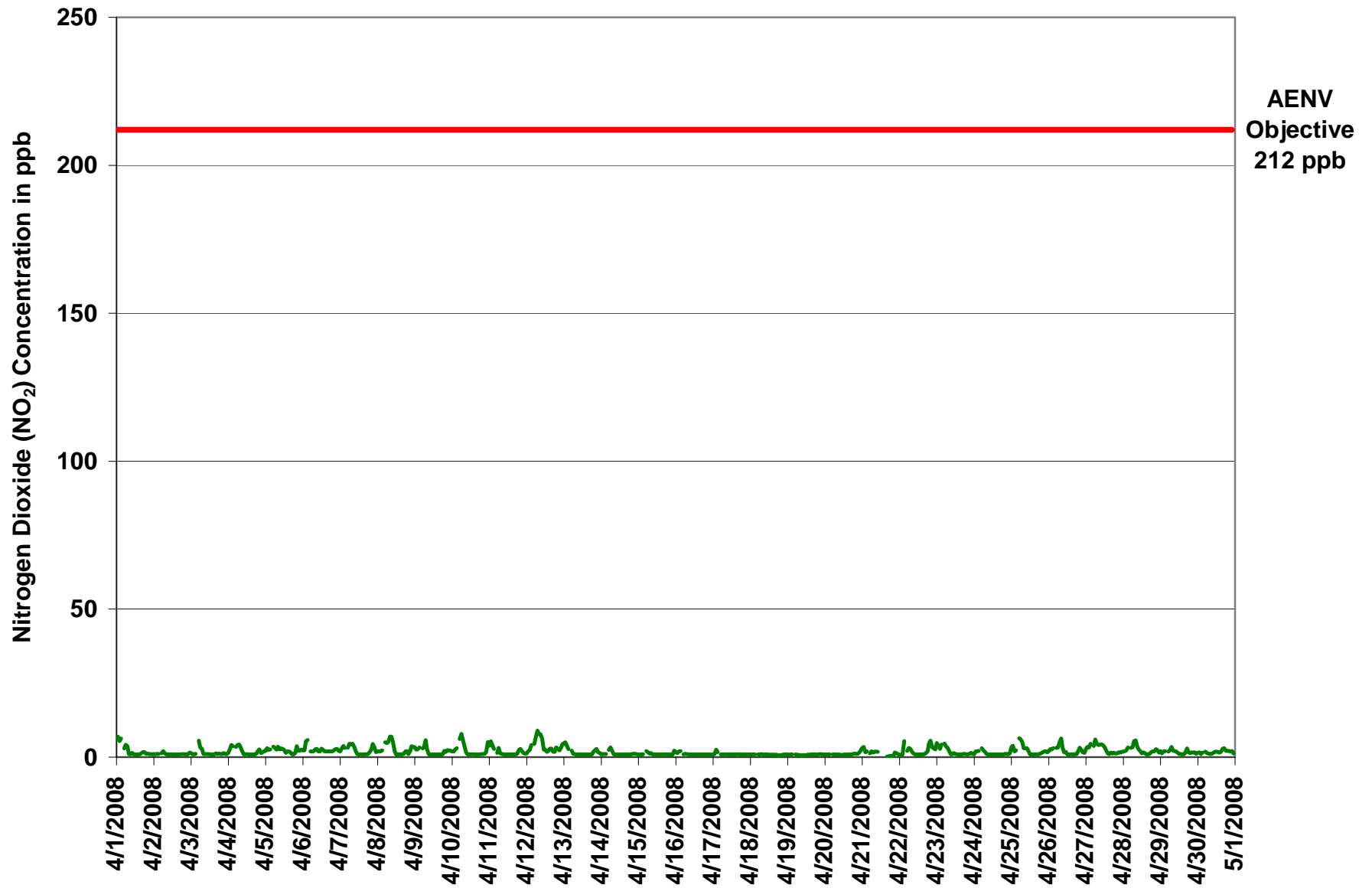


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

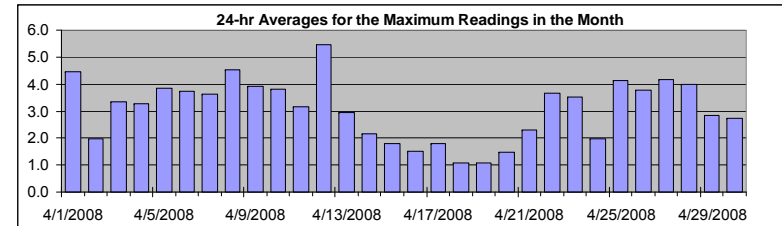
Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	14.1	ppb	6-Apr	2:00 3:00
Maximum 24-hr Value:	5.5	ppb	12-Apr	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.0	8.8	4.0	2.0	1.2	0.9	0.9	3.1 ppb	2.0 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Apr-08	9	9	8	10	A	6	7	7	2	2	5	1	1	1	1	2	9	3	3	3	7	3	2	2	4.5	10.0
2-Apr-08	4	2	2	2	A	3	4	3	2	1	1	1	1	1	1	2	1	2	2	3	2	2	2	2	2.0	4.0
3-Apr-08	2	2	2	2	A	12	10	5	2	2	2	3	2	1	1	1	10	2	4	2	3	2	2	2	3.3	12.1
4-Apr-08	2	5	6	4	A	4	5	9	5	3	3	2	2	2	1	1	1	1	2	4	5	2	3	3	3.3	9.0
5-Apr-08	3	5	4	4	A	6	5	3	5	4	3	3	4	3	3	3	4	2	2	2	11	3	4	3	3.8	11.0
6-Apr-08	3	4	14	11	A	3	2	3	3	4	3	2	4	3	2	2	2	2	2	3	5	4	3	3	3.7	14.1
7-Apr-08	2	4	4	4	A	5	8	6	6	4	4	2	1	2	1	1	2	2	2	3	3	7	8	3	3.6	8.0
8-Apr-08	3	2	2	3	A	9	7	7	9	11	10	3	1	1	2	2	1	2	2	5	2	5	8	8	4.5	11.1
9-Apr-08	7	6	5	6	A	9	7	8	8	2	1	1	2	1	1	1	1	1	4	5	4	4	4	3	3.9	9.0
10-Apr-08	3	2	4	4	A	10	12	9	6	2	2	2	2	1	2	1	1	1	2	3	3	3	4	10	3.8	12.0
11-Apr-08	5	6	5	4	A	3	4	3	2	1	1	1	2	1	3	1	2	2	3	7	7	4	4	2	3.2	7.0
12-Apr-08	2	3	3	8	A	6	10	11	9	11	11	3	4	2	4	5	5	3	3	6	4	3	4	5	5.5	11.1
13-Apr-08	5	6	6	4	A	5	2	2	2	1	2	1	1	1	1	1	2	1	1	6	5	6	4	4	3.0	6.4
14-Apr-08	2	3	2	3	A	4	7	5	2	1	1	1	1	1	1	1	1	2	2	1	3	3	3	2	2.2	6.6
15-Apr-08	1	1	2	2	A	4	3	2	2	2	1	1	1	1	2	1	2	2	1	2	1	2	5	1.8	5.0	
16-Apr-08	3	3	3	3	A	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	3.0
17-Apr-08	2	3	5	3	A	1	1	3	2	1	2	1	3	1	1	2	2	2	1	1	1	1	2	1	1.8	5.0
18-Apr-08	1	1	1	1	A	1	1	2	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1.1	2.0
19-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1.1	2.0
20-Apr-08	1	1	2	1	A	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	1.5	3.0
21-Apr-08	5	5	2	3	A	3	3	2	2	3	2	C	C	C	C	A	0	0	0	0	0	5	3	3	2.3	5.0
22-Apr-08	1	1	2	9	A	3	5	5	3	3	2	1	1	2	2	1	2	3	4	10	12	5	4	4	3.7	12.0
23-Apr-08	12	7	5	7	A	7	6	6	4	2	2	2	2	2	1	1	1	2	2	2	3	2	2	2	3.5	12.0
24-Apr-08	4	3	3	3	A	4	3	2	2	1	1	1	1	1	1	1	1	1	1	2	3	4	2	2	2.0	4.0
25-Apr-08	5	7	3	5	A	14	13	6	5	4	4	3	1	1	1	2	2	2	2	3	4	3	3	3	4.1	14.1
26-Apr-08	4	4	3	4	A	4	5	9	10	5	2	2	2	1	1	1	1	2	3	5	6	7	3	3	3.8	10.0
27-Apr-08	5	5	4	5	A	6	7	7	5	5	9	5	4	5	2	2	2	2	2	2	2	3	2	5	4.2	9.0
28-Apr-08	3	3	3	8	A	5	5	13	10	4	4	3	2	2	2	2	1	2	3	2	2	5	5	3	4.0	13.4
29-Apr-08	3	3	4	3	A	3	4	6	3	3	3	2	2	2	1	1	3	5	3	3	3	2	2	2	2.8	6.0
30-Apr-08	2	2	2	2	A	3	2	2	2	2	4	3	3	2	2	5	5	3	3	3	3	3	4	3	2.7	5.0
Hourly Avg	3.5	3.6	3.7	4.3	N	4.9	5.1	5.0	3.9	2.9	3.0	1.8	1.8	1.5	1.5	1.5	2.2	2.0	2.1	3.0	3.6	3.3	3.1	3.1		
Hourly Max	12.0	9.0	14.1	11.0	0.0	14.1	12.7	13.4	10.0	11.1	11.1	4.9	4.0	5.0	4.0	5.0	10.5	5.0	4.0	10.0	12.0	7.0	8.0	10.0		

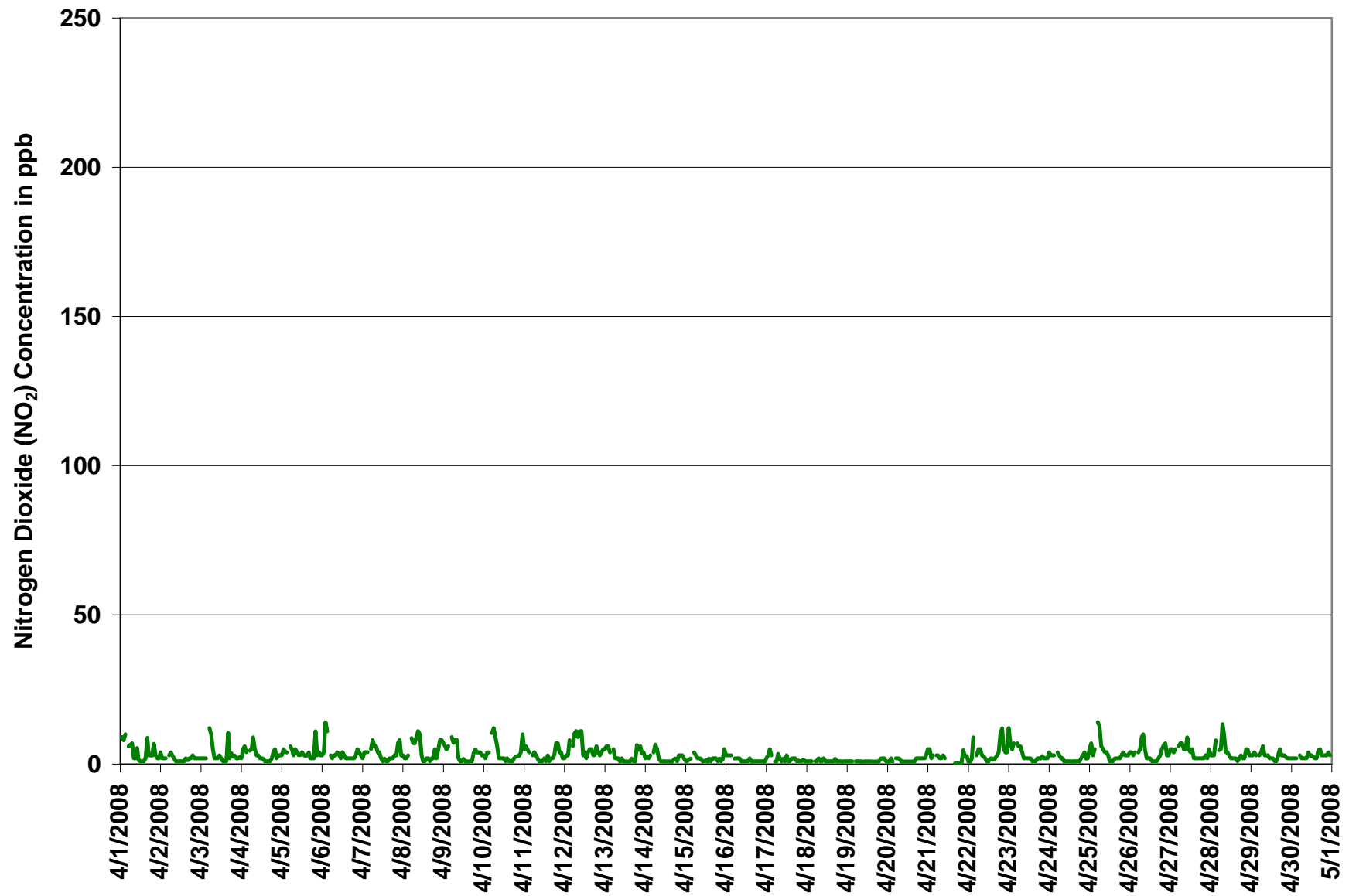
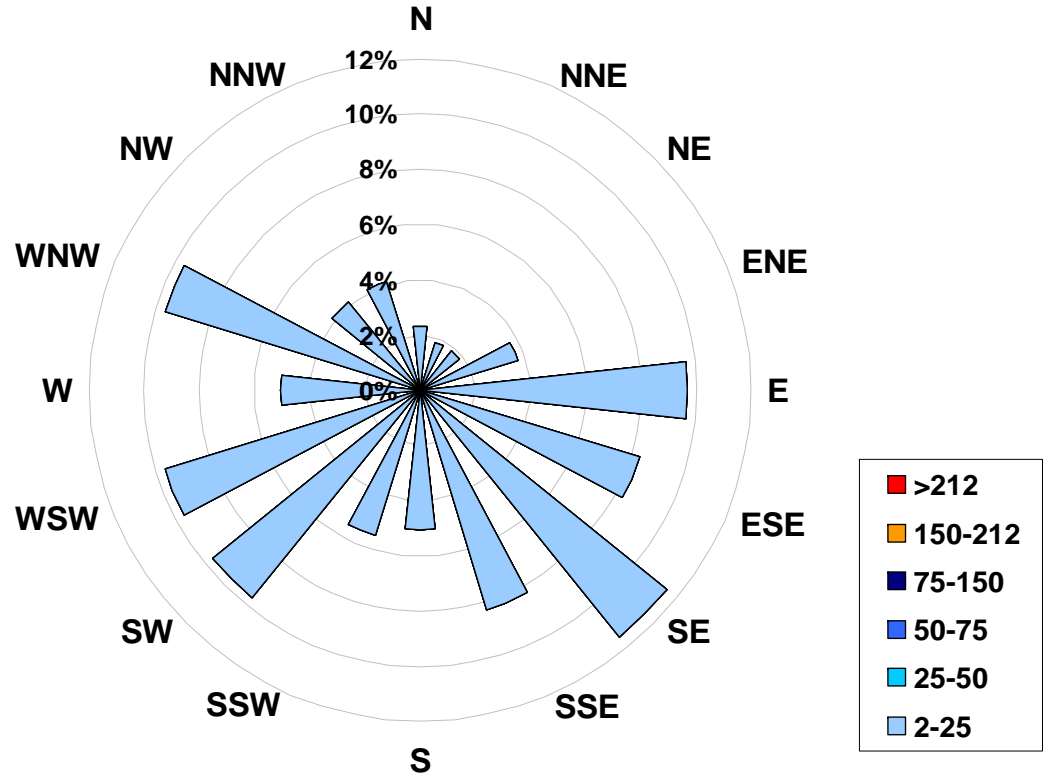


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for April 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	685	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		685	

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

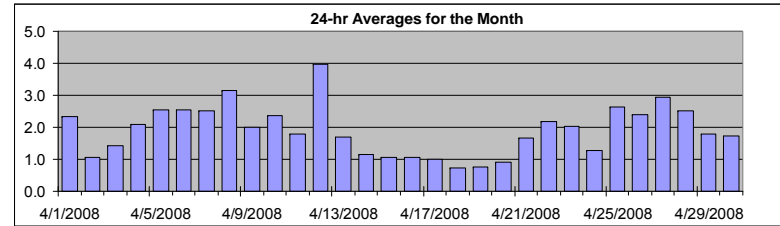
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2008 to May 1, 2008

Guideline Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb

Maximum 1-hr Average:	10.0	ppb	8-Apr	9:00 10:00
Maximum 24-hr Average:	4.0	ppb	12-Apr	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.1	5.1	2.3	1.2	0.9	0.7	0.5	1.9 ppb	1.2 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	6	7	5	6	A	3	4	4	1	1	2	1	1	1	1	1	1	2	2	1	1	1	1	1	2.3	6.8
2-Apr-08	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.0
3-Apr-08	1	1	1	1	A	6	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	5.5
4-Apr-08	1	3	4	3	A	3	4	5	4	2	1	1	1	1	1	1	1	1	1	2	3	1	2	2	2.1	4.7
5-Apr-08	2	3	2	3	A	4	3	3	4	4	4	3	3	2	2	2	2	1	1	1	4	2	2	3	2.6	4.3
6-Apr-08	2	2	5	6	A	2	2	2	3	3	2	2	3	3	2	2	2	2	2	2	3	3	2	2	2.5	5.7
7-Apr-08	2	3	4	3	A	3	5	5	6	5	3	1	1	1	1	1	1	1	1	2	2	4	3	2	2.5	5.7
8-Apr-08	2	2	2	2	A	5	5	6	9	10	7	3	1	1	1	1	1	2	2	1	2	4	3	3	3.2	10.0
9-Apr-08	3	2	3	3	A	3	3	6	3	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2.0	6.1
10-Apr-08	2	2	2	3	A	6	8	7	4	2	1	1	1	1	1	1	1	1	1	1	1	2	5	2.4	8.0	
11-Apr-08	4	5	4	3	A	1	3	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1.8	5.2
12-Apr-08	1	2	2	4	A	4	7	9	9	9	8	3	3	2	2	3	3	2	2	3	3	2	3	4	4.0	9.2
13-Apr-08	5	5	4	3	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	1	1	1.7	4.8
14-Apr-08	1	1	1	1	A	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	3.3
15-Apr-08	1	1	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.1	2.2
16-Apr-08	2	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.0
17-Apr-08	1	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.5
18-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0.7	1.2
19-Apr-08	1	1	1	1	A	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
20-Apr-08	0	0	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	0.9	2.1	
21-Apr-08	3	3	1	2	A	1	2	2	2	2	2	C	C	C	C	A	1	1	1	1	1	2	1	1	1.7	3.4
22-Apr-08	1	1	1	5	A	2	3	3	2	2	1	1	1	1	1	1	2	2	5	6	3	3	2	2.2	5.5	
23-Apr-08	5	4	3	4	A	5	4	4	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2.0	4.5
24-Apr-08	1	2	2	2	A	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.9
25-Apr-08	3	4	2	2	A	6	7	7	4	4	4	3	1	1	1	1	1	1	1	1	2	2	2	2	2.6	6.8
26-Apr-08	2	2	2	3	A	3	4	6	9	4	2	2	1	1	1	1	1	1	1	2	3	2	1	1	2.4	8.6
27-Apr-08	3	3	3	4	A	4	6	5	4	5	5	4	3	1	1	1	1	1	1	1	1	1	2	2.9	6.3	
28-Apr-08	2	2	2	3	A	3	4	6	7	4	3	2	1	2	1	1	1	1	2	2	3	2	1	1	2.5	7.2
29-Apr-08	2	1	2	2	A	2	2	4	3	3	2	2	1	1	1	1	2	3	2	1	1	1	1	1	1.8	4.1
30-Apr-08	1	1	1	2	A	2	1	1	1	1	2	2	2	2	2	2	3	3	2	2	2	2	2	1	1.7	3.1
Hourly Avg	2.0	2.3	2.2	2.6	N	2.8	3.2	3.4	3.0	2.5	2.1	1.5	1.3	1.2	1.1	1.1	1.2	1.2	1.2	1.5	1.7	1.7	1.6	1.7		
Hourly Max	6.1	6.8	5.3	6.2	0.0	6.4	8.0	9.2	9.2	10.0	8.4	4.8	3.8	3.0	2.2	3.0	3.2	3.1	2.1	4.7	5.5	4.2	3.5	4.9		

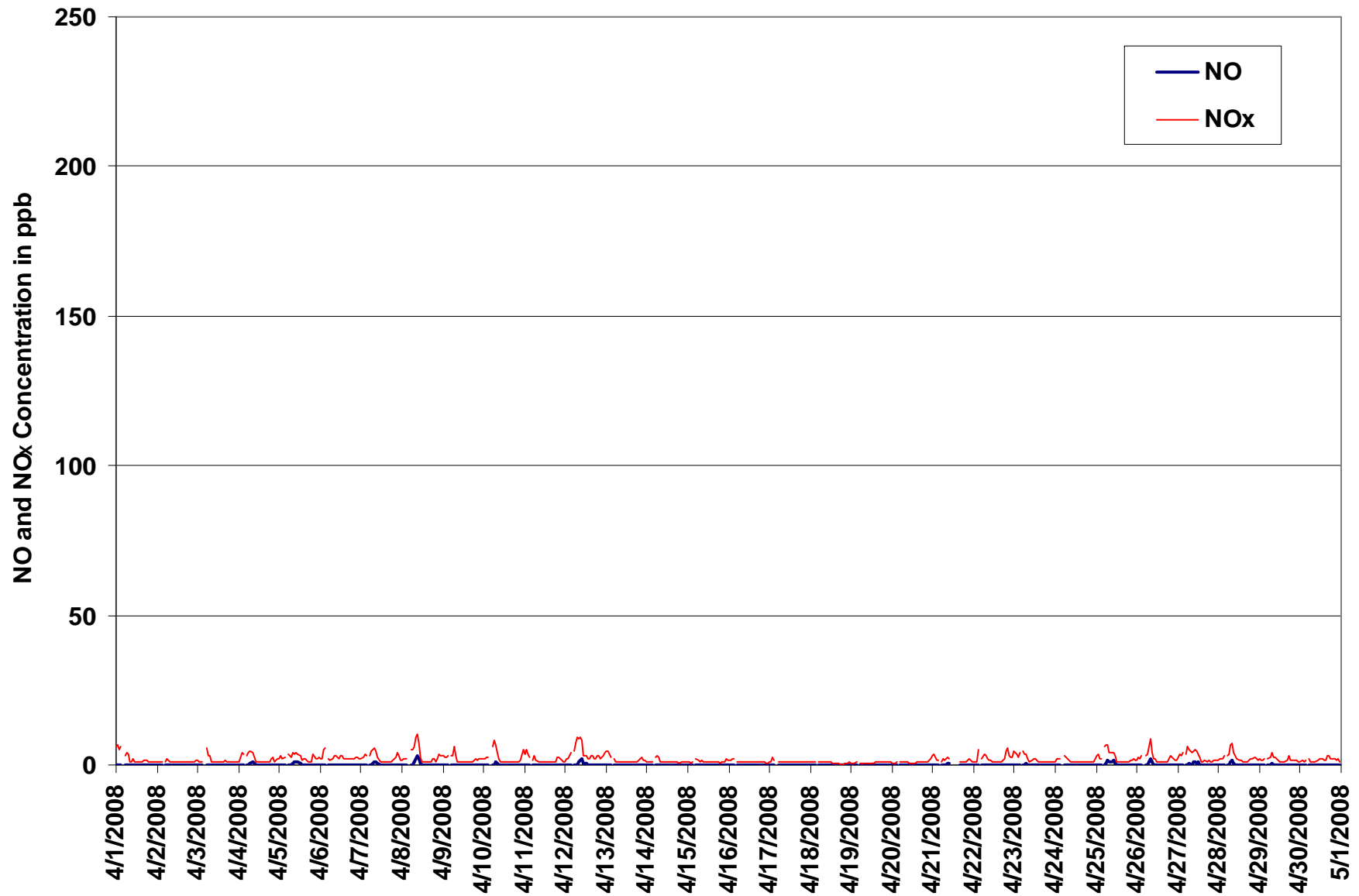


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

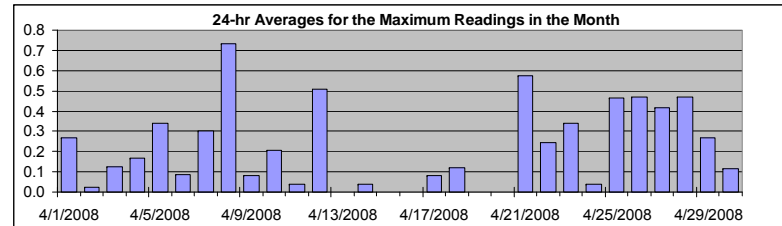
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	8.4	ppb	21-Apr	9:00 10:00
Maximum 24-hr Value:	0.7	ppb	8-Apr	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	0	0	0	0	A	0	0	1	0	0	3	0	0	0	0	0	2	0	0	0	1	0	0	0	0.3	2.5
2-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5
3-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0.1	2.8
4-Apr-08	0	0	0	0	A	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
5-Apr-08	0	0	0	0	A	0	0	0	1	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	2.0
6-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.1	1.0
7-Apr-08	0	0	0	0	A	0	0	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
8-Apr-08	0	0	0	0	A	0	0	2	3	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0.7	6.0
9-Apr-08	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
10-Apr-08	0	0	0	0	A	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.9
11-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0	0.9
12-Apr-08	0	0	0	0	A	0	0	1	1	3	4	1	1	0	0	0	1	0	0	0	0	0	0	0	0.5	3.9
13-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
14-Apr-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9
15-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
17-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.1	1.9
18-Apr-08	0	0	0	0	A	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
19-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
20-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
21-Apr-08	0	0	0	0	A	0	0	0	1	8	1	C	C	C	C	A	0	0	0	0	0	0	0	0	0.6	8.4
22-Apr-08	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0.2	1.0
23-Apr-08	0	0	0	0	A	0	1	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
24-Apr-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9
25-Apr-08	0	0	0	0	A	0	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.9
26-Apr-08	0	0	0	0	A	0	1	3	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.9
27-Apr-08	0	0	0	0	A	0	2	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.9
28-Apr-08	0	0	0	0	A	0	0	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.9
29-Apr-08	0	0	0	0	A	0	1	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
30-Apr-08	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
Hourly Avg	0.0	0.0	0.0	0.0	N	0.0	0.3	0.9	0.9	1.0	0.8	0.3	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.9	3.9	8.4	5.0	1.0	1.9	1.0	1.0	0.5	2.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

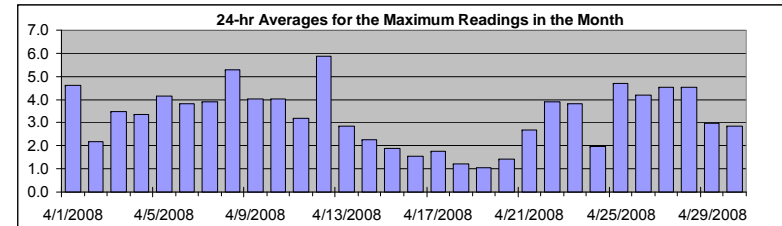
Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	19.0	ppb	28-Apr	7:00 8:00
Maximum 24-hr Value:	5.9	ppb	12-Apr	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.0	9.0	4.0	2.0	1.9	0.9	0.9	3.3 ppb	2.0 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	9	9	8	10	A	6	6	7	2	2	8	2	1	1	2	10	3	3	3	8	3	2	1	4.6	10.0	
2-Apr-08	4	2	2	2	A	3	4	3	2	2	2	2	1	2	2	2	2	2	3	2	2	2	2	2.2	4.0	
3-Apr-08	2	2	2	2	A	12	10	6	2	2	2	3	2	2	1	1	13	2	4	3	3	2	2	3.5	13.0	
4-Apr-08	2	5	6	4	A	4	5	10	6	4	3	3	2	2	1	1	1	1	2	4	5	2	3	3.4	9.6	
5-Apr-08	3	5	4	4	A	6	5	3	6	6	5	4	5	3	3	3	4	2	1	2	11	3	5	3	4.1	10.9
6-Apr-08	3	3	14	11	A	3	2	3	3	5	4	3	4	4	2	3	2	2	2	3	5	4	2	3.8	14.1	
7-Apr-08	2	3	4	4	A	4	9	8	8	6	5	2	1	2	2	1	2	2	2	3	3	7	8	3	3.9	8.7
8-Apr-08	3	2	2	3	A	8	7	9	12	17	15	4	2	1	2	2	1	2	2	5	2	5	8	8	5.3	17.1
9-Apr-08	7	6	4	6	A	9	7	9	9	3	1	1	2	1	1	1	1	2	4	5	4	4	3	4.0	9.0	
10-Apr-08	3	2	3	4	A	11	12	11	8	3	2	2	3	1	2	1	1	1	2	3	3	2	4	4.0	12.0	
11-Apr-08	4	6	5	4	A	3	4	3	2	1	1	1	2	1	3	1	3	2	4	7	7	4	4	3.2	7.0	
12-Apr-08	2	3	3	8	A	6	11	12	10	13	14	4	5	2	4	6	5	3	3	6	4	3	4	5	5.9	14.0
13-Apr-08	5	6	6	3	A	5	2	2	2	1	2	1	1	1	1	1	2	1	1	6	4	6	3	4	2.8	6.0
14-Apr-08	2	2	2	3	A	4	7	5	2	2	1	2	1	1	1	1	2	2	2	1	3	3	2	2.3	7.0	
15-Apr-08	1	1	2	2	A	4	3	2	2	2	2	1	2	2	2	1	2	2	2	1	2	1	1	5	1.9	5.0
16-Apr-08	3	3	3	3	A	2	2	2	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1.6	3.0
17-Apr-08	2	3	5	3	A	1	1	2	2	1	2	1	4	1	1	2	2	2	1	1	1	1	2	1	1.8	5.0
18-Apr-08	1	1	1	1	A	1	2	3	2	1	2	1	2	1	1	1	1	2	1	1	1	1	1	1	1.2	2.7
19-Apr-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1.1	2.0
20-Apr-08	1	1	1	1	A	1	2	2	1	1	1	1	1	1	1	2	1	2	2	2	2	2	2	3	1.4	3.0
21-Apr-08	5	5	2	3	A	2	3	3	2	5	3	C	C	C	C	A	1	1	1	1	1	5	3	3	2.7	5.0
22-Apr-08	1	1	2	9	A	3	6	6	3	3	2	2	2	2	2	2	4	4	10	12	5	4	4	3.9	12.0	
23-Apr-08	12	7	5	7	A	7	6	8	6	2	3	2	2	2	1	2	1	2	3	2	3	2	2	2	3.8	12.0
24-Apr-08	3	3	4	3	A	4	3	3	2	2	1	1	1	1	1	1	1	1	1	3	4	1	2	2.0	3.9	
25-Apr-08	5	7	3	5	A	14	14	8	8	6	6	5	2	1	1	2	2	2	3	4	3	3	3	4.7	14.3	
26-Apr-08	4	4	3	4	A	4	6	12	14	7	3	2	2	1	1	1	1	2	3	5	6	7	3	4.2	14.0	
27-Apr-08	5	5	4	5	A	6	8	8	6	6	11	5	5	7	2	2	2	2	2	2	2	3	2	5	4.5	10.9
28-Apr-08	3	3	3	8	A	5	5	19	14	6	5	3	2	2	2	2	1	2	3	2	2	5	5	3	4.5	19.0
29-Apr-08	3	3	4	3	A	3	5	8	4	3	3	2	2	2	1	1	3	5	3	3	3	2	2	3.0	7.9	
30-Apr-08	2	2	2	2	A	3	2	2	2	2	5	3	4	3	2	5	5	3	3	3	3	3	4	3	2.9	4.9
Hourly Avg	3.4	3.5	3.6	4.2	N	4.8	5.3	5.9	4.8	3.8	3.8	2.2	2.2	1.7	1.6	1.6	2.5	2.0	2.2	3.0	3.6	3.2	3.0	3.0		
Hourly Max	12.0	9.0	14.1	11.0	0.0	14.0	14.3	19.0	14.0	17.1	15.1	5.0	5.0	7.0	4.0	6.0	13.0	4.9	4.0	9.9	12.0	7.0	8.0	10.0		

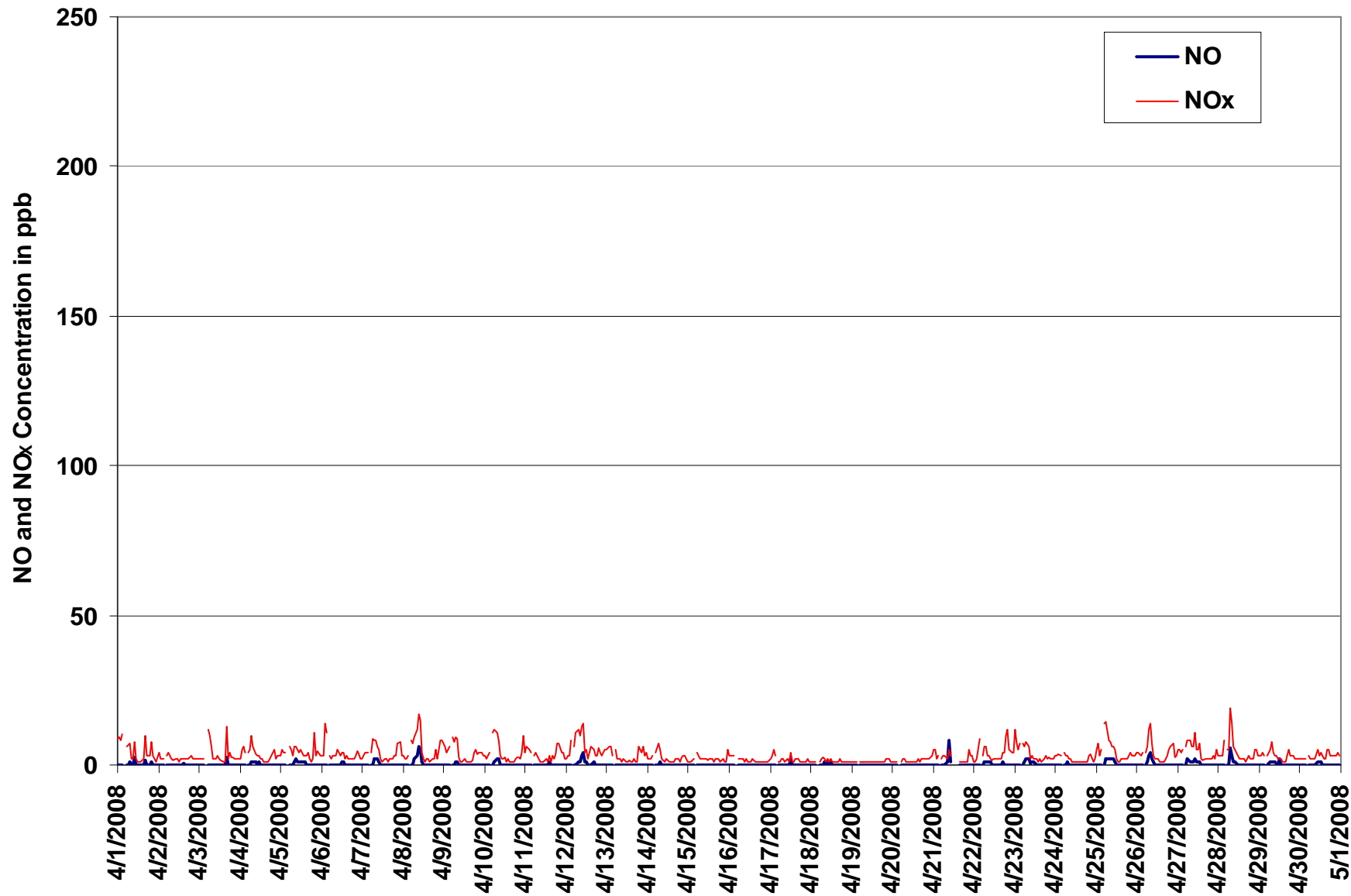


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

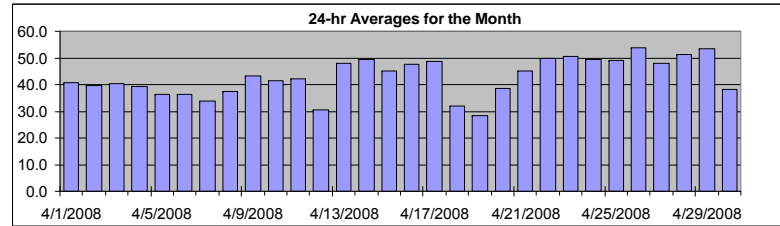
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	61.9 ppb	29-Apr	15:00 16:00
Maximum 24-hr Average:	53.8 ppb	26-Apr	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	59.9	56.3	49.4	43.4	36.8	28.8	23.8	42.9 ppb	43.4 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Apr-08	32	32	33	32	A	36	35	36	42	43	44	46	47	47	47	47	46	45	44	43	41	40	40	39	40.7	47.1	
2-Apr-08	38	38	37	37	A	38	36	38	39	40	41	42	43	43	42	42	41	41	40	39	38	39	39	37	39.5	42.6	
3-Apr-08	37	38	38	39	A	34	37	39	41	41	42	42	43	43	44	43	42	42	42	42	40	40	40	40	40.5	43.5	
4-Apr-08	39	35	33	31	A	32	32	30	35	38	43	43	44	45	45	45	45	44	43	42	41	41	40	37	39.3	45.0	
5-Apr-08	34	31	31	28	A	30	32	30	28	30	32	35	40	45	44	46	45	46	45	40	35	35	35	37	36.2	45.9	
6-Apr-08	37	36	31	26	A	34	35	34	37	36	38	40	37	39	42	43	42	40	40	38	36	34	32	32	36.4	42.9	
7-Apr-08	32	30	29	26	A	23	20	19	21	27	35	42	43	43	43	43	43	42	40	39	35	33	33	36	33.8	43.4	
8-Apr-08	34	34	33	32	A	29	29	27	31	33	35	41	45	45	45	45	46	45	43	41	42	40	35	34	37.5	45.7	
9-Apr-08	32	30	28	32	A	40	41	39	40	47	48	48	48	51	51	51	51	50	49	45	46	45	43	40	43.4	51.4	
10-Apr-08	40	34	33	33	A	27	27	31	38	45	49	50	50	50	49	50	50	49	48	44	43	41	38	35	41.6	50.5	
11-Apr-08	37	33	36	38	A	39	38	40	41	45	48	49	49	49	49	50	50	48	43	39	37	38	39	37	42.2	50.2	
12-Apr-08	36	32	31	30	A	29	25	23	23	24	26	32	32	32	31	28	30	36	36	34	34	34	33	31	30.5	36.4	
13-Apr-08	30	30	30	32	A	31	42	51	57	56	54	53	53	55	55	56	58	58	56	52	49	49	48	46	47.9	58.3	
14-Apr-08	48	47	47	47	A	45	41	44	49	50	51	53	54	55	54	52	53	53	52	52	49	47	46	48	49.4	54.7	
15-Apr-08	49	48	46	45	A	42	42	43	44	45	46	47	47	47	47	47	47	47	46	45	44	43	41	37	45.1	48.5	
16-Apr-08	39	42	41	41	A	47	48	48	48	49	49	49	49	49	49	49	49	49	50	49	50	50	51	51	47.7	51.3	
17-Apr-08	50	50	46	48	A	53	53	51	52	53	52	52	52	52	52	52	51	50	47	46	44	40	38	38	48.8	53.3	
18-Apr-08	37	38	38	40	A	37	34	32	32	31	30	31	30	31	30	30	30	31	31	31	31	30	28	26	32.1	39.6	
19-Apr-08	25	25	25	25	A	25	24	24	24	24	24	25	27	29	29	31	32	32	33	33	34	34	33	32	28.5	33.7	
20-Apr-08	35	35	35	36	A	37	37	37	37	37	37	38	38	39	41	41	41	41	40	40	40	41	41	42	42	38.5	41.6
21-Apr-08	39	38	39	38	A	39	39	40	40	41	44	46	47	48	48	48	51	50	51	53	52	50	48	50	45.3	52.6	
22-Apr-08	51	51	50	44	A	47	45	43	C	C	C	A	51	52	52	53	54	53	53	50	48	49	49	51	49.7	53.6	
23-Apr-08	46	46	49	47	A	47	49	48	50	52	52	52	54	55	56	56	56	54	52	51	49	48	46	47	50.5	56.2	
24-Apr-08	50	46	46	45	A	45	46	47	47	48	49	50	51	52	53	53	54	54	54	51	49	49	49	48	49.3	53.9	
25-Apr-08	44	42	45	46	A	41	36	35	43	46	48	51	55	57	57	57	57	57	56	55	52	48	48	49	49.0	57.5	
26-Apr-08	52	50	51	50	A	49	46	44	43	48	54	57	60	61	60	60	59	59	58	58	56	56	56	53	53.8	60.6	
27-Apr-08	50	46	45	42	A	41	39	41	42	40	42	45	48	54	60	60	58	54	55	53	51	48	47	47	48.0	60.0	
28-Apr-08	47	42	44	44	A	41	42	41	41	45	50	52	55	56	58	59	61	59	57	58	57	54	55	56	51.2	60.6	
29-Apr-08	54	54	55	53	A	52	48	44	53	54	55	58	60	61	62	62	59	53	49	47	48	49	49	49	53.3	61.9	
30-Apr-08	49	47	46	45	A	44	45	45	46	45	41	37	36	37	37	36	32	31	31	30	31	29	29	29	38.1	48.6	
Hourly Avg	40.7	39.4	39.1	38.4	N	38.4	38.1	38.1	40.2	41.9	43.4	45.0	46.3	47.4	47.8	48.0	47.8	47.1	46.2	44.6	43.4	42.3	41.5	41.1			
Hourly Max	53.7	54.2	54.9	53.0	0.0	53.1	53.0	51.1	56.5	55.9	55.1	57.8	59.9	60.8	61.8	61.9	60.6	58.9	58.2	58.3	56.8	56.0	55.8	56.2			

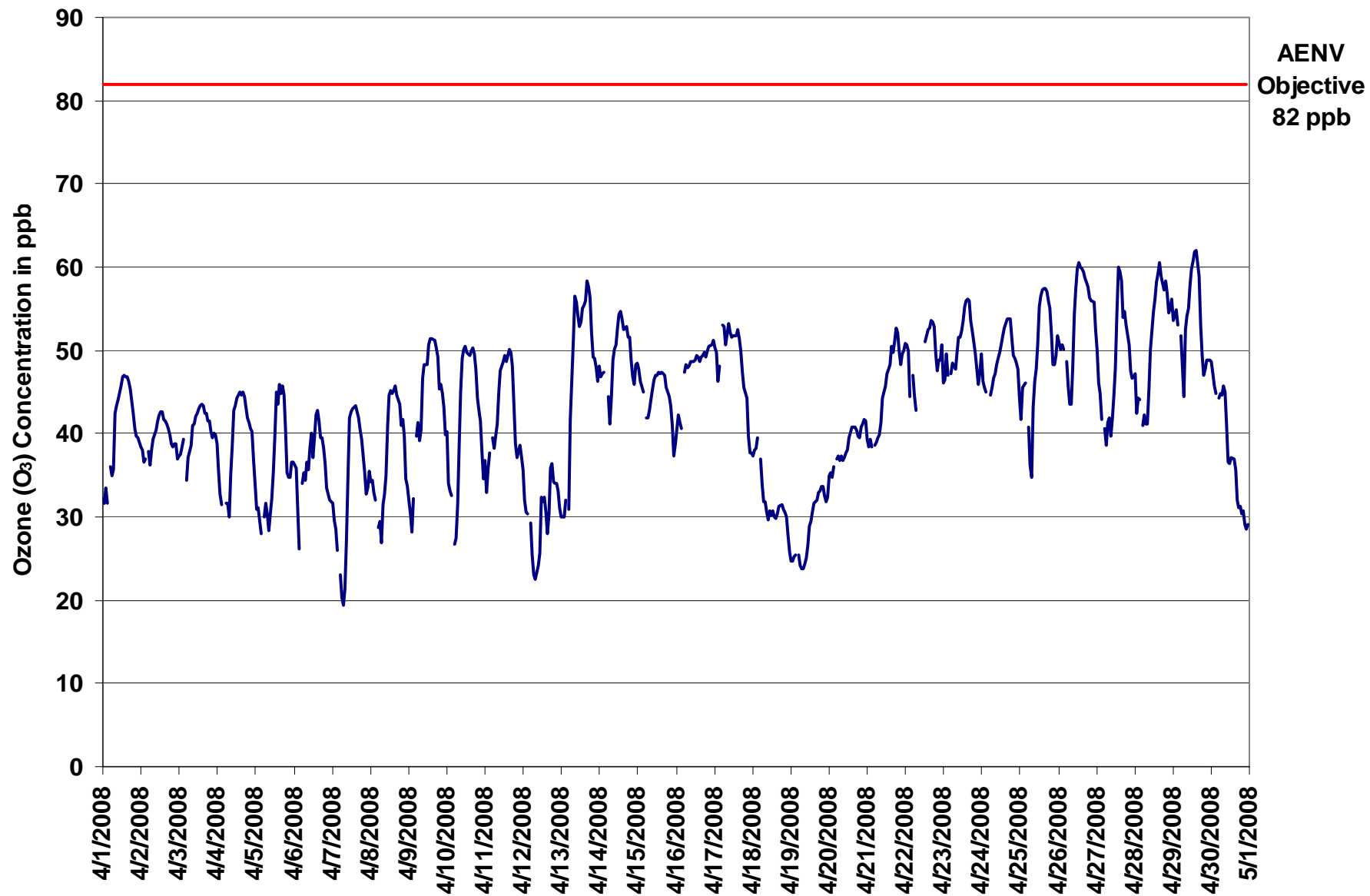


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

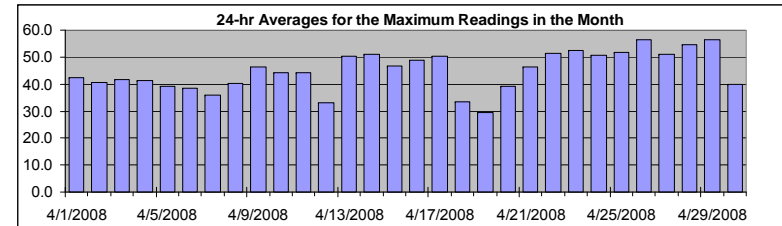
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	63.9	ppb	28-Apr	22:00 23:00
Maximum 24-hr Value:	56.5	ppb	29-Apr	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	61.8	59.1	51.0	45.8	38.6	30.9	25.2	44.9 ppb	45.8 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	33	33	36	35	A	38	38	43	43	45	46	47	48	48	48	48	47	46	45	42	41	41	40	42.4	48.0	
2-Apr-08	40	39	39	40	A	40	39	40	41	41	42	43	43	43	43	42	42	42	41	40	39	40	40	39	40.7	43.2
3-Apr-08	39	39	40	40	A	37	40	42	42	42	43	43	44	44	44	44	44	43	43	41	41	41	41	41	41.8	44.4
4-Apr-08	41	38	34	34	A	33	34	37	38	43	44	45	45	45	46	46	46	46	45	45	45	43	44	39	41.5	46.2
5-Apr-08	40	34	33	31	A	36	34	32	30	32	34	37	49	48	46	47	47	48	47	43	41	37	37	37	39.2	49.3
6-Apr-08	38	37	36	29	A	37	37	37	38	39	40	42	39	42	44	45	44	41	40	40	38	36	33	32	38.5	44.6
7-Apr-08	33	31	30	29	A	25	22	22	26	32	42	43	44	44	45	44	44	43	42	41	39	35	36	36	36.0	44.7
8-Apr-08	37	36	35	35	A	33	31	31	34	36	38	45	46	46	46	46	47	46	45	44	43	42	38	39	40.1	47.1
9-Apr-08	36	35	36	34	A	44	44	43	45	48	49	49	50	54	54	53	52	51	51	48	47	51	45	43	46.2	54.3
10-Apr-08	43	38	35	34	A	31	31	35	45	49	51	51	52	51	51	51	51	49	47	44	44	40	37	44.1	52.4	
11-Apr-08	38	35	40	40	A	41	40	41	44	46	49	50	50	50	50	51	51	50	46	41	40	41	39	44.2	51.1	
12-Apr-08	38	36	33	33	A	31	28	26	28	27	33	34	33	33	32	30	34	38	38	36	36	35	34	33	33.1	38.5
13-Apr-08	31	31	32	34	A	34	51	56	58	57	56	54	55	56	57	58	60	60	58	56	51	52	50	49	50.3	60.2
14-Apr-08	49	48	48	49	A	46	44	48	50	51	52	55	55	56	56	54	54	54	53	53	52	49	47	50	51.0	55.7
15-Apr-08	50	49	48	46	A	44	44	44	46	47	47	48	48	48	48	49	49	48	48	46	46	45	43	40	46.6	50.3
16-Apr-08	42	44	43	42	A	49	50	50	49	49	49	50	50	50	50	50	51	50	51	51	51	52	52	52	49.0	51.8
17-Apr-08	52	51	50	51	A	54	55	53	53	56	54	53	53	53	53	54	53	51	51	47	46	42	39	39	50.5	55.8
18-Apr-08	38	39	39	41	A	38	36	33	33	31	31	32	31	31	31	31	32	33	32	32	32	31	29	28	33.3	40.8
19-Apr-08	25	26	26	26	A	26	25	24	25	25	26	29	30	30	32	33	33	33	34	35	35	34	33	34	29.5	34.9
20-Apr-08	35	36	35	38	A	38	38	38	38	37	38	39	39	40	42	42	41	41	40	41	41	42	43	43	39.3	43.2
21-Apr-08	42	40	40	39	A	39	40	40	40	43	46	47	48	48	50	51	50	52	53	52	52	50	50	51	46.3	53.2
22-Apr-08	51	51	50	49	A	48	47	44	C	C	C	A	52	52	53	54	55	55	54	53	51	52	50	53	51.3	54.5
23-Apr-08	53	50	52	51	A	50	50	50	51	52	52	54	55	56	57	57	57	55	53	52	51	49	47	49	52.4	57.4
24-Apr-08	50	50	47	47	A	46	47	48	49	50	50	51	52	53	54	54	54	55	55	54	51	50	49	49	50.6	54.8
25-Apr-08	48	46	48	48	A	46	40	40	47	48	50	54	57	58	59	59	59	58	58	57	57	50	51	53	51.7	59.3
26-Apr-08	53	51	51	51	A	52	48	46	46	52	57	59	61	62	61	62	61	60	60	59	59	60	61	61	56.4	62.0
27-Apr-08	55	49	48	43	A	43	42	47	45	42	46	47	52	60	62	61	60	57	56	55	53	50	50	49	50.9	61.6
28-Apr-08	51	50	48	51	A	43	44	47	47	51	53	54	56	58	59	61	62	62	59	61	59	59	64	59	54.6	63.9
29-Apr-08	57	58	57	57	A	57	55	53	56	56	56	60	61	62	63	63	63	58	55	49	51	51	52	51	56.5	63.5
30-Apr-08	50	49	47	47	A	45	46	47	47	47	43	40	39	39	38	38	35	33	33	32	32	31	30	31	39.8	50.2
Hourly Avg	43.0	41.7	41.2	40.8	N	40.8	40.6	41.1	42.5	44.0	45.4	46.7	48.0	48.7	49.1	49.3	49.3	48.7	47.9	46.6	45.5	44.5	43.6	43.2		
Hourly Max	56.7	57.8	57.2	57.1	0.0	57.0	55.1	55.7	57.9	57.5	57.2	59.7	61.3	62.2	62.7	63.5	63.2	61.7	60.3	60.7	59.2	60.3	63.9	60.9		

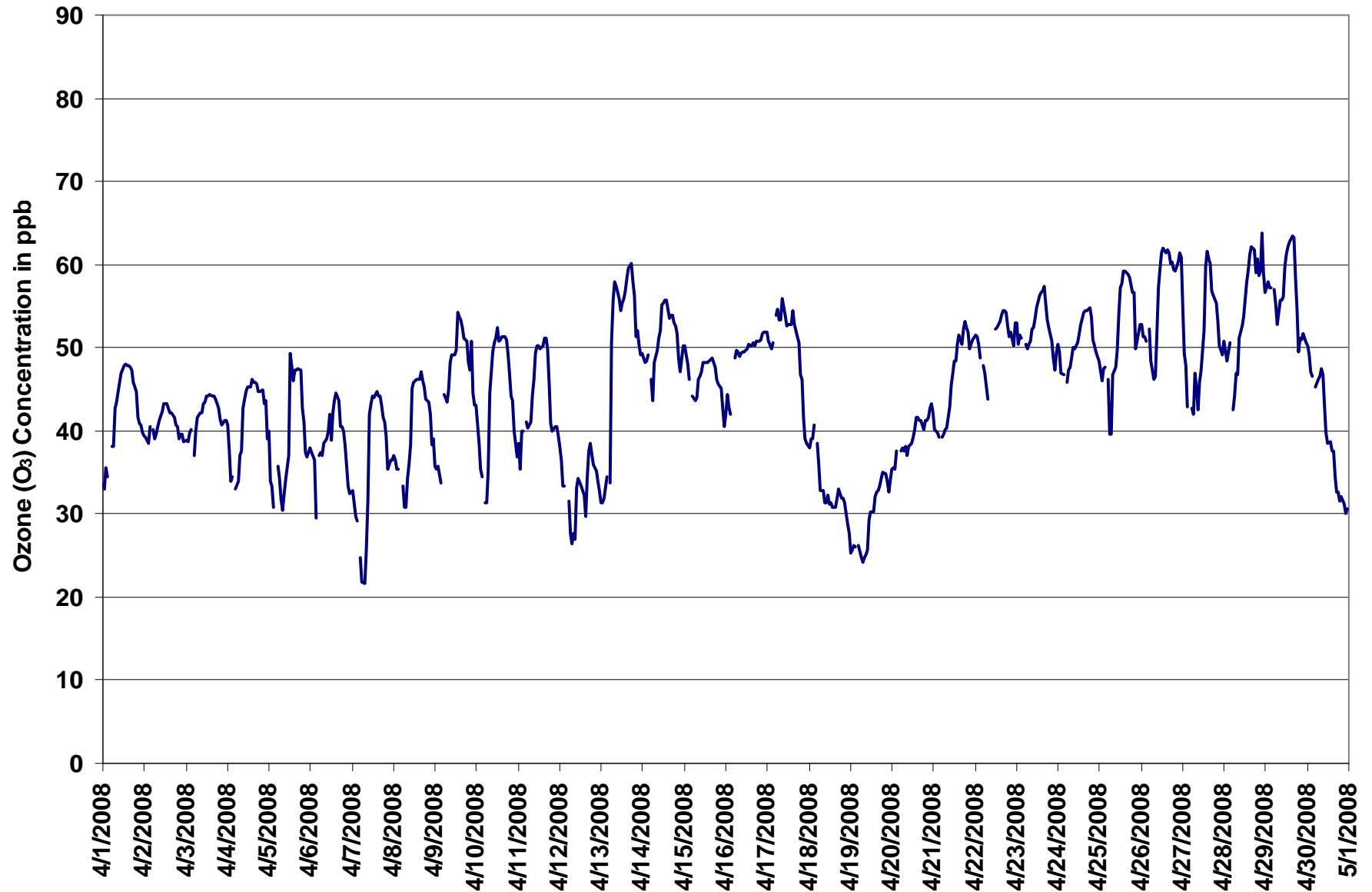
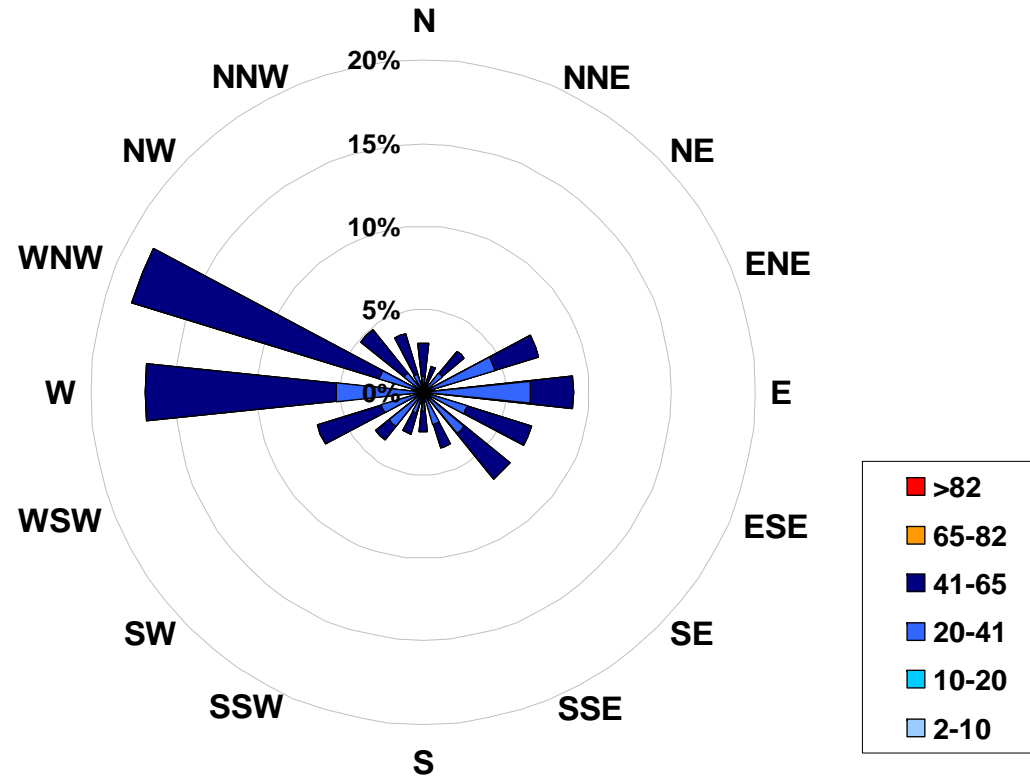


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for April 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		0
10	to 20		1
20	to 41		277
41	to 65		408
65	to 82		0
	> 82		0
Total Non-Zero Values			686

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

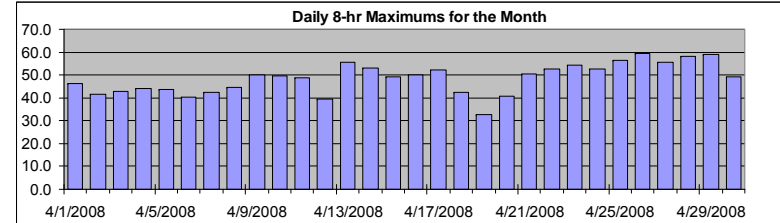
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	59.3 ppb 26-Apr 19:00 20:00



Percentile	99	95	75	50	25	5	1
	58.2	55.1	49.1	42.8	37.2	29.7	24.8

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		23:00
1-Apr-08	40	38	36	35	35	34	34	34	35	37	38	40	41	42	44	45	46	46	46	46	46	45	44	43	42	46.2
2-Apr-08	41	40	39	39	38	38	38	37	38	38	39	39	40	40	41	41	42	42	42	42	41	41	40	40	39	41.7
3-Apr-08	39	38	38	38	38	38	37	38	38	39	39	40	41	42	43	43	43	43	43	43	43	42	42	41	41	42.8
4-Apr-08	40	40	39	37	37	36	35	33	33	33	34	36	37	39	40	42	43	44	44	44	44	44	43	43	42	44.3
5-Apr-08	40	39	37	35	35	33	32	31	30	30	30	31	32	34	36	38	40	42	43	44	44	43	42	41	40	43.7
6-Apr-08	39	37	36	34	34	34	34	33	33	33	34	36	36	37	38	39	40	40	40	40	40	40	39	38	37	40.3
7-Apr-08	35	34	33	31	30	29	27	26	24	24	25	27	29	31	34	37	40	42	42	42	42	41	40	39	38	42.4
8-Apr-08	37	36	35	34	34	33	32	31	31	31	32	34	36	38	40	42	43	44	44	44	44	44	43	42	41	44.4
9-Apr-08	39	37	35	34	33	33	34	35	36	38	41	43	44	45	47	48	50	50	50	50	49	49	49	48	46	50.1
10-Apr-08	45	43	41	39	38	36	33	32	32	34	36	38	40	43	45	48	49	50	50	49	48	47	45	44	44	49.8
11-Apr-08	42	40	38	37	37	36	36	37	38	40	41	43	44	45	46	47	49	49	48	47	46	44	43	41	41	49.0
12-Apr-08	40	38	36	35	35	33	31	29	28	26	26	26	27	27	28	28	29	31	32	32	33	33	33	34	34	39.6
13-Apr-08	34	33	32	32	31	31	32	35	39	43	46	49	50	53	54	55	55	55	56	56	55	54	53	52	52	55.7
14-Apr-08	51	49	48	48	47	47	46	46	46	46	47	47	48	50	51	52	53	53	53	53	53	52	51	50	50	53.1
15-Apr-08	49	49	48	47	47	46	46	45	44	44	44	44	44	45	45	46	46	47	47	47	47	46	46	45	44	49.3
16-Apr-08	43	42	42	41	41	41	42	44	45	46	47	48	48	49	49	49	49	49	49	49	49	49	49	50	50	50.0
17-Apr-08	50	50	50	50	50	50	50	50	50	51	52	52	52	52	52	52	52	52	52	51	50	49	48	46	44	52.3
18-Apr-08	42	41	40	39	38	38	37	37	36	35	33	32	32	31	31	30	30	30	31	31	31	31	30	30	30	42.4
19-Apr-08	29	28	27	27	26	26	25	25	25	25	25	25	25	26	27	28	29	30	31	32	32	33	33	33	33	32.8
20-Apr-08	33	33	34	34	34	35	35	36	36	37	37	37	37	38	38	39	39	39	40	40	40	40	41	41	41	40.7
21-Apr-08	41	40	40	40	40	40	39	39	39	39	40	41	42	43	44	46	47	48	49	50	50	50	50	50	50	50.5
22-Apr-08	51	51	50	49	49	49	48	47	N	N	N	N	N	N	N	N	N	N	N	53	52	52	51	51	51	52.6
23-Apr-08	50	49	48	48	48	48	48	47	48	49	50	50	51	52	53	54	54	54	54	54	54	54	53	52	50	54.4
24-Apr-08	50	49	48	47	47	46	46	46	46	46	47	47	48	49	50	50	51	52	52	52	53	53	52	52	51	52.7
25-Apr-08	50	48	47	47	46	45	43	41	41	42	42	43	44	46	49	52	54	55	56	57	56	55	54	53	53	56.5
26-Apr-08	52	51	51	50	50	50	49	49	47	47	48	49	50	52	53	55	57	59	59	59	59	59	58	58	57	59.3
27-Apr-08	56	54	52	50	50	47	45	43	42	41	41	41	42	44	46	49	51	53	54	55	56	55	53	51	51	55.6
28-Apr-08	50	49	47	46	46	45	44	43	42	43	44	45	46	48	50	52	55	56	57	58	58	58	58	57	57	58.2
29-Apr-08	56	56	55	55	54	54	53	51	51	51	51	51	52	53	54	56	58	59	59	58	57	55	54	52	50	58.8
30-Apr-08	49	48	48	48	48	47	46	46	45	45	44	43	42	41	40	39	38	36	35	34	33	32	31	30	30	49.0

Hourly Max	56.3	55.7	55.4	54.8	54.5	54.1	53.1	51.4	51.3	51.3	51.8	52.3	53.0	54.1	55.8	58.0	58.8	58.8	59.2	59.3	58.8	58.2	57.7	57.2
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PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

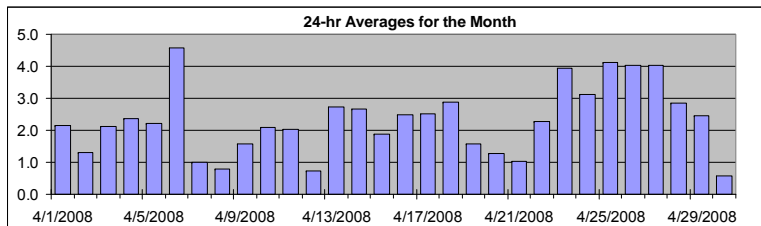
Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Draft Objective Limit: Alberta Environment: 1-hr - µg/m³ 24-hr 30 µg/m³
 Summary

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	8.6	µg/m ³	17-Apr	18:00 19:00
Maximum 24-hr Value:	4.6	µg/m ³	6-Apr	

AIC Time:	0 hrs	Operational Time:	712 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	6.3	5.1	3.4	2.2	1.0	0.0	0.0	2.3 2 µg/m ³	2.0 µg/m ³



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	1	1	1	1	1	2	7	7	3	3	1	1	1	2	1	2	2	1	3	2	3	2	1	1	2.1	7.1
2-Apr-08	1	1	2	2	2	2	1	2	2	1	1	0	1	0	1	1	1	1	1	3	3	2	1	1	1.3	2.7
3-Apr-08	1	1	2	3	4	4	3	3	2	2	2	1	1	0	1	2	1	2	3	3	3	3	2	2	2.1	3.9
4-Apr-08	3	3	2	3	2	3	3	5	3	2	2	2	2	0	0	3	1	0	1	4	2	6	3	2	2.4	6.0
5-Apr-08	1	1	1	2	2	3	1	2	3	2	2	2	0	2	3	2	6	0	0	2	4	4	3	4	2.2	6.0
6-Apr-08	4	4	5	6	6	5	5	5	4	4	5	5	5	3	3	4	5	5	5	5	5	4	4	3	4.6	6.2
7-Apr-08	2	1	2	1	0	1	3	3	4	0	0	0	0	0	0	0	1	0	1	1	3	1	1	0	1.0	3.5
8-Apr-08	1	0	0	0	1	0	0	2	0	0	0	0	0	0	3	0	1	2	2	5	2	0	0	0	0.8	5.1
9-Apr-08	1	0	0	0	1	0	1	3	3	0	0	0	1	1	1	2	3	2	3	4	3	3	3	3	1.6	4.1
10-Apr-08	3	3	3	2	3	3	2	4	3	2	1	1	0	0	1	0	1	3	4	3	3	2	2	3	2.1	3.8
11-Apr-08	3	5	3	3	3	3	3	3	2	1	2	1	2	2	2	2	2	1	1	1	0	1	1	1	2.0	5.1
12-Apr-08	0	0	0	0	0	0	1	3	0	2	1	0	1	0	2	3	1	D	0	0	0	2	0	0	0.7	3.0
13-Apr-08	0	0	5	5	5	4	0	0	D	0	3	2	0	0	1	2	2	4	3	4	6	5	5	4	2.7	5.8
14-Apr-08	5	4	4	5	5	4	5	3	0	0	0	1	2	2	2	1	2	2	2	3	3	2	3	4	2.7	5.1
15-Apr-08	4	4	3	2	2	2	2	2	2	1	1	0	1	1	1	2	3	0	1	2	1	3	2	2	1.9	3.8
16-Apr-08	1	1	1	1	4	4	5	2	1	2	2	2	3	3	2	3	2	3	3	3	4	2	2	3	2.5	4.6
17-Apr-08	4	2	2	3	1	4	2	7	0	D	2	2	3	2	2	1	2	1	9	2	3	1	2	0	2.5	8.6
18-Apr-08	2	3	4	4	3	4	4	2	2	2	2	2	3	3	4	3	4	3	3	2	4	4	2	2	2.9	4.4
19-Apr-08	2	1	1	2	2	2	2	2	1	1	1	1	2	2	1	1	2	3	2	2	2	1	0	0	1.6	3.0
20-Apr-08	1	0	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	2	1	1	2	1	2	1.3	2.3
21-Apr-08	1	0	0	0	0	0	0	0	1	2	4	1	2	2	2	2	2	1	1	1	1	1	1	1	1.0	3.9
22-Apr-08	0	1	1	2	2	3	6	6	C	C	C	C	C	0	0	1	2	3	3	2	3	2	3	3	2.3	6.3
23-Apr-08	3	3	3	1	3	3	4	5	7	4	4	4	4	3	4	4	5	5	4	4	4	4	4	3	4.0	7.1
24-Apr-08	3	3	3	3	3	3	5	4	3	2	3	2	2	2	2	3	3	3	3	4	4	4	3	3	3.1	4.9
25-Apr-08	4	5	4	4	4	5	6	5	4	3	3	2	1	3	3	5	4	5	5	4	6	5	4	5	4.1	5.7
26-Apr-08	4	4	4	4	5	4	4	5	5	4	4	3	3	3	3	3	3	3	3	3	6	5	4	5	4.0	5.9
27-Apr-08	5	4	4	4	4	3	5	3	3	4	4	3	5	4	3	4	5	5	5	5	3	3	3	3	4.0	5.4
28-Apr-08	3	1	1	1	1	2	2	3	3	2	2	2	2	2	2	2	3	4	6	4	7	4	4	6	2.8	6.6
29-Apr-08	3	3	3	4	4	4	4	5	2	2	3	0	2	1	0	3	8	3	3	0	0	0	1	2.5	7.8	
30-Apr-08	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.6	1.5
Hourly Avg	2.2	2.1	2.2	2.3	2.5	2.6	2.8	3.2	2.2	1.9	1.9	1.6	1.7	1.7	1.7	2.1	2.7	2.4	2.7	2.6	3.0	2.7	2.3	2.3		
Hourly Max	4.9	5.3	5.1	6.2	5.5	5.0	6.5	7.1	7.1	4.5	4.7	5.1	5.4	3.8	4.1	4.6	7.8	5.4	8.6	5.1	6.6	6.0	4.9	6.3		

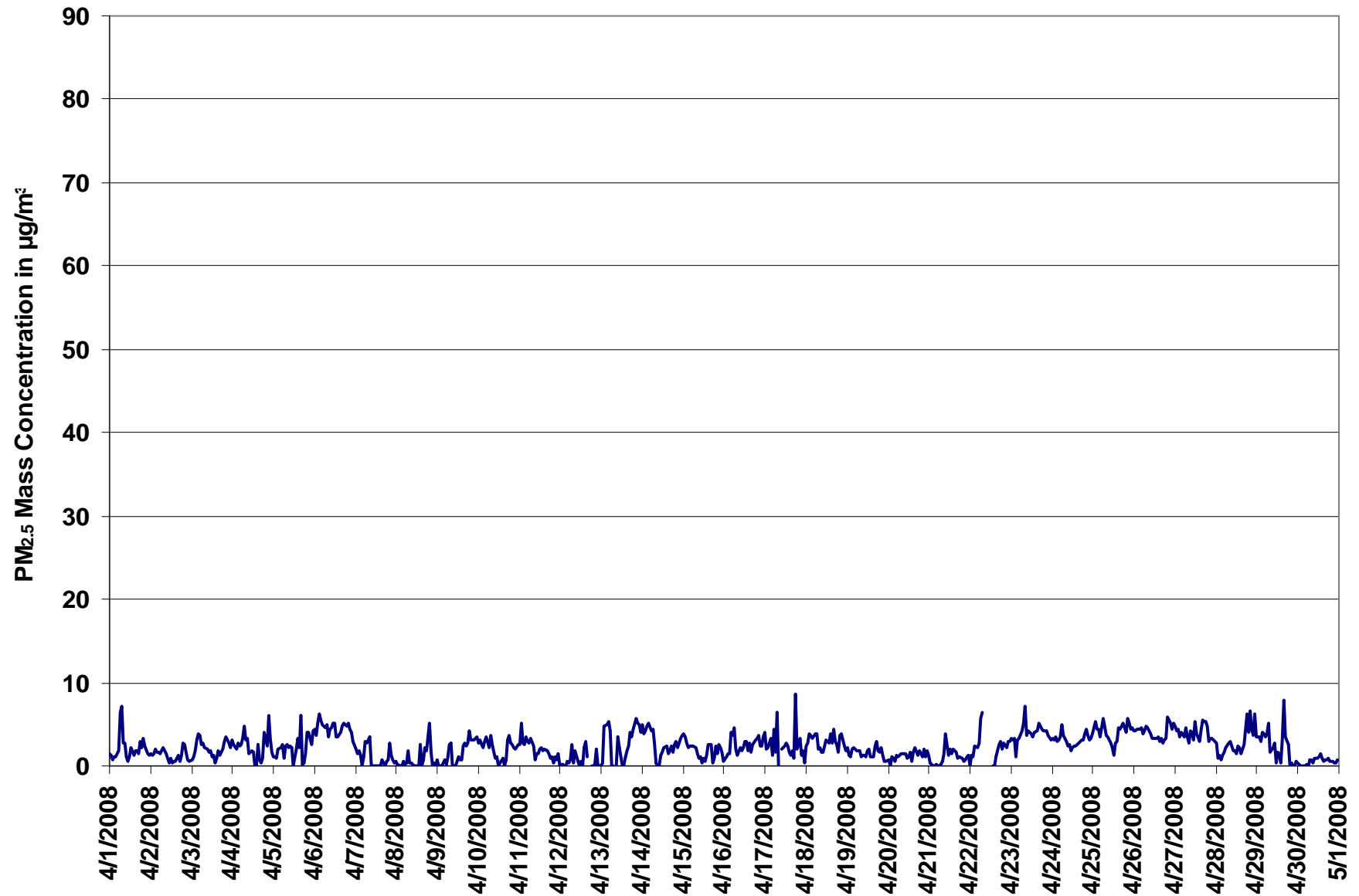


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

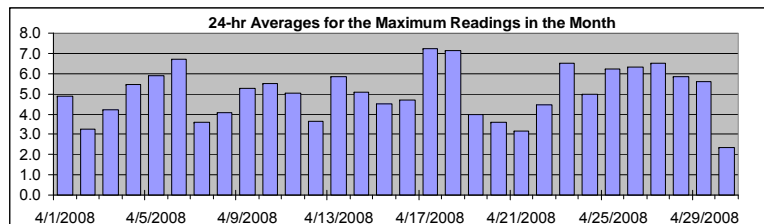
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	28.4	µg/m ³	17-Apr	18:00 19:00
Maximum 24-hr Value:	7.2	µg/m ³	17-Apr	



AIC Time:	0 hrs	Operational Time:	715 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	13.7	9.2	6.1	4.7	3.5	2.0	1.1	5.1	5 µg/m ³
									4.9 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	3	3	3	3	3	4	9	11	5	5	4	5	5	7	4	6	4	5	7	5	5	4	3	3	4.9	11.1
2-Apr-08	3	3	2	4	3	3	3	4	4	3	3	3	4	4	3	3	5	3	4	4	4	3	2	2	3.2	4.9
3-Apr-08	2	2	4	4	6	5	4	4	4	4	3	4	3	6	3	5	5	4	4	5	5	5	5	4	4.2	6.0
4-Apr-08	6	4	3	4	4	4	7	7	5	5	4	5	4	3	4	11	3	3	4	7	11	12	6	4	5.5	12.4
5-Apr-08	3	3	3	4	4	4	2	5	5	4	5	6	8	14	7	15	15	3	4	4	8	6	4	6	5.9	15.0
6-Apr-08	5	5	8	8	8	6	6	7	5	6	8	8	8	6	8	8	8	8	7	6	6	6	5	5	6.7	8.3
7-Apr-08	4	4	3	3	1	3	6	5	6	3	3	3	4	7	5	3	3	3	3	3	6	3	3	2	3.6	6.9
8-Apr-08	2	2	2	2	2	2	2	4	4	3	3	0	3	7	8	6	10	7	5	13	5	1	3	2	4.1	13.3
9-Apr-08	3	2	3	2	3	3	3	8	8	3	3	5	7	9	5	9	6	7	5	8	8	5	6	7	5.3	9.2
10-Apr-08	7	6	6	4	7	6	4	7	7	4	4	6	11	4	5	4	7	6	6	5	4	4	4	6	5.5	10.8
11-Apr-08	4	18	6	5	6	4	4	5	5	4	6	4	6	5	4	5	6	5	3	4	2	3	4	4	5.0	18.4
12-Apr-08	3	2	2	2	2	3	3	8	4	4	3	3	4	4	6	12	7	3	2	0	2	4	2	1	3.6	11.5
13-Apr-08	2	2	9	9	7	6	4	1	0	6	7	7	5	7	6	5	7	7	7	6	9	6	8	7	5.8	9.4
14-Apr-08	6	5	5	6	8	7	8	5	2	2	3	4	5	7	6	5	6	4	4	5	4	4	5	5	5.1	7.8
15-Apr-08	6	6	5	4	4	5	5	4	4	2	3	2	4	4	4	9	11	3	3	5	3	5	4	4	4.5	10.8
16-Apr-08	3	3	3	3	8	5	7	5	4	5	5	4	5	5	4	6	4	4	6	5	5	4	4	5	4.7	7.6
17-Apr-08	6	6	5	6	4	9	5	21	13	11	6	6	6	5	5	5	5	3	28	5	5	4	3	3	7.2	28.4
18-Apr-08	4	6	7	5	6	6	7	4	8	8	5	9	7	7	11	7	11	10	6	9	10	8	5	5	7.2	11.2
19-Apr-08	4	4	3	4	4	4	4	3	4	4	4	4	5	4	4	5	6	6	4	3	4	4	2	2	4.0	5.8
20-Apr-08	2	1	3	4	3	3	2	4	4	4	3	5	4	6	4	5	5	3	4	4	3	3	3	4	3.6	5.6
21-Apr-08	3	2	2	2	2	1	2	1	2	3	12	4	4	3	4	5	3	3	4	4	4	2	2	3	3.2	11.9
22-Apr-08	1	3	4	4	5	6	8	8	C	C	C	C	C	2	2	3	6	7	7	4	5	4	5	4	4.5	8.2
23-Apr-08	5	5	6	5	19	5	6	8	13	5	6	5	5	5	5	6	7	7	6	5	6	6	5	5	6.5	19.3
24-Apr-08	4	5	5	5	5	5	12	5	5	4	5	4	4	4	4	5	5	6	5	7	5	4	4	5.0	11.7	
25-Apr-08	5	6	6	5	5	7	8	7	6	5	5	4	4	7	5	9	6	8	7	6	8	6	7	6	6.2	9.1
26-Apr-08	6	6	6	6	6	6	6	7	7	7	5	5	6	6	7	5	5	5	8	6	7	9	8	9	6.3	9.0
27-Apr-08	8	7	6	5	5	5	11	7	6	9	7	6	7	6	7	7	7	8	7	7	4	6	4	4	6.5	11.1
28-Apr-08	4	6	5	3	4	4	5	7	5	4	5	4	4	5	5	4	6	9	10	7	11	7	8	9	5.9	11.3
29-Apr-08	7	5	5	7	5	6	6	8	4	4	5	4	4	4	2	12	18	11	6	2	2	2	2	3	5.6	17.9
30-Apr-08	2	2	1	3	1	2	1	2	2	3	3	3	3	3	3	3	2	3	3	2	2	2	2	3	2.4	3.3
Hourly Avg	4.2	4.5	4.2	4.3	5.0	4.6	5.3	6.1	5.2	4.6	4.7	4.5	5.1	5.5	5.0	6.3	6.6	5.3	6.0	5.2	5.6	4.8	4.2	4.4		
Hourly Max	8.1	18.4	9.4	8.9	19.3	9.3	11.7	20.7	13.4	10.7	11.9	8.9	10.8	13.8	10.5	14.9	17.9	10.6	28.4	13.3	11.3	12.4	8.3	9.2		

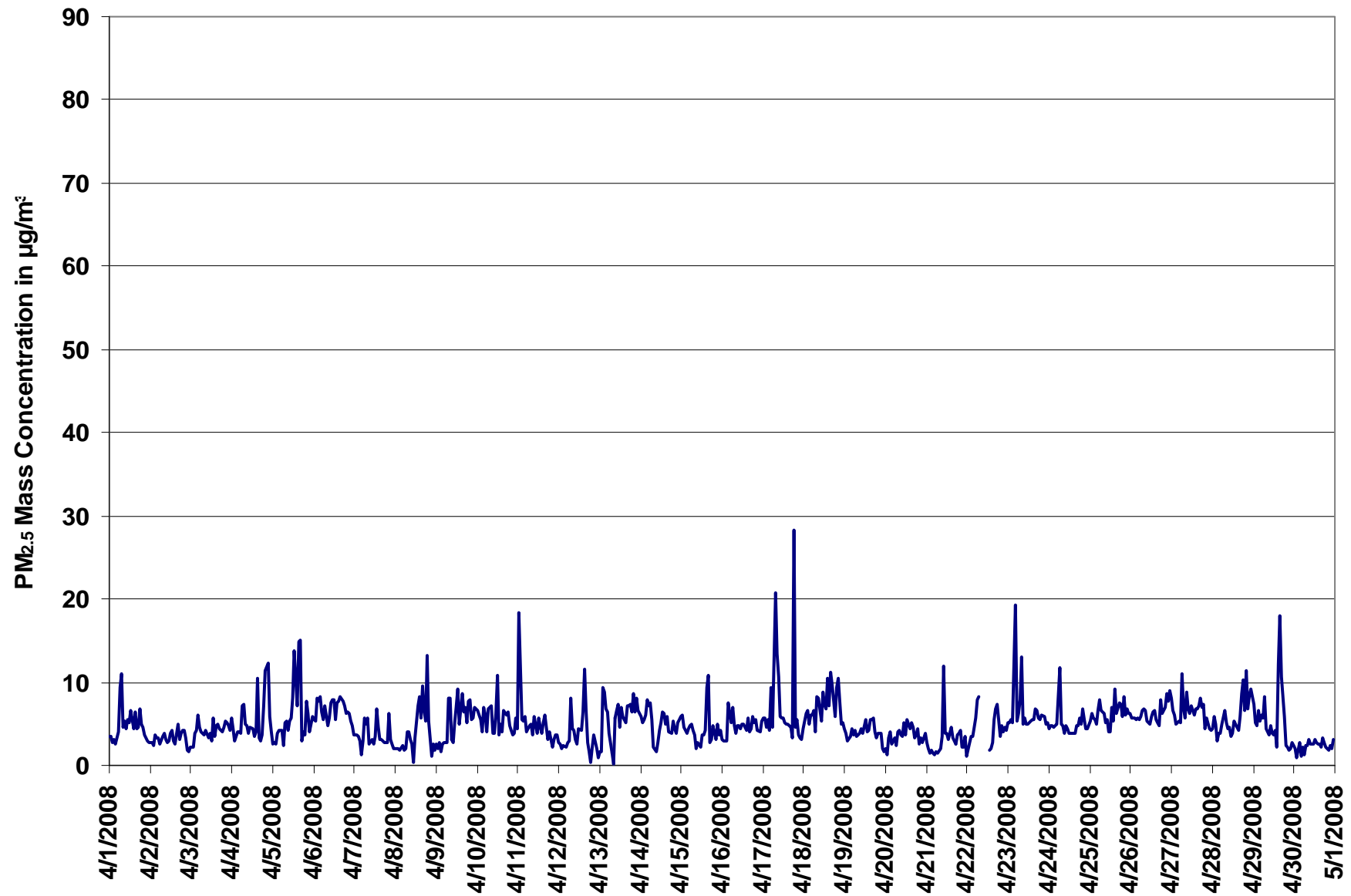
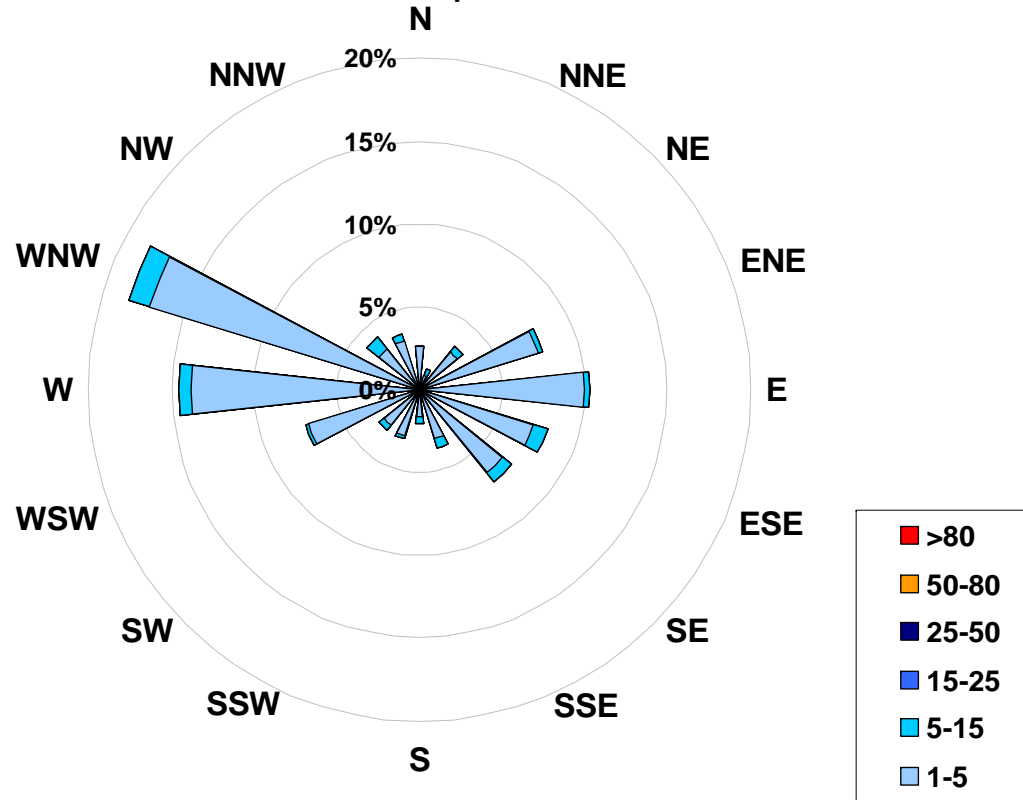


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for April 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	669
5	to	15	43
15	to	25	0
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			712

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

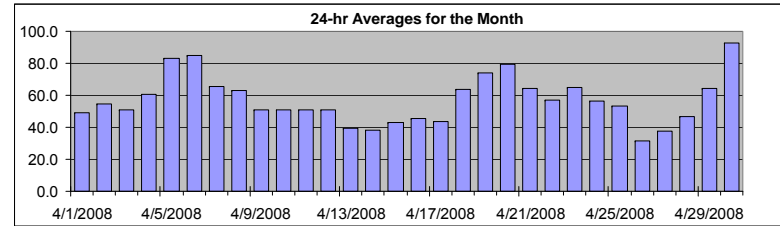
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	96.8	%	5-Apr	7:00 8:00
Maximum 24-hr Value:	92.6	%	30-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile 99	95	75	50	25	5	1	Average	Median	
	95.8	94.0	71.9	56.7	39.9	25.0	18.8	57.0 %	56.7 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	58	56	56	59	58	60	59	58	49	49	40	33	28	32	34	35	36	36	43	51	57	60	61	62	48.8	61.9
2-Apr-08	64	66	70	70	64	69	70	61	55	49	44	41	39	37	40	38	39	41	49	56	61	61	60	62	54.5	70.4
3-Apr-08	61	62	60	58	58	60	57	54	52	49	42	41	39	36	35	34	38	39	44	51	59	63	63	64	50.8	63.7
4-Apr-08	66	69	71	74	74	76	71	62	58	48	43	43	41	43	41	51	52	51	54	60	60	75	84	90	60.7	90.1
5-Apr-08	94	95	95	95	95	96	97	97	96	81	73	63	59	50	57	57	89	85	79	79	80	91	95	93	82.8	96.8
6-Apr-08	93	95	95	95	95	95	95	95	92	91	88	83	83	76	70	67	68	71	73	76	79	84	86	89	84.7	95.4
7-Apr-08	92	94	95	96	96	96	96	92	84	76	63	50	44	39	34	31	32	36	41	45	54	56	62	62	65.3	96.4
8-Apr-08	68	71	73	74	76	79	78	71	64	58	50	38	32	32	40	41	37	47	53	66	91	90	92	94	63.0	94.2
9-Apr-08	96	95	93	82	79	71	68	64	60	44	33	30	29	27	25	25	26	28	31	39	41	43	47	53	51.2	95.9
10-Apr-08	55	62	63	64	66	69	68	63	55	47	41	36	42	34	32	28	28	30	39	49	53	60	67	67	50.8	68.5
11-Apr-08	70	73	70	65	65	60	56	54	47	41	38	37	35	36	35	37	38	38	44	54	59	60	58	60	51.1	72.6
12-Apr-08	65	67	66	63	64	61	62	60	60	56	49	40	40	39	42	46	43	36	38	43	45	45	45	44	50.8	66.8
13-Apr-08	43	42	45	53	61	70	67	58	40	34	38	43	34	25	22	21	19	19	21	26	33	35	41	47	39.1	69.7
14-Apr-08	49	51	52	52	54	55	55	46	38	32	30	27	24	22	22	23	24	26	30	31	39	44	45	43	38.2	55.4
15-Apr-08	45	49	55	54	59	62	62	56	50	42	36	31	29	28	27	29	30	32	31	34	39	43	51	58	43.1	61.9
16-Apr-08	58	57	59	61	62	59	61	55	45	40	37	35	34	35	35	33	32	35	38	42	43	43	46	47	45.5	61.9
17-Apr-08	47	47	50	52	52	58	64	73	47	39	23	21	21	20	19	18	19	20	44	53	63	68	70	62	43.8	72.9
18-Apr-08	59	60	65	66	67	65	69	69	59	63	57	55	57	57	56	56	59	66	65	65	67	76	79	79	63.9	79.2
19-Apr-08	78	78	76	77	76	81	77	73	68	63	61	59	63	66	65	64	67	77	79	85	84	85	85	85	73.8	85.1
20-Apr-08	83	83	84	85	86	86	82	81	76	72	69	65	71	69	70	73	74	75	82	85	89	88	89	90	79.4	89.8
21-Apr-08	90	90	87	86	89	88	86	85	82	80	76	76	75	66	55	45	42	40	36	36	33	33	33	34	64.3	90.4
22-Apr-08	31	31	33	36	40	42	50	61	69	59	54	48	47	49	42	45	51	62	78	81	88	89	93	89	56.9	92.9
23-Apr-08	85	89	82	81	79	69	69	72	59	59	57	53	55	49	47	50	50	56	60	62	64	67	71	67	64.6	88.6
24-Apr-08	62	67	69	69	72	72	69	62	60	54	51	48	47	41	41	43	42	44	44	52	58	59	61	62	56.2	71.8
25-Apr-08	65	75	82	89	92	92	86	79	72	62	51	41	27	26	24	24	24	26	29	31	40	49	49	48	53.5	91.8
26-Apr-08	46	48	46	47	48	47	46	44	42	35	31	26	22	20	19	18	19	18	18	18	19	22	25	29	31.4	47.8
27-Apr-08	30	34	36	40	45	46	45	38	39	40	35	32	30	28	22	24	25	29	30	34	43	53	58	60	37.3	60.1
28-Apr-08	63	71	73	72	82	77	71	57	53	45	39	34	29	29	27	25	25	26	33	33	36	38	39	47	46.8	81.8
29-Apr-08	67	72	75	79	83	86	79	70	53	45	41	36	33	32	26	28	48	80	80	82	80	81	88	93	64.1	93.4
30-Apr-08	96	96	94	93	93	93	94	94	91	90	87	85	83	87	90	94	96	96	94	95	95	96	96	96	92.6	96.5
Hourly Avg	66.0	68.2	69.1	69.6	70.9	71.3	70.3	66.7	60.4	54.8	49.2	45.1	43.1	41.0	39.8	40.0	42.4	45.5	49.3	53.8	58.4	61.9	64.7	65.9		
Hourly Max	95.9	95.6	95.4	95.8	96.3	96.4	96.7	96.8	95.5	90.9	87.7	84.6	83.2	87.4	90.4	93.6	95.5	95.8	94.3	94.6	94.6	95.6	96.5	96.4		

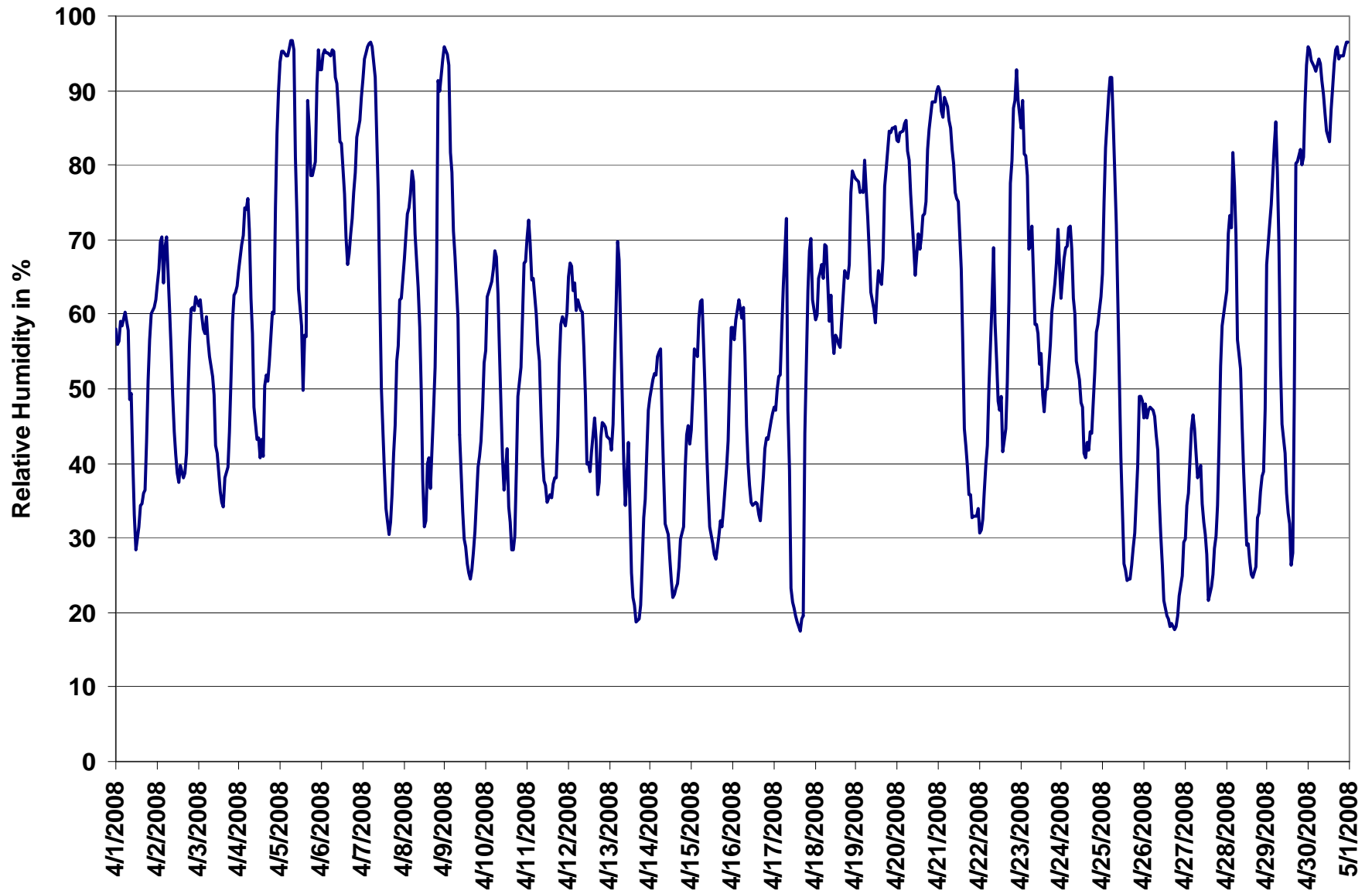


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

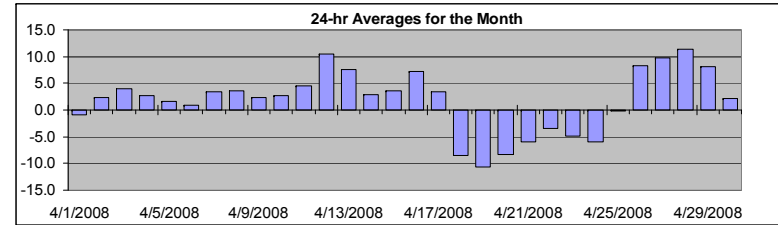
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	18.1	°C	28-Apr	14:00 15:00
Maximum 24-hr Value:	11.3	°C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.0	13.9	6.5	1.7	-2.4	-9.3	-12.5	1.8 °C	1.7 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Apr-08	-5	-5	-5	-6	-6	-7	-6	-4	-1	0	1	2	4	4	4	4	4	3	3	1	0	-1	-1	-2	-0.9	3.9
2-Apr-08	-2	-2	-3	-3	-1	-2	-2	0	2	3	5	6	7	7	7	7	7	7	5	3	2	1	1	1	2.3	7.5
3-Apr-08	1	1	2	2	2	2	2	3	3	4	6	6	7	8	8	9	7	7	6	4	2	1	0	0	3.9	8.8
4-Apr-08	-1	-2	-2	-3	-3	-2	-2	1	2	5	6	7	8	7	7	6	6	6	5	4	4	3	2	1	2.6	8.3
5-Apr-08	0	0	0	-1	-1	-1	-1	-1	0	2	3	5	5	6	6	5	2	2	2	2	1	0	-1	-1	1.6	6.3
6-Apr-08	-1	-2	-2	-2	-2	-1	-1	-1	0	0	0	1	2	3	4	5	5	4	4	3	2	1	1	0	1.0	4.8
7-Apr-08	0	-1	-1	-1	-3	-2	-2	-1	1	3	6	8	9	10	10	10	10	8	7	5	3	3	1	1	3.5	10.1
8-Apr-08	1	0	-1	-1	-1	-2	-1	1	3	4	7	9	10	10	8	9	9	8	7	5	1	1	0	0	3.6	9.9
9-Apr-08	-1	-1	-1	0	-1	0	0	0	2	4	5	5	6	7	7	7	7	6	5	2	1	1	0	-1	2.4	6.9
10-Apr-08	-1	-2	-2	-2	-2	-2	-2	0	2	4	5	7	6	7	8	8	8	8	6	4	3	2	0	0	2.7	8.4
11-Apr-08	0	-1	-1	0	0	1	1	2	4	6	7	7	8	8	9	9	9	9	8	6	4	4	5	5	4.6	9.3
12-Apr-08	5	5	4	5	5	5	5	6	6	8	11	13	14	15	15	14	16	18	17	15	13	12	12	12	10.5	17.7
13-Apr-08	11	11	10	10	9	7	5	5	6	7	7	7	8	10	11	11	11	10	9	7	4	3	2	1	7.6	11.2
14-Apr-08	1	0	-1	-1	-1	-2	-1	1	3	5	5	6	7	7	7	7	7	6	5	4	2	0	0	2	2.9	7.5
15-Apr-08	2	1	1	1	0	0	0	1	2	4	5	6	7	8	8	8	7	7	7	6	4	3	1	0	3.6	7.8
16-Apr-08	0	0	0	-1	1	3	4	5	8	9	10	11	11	11	11	12	13	11	11	10	9	8	8	8	7.1	12.5
17-Apr-08	7	6	5	4	4	4	3	3	4	3	4	5	5	6	6	5	5	5	3	1	0	-1	-2	-2	3.4	7.0
18-Apr-08	-3	-4	-6	-7	-8	-9	-10	-10	-9	-10	-9	-9	-8	-8	-8	-8	-8	-8	-9	-9	-10	-10	-11	-12	-8.5	-3.1
19-Apr-08	-12	-13	-13	-13	-13	-13	-13	-13	-12	-12	-11	-10	-10	-10	-9	-9	-8	-8	-8	-8	-9	-9	-9	-10	-10.7	-8.2
20-Apr-08	-10	-10	-10	-10	-10	-11	-11	-10	-10	-9	-8	-7	-7	-7	-7	-7	-7	-7	-6	-6	-7	-7	-7	-7	-8.2	-5.9
21-Apr-08	-7	-7	-8	-8	-8	-8	-9	-9	-9	-9	-8	-8	-7	-6	-5	-3	-3	-2	-2	-3	-3	-3	-4	-5.9	-2.1	
22-Apr-08	-4	-5	-6	-7	-8	-9	-8	-6	-5	-4	-2	-1	0	0	1	1	1	0	-1	-2	-4	-5	-5	-3.5	1.3	
23-Apr-08	-6	-7	-6	-6	-7	-7	-7	-6	-3	-5	-4	-3	-3	-1	-1	-2	-3	-3	-4	-5	-6	-7	-8	-8	-4.9	-1.3
24-Apr-08	-8	-9	-9	-9	-10	-10	-10	-8	-7	-6	-5	-4	-4	-3	-3	-3	-2	-3	-3	-4	-5	-5	-6	-6	-5.9	-2.3
25-Apr-08	-6	-6	-6	-7	-7	-8	-8	-6	-5	-3	-1	1	4	5	6	7	8	8	7	6	4	2	1	1	-0.2	7.6
26-Apr-08	1	0	0	0	0	0	1	3	5	8	10	12	14	15	16	17	17	16	16	14	12	10	9	7	8.4	16.8
27-Apr-08	7	5	5	3	3	3	5	8	7	8	10	12	14	16	17	17	17	16	15	14	11	9	7	7	9.7	17.5
28-Apr-08	6	4	4	4	2	3	5	9	10	13	14	15	17	17	18	18	18	17	15	14	13	12	12	11	11.3	18.1
29-Apr-08	8	6	5	4	4	3	5	7	10	12	13	14	14	14	15	14	11	7	7	6	5	4	3	3	8.2	15.2
30-Apr-08	3	3	3	3	2	2	2	2	2	3	4	4	4	4	2	1	1	1	1	1	1	1	1	1	2.1	4.3
Hourly Avg	-0.5	-1.1	-1.4	-1.7	-2.0	-2.2	-1.9	-0.6	0.7	1.9	3.2	4.3	5.1	5.6	6.0	6.0	5.8	5.3	4.5	3.2	1.9	1.1	0.4	0.0		
Hourly Max	11.2	11.1	10.4	9.6	9.2	7.4	5.1	8.9	10.3	12.8	14.1	15.3	16.9	17.0	18.1	18.0	17.8	17.7	17.1	14.8	13.4	12.7	12.1	11.8		

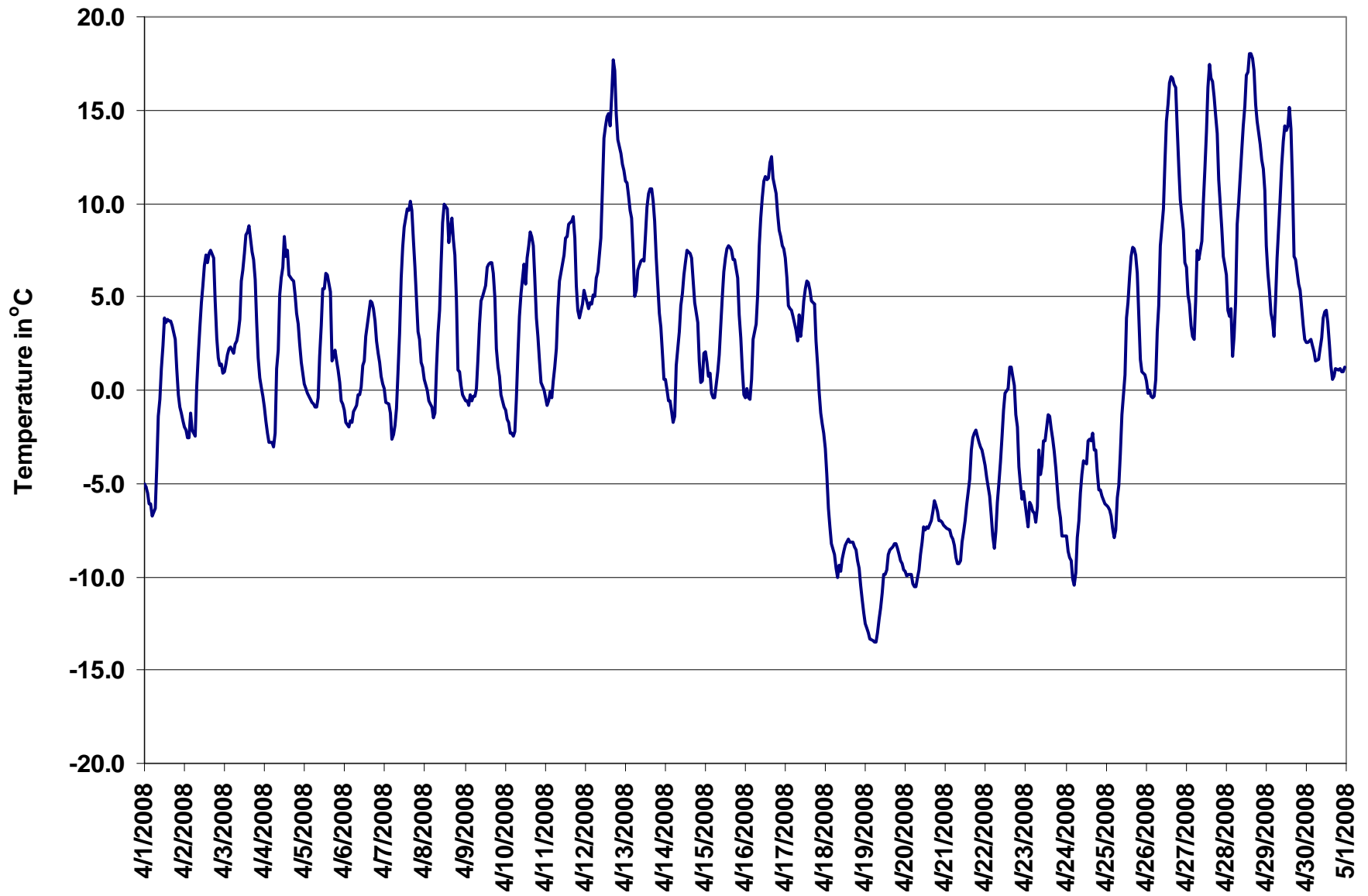


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

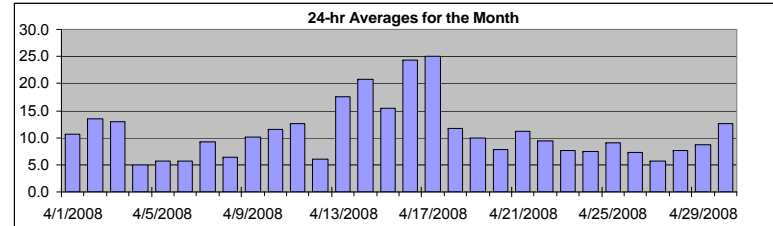
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	42.3	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	25.0	km/hr	17-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.8	27.9	14.8	9.2	5.3	2.5	1.6	11.0 km/hr

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	4	4	7	8	7	8	7	7	7	16	18	19	14	9	11	14	13	14	7	7	17	15	12	9	8	10.6	18.6
2-Apr-08	7	6	4	7	6	3	1	7	15	18	20	18	17	20	22	22	21	19	24	18	18	16	12	3	13.5	24.0	
3-Apr-08	7	9	9	15	13	9	12	13	17	16	17	16	15	15	15	14	13	14	15	19	13	9	9	8	13.0	19.4	
4-Apr-08	6	5	3	2	2	2	1	1	5	5	10	10	7	7	6	12	8	6	4	4	3	4	6	3	5.0	11.6	
5-Apr-08	3	3	3	3	3	3	4	4	4	5	5	4	6	6	10	9	12	10	8	6	7	6	7	5	5.7	12.0	
6-Apr-08	4	3	3	2	2	2	4	5	4	6	7	7	7	7	8	8	10	11	10	7	7	5	5	4	5.8	11.3	
7-Apr-08	5	2	4	3	2	3	2	3	4	8	13	17	16	19	19	23	19	17	13	11	5	4	5	7	9.2	22.9	
8-Apr-08	5	2	3	4	4	3	2	3	4	7	6	6	7	7	12	8	5	10	9	12	15	9	4	3	6.3	15.3	
9-Apr-08	3	3	2	5	5	7	10	8	7	15	16	15	14	18	16	17	17	15	9	8	8	3	2	10.1	18.3		
10-Apr-08	3	2	1	2	3	4	4	5	8	10	13	15	12	15	20	26	24	25	23	18	15	13	8	6	11.5	26.1	
11-Apr-08	4	6	5	7	8	10	8	10	13	22	23	21	17	17	19	23	18	18	18	7	5	9	9	6	12.6	23.2	
12-Apr-08	4	4	2	3	3	3	3	2	1	2	3	3	6	4	3	6	8	14	14	13	14	14	10	8	6.1	14.2	
13-Apr-08	5	5	9	5	7	9	16	15	23	28	21	21	26	32	33	32	30	30	25	14	10	13	6	8	17.6	32.8	
14-Apr-08	11	14	9	13	12	9	9	14	23	28	33	35	32	27	28	29	30	32	27	27	15	13	11	16	20.7	34.5	
15-Apr-08	17	17	14	14	10	12	13	15	17	16	16	15	17	17	16	16	16	8	16	24	22	19	13	9	15.4	23.9	
16-Apr-08	4	6	4	2	10	18	18	19	25	32	33	34	36	35	34	35	35	36	31	29	26	25	29	30	24.4	35.8	
17-Apr-08	20	21	15	13	22	37	38	32	35	40	42	39	35	32	28	26	22	19	16	13	15	15	12	13	25.0	42.3	
18-Apr-08	13	14	11	10	10	10	9	9	10	10	10	11	11	10	11	11	11	11	14	15	17	16	14	13	11.7	16.7	
19-Apr-08	11	10	12	13	11	9	10	10	10	10	11	10	10	12	14	12	12	13	12	8	5	6	5	6	7	9.9	13.8
20-Apr-08	10	9	9	8	8	6	7	6	10	11	11	10	10	10	11	12	10	8	5	4	5	5	6	5	6	7.8	11.9
21-Apr-08	6	6	8	10	10	10	14	16	16	17	15	17	17	18	15	11	8	8	7	8	7	8	8	8	11.2	17.7	
22-Apr-08	8	8	8	8	8	10	10	12	15	15	17	12	12	12	10	12	13	9	8	6	3	2	2	4	9.3	16.8	
23-Apr-08	4	3	6	6	8	7	10	6	4	8	8	8	6	8	6	7	9	11	11	14	13	9	4	5	7.7	13.7	
24-Apr-08	7	6	8	7	8	8	8	8	8	9	9	9	8	9	10	10	8	8	7	5	6	5	5	7	3	7.5	10.0
25-Apr-08	3	4	5	4	4	4	2	2	7	8	8	10	7	10	11	18	21	23	19	19	15	10	4	2	9.1	22.9	
26-Apr-08	1	1	2	2	3	2	2	3	5	5	8	9	17	17	15	15	15	16	12	8	5	4	4	2	7.2	17.4	
27-Apr-08	5	4	3	3	3	3	3	3	3	3	4	4	6	3	4	3	6	13	12	14	14	8	4	7	5.7	14.4	
28-Apr-08	5	3	2	3	3	3	2	2	3	4	8	7	5	7	7	9	11	14	16	15	13	15	12	15	7.7	16.0	
29-Apr-08	12	9	9	5	5	3	3	3	4	4	4	5	6	6	6	8	13	18	15	18	16	15	12	10	8.6	18.0	
30-Apr-08	9	10	10	10	16	16	14	11	14	20	20	19	17	19	17	13	10	10	11	9	8	9	7	6	12.6	20.0	
1-hr Average	6.9	6.7	6.3	6.5	7.2	7.7	8.3	8.5	11.0	13.3	14.2	13.9	13.9	14.3	14.8	15.2	15.0	15.0	13.9	12.9	11.3	10.1	8.2	7.5			
Hourly Max	20.3	20.9	14.8	15.4	21.8	36.9	37.8	32.2	34.7	39.9	42.3	39.4	35.8	34.8	34.3	34.8	34.6	35.5	30.7	29.1	26.1	25.2	29.5	30.2			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

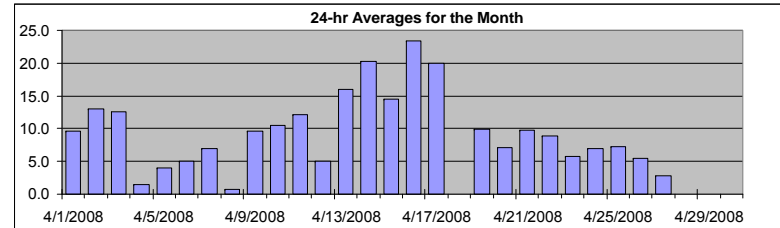
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	42.2	km/hr	17-Apr	10:00 11:00
Maximum 24-hr Value:	23.4	km/hr	16-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.7	27.6	14.4	8.7	4.8	1.8	0.9	23.7 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Apr-08	4	4	7	7	7	8	7	7	16	18	18	13	8	11	14	12	14	6	17	15	12	9	8	9.6	18.5	
2-Apr-08	7	6	3	6	6	3	1	6	15	18	20	18	17	20	22	22	21	19	24	18	18	16	12	3	13.1	23.8
3-Apr-08	7	9	9	15	13	9	12	13	17	16	17	15	15	14	14	14	12	14	15	19	13	9	9	7	12.6	19.3
4-Apr-08	6	5	3	1	2	2	1	1	5	4	10	9	5	3	5	11	8	6	4	2	1	3	5	2	1.5	11.1
5-Apr-08	3	2	3	3	3	3	3	4	4	5	4	4	4	4	10	5	7	10	7	6	4	5	7	5	3.9	9.7
6-Apr-08	4	2	3	1	2	2	4	5	4	6	6	6	7	8	8	10	11	10	7	7	4	5	4	5	5.0	11.3
7-Apr-08	5	2	3	3	2	3	2	2	3	7	12	17	16	17	18	22	19	17	13	11	5	3	5	6	7.0	22.5
8-Apr-08	4	2	2	2	3	3	2	3	4	6	5	6	5	6	11	4	2	10	9	8	15	8	4	1	0.8	15.1
9-Apr-08	3	2	1	5	4	7	10	8	6	14	16	15	14	18	16	16	17	17	15	9	8	8	3	1	9.7	18.0
10-Apr-08	2	2	1	2	3	4	4	5	7	10	12	14	10	14	19	26	24	25	23	18	15	13	8	6	10.5	25.7
11-Apr-08	4	6	5	6	8	10	8	9	13	21	23	20	16	16	18	22	18	17	18	7	5	9	9	6	12.2	23.0
12-Apr-08	4	4	1	2	3	3	3	2	1	1	3	3	6	4	3	6	8	14	14	13	14	14	10	8	5.0	14.2
13-Apr-08	5	5	8	5	7	8	16	15	23	28	21	21	25	31	32	31	30	29	24	14	10	12	4	7	16.0	32.4
14-Apr-08	11	14	9	13	12	9	9	14	23	28	33	34	32	26	28	28	29	31	27	27	15	13	11	15	20.3	34.1
15-Apr-08	17	17	14	14	10	12	13	15	17	16	16	14	16	16	16	15	16	7	15	24	22	19	13	8	14.5	23.7
16-Apr-08	3	6	4	2	9	18	18	19	24	32	32	33	36	35	34	35	34	35	30	29	26	25	29	30	23.4	35.7
17-Apr-08	20	21	15	13	21	37	37	32	35	40	42	39	35	32	28	26	22	19	13	13	15	15	12	12	19.9	42.2
18-Apr-08	13	14	10	10	10	9	8	7	9	9	7	8	9	9	11	11	10	11	13	15	17	16	14	13	-	16.6
19-Apr-08	11	10	12	13	11	9	10	10	10	11	10	9	12	14	12	12	13	12	7	4	6	5	6	7	9.9	13.7
20-Apr-08	10	9	8	7	8	6	7	6	10	11	10	10	10	11	12	9	7	5	3	4	4	5	5	6	7.0	11.6
21-Apr-08	6	6	8	10	10	10	13	16	16	17	15	17	17	18	14	9	6	7	7	7	5	8	7	7	9.8	17.6
22-Apr-08	7	8	7	8	8	9	10	11	15	15	17	9	11	11	9	12	13	8	6	6	1	1	2	4	8.8	16.5
23-Apr-08	3	2	5	5	8	6	10	5	4	8	7	6	8	5	7	9	11	11	11	14	13	9	4	5	5.8	13.7
24-Apr-08	7	6	7	7	8	8	8	8	9	8	8	9	10	10	10	8	7	7	4	6	5	5	7	3	6.9	9.8
25-Apr-08	3	4	4	4	4	4	0	2	6	8	8	9	6	9	9	18	21	23	19	19	15	10	3	2	7.3	22.7
26-Apr-08	1	1	2	1	3	2	1	2	5	5	8	9	17	16	14	14	15	16	12	8	5	2	3	2	5.4	17.3
27-Apr-08	5	4	3	3	2	3	3	2	3	2	3	4	4	3	3	3	6	12	12	13	14	7	4	6	2.8	14.3
28-Apr-08	4	3	2	2	2	2	2	1	3	4	8	7	4	7	6	8	11	13	16	15	13	15	11	12	N	15.8
29-Apr-08	12	9	8	4	4	2	3	2	3	3	1	4	1	5	5	8	3	17	15	18	16	15	12	10	N	17.9
30-Apr-08	8	10	10	10	16	16	14	11	14	20	20	19	17	18	17	13	10	10	11	9	8	9	6	6	N	19.9
1-hr Vector	1.9	1.4	1.2	1.9	3.0	3.5	3.6	3.9	6.4	7.9	8.6	8.1	7.4	8.0	7.7	8.2	7.1	7.0	5.7	5.9	4.8	3.4	2.3	2.3		
Hourly Max	20.1	20.6	14.6	15.3	21.1	36.7	37.1	31.8	34.6	39.8	42.2	39.3	35.7	34.6	34.1	34.6	34.4	35.3	30.4	28.9	26.0	25.1	29.2	30.1		

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	352.3	333.5	286.0	242.9	110.8	51.3	6.4	290 deg

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	236	220	243	236	240	268	261	271	289	293	302	315	345	287	279	290	291	326	278	269	264	264	266	266	280	W
2-Apr-08	261	252	206	277	281	266	90	272	288	291	293	287	282	279	274	279	282	265	264	264	269	272	269	228	275	W
3-Apr-08	258	268	280	292	300	302	302	302	294	293	300	301	305	291	291	297	286	297	272	269	269	263	267	268	288	WNW
4-Apr-08	246	209	203	157	152	138	107	206	229	266	319	331	9	6	23	51	54	54	71	131	239	99	350	349	8	N
5-Apr-08	66	133	140	159	135	149	166	151	138	170	142	120	66	114	136	157	31	76	119	89	359	35	79	91	106	ESE
6-Apr-08	83	51	291	322	46	78	109	133	158	134	138	131	126	117	84	109	114	109	105	118	133	123	113	119	114	ESE
7-Apr-08	122	135	153	153	85	121	103	93	186	237	252	251	261	288	283	282	292	279	266	278	235	229	273	262	266	W
8-Apr-08	237	215	161	173	184	117	99	113	190	229	211	240	175	139	170	269	59	82	85	317	320	358	14	32	189	S
9-Apr-08	236	233	306	305	280	269	290	286	241	275	284	296	289	279	276	280	280	288	282	278	279	282	253	95	281	W
10-Apr-08	245	136	138	94	194	190	202	218	237	237	256	260	266	263	281	275	277	280	266	266	266	273	248	234	262	W
11-Apr-08	246	226	221	236	260	286	294	277	269	278	283	276	288	287	272	285	275	267	286	261	256	257	263	272	274	W
12-Apr-08	261	200	153	165	104	135	80	149	174	127	196	220	217	228	87	106	120	141	135	138	138	151	140	138	146	SE
13-Apr-08	111	93	345	335	320	313	321	305	292	295	282	265	273	278	288	276	284	295	291	293	287	282	259	258	289	WNW
14-Apr-08	260	261	272	264	255	267	265	268	260	271	267	268	271	295	289	282	286	280	264	281	262	255	259	279	273	W
15-Apr-08	291	290	292	300	299	297	292	298	302	303	313	323	316	310	314	301	289	300	258	267	275	272	251	238	291	WNW
16-Apr-08	172	199	190	192	268	283	291	286	293	302	302	297	295	296	292	295	293	291	291	276	289	292	290	296	291	WNW
17-Apr-08	289	275	253	252	288	301	285	294	304	304	302	303	304	299	305	305	313	312	40	55	55	58	44	45	306	NW
18-Apr-08	55	65	39	53	59	58	23	40	74	76	48	59	67	70	82	84	78	79	82	82	83	86	82	88	69	ENE
19-Apr-08	89	84	85	83	82	77	81	78	78	78	76	78	81	86	81	77	80	78	87	94	83	65	69	77	80	E
20-Apr-08	90	94	88	83	75	70	79	70	82	78	78	72	72	80	88	69	66	33	358	3	35	46	22	334	69	ENE
21-Apr-08	325	338	1	344	337	345	339	339	338	334	340	338	340	342	344	1	51	72	75	93	20	352	358	355	351	N
22-Apr-08	1	1	356	343	343	341	342	337	323	330	331	353	346	328	349	315	319	338	354	311	327	240	80	20	338	NNW
23-Apr-08	312	47	2	6	348	63	91	117	94	126	134	141	146	145	109	119	111	129	126	130	126	124	123	78	111	ESE
24-Apr-08	96	69	74	78	89	80	78	72	70	81	111	95	109	133	150	132	122	105	100	105	85	107	121	96	99	E
25-Apr-08	126	166	172	226	277	284	25	164	214	215	209	223	264	245	248	287	288	282	285	284	277	261	238	141	262	W
26-Apr-08	211	85	84	110	257	208	134	152	216	203	210	247	297	291	276	267	254	258	272	294	284	319	58	188	265	W
27-Apr-08	254	83	142	161	209	84	92	179	219	183	227	85	184	178	201	148	215	290	311	294	288	267	266	262	252	WSW
28-Apr-08	36	37	61	71	143	103	115	161	252	125	142	144	128	120	118	111	110	102	107	104	115	120	135	204	120	ESE
29-Apr-08	238	241	249	244	240	28	69	157	279	302	240	166	134	73	41	78	150	243	258	255	273	271	269	259	248	WSW
30-Apr-08	285	273	277	283	287	283	271	271	284	291	294	301	316	312	313	311	298	299	303	297	299	265	288	280	293	WNW
Hourly Avg	278	263	284	292	296	309	312	297	288	291	290	291	297	296	293	293	294	290	283	277	283	277	279	278		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	81.3	55.1	23.5	11.7	7.6	4.5	3.6

Status Flag Characters

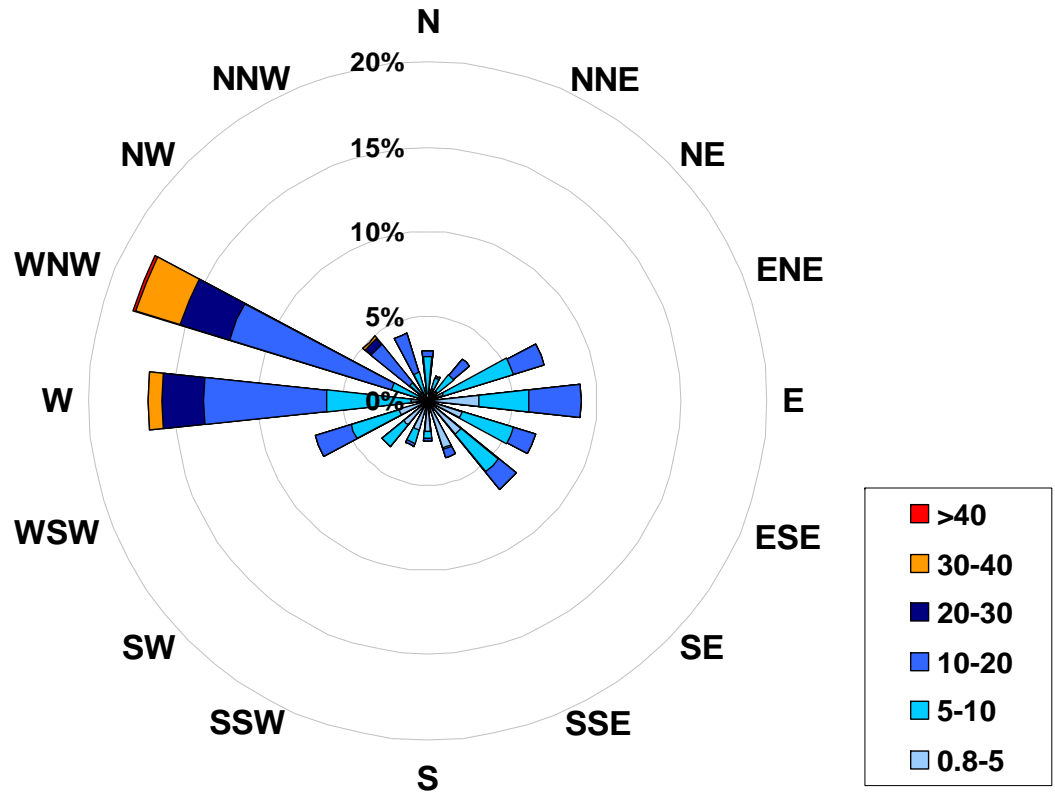
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	7	9	6	8	7	9	7	34	3	4	5	13	26	21	16	17	12	26	30	9	4	3	6	6		34.3	
2-Apr-08	9	10	25	50	12	15	81	12	6	6	5	9	10	10	8	8	6	14	8	9	5	5	5	38		81.2	
3-Apr-08	22	5	7	4	4	2	3	5	4	5	6	8	10	11	16	10	15	8	11	4	5	6	8	11		21.6	
4-Apr-08	34	10	11	48	20	36	23	54	11	30	13	20	46	77	49	17	8	7	11	63	76	56	29	21		77.0	
5-Apr-08	21	45	26	25	11	11	24	18	23	20	23	26	53	67	10	53	55	5	14	16	52	23	7	8		67.3	
6-Apr-08	9	53	9	65	21	29	13	10	19	12	14	14	12	13	18	16	10	6	6	8	12	28	7	5		64.9	
7-Apr-08	6	12	12	34	18	25	18	16	39	13	14	14	11	23	13	11	9	7	9	5	12	12	15	13		39.1	
8-Apr-08	59	23	47	60	45	33	16	15	17	17	26	29	47	30	30	87	96	21	12	61	9	18	39	85		95.7	
9-Apr-08	13	68	69	7	23	12	4	18	29	10	10	14	12	11	16	12	12	6	7	7	4	3	13	67		69.0	
10-Apr-08	80	29	23	20	33	17	11	16	33	12	16	21	65	18	17	11	9	9	8	5	5	7	10	10		79.5	
11-Apr-08	11	7	9	19	10	14	8	12	13	10	8	12	15	11	14	7	11	16	5	10	6	8	9	20		20.5	
12-Apr-08	55	30	53	20	22	24	42	25	39	30	35	31	22	40	75	8	10	4	4	5	4	4	4	6		75.0	
13-Apr-08	8	11	47	23	13	18	13	8	6	4	11	10	11	11	9	9	8	5	6	5	7	9	85	15		85.0	
14-Apr-08	6	6	9	8	8	5	8	6	8	10	9	9	12	9	9	11	9	9	8	8	7	3	4	11		11.7	
15-Apr-08	4	6	4	5	5	5	4	5	5	7	10	13	11	11	8	18	14	25	16	7	6	8	4	9		24.8	
16-Apr-08	33	16	42	55	37	6	5	7	8	4	4	6	5	6	6	6	6	7	8	7	6	6	8	6		55.2	
17-Apr-08	10	10	10	16	14	6	10	9	5	5	3	4	4	8	7	8	6	8	35	7	7	8	11	13		34.7	
18-Apr-08	10	11	22	19	22	26	30	30	28	30	37	38	31	29	20	16	20	21	12	8	6	7	7	7		37.6	
19-Apr-08	5	5	7	7	9	8	8	8	11	10	12	15	9	7	10	8	8	8	15	12	9	11	19	15		18.7	
20-Apr-08	10	11	15	14	7	10	6	11	8	9	12	8	14	12	12	12	11	27	28	33	18	14	27	10		33.4	
21-Apr-08	8	17	19	9	6	13	8	5	6	4	6	7	6	9	18	32	38	34	30	33	35	20	20	20		37.7	
22-Apr-08	25	21	19	10	12	9	10	10	7	13	12	44	30	20	26	10	17	30	46	13	68	81	32	32		81.3	
23-Apr-08	40	47	34	34	21	31	12	49	28	11	17	15	9	43	25	14	18	8	7	4	4	8	9	12		48.7	
24-Apr-08	7	11	8	11	11	8	7	8	7	16	17	14	20	10	11	22	29	25	21	15	10	18	6	7		28.9	
25-Apr-08	16	14	19	30	12	6	78	34	17	15	21	23	28	27	37	8	10	7	6	5	13	5	64	35		78.1	
26-Apr-08	40	54	13	40	29	28	38	49	24	15	11	23	8	14	16	13	11	7	12	8	14	58	46	49		58.5	
27-Apr-08	20	31	33	40	52	11	33	55	17	41	24	31	56	33	55	32	26	21	8	9	6	55	45	54		55.5	
28-Apr-08	45	55	31	68	44	29	18	37	25	29	11	18	56	22	32	15	14	10	10	6	6	9	22	36		67.7	
29-Apr-08	9	9	5	61	22	55	16	51	60	41	90	43	85	41	46	23	85	9	7	6	7	6	10	12		90.0	
30-Apr-08	9	7	8	6	4	5	5	8	7	4	5	5	6	5	5	5	4	4	5	5	7	7	8	9		9.3	

Hourly Max	80	68	69	68	52	55	81	55	60	41	90	44	85	77	75	87	96	34	46	63	76	81	85	85
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	164
5	to	10	235
10	to	20	250
20	to	30	43
30	to	40	27
	>	40	1
Total Non-Zero Values			720

PASZA

Portable – Spirit River Station Monthly Summary Tables, Graphs and Roses

PASZA - Portable-Spirit River Sulphur Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

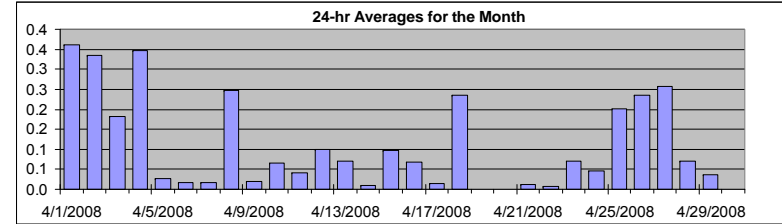
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	2.6	ppb	18-Apr	21:00	22:00
Maximum 24-hr Average:	0.4	ppb	1-Apr		



AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	0.6	0.1	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	A	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	A	0.4	1.3	
2-Apr-08	0	0	0	0	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	
3-Apr-08	0	0	0	A	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0.2	0.4		
4-Apr-08	0	1	0	A	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0.3	0.8		
5-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2		
6-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
7-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2		
8-Apr-08	1	1	1	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4		
9-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
10-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.1	0.8		
11-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.3		
12-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.1	0.5		
13-Apr-08	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	1.3		
14-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.2		
15-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.5		
16-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.5		
17-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.2		
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	1	3	1	0.2	2.6	
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.0	0.0		
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.0		
21-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.1		
22-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.1		
23-Apr-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	1.0		
24-Apr-08	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9		
25-Apr-08	0	0	0	0	0	0	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1		
26-Apr-08	0	0	0	1	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7		
27-Apr-08	0	0	0	0	0	0	0	A	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0.3	1.4		
28-Apr-08	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7		
29-Apr-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5		
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		
Hourly Avg	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.1		
Hourly Max	1.4	0.8	1.3	0.5	0.7	0.9	1.1	0.9	1.7	0.8	1.3	1.4	1.0	0.6	0.8	0.4	0.9	0.4	0.3	0.2	1.3	2.6	1.4	1.0		

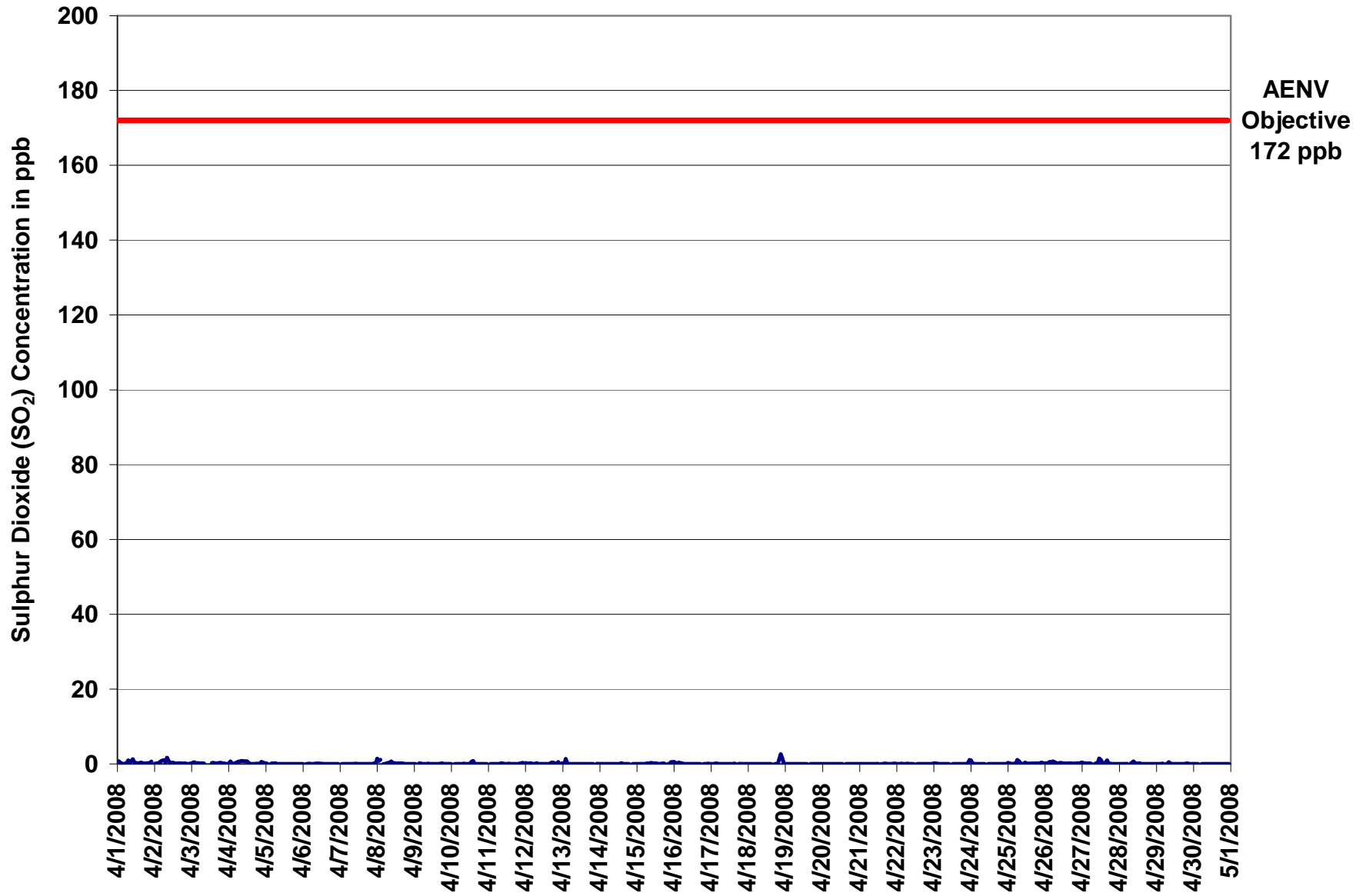


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

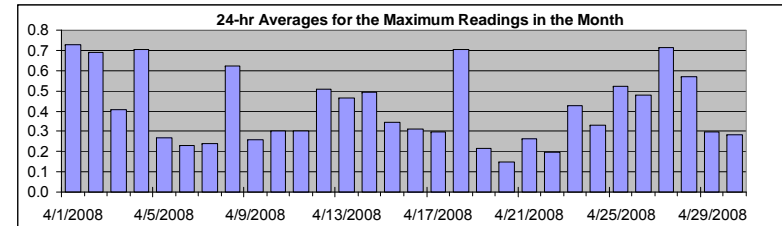
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	3.8	ppb	13-Apr	2:00 3:00
Maximum 24-hr Value:	0.7	ppb	1-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.2	0.4	0.3	0.2	0.1	0.1	0.4 ppb	0.3 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	24-hour Average	Daily Maximum
1-Apr-08	A	1	1	0	0	0	1	2	1	2	1	1	1	0	1	1	1	0	1	0	1	1	1	A	0.7	1.7
2-Apr-08	0	0	0	0	1	1	2	1	3	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0.7	2.8
3-Apr-08	0	1	1	A	0	0	0	0	0	C	C	C	A	1	1	0	0	1	1	0	0	0	0	0	0.4	0.8
4-Apr-08	0	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0.7	1.5
5-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
6-Apr-08	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
7-Apr-08	A	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1	1	1	0.2	0.7
8-Apr-08	2	2	2	A	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	2.2
9-Apr-08	0	0	A	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
10-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0.3	1.6
11-Apr-08	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	A	0.3	0.7
12-Apr-08	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	2	A	0	0	0.5	1.7
13-Apr-08	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0.5	3.8
14-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	1	1	A	0	0	0	0	0.5	2.2
15-Apr-08	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	1	1	1	1	0.3	1.2
16-Apr-08	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0	0	0.3	0.7
17-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	2	3	2	1	0.7	3.3
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.3
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.2
21-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	0.3
22-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
23-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	2	0.4	1.8
24-Apr-08	2	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7
25-Apr-08	1	1	0	0	0	1	2	1	1	A	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0.5	1.7
26-Apr-08	1	0	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.5	0.8
27-Apr-08	1	1	1	0	0	0	0	A	0	1	1	2	3	1	1	1	2	1	0	0	0	0	0	0	0.7	2.7
28-Apr-08	0	0	0	0	0	1	A	0	1	3	1	0	0	1	0	0	0	0	0	0	4	0	0	0	0.6	3.6
29-Apr-08	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.8
Hourly Avg	0.5	0.4	0.5	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.4		
Hourly Max	2.2	1.6	3.8	0.8	1.2	1.3	1.8	1.7	2.8	2.5	1.7	2.2	2.7	2.2	1.7	1.2	1.7	1.2	0.8	0.7	3.6	3.3	2.3	1.8		

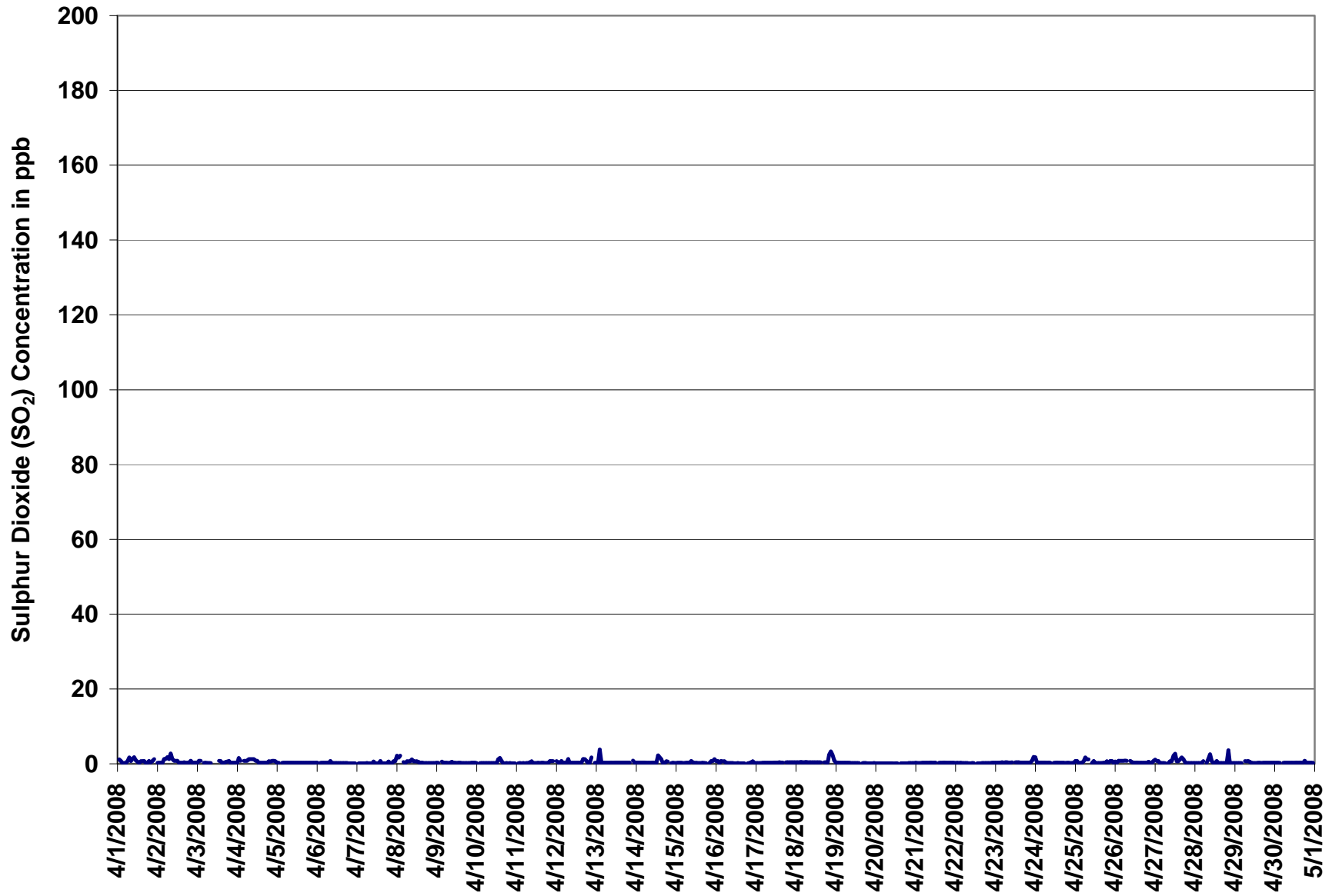
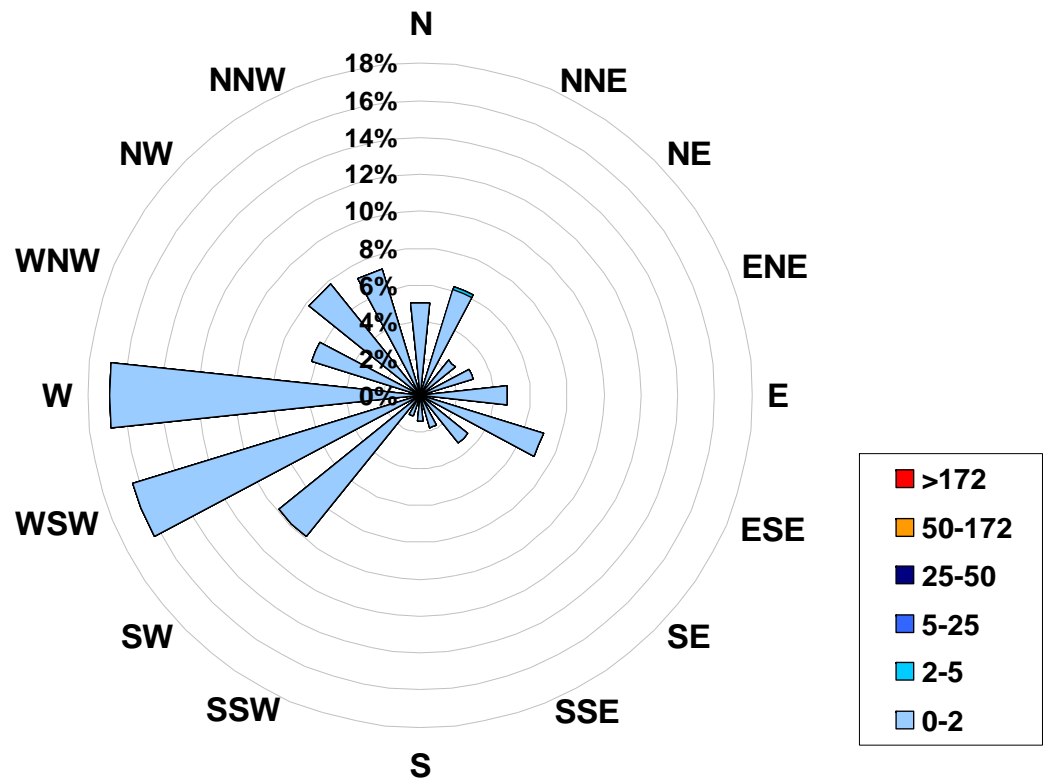


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	684
2	to	5	1
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			685

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

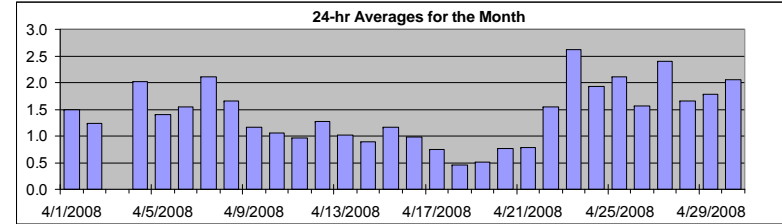
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb

Number of 1-hr Exceedances:		0			
Number of 24-hr Exceedances:		0			
Maximum 1-hr Average:	6.7	ppb	29-Apr	6:00	7:00
Maximum 24-hr Average:	2.6	ppb	23-Apr		



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.7	3.1	1.8	1.1	0.8	0.5	0.4	1.4 ppb	1.1 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	A	2	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	2	3	2	2	A	1.5	2.8	
2-Apr-08	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.2	2.0	
3-Apr-08	1	1	1	A	2	1	2	3	2	C	C	C	C	C	A	1	2	1	2	2	2	2	1	1	N	2.5	
4-Apr-08	1	2	2	A	4	4	2	2	2	2	3	2	2	1	1	1	1	3	3	2	2	2	2	2	2.0	4.3	
5-Apr-08	2	2	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.4	2.1	
6-Apr-08	2	A	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	2	1.5	2.9	
7-Apr-08	A	2	2	2	2	2	2	2	3	5	4	3	1	1	5	1	1	1	1	1	1	2	1	1	2.1	4.9	
8-Apr-08	2	1	2	A	2	2	3	2	3	4	2	1	1	1	1	1	1	1	1	2	2	2	1	1	1.6	3.8	
9-Apr-08	2	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	2	1	1.2	3.0	
10-Apr-08	1	A	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.1	
11-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.5	
12-Apr-08	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	A	2	1.3	2.2	
13-Apr-08	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1.0	2.1	
14-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	0.9	1.5	
15-Apr-08	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	4	3	4	1	1.2	3.9	
16-Apr-08	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	2.1	
17-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.5	
18-Apr-08	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	A	1	1	1	0	0	0	0.5	0.9	
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0.5	1.0	
20-Apr-08	0	1	1	1	1	1	0	1	0	0	1	0	0	0	A	1	1	1	1	1	3	1	1	1	0.8	2.5	
21-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.8	1.2	
22-Apr-08	1	1	1	1	3	1	2	1	1	1	1	1	A	1	1	1	1	1	1	1	2	3	5	5	1.5	4.6	
23-Apr-08	6	6	6	5	2	3	5	3	2	1	1	A	1	1	1	1	1	1	1	1	2	3	3	3	2.6	5.9	
24-Apr-08	3	3	3	3	2	3	3	3	1	1	A	1	1	1	1	1	1	1	1	1	3	3	3	2	1.9	3.4	
25-Apr-08	2	2	3	3	3	3	5	4	3	A	2	1	1	1	1	1	1	1	1	2	3	2	2	2	2.1	5.3	
26-Apr-08	1	1	1	2	2	2	1	2	A	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1.6	3.0	
27-Apr-08	4	2	2	3	5	5	4	A	5	3	3	2	2	1	1	1	2	1	1	1	1	2	2	2	2.4	4.6	
28-Apr-08	1	2	2	1	2	2	A	2	4	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1.6	3.6	
29-Apr-08	3	3	2	2	2	A	7	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	1.8	6.7	
30-Apr-08	2	2	2	2	A	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	1	2	2.1	3.4
Hourly Avg	1.6	1.6	1.7	1.7	1.7	1.8	2.0	1.6	1.5	1.3	1.2	1.0	0.9	0.9	1.0	0.9	1.0	1.0	1.2	1.4	1.8	1.7	1.8	1.6			
Hourly Max	5.6	5.9	5.9	5.0	4.5	4.6	6.7	4.2	4.5	4.9	4.0	2.7	1.9	1.8	4.6	2.4	1.9	2.5	2.9	3.2	3.9	3.4	4.6	4.5			

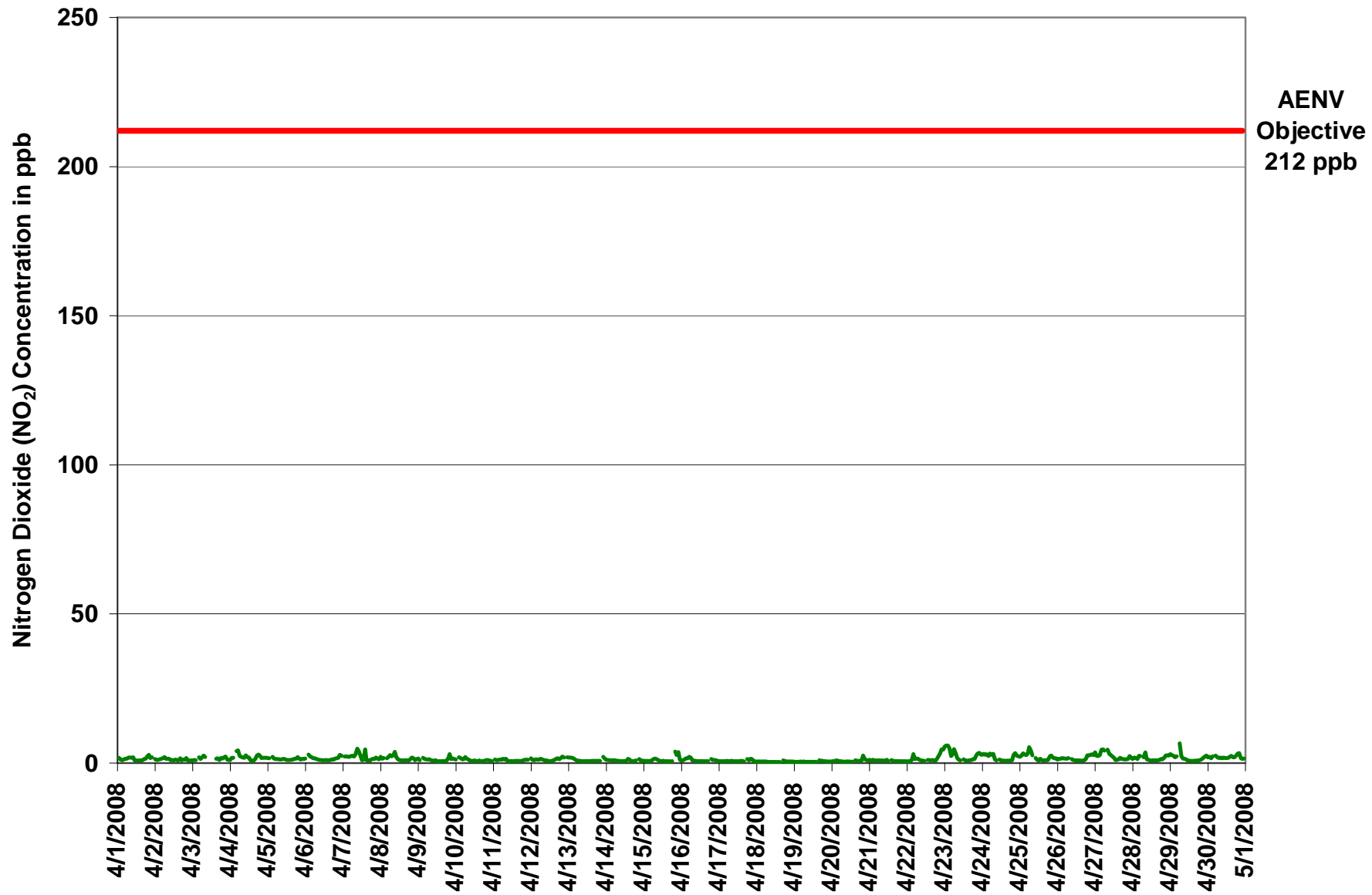


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

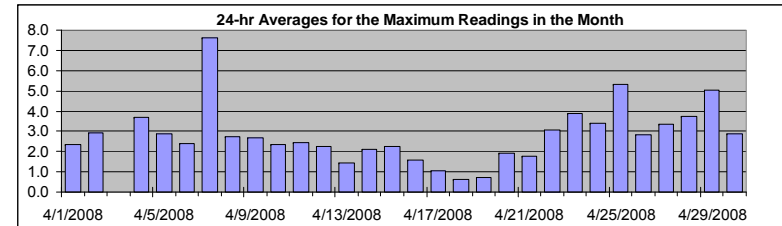
Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	90.0	ppb	7-Apr	14:00 15:00
Maximum 24-hr Value:	7.6	ppb	7-Apr	

AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.4	7.0	3.1	1.9	1.1	0.6	0.5	2.8 ppb	1.9 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	2	2	1	2	2	2	3	4	2	2	1	2	2	1	1	2	3	3	3	5	3	3	A	2.3	4.9
2-Apr-08	2	1	1	2	2	2	2	6	2	3	9	2	2	1	8	2	2	13	1	2	2	3	1	1	2.9	12.6
3-Apr-08	1	1	1	A	5	3	4	7	8	C	C	C	C	C	A	16	3	2	4	3	4	6	2	1	N	16.0
4-Apr-08	1	3	3	A	6	7	3	5	7	4	4	2	5	2	1	3	4	4	3	3	3	5	3	2	3.7	7.1
5-Apr-08	2	2	A	3	2	2	3	2	2	2	3	3	1	1	1	5	5	5	6	7	2	1	4	2	2.9	7.5
6-Apr-08	3	A	4	3	2	2	2	2	2	1	1	1	1	2	1	1	1	6	2	5	4	3	3	3	2.4	6.2
7-Apr-08	A	3	3	2	3	6	6	2	6	6	5	4	1	6	90	5	3	2	7	3	5	5	2	2	7.6	90.0
8-Apr-08	3	2	3	A	2	3	6	3	5	4	4	2	1	2	2	3	1	1	1	2	3	3	2	3	2.7	6.0
9-Apr-08	2	1	A	3	2	2	5	3	1	4	1	13	1	1	1	1	1	1	2	5	5	3	3	2	2.7	12.7
10-Apr-08	1	A	3	2	2	2	8	6	2	2	1	3	3	1	2	3	1	2	1	2	4	1	1	1	2.4	7.8
11-Apr-08	A	2	1	1	2	1	11	2	7	2	1	1	1	3	3	2	2	1	2	2	2	2	1	A	2.5	11.2
12-Apr-08	3	1	1	2	2	1	3	2	3	2	4	1	1	1	2	2	2	4	2	3	4	3	A	3	2.3	4.4
13-Apr-08	2	2	2	2	2	2	2	1	1	1	1	1	2	1	1	1	1	2	1	1	1	A	3	2	1.4	2.7
14-Apr-08	1	1	1	2	1	2	1	1	4	1	1	1	1	4	5	6	1	1	2	7	A	2	1	1	2.1	7.4
15-Apr-08	1	1	1	1	1	1	12	2	2	1	1	1	1	1	1	1	1	1	1	A	6	5	8	1	2.2	12.3
16-Apr-08	1	1	2	2	2	2	3	1	2	1	1	1	1	3	1	1	2	2	A	2	2	1	1	1	1.6	2.5
17-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	2	2	1	1	1.1	2.0
18-Apr-08	1	1	1	1	1	1	1	0	0	0	1	1	0	0	1	0	A	2	1	1	1	1	1	1	0.6	1.5
19-Apr-08	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	A	2	1	1	1	2	1	1	1	0.7	1.5
20-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	22	3	2	1	1.9	22.2
21-Apr-08	2	1	2	1	1	1	2	1	1	1	1	18	1	A	2	1	1	1	1	1	1	1	1	1	1.8	18.1
22-Apr-08	1	1	1	2	10	2	6	2	2	2	1	1	A	2	2	1	2	1	1	3	4	13	6	6	3.1	12.5
23-Apr-08	6	8	7	6	4	4	10	5	2	2	1	A	2	1	1	1	2	3	3	2	4	4	5	5	3.9	10.2
24-Apr-08	4	4	4	4	4	5	4	7	2	4	A	2	1	1	1	1	2	1	1	1	10	8	4	3	3.4	9.9
25-Apr-08	2	3	6	6	3	4	8	14	8	A	2	2	1	25	2	1	4	1	1	18	3	3	2	2	5.3	25.4
26-Apr-08	2	2	2	2	2	2	2	9	A	2	2	1	1	1	1	1	1	2	11	4	3	6	4	2.8	11.4	
27-Apr-08	7	4	3	3	5	6	5	A	5	4	3	3	2	1	1	2	2	2	3	3	4	2	4	3	3.4	6.7
28-Apr-08	2	2	2	2	3	3	A	4	23	2	3	3	2	5	1	2	2	3	4	2	3	4	5	3	3.7	22.6
29-Apr-08	4	4	3	3	3	A	68	4	2	2	2	1	1	1	1	1	1	1	1	1	2	3	3	3	5.0	68.5
30-Apr-08	2	3	2	4	A	3	2	3	2	2	2	2	2	2	4	4	4	3	3	6	5	2	2	2	2.9	6.0
Hourly Avg	2.2	2.2	2.2	2.3	2.5	2.6	6.5	3.4	3.8	2.3	1.8	2.5	1.4	2.9	4.7	2.5	2.3	2.0	2.2	3.6	4.1	3.2	2.6	2.1		
Hourly Max	6.7	8.5	7.0	6.0	9.9	7.1	68.5	14.1	22.6	8.6	4.7	18.1	4.6	25.4	90.0	16.0	12.6	6.2	7.0	18.2	22.2	12.5	7.9	5.7		

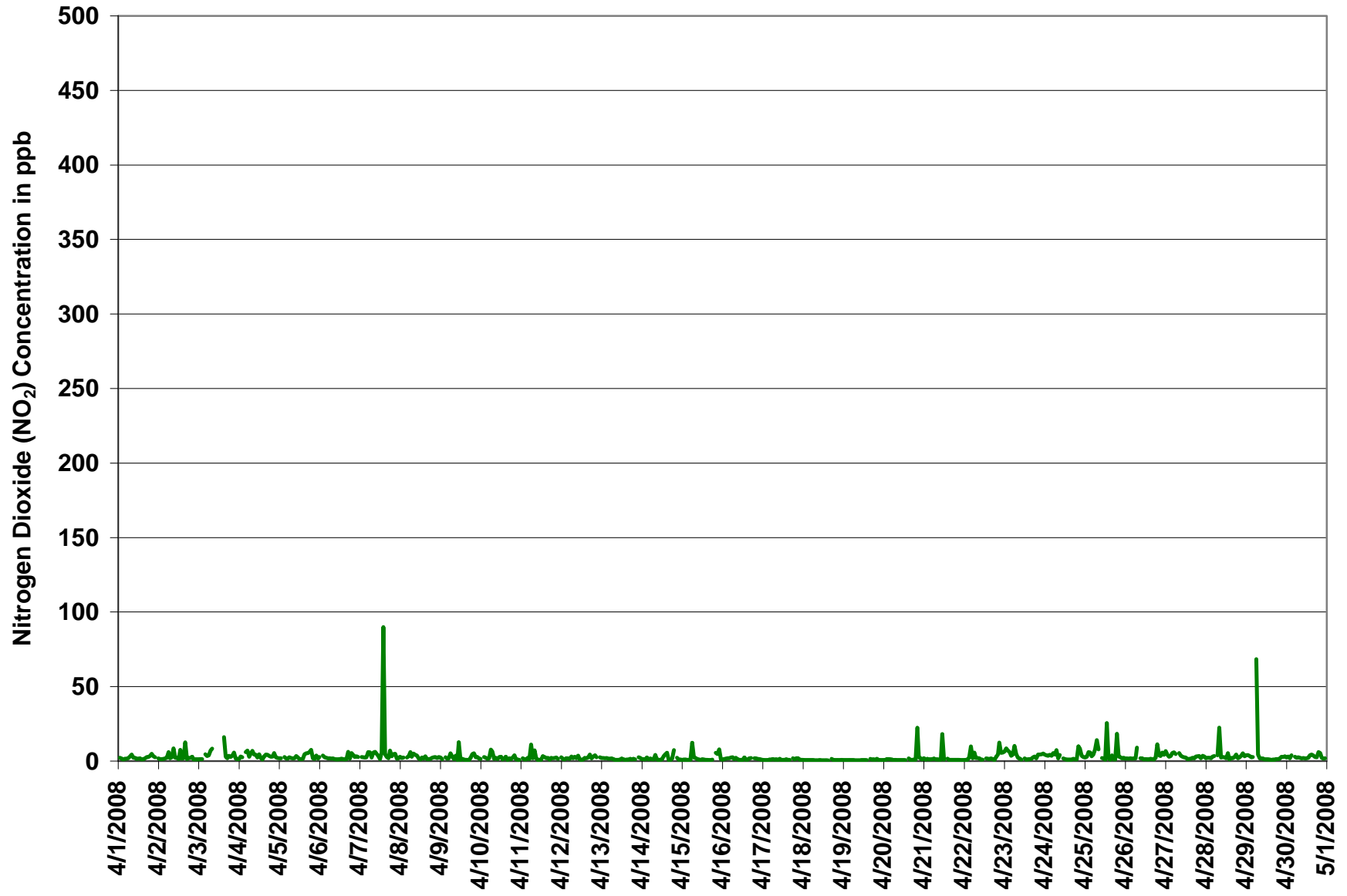
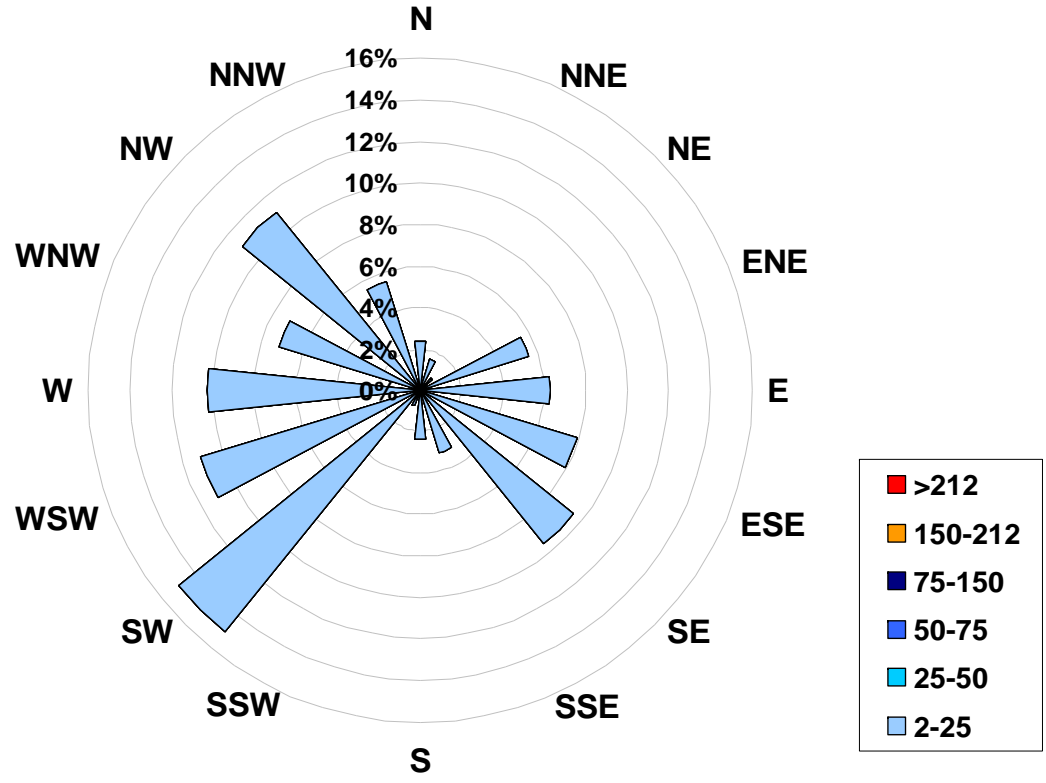


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for April 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	<	25	683
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			683

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

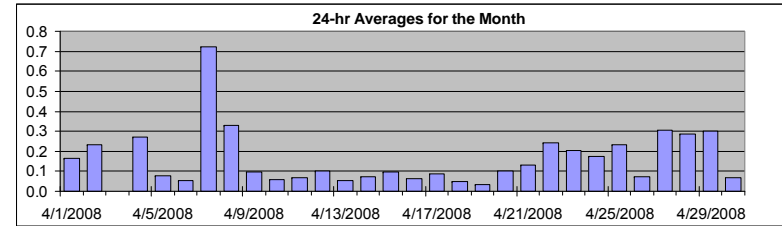
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Guideline Limit: 1-hr na ppb 24-hr na ppb
 Summary

Maximum 1-hr Average:	8.5	ppb	7-Apr	14:00 15:00
Maximum 24-hr Average:	0.7	ppb	7-Apr	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	0.6	0.1	0.1	0.0	0.0	0.0	0.2 ppb	0.1 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Apr-08	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.8
2-Apr-08	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0.2	1.4
3-Apr-08	0	0	0	A	0	0	0	0	1	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	N	0.7
4-Apr-08	0	0	0	A	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	1.0
5-Apr-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
7-Apr-08	A	0	0	0	0	0	0	0	1	2	2	2	0	0	8	0	0	0	0	0	0	0	0	0	0.7	8.5
8-Apr-08	0	0	0	A	0	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.8
9-Apr-08	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4
10-Apr-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
11-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4
12-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.3
13-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
14-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.4
15-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.5
16-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
17-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.2
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.1
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.1
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	2	0	0	0.1	1.6
21-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.4
22-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0.2	0.8
23-Apr-08	0	0	0	0	0	0	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
24-Apr-08	0	0	0	0	0	0	1	2	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
25-Apr-08	0	0	0	0	0	0	1	2	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1
26-Apr-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
27-Apr-08	0	0	0	0	0	0	1	A	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
28-Apr-08	0	0	0	0	0	0	A	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	4.8
29-Apr-08	0	0	0	0	0	A	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	5.5
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.5	0.4	0.3	0.3	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hourly Max	0.1	0.1	0.1	0.2	0.3	0.3	5.5	2.1	4.8	2.8	2.1	1.6	0.8	1.4	8.5	0.3	1.0	0.4	0.2	0.3	1.6	0.8	0.2	0.1		

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

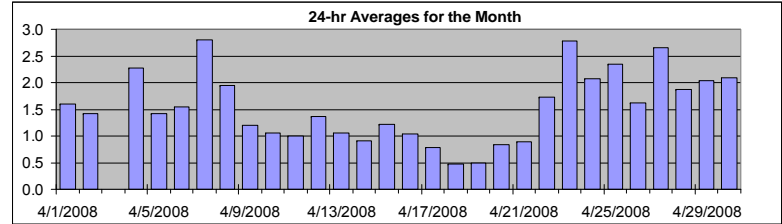
Oxides of Nitrogen (NO_x)

Station: Portable-Spirit River
 Station Owner: PASZA

Monitoring Dates: April 1, 2008 to May 1, 2008

Guideline Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb

Maximum 1-hr Average:	13.0	ppb	7-Apr	14:00 15:00
Maximum 24-hr Average:	2.8	ppb	7-Apr	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.3	3.6	1.8	1.2	0.8	0.5	0.4	1.5 ppb	1.2 ppb

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	A	2	1	1	1	1	1	2	2	2	3	1	1	1	1	1	1	1	2	2	3	2	2	A	1.6	2.8	
2-Apr-08	1	1	1	1	1	2	2	2	2	2	1	1	1	3	1	1	3	1	1	1	2	1	1	1	1.4	2.6	
3-Apr-08	1	1	1	A	2	1	2	3	3	C	C	C	C	C	A	2	2	1	2	2	2	2	1	1	N	2.9	
4-Apr-08	1	2	2	A	4	4	2	2	2	3	4	3	3	1	1	1	2	3	3	3	2	2	2	2	2.3	4.5	
5-Apr-08	2	2	A	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1	2	1	1	1	1.4	2.1	
6-Apr-08	2	A	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	1.5	2.9	
7-Apr-08	A	2	2	2	2	2	3	3	4	7	6	4	1	1	13	1	1	1	1	1	1	2	1	1	2.8	13.0	
8-Apr-08	2	1	2	A	2	2	3	3	4	7	3	2	1	1	1	1	1	1	1	1	2	2	1	1	1.9	6.6	
9-Apr-08	2	1	A	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	3	1	2	1	1.2	3.1	
10-Apr-08	1	A	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2	
11-Apr-08	A	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.8	
12-Apr-08	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	A	2	1.4	2.3	
13-Apr-08	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1.1	2.2	
14-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	0.9	1.8	
15-Apr-08	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	A	4	3	4	1	1.2	4.0	
16-Apr-08	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	2.2	
17-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	0.8	1.6	
18-Apr-08	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	A	A	1	1	1	0	0	0	0.5	0.9	
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	1	1	1	1	1	0	0	0	0.5	1.0	
20-Apr-08	1	1	1	1	1	1	0	1	0	1	1	1	0	1	A	1	1	1	1	1	4	1	1	1	0.8	4.0	
21-Apr-08	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	0.9	1.6	
22-Apr-08	1	1	1	1	3	2	2	2	1	1	1	1	A	1	1	1	1	1	1	2	2	4	5	5	1.7	4.8	
23-Apr-08	6	6	6	5	2	3	5	4	2	1	1	A	1	1	1	1	1	1	1	1	3	3	4	3	2.8	6.0	
24-Apr-08	3	3	3	3	2	3	3	5	2	1	A	1	1	1	1	1	1	1	1	1	3	4	3	2	2.1	4.6	
25-Apr-08	2	3	3	3	3	3	6	6	3	A	2	1	1	2	1	1	1	1	1	2	3	2	2	2	2.3	6.4	
26-Apr-08	1	1	1	2	2	2	2	2	A	2	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1.6	3.0	
27-Apr-08	4	2	2	3	5	5	5	A	6	4	4	3	2	1	1	1	2	1	1	1	1	2	2	2	2.7	6.3	
28-Apr-08	1	2	2	1	3	2	A	2	8	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1.9	8.3	
29-Apr-08	3	3	2	2	2	A	12	3	2	2	1	1	1	1	1	1	1	1	1	1	2	2	3	3	2.0	12.1	
30-Apr-08	2	2	2	2	A	3	2	2	2	2	2	2	2	2	2	3	2	2	3	3	4	2	1	1	2.1	3.5	
Hourly Avg	1.6	1.6	1.7	1.7	1.8	1.8	2.4	1.9	2.0	1.7	1.5	1.3	1.0	1.0	1.3	1.0	1.1	1.0	1.2	1.4	1.9	1.8	1.8	1.6			
Hourly Max	5.7	6.0	6.0	5.2	4.6	4.8	12.1	6.3	8.3	6.9	6.1	4.2	2.7	2.6	13.0	2.6	2.6	2.9	3.1	3.3	4.0	3.9	4.8	4.7			

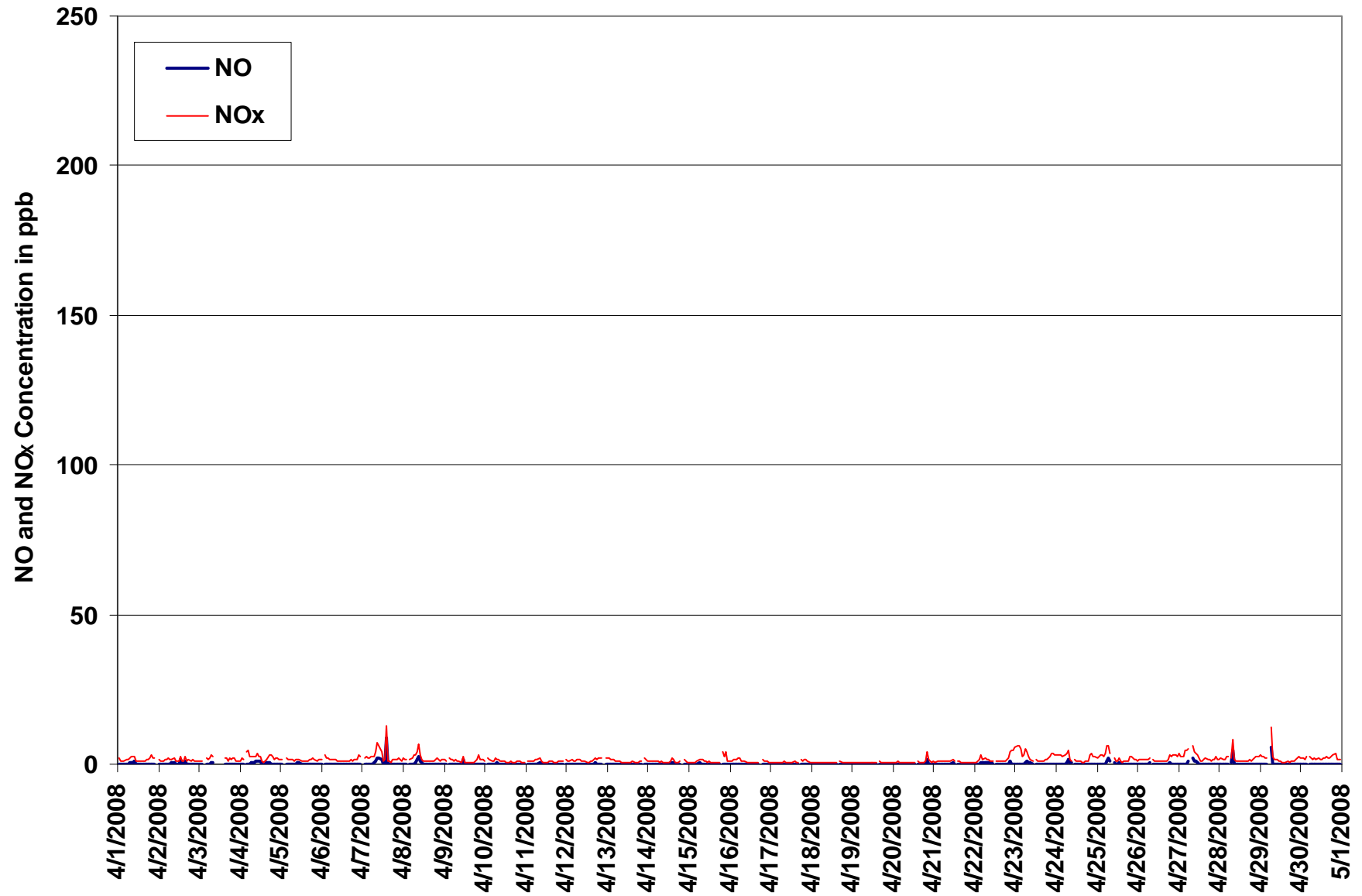


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

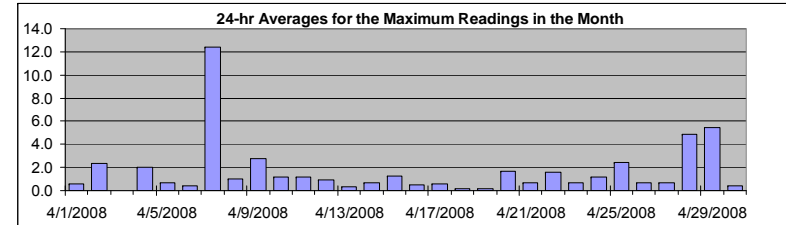
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	259.3	ppb	7-Apr	14:00 15:00
Maximum 24-hr Value:	12.4	ppb	7-Apr	



AIC Time:	32 hrs	Operational Time:	683 hrs							
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%							
Percentile	99	95	75	50	25	5	1	Average	Median	
	23.7	3.8	0.8	0.2	0.1	0.0	1.7	ppb	0.2	ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	0	0	0	0	0	0	1	2	1	1	0	1	0	0	0	0	0	0	0	2	0	A	0.6	2.3	
2-Apr-08	0	0	0	0	0	1	1	3	2	5	1	1	0	24	1	1	14	0	0	0	0	0	0	2.4	23.8	
3-Apr-08	0	0	0	A	0	1	0	5	17	C	C	C	C	C	A	13	0	0	1	0	1	2	0	N	16.8	
4-Apr-08	0	0	1	A	0	1	0	1	6	20	2	1	3	1	0	1	2	2	0	0	0	1	0	2.0	20.5	
5-Apr-08	0	0	A	0	0	0	0	0	0	0	3	1	0	0	0	3	3	2	1	1	0	0	0	0.7	2.8	
6-Apr-08	1	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	1	1	0	0	0.4	2.5	
7-Apr-08	A	0	0	0	0	0	0	0	3	3	2	2	0	3	259	4	1	1	3	1	0	0	0	12.4	259.3	
8-Apr-08	0	0	0	A	0	0	1	1	4	3	3	1	0	1	1	1	0	3	0	1	0	0	0	1.0	4.0	
9-Apr-08	0	0	A	0	0	0	2	4	1	2	0	48	0	1	0	0	0	0	0	2	2	1	1	2.8	48.4	
10-Apr-08	0	A	0	0	0	0	5	4	0	1	0	6	4	0	1	1	0	0	0	1	1	0	0	1.1	6.3	
11-Apr-08	A	0	0	0	0	0	4	0	4	1	0	0	0	2	4	3	2	0	1	0	1	1	0	1.2	4.4	
12-Apr-08	0	0	0	0	1	0	2	0	5	1	1	1	0	1	1	1	1	4	1	2	0	0	A	0.9	4.6	
13-Apr-08	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	A	0	0.4	2.2	
14-Apr-08	0	0	0	1	0	0	0	0	2	0	0	0	0	1	3	2	0	0	0	2	A	0	0	0.6	2.7	
15-Apr-08	0	0	0	0	0	0	17	1	0	0	0	0	0	0	0	0	0	0	0	A	2	0	6	1.3	16.6	
16-Apr-08	0	0	0	0	0	0	1	2	1	1	0	0	0	2	0	0	1	2	A	0	0	0	0	0.5	1.8	
17-Apr-08	0	0	0	0	0	0	1	4	0	0	4	0	0	0	0	0	0	A	0	0	0	0	0	0.6	4.3	
18-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.3	
19-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0.2	0.5	
20-Apr-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	35	1	0	1.7	35.0	
21-Apr-08	0	0	0	0	0	1	1	0	0	0	1	8	1	A	0	0	0	0	0	0	0	0	0	0.7	8.3	
22-Apr-08	0	0	0	1	1	1	1	0	1	1	1	0	A	0	1	1	0	0	0	0	0	26	0	1.6	26.1	
23-Apr-08	0	0	0	1	0	1	2	2	1	1	0	A	0	0	0	0	1	1	2	0	0	1	0	0.6	2.1	
24-Apr-08	0	0	0	1	0	0	1	12	1	3	A	0	0	0	0	0	0	1	0	0	4	1	0	1.2	12.3	
25-Apr-08	0	0	0	0	0	0	2	24	6	A	0	0	0	13	1	0	2	0	0	5	0	0	0	2.5	23.7	
26-Apr-08	0	0	0	0	0	0	0	3	A	1	1	0	0	0	0	1	0	0	0	5	0	0	1	0.6	5.2	
27-Apr-08	0	0	0	0	1	1	1	A	2	2	1	1	0	0	0	0	0	0	0	1	3	0	0	0.7	2.8	
28-Apr-08	0	0	0	0	0	1	A	4	90	1	2	1	1	4	0	1	1	0	0	0	3	1	0	4.9	89.5	
29-Apr-08	0	0	0	0	0	A	120	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.4	119.5	
30-Apr-08	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0.4	1.8	
Hourly Avg	0.2	0.2	0.2	0.3	0.2	0.4	5.7	2.6	5.2	1.8	1.0	2.7	0.6	2.1	9.8	1.2	1.1	0.8	0.5	0.9	2.0	1.4	0.4	0.2		
Hourly Max	0.8	0.4	0.7	1.0	0.9	1.3	119.5	23.7	89.5	20.5	4.3	48.4	4.0	23.8	259.3	12.7	13.8	3.6	3.3	5.5	35.0	26.1	5.6	0.5		

Station: Portable-Spirit River
 Station Owner: PASZA

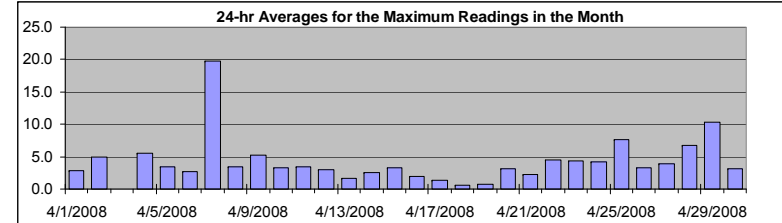
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	347.8	ppb	7-Apr	14:00 15:00
Maximum 24-hr Value:	19.8	ppb	7-Apr	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.9	9.3	3.7	2.2	1.2	0.6	0.5	4.3 ppb	2.2 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	2	2	1	1	2	2	4	7	3	3	2	2	3	1	1	2	3	3	4	5	5	3	A	2.8	6.7
2-Apr-08	2	1	1	1	2	3	7	4	4	13	4	3	2	29	2	3	23	1	2	2	3	1	1	1	4.9	29.5
3-Apr-08	1	1	1	A	5	4	4	12	23	C	C	C	C	C	A	29	4	2	4	3	4	7	2	1	N	28.9
4-Apr-08	1	3	3	A	6	8	3	6	10	25	6	3	8	4	2	4	7	6	4	3	3	6	3	2	5.5	24.8
5-Apr-08	2	2	A	3	2	1	3	2	2	2	6	3	2	1	2	7	8	7	7	8	2	1	4	2	3.5	8.4
6-Apr-08	4	A	4	3	2	2	2	2	3	1	1	1	1	2	1	1	1	8	1	7	5	3	3	3	2.7	8.4
7-Apr-08	A	3	3	2	3	6	6	3	8	9	7	6	1	9	348	8	4	3	10	4	5	5	2	2	19.8	347.8
8-Apr-08	3	2	2	A	3	3	7	4	9	7	7	3	1	3	2	4	1	3	2	3	3	3	2	3	3.5	9.0
9-Apr-08	3	1	A	3	2	2	7	5	2	5	1	61	1	2	1	1	1	1	2	7	6	3	4	2	5.3	61.2
10-Apr-08	1	A	3	3	1	2	12	10	2	4	2	8	6	1	3	4	1	2	1	3	5	1	1	1	3.3	12.3
11-Apr-08	A	2	1	1	2	1	16	2	11	3	1	1	1	5	5	5	4	1	3	3	3	4	1	A	3.5	15.6
12-Apr-08	2	1	1	2	2	1	5	2	5	3	5	2	1	2	3	2	3	8	2	5	4	3	A	3	3.0	7.7
13-Apr-08	2	2	2	2	2	2	3	1	1	1	1	1	3	1	1	1	1	2	1	2	2	A	3	2	1.6	2.9
14-Apr-08	1	1	1	3	1	2	2	1	6	1	1	1	2	5	6	7	1	1	2	9	A	2	1	1	2.6	9.0
15-Apr-08	1	1	1	1	1	1	29	3	2	2	1	1	1	1	1	1	1	1	1	A	6	5	13	1	3.3	28.9
16-Apr-08	1	1	2	2	2	2	3	2	3	2	1	1	1	4	1	1	2	3	A	2	2	2	1	1	1.9	4.2
17-Apr-08	1	1	1	1	1	1	2	2	1	1	6	1	1	1	1	1	1	A	2	1	2	2	1	1	1.4	5.7
18-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	1	1	1	1	1	0	1	0.7	1.5
19-Apr-08	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	2	1	1	1	0.7	1.9
20-Apr-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	50	4	2	1	3.2	49.9
21-Apr-08	3	1	2	1	1	2	2	1	1	1	1	26	1	A	2	1	1	1	1	1	1	1	1	1	2.3	26.2
22-Apr-08	1	1	1	3	10	2	7	3	3	2	1	1	A	2	2	2	2	2	1	3	5	38	6	6	4.5	38.4
23-Apr-08	6	9	7	6	4	5	11	6	3	2	1	A	2	1	1	2	2	4	5	2	4	5	5	5	4.3	11.3
24-Apr-08	5	4	4	5	4	6	6	13	3	7	A	2	1	1	1	1	1	2	1	1	14	10	4	3	4.1	13.7
25-Apr-08	3	3	6	6	3	5	9	38	14	A	3	2	1	38	2	1	6	1	1	24	3	3	2	2	7.6	38.4
26-Apr-08	2	2	2	2	2	2	2	12	A	3	3	1	1	1	1	2	1	1	2	16	4	3	6	5	3.3	16.0
27-Apr-08	7	4	3	3	6	7	6	A	7	5	4	3	3	1	2	2	3	2	3	4	5	2	4	3	3.9	7.0
28-Apr-08	2	2	2	2	3	4	A	8	77	3	5	3	2	9	1	3	2	3	5	2	3	5	5	3	6.8	76.8
29-Apr-08	4	4	3	3	3	A	188	5	2	2	2	1	1	1	1	1	1	1	1	1	2	3	3	4	10.3	187.7
30-Apr-08	2	3	2	4	A	3	2	3	3	2	2	2	2	3	4	5	5	3	3	6	7	3	2	2	3.1	7.2
Hourly Avg	2.2	2.2	2.2	2.4	2.6	2.8	12.0	5.4	7.4	4.0	2.7	5.1	1.8	4.8	14.3	3.5	3.1	2.6	2.6	4.4	5.5	4.5	2.9	2.2		
Hourly Max	6.7	8.7	7.2	6.1	10.0	8.4	187.7	37.7	76.8	24.8	6.7	61.2	7.8	38.4	347.8	28.9	22.9	8.4	10.2	23.6	49.9	38.4	13.4	5.8		

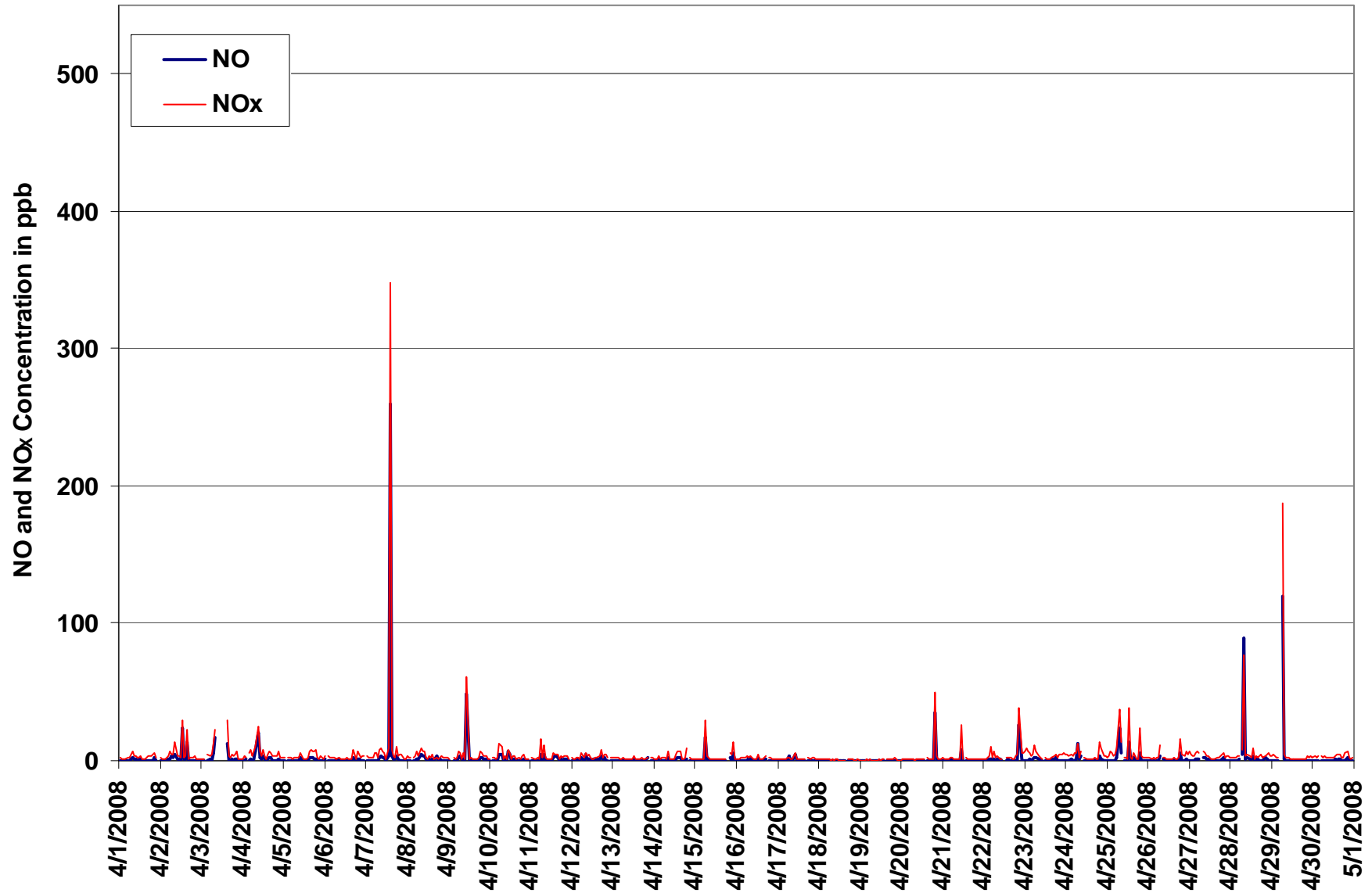


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

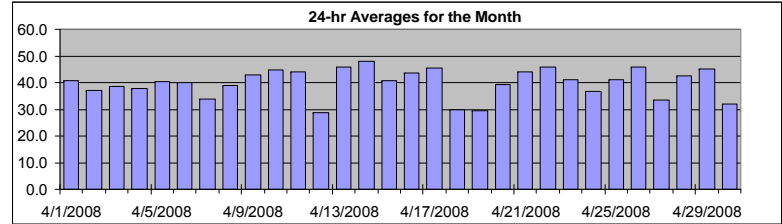
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb

Number of 1-hr Exceedances:		0	
Maximum 1-hr Average:	57.0 ppb	13-Apr	14:00 15:00
Maximum 24-hr Average:	47.9 ppb	14-Apr	



AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	54.5	51.7	46.1
	39.8	34.8	26.6
	5	1	1
	22.3	39.9 ppb	39.8 ppb

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	A	39	40	40	38	38	38	38	38	39	40	45	46	46	46	46	46	45	41	38	35	38	38	A	40.9	46.2	
2-Apr-08		37	37	37	36	35	35	35	36	37	36	39	40	40	39	40	40	40	40	38	34	33	36	37	37	37.1	40.1
3-Apr-08		37	36	35	A	36	37	35	32	33	36	37	37	40	C	C	C	A	50	48	48	40	38	38	40	38.5	50.3
4-Apr-08		40	40	38	A	32	32	34	36	37	37	38	40	41	45	46	45	45	42	35	35	34	31	33	37.8	45.6	
5-Apr-08		35	36	A	36	37	38	39	39	39	39	39	41	42	44	46	46	45	45	43	40	40	41	39	39	40.4	45.6
6-Apr-08		36	A	34	35	35	35	35	37	40	41	42	43	44	45	47	47	45	44	43	42	40	37	38	37	40.2	47.4
7-Apr-08		A	35	32	29	28	22	19	28	28	27	27	33	42	42	42	44	43	42	38	36	38	33	34	36	33.8	43.7
8-Apr-08		35	37	36	A	34	31	28	29	31	30	38	41	44	46	47	48	48	47	41	41	38	38	37	38.8	48.3	
9-Apr-08		31	27	A	31	38	41	44	44	45	47	49	48	49	49	49	50	50	51	48	41	39	42	38	37	42.9	50.7
10-Apr-08		37	A	40	39	40	41	39	41	44	49	50	49	48	51	51	50	51	50	48	46	43	40	42	41	44.8	51.3
11-Apr-08		A	43	41	41	40	39	40	40	41	45	46	46	48	48	51	52	51	48	47	43	42	39	38	A	44.0	52.4
12-Apr-08		32	32	31	27	25	25	28	28	30	32	32	31	30	32	33	32	29	28	27	23	24	24	A	30	28.9	32.6
13-Apr-08		30	30	29	29	30	41	50	53	54	54	55	56	56	57	54	52	51	49	47	43	A	39	42	45.9	57.0	
14-Apr-08		47	46	47	47	46	46	46	48	48	50	53	52	51	51	51	50	49	47	47	46	A	46	45	42	47.9	52.7
15-Apr-08		42	42	41	41	40	38	38	37	39	42	45	45	45	46	45	46	47	47	45	A	28	31	28	40	40.8	47.2
16-Apr-08		41	41	40	39	38	37	38	43	45	46	46	44	45	45	46	47	48	46	A	47	48	45	45	46	43.7	47.7
17-Apr-08		47	49	49	50	49	49	50	50	49	52	49	48	48	49	48	48	45	A	41	38	32	31	34	37	45.3	51.8
18-Apr-08		36	37	37	36	32	30	29	27	27	28	28	28	29	28	29	31	A	30	29	29	27	27	26	28	29.9	37.4
19-Apr-08		27	26	26	25	24	24	23	24	24	24	26	29	29	29	30	A	37	38	35	35	34	35	36	35	29.3	37.8
20-Apr-08		35	37	37	37	37	37	37	36	36	35	36	38	40	40	A	40	41	42	42	43	42	44	44	42	39.1	44.3
21-Apr-08		40	39	38	38	39	39	39	40	40	41	41	43	45	A	49	51	51	51	51	50	48	48	47	47	44.1	50.9
22-Apr-08		48	47	46	45	42	45	44	43	45	47	48	49	A	50	50	51	50	51	51	47	45	41	38	37	46.0	51.1
23-Apr-08		36	37	36	36	38	35	32	35	40	44	47	A	49	49	49	49	48	47	45	42	38	37	36	36	41.0	49.4
24-Apr-08		33	30	32	32	35	29	28	27	34	37	A	41	43	44	45	45	45	44	44	43	37	34	31	31	36.7	45.3
25-Apr-08		33	31	29	30	29	26	28	35	43	A	50	49	50	51	53	52	51	53	51	42	40	41	41	39	41.1	53.0
26-Apr-08		43	43	43	41	41	42	43	44	A	51	50	53	53	54	56	56	55	54	48	39	39	37	34	30	45.6	56.2
27-Apr-08		27	23	24	17	19	19	14	A	22	23	25	33	47	51	52	51	46	44	41	45	42	38	35	32	33.5	51.8
28-Apr-08		31	31	32	38	35	36	A	46	41	49	49	54	54	51	50	51	52	48	43	44	38	37	35	34	42.4	53.9
29-Apr-08		32	34	33	35	34	A	34	41	49	51	51	52	53	53	55	54	54	53	52	51	49	40	36	37	45.0	54.6
30-Apr-08		35	34	34	31	A	35	34	34	32	30	30	34	36	36	34	33	35	39	25	22	23	34	32	28	32.1	38.9
Hourly Avg		36.5	36.3	36.3	35.6	35.4	35.2	35.2	37.6	38.4	40.1	41.5	42.8	44.4	45.3	46.4	46.8	46.4	45.4	42.9	40.5	38.0	37.5	36.9	36.8		
Hourly Max		47.7	48.8	49.3	50.2	49.3	49.1	50.3	52.7	54.4	53.6	54.3	54.5	56.0	56.3	57.0	56.2	55.4	54.5	52.1	51.3	48.9	48.3	47.3	46.8		

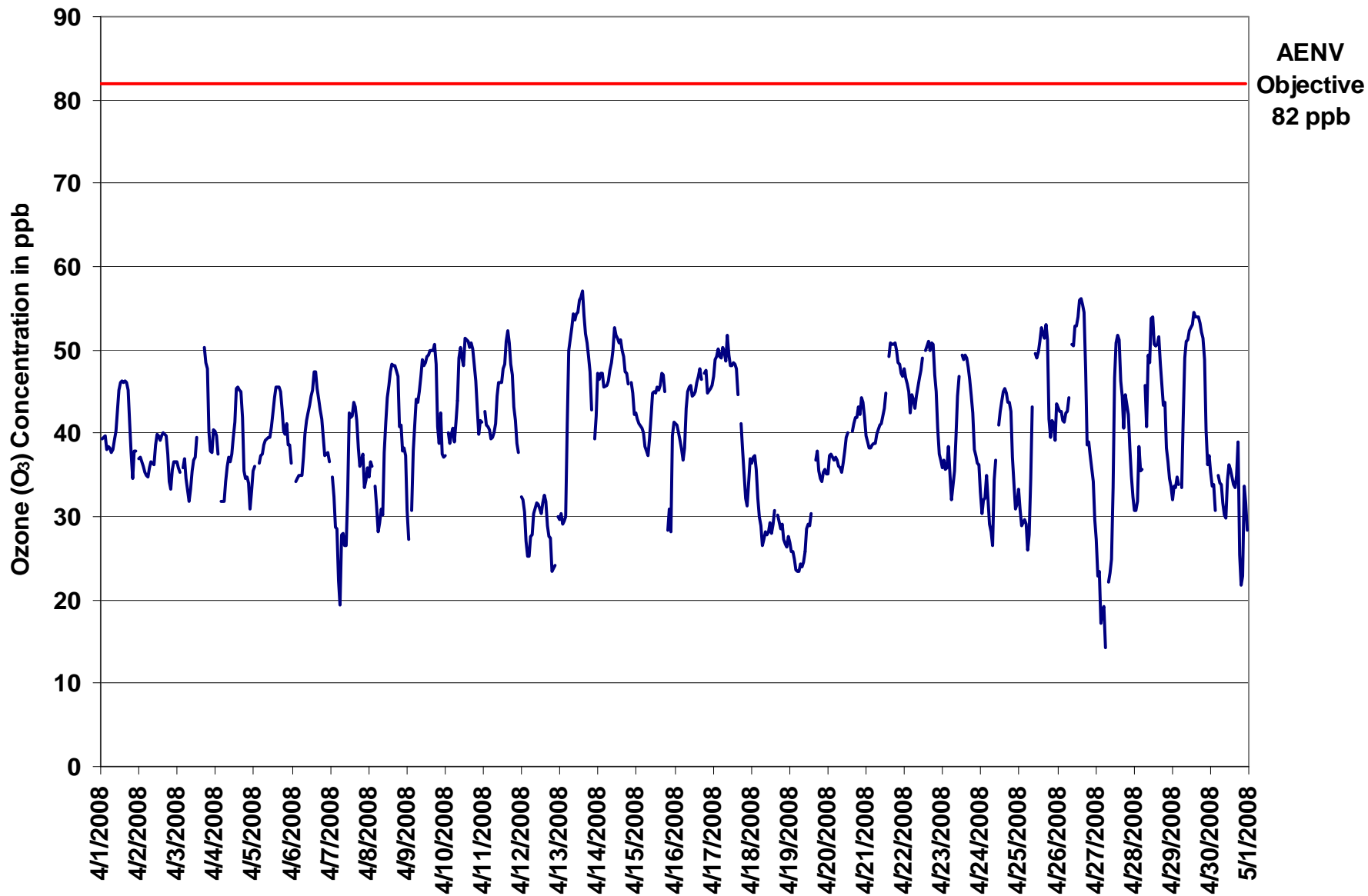


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

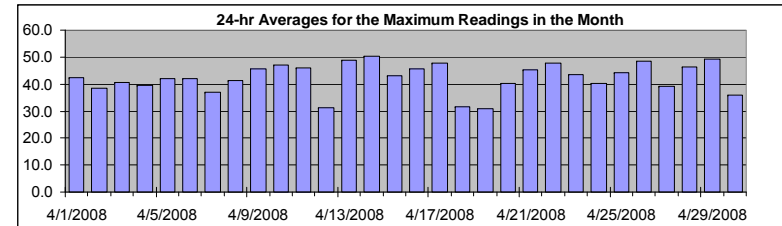
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	59.3	ppb	13-Apr	14:00 15:00
Maximum 24-hr Value:	50.3	ppb	14-Apr	



AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.3	54.1	48.4	42.0	37.2	29.5	24.9	42.4 ppb	42.0 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	40	41	41	40	39	39	39	39	40	44	47	47	47	47	47	47	45	40	37	40	39	A	42.3	47.1	
2-Apr-08	38	38	37	37	36	36	36	37	37	38	40	41	41	40	41	41	41	40	37	36	37	37	37	38.3	41.4	
3-Apr-08	37	37	36	A	39	39	36	35	35	37	38	39	41	C	C	C	A	52	51	52	45	41	41	41	40.7	52.4
4-Apr-08	41	41	40	A	35	35	35	39	38	38	40	41	44	47	47	47	47	44	38	37	37	36	33	34	39.7	47.0
5-Apr-08	37	38	A	37	39	39	40	40	41	41	41	42	44	46	47	47	47	45	42	43	42	41	41	41	41.9	46.9
6-Apr-08	38	A	36	36	37	37	36	39	42	42	44	45	46	46	49	48	47	46	45	44	42	40	44	39	42.1	48.7
7-Apr-08	A	39	35	33	30	28	25	32	31	28	28	43	44	44	46	46	46	45	41	38	42	37	36	37	37.1	46.2
8-Apr-08	36	38	38	A	36	35	33	32	33	33	40	44	46	48	49	50	50	51	50	44	43	42	40	41	41.4	50.8
9-Apr-08	33	34	A	37	40	43	45	46	47	48	50	50	50	51	51	52	53	53	52	48	44	46	40	40	45.8	53.1
10-Apr-08	41	A	41	40	41	43	42	43	49	51	52	51	50	53	53	53	53	52	51	50	47	42	43	43	47.1	53.2
11-Apr-08	A	44	43	42	42	41	41	41	44	47	48	49	50	53	53	55	53	50	50	45	45	40	39	A	46.1	55.4
12-Apr-08	34	33	32	31	30	29	30	30	32	32	33	32	31	34	34	34	33	31	30	26	30	28	A	31	31.4	34.3
13-Apr-08	32	32	32	32	31	49	52	56	56	55	56	57	58	59	59	58	53	54	52	49	46	A	44	49	48.7	59.3
14-Apr-08	48	48	49	49	49	49	48	50	51	52	55	54	53	53	56	52	51	49	50	48	A	48	49	44	50.3	56.4
15-Apr-08	44	44	43	42	42	40	39	39	41	45	47	47	46	48	48	48	49	49	49	A	31	38	38	42	43.3	48.8
16-Apr-08	43	42	41	41	40	38	42	45	47	47	48	46	47	47	48	48	50	49	A	49	50	48	49	49	45.8	50.2
17-Apr-08	50	50	51	52	51	51	52	52	52	54	53	49	50	49	49	49	48	A	44	42	35	35	36	39	47.7	54.3
18-Apr-08	38	39	39	38	34	31	30	28	28	29	29	30	31	29	31	32	A	32	30	31	29	28	27	29	31.5	38.6
19-Apr-08	28	27	27	26	25	25	25	26	25	26	27	31	31	31	33	A	38	39	37	36	36	36	37	36	30.7	39.4
20-Apr-08	36	39	39	38	38	38	38	37	37	37	38	39	40	41	A	42	43	43	43	44	45	45	45	43	40.3	45.1
21-Apr-08	41	40	39	39	39	39	40	41	42	42	43	44	47	A	51	52	52	51	52	51	49	49	48	49	45.2	51.8
22-Apr-08	49	47	47	47	45	45	46	45	47	48	49	51	A	51	51	52	52	52	52	51	49	47	39	40	47.9	52.3
23-Apr-08	38	39	38	38	41	39	38	41	43	46	48	A	50	50	50	50	49	48	47	44	41	39	40	42	43.4	50.1
24-Apr-08	39	34	36	38	38	35	34	32	36	38	A	42	44	45	46	47	46	45	45	44	43	41	37	36	40.1	46.8
25-Apr-08	36	35	31	34	31	29	34	42	46	A	50	50	52	53	54	55	53	56	54	47	45	44	44	44	44.3	55.7
26-Apr-08	44	44	44	43	43	44	47	46	A	53	54	55	55	56	58	58	57	57	53	44	45	41	39	38	48.6	58.2
27-Apr-08	42	40	39	26	23	24	20	A	25	26	30	38	53	54	54	53	52	47	44	47	45	40	39	36	39.0	53.9
28-Apr-08	33	33	37	41	41	41	A	48	54	53	53	56	56	53	53	52	54	52	47	46	43	41	39	38	46.2	56.3
29-Apr-08	38	37	42	42	39	A	40	48	52	53	53	53	54	55	57	56	56	55	56	55	53	50	44	45	49.2	57.4
30-Apr-08	43	49	37	34	A	37	35	35	33	33	33	35	37	37	36	36	39	41	38	23	32	36	33	31	36.0	49.0
Hourly Avg	39.2	39.3	38.9	38.3	37.8	37.8	37.9	40.1	40.7	41.8	43.5	44.9	46.2	47.1	48.3	48.6	48.6	47.5	45.8	43.3	41.6	40.6	40.0	39.8		
Hourly Max	50.0	50.5	51.0	52.3	51.0	51.2	52.5	55.8	56.3	55.3	55.8	56.8	57.7	58.7	59.3	58.5	57.3	56.9	55.7	55.4	52.5	49.7	49.0	49.1		

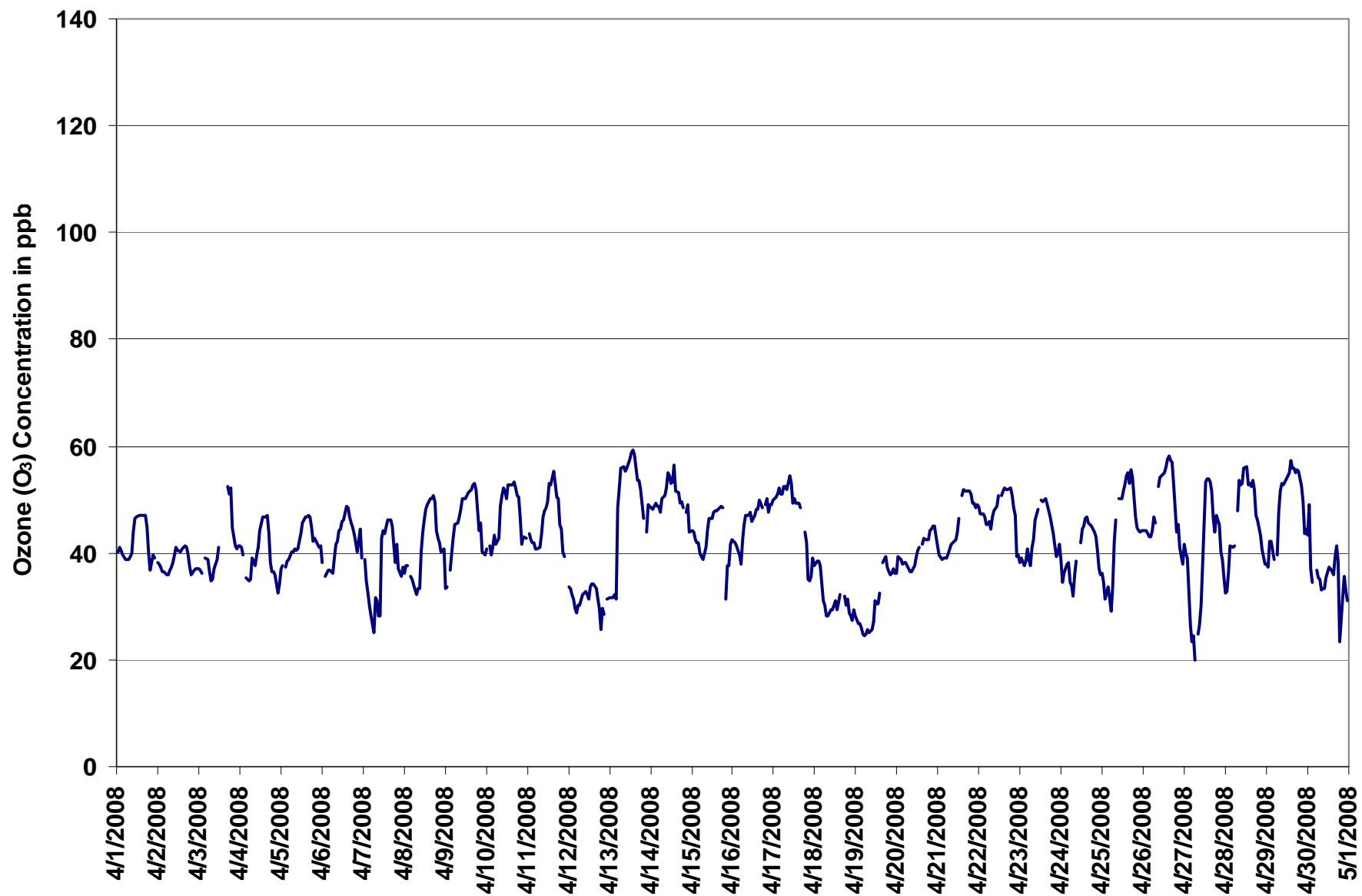
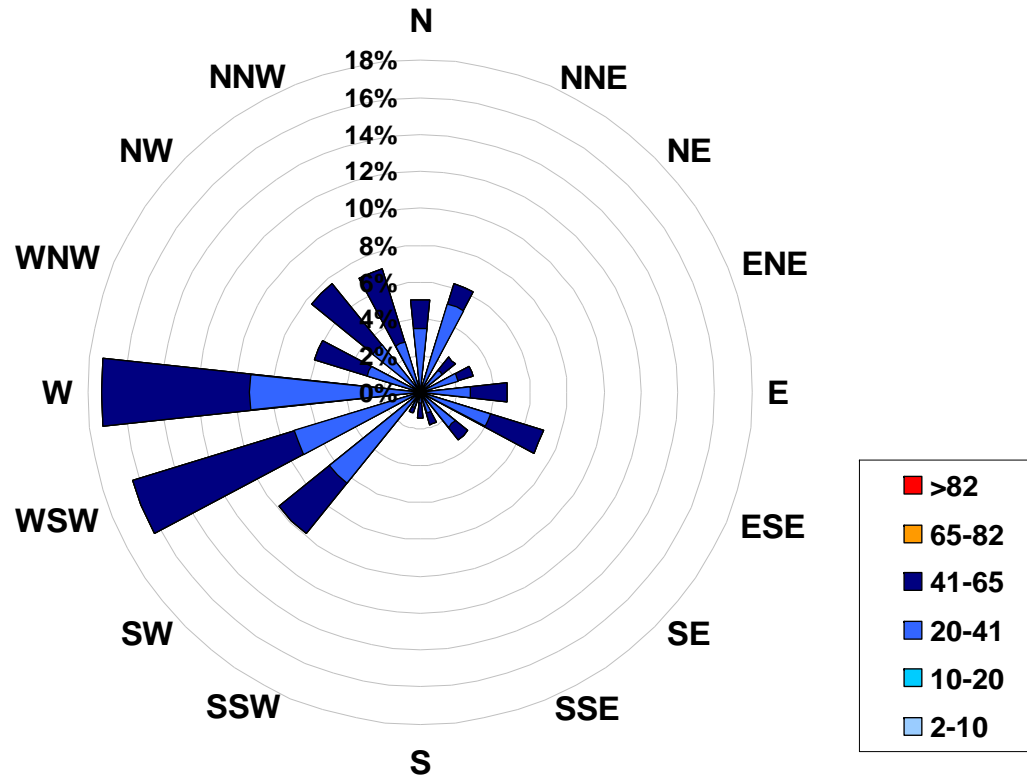


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for April 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		0
10	to 20		5
20	to 41		373
41	to 65		307
65	to 82		0
	> 82		0
Total Non-Zero Values			685

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

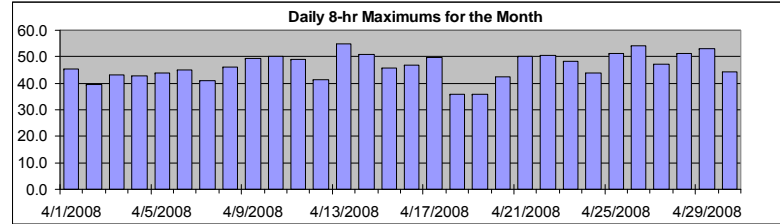
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	55.0 ppb 13-Apr 15:00 16:00



Percentile	99	95	75	50	25	5	1
	53.6	50.2	45.2	40.1	35.5	27.9	24.2

Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		23:00 0:00	
1-Apr-08	40	40	39	39	39	39	39	39	39	39	39	39	39	40	41	42	43	44	45	45	44	43	42	41	40	45.3	
2-Apr-08	39	38	37	37	37	36	36	36	36	36	36	36	37	37	38	38	39	39	40	39	39	38	38	37	37	39.6	
3-Apr-08	36	36	35	36	36	36	36	35	35	35	35	35	35	36	36	N	N	N	N	N	N	N	N	43	43.3		
4-Apr-08	43	42	40	39	38	37	37	36	35	35	35	36	37	38	40	41	42	43	44	44	44	44	44	43	42	41	42.9
5-Apr-08	35	34	34	34	35	35	36	37	38	38	38	39	40	40	41	42	43	44	44	44	44	44	44	43	42	41	44.0
6-Apr-08	40	40	38	38	37	36	35	35	36	36	38	39	40	41	43	44	45	45	45	45	45	44	43	42	41	45.0	
7-Apr-08	40	39	37	35	34	32	29	28	28	27	26	26	28	31	33	35	37	39	41	41	41	39	39	38	41.1		
8-Apr-08	36	36	36	36	35	35	34	33	32	31	32	33	34	36	38	41	43	45	46	46	46	45	44	42	46.2		
9-Apr-08	40	38	36	35	34	35	36	36	39	41	42	44	46	47	47	48	49	49	49	48	47	46	45	43	49.3		
10-Apr-08	42	40	39	39	39	39	39	40	40	42	43	44	45	47	48	49	50	50	50	50	49	47	46	45	50.1		
11-Apr-08	44	43	42	41	41	41	41	41	41	41	41	42	43	44	46	47	48	49	49	49	48	47	45	44	49.0		
12-Apr-08	41	39	37	34	32	30	29	28	28	28	28	29	29	30	31	31	31	31	30	29	28	27	27	26	41.2		
13-Apr-08	27	27	27	28	29	31	34	37	40	43	46	49	52	54	55	55	55	54	54	53	51	50	48	46	55.0		
14-Apr-08	46	45	45	45	45	45	46	47	47	47	48	49	49	50	50	51	51	51	50	49	49	48	47	46	50.9		
15-Apr-08	45	44	43	43	42	41	41	40	40	40	40	41	41	42	43	44	45	46	46	46	46	43	41	39	38	45.8	
16-Apr-08	37	36	36	36	37	38	39	40	40	41	41	42	43	44	45	45	46	46	46	46	46	47	47	47	46	46.7	
17-Apr-08	46	47	47	47	48	48	49	49	49	50	50	50	49	49	49	49	48	48	47	45	43	40	38	37	49.8		
18-Apr-08	36	36	35	35	35	35	34	33	32	31	30	29	28	28	28	29	29	29	29	29	29	29	28	28	35.9		
19-Apr-08	28	27	27	26	26	26	25	25	24	24	24	25	25	26	27	27	29	31	32	33	34	35	36	36	35.7		
20-Apr-08	35	35	36	36	36	36	37	37	37	37	36	37	37	37	37	38	39	40	40	41	42	42	42	43	42.5		
21-Apr-08	42	42	42	41	40	40	39	39	39	39	40	40	41	41	43	44	46	47	49	50	50	50	50	49	50.1		
22-Apr-08	49	48	48	47	46	46	45	45	45	45	45	46	46	47	48	49	50	50	50	49	48	47	45	50.3			
23-Apr-08	43	41	39	38	37	37	36	36	36	37	39	39	40	42	45	47	48	48	48	47	46	44	43	41	48.3		
24-Apr-08	39	37	36	34	34	33	32	31	31	32	32	33	34	36	39	41	43	44	44	44	43	42	40	39	43.9		
25-Apr-08	37	35	34	32	31	30	30	30	31	31	34	37	40	44	47	50	51	51	51	50	49	48	46	45	51.3		
26-Apr-08	44	43	41	41	42	42	42	43	42	44	45	46	48	50	52	53	54	54	54	52	50	48	45	42	54.0		
27-Apr-08	39	35	32	29	26	24	22	20	20	20	20	22	26	31	36	38	41	44	46	47	46	45	43	40	47.0		
28-Apr-08	39	37	36	35	34	34	34	36	37	40	42	44	47	49	49	50	51	51	50	49	47	45	43	41	51.1		
29-Apr-08	39	37	36	35	34	34	34	35	37	40	42	45	47	48	51	52	53	53	53	53	53	51	49	47	53.2		
30-Apr-08	44	42	40	37	35	35	34	34	33	33	32	33	33	33	33	33	34	35	34	33	31	31	30	30	44.3		

Hourly Max 48.8 48.3 47.6 47.3 47.5 48.1 48.7 49.2 49.4 49.8 49.8 49.6 52.1 54.0 54.9 55.0 54.7 54.4 53.7 53.1 52.6 51.1 49.6 49.1

PASZA - Portable-Spirit River Relative Humidity Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

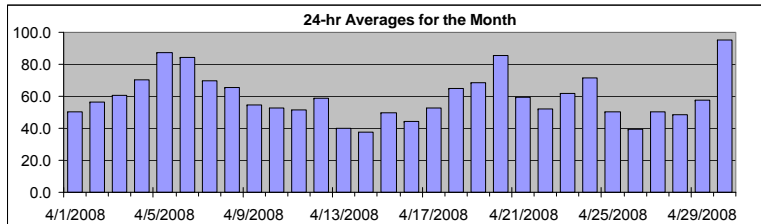
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	97.0	%	30-Apr	7:00 8:00
Maximum 24-hr Value:	95.1	%	30-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	96.2	92.2	71.4	58.8	45.9	29.8	25.8	59.7 %	58.8 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-08	46	45	45	47	47	49	52	54	53	51	48	43	43	44	44	45	47	51	59	61	61	56	58	59	50.4	61.1	
2-Apr-08	62	63	65	67	68	69	68	66	64	59	52	48	43	42	47	47	46	47	50	50	56	57	58	59	56.4	68.9	
3-Apr-08	61	63	65	68	70	85	90	86	78	64	58	56	49	48	48	46	47	46	46	43	57	55	59	61	60.4	89.8	
4-Apr-08	63	62	64	70	71	70	76	69	66	62	59	58	55	57	55	60	66	83	87	88	88	87	88	88	70.4	88.3	
5-Apr-08	89	89	90	89	90	91	91	91	90	90	88	86	82	79	79	79	79	80	84	88	91	90	92	93	87.1	93.0	
6-Apr-08	95	96	97	97	95	91	91	88	84	81	76	78	81	77	77	76	77	78	80	81	81	81	81	85	84.4	96.8	
7-Apr-08	87	88	89	93	94	95	95	92	87	85	81	67	47	45	46	44	43	45	48	48	58	65	63	61	69.5	95.5	
8-Apr-08	65	66	69	69	67	73	80	70	69	69	65	60	55	54	51	50	53	51	52	60	63	76	90	92	65.4	91.8	
9-Apr-08	94	93	94	86	77	72	66	65	60	53	51	46	42	36	31	29	30	27	32	39	38	41	55	58	54.8	94.5	
10-Apr-08	60	58	61	64	63	61	64	62	56	49	45	41	45	37	38	50	46	46	47	52	53	57	57	60	53.0	63.7	
11-Apr-08	63	62	64	62	60	61	58	54	50	46	43	41	38	39	39	39	40	42	44	52	52	59	61	66	51.4	66.2	
12-Apr-08	66	68	69	69	71	72	70	69	65	58	54	48	46	41	44	43	48	52	56	65	64	65	58	52	58.8	71.9	
13-Apr-08	49	45	51	53	61	61	56	47	40	38	35	34	30	26	23	26	28	27	29	34	39	43	44	45	40.2	61.1	
14-Apr-08	44	45	45	46	49	49	47	43	39	36	32	30	29	29	28	27	27	29	31	36	40	38	40	46	37.8	49.3	
15-Apr-08	47	48	53	56	60	63	62	58	51	46	47	46	43	44	39	37	39	40	43	52	63	61	55	44	49.9	63.4	
16-Apr-08	46	50	54	57	56	58	58	54	50	46	42	37	35	35	32	32	31	34	36	40	41	47	48	46	44.4	58.4	
17-Apr-08	46	45	44	44	48	51	52	59	64	37	37	48	59	39	52	58	64	61	58	58	63	64	59	58	52.9	64.4	
18-Apr-08	62	62	62	60	56	58	72	83	72	67	73	61	60	60	56	54	57	60	63	64	65	67	73	82	64.6	82.9	
19-Apr-08	75	71	70	71	73	73	75	70	70	66	66	62	63	63	64	67	66	72	64	57	63	67	73	76	68.2	76.1	
20-Apr-08	81	88	87	87	87	86	86	85	82	82	81	82	81	80	83	83	84	87	88	89	90	90	90	91	85.4	90.8	
21-Apr-08	91	90	91	90	89	88	89	88	86	75	59	57	49	45	40	37	39	35	30	30	30	31	34	34	59.4	91.0	
22-Apr-08	33	37	39	41	47	46	48	58	60	58	57	53	51	51	51	61	60	51	54	55	54	61	68	62	52.3	68.3	
23-Apr-08	60	62	65	67	77	79	80	74	66	58	51	53	49	47	48	48	54	58	62	66	68	66	65	64	62.0	80.2	
24-Apr-08	69	71	75	78	80	82	78	76	71	66	67	69	75	70	63	61	70	76	71	64	65	68	73	78	71.4	81.6	
25-Apr-08	77	77	80	79	80	82	75	67	58	50	43	37	31	28	26	27	28	28	30	37	39	41	44	46	50.5	81.6	
26-Apr-08	43	43	44	46	48	48	47	42	38	34	34	30	29	27	24	24	26	27	36	45	45	51	58	59	39.4	59.4	
27-Apr-08	51	49	57	59	64	65	68	68	66	65	57	51	32	24	25	27	30	36	40	40	52	55	60	66	50.3	68.1	
28-Apr-08	67	69	68	66	68	68	64	53	51	41	36	29	29	30	29	27	27	30	41	48	53	56	59	58	48.7	69.3	
29-Apr-08	55	55	59	63	68	73	73	68	61	56	50	45	44	41	37	35	35	35	48	61	66	82	86	91	57.9	90.9	
30-Apr-08	96	96	96	96	96	96	96	97	96	96	96	96	96	94	92	92	93	93	92	93	95	95	95	97	97	95.1	97.0
Hourly Avg	64.7	65.2	67.1	68.0	69.4	70.5	70.9	68.5	64.8	59.4	56.2	53.1	50.2	47.6	47.0	47.7	49.4	50.9	53.4	56.5	59.8	62.5	64.9	65.9			
Hourly Max	95.8	96.3	96.8	96.8	96.2	95.7	96.2	97.0	95.8	96.1	96.5	96.2	94.1	91.7	92.4	93.3	93.4	92.2	92.5	94.5	94.7	95.5	96.6	97.0			

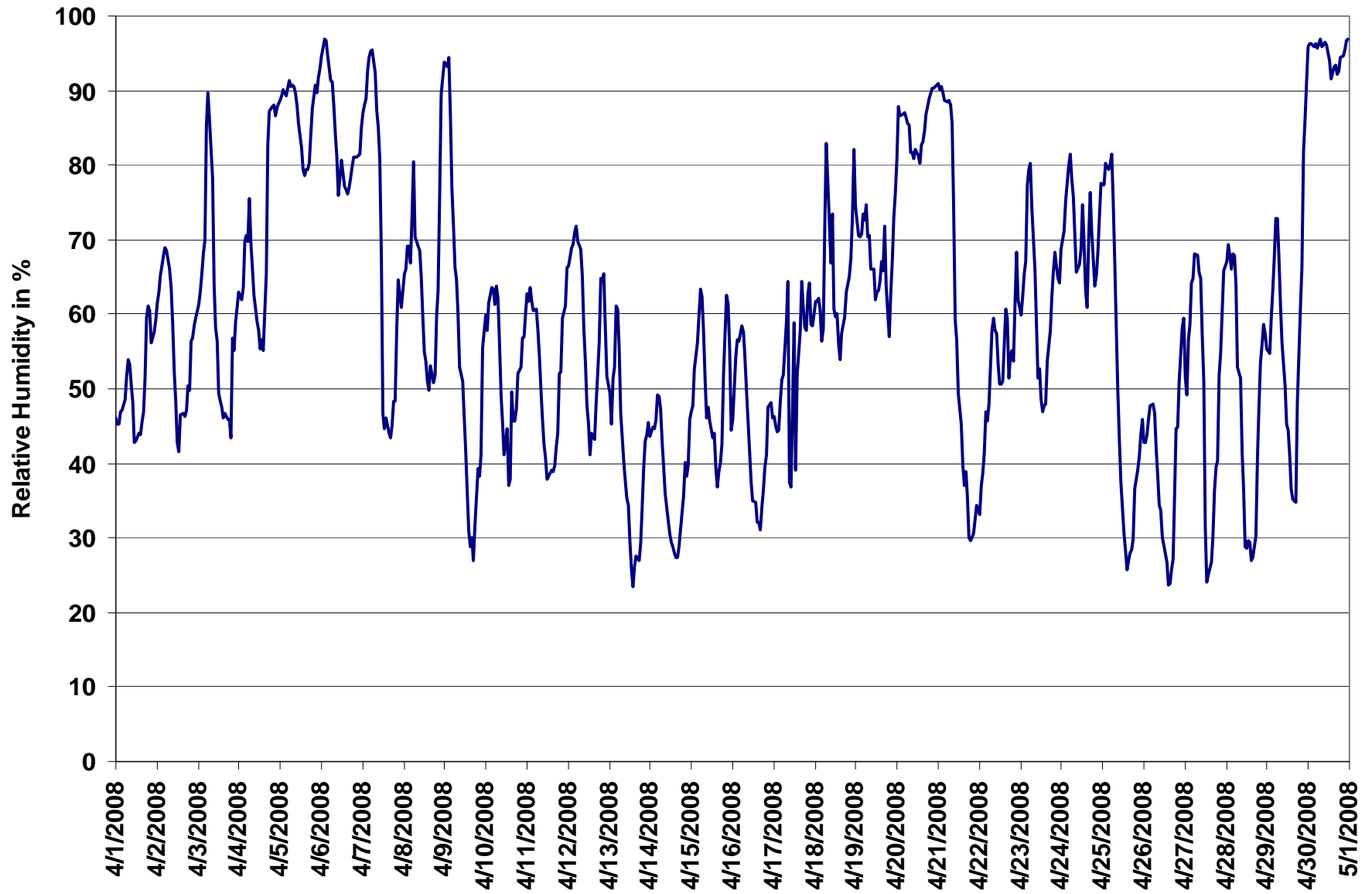


Figure 54. PASZA - Portable-Spirit River Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Temperature Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

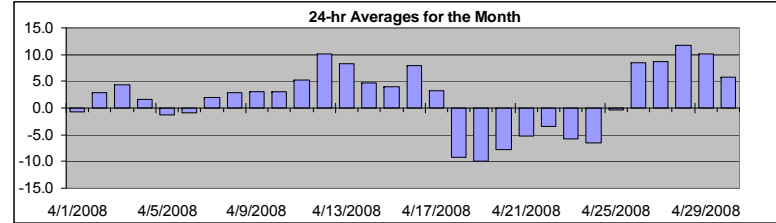
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	17.6	°C	28-Apr	16:00 17:00
Maximum 24-hr Value:	11.8	°C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.7	13.2	6.5	2.3	-2.8	-9.2	-12.6	1.9 °C	2.3 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Apr-08	0:00	-4	-4	-4	-4	-4	-4	-4	-3	-1	0	1	2	3	3	3	3	2	1	0	0	0	0	0	-0.7	3.3	
2-Apr-08	1:00	0	0	-1	-1	-1	-2	-2	-1	1	2	4	5	6	7	7	6	6	6	5	4	4	4	3	2.8	7.0	
3-Apr-08	2:00	3	3	3	3	3	2	1	1	2	3	5	5	7	6	7	7	7	6	6	4	4	3	3	4.3	7.4	
4-Apr-08	3:00	2	2	1	-1	-1	-1	0	1	3	3	4	5	6	6	5	5	2	1	1	0	-1	-2	-2	1.6	6.4	
5-Apr-08	4:00	-2	-2	-2	-2	-3	-3	-3	-3	-3	-2	-2	-1	-1	0	1	1	1	1	0	-1	-1	-1	-2	-1.3	0.9	
6-Apr-08	5:00	-2	-2	-3	-3	-3	-3	-3	-3	-3	-2	-1	0	0	1	1	2	2	1	1	0	0	0	-1	-0.9	1.6	
7-Apr-08	6:00	-1	-1	-1	-3	-4	-5	-5	-3	-2	-1	1	5	8	8	7	7	7	6	5	4	3	2	2	2.0	8.1	
8-Apr-08	7:00	1	1	0	0	1	-1	-3	0	1	1	4	5	6	7	7	6	7	6	4	4	3	2	1	2.9	6.8	
9-Apr-08	8:00	1	0	0	0	1	1	1	1	2	3	4	5	5	6	6	7	6	6	5	4	3	2	0	3.0	6.5	
10-Apr-08	9:00	-1	0	-1	-1	-1	0	-1	0	3	4	5	6	6	7	8	6	6	6	6	5	4	2	3	3	3.1	7.6
11-Apr-08	10:00	2	2	2	2	2	1	2	3	5	6	7	8	8	8	9	9	9	9	9	7	6	5	4	4	5.3	9.1
12-Apr-08	11:00	5	5	5	5	5	5	6	7	8	10	12	14	15	17	15	15	15	14	12	11	10	9	10	11	10.1	16.7
13-Apr-08	12:00	11	12	10	10	9	7	5	7	7	8	8	8	9	10	11	12	11	10	9	7	5	3	3	3	8.3	12.0
14-Apr-08	13:00	3	3	3	2	2	2	2	3	4	5	6	7	7	8	8	9	8	8	6	5	4	4	4	3	4.7	8.6
15-Apr-08	14:00	3	3	2	2	1	0	1	2	3	4	5	6	7	7	7	7	7	7	6	3	3	3	4	4.0	7.5	
16-Apr-08	15:00	3	3	2	2	2	1	2	5	7	9	10	12	13	12	13	13	13	13	12	11	10	8	8	8	8.0	13.5
17-Apr-08	16:00	8	8	7	7	6	5	5	5	3	4	4	3	5	3	3	2	2	2	1	-1	-2	-2	-4	3.2	8.1	
18-Apr-08	17:00	-6	-6	-7	-8	-9	-9	-10	-11	-11	-11	-10	-10	-10	-9	-9	-8	-8	-8	-9	-9	-10	-10	-12	-9.2	-5.6	
19-Apr-08	18:00	-12	-13	-13	-13	-13	-13	-13	-13	-12	-11	-10	-10	-9	-8	-7	-7	-7	-6	-7	-7	-7	-8	-8	-9.9	-6.5	
20-Apr-08	19:00	-8	-9	-9	-9	-9	-10	-10	-9	-9	-9	-9	-8	-8	-8	-7	-7	-6	-6	-6	-6	-6	-6	-7	-7.8	-5.8	
21-Apr-08	20:00	-7	-7	-7	-8	-8	-8	-8	-8	-8	-7	-7	-6	-5	-4	-3	-2	-2	-2	-2	-2	-2	-3	-3	-5.3	-1.9	
22-Apr-08	21:00	-4	-4	-6	-7	-9	-8	-8	-6	-5	-4	-3	-2	-1	1	0	1	1	0	0	-2	-3	-6	-6	-3.5	0.8	
23-Apr-08	22:00	-6	-7	-8	-8	-7	-8	-8	-7	-6	-5	-4	-3	-3	-3	-4	-4	-4	-5	-6	-7	-8	-7	-8	-5.8	-2.8	
24-Apr-08	23:00	-8	-9	-10	-9	-9	-10	-10	-10	-8	-6	-5	-5	-5	-4	-3	-4	-4	-5	-5	-5	-5	-6	-7	-7	-6.6	-3.1
25-Apr-08	0:00	-7	-6	-7	-7	-8	-9	-8	-6	-3	-2	-1	1	2	3	4	6	7	7	7	6	4	3	2	2	-0.4	7.4
26-Apr-08	1:00	3	3	3	2	2	2	3	6	8	9	10	12	13	14	15	16	15	16	14	12	10	8	6	4	8.5	15.7
27-Apr-08	2:00	4	3	2	1	1	1	1	2	4	6	10	13	15	16	16	17	16	16	15	14	11	9	7	6	8.7	16.8
28-Apr-08	3:00	6	5	5	6	5	5	7	11	12	14	16	17	17	17	17	18	18	17	16	14	12	11	10	9	11.8	17.6
29-Apr-08	4:00	9	9	8	8	7	6	7	8	9	10	11	12	12	13	13	14	14	14	13	11	10	9	8	7	10.2	14.4
30-Apr-08	5:00	6	6	6	6	6	5	5	5	5	6	6	6	6	6	7	7	7	6	5	5	5	5	5	5	5.7	7.4
Hourly Avg		0.2	-0.1	-0.7	-0.9	-1.2	-1.6	-1.6	-0.6	0.4	1.4	2.6	3.5	4.3	5.0	5.4	5.4	5.4	5.2	4.5	3.5	2.4	1.6	1.0	0.6		
Hourly Max		11.4	12.0	10.2	10.0	9.5	6.7	6.6	10.7	12.5	14.2	15.6	16.7	16.7	16.9	17.2	17.6	17.6	17.3	15.6	14.0	11.7	10.8	10.5	11.3		

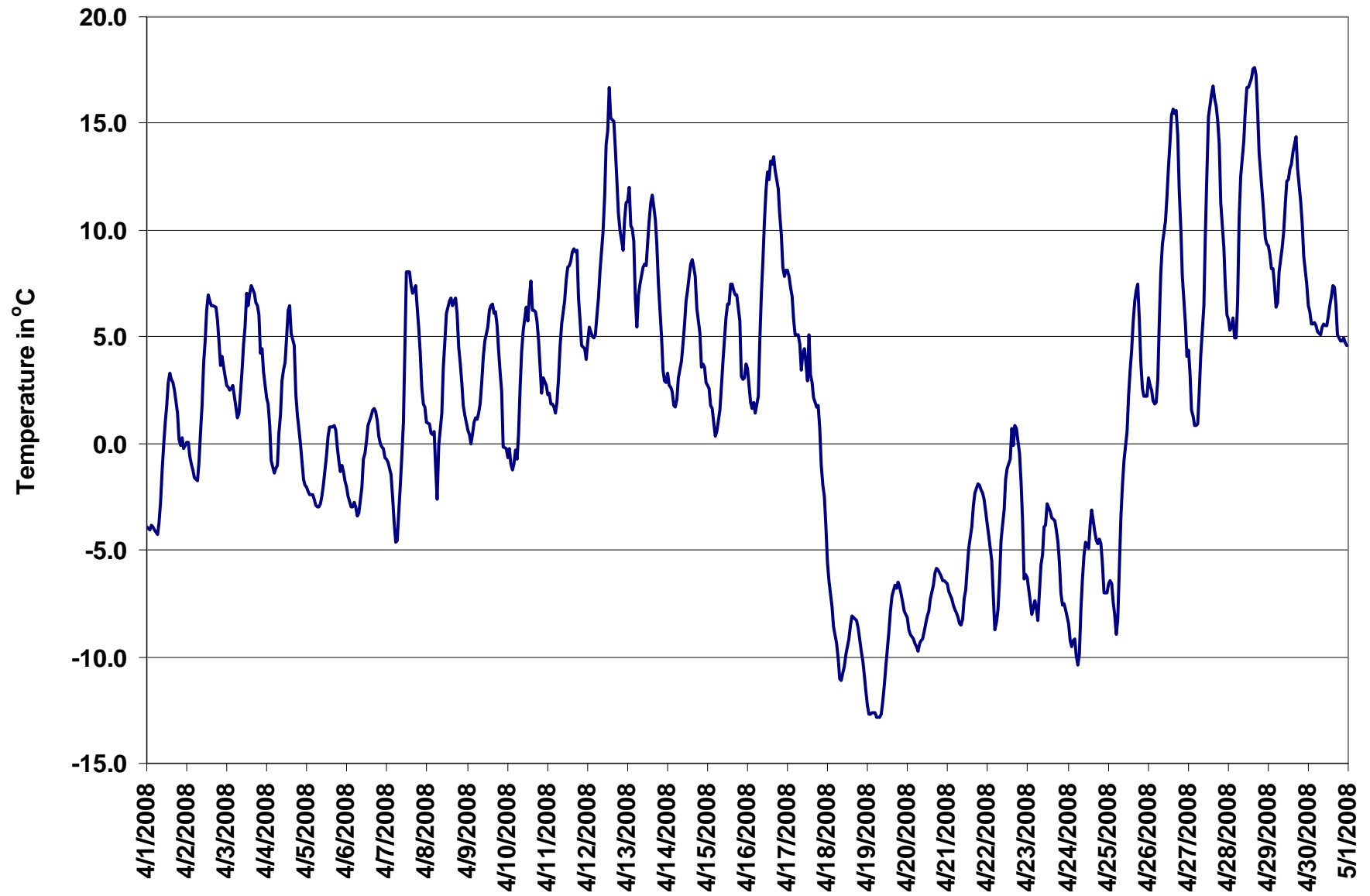


Figure 55. PASZA - Portable-Spirit River Temperature 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Scalar Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

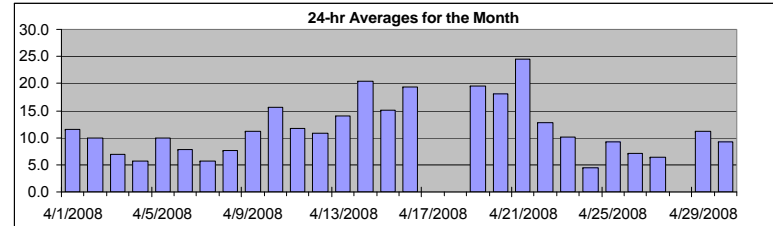
Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	39.9	km/hr	17-Apr	6:00 7:00
Maximum 24-hr Value:	24.5	km/hr	21-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%				
Percentile	99	95	75	50	25	5	1	AverageS
	38.0	28.9	16.4	10.6	6.1	3.0	1.7	12.5 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	16	17	16	10	11	11	7	5	5	6	13	18	16	13	14	16	7	6	5	12	14	12	11	15	11.5	18.4
2-Apr-08	13	12	12	9	7	7	8	11	7	8	19	15	9	7	5	6	6	5	4	8	13	13	17	17	9.9	18.9
3-Apr-08	15	10	6	5	8	6	12	13	7	6	4	4	4	6	5	9	3	6	3	4	7	5	9	10	6.9	15.3
4-Apr-08	5	7	4	5	5	4	2	4	6	4	4	3	3	4	3	7	10	14	12	10	6	6	6	6	5.8	14.1
5-Apr-08	11	10	8	8	9	13	12	13	12	12	11	11	11	10	12	10	13	12	10	6	5	6	6	5	9.9	13.5
6-Apr-08	4	5	5	5	5	5	5	7	11	11	6	11	12	12	12	11	10	11	8	7	7	7	6	4	7.8	12.1
7-Apr-08	5	5	4	3	2	2	2	1	2	2	3	5	7	6	9	6	8	8	9	9	6	7	11	11	5.6	11.5
8-Apr-08	11	13	12	8	9	4	4	1	4	6	9	13	9	10	10	8	8	5	10	5	7	5	3	7.6	13.1	
9-Apr-08	3	4	3	6	9	10	10	8	11	11	7	8	22	26	24	20	6	4	4	7	16	14	19	15	11.2	26.4
10-Apr-08	15	16	11	10	10	11	11	11	11	17	23	28	15	7	14	29	32	34	12	7	8	11	18	17	15.6	33.6
11-Apr-08	14	17	10	9	9	8	10	10	8	11	20	29	17	11	10	8	10	8	7	10	11	11	9	11	11.7	28.8
12-Apr-08	8	6	5	4	4	3	4	8	13	26	17	18	15	11	12	7	6	11	15	13	11	14	15	16	10.9	25.6
13-Apr-08	20	15	13	15	11	12	10	12	12	12	15	21	27	26	30	15	10	11	9	7	8	7	8	10	14.0	30.2
14-Apr-08	15	16	18	17	14	16	19	26	28	24	30	15	16	16	18	16	19	19	23	26	23	29	26	23	20.5	29.7
15-Apr-08	20	21	21	19	19	17	17	15	16	13	18	22	16	12	11	12	18	13	5	8	10	9	7	22	15.0	22.3
16-Apr-08	21	20	19	16	15	15	14	16	15	11	11	13	13	11	13	15	19	22	31	31	36	32	29	29	19.4	35.6
17-Apr-08	33	38	39	38	35	37	40	33	24	37	39	N	N	N	N	N	N	N	19	16	7	13	24	30	N	39.9
18-Apr-08	33	35	38	N	N	N	24	19	26	34	N	N	N	N	26	28	30	24	25	24	25	20	20	22	N	38.4
19-Apr-08	20	12	14	15	15	17	13	20	15	13	16	19	27	23	22	21	27	23	16	28	24	29	22	17	19.5	29.0
20-Apr-08	16	13	11	25	13	27	21	20	21	24	23	24	22	26	25	21	17	16	17	11	6	10	13	14	18.2	26.6
21-Apr-08	10	16	11	13	17	21	21	27	21	18	16	17	17	22	29	30	29	37	36	36	35	36	39	38	24.5	38.6
22-Apr-08	27	24	24	14	8	11	9	6	10	11	16	15	17	20	10	14	9	15	17	6	3	8	9	5	12.9	27.3
23-Apr-08	6	6	6	6	5	2	3	2	2	3	15	20	14	5	23	15	21	24	26	10	9	9	6	3	10.1	25.9
24-Apr-08	4	5	3	2	1	2	4	3	4	5	4	3	12	8	4	4	9	N	N	4	1	4	6	6	4.4	11.9
25-Apr-08	5	2	2	3	5	6	5	2	5	6	4	17	26	25	26	23	9	7	5	5	7	11	9	9	9.3	26.2
26-Apr-08	10	8	8	7	8	6	11	8	7	9	5	7	7	6	5	9	8	8	8	5	6	4	2	4	7.0	11.5
27-Apr-08	7	4	3	3	5	3	2	3	2	4	2	8	7	7	7	12	11	10	6	13	7	9	12	8	6.4	12.7
28-Apr-08	8	11	7	5	8	7	11	8	5	N	N	N	N	21	24	16	24	N	N	N	N	9	4	3	N	24.3
29-Apr-08	5	5	8	4	5	5	4	2	3	5	9	13	15	19	10	27	24	16	25	20	15	14	10	5	11.2	26.7
30-Apr-08	19	11	6	4	5	15	16	9	10	14	22	12	10	N	4	3	3	9	7	2	5	10	9	10	9.3	21.6
1-hr Average	13.3	12.7	11.5	10.0	9.5	10.4	11.1	10.8	10.7	12.3	13.6	14.4	14.3	13.7	14.4	14.4	14.0	14.1	13.2	12.2	11.6	12.5	12.9	12.9		
Hourly Max	33.4	38.0	39.4	38.2	35.5	37.0	39.9	33.4	27.8	36.6	39.4	28.8	26.8	26.4	30.2	29.7	32.0	36.9	35.9	36.3	35.6	35.9	38.6	38.0		

PASZA - Portable-Spirit River Vector Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

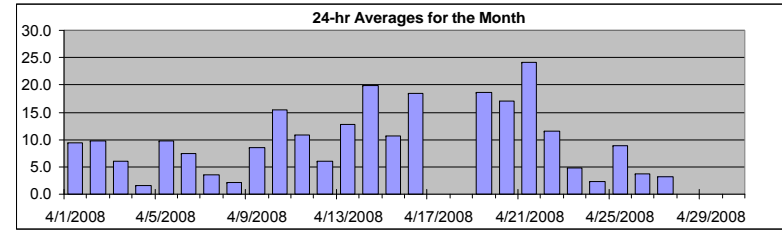
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	39.8	km/hr	17-Apr	6:00 7:00
Maximum 24-hr Value:	24.1	km/hr	21-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%				
Percentile	99	95	75	50	25	5	1	AverageV
	37.8	28.7	16.1	10.3	5.7	2.2	1.2	21.9 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Apr-08	16	17	16	10	11	11	7	5	5	6	13	18	16	13	13	16	7	6	5	10	14	11	10	14	9.3	18.2
2-Apr-08	13	12	12	9	7	7	8	11	7	7	19	15	9	7	5	6	6	5	4	8	12	13	17	17	9.7	18.8
3-Apr-08	15	10	6	5	8	5	12	13	7	5	4	4	4	5	5	9	3	6	3	4	7	4	9	10	6.0	15.3
4-Apr-08	5	6	2	5	4	3	2	4	6	4	3	2	2	3	3	7	9	14	11	10	6	5	5	6	1.6	14.1
5-Apr-08	11	10	8	8	9	13	12	13	12	11	11	11	10	12	10	13	12	10	6	4	6	6	4	9.7	13.4	
6-Apr-08	4	5	5	5	5	5	5	7	11	11	6	11	12	12	11	11	10	10	8	7	7	7	5	4	7.4	11.9
7-Apr-08	5	5	3	3	2	1	2	1	1	2	2	0	7	6	8	5	8	8	9	9	5	7	11	11	3.5	11.5
8-Apr-08	11	13	12	8	9	1	4	1	3	6	9	13	9	10	10	8	8	5	5	10	4	7	5	3	2.1	13.0
9-Apr-08	3	3	3	6	9	10	10	8	11	11	7	8	21	25	23	17	6	3	3	7	16	12	19	15	8.4	25.4
10-Apr-08	15	16	11	10	10	11	11	11	10	17	22	27	15	7	14	28	31	33	11	6	8	11	18	17	15.4	32.7
11-Apr-08	14	17	10	9	9	8	10	10	8	11	19	27	16	11	10	8	10	8	7	10	11	11	9	11	10.8	27.4
12-Apr-08	8	6	5	3	3	1	4	8	13	25	17	18	15	11	12	7	6	10	15	13	11	13	14	16	6.0	25.4
13-Apr-08	20	15	12	15	11	12	10	12	11	12	15	21	26	26	30	14	10	11	9	7	8	7	8	10	12.9	30.0
14-Apr-08	15	16	18	17	14	16	19	26	28	24	29	15	15	15	18	15	19	18	23	26	23	29	26	23	19.9	29.3
15-Apr-08	19	21	21	19	18	17	17	15	16	12	17	22	16	12	10	12	17	13	5	7	10	9	6	22	10.7	21.8
16-Apr-08	21	20	19	16	15	15	14	16	15	10	11	12	12	10	13	15	19	22	30	31	35	32	29	29	18.5	35.4
17-Apr-08	33	38	39	38	35	36	40	32	23	36	39	N	N	N	N	N	N	N	18	15	7	13	24	30	N	39.8
18-Apr-08	33	35	38	N	N	N	24	19	25	33	N	N	N	N	26	28	30	23	24	24	24	20	20	22	N	38.2
19-Apr-08	20	12	14	15	15	17	13	20	15	13	15	18	26	22	21	20	26	22	16	27	24	29	21	16	18.7	28.8
20-Apr-08	16	12	10	25	13	26	21	20	20	24	23	24	22	26	25	21	17	15	17	11	5	10	13	14	17.1	26.3
21-Apr-08	10	16	11	13	17	21	20	26	21	18	16	17	17	22	29	29	28	36	36	36	34	36	38	38	24.1	38.5
22-Apr-08	27	24	24	13	8	11	9	6	10	11	15	15	17	20	10	13	8	15	17	6	1	8	9	5	11.5	27.0
23-Apr-08	6	6	6	6	4	2	3	2	1	3	10	17	7	4	23	14	20	23	26	10	9	9	5	3	4.8	25.8
24-Apr-08	4	5	2	1	1	2	4	3	4	4	3	11	8	3	3	9	N	N	4	1	4	6	5	5	2.3	11.3
25-Apr-08	5	2	2	3	5	6	5	2	4	5	4	14	25	23	25	22	8	7	5	5	7	11	9	9	8.8	25.4
26-Apr-08	10	8	8	7	8	6	11	8	7	8	5	6	7	6	4	1	7	7	8	5	6	4	2	4	3.7	11.4
27-Apr-08	7	3	2	2	5	2	2	2	2	4	2	8	4	7	5	11	11	10	6	13	7	9	12	8	3.2	12.6
28-Apr-08	8	11	6	5	8	7	11	8	3	N	N	N	N	19	22	15	23	N	N	N	N	8	4	2	N	22.9
29-Apr-08	4	5	7	2	4	4	4	2	5	8	10	14	17	10	26	22	16	25	20	15	11	2	1	N	26.0	
30-Apr-08	18	11	5	4	5	15	15	9	10	14	21	12	10	N	4	3	2	9	6	2	4	10	9	9	N	21.4
1-hr Vector	7.0	6.4	6.2	5.5	5.4	5.7	6.3	5.7	5.3	6.4	6.9	6.2	7.1	6.2	5.5	5.6	3.8	3.2	3.0	1.3	1.8	2.8	4.9	5.6		
Hourly Max	33.2	37.9	39.2	38.1	35.3	36.4	39.8	31.9	27.7	36.4	38.5	27.4	26.5	26.2	30.0	29.4	30.5	36.5	35.8	36.2	35.4	35.8	38.5	37.7		

PASZA - Portable-Spirit River Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%				
Percentile	99	95	75	50	25	5	1	Average
	357.4	339.2	277.8	245.9	119.0	19.5	2.7	288 deg

Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Apr-08	227	232	242	263	263	263	267	275	282	281	286	322	316	307	307	310	305	304	295	254	222	201	229	246	269	W
2-Apr-08	260	263	264	264	270	272	268	266	277	269	264	262	265	267	290	287	287	283	276	245	244	259	256	259	264	W
3-Apr-08	261	264	277	284	316	300	239	234	248	274	273	280	296	331	282	282	310	329	218	210	220	262	247	256	266	W
4-Apr-08	267	354	321	247	330	272	284	278	267	275	18	157	286	233	48	99	120	120	100	102	78	92	105	106	97	E
5-Apr-08	103	100	85	94	87	106	101	108	101	106	101	112	112	99	112	120	102	111	113	117	73	63	122	88	103	ESE
6-Apr-08	156	96	72	87	128	103	102	111	105	117	110	83	113	114	112	105	84	100	111	118	129	140	138	73	108	ESE
7-Apr-08	68	123	137	103	103	291	307	334	352	347	72	165	260	258	238	185	231	246	238	225	258	226	228	227	228	SW
8-Apr-08	232	235	231	256	258	11	101	109	64	81	82	81	82	85	84	66	85	145	72	110	129	268	285	282	113	ESE
9-Apr-08	247	147	114	246	260	259	256	260	260	261	272	272	261	256	296	313	308	342	45	149	170	222	235	250	258	WSW
10-Apr-08	251	242	228	235	236	240	234	231	241	250	252	258	240	246	236	223	237	246	228	227	218	228	241	238	240	WSW
11-Apr-08	244	246	258	260	260	262	260	262	262	267	281	282	299	256	250	261	244	247	251	231	213	218	218	224	256	WSW
12-Apr-08	245	265	246	206	316	271	241	245	240	254	256	258	258	259	235	230	94	96	122	130	140	111	174	199	219	SW
13-Apr-08	193	205	236	244	262	286	286	261	271	271	265	254	246	250	254	281	288	271	273	268	251	229	231	248	253	WSW
14-Apr-08	250	244	237	244	251	249	245	245	251	260	260	267	286	286	285	282	278	278	266	254	251	250	262	263	259	W
15-Apr-08	273	269	267	271	271	275	274	280	280	289	314	310	307	313	307	318	343	359	26	114	143	147	177	233	285	WNW
16-Apr-08	231	231	228	225	229	228	243	254	258	278	286	279	281	279	272	266	258	253	252	249	242	233	236	244	248	WSW
17-Apr-08	253	244	238	232	228	239	246	262	283	260	272	N	N	N	N	N	N	N	331	330	317	330	335	4	N	-
18-Apr-08	2	360	359	N	N	N	344	359	344	353	N	N	N	N	1	0	2	7	5	21	27	23	24	31	N	-
19-Apr-08	32	25	17	12	19	17	23	30	20	24	21	20	2	18	20	50	58	42	56	54	50	33	14	13	29	NNE
20-Apr-08	17	71	44	25	50	33	24	10	18	3	360	4	11	2	3	10	359	13	358	6	339	328	331	339	11	N
21-Apr-08	325	328	322	323	327	327	326	332	329	323	318	318	315	325	333	348	357	349	340	344	344	344	344	347	336	NNW
22-Apr-08	347	337	332	326	312	312	307	288	307	312	318	322	324	329	311	332	321	326	9	346	220	234	247	278	323	NW
23-Apr-08	280	286	280	308	8	340	260	286	343	136	126	177	174	70	43	50	83	116	120	116	136	141	163	284	113	ESE
24-Apr-08	318	316	322	269	312	321	312	304	15	69	38	353	357	350	2	61	32	N	N	86	110	201	221	247	351	N
25-Apr-08	246	272	285	272	260	246	218	221	241	245	190	235	268	253	255	270	270	247	236	240	226	218	229	255	250	WSW
26-Apr-08	262	263	265	266	262	269	255	259	259	262	282	261	265	258	233	285	64	84	105	118	126	118	329	228	256	WSW
27-Apr-08	254	248	225	214	130	326	303	348	71	67	65	88	161	225	140	150	162	232	256	246	261	251	249	260	217	SW
28-Apr-08	254	251	258	253	253	243	235	243	172	N	N	N	N	171	158	187	125	N	N	N	N	136	86	133	N	-
29-Apr-08	157	127	227	117	221	240	223	278	302	330	338	20	21	13	20	347	340	332	30	39	46	340	53	145	7	N
30-Apr-08	264	284	271	289	311	328	339	39	84	29	39	36	30	N	309	321	27	172	229	305	10	76	77	113	7	N
Hourly Avg	271	269	272	266	270	283	279	284	293	296	296	295	298	296	308	319	354	328	345	325	240	257	267	274		

PASZA - Portable-Spirit River Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%			
Percentile	99	95	75	50	25	5	1
	71.5	48.9	18.6	9.8	6.2	3.2	2.2

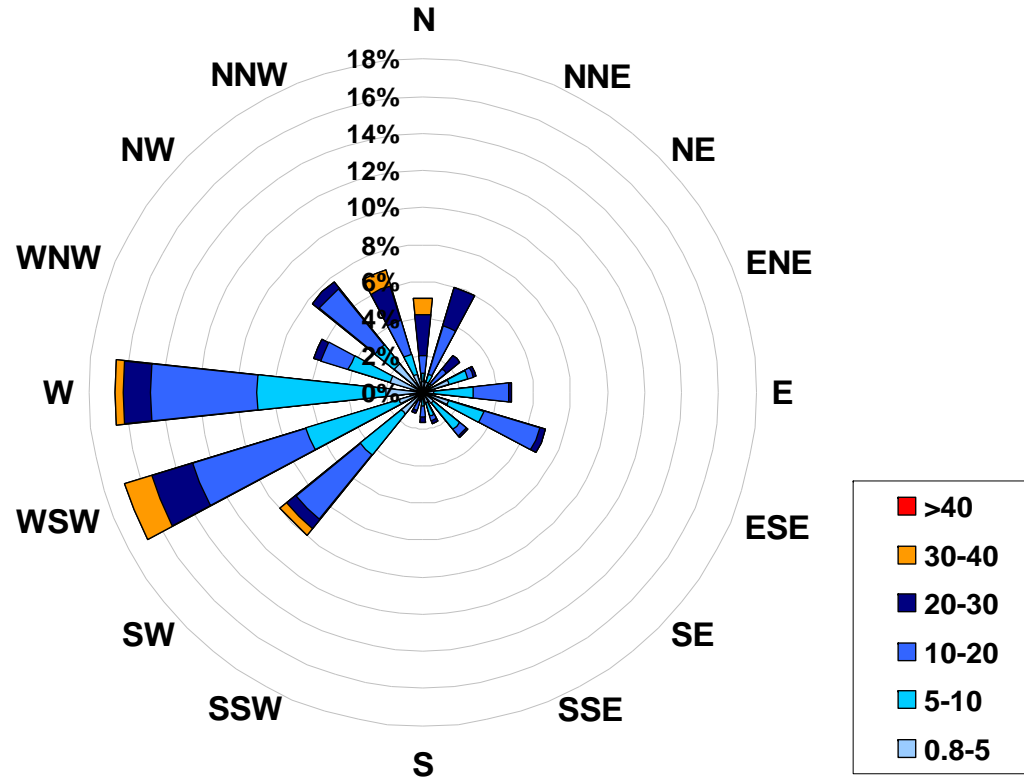
Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	2	4	7	4	3	3	7	8	9	9	12	8	10	12	12	8	11	9	14	28	4	14	21	8	28.3	
2-Apr-08	4	4	4	5	6	7	5	8	8	9	7	7	9	7	7	7	6	10	14	9	10	3	3	3	13.9	
3-Apr-08	3	5	8	7	19	18	10	3	9	7	8	9	22	43	27	10	14	19	46	6	8	33	6	8	45.6	
4-Apr-08	23	26	59	11	42	30	36	8	10	16	52	49	55	25	36	17	3	2	10	5	19	17	18	10	58.5	
5-Apr-08	11	9	9	7	14	6	8	6	6	7	8	10	9	15	12	6	7	6	10	11	28	16	13	27	28.3	
6-Apr-08	16	15	14	20	10	8	7	5	4	10	28	12	11	8	10	13	5	12	9	3	7	12	30	9	30.4	
7-Apr-08	10	19	24	24	54	59	20	67	72	49	28	80	19	8	50	26	23	12	10	8	35	13	3	3	80.0	
8-Apr-08	3	1	4	8	3	71	19	42	22	9	6	5	6	5	6	6	18	52	33	13	29	24	11	23	71.5	
9-Apr-08	22	39	31	22	3	4	5	6	5	6	12	18	25	20	21	28	23	57	33	29	11	33	3	6	56.8	
10-Apr-08	5	10	2	2	2	4	2	3	10	6	12	15	11	24	16	8	18	13	11	39	6	8	2	5	39.3	
11-Apr-08	7	5	4	6	5	5	4	4	7	11	14	20	16	23	14	21	13	11	9	11	8	6	7	3	23.1	
12-Apr-08	14	10	15	40	42	68	28	12	4	6	5	7	7	8	12	30	29	25	4	8	14	22	31	7	68.0	
13-Apr-08	6	7	15	7	9	6	6	8	8	8	9	6	7	7	6	13	10	11	12	9	16	15	14	4	15.6	
14-Apr-08	3	6	2	5	5	3	4	4	6	8	11	13	17	16	15	13	13	12	11	5	8	4	9	7	16.8	
15-Apr-08	8	6	6	8	7	7	8	10	11	13	9	12	13	12	15	16	17	13	27	21	5	10	31	3	30.5	
16-Apr-08	2	2	2	2	3	2	10	3	6	13	11	9	11	11	11	9	9	8	6	4	5	6	9	4	12.8	
17-Apr-08	3	5	6	3	5	11	5	18	17	6	12	N	N	N	N	N	N	N	8	6	5	7	3	5	18.4	
18-Apr-08	7	6	7	N	N	N	9	9	7	8	N	N	N	N	8	10	9	9	7	11	6	8	6	6	10.5	
19-Apr-08	4	6	6	9	10	6	9	10	10	12	24	22	18	16	22	14	16	16	13	10	9	7	8	10	24.2	
20-Apr-08	8	17	17	10	7	9	7	7	11	7	8	9	6	7	5	9	16	7	5	18	5	3	7	7	18.2	
21-Apr-08	6	3	4	4	3	3	3	3	4	5	5	5	4	6	7	7	6	9	5	4	4	5	4	7	9.2	
22-Apr-08	8	5	4	11	7	3	9	7	6	6	6	8	8	8	14	15	23	7	7	18	66	12	5	8	65.7	
23-Apr-08	5	6	7	26	22	24	24	24	73	33	53	42	79	49	14	20	11	13	4	5	7	7	48	10	78.9	
24-Apr-08	8	8	14	66	55	11	14	16	29	32	35	22	19	19	40	38	18	N	N	6	33	12	14	5	66.2	
25-Apr-08	8	28	24	15	14	15	26	15	45	21	31	48	20	24	15	20	19	12	14	14	5	3	6	7	48.1	
26-Apr-08	3	4	5	4	4	14	5	4	6	9	15	25	22	26	55	81	25	32	4	10	17	15	48	55	80.6	
27-Apr-08	18	53	44	53	14	49	26	39	26	16	43	10	59	9	43	24	11	19	10	9	10	8	2	8	58.5	
28-Apr-08	8	6	33	10	9	23	5	7	61	N	N	N	N	27	26	22	20	N	N	N	N	10	30	42	61.1	
29-Apr-08	19	24	50	70	54	18	17	21	30	20	39	54	19	20	21	15	22	15	12	6	10	41	87	86	87.4	
30-Apr-08	13	16	11	14	13	4	17	17	11	16	7	9	15	N	26	38	61	24	36	36	37	4	8	13	60.6	

Hourly Max	23	53	59	70	55	71	36	67	73	49	53	80	79	49	55	81	61	57	46	39	66	41	87	86
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	117
5	to	10	203
10	to	20	249
20	to	30	97
30	to	40	29
	>	40	0
Total Non-Zero Values			695

PASZA
Valleyview Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

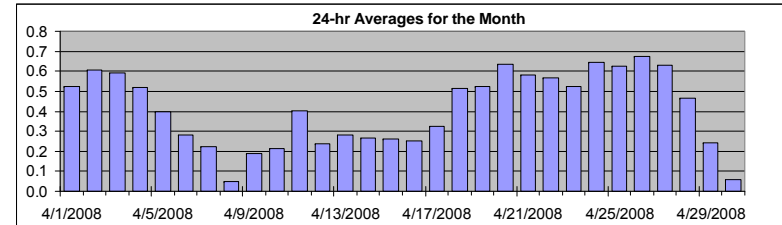
Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	1.5	ppb	16-Apr	21:00 22:00
Maximum 24-hr Average:	0.7	ppb	26-Apr	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.7	0.6	0.4	0.2	0.0	0.0	0.4 ppb	0.4 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-08	A	1	0	1	1	0	1	1	1	0	0	0	0	1	1	0	0	1	0	0	0	1	1	1	0.5	0.7
2-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0.6	0.9
3-Apr-08	A	0	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	1	1	1	0	0	1	0	0.6	1.2
4-Apr-08	A	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	0	0	0	0.5	0.7
5-Apr-08	A	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.5
6-Apr-08	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
7-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.2	0.9
8-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
9-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
11-Apr-08	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
12-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
13-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.6
14-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
15-Apr-08	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
16-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.3	1.5
17-Apr-08	A	0	0	0	0	0	0	1	1	1	C	C	C	A	0	0	0	0	0	0	0	0	0	1	0.3	0.7
18-Apr-08	A	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	0	0	0.5	0.7
19-Apr-08	A	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.5	0.7
20-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.8
21-Apr-08	A	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0.6	0.8
22-Apr-08	A	1	1	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	1	0	0.6	0.8
23-Apr-08	A	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0.5	0.7
24-Apr-08	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	0.8
25-Apr-08	A	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.9
26-Apr-08	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
27-Apr-08	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0.6	0.9
28-Apr-08	A	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0.5	0.6
29-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
30-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
Hourly Avg	N	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hourly Max	0.0	0.8	1.0	1.0	1.2	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	1.5	0.8	0.8	

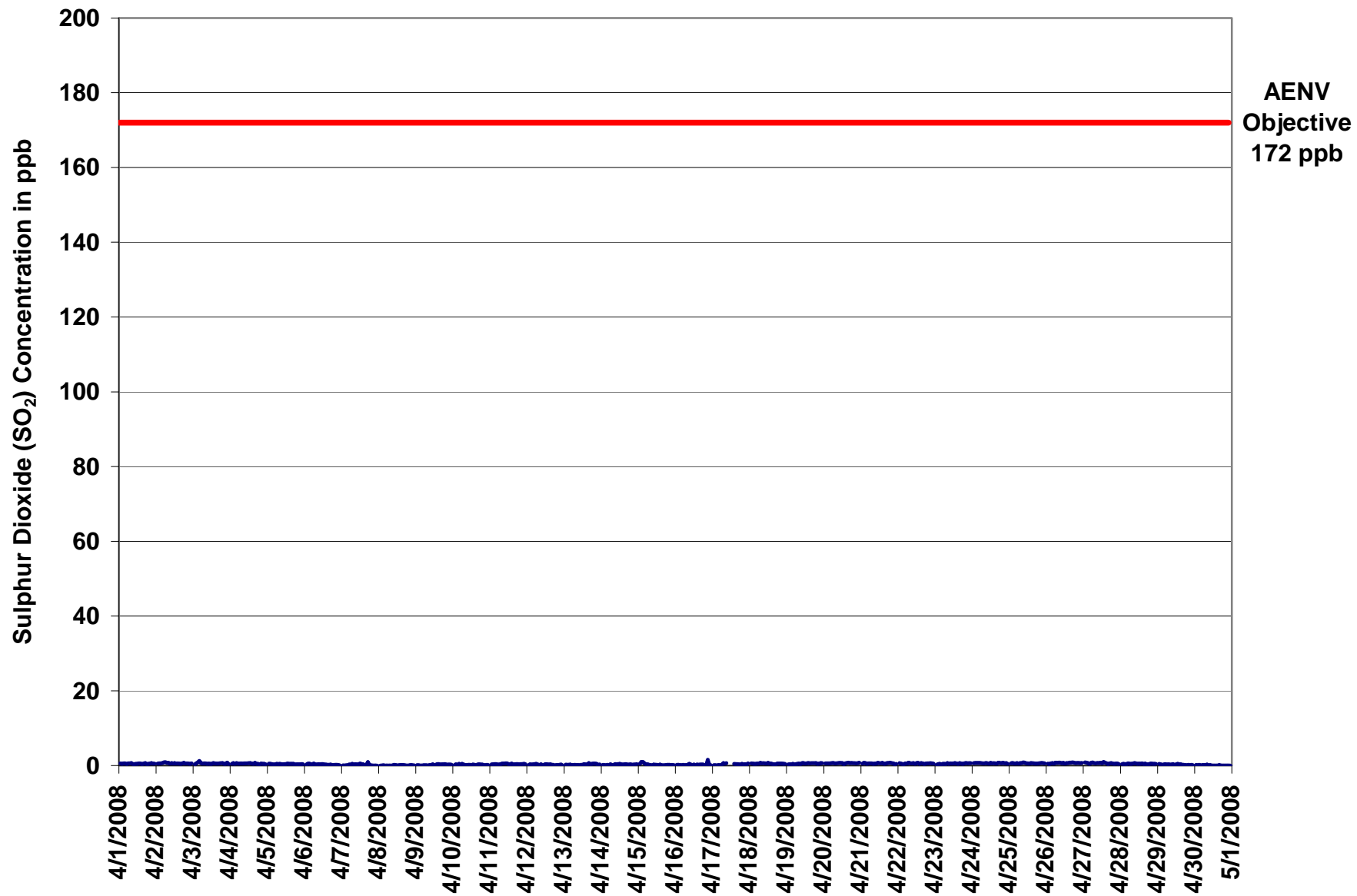


Figure 56. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

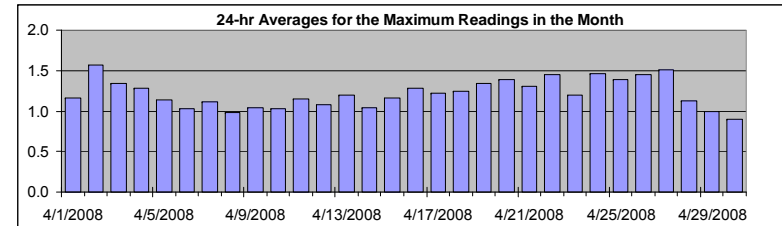
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	4.5	ppb	16-Apr	21:00 22:00
Maximum 24-hr Value:	1.6	ppb	2-Apr	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	2.0	1.3	1.0	1.0	1.0	0.8	1.2 ppb	1.0 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.4
2-Apr-08	A	1	1	1	1	1	2	2	1	1	2	2	2	2	1	2	2	2	2	1	1	2	1	2	1.6	2.0
3-Apr-08	A	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1.3	2.0	
4-Apr-08	A	1	1	2	2	1	1	1	2	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1.3	2.1
5-Apr-08	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.1	2.0
6-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
7-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1.1	3.0
8-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
9-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.0	1.8
10-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
11-Apr-08	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.0
12-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
13-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	1	2	2	1	1	1.2	2.0
14-Apr-08	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7
15-Apr-08	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.0
16-Apr-08	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	4	3	1	1.3	4.5
17-Apr-08	A	1	1	1	1	1	1	2	2	2	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1.2	2.0
18-Apr-08	A	1	1	1	1	1	1	2	1	2	2	1	2	1	2	1	1	2	1	1	1	2	1	1	1.2	1.9
19-Apr-08	A	2	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2	1	2	2	1	1	1	2	1.3	1.9
20-Apr-08	A	2	1	1	1	2	1	1	2	1	1	1	2	1	2	2	2	1	2	1	1	1	1	2	1.4	1.9
21-Apr-08	A	2	1	2	2	1	1	1	1	1	1	1	1	2	1	1	1	2	2	1	2	1	1	1	1.3	2.0
22-Apr-08	A	2	2	2	1	1	1	2	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1.5	2.0
23-Apr-08	A	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	2	2	1.2	2.0
24-Apr-08	A	1	1	2	2	1	1	2	2	1	2	1	2	2	2	1	1	2	1	1	2	1	1	1	1.5	2.0
25-Apr-08	A	1	1	1	1	2	1	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	2	2	1.4	2.0
26-Apr-08	A	1	1	1	1	1	1	2	1	2	1	1	2	1	2	1	2	2	2	2	2	2	1	2	1.4	2.0
27-Apr-08	A	1	2	1	1	1	2	2	1	1	2	2	2	2	2	2	1	1	2	2	1	1	1	1	1.5	2.0
28-Apr-08	A	2	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.1	1.6
29-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0
30-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0.9	1.0
Hourly Avg	N	1.2	1.1	1.3	1.1	1.1	1.2	1.3	1.2	1.3	1.3	1.2	1.3	1.3	1.3	1.2	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.2		
Hourly Max	0.0	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	4.5	2.9	1.9		

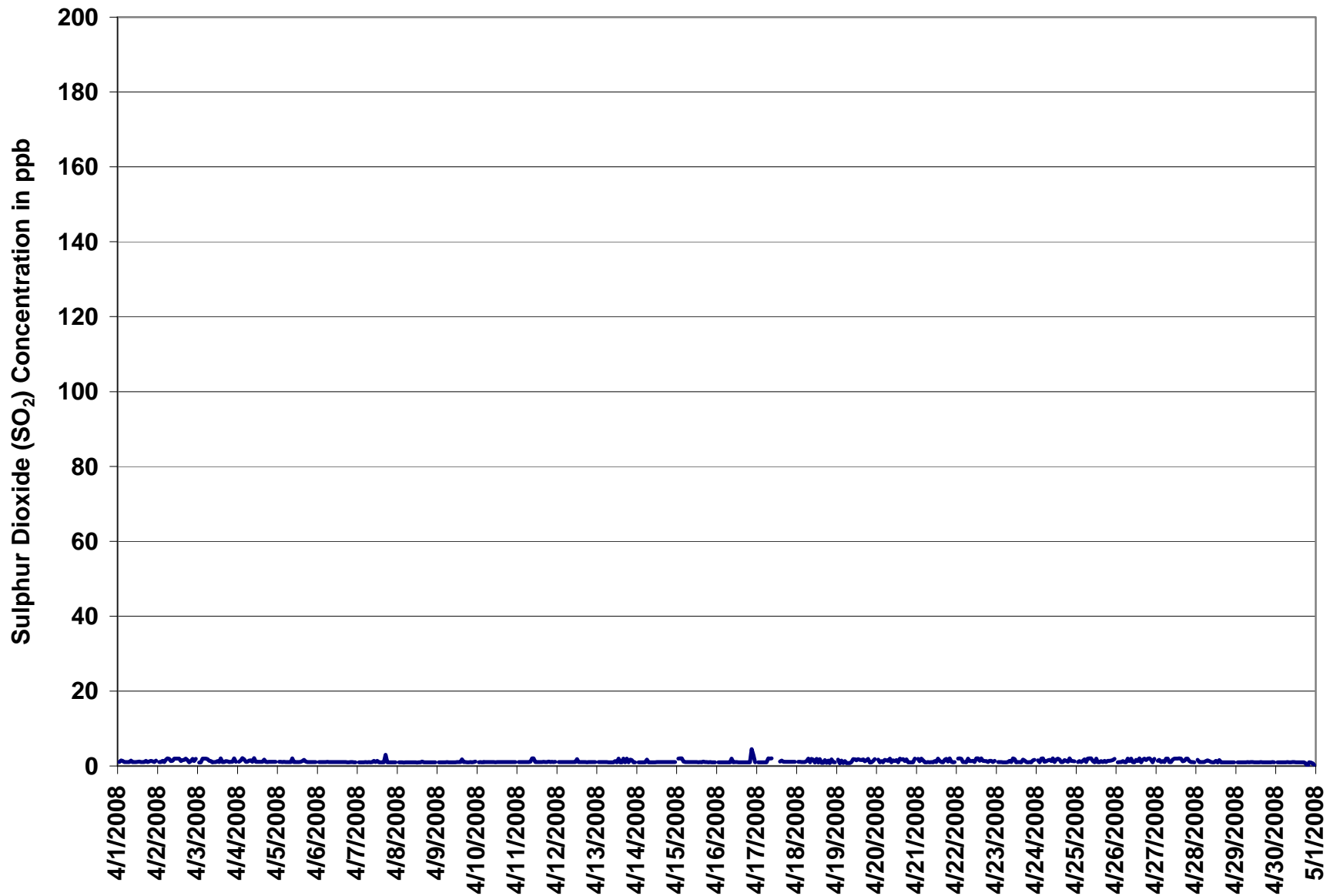
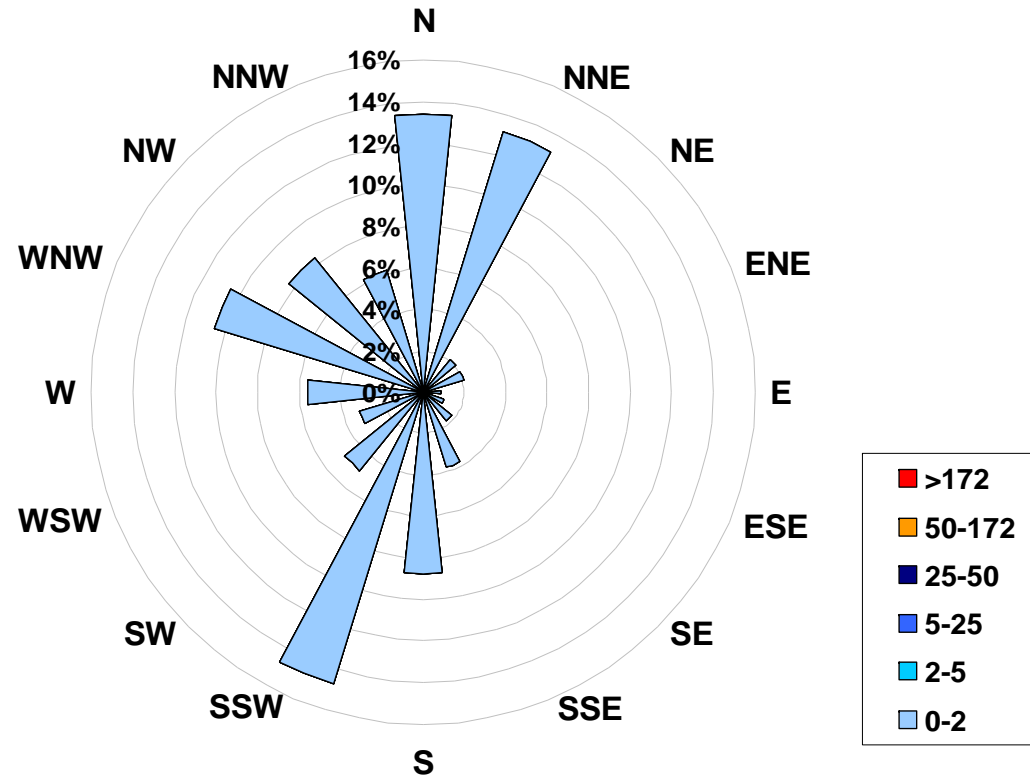


Figure 57. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for April 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	686	
2	to 5	0	
5	to 25	0	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			686

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

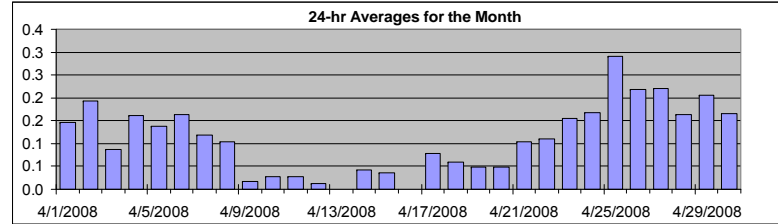
Hydrogen Sulphide (H₂S)

Monitoring Dates: April 1, 2008 to May 1, 2008

Objective Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	0.5	ppb	27-Apr	23:00 0:00
Maximum 24-hr Value:	0.3	ppb	25-Apr	



AIC Time:	31 hrs	Operational Time:	687 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.1 ppb	0.1 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
2-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
3-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
4-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
5-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
7-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
8-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
9-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
10-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
11-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
12-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
13-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
14-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
15-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
16-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
17-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0.1	0.3
18-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
19-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
20-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
21-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
22-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
23-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
24-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
25-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
26-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
27-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.5
28-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29-Apr-08	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
30-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
Hourly Avg	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.0	0.4	0.3	0.5	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5			

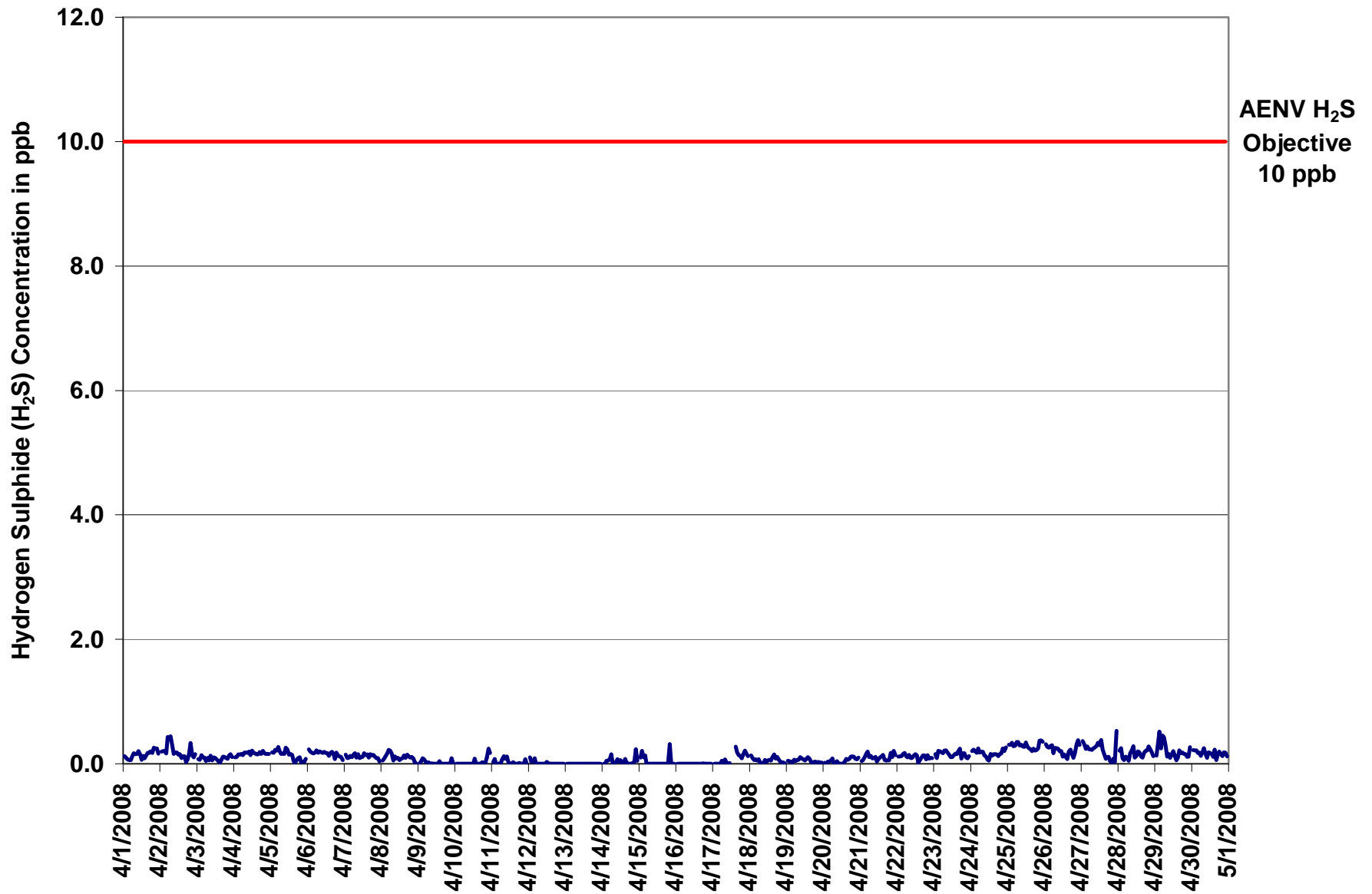


Figure 58. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

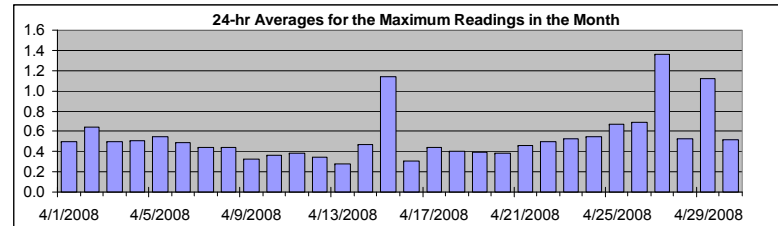
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Value:	19.4	ppb	15-Apr	20:00 21:00
Maximum 24-hr Value:	1.4	ppb	27-Apr	



AIC Time:	31 hrs	Operational Time:	687 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	0.8	0.5	0.5	0.4	0.2	0.2	0.5 ppb	0.5 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-08	A	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	0	1	1	1	1	0.5	0.9	
2-Apr-08	A	0	1	1	0	1	1	1	1	0	1	1	0	1	0	0	0	0	0	1	1	1	1	2	0.6	1.5
3-Apr-08	A	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	1	1	0	0.5	1.4	
4-Apr-08	A	0	1	1	1	0	0	1	0	1	1	0	1	0	1	0	0	1	0	1	1	0	0	1	0.5	0.7
5-Apr-08	A	1	1	1	1	1	1	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.5	
6-Apr-08	A	1	1	0	0	0	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0.5	0.6
7-Apr-08	A	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	0	0	0.4	0.6
8-Apr-08	A	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6
9-Apr-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.3	0.6
10-Apr-08	A	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0.4	1.1
11-Apr-08	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	1.2
12-Apr-08	A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
13-Apr-08	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
14-Apr-08	A	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0.5	2.0
15-Apr-08	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	1.1	19.4
16-Apr-08	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
17-Apr-08	A	0	0	0	0	0	0	0	1	0	0	0	C	C	A	1	0	0	0	1	0	0	0	0	0.4	1.4
18-Apr-08	A	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.6
19-Apr-08	A	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
20-Apr-08	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0.4	0.5
21-Apr-08	A	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0.5	0.7
22-Apr-08	A	0	1	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0.5	0.9
23-Apr-08	A	0	0	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0	0	0	1	0.5	0.9
24-Apr-08	A	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	0	0	1	1	1	1	0.5	0.7
25-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.7	0.8
26-Apr-08	A	1	1	1	1	1	1	1	1	1	1	0	0	2	0	0	1	1	1	2	1	1	1	1	0.7	1.6
27-Apr-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	3	0	17	1.4	16.6
28-Apr-08	A	0	1	1	0	0	0	0	0	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	0.5	0.7
29-Apr-08	A	0	2	8	1	4	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	1	1	1.1	8.4
30-Apr-08	A	0	1	1	0	1	0	1	1	0	1	0	0	0	0	1	0	1	1	1	0	1	1	1	0.5	0.7
Hourly Avg	N	0.5	0.5	0.7	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	1.1	0.5	0.5	1.0		
Hourly Max	0.0	1.6	1.9	8.4	1.2	3.9	2.0	0.8	1.5	0.7	1.2	0.8	0.8	1.6	0.8	0.9	0.7	0.9	0.7	1.5	19.4	2.6	1.2	16.6		

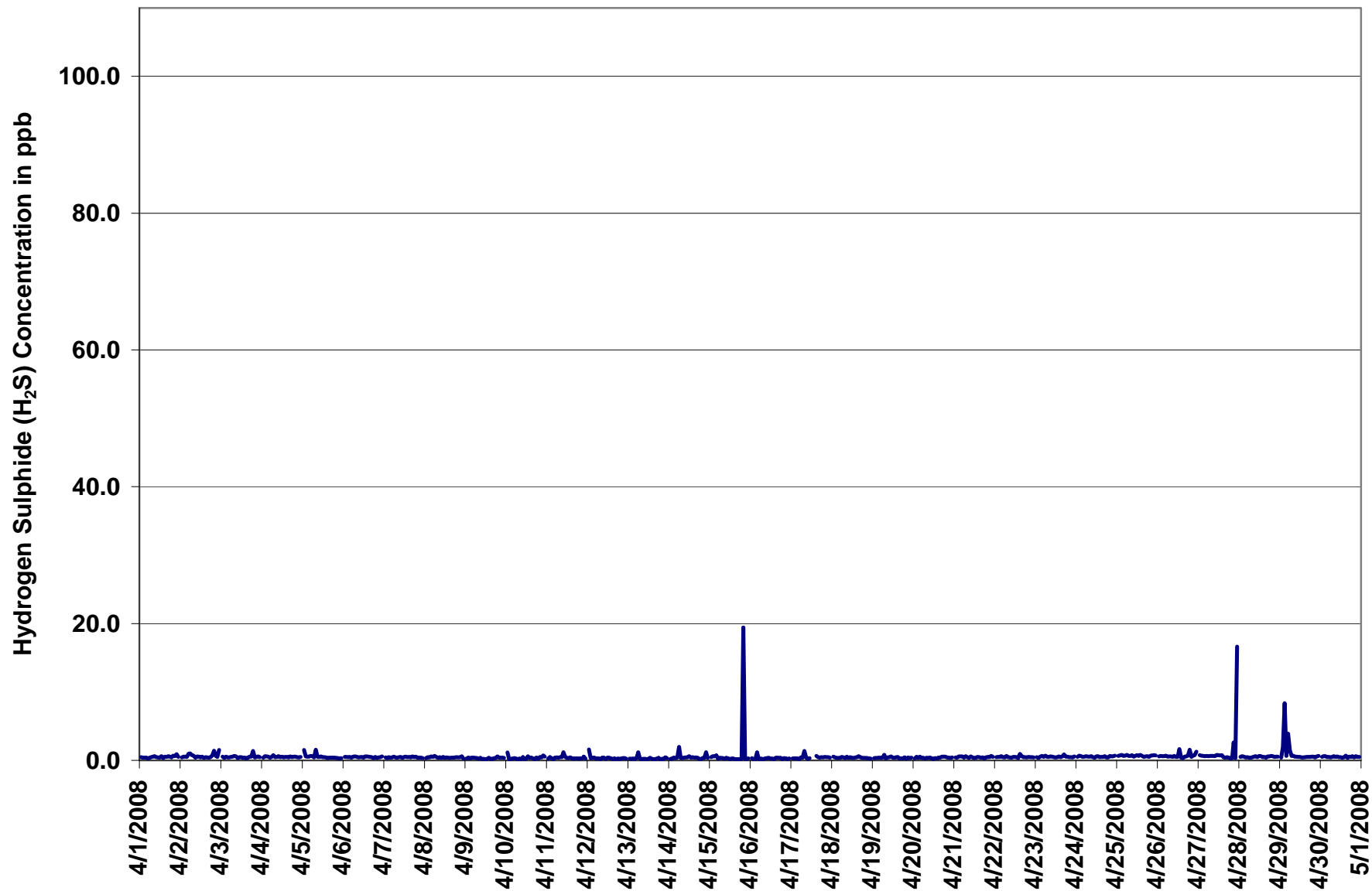
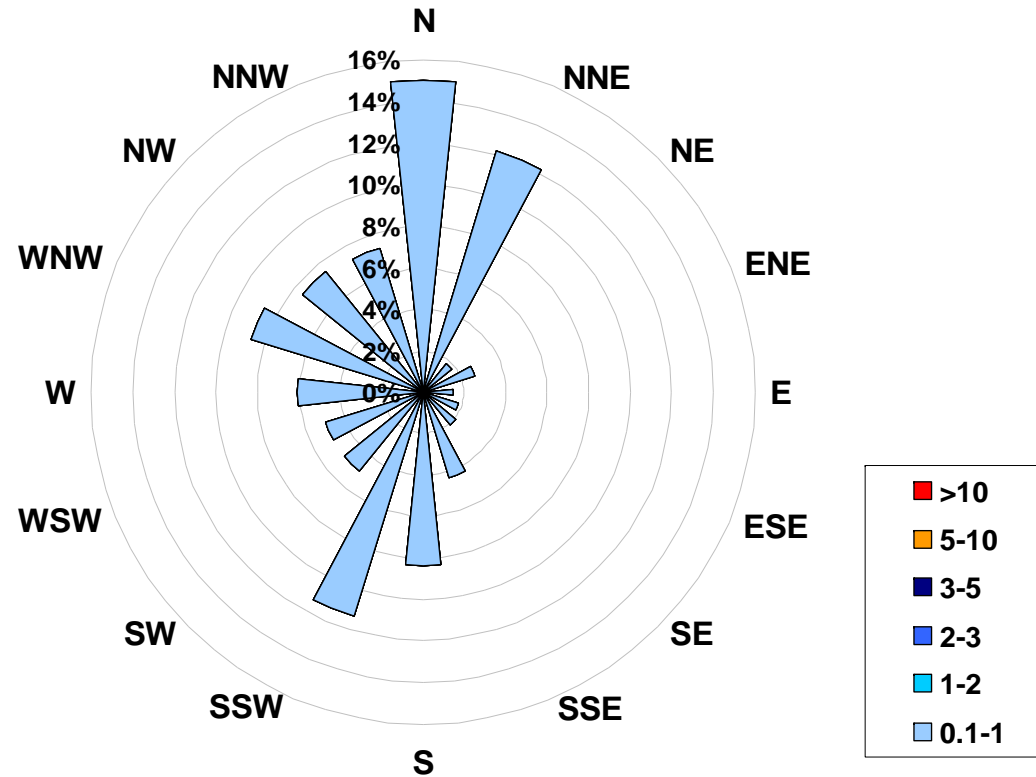


Figure 59. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for April 2008



Calms: 0%

Frequency Distribution of H ₂ S in ppb			
Range			Frequency (hrs)
0.1	<	1	687
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			687

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

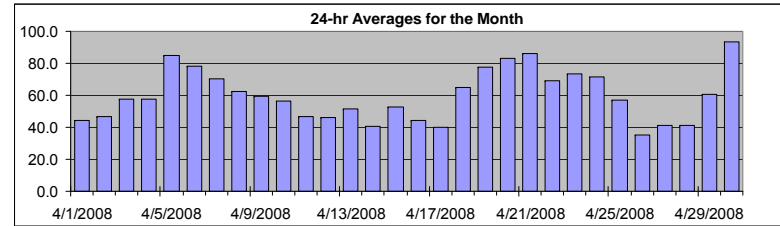
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	96.7	%	30-Apr	23:00 0:00
Maximum 24-hr Value:	93.1	%	30-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	95.5	92.0	78.1	58.7	43.1	25.9	19.3	59.8 %	58.7 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	55	52	49	50	51	53	51	46	41	37	36	38	39	38	31	32	36	40	43	43	49	53	52	48	44.3	55.2
2-Apr-08	49	49	51	52	54	54	54	54	53	52	49	44	38	35	35	35	40	41	43	44	46	48	49	50	46.7	54.5
3-Apr-08	52	53	53	52	50	60	65	79	90	87	75	63	60	55	49	50	49	49	48	48	50	50	48	50	57.8	90.1
4-Apr-08	52	52	53	63	67	65	68	64	55	51	48	46	45	43	41	42	46	51	55	64	73	78	82	85	57.8	84.8
5-Apr-08	86	87	88	92	94	95	96	95	92	88	84	81	78	76	74	72	72	73	75	81	85	87	89	91	84.6	95.7
6-Apr-08	92	95	95	96	95	95	95	92	86	83	79	76	73	69	65	59	53	52	58	63	70	76	78	81	78.2	95.6
7-Apr-08	86	86	86	87	89	89	89	85	78	69	59	49	54	52	52	55	52	56	53	57	68	77	80	82	70.5	89.3
8-Apr-08	84	86	90	93	95	95	96	90	76	59	46	38	35	27	22	26	33	37	44	48	55	69	71	79	62.4	96.3
9-Apr-08	86	88	91	90	90	93	93	91	84	62	41	37	34	33	32	32	32	32	33	35	40	43	61	69	59.3	93.5
10-Apr-08	69	72	75	69	73	74	75	73	64	49	40	36	32	29	27	27	30	35	57	63	67	70	74	71	56.3	75.5
11-Apr-08	66	63	61	64	64	66	63	61	48	40	36	33	30	29	29	30	30	30	35	37	41	48	54	60	46.6	66.1
12-Apr-08	64	65	67	67	66	65	66	63	58	52	42	34	33	31	30	28	27	27	30	33	36	36	39	41	45.8	67.0
13-Apr-08	42	45	47	48	49	54	49	53	58	47	41	41	41	52	63	51	50	51	51	55	59	59	62	63	51.2	62.8
14-Apr-08	62	63	69	71	67	67	67	65	50	30	26	25	23	22	23	21	21	23	25	27	31	33	34	37	40.9	70.8
15-Apr-08	38	38	41	45	51	57	60	68	69	64	66	59	53	45	40	47	53	51	54	53	56	59	55	51	53.0	68.6
16-Apr-08	51	51	49	50	53	56	54	54	48	45	45	43	41	36	37	37	33	34	35	35	40	41	43	47	44.0	55.8
17-Apr-08	50	55	56	53	46	41	41	43	42	40	34	26	20	19	19	19	19	21	40	49	52	57	62	62	40.3	62.1
18-Apr-08	66	68	67	63	69	71	70	71	68	66	59	60	59	59	59	62	57	57	63	68	68	70	70	66	64.7	70.6
19-Apr-08	69	74	74	82	81	80	81	79	77	71	69	71	69	66	72	76	80	81	84	86	85	85	89	90	77.9	89.5
20-Apr-08	87	87	85	86	86	87	85	83	78	80	76	73	76	77	76	78	81	82	86	85	86	88	89	89	82.8	89.2
21-Apr-08	86	86	85	87	88	87	87	86	85	82	77	80	79	83	85	87	87	89	90	92	90	90	90	90	86.1	91.6
22-Apr-08	89	87	88	89	86	69	52	52	50	51	66	72	58	54	58	59	62	57	58	69	72	81	85	87	68.9	89.0
23-Apr-08	90	94	94	92	90	90	90	92	88	75	70	66	62	58	58	57	57	57	58	60	62	64	67	69	73.4	93.7
24-Apr-08	71	69	70	71	72	75	80	80	81	78	80	80	74	69	72	68	61	60	61	64	69	70	72	73	71.6	80.5
25-Apr-08	79	83	86	89	90	92	91	91	90	69	55	46	41	37	33	30	26	25	25	29	33	41	47	47	57.2	91.6
26-Apr-08	50	48	48	47	50	50	46	40	34	30	28	26	24	23	23	21	21	21	21	22	26	36	47	62	35.1	62.3
27-Apr-08	60	62	63	68	70	73	69	55	40	42	35	30	25	21	18	17	18	19	20	27	32	33	39	47	41.0	72.8
28-Apr-08	51	54	63	63	65	65	61	53	47	45	35	29	29	24	25	24	24	27	30	34	35	36	34	37	41.2	65.2
29-Apr-08	42	47	51	57	64	65	65	63	55	49	45	43	43	40	42	44	47	65	78	85	88	94	91	91	60.7	94.3
30-Apr-08	92	93	92	92	92	93	94	94	92	90	92	93	94	96	97	94	92	90	92	94	91	93	96	97	93.1	96.7
Hourly Avg	67.2	68.5	69.5	70.9	71.9	72.4	71.9	70.4	66.0	59.5	54.5	51.2	48.6	46.6	46.2	46.1	46.3	47.8	51.5	55.0	58.5	62.1	65.0	67.1		
Hourly Max	92.1	94.6	95.5	95.6	95.5	95.5	96.3	95.0	92.4	90.5	91.5	93.3	94.4	96.1	96.5	93.6	91.9	90.2	92.4	94.3	90.8	94.3	96.2	96.7		

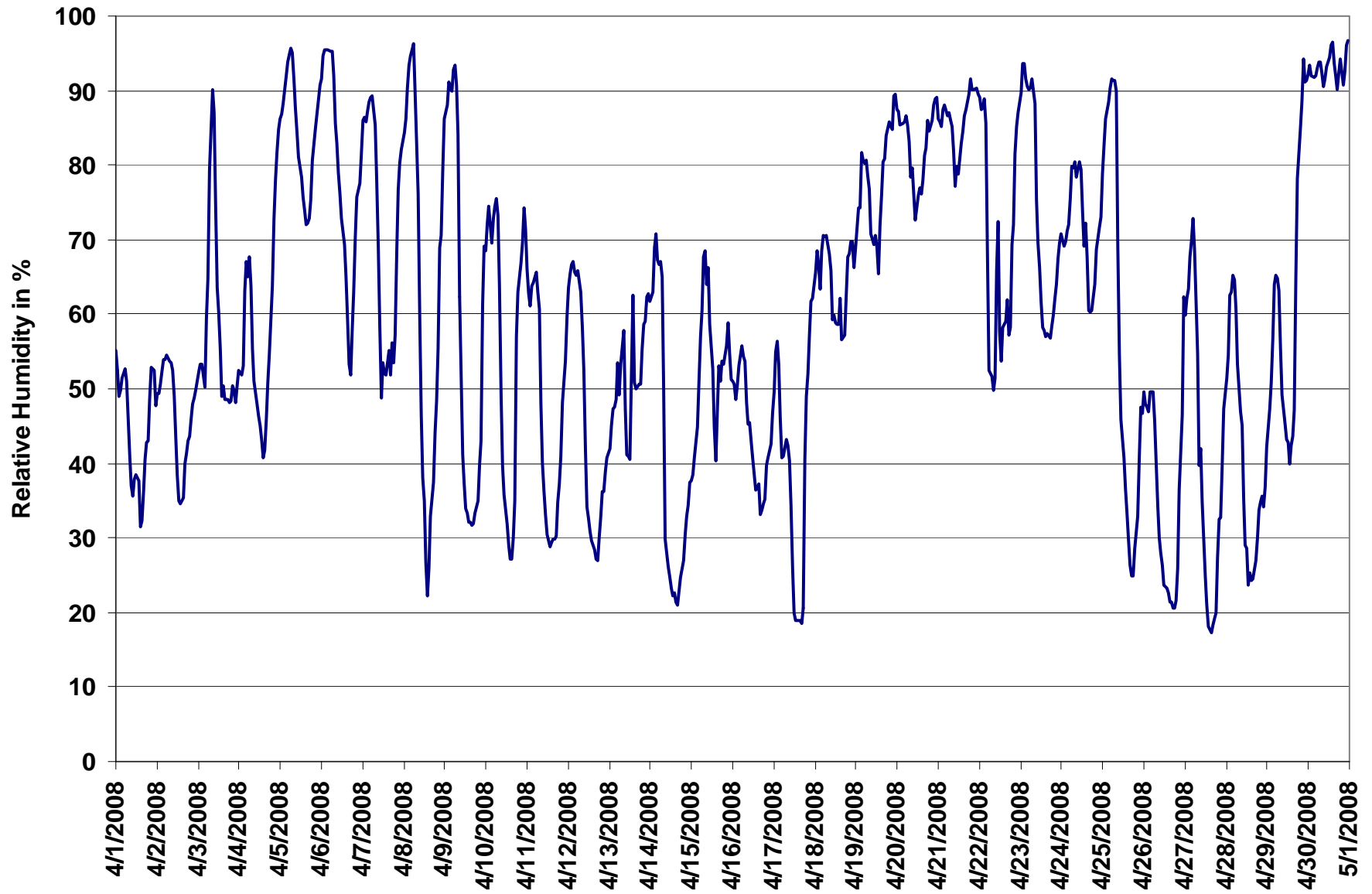


Figure 60. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

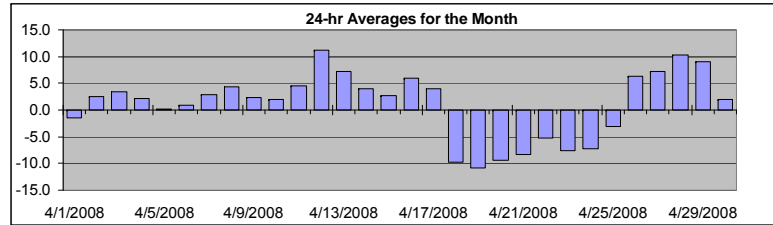
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	20.3	°C	12-Apr	16:00 17:00
Maximum 24-hr Value:	11.2	°C	12-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.1	13.1	5.9	1.5	-3.4	-10.4	-12.0	1.1 °C	1.5 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-08	-5	-6	-5	-6	-6	-7	-6	-4	-2	-1	0	1	1	2	2	2	2	2	2	1	0	-1	0	0	-1.4	2.3
2-Apr-08	-1	-1	-1	-2	-2	-1	-2	-1	0	1	2	4	5	6	7	7	6	6	6	5	5	4	3	3	2.5	6.9
3-Apr-08	2	1	1	1	2	2	2	1	1	2	3	4	4	5	6	6	6	6	6	5	5	4	3	3.4	6.1	
4-Apr-08	2	2	1	-1	-2	-2	-2	-3	-2	1	2	3	5	6	6	6	6	6	5	3	1	0	-1	-2	2.1	6.5
5-Apr-08	-2	-2	-2	-2	-2	-2	-1	-1	0	1	1	1	2	2	2	3	3	3	2	1	0	0	-1	-1	0.3	3.0
6-Apr-08	-1	-2	-2	-3	-3	-3	-3	-2	-1	0	1	1	2	3	4	5	5	5	5	4	2	1	1	0	0.9	5.4
7-Apr-08	0	-1	-1	-1	-2	-2	-2	-1	1	3	6	7	7	7	7	6	7	6	7	5	4	3	2	2	2.9	7.4
8-Apr-08	1	1	0	0	-1	-2	-2	-1	2	5	7	8	9	9	10	10	9	9	7	6	5	4	4	3	4.3	10.3
9-Apr-08	2	1	0	0	-1	-2	-2	-1	0	2	4	4	5	6	6	6	6	6	6	5	3	2	0	-2	2.4	6.5
10-Apr-08	-2	-3	-3	-3	-4	-3	-3	-2	0	3	5	6	6	7	8	8	8	7	5	3	2	2	1	0	2.0	8.1
11-Apr-08	0	0	0	-1	-1	-1	0	1	4	5	6	7	8	9	9	9	10	10	9	8	7	5	3	2	4.5	9.9
12-Apr-08	2	2	2	2	3	3	3	4	6	8	13	16	17	18	19	20	20	20	19	17	15	15	14	13	11.2	20.3
13-Apr-08	12	11	10	10	9	7	9	10	9	8	8	8	7	6	5	7	6	6	6	5	5	4	3	3	7.3	12.4
14-Apr-08	3	2	1	0	0	0	0	1	3	6	6	7	8	8	8	8	8	8	7	5	4	3	2	2	4.1	8.3
15-Apr-08	2	2	2	1	1	1	1	0	0	1	1	3	4	5	6	5	5	5	5	5	3	2	3	2	2.7	5.7
16-Apr-08	1	1	1	0	-1	-1	0	1	4	6	7	8	9	11	11	11	12	11	11	11	9	9	8	6	6.0	11.5
17-Apr-08	5	4	4	5	5	5	5	6	6	5	5	5	6	6	6	6	6	5	3	2	0	-1	-1	-4	3.9	6.2
18-Apr-08	-6	-7	-8	-9	-9	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-11	-11	-11	-11	-9.8	-5.5
19-Apr-08	-12	-12	-12	-13	-13	-13	-13	-13	-13	-12	-12	-11	-11	-10	-10	-9	-9	-9	-9	-9	-9	-9	-9	-9	-10.8	-8.6
20-Apr-08	-10	-10	-11	-11	-11	-11	-11	-11	-11	-10	-10	-9	-9	-9	-9	-9	-8	-8	-8	-8	-8	-8	-8	-8	-9.4	-7.9
21-Apr-08	-8	-9	-9	-9	-9	-9	-9	-9	-9	-10	-9	-9	-9	-9	-8	-8	-7	-7	-6	-6	-7	-7	-7	-7	-8.2	-6.4
22-Apr-08	-8	-8	-9	-9	-9	-9	-8	-8	-7	-6	-6	-5	-4	-3	-2	-2	-2	-2	-2	-2	-3	-3	-4	-4	-5.2	-1.6
23-Apr-08	-5	-8	-9	-11	-12	-11	-10	-9	-8	-7	-6	-6	-6	-6	-6	-6	-6	-6	-6	-7	-8	-8	-9	-9	-7.7	-5.0
24-Apr-08	-10	-9	-10	-10	-10	-10	-10	-10	-9	-8	-7	-6	-5	-5	-5	-4	-4	-4	-4	-5	-6	-6	-7	-8	-7.2	-4.2
25-Apr-08	-10	-11	-12	-12	-12	-11	-10	-9	-7	-4	-3	-1	0	1	2	3	4	4	5	4	2	1	-1	-1	-3.2	4.8
26-Apr-08	-1	-1	-1	-1	-2	-2	0	2	5	8	9	10	11	12	12	13	14	14	14	13	11	7	3	1	6.3	14.1
27-Apr-08	0	-1	-2	-3	-3	-4	-2	1	6	6	9	11	14	15	16	16	16	16	14	14	12	10	10	8	7.2	16.3
28-Apr-08	7	5	3	2	1	1	2	6	9	11	14	16	16	17	17	17	17	16	15	13	12	11	11	10	10.4	17.4
29-Apr-08	10	9	9	8	7	6	6	7	10	10	12	12	13	13	13	14	13	10	8	7	7	5	4	3	9.0	13.7
30-Apr-08	2	2	2	2	2	1	1	1	2	2	2	2	1	0	1	2	3	3	3	3	3	3	2	2	2.0	3.1
Hourly Avg	-1.0	-1.5	-2.0	-2.5	-2.8	-2.9	-2.6	-1.7	-0.3	1.0	2.1	2.9	3.5	4.1	4.4	4.7	4.8	4.6	4.0	3.2	2.2	1.3	0.6	-0.1		
Hourly Max	12.4	11.3	10.5	9.9	9.0	7.4	8.7	10.3	9.6	10.7	14.0	15.9	17.0	18.3	18.9	19.7	20.3	20.2	18.6	16.9	15.2	14.9	13.8	13.0		

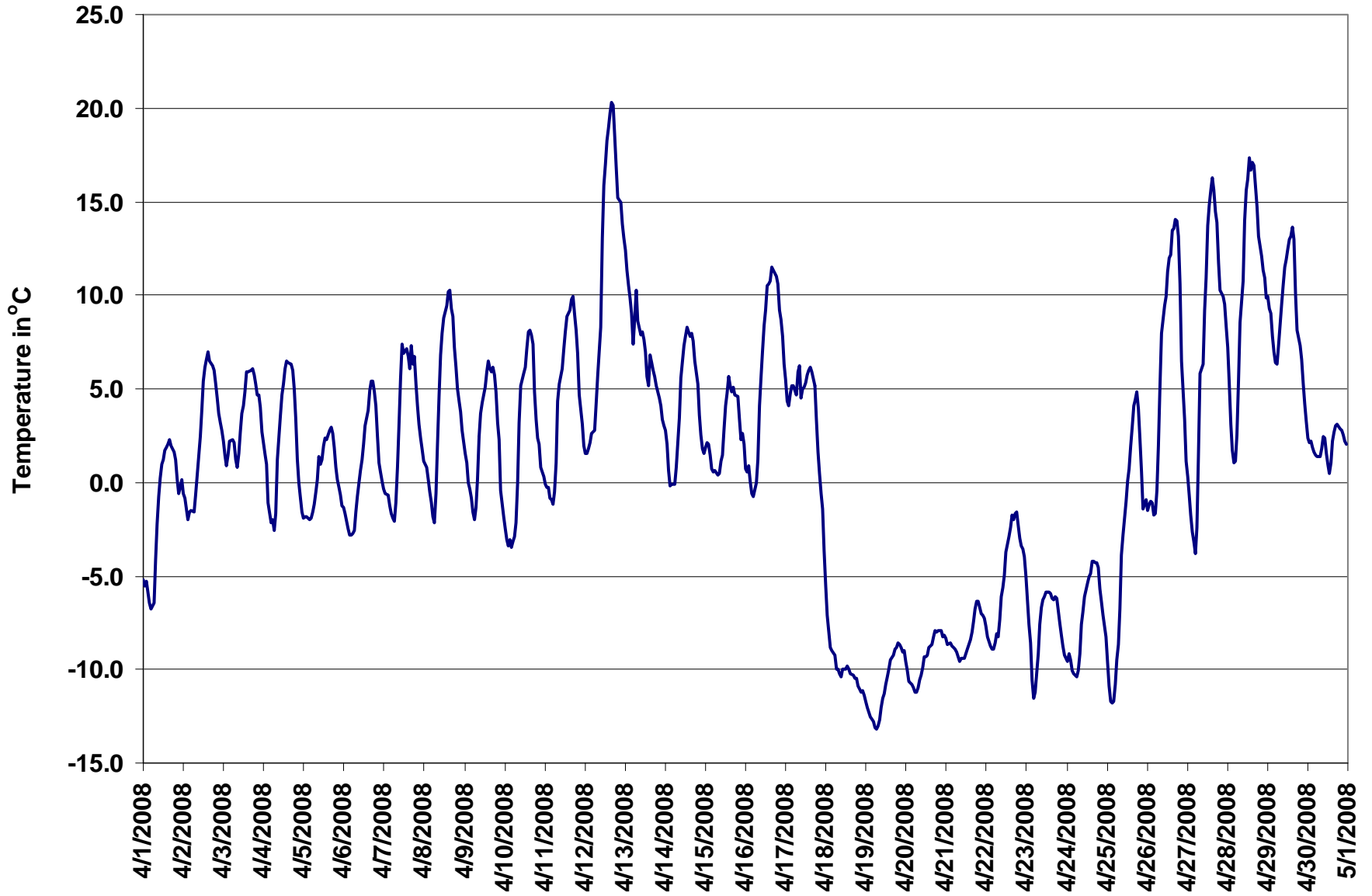


Figure 61. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

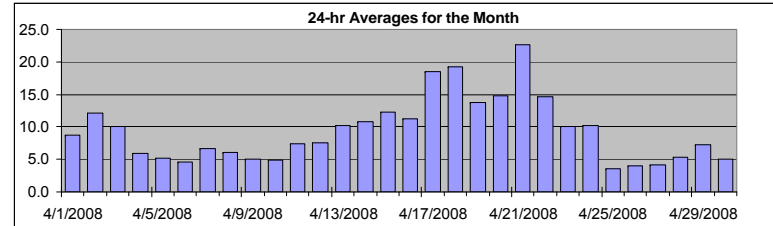
Wind Speed (WSs)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	36.0	km/hr	17-Apr	11:00 12:00
Maximum 24-hr Value:	22.6	km/hr	21-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.7	21.0	13.6	7.4	4.3	2.3	1.5	9.4 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	6	5	4	5	5	6	5	5	5	13	18	16	18	16	16	14	12	10	6	5	2	3	5	9	8.7	17.8	
2-Apr-08	5	3	5	6	10	10	12	18	21	18	17	17	13	15	14	15	12	12	9	8	8	12	15	16	12.1	21.2	
3-Apr-08	6	3	5	10	15	18	12	14	9	8	11	13	14	16	15	12	9	9	6	4	5	9	11	8	10.1	17.8	
4-Apr-08	6	4	3	3	5	5	4	4	4	7	5	6	6	9	11	8	7	10	6	7	8	6	6	4	6.0	11.4	
5-Apr-08	3	2	2	3	3	2	2	2	3	3	8	10	8	10	11	10	8	6	6	7	4	4	4	4	5.2	10.9	
6-Apr-08	2	3	4	3	3	2	3	4	4	4	4	4	4	4	5	5	7	5	5	3	8	9	6	8	4.5	8.5	
7-Apr-08	8	9	7	8	6	8	7	7	7	6	5	5	5	7	7	7	5	6	3	7	6	7	9	7	6.6	8.9	
8-Apr-08	8	7	7	5	3	3	3	4	6	5	4	6	5	6	3	5	11	8	9	6	6	10	9	9	6.0	10.7	
9-Apr-08	6	3	4	3	2	2	3	3	3	5	13	11	9	8	6	7	9	6	5	4	4	2	1	2	5.0	12.6	
10-Apr-08	3	2	3	3	3	4	3	4	4	4	4	6	8	4	6	6	11	6	13	3	4	4	4	5	4.8	13.5	
11-Apr-08	5	6	7	7	6	5	4	3	9	15	16	13	11	13	11	11	10	6	6	3	3	4	4	4	7.4	15.6	
12-Apr-08	4	4	5	6	5	7	6	8	7	8	8	10	11	8	9	5	4	5	9	8	7	11	13	15	7.5	14.7	
13-Apr-08	13	11	9	8	4	6	3	5	21	19	19	18	19	12	7	10	9	8	11	9	7	7	6	4	10.2	21.3	
14-Apr-08	3	3	2	5	4	3	3	5	6	17	19	17	19	17	20	18	21	18	15	13	9	9	7	8	10.9	20.8	
15-Apr-08	8	12	11	10	10	16	18	14	16	19	18	15	18	17	19	16	17	12	11	4	4	3	4	4	12.3	19.0	
16-Apr-08	5	6	7	5	5	5	5	5	5	8	15	16	14	21	22	21	21	19	17	18	8	11	5	5	11.2	21.7	
17-Apr-08	5	5	8	8	6	5	4	15	26	29	31	36	35	34	31	27	22	21	23	19	11	10	14	16	18.4	36.0	
18-Apr-08	19	16	16	22	15	17	20	21	21	22	20	21	20	21	21	19	21	20	18	20	18	20	17	16	19.2	21.9	
19-Apr-08	15	15	16	14	15	14	14	15	16	16	16	17	17	16	16	15	15	17	16	13	8	5	5	6	13.8	17.3	
20-Apr-08	9	10	10	10	10	10	12	13	13	14	15	18	17	21	19	22	21	18	16	17	20	17	11	12	14.8	22.4	
21-Apr-08	23	21	21	19	17	20	21	26	26	26	26	29	29	28	27	26	20	21	16	17	24	20	20	21	22.6	29.1	
22-Apr-08	24	25	24	23	20	11	17	16	18	20	21	16	20	17	17	14	13	10	12	6	2	4	2	2	14.6	25.1	
23-Apr-08	2	2	2	1	2	3	3	8	10	12	14	19	18	18	16	17	15	13	11	11	13	11	9	8	10.0	18.8	
24-Apr-08	9	8	7	8	8	9	9	9	10	12	15	13	13	13	15	12	15	13	10	9	8	5	6	7	10.1	14.8	
25-Apr-08	6	3	2	1	3	3	2	2	2	4	4	5	5	6	4	3	3	4	3	5	5	5	3	6	3.6	5.8	
26-Apr-08	6	4	4	5	5	5	5	5	4	3	5	7	4	4	5	3	6	4	4	3	1	1	2	1	4.0	6.5	
27-Apr-08	1	2	1	3	2	2	2	2	2	4	3	4	4	5	6	7	8	7	4	7	5	8	8	4	4.2	7.8	
28-Apr-08	4	4	3	6	5	5	5	4	3	3	5	4	4	4	6	8	9	10	8	8	7	4	6	4	5.4	9.5	
29-Apr-08	6	5	3	5	3	4	2	2	5	10	9	11	11	11	12	13	10	8	5	4	5	9	12	9	7.3	12.9	
30-Apr-08	8	5	6	6	7	5	3	4	8	13	11	6	2	3	3	4	3	3	4	4	6	3	4	3	5.1	12.6	
1-hr Average	7.5	6.9	7.0	7.3	7.0	7.2	7.1	8.2	9.8	11.5	12.6	12.8	12.7	12.8	12.7	12.0	11.8	10.5	9.5	8.4	7.4	7.6	7.5	7.6			
Hourly Max	24.0	25.1	23.9	22.5	19.7	20.0	21.2	25.7	25.8	29.1	31.0	36.0	34.8	34.4	31.1	27.1	22.5	21.2	23.3	19.9	23.6	19.9	19.9	20.9			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

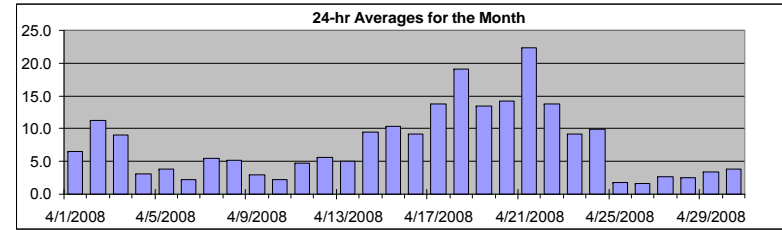
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Maximum 1-hr Average:	35.7	km/hr	17-Apr	11:00 12:00
Maximum 24-hr Value:	22.3	km/hr	21-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.5	20.8	13.4	7.1	3.7	1.5	0.9	9.9 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	6	5	4	5	5	6	7	5	5	12	18	15	18	16	15	14	12	10	6	5	2	3	5	9	6.5	17.6	
2-Apr-08	3	3	5	6	10	10	12	18	21	18	17	17	13	14	14	14	12	12	8	8	8	12	15	16	11.2	21.0	
3-Apr-08	6	3	5	9	15	18	12	14	9	8	10	13	14	16	14	11	9	8	5	4	5	9	11	8	9.1	17.6	
4-Apr-08	5	3	3	3	5	5	4	3	2	6	4	5	6	8	11	7	6	9	6	7	8	5	6	4	3.0	11.1	
5-Apr-08	3	1	1	2	3	1	2	2	2	3	8	9	8	10	11	10	7	6	6	7	3	4	3	4	3.8	10.7	
6-Apr-08	1	3	4	3	2	2	2	4	4	4	3	3	3	3	4	5	6	4	5	2	8	8	6	8	2.2	8.4	
7-Apr-08	8	9	7	8	6	8	7	7	7	6	5	3	2	3	4	7	5	4	3	7	5	6	9	7	5.5	8.8	
8-Apr-08	8	7	7	5	3	2	3	4	6	5	3	5	3	4	2	3	10	7	9	6	5	10	9	9	5.2	10.5	
9-Apr-08	6	2	2	2	2	2	3	3	3	3	12	9	7	7	3	7	9	6	5	4	2	1	1	1	2.9	12.1	
10-Apr-08	2	2	3	3	3	4	3	3	4	4	3	1	6	1	4	5	10	5	12	2	3	1	3	5	2.2	12.0	
11-Apr-08	5	6	7	7	6	5	4	3	8	15	15	12	9	12	11	11	9	6	4	2	2	4	3	3	4.8	15.1	
12-Apr-08	4	4	4	6	5	6	6	8	7	7	8	8	11	6	7	4	3	3	8	8	7	11	13	15	5.7	14.6	
13-Apr-08	13	11	9	8	4	4	1	4	21	19	19	17	19	11	7	9	8	8	11	9	7	6	6	4	5.0	20.9	
14-Apr-08	3	3	1	5	4	3	3	5	4	17	18	16	18	16	19	17	20	17	15	12	8	9	7	8	9.5	20.0	
15-Apr-08	8	12	11	10	10	16	18	14	16	19	18	15	17	16	18	14	16	11	10	3	2	2	3	4	10.3	18.5	
16-Apr-08	4	5	7	5	5	5	5	5	5	7	15	15	14	20	21	21	21	18	17	18	7	11	4	5	9.2	21.4	
17-Apr-08	5	5	8	8	6	5	4	15	25	29	31	36	34	34	31	27	22	20	23	19	11	10	13	16	13.8	35.7	
18-Apr-08	19	16	16	22	15	17	20	21	20	21	19	21	20	20	21	19	21	20	17	20	18	19	16	16	19.1	21.7	
19-Apr-08	15	15	16	14	14	14	14	15	16	15	16	17	16	16	16	15	14	17	16	12	7	5	5	5	13.4	17.1	
20-Apr-08	9	10	10	10	10	10	12	13	13	14	15	17	17	21	19	22	21	18	16	17	19	17	11	12	14.2	22.3	
21-Apr-08	23	20	21	18	17	20	21	26	26	25	26	29	29	28	26	25	20	21	16	16	24	20	20	21	22.3	29.0	
22-Apr-08	24	25	24	22	20	11	17	16	17	20	20	16	20	17	16	13	13	9	12	6	2	3	2	1	13.7	25.1	
23-Apr-08	2	2	2	1	1	2	1	8	10	11	14	19	18	17	16	16	15	13	11	11	13	11	9	8	9.2	18.8	
24-Apr-08	9	8	7	8	8	9	9	9	10	12	14	13	13	13	14	12	14	13	10	9	8	5	6	7	9.8	14.4	
25-Apr-08	6	1	1	1	2	2	1	1	2	1	3	4	3	4	3	2	1	3	3	4	5	5	3	6	1.8	5.7	
26-Apr-08	5	4	4	5	5	5	5	5	4	2	4	6	3	3	5	2	5	4	4	3	1	1	2	0	1.7	5.8	
27-Apr-08	0	2	1	3	2	2	1	2	2	4	3	4	3	5	6	7	7	7	4	7	5	8	8	1	2.7	7.8	
28-Apr-08	3	4	3	6	5	5	5	4	3	1	4	4	2	1	6	8	9	9	8	8	7	2	6	4	2.5	9.4	
29-Apr-08	6	4	2	2	3	0	1	5	9	10	10	11	11	12	12	10	7	2	2	4	8	12	8	3.4	12.4		
30-Apr-08	8	4	6	6	7	5	2	4	8	12	11	6	1	3	3	3	2	2	4	4	6	3	4	3	3.9	12.4	
1-hr Vector	1.6	1.0	1.2	1.5	1.9	2.1	2.4	3.1	5.0	7.6	8.7	9.0	9.9	9.3	8.6	8.6	8.1	6.2	5.1	3.8	2.6	1.9	2.2	2.3			
Hourly Max	23.9	25.1	23.9	22.4	19.6	19.9	21.0	25.5	25.7	28.7	30.5	35.7	34.4	33.8	30.8	26.6	21.7	21.1	22.7	19.7	23.5	19.8	19.8	20.8			

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	358.1	346.2	293.0	200.1	73.8	7.9	1.8	328 deg

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-08	202	218	233	210	201	202	213	221	237	271	293	305	318	319	332	328	325	321	318	305	285	240	273	295	292	WNW
2-Apr-08	250	202	206	192	267	282	278	287	289	295	295	295	292	296	309	305	324	317	306	294	282	294	290	289	291	WNW
3-Apr-08	260	200	203	276	280	294	304	319	301	319	322	319	341	298	297	333	337	293	285	283	264	277	291	295	300	WNW
4-Apr-08	284	245	208	224	188	199	200	165	277	345	339	16	31	8	358	355	2	46	57	35	30	34	18	27	7	N
5-Apr-08	24	96	306	32	3	177	174	180	190	232	339	348	14	28	15	13	39	56	37	37	47	34	15	325	19	NNE
6-Apr-08	346	40	15	15	13	29	7	131	143	148	153	173	158	114	69	66	26	54	84	184	162	169	175	186	117	ESE
7-Apr-08	184	183	189	193	193	192	192	185	185	180	164	170	301	2	228	173	187	245	210	193	194	175	189	183	192	SSW
8-Apr-08	190	188	194	200	203	218	215	196	189	200	177	171	198	146	164	85	138	123	140	138	200	155	179	193	171	S
9-Apr-08	247	193	226	226	223	199	193	195	199	309	330	315	309	316	11	31	352	322	12	329	9	5	355	199	318	NW
10-Apr-08	199	183	179	193	197	192	203	192	187	168	147	215	319	300	253	296	301	259	327	71	211	68	197	206	242	WSW
11-Apr-08	203	198	194	203	200	195	208	226	274	292	299	306	319	301	297	299	294	280	359	105	185	177	201	200	272	W
12-Apr-08	196	204	190	191	206	198	188	188	189	183	200	265	281	278	286	269	159	154	157	148	156	184	186	186	200	SSW
13-Apr-08	188	189	182	190	206	205	131	1	343	331	324	298	297	276	199	254	284	195	193	203	204	198	209	224	256	WSW
14-Apr-08	220	198	193	208	216	192	181	201	230	276	278	271	280	281	297	294	300	305	308	308	304	292	273	268	281	W
15-Apr-08	267	281	285	288	290	300	295	302	301	303	292	300	308	319	322	318	3	355	3	210	172	140	222	223	305	NW
16-Apr-08	171	235	246	200	184	192	194	198	239	258	296	300	299	301	299	306	296	300	292	298	278	275	227	224	282	WNW
17-Apr-08	215	197	192	193	192	196	223	278	292	288	291	284	299	292	286	301	304	323	354	357	1	4	23	21	302	WNW
18-Apr-08	13	13	12	10	14	13	11	17	19	17	22	18	22	23	20	27	17	8	10	12	14	14	20	26	16	NNE
19-Apr-08	27	27	28	19	14	17	14	11	7	8	7	12	16	11	6	10	4	358	354	6	70	55	7	24	14	NNE
20-Apr-08	40	35	33	31	29	18	19	18	15	9	10	1	5	0	3	355	351	344	340	339	355	15	17	17	6	N
21-Apr-08	8	16	9	16	9	9	9	357	359	1	4	358	0	359	355	355	346	350	342	349	352	346	344	346	358	N
22-Apr-08	351	350	350	348	343	330	325	318	321	333	331	324	324	318	329	317	339	339	313	299	328	76	49	200	334	NNW
23-Apr-08	228	218	225	253	357	247	7	15	21	24	5	359	9	11	8	10	8	17	16	14	17	16	16	16	10	N
24-Apr-08	16	20	16	19	22	18	19	12	9	2	4	12	20	27	12	2	356	359	12	10	18	4	326	320	9	N
25-Apr-08	339	334	314	224	203	194	313	145	172	330	242	226	243	275	248	4	164	139	144	160	186	187	205	199	220	SW
26-Apr-08	173	187	206	169	166	154	155	160	146	184	270	322	340	24	58	33	86	116	113	129	189	195	183	235	151	SSE
27-Apr-08	287	216	234	200	235	207	214	202	186	349	335	346	333	339	354	357	9	15	20	330	314	319	318	219	330	NNW
28-Apr-08	213	168	212	212	192	191	196	193	178	343	175	169	342	154	68	82	78	74	70	72	64	81	167	187	127	SE
29-Apr-08	192	244	105	322	239	293	274	272	7	359	20	9	5	1	6	12	355	243	161	107	248	249	266	265	329	NNW
30-Apr-08	265	244	255	263	261	244	226	261	288	299	315	333	293	202	205	201	181	205	208	199	259	212	199	259	260	W
Hourly Avg	304	304	309	300	296	293	315	318	319	322	323	322	330	330	333	339	342	341	348	347	344	336	302	294		

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2008 to May 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	84.0	67.8	24.6	12.9	8.5	5.4	3.8

Status Flag Characters

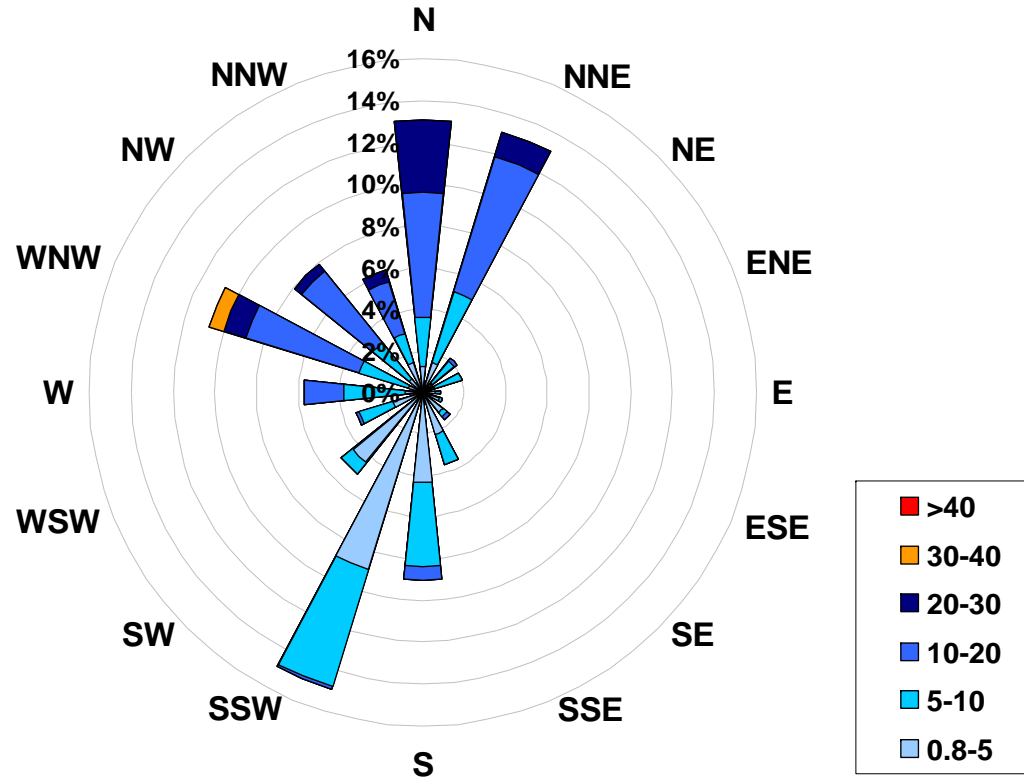
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-08	4	13	11	8	5	4	4	12	21	14	11	14	9	12	10	8	10	9	9	22	48	15	30	8		48.5	
2-Apr-08	49	20	7	12	12	9	6	6	6	7	9	9	12	15	11	16	8	8	10	10	10	6	6	7		49.5	
3-Apr-08	36	21	8	22	8	9	12	7	10	14	12	8	16	17	14	16	16	21	14	13	9	11	12	13		36.4	
4-Apr-08	37	24	34	27	11	14	17	26	70	23	36	27	26	18	13	14	36	20	19	18	7	12	9	16		69.8	
5-Apr-08	25	57	57	42	17	45	16	12	14	32	20	18	16	17	10	10	38	21	11	13	28	21	52	23		57.5	
6-Apr-08	45	15	14	12	14	12	24	19	16	21	53	31	50	50	45	35	33	35	19	77	13	8	8	7		76.9	
7-Apr-08	9	9	9	6	8	7	9	9	13	15	31	75	72	81	71	18	24	44	28	7	15	18	8	10		80.9	
8-Apr-08	8	6	6	6	9	8	3	13	13	14	46	41	67	72	70	68	15	19	15	19	29	14	11	10		71.9	
9-Apr-08	24	32	45	28	33	26	18	16	19	77	16	30	42	43	83	22	19	21	19	22	51	37	63	61		83.3	
10-Apr-08	31	23	12	21	13	9	13	12	18	19	50	84	58	86	54	50	26	34	34	37	55	69	21	6		86.2	
11-Apr-08	9	7	4	4	5	8	5	9	31	12	18	20	31	21	18	19	28	25	53	32	36	12	10	18		52.9	
12-Apr-08	11	12	25	14	8	7	9	7	9	10	17	32	24	38	46	61	68	62	10	7	9	9	6	5		67.9	
13-Apr-08	5	6	6	10	17	38	81	54	10	10	11	15	11	38	13	26	37	10	7	7	6	8	7	18		81.4	
14-Apr-08	10	11	87	8	6	20	13	8	38	12	14	17	19	24	17	19	16	14	11	10	8	7	14	5		87.1	
15-Apr-08	12	10	11	10	10	8	8	12	11	13	10	15	18	18	18	23	13	26	35	60	47	49	45	16		59.9	
16-Apr-08	18	25	10	14	8	7	8	15	18	32	13	11	12	10	10	10	9	9	10	8	19	9	25	14		32.0	
17-Apr-08	7	9	8	11	11	10	18	13	9	10	10	7	9	11	9	11	15	9	13	5	5	6	12	7		18.1	
18-Apr-08	8	7	14	7	8	6	7	10	12	11	13	12	11	11	10	12	10	9	10	7	7	7	8	8		13.8	
19-Apr-08	9	7	8	7	6	7	6	7	8	11	12	12	10	11	11	10	7	6	5	27	15	17	10	15		27.0	
20-Apr-08	12	8	8	7	7	7	7	7	8	8	9	9	9	5	7	6	6	7	7	6	9	10	11	14		14.5	
21-Apr-08	6	6	7	7	12	6	8	8	4	6	6	5	6	6	5	6	6	6	8	10	6	5	5	6		11.7	
22-Apr-08	4	3	4	6	6	11	9	6	7	7	10	10	8	9	13	16	15	9	11	13	43	35	48	73		73.5	
23-Apr-08	14	18	64	44	73	55	90	11	10	16	8	6	9	10	7	9	7	7	6	6	5	4	4	4		90.0	
24-Apr-08	3	4	3	4	5	5	7	7	6	7	7	14	14	11	13	13	6	6	11	6	8	25	23	5		25.4	
25-Apr-08	4	89	76	46	21	41	80	57	41	84	78	30	53	51	52	68	84	28	33	12	15	9	9	12		89.2	
26-Apr-08	13	25	20	13	11	13	10	9	12	47	39	29	55	51	15	43	34	24	20	9	46	31	42	66		66.3	
27-Apr-08	67	24	26	22	31	24	50	42	36	28	16	17	46	11	9	8	13	6	21	12	36	8	5	81		80.9	
28-Apr-08	27	30	24	9	14	10	16	28	21	82	64	54	79	85	20	13	10	8	8	8	6	79	15	30		85.3	
29-Apr-08	8	46	62	89	38	68	82	68	25	14	16	17	17	13	14	15	16	46	77	68	38	20	8	19		89.1	
30-Apr-08	17	19	15	15	19	22	40	34	21	10	13	19	64	12	10	23	33	23	10	16	8	30	11	16		63.7	

Hourly Max	67	89	87	89	73	68	90	68	70	84	78	84	79	86	83	68	84	62	77	77	55	79	63	81
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1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for April 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	227
5	to	10	231
10	to	20	207
20	to	30	49
30	to	40	5
	>	40	0
Total Non-Zero Values			720

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for April 2008

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
14a	Sylvester	0.0	47.0	1.6	
14b	Sylvester	0.0	47.0	2.4	
16a	Beaverlodge	0.1	59.5	1.9	
16b	Beaverlodge	0.1	59.5	2.2	
39a	Clouston Creek	0.1	57.9	1.5	
39b	Clouston Creek	0.1	54.4	5.4	
44a	Peavine	0.1	45.9	2.2	
44b	Peavine	0.0	48.5	2.0	
45a	Gift Lake	0.0	51.3	1.2	
45b	Gift Lake	1.0	49.7	2.3	
53a	Hines Creek	0.3	49.7	0.9	
53b	Hines Creek	0.1	55.4	1.3	
49a	Grande Prairie HP	0.1	55.9	2.1	
49b	Grande Prairie HP	0.1	54.5	1.4	
1	Silver Valley	0.1	49.5	2.3	08-27-081-11 W6M
2	Bay Tree	0.1	49.0	2.7	13-16-078-13 W6M
3	Forth Creek	0.1	57.5	2.0	04-13-082-07 W6M
4	Gordondale	0.2	56.6	3.3	04-34-078-10 W6M
5	Boone Creek	0.1	47.8	1.7	01-23-076-11 W6M
7	Steeprock Creek	0.0	60.8	2.2	09-35-072-13 W6M
9	Spirit River	0.1	52.0	2.4	08-12-079-07 W6M
10	Woking	0.0	57.1	5.0	01-13-076-07 W6M
11	Webber Creek	0.1	54.0	2.1	09-36-074-09 W6M
12	Hythe	0.1	55.4	1.8	14-36-072-11 W6M
14	Sylvester	0.0	47.0	2.0	08-06-069-12 W6M
16	Beaverlodge	0.1	59.5	2.1	15-36-071-10 W6M
17	Poplar	0.2	54.6	1.7	13-06-073-08 W6M
18	Saddle Hills	0.1	52.2	2.8	04-25-074-07 W6M
19	Wanham	0.1	52.5	2.6	16-22-077-03 W6M
20	Shaftesbury	0.0	48.4	1.7	04-03-082-23 W5M
21	Eaglesham	0.1	47.8	2.1	16-21-079-25 W5M
23	Bear Lake	0.1	56.6	2.5	15-31-072-06 W6M

Table 1. PASZA Passive Stations for April 2008 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.0	58.5	2.7	12-31-070-08 W6M
25	Pinto Creek	0.2	53.4	3.3	04-24-069-11 W6M
26	Flyingshot	1.1	51.1	1.9	15-36-070-07 W6M
27	Grande Prairie I	0.0	51.2	1.8	08-15-071-06 W6M
28	Clairmont Lake	0.0	57.9	2.7	09-06-073-04 W6M
29	Smoky Heights	0.1	52.6	2.3	04-06-075-02 W6M
30	Fitzsimmons	0.0	50.0	2.2	15-36-072-03 W6M
32	Gold Creek	0.1	44.4	1.2	06-33-067-05 W6M
33	Wapiti	0.2	58.5	1.4	02-25-071-03 W6M
34	Puskwaskau	0.2	52.0	1.9	15-35-074-25 W5M
35	Jean Cote	0.1	60.2	1.8	12-35-079-21 W5M
36	Guy	0.1	55.2	1.5	03-04-076-22 W5M
37	Crooked Creek	0.0	55.5	2.1	16-01-071-26 W5M
39	Clouston Creek	0.1	56.1	3.4	12-01-073-22 W5M
40	McLennan	0.1	53.0	2.6	03-29-077-19 W5M
41	Valleyview	0.1	58.7	2.2	09-30-069-22 W5M
42	Sunset House	0.0	57.5	2.1	05-32-070-19 W5M
43	High Prairie	0.1	52.3	2.2	16-13-074-17 W5M
44	Peavine	0.0	47.2	2.1	03-05-079-15 W5M
45	Gift Lake	0.5	50.5	1.7	10-07-079-12 W5M
46	Little Smoky	0.1	50.2	1.6	12-01-065-21 W5M
47	Kinuso	0.2	48.5	2.1	12-10-073-10 W5M
48	Deer Mountain	0.0	52.1	1.7	15-22-068-09 W5M
49	Grande Prairie HP	0.1	55.2	1.8	17-26-071-06 W6M
50	Clear River	0.0	57.0	1.8	SE-03-084-12 W6M
51	Bear Canyon	0.0	49.5	1.3	SE-28-085-12 W6M
52	Worsley	0.9	51.3	2.1	NE-34-085-07 W6M
53	Hines Creek	0.2	52.6	1.1	SW-09-084-04 W6M
54	Ronan	0.0	51.2	1.9	SE-03-082-04 W6M
55	Cadotte Lake School	0.1	46.0	1.7	NE-23-086-16 W5M
56	Simon Lake Store	0.1	53.7	1.8	SE-32-086-17 W5M
57	Dixonville	0.1	44.1	1.6	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.1	51.3	2.1	NW-19-083-23 W5M
59	Blue Sky	0.1	53.8	1.6	SW-35-081-02 W6M
60	Gerry Lake	0.1	47.5	2.9	SW-22-084-02 W6M
61	Musreau Lake	0.0	54.8	2.0	NE-22-064-05 W6M

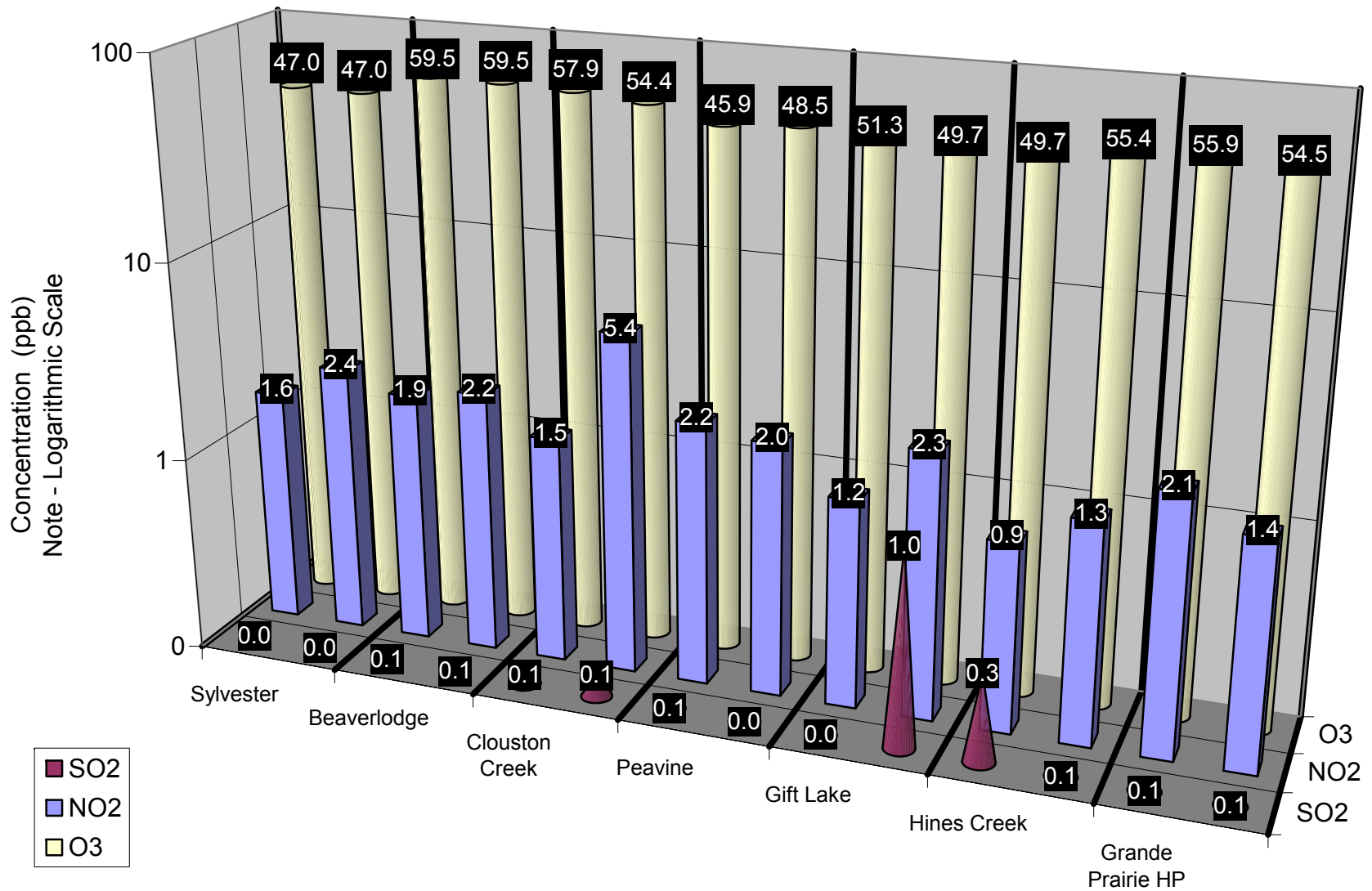


Figure 61. Duplicate Summary Chart

Table 2. Passive Summary Results for April 2008

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for April 2008 (PASZA Zone)			
Mean	0.1	52.8	2.1
Standard Deviation	0.2	4.1	0.6
Minimum	0.0	44.1	1.1
Minimum At	Shaftesbury (#20)	Dixonville (#57)	Hines Creek (#53)
Maximum	1.1	60.8	5.0
Maximum At	Flyingshot (#26)	Steeprock Creek (#7)	Woking (#10)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	0.2	42.9	1.9
PASZA Beaverlodge passive	0.1	59.5	2.1
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	36.4	6.8
PASZA Grande Prairie passive	0.1	55.2	1.8
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.1	39.9	1.4
PASZA Spirit River passive	0.1	52.0	2.4

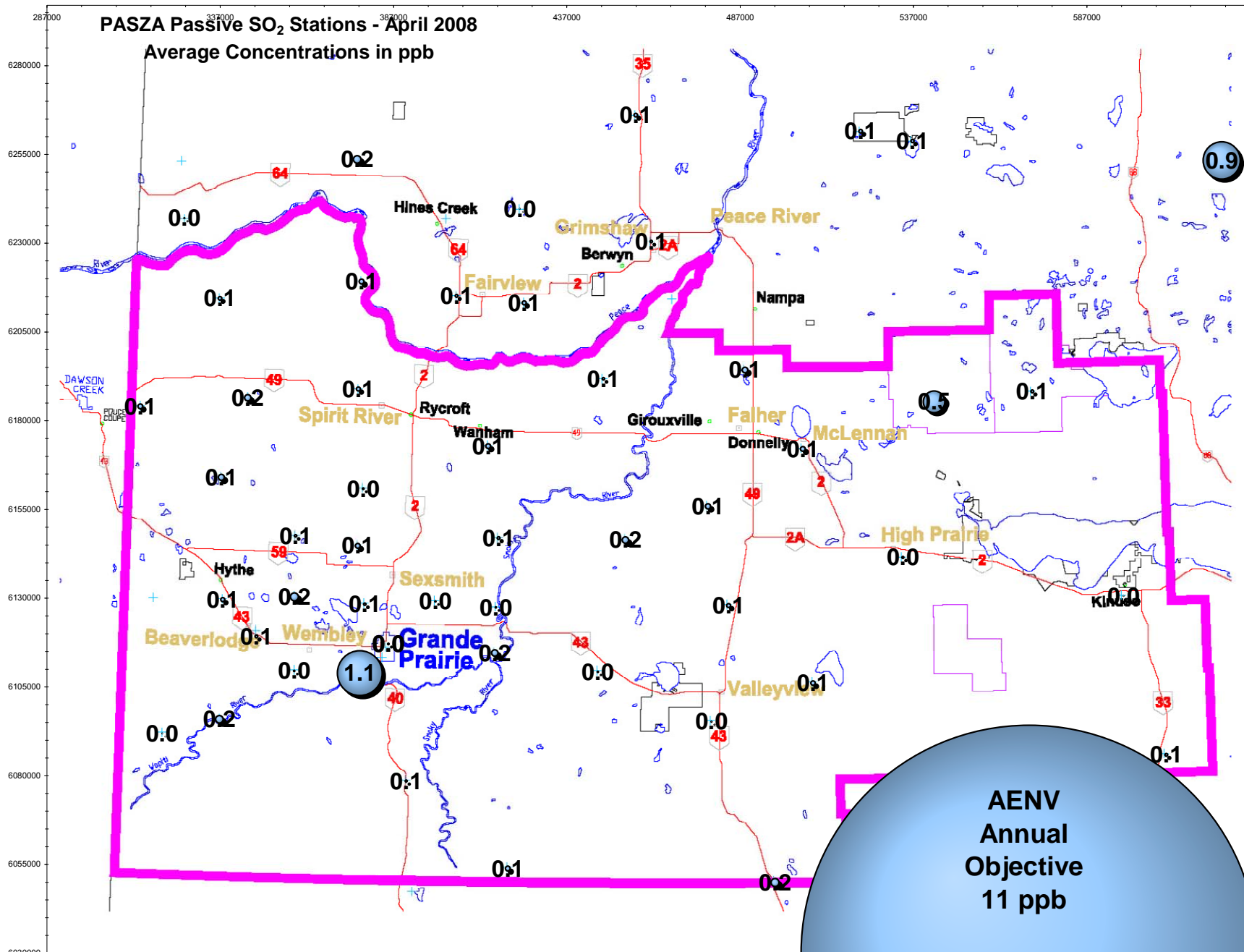


Figure 62. SO₂ Bubble Chart

Alberta Ambient Air Quality Objective - Annual SO₂ Objective is 11 ppb

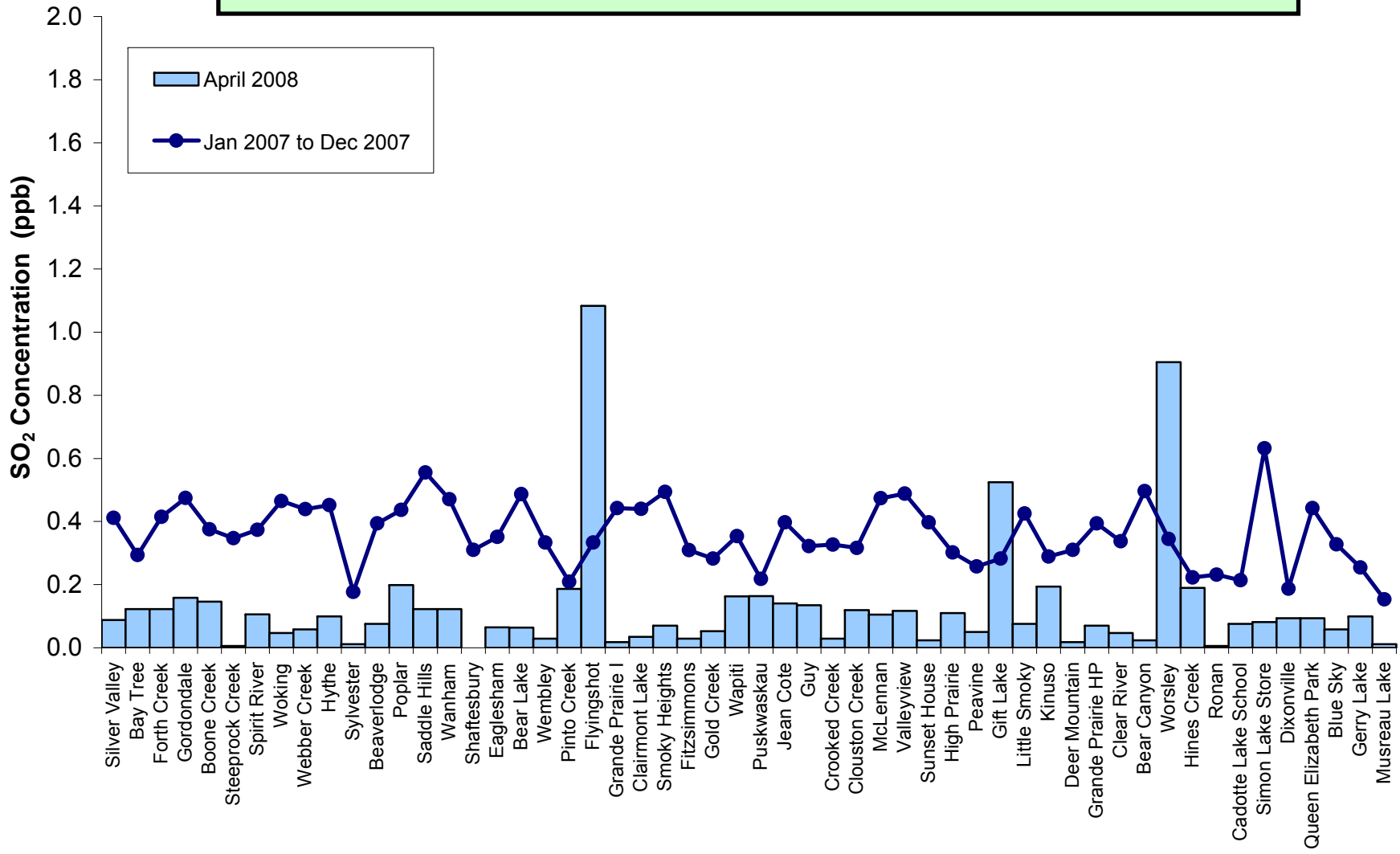


Figure 63. SO₂ Summary Chart

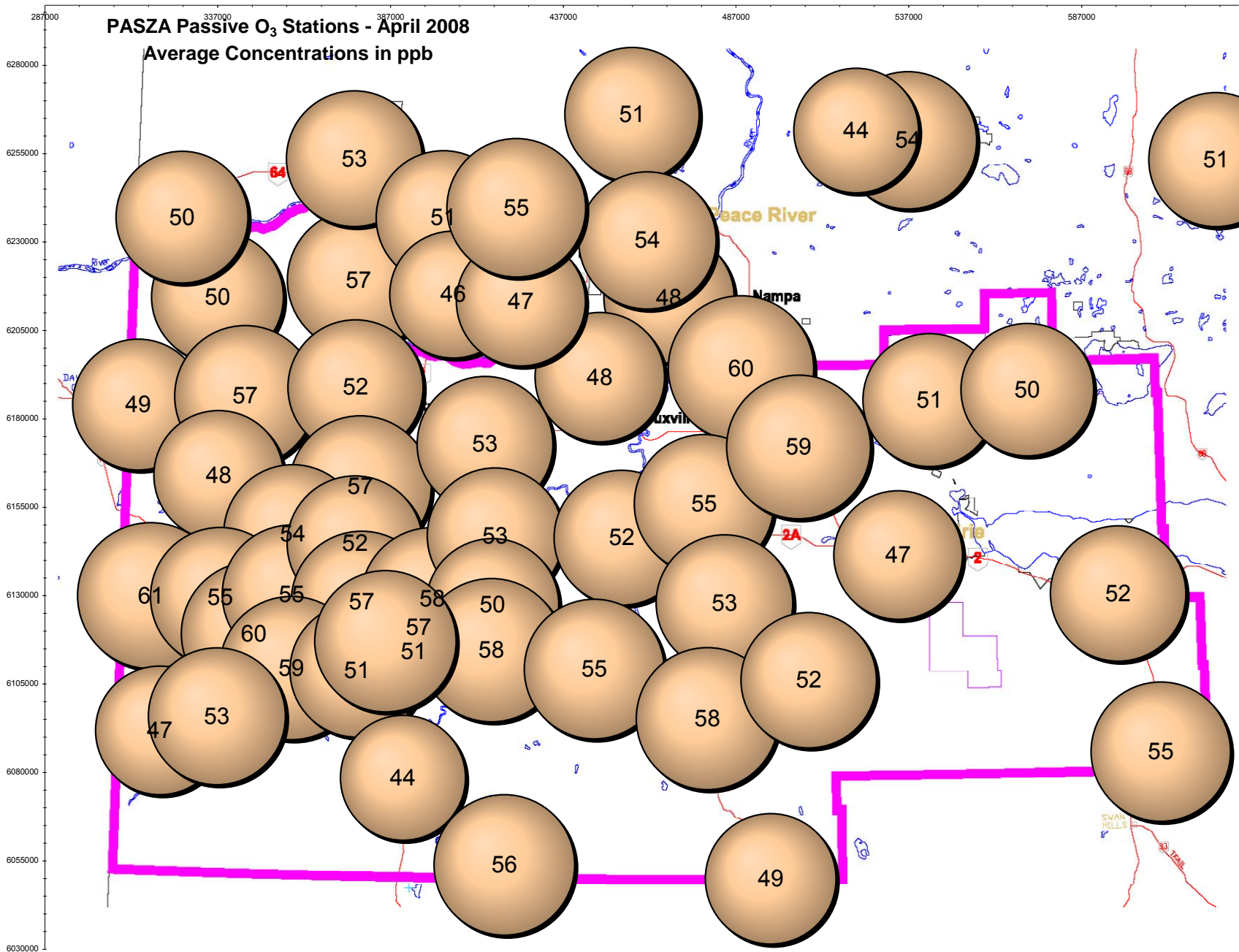


Figure 64. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

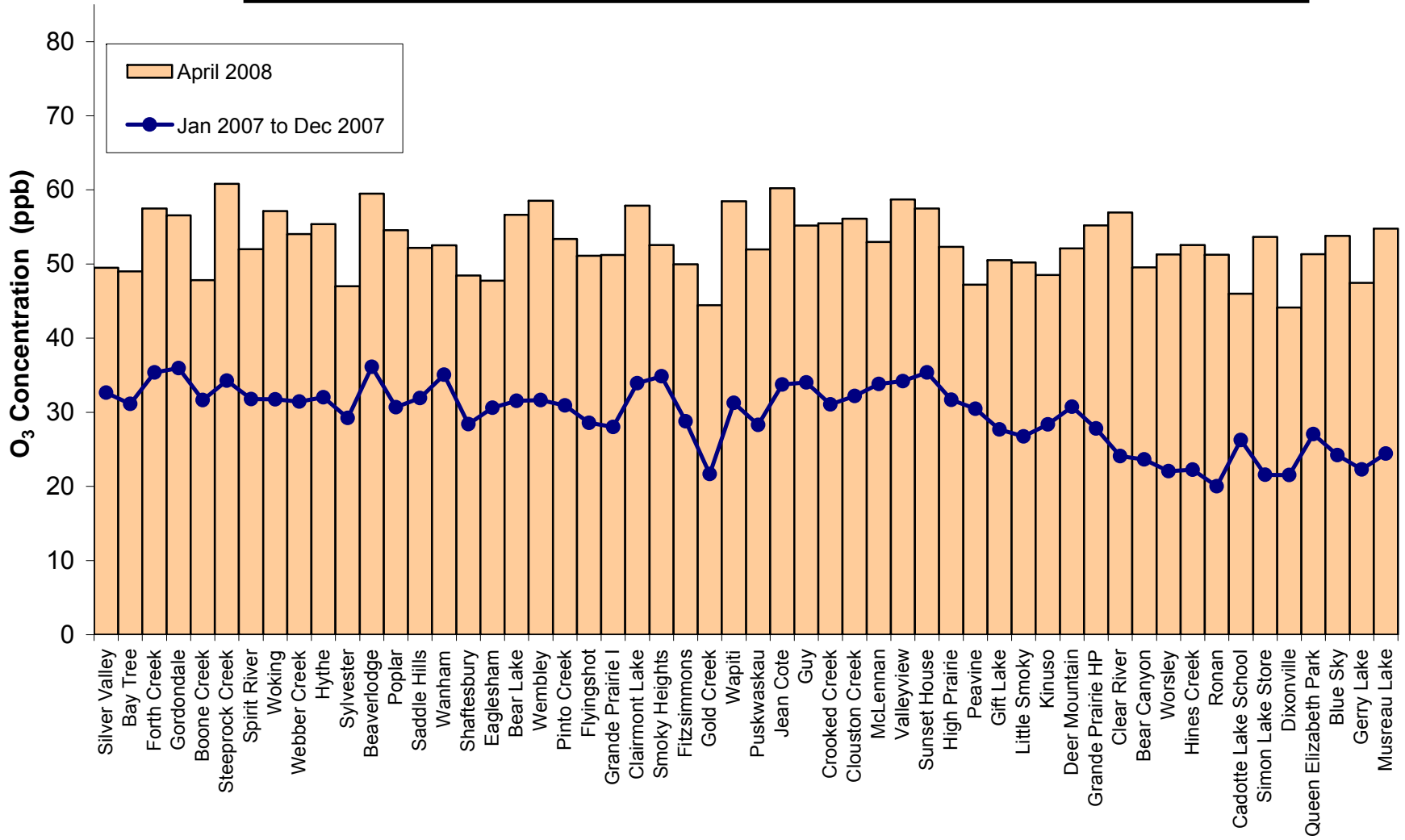


Figure 65. O₃ Summary Chart

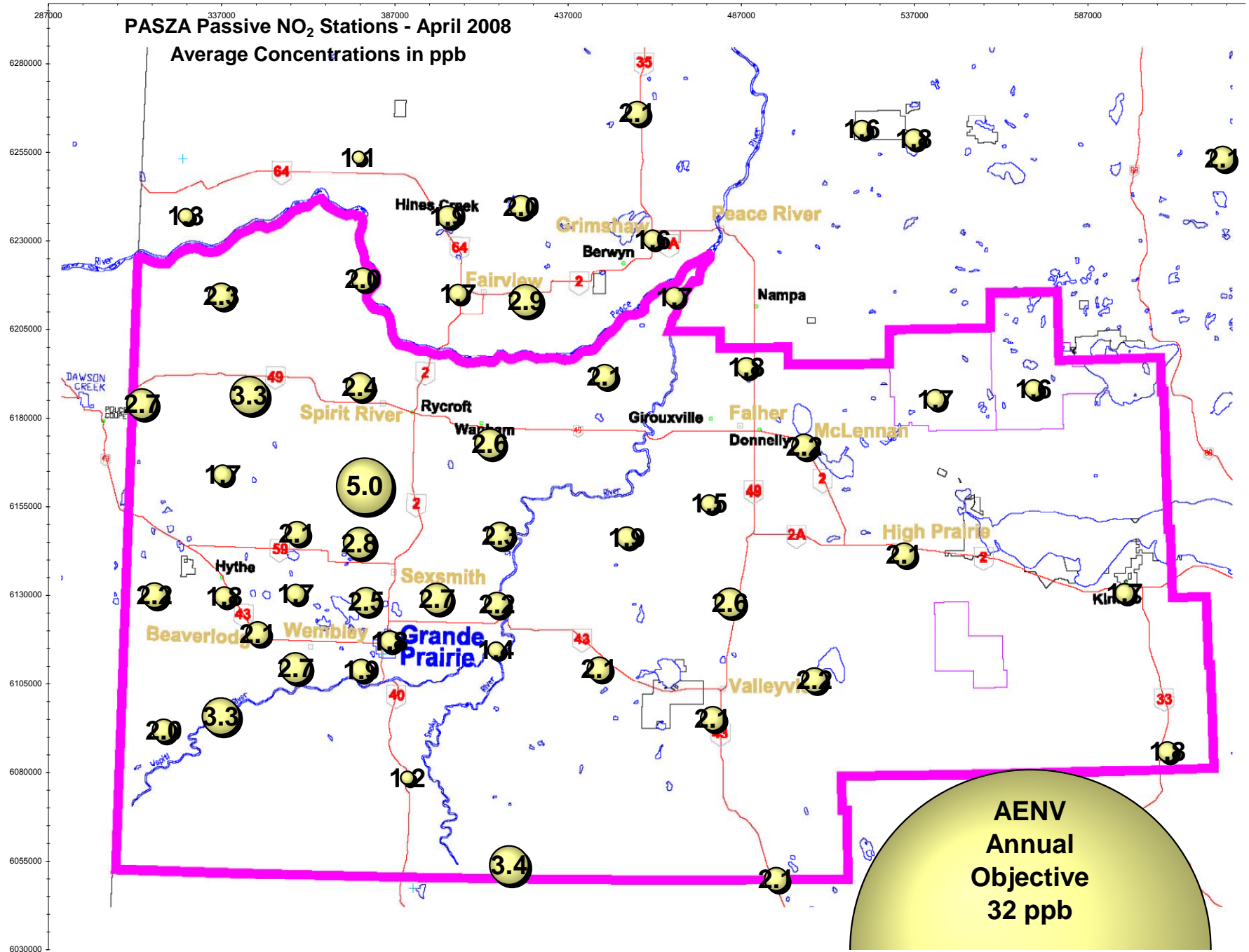


Figure 66. NO₂ Bubble Chart

Alberta Ambient Air Quality Objective - Annual NO₂ Objective is 32 ppb

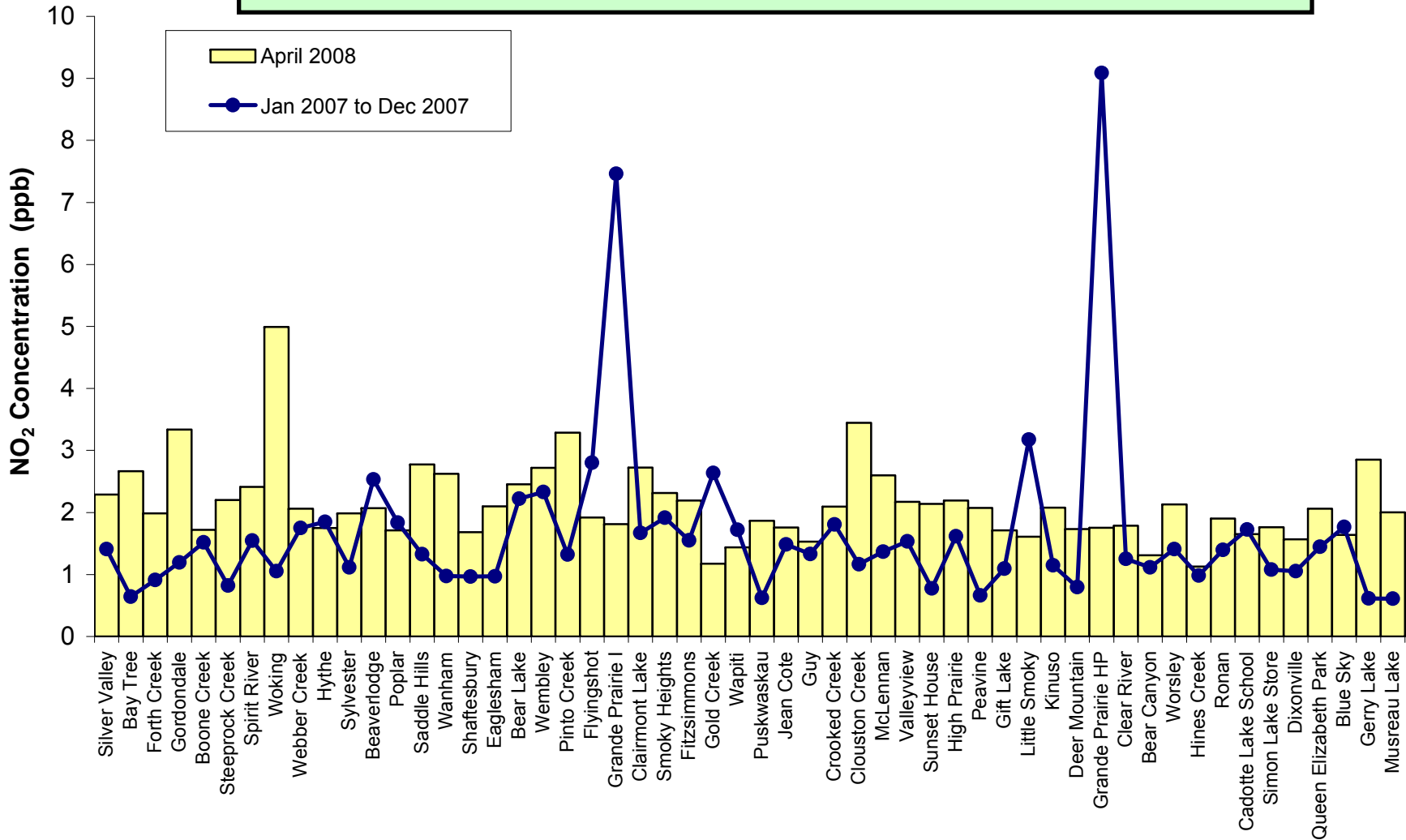


Figure 67. NO₂ Summary Chart

April 2008 Calibration Reports

**PASZA - Henry Pirker Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃, CO, THC and TRS**

**PASZA – Evergreen Park Station with the following calibrations:
SO₂, TRS and TEOM**

**PASZA – Smoky Heights Station with the following calibrations:
SO₂ and TRS**

**PASZA – Beaverlodge Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃**

**PASZA – Spirit River (Portable) Station with the following calibrations:
SO₂, TRS, NO, NO₂, NO_x, O₃,**

**PASZA – Valleyview Station with the following calibrations:
SO₂, H₂S**

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:15	End Time (MST)	13:10
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	50.3 ppb	Cal Gas Expiry Date	1/2/2009
		Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	0.996475	Calculated slope	1.003264
Calculated intercept	-1.537401	Calculated intercept	-1.198317
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.5		7.6	
Coefficient	.800		.800	
Pressure	643.5	mm Hg	637.6	mm Hg
Flow	0.480	lpm	0.481	lpm
Lamp Voltage	44296	Hz	44657	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.0	0.0	N/A
4988	39.86	398.8	398.1	1.0018
4988	19.91	200.0	201.1	0.9944
4988	9.93	99.9	102.0	0.9797
4988	0.00	0.0	0.0	As Found Zero
4988	39.82	398.4	398.1	As Found Span
Average Correction Factor				0.9920

Calculated value of As Found Response: 395.1 ppb Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	0.0	ppb	-0.7	ppb
Auto span	340.1	ppb	334.7	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

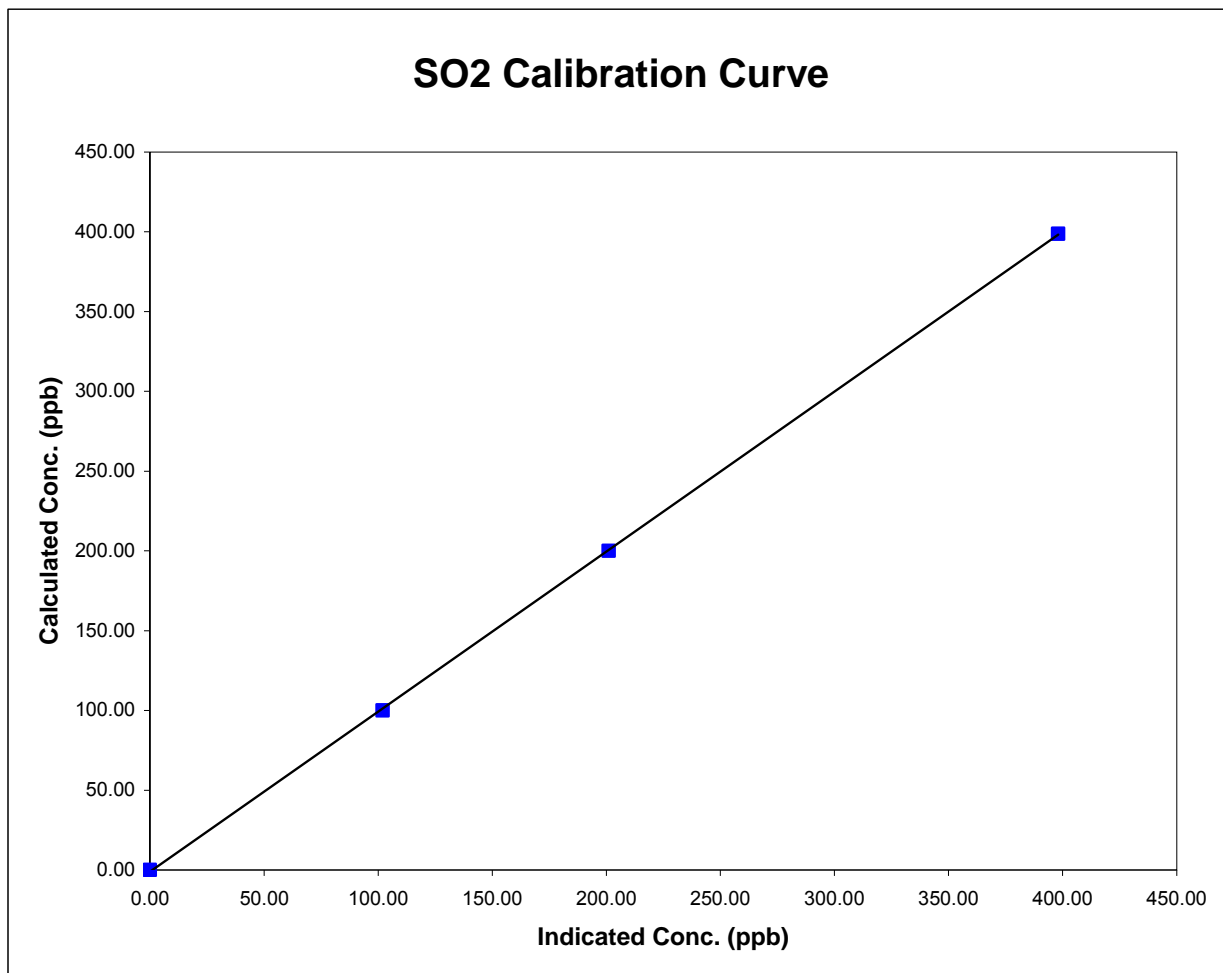
Parameter **SO2**Air Monitoring Network **PASZA**

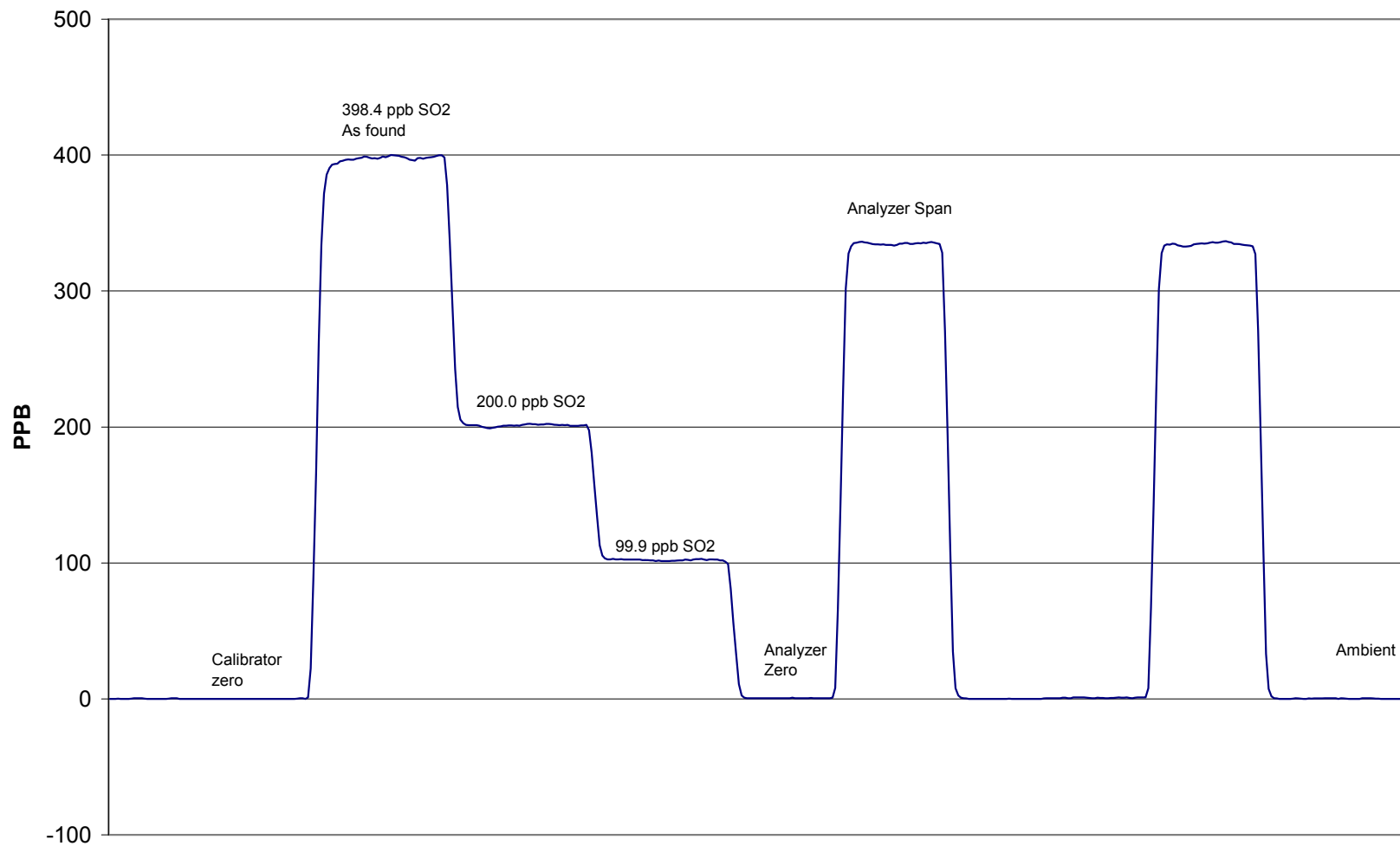
Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:10
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
398.8	398.1	1.0018	Correlation Coefficient	0.999959
200.0	201.1	0.9944		
99.9	102.0	0.9797	Slope	1.003264
			Intercept	-1.198317



Henry Pirker SO₂ Calibration

April 9, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	9:15	End Time (MST)	13:45
Barometric Pressure	0.928 Atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	1/2/2009
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL16161

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO2	NOx	NO
Before	Data Slope	1.010892	1.009470	1.007381
	Data Offset	-0.836225	-2.383193	-1.667471
After	Data Slope	1.009756	1.011255	1.011376
	Data Offset	0.068397	-1.779139	-1.737032
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	Teco 42C	Analyzer serial #	508011073
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Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.9	ppb	7.9	mV
NOx background	8.3	ppb	8.3	mV
NO coefficient	0.694		0.684	
NOx coefficient	0.999		0.997	
Chamber Temp	49.9	Deg C	50.0	Deg C
Cooler Temp	-2.5	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	167.9	mm Hg	168.8	mm Hg

Notes:

Calibration Report



Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date: **April 9, 2008** Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4988	0.00	0.0	0.0	0.0	0.2	0.2	0.0	N/A	N/A
1	4988	39.86	387.7	387.7	0.0	384.3	384.2	0.1	1.0089	1.0092
2	4988	19.89	194.2	194.2	0.0	194.8	194.8	0.0	0.9969	0.9970
3	4988	9.92	97.1	97.1	0.0	99.1	99.0	0.0	0.9792	0.9801
AFZ	4988	0.00	0.0	0.0	0.0	0.2	0.2	0.0	0.0000	0.0000
AFS	4988	39.88	387.9	387.9	0.0	384.3	384.2	0.1	1.0094	1.0097
Average Correction Factor									0.9950	0.9954

As Found Concentrations: NO_x= 381.6 NO= 382.3 As Found Percent Change NO_x= -1.6% NO= -1.4%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.86 ccm

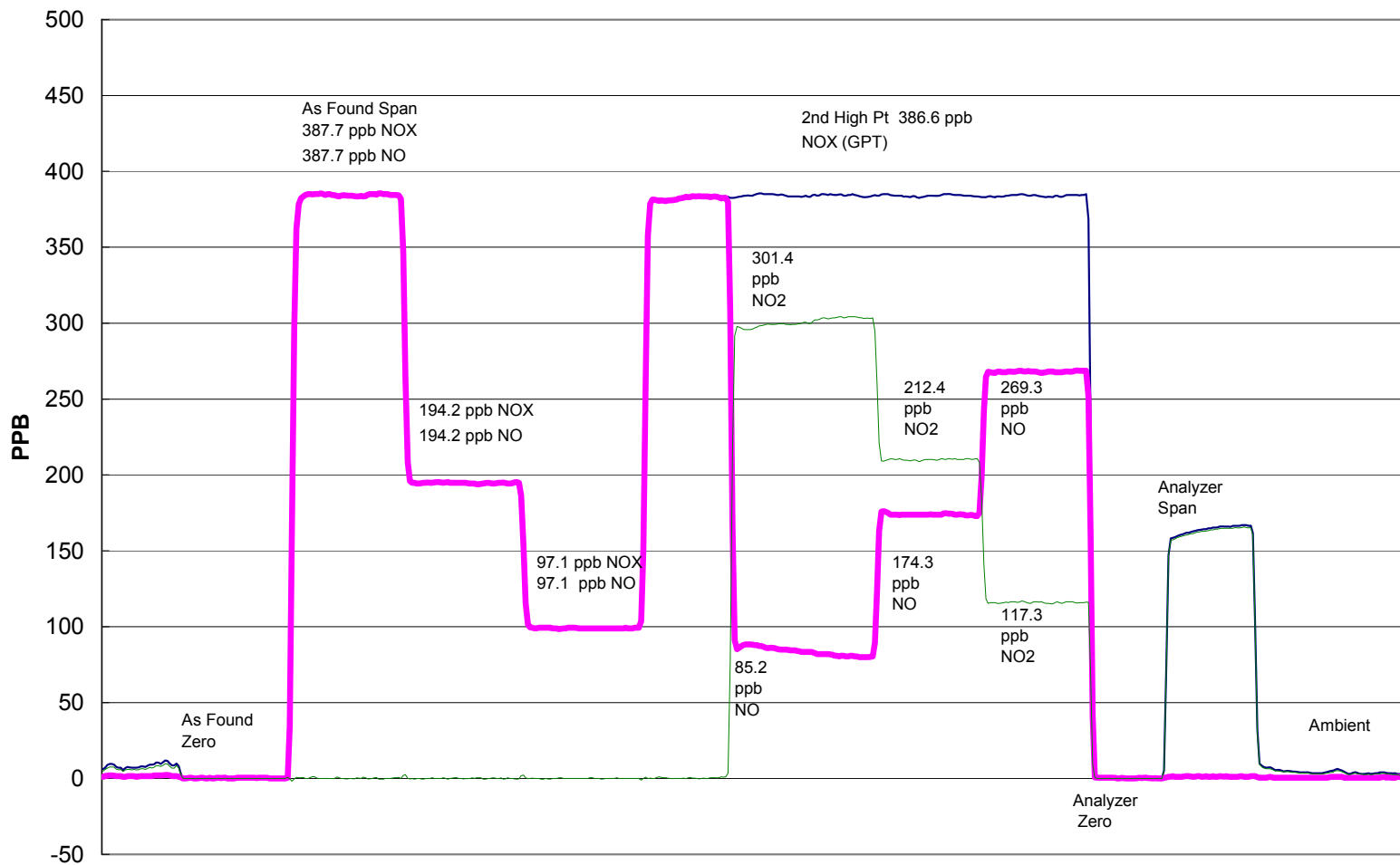
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	386.6	384.9	1.7	382.5	382.3	0.2	1.0107	1.0068	N/A	N/A
300	386.6	85.2	301.4	384.5	85.9	298.7	1.0056	0.9912	1.0093	99.1%
200	386.6	174.3	212.4	383.8	174.0	209.9	1.0074	1.0014	1.0115	98.9%
100	386.6	269.3	117.3	384.0	268.0	116.1	1.0068	1.0049	1.0105	99.0%
Average Correction Factor							1.0066	0.9992	1.0104	99.0%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-0.5	0.6	0.8	ppb	0.9	1.0	0.7	ppb
Auto span	165.7	166.1	-0.5	ppb	164.7	165.0	-0.5	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



April 9, 2008

Calibration Summary

Parameter **NO₂**Air Monitoring Network **PASZA**

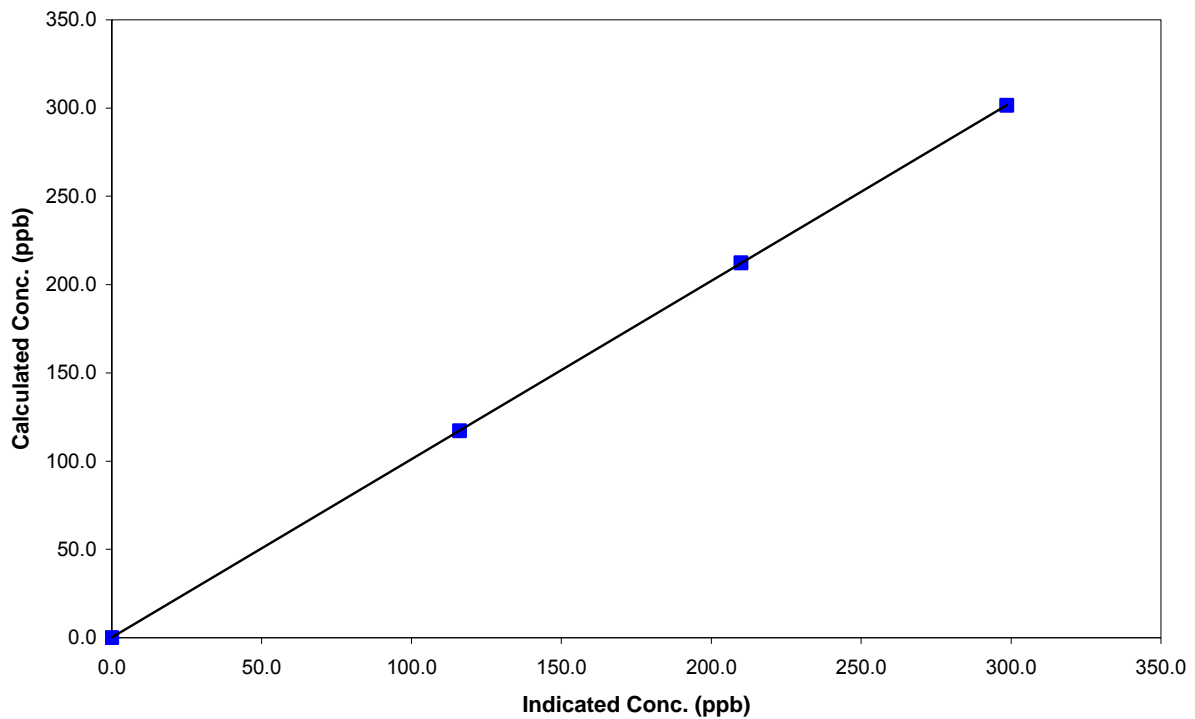
Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
301.4	298.7	1.0093	Correlation Coefficient	0.999997
212.4	209.9	1.0115		
117.3	116.1	1.0105	Slope	1.009756
			Intercept	0.068397

NO₂ Calibration Curve



Calibration Summary

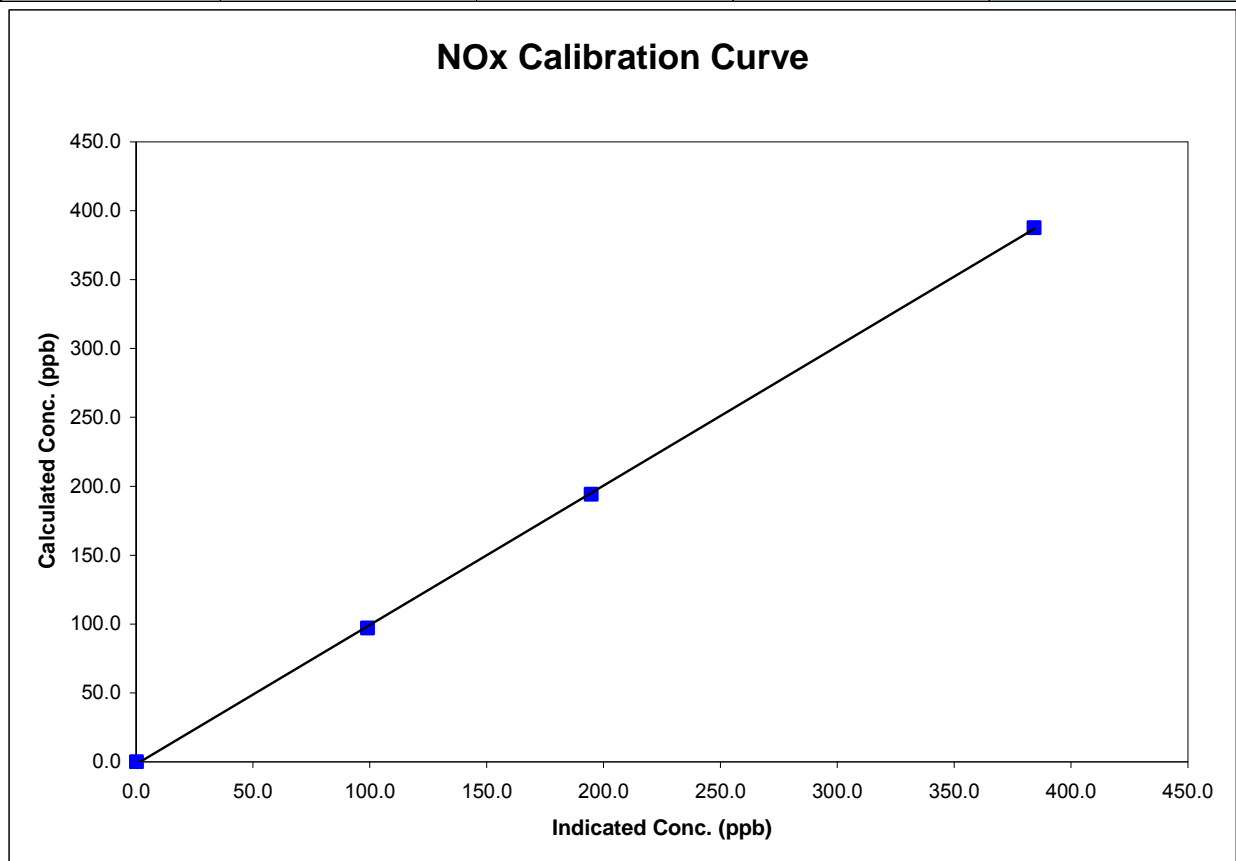
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999926
387.7	384.3	1.0089		
194.2	194.8	0.9969	Slope	1.011255
97.1	99.1	0.9792		
			Intercept	-1.779139



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

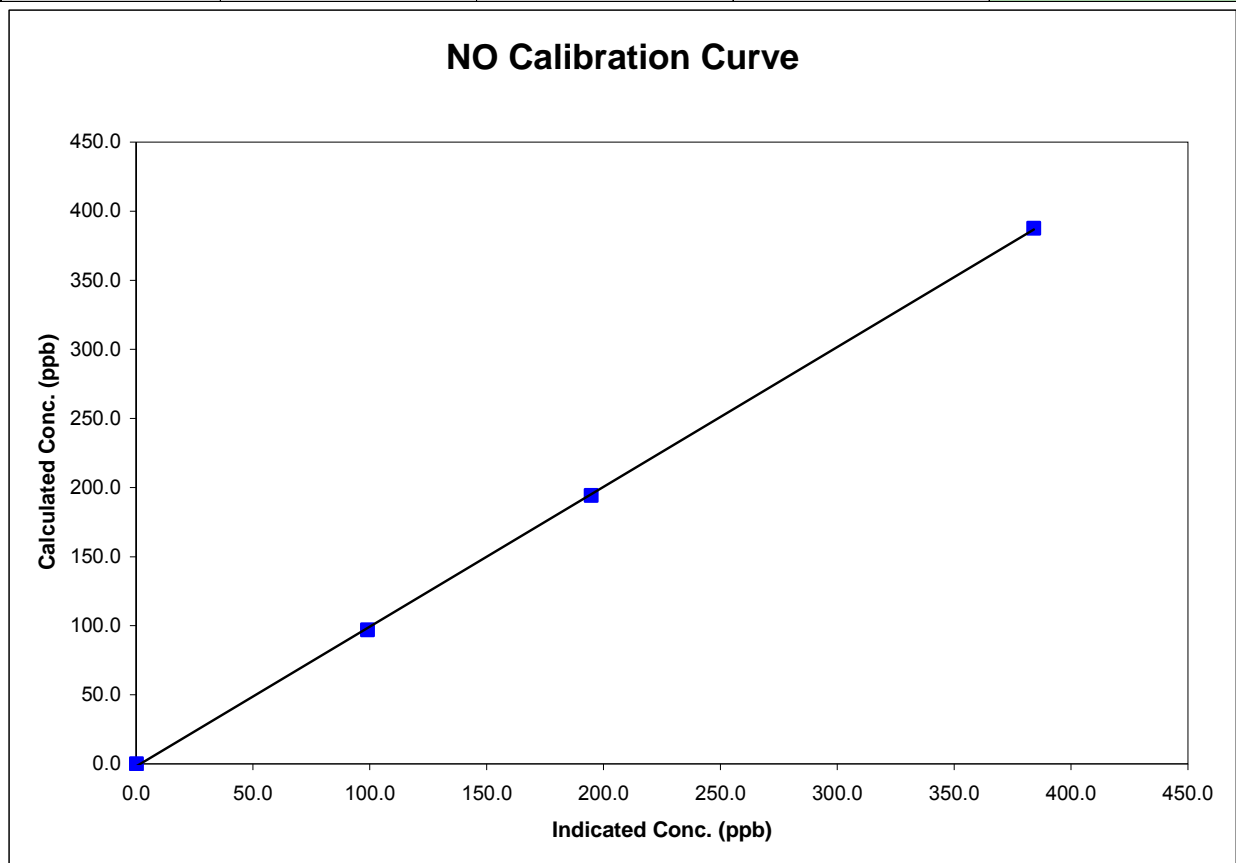


Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999926
387.7	384.2	1.0092		
194.2	194.8	0.9970	Slope	1.011376
97.1	99.0	0.9801		
			Intercept	-1.737032



Calibration Report

Parameter **O3**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>

Start Time (MST)	13:20	End Time (MST)	16:20
Barometric Pressure	0.928 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After

Calculated slope	0.998152	Calculated slope	0.985227
Calculated intercept	-2.098789	Calculated intercept	1.117850

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.7	ppb	-0.6	ppb
slope	1.023		1.023	
O3 Lamp temp	71.1	Deg C	71.1	Deg C
Intensities	98740/78662	mV	99899/79564	mV
Pressure	682.5	inches Hg	691.1	inches Hg
Flow A	664	ccm	669	ccm
Flow B	679	Deg C	685	Deg C

Calibration Data

Referenced concentration (ppb)	Dilution air flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
0	4990	0.0	0.4	N/A
300	4990	301.4	307.2	0.9814
200	4990	212.3	211.6	1.0034
100	4990	117.3	116.8	1.0044
0	4990	0.0	0.4	As found zero
300	4990	297.9	307.2	As found span
Average Correction Factor				0.9964

Calculated value of As Found Response: 304.1 ppm Percent Change of As Found: 2.1%

	before calibration		after calibration	
Auto zero	-1.9	ppb	1.7	ppb
Auto span	495.7	ppb	492.5	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

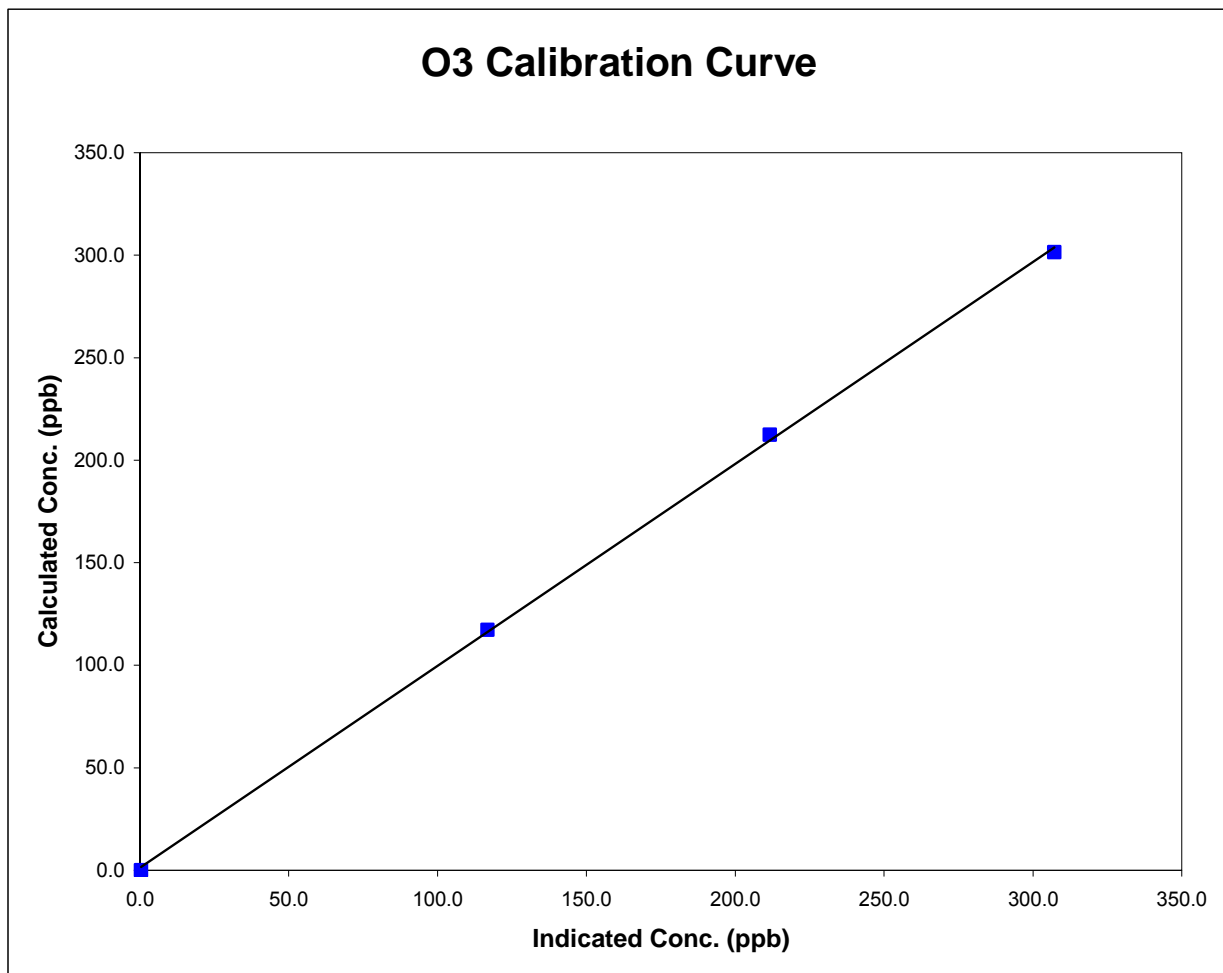
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

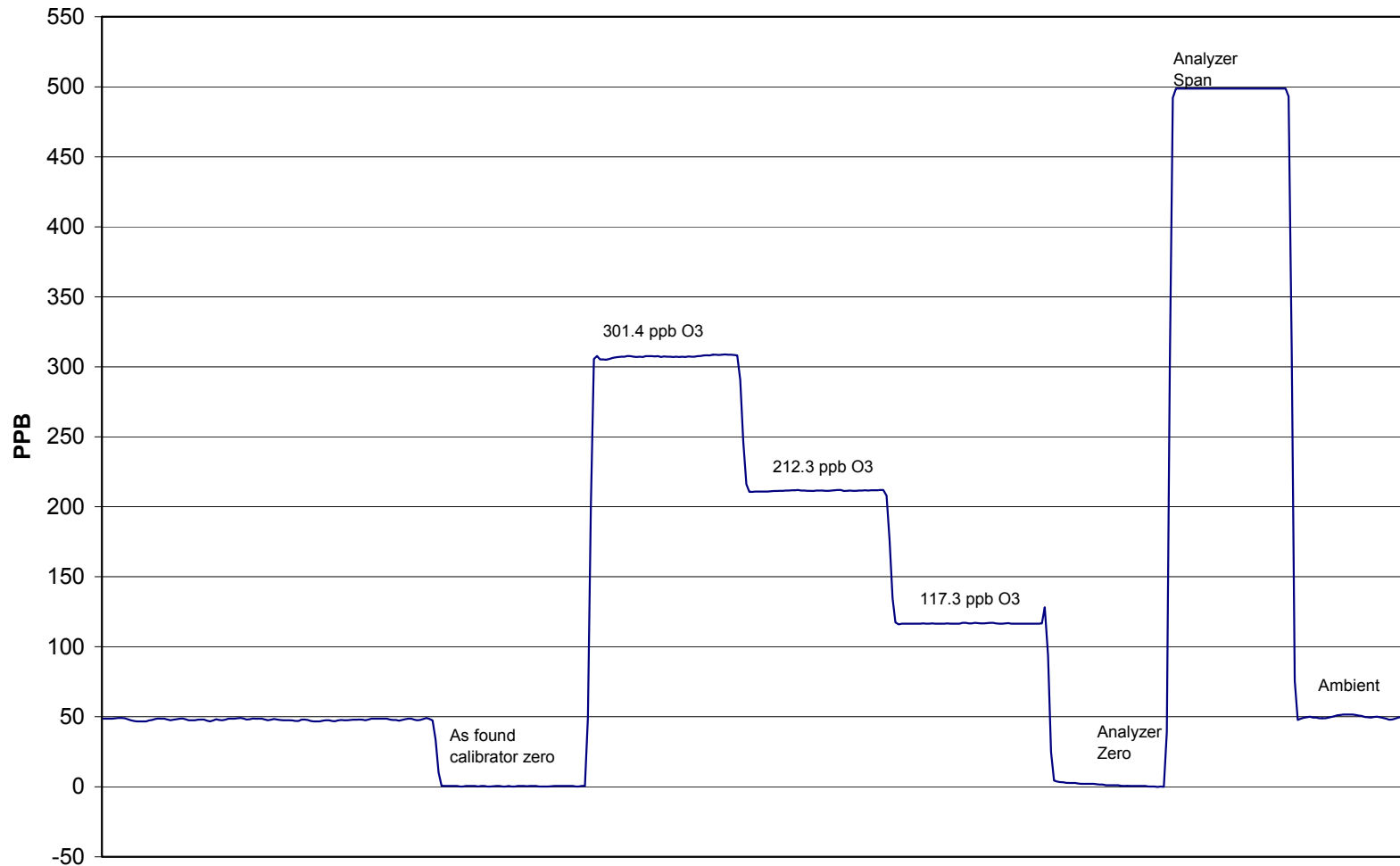
Calibration Date	April 9, 2008	Previous Calibration	March 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:20	End Time (MST)	16:20
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	NA		
301.4	307.2	0.9814	Correlation Coefficient	0.999672
212.3	211.6	1.0034		
117.3	116.8	1.0044	Slope	0.985227
			Intercept	1.117850



Henry Pirker O₃ Calibration



April 9, 2008

Calibration Report



Parameter **CO**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 10, 2008	Previous Calibration	March 5, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:50	End Time (MST)	15:30
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.003609	Calculated slope	1.006779
Calculated intercept	0.043124	Calculated intercept	-0.039969
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.017		1.017	
CO zero setting	-0.095		.808	
Sample pressure	683.1	mm Hg	687.9	mm Hg
Sample Flow	1.13	LPM	1.13	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	0.02	N/A
4991	39.86	23.77	23.65	1.0049
4991	19.92	11.93	11.85	1.0067
4991	9.92	5.95	6.01	0.9902
4991	0.00	0.00	0.91	As Found Zero
4991	39.86	23.77	25.59	As Found Span
Average Correction Factor				1.0006

Calculated value of As Found Response: 24.806 ppm Percent Change of As Found: -4.4%

	before calibration		after calibration	
Auto zero	-0.06	ppm	-0.03	ppm
Auto span	19.94	ppm	20.12	ppm

Notes: Adjusted Zero

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **CO**
 Air Monitoring Network **PASZA**

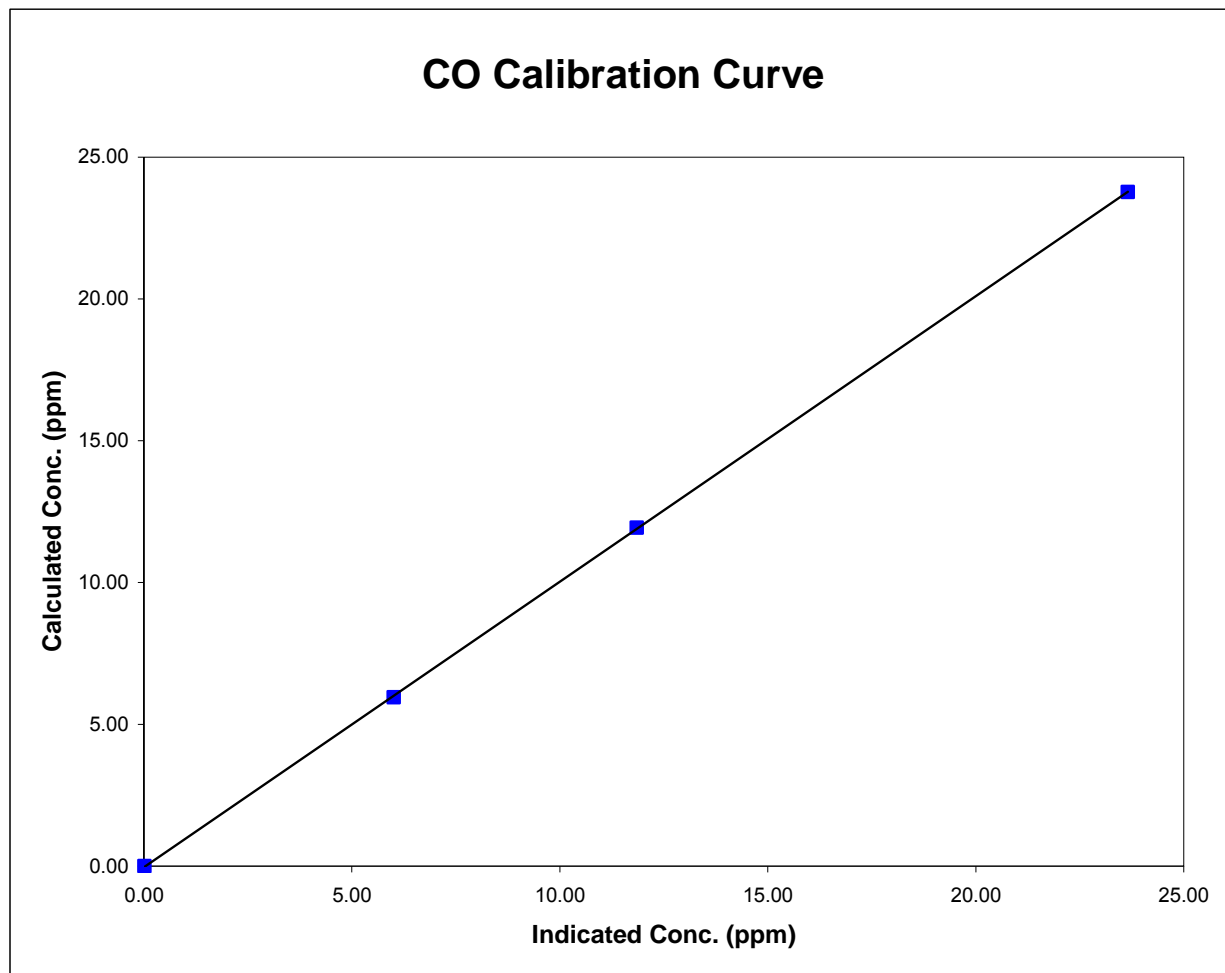


Station Information

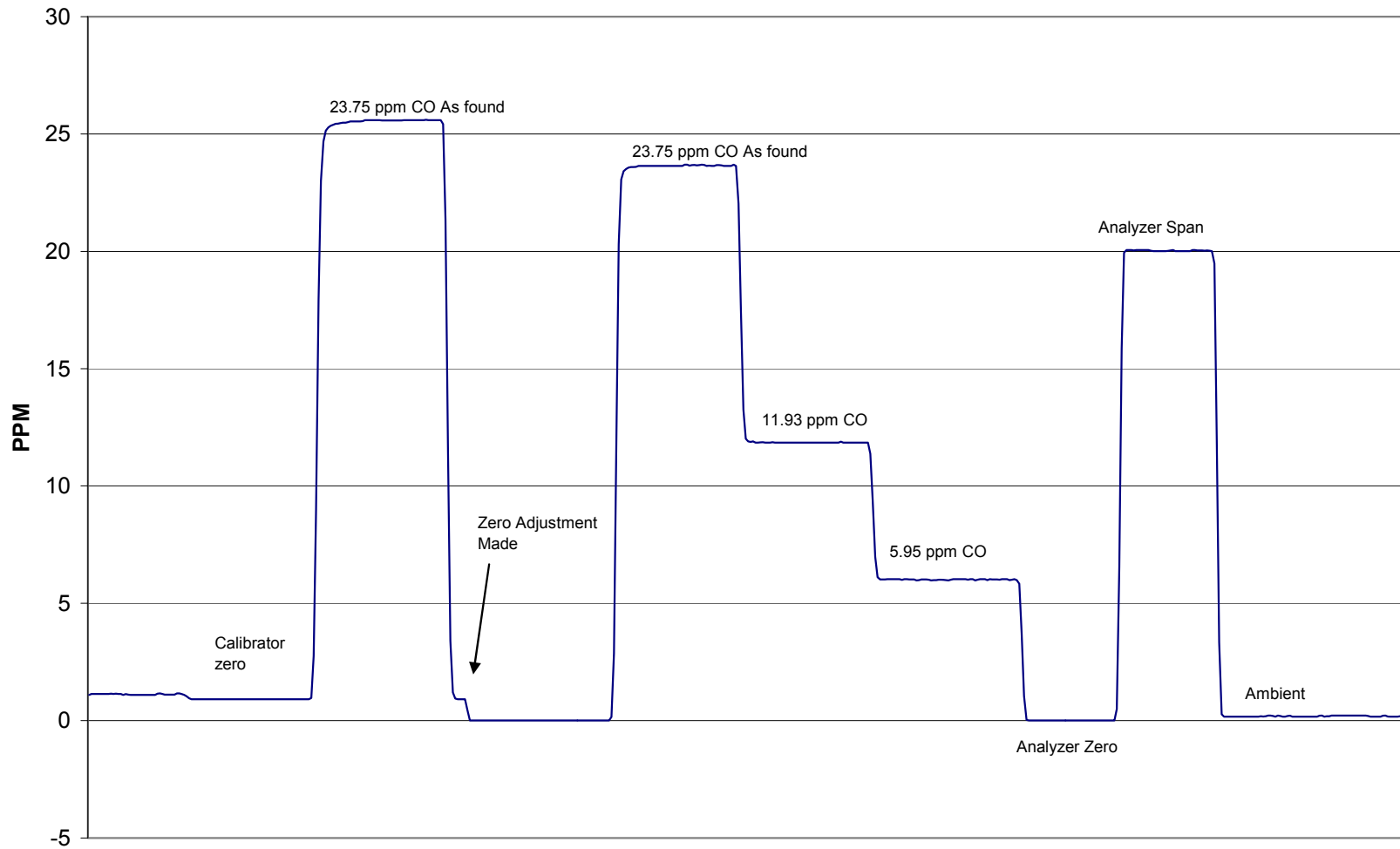
Calibration Date	April 10, 2008	Previous Calibration	March 5, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:50	End Time (MST)	15:30
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.015	N/A		
23.769	23.653	1.0049	Correlation Coefficient	0.999982
11.926	11.847	1.0067		
5.951	6.010	0.9902	Slope	1.006779
			Intercept	-0.039969



Henry Pirker CO Calibration



April 10, 2008

Calibration Report

Parameter **THC**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 11, 2008	Previous Calibration	March 7, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:30	End Time (MST)	13:50
Barometric Pressure	0.937 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.990375	Calculated slope	0.995056
Calculated intercept	0.575651	Calculated intercept	-0.053949
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.07	psi	6.11	psi
THC span counts	6921	capture	7170	capture
THC zero counts	1378	capture	1121	capture

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.00	0.04	N/A
4990	69.79	21.00	21.17	0.9918
4990	29.88	9.06	9.11	0.9943
4990	9.92	3.02	3.13	0.9639
4990	0.00	0.00	1.78	As Found Zero
4990	64.92	19.55	22.85	As Found Span
Average Correction Factor				0.9834

Calculated value of As Found Response: 21.442 ppm Percent Change of As Found: -9.7%

	before calibration		after calibration	
Auto zero	0.01	ppm	-0.01	ppm
Auto span	21.77	ppm	23.58	ppm

Notes: Zero Adjustment Made

Calibration Performed By: Conor Whiteley

Calibration Summary

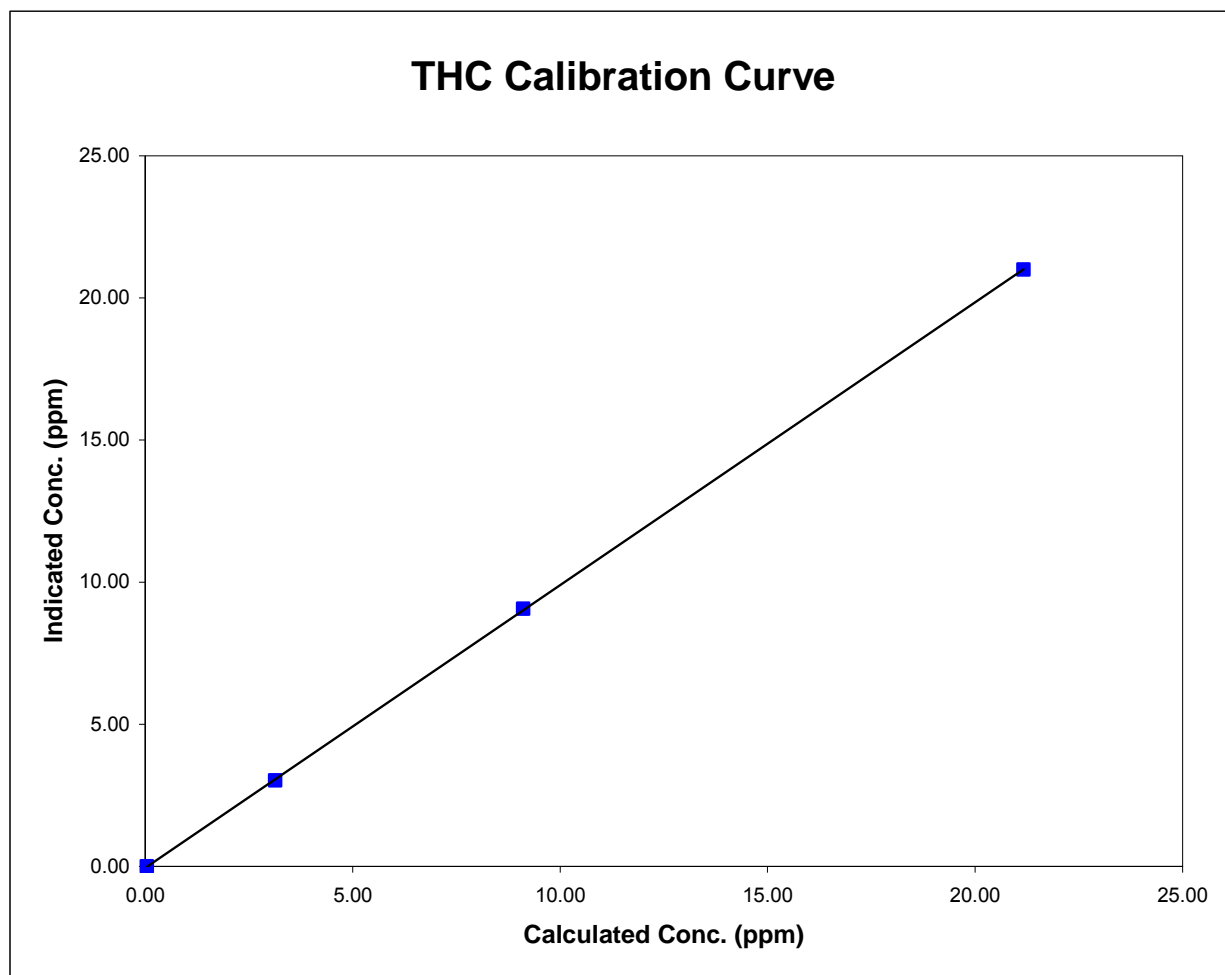
Parameter **THC**Air Monitoring Network **PASZA**

Station Information

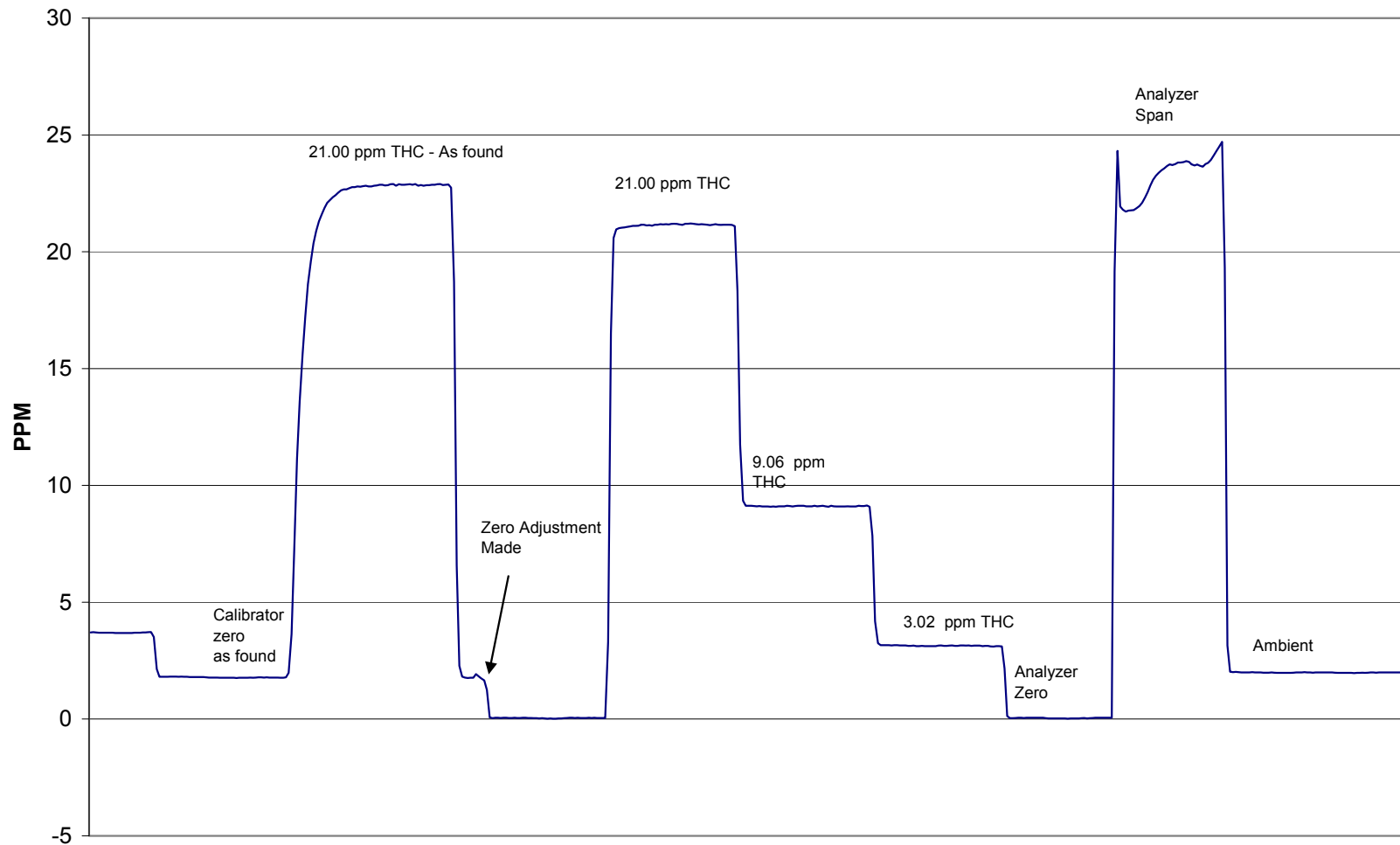
Calibration Date	April 11, 2008	Previous Calibration	March 7, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:30	End Time (MST)	13:50
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.044	N/A		
20.996	21.169	0.9918	Correlation Coefficient	0.999983
9.061	9.113	0.9943		
3.020	3.133	0.9639	Slope	0.995056
			Intercept	-0.053949



Henry Pirker THC Calibration



April 11, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 10, 2008	Previous Calibration	March 7, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:30	End Time (MST)	11:45
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.986664	Calculated slope	0.998447
Calculated intercept	0.339240	Calculated intercept	0.540967
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	17.7		17.9	
Pressure	668.8	mm Hg	657	mm Hg
Flow	464	ccm	459	ccm
Lamp Voltage	851	V	851	V

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.00	-0.62	N/A
4988	69.72	70.85	70.25	1.0085
4988	39.84	40.73	40.55	1.0043
4988	9.93	10.21	9.63	1.0605
4988	0.00	0.00	-0.62	As Found Zero
4988	69.72	70.85	70.25	As Found Span
Average Correction Factor				1.0245

Calculated value of As Found Response: 70.3 ppb Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	-0.17	ppb	-0.13	ppb
Auto span	35.67	ppb	35.90	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

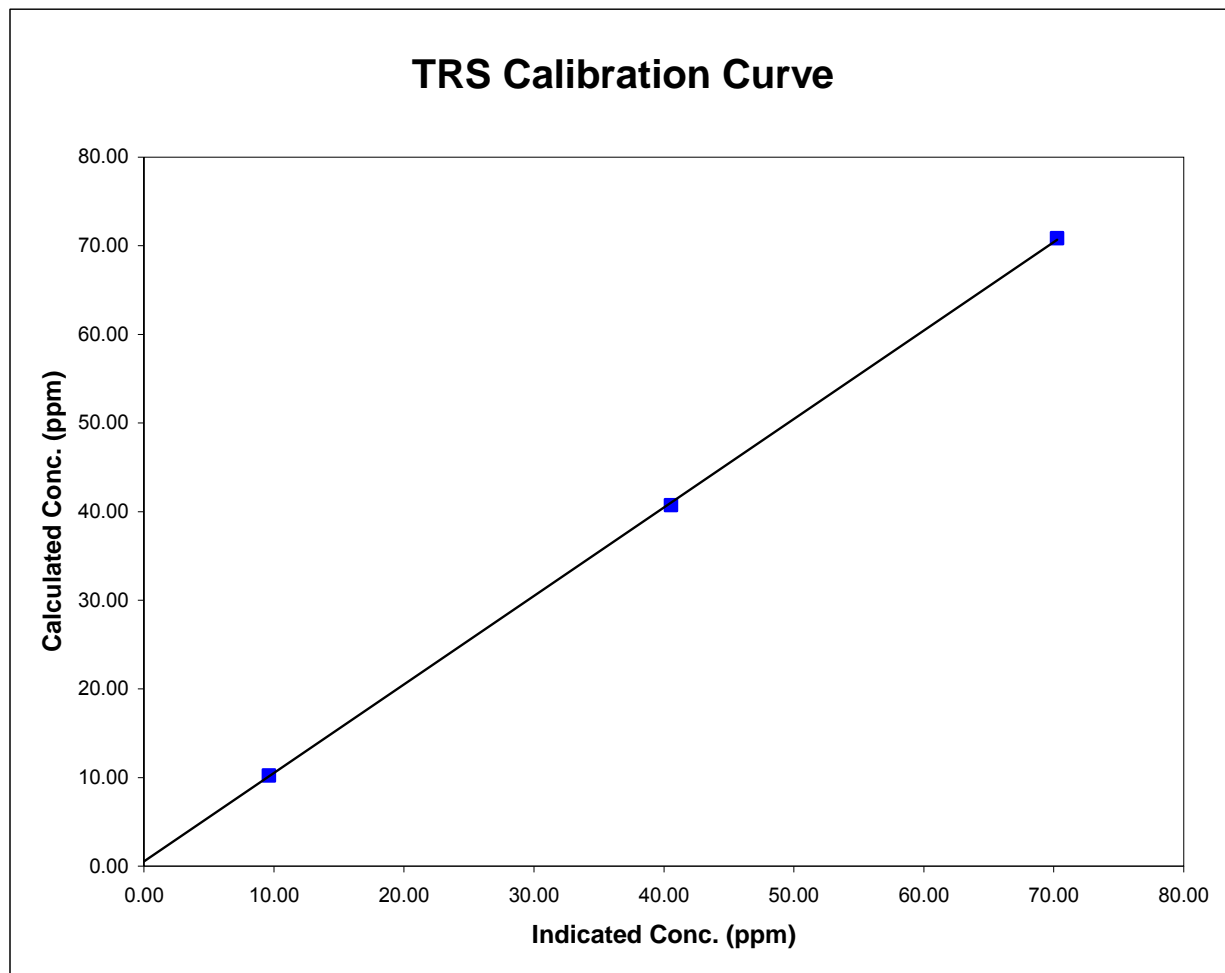
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

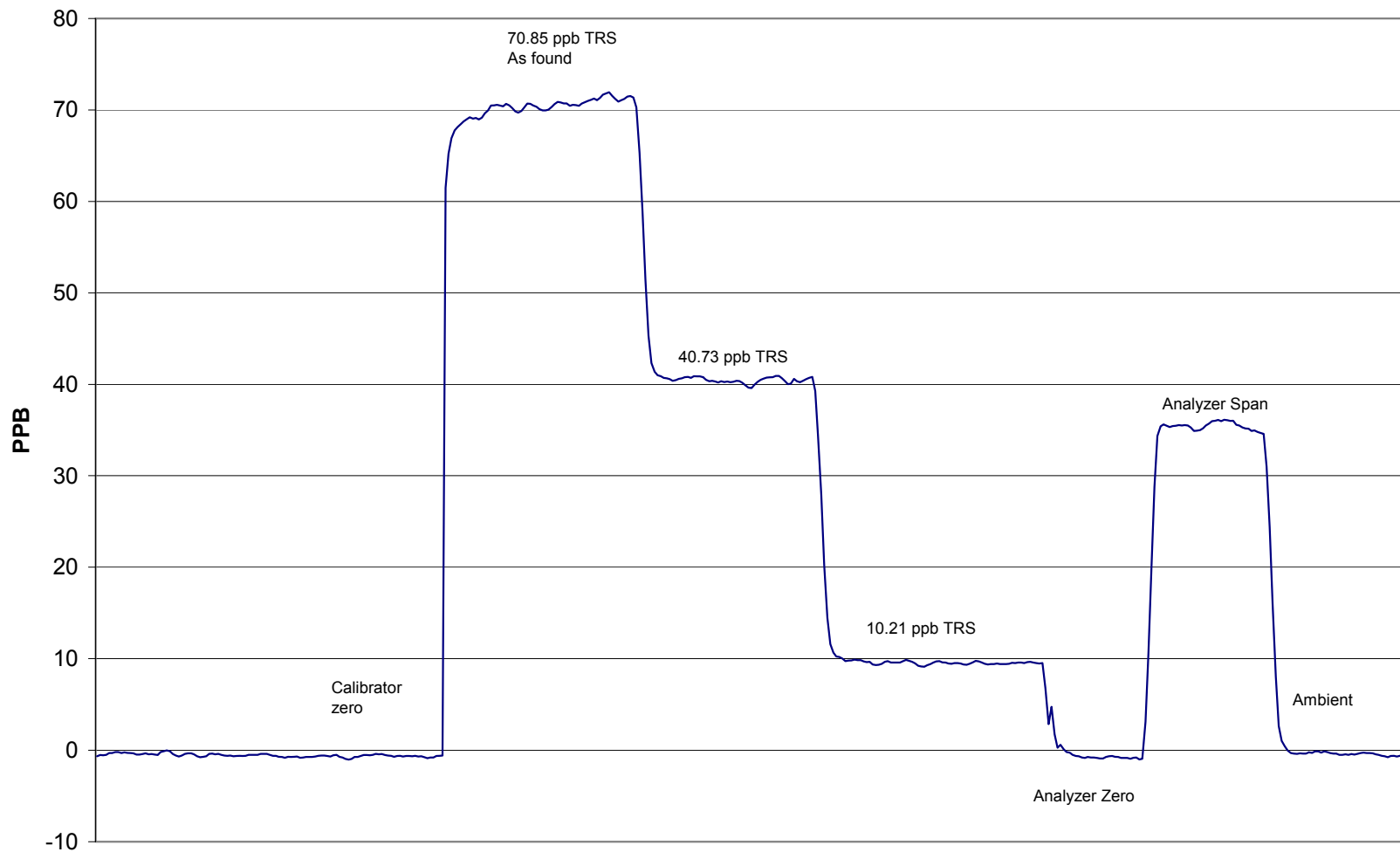
Calibration Date	April 10, 2008	Previous Calibration	March 7, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:30	End Time (MST)	11:45
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.620	N/A		
70.854	70.255	1.0085	Correlation Coefficient	0.999958
40.729	40.553	1.0043		
10.212	9.630	1.0605	Slope	0.998447
			Intercept	0.540967



Henry Pirker TRS Calibration



April 10, 2008

Calibration Report



Parameter **SO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 16, 2008	Previous Calibration	March 12, 2008
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:10	End Time (MST)	13:00
Barometric Pressure	0.915 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031103	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.012875	Calculated slope	1.022118
Calculated intercept	-2.061360	Calculated intercept	-2.224314
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.9		9	
coefficient	0.928		0.928	
Lamp Voltage	836	volts	837	volts
Chamber Temp	45.3	Deg C	45	Deg C
Perm Gas Temp	45.01	Deg C	44.25	Deg C
Pressure	665.6	mm Hg	659.5	mm Hg
Sample Flow	447	ccm	440	ccm
Lamp Intensity	90	%	89	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.00	1.0	N/A
4990	39.82	398.21	391.2	1.0180
4990	19.93	200.10	198.5	1.0078
4990	9.91	99.70	100.8	0.9887
4990	0.0	0.00	1.0	As Found Zero
4990	39.8	398.21	391.2	As Found Span
Average Correction Factor				1.0048

Calculated value of As Found Response: 393.098 ppm Percent Change of As Found: 1.3%

	before calibration		after calibration	
Auto zero	-1.1	ppm	-1.2	ppm
Auto span	273.7	ppm	275.3	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

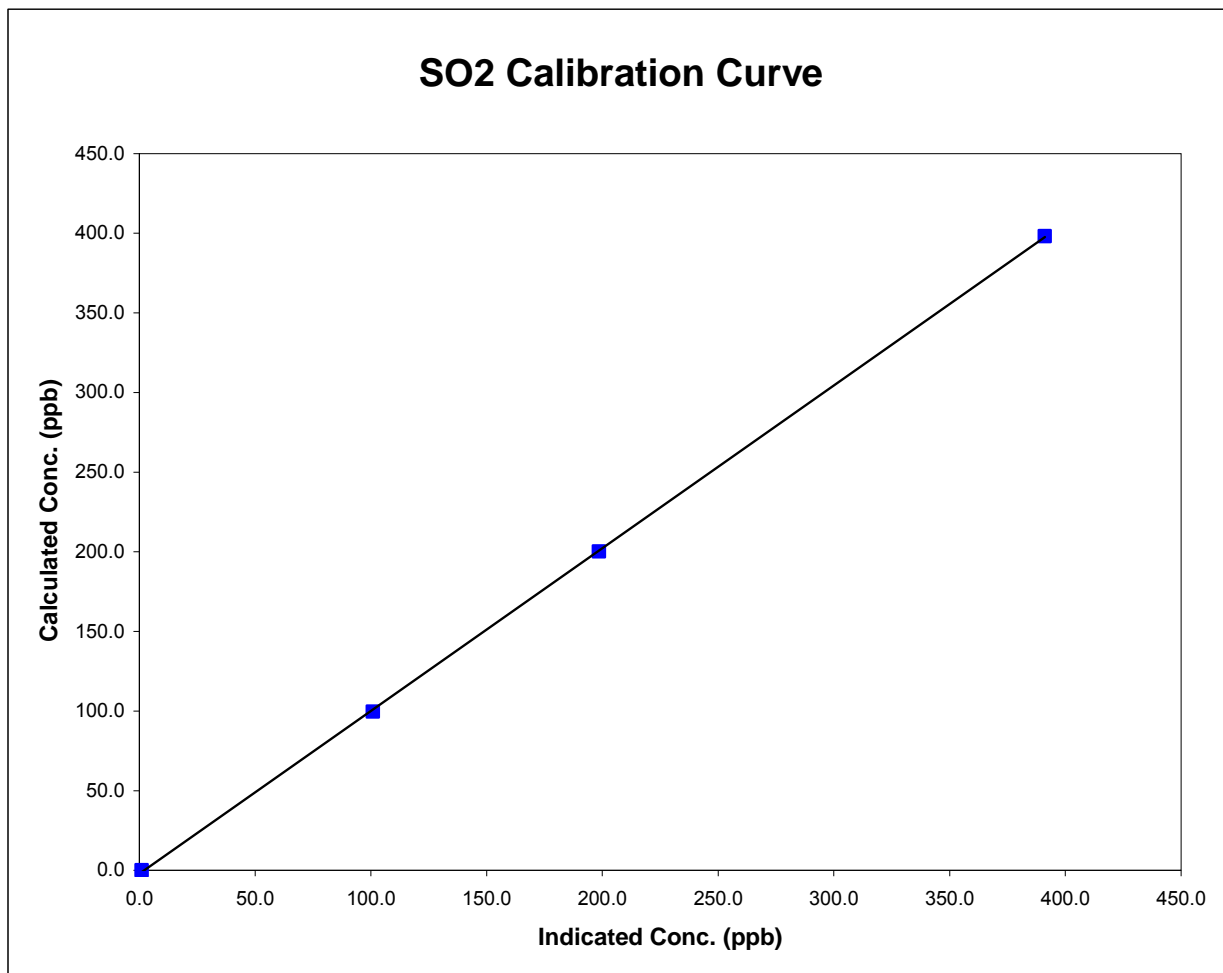
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

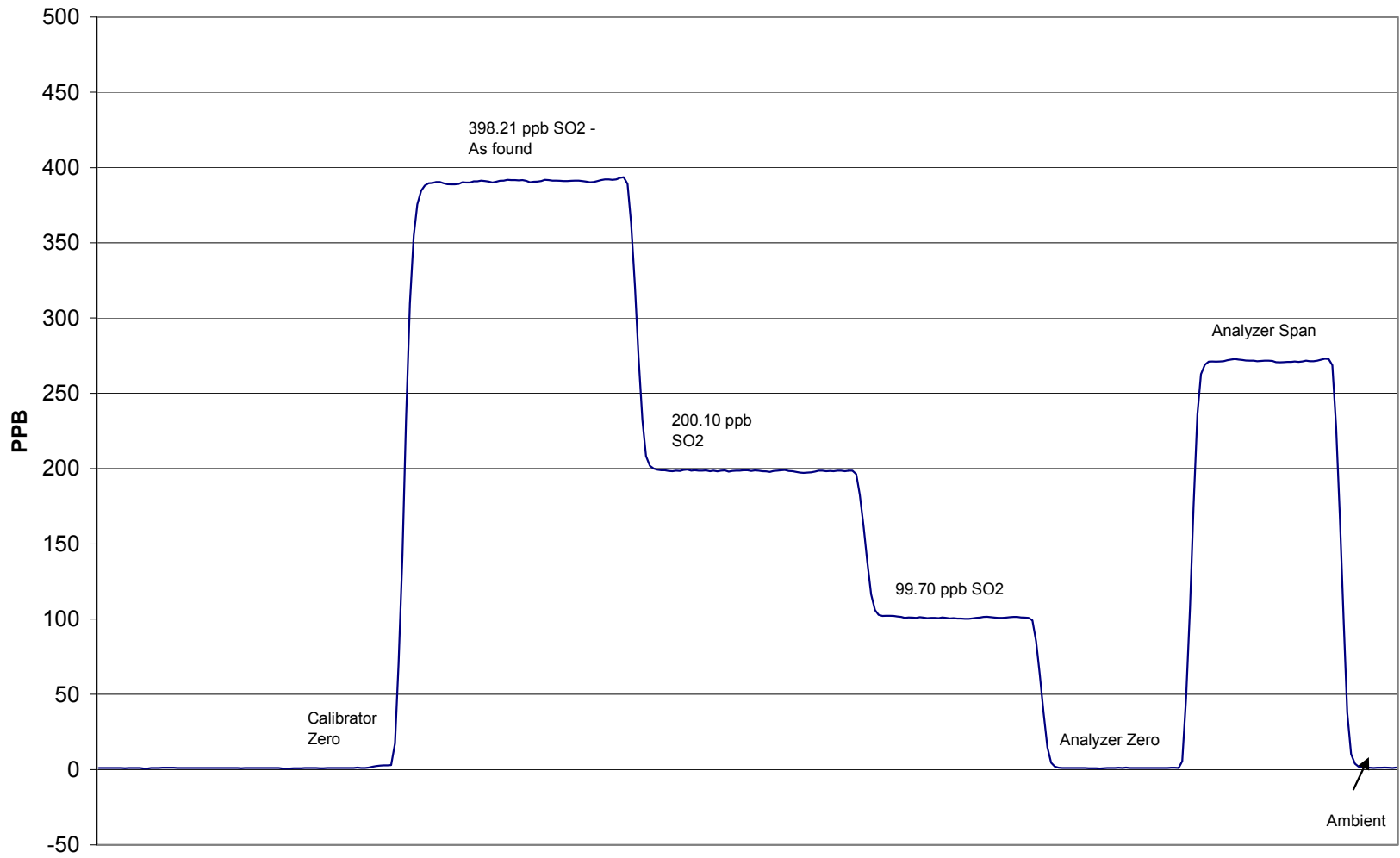
Calibration Date	April 16, 2008	Previous Calibration	March 12, 2008
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:10	End Time (MST)	13:00
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	N/A		
398.2	391.2	1.0180	Correlation Coefficient	0.999961
200.1	198.5	1.0078		
99.7	100.8	0.9887	Slope	1.022118
			Intercept	-2.224314



Evergreen Park SO₂ Calibration



April 16, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 16, 2007	Previous Calibration	March 12, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:10	End Time (MST)	14:45
Barometric Pressure	0.915 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031103	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.996670	Calculated slope	0.985036
Calculated intercept	1.039243	Calculated intercept	0.997579
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	15.2	ppb	15.2	ppb
coefficient	0.616		0.616	
Lamp Voltage	825	volts	823	volts
Chamber Temp	44.3	Deg C	44.2	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	628.6	mm Hg	626.4	mm Hg
Sample Flow	464	ccm	462	ccm
Lamp Intensity	45,749	mv	45,127	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.00	-0.9	N/A
4990	79.77	80.88	81.1	0.9977
4990	39.83	40.70	40.4	1.0076
4990	9.90	10.18	9.2	1.1079
4990	0.00	0.00	-0.9	As Found Zero
4990	79.77	80.88	81.1	As Found Span
Average Correction Factor				1.0377

Calculated value of As Found Response: 82.77 ppm Percent Change of As Found: -2.3%

	before calibration		after calibration	
Auto zero	-0.1	ppm	0.0	ppm
Auto span	71.1	ppm	70.8	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

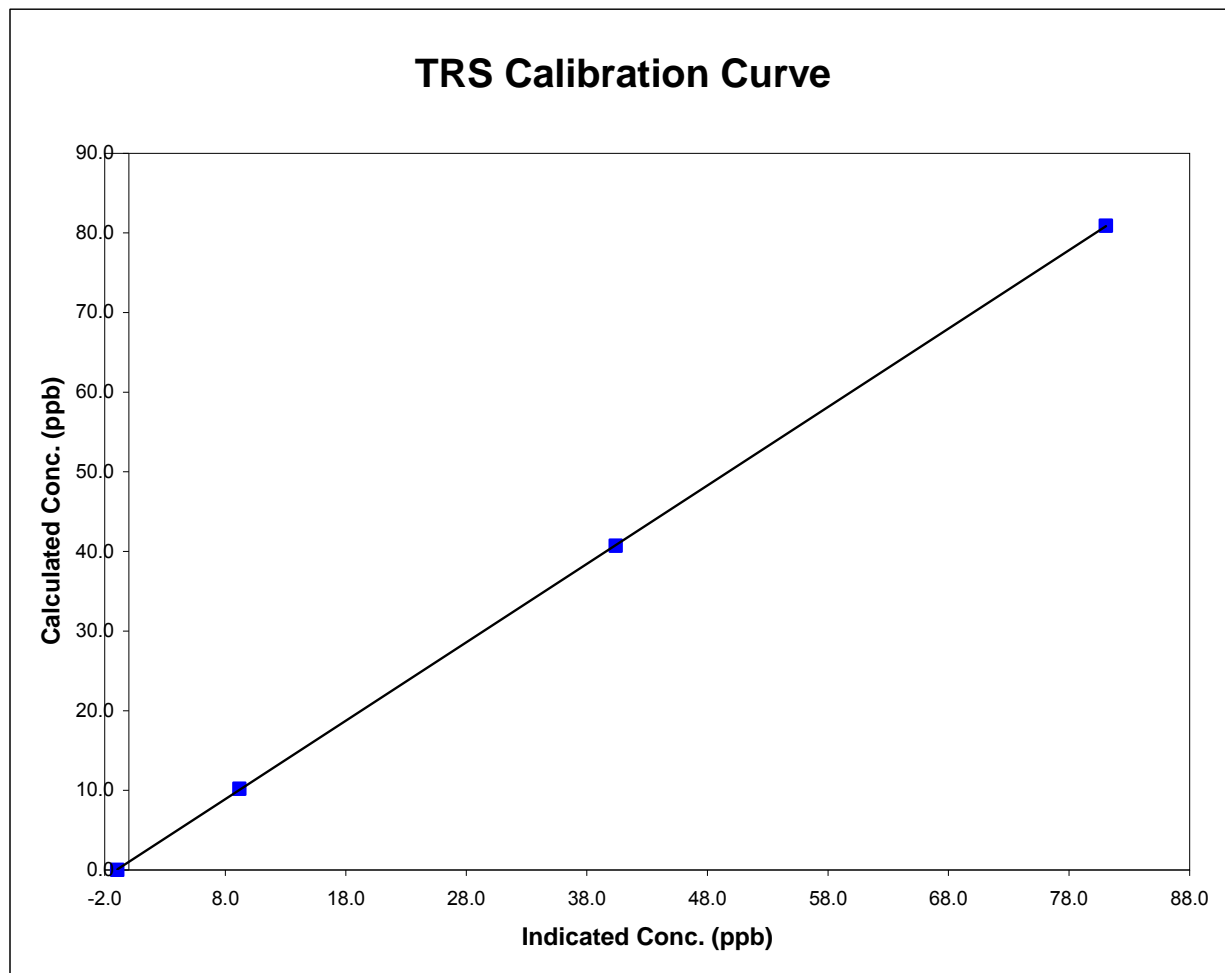
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

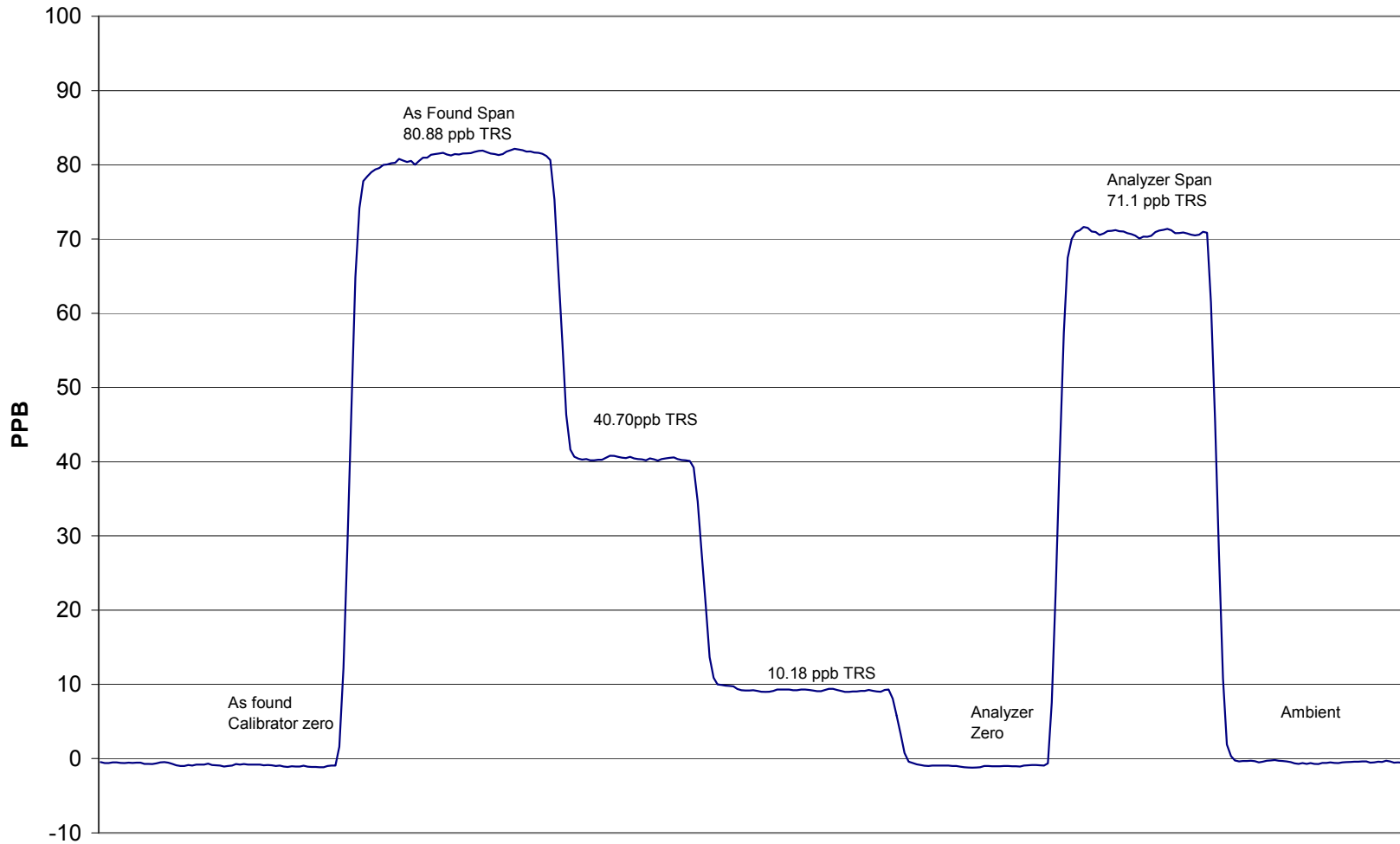
Calibration Date	April 16, 2007	Previous Calibration	March 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:10	End Time (MST)	14:45
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.9	N/A		
80.9	81.1	0.9977	Correlation Coefficient	0.999992
40.7	40.4	1.0076		
10.2	9.2	1.1079	Slope	0.985036
			Intercept	0.997579



Evergreen Park TRS Calibration



March 12, 2007

Calibration Report



Parameter **SO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 18, 2008	Previous Calibration	March 19, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:30	End Time (MST)	13:50
Barometric Pressure	0.932 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031681	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.006995	Calculated slope	0.998342
Calculated intercept	-1.523902	Calculated intercept	-1.802778
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background coefficient	6.4		6.4	
Lamp Voltage	0.722		0.722	
Chamber Temp	940	volts	937	volts
Perm Gas Temp	44.9	Deg C	45.1	Deg C
Pressure	45	Deg C	45	Deg C
Sample Flow	663.7	mm Hg	678	mm Hg
Lamp Intensity	441	ccm	450	ccm
	87	%	87	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.0	0.00	0.5	N/A
4989	39.83	398.39	400.2	0.9955
4989	19.93	200.14	202.9	0.9863
4988	9.94	100.04	103.3	0.9681
4988	0.0	0.00	0.5	As Found Zero
4988	39.92	399.37	400.2	As Found Span
Average Correction Factor				0.9833

Calculated value of As Found Response: 400.959 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	-1.2	ppm	-1.5	ppm
Auto span	311.1	ppm	303.8	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

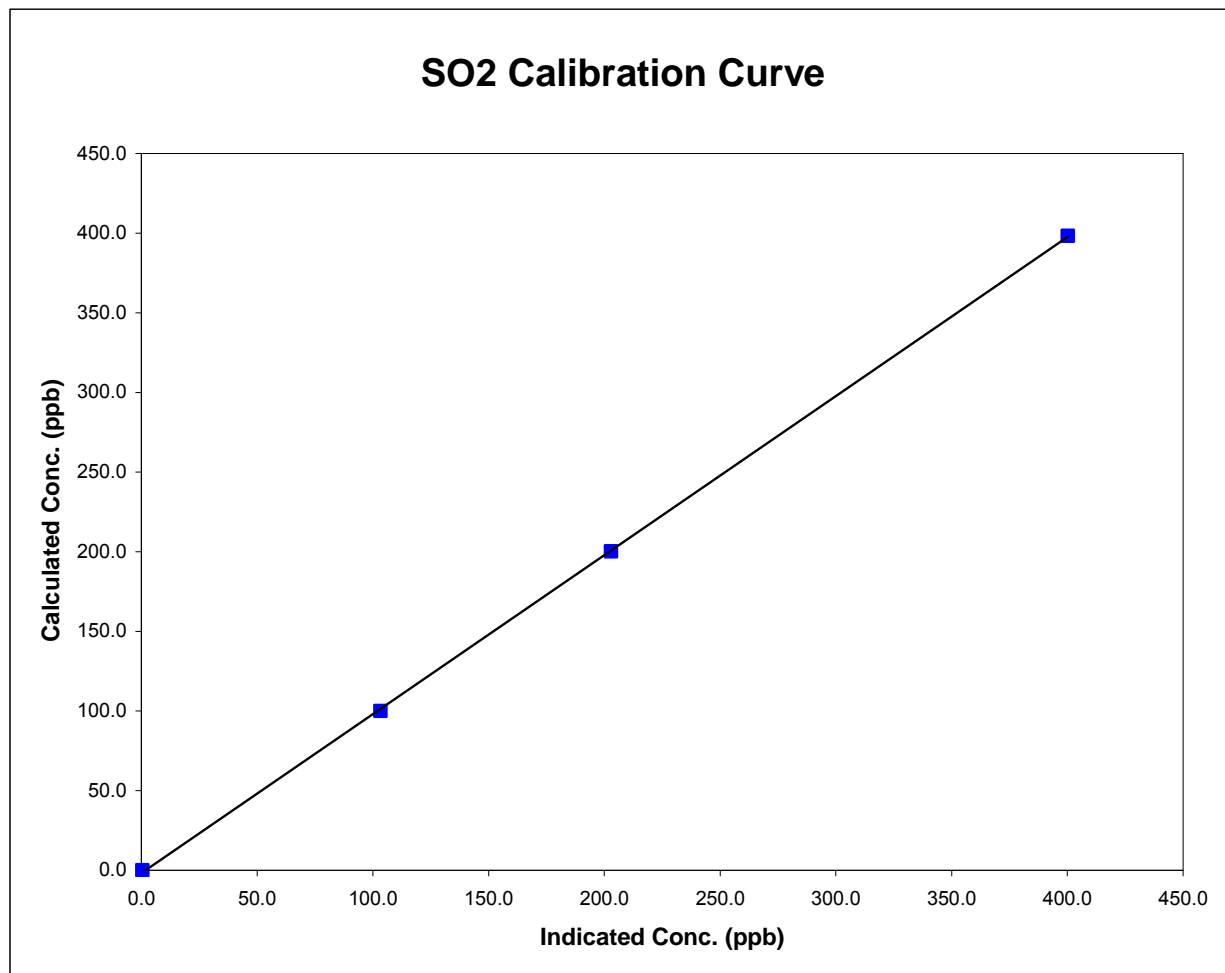
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

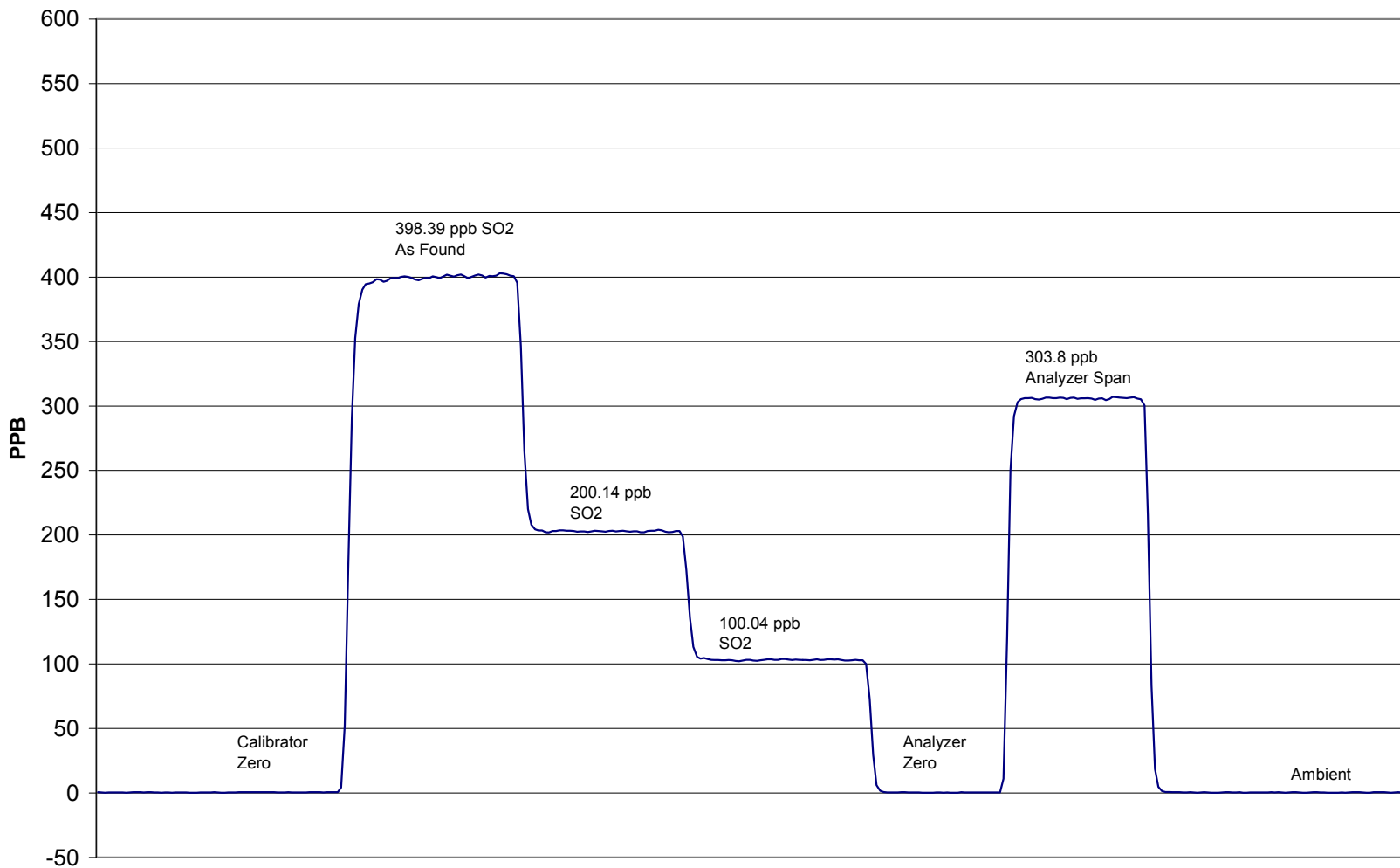
Calibration Date	April 18, 2008	Previous Calibration	March 19, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:30	End Time (MST)	13:50
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
398.4	400.2	0.9955	Correlation Coefficient	0.999951
200.1	202.9	0.9863		
100.0	103.3	0.9681	Slope	0.998342
			Intercept	-1.802778



Smoky Heights SO₂ Calibration



April 18, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 18, 2008	Previous Calibration	March 19, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	9:50	End Time (MST)	12:20
Barometric Pressure	0.932 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031681	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.022138	Calculated slope	1.008691
Calculated intercept	-0.846310	Calculated intercept	-0.916765
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.3	ppb	11.5	ppb
coefficient	1.006		1.006	
Lamp Voltage	772	volts	772	volts
Chamber Temp	44	Deg C	43.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	496.6	mm Hg	482.4	mm Hg
Sample Flow	764	ccm	750	ccm
Lamp Intensity	32,537	mv	32,422	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.00	0.8	N/A
4990	79.76	80.87	81.0	0.9987
4988	39.83	40.72	41.5	0.9815
4990	9.95	10.23	11.1	0.9226
4988	0.0	0.00	0.8	As Found Zero
4990	79.76	80.87	81.0	As Found Span
Average Correction Factor				0.9676

Calculated value of As Found Response: 81.12 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	0.0	ppm	-0.1	ppm
Auto span	43.2	ppm	41.7	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

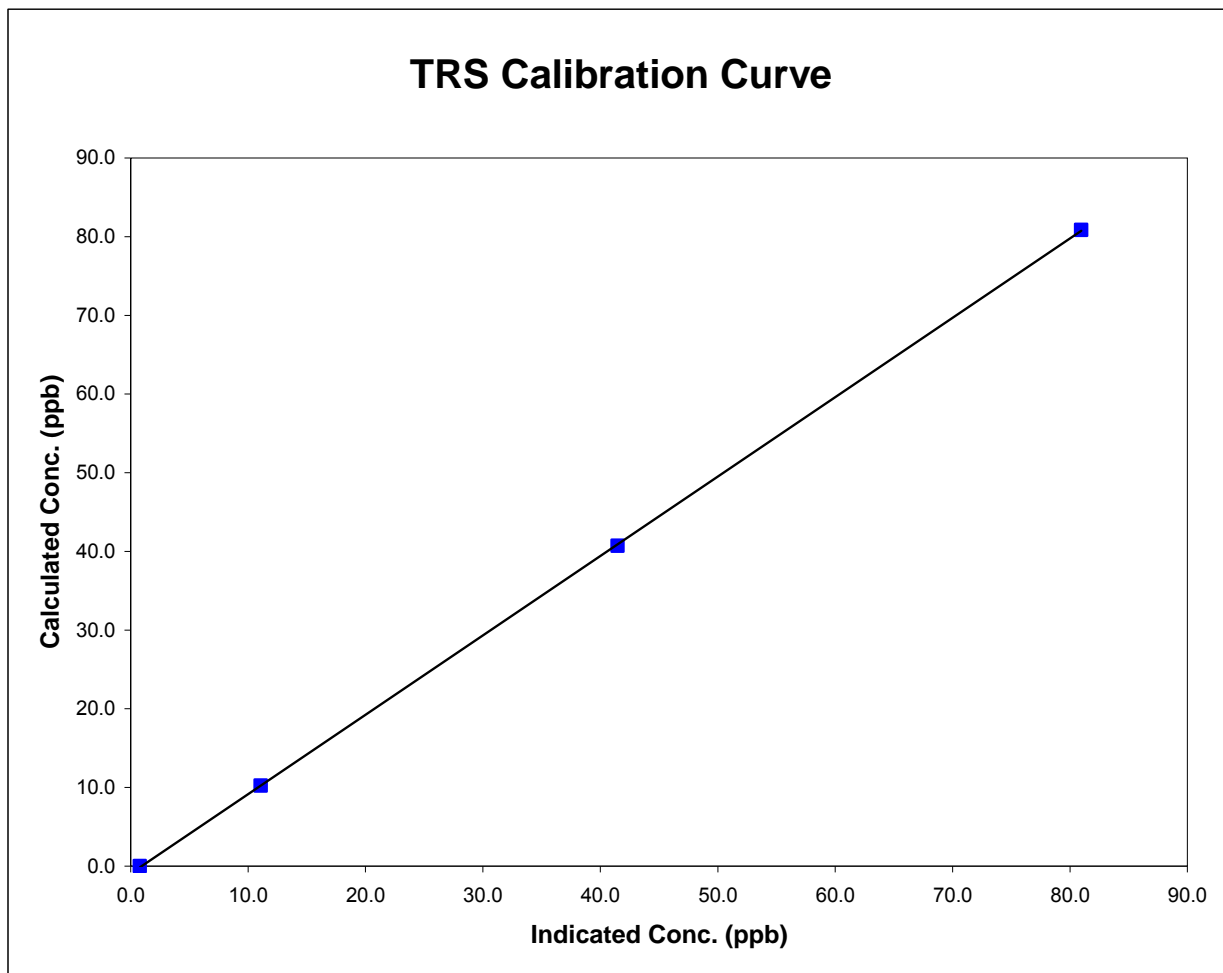
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

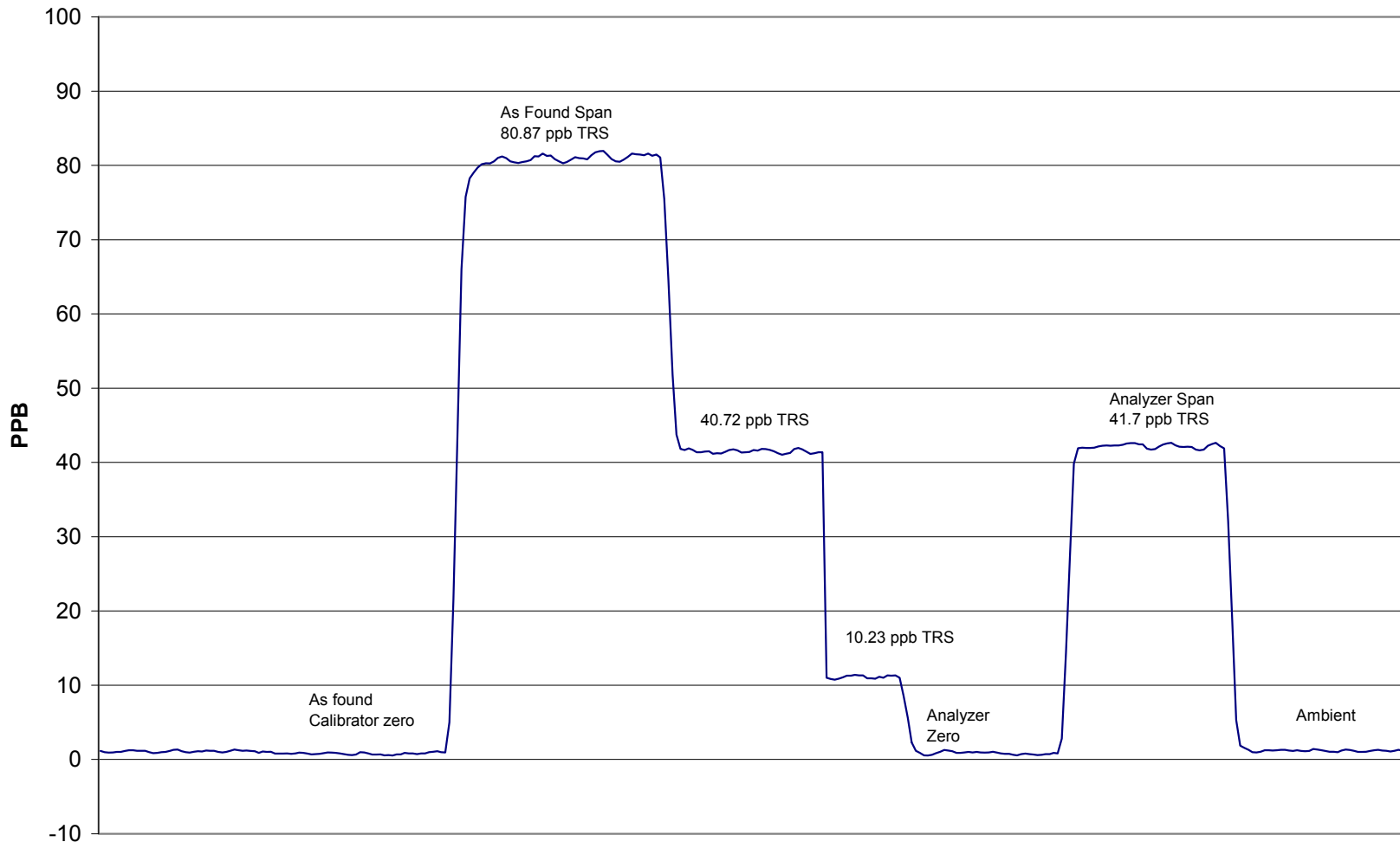
Calibration Date	April 18, 2008	Previous Calibration	March 19, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	9:50	End Time (MST)	12:20
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	N/A		
80.9	81.0	0.9987	Correlation Coefficient	0.999981
40.7	41.5	0.9815		
10.2	11.1	0.9226	Slope	1.008691
			Intercept	-0.916765



Smoky Heights TRS Calibration



April 18, 2008

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 18, 2008	Previous Calibration	January 15, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:50	End Time (MST)	11:20
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	na		na	
Temperature	9.3	Deg C	9.3	Deg C
Pressure	0.921	ATM	0.93	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxiliary	0.0	0.00		0.01
flow recovery - main	45 - 60 Seconds	35	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	45
Temperature	measured	-7.5	+/- 1.0 Deg C	-6.9
Pressure	measured	0.928	+/- 1.5% ΔATM	0.927
Total Flow	16.67 SLPM	16.65		16.52
Main Flow	13.67 SLPM	3.07	+/- 1.0 SLPM	3.01
Auxiliary Flow	3.0 SLPM	13.790	+/- 0.2 SLPM	13.530
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.01	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Replaced FilterCalibration Performed By: Conor Whiteley

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 23, 2008	Previous Calibration	April 18, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:00	End Time (MST)	13:00
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	na		na	
Temperature	9.3	Deg C	9.3	Deg C
Pressure	0.921	ATM	0.93	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxiliary	0.0	0.00		0.00
flow recovery - main	45 - 60 Seconds	32	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	45
Temperature	measured	0.5	+/- 1.0 Deg C	0.4
Pressure	measured	0.932	+/- 1.5% ΔATM	0.929
Total Flow	16.67 SLPM	16.64		16.52
Main Flow	13.67 SLPM	3.01	+/- 1.0 SLPM	3.01
Auxiliary Flow	3.0 SLPM	13.600	+/- 0.2 SLPM	13.530
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.01	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Replaced filter despite low load, seems to be improperly seated, using different batch of filters

Calibration Performed By: Conor Whiteley

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:50	End Time (MST)	13:50
Barometric Pressure	0.911 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.984884	Calculated slope	0.999348
Calculated intercept	-0.610164	Calculated intercept	-0.268946
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.68		2.57	
Coefficient	0.99		0.95	
PMT	-812	V	-812	V
UV Lamp Voltage	1032	V	1040	V
Chamber Temp	45	Deg C	44.8	Deg C
Pressure	662.5	mm Hg	667	mm Hg
Sample Flow	0.467	LPM	0.472	LPM
Lamp Intesity	85%	%	85%	%

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.0	N/A
4990	39.86	79.7	79.8	0.9986
4989	19.93	40.0	40.6	0.9856
4988	9.94	20.0	20.5	0.9748
4990	0.00	0.0	0.0	As found zero
4990	39.86	79.7	82.2	As found span
Average Correction Factor				0.9863

Calculated value of As Found Response: 80.406 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	-0.8	ppm	-0.4	ppm
Auto span	55.4	ppm	54.1	ppm

Notes: Adjusted SO2

Calibration Performed By: Conor Whiteley

Calibration Summary

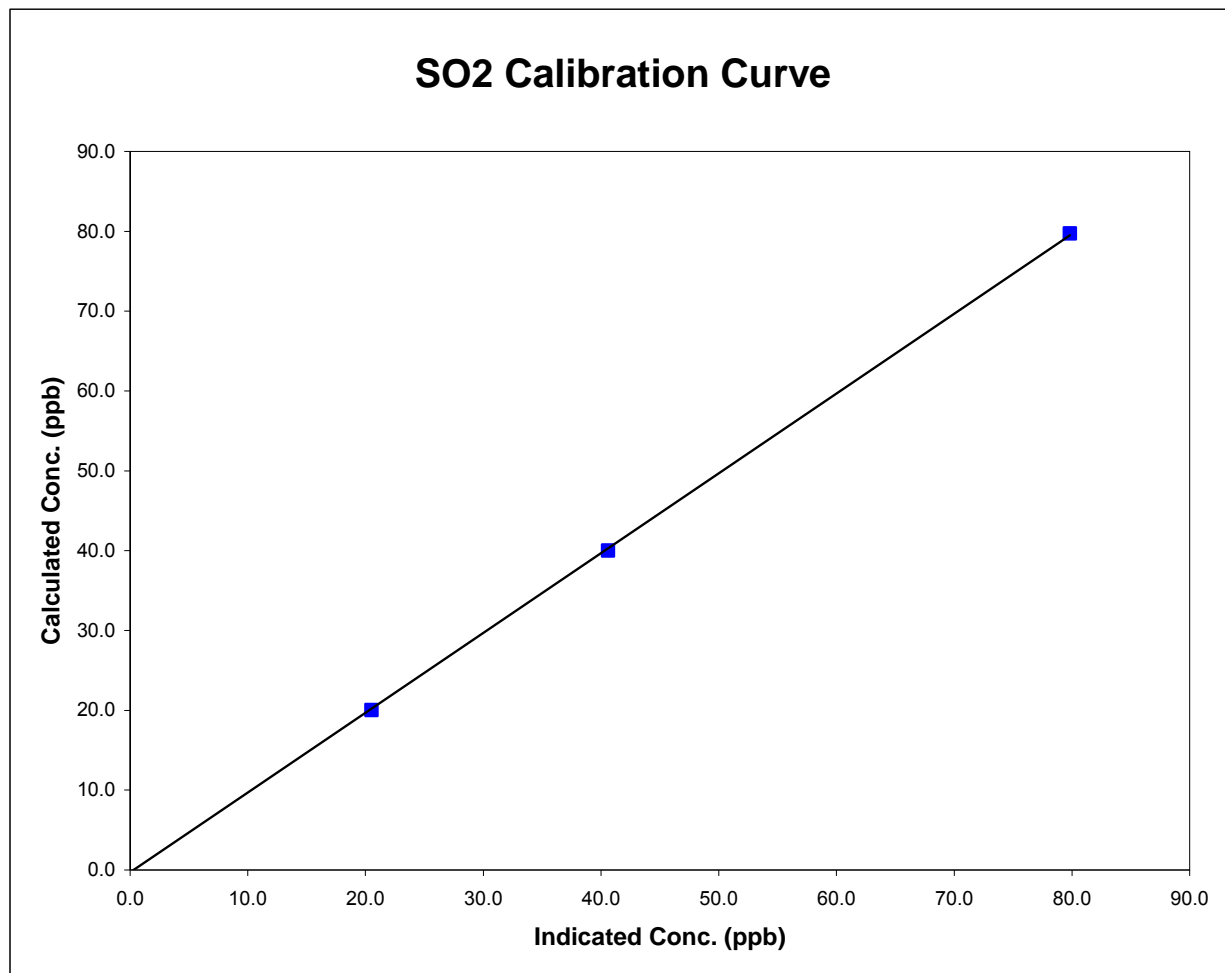
Parameter **SO2**Air Monitoring Network **PASZA**

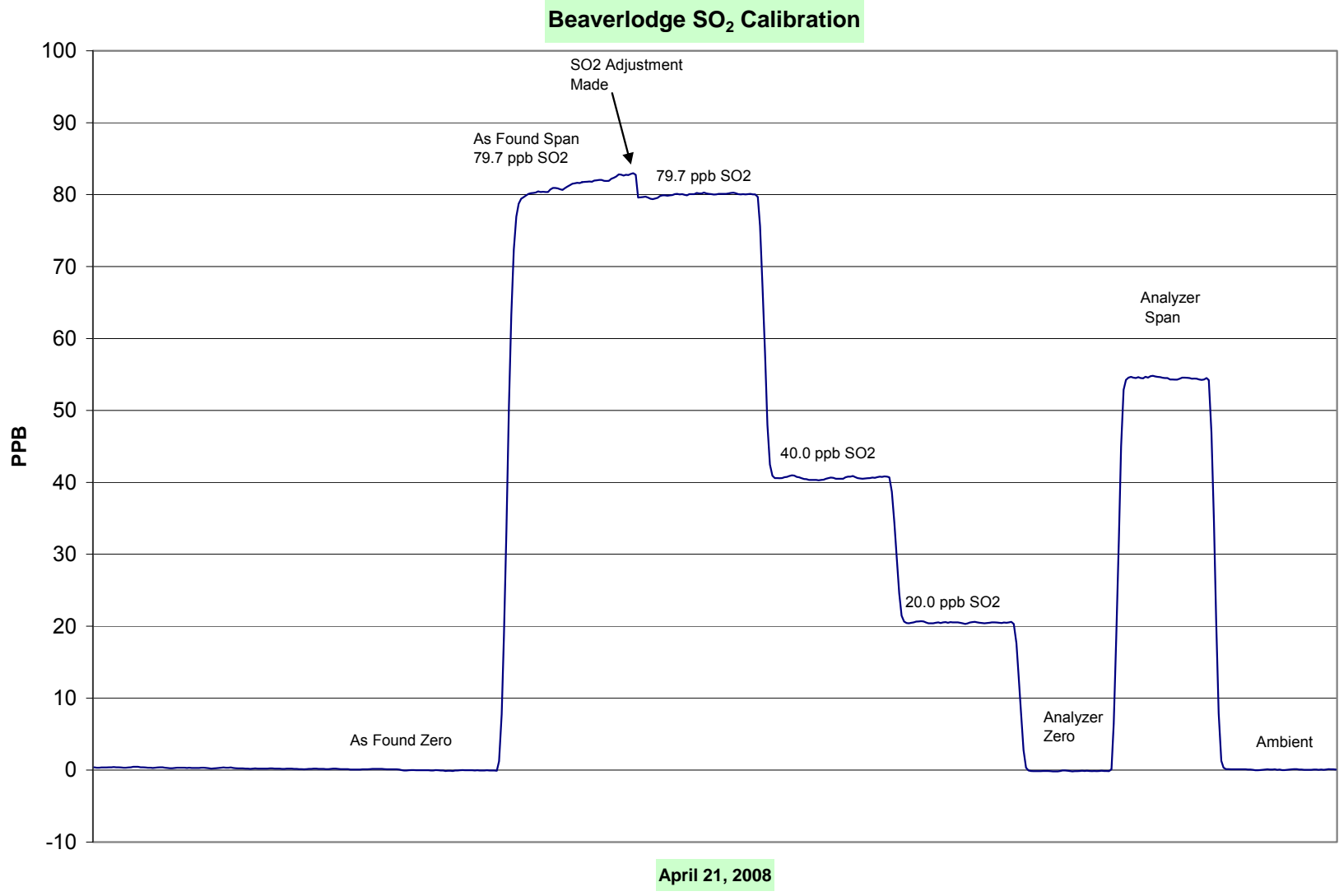
Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:50	End Time (MST)	13:50
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
79.7	79.8	0.9986	Correlation Coefficient	0.999919
40.0	40.6	0.9856		
20.0	20.5	0.9748	Slope	0.999348
			Intercept	-0.268946





Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	10:50:00	End Time (MST)	15:50:00
Barometric Pressure	0.911 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	50.1 ppm	Cal Gas Cert. Date	2-Jan-07
NOx Cal Gas Conc	50.2 ppm	Cal Gas Serial #	CC 114395

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.012097	1.007891	0.999005
	Data Offset	1.285719	-0.969304	-1.041474
After	Data Slope	1.011158	1.003492	0.995705
	Data Offset	0.421096	-1.940839	-1.827959
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model TEI Model 42 Analyzer serial # 42-28486-231

Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO background	1.3	ppb	1.3	mV
NOx background	1.3	ppb	1.3	mV
NO coefficient	1.034		1.074	
NOx coefficient	0.999		0.999	
PMT Voltage	-636	V	-636	V
Chamber Temp	49.3	Deg C	49.2	Deg C
Cooler Temp	-2.0	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	0.791	LPM	0.798	LPM
Ozonator Flow	0.085	LPM	0.085	LPM
Pressure	170.8	mm Hg	176.2	mm Hg

Notes: Adjusted NO

Calibration Report

Parameter **NO_x-NO-NO₂**
 Air Monitoring Network **PASZA**



Station Information

Calibration Date: **April 21, 2008** Station Location: **Beaverlodge**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	N/A	N/A
1	4990	39.86	397.8	397.0	0.8	396.9	399.2	-2.6	1.0023	0.9947
2	4990	19.91	199.5	199.1	0.4	202.8	203.8	-1.3	0.9837	0.9771
3	4990	9.93	99.7	99.5	0.2	102.8	103.4	-0.7	0.9695	0.9627
AFZ	4990	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.0000	0.0000
AFS	4990	39.86	397.8	397.0	0.8	383.5	0.2	1.1	1.0373	1847.6697
Average Correction Factor									0.9852	0.9782

As Found Concentrations: NO_x= 382.8 NO= -0.5 As Found Percent Change NO_x= -3.8% NO= -100.1%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 ccm

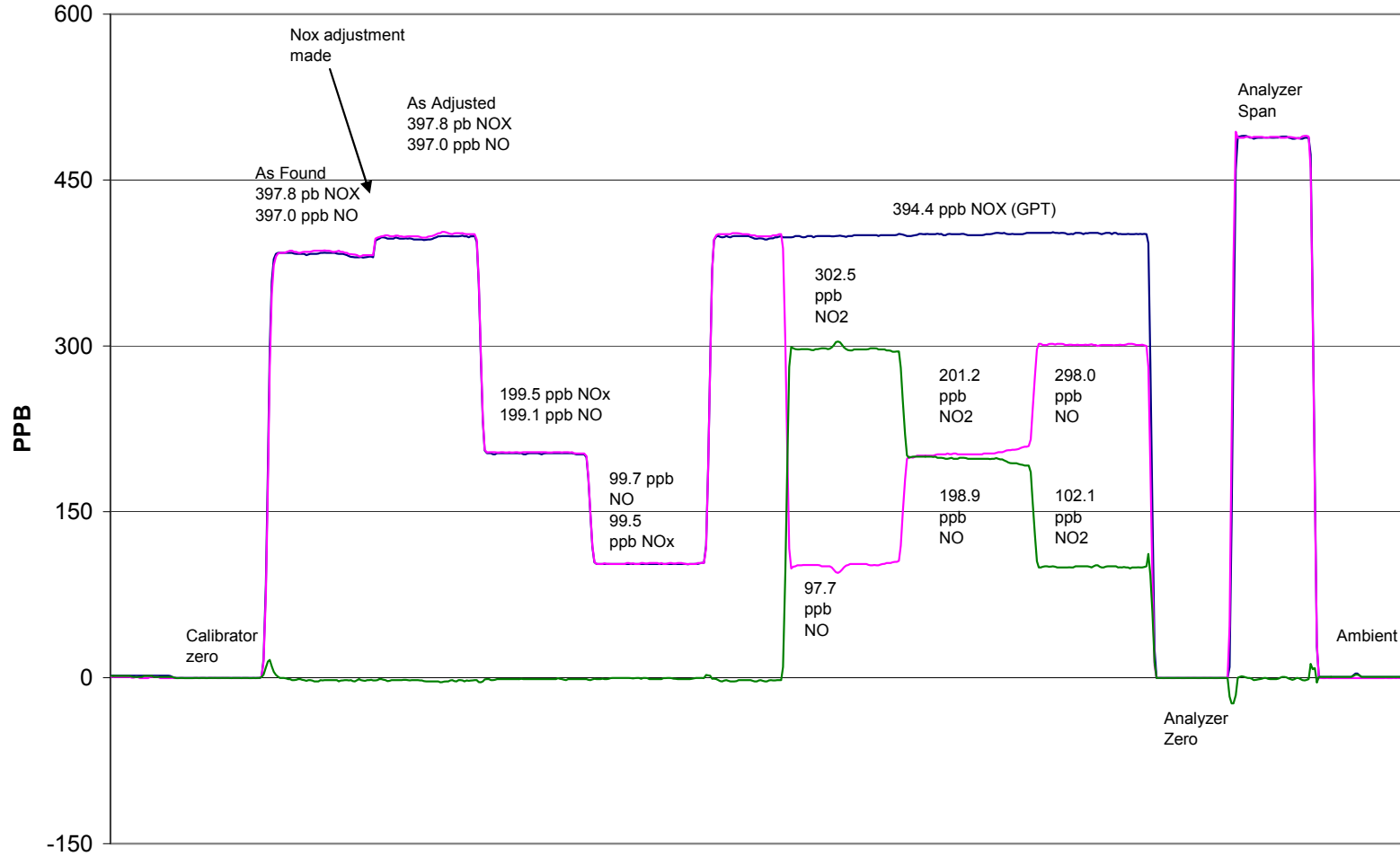
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	400.1	397.4	2.7	398.6	401.0	-2.7	1.0038	0.9911	N/A	N/A
300	400.1	97.7	302.5	399.1	99.9	298.6	1.0026	0.9774	1.0129	98.7%
200	400.1	198.9	201.2	401.1	201.6	198.9	0.9976	0.9866	1.0115	98.9%
100	400.1	298.0	102.1	401.8	301.1	100.2	0.9958	0.9896	1.0191	98.1%
Average Correction Factor							0.9987	0.9846	1.0145	98.6%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.2	1.0	-1.4	ppb	-2.1	0.2	-2.1	ppb
Auto span	478.6	-1.4	476.4	ppb	488.3	-0.4	484.7	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



April 21, 2008

Calibration Summary

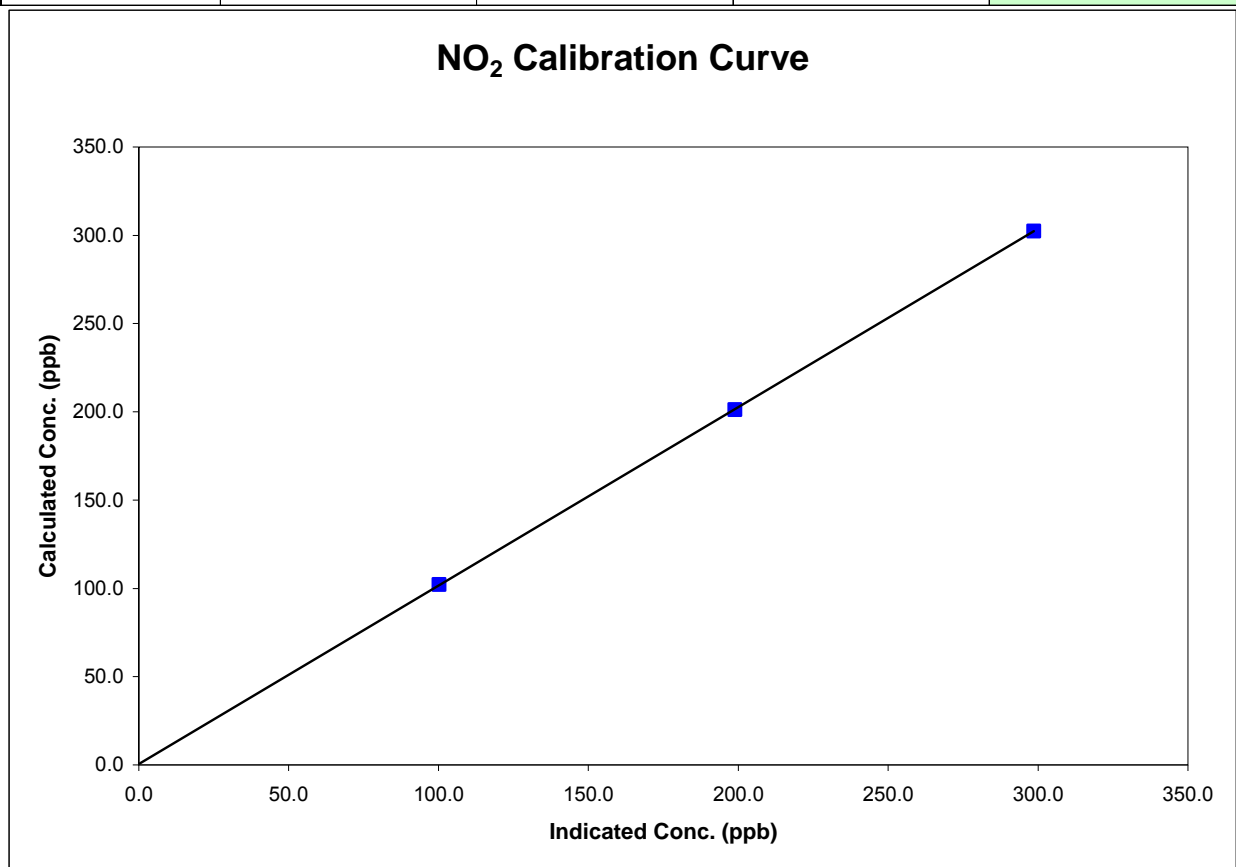
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:50	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000		
302.5	298.6	1.0129	Correlation Coefficient	0.999994
201.2	198.9	1.0115		
102.1	100.2	1.0191	Slope	1.011158
			Intercept	0.421096



Calibration Summary

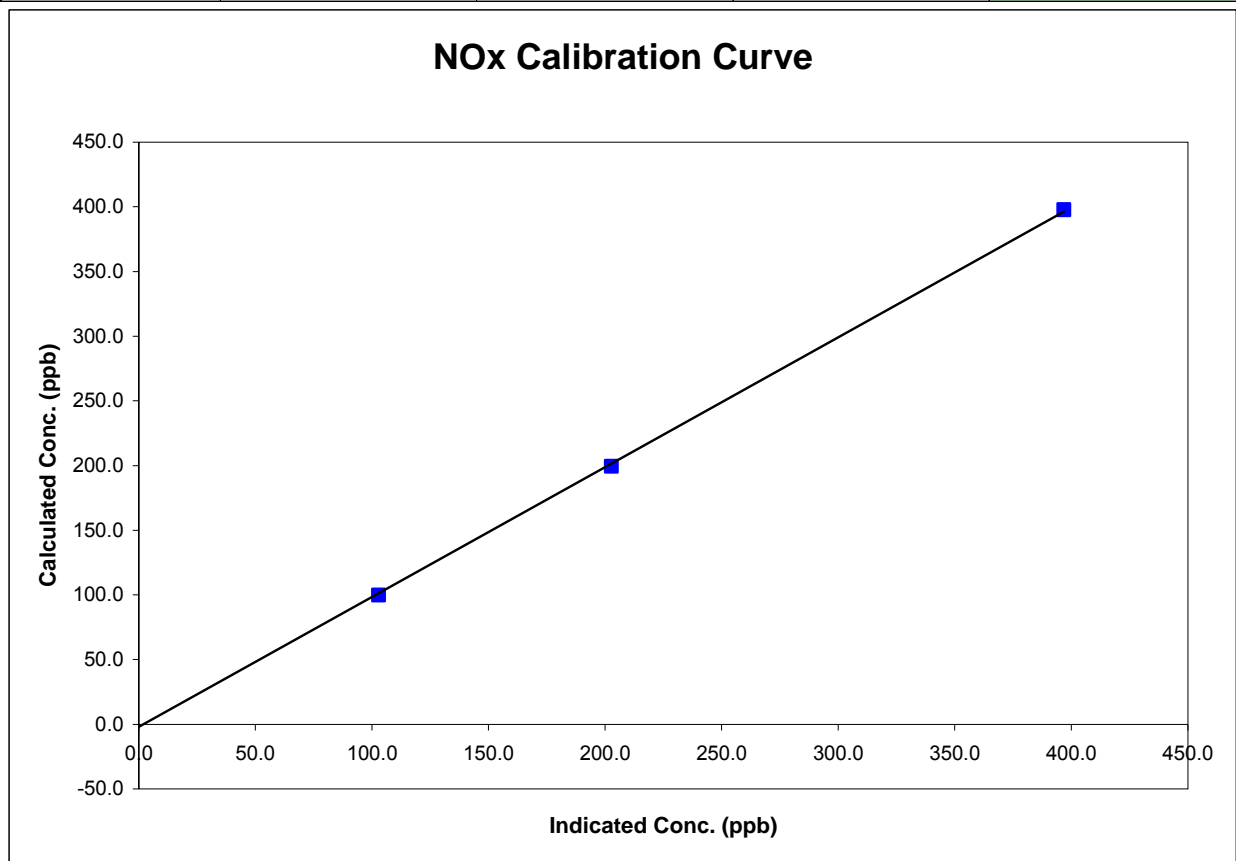
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:50	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	0.0000	Correlation Coefficient	0.999844
397.8	396.9	1.0023		
199.5	202.8	0.9837	Slope	1.003492
99.7	102.8	0.9695		
			Intercept	-1.940839



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

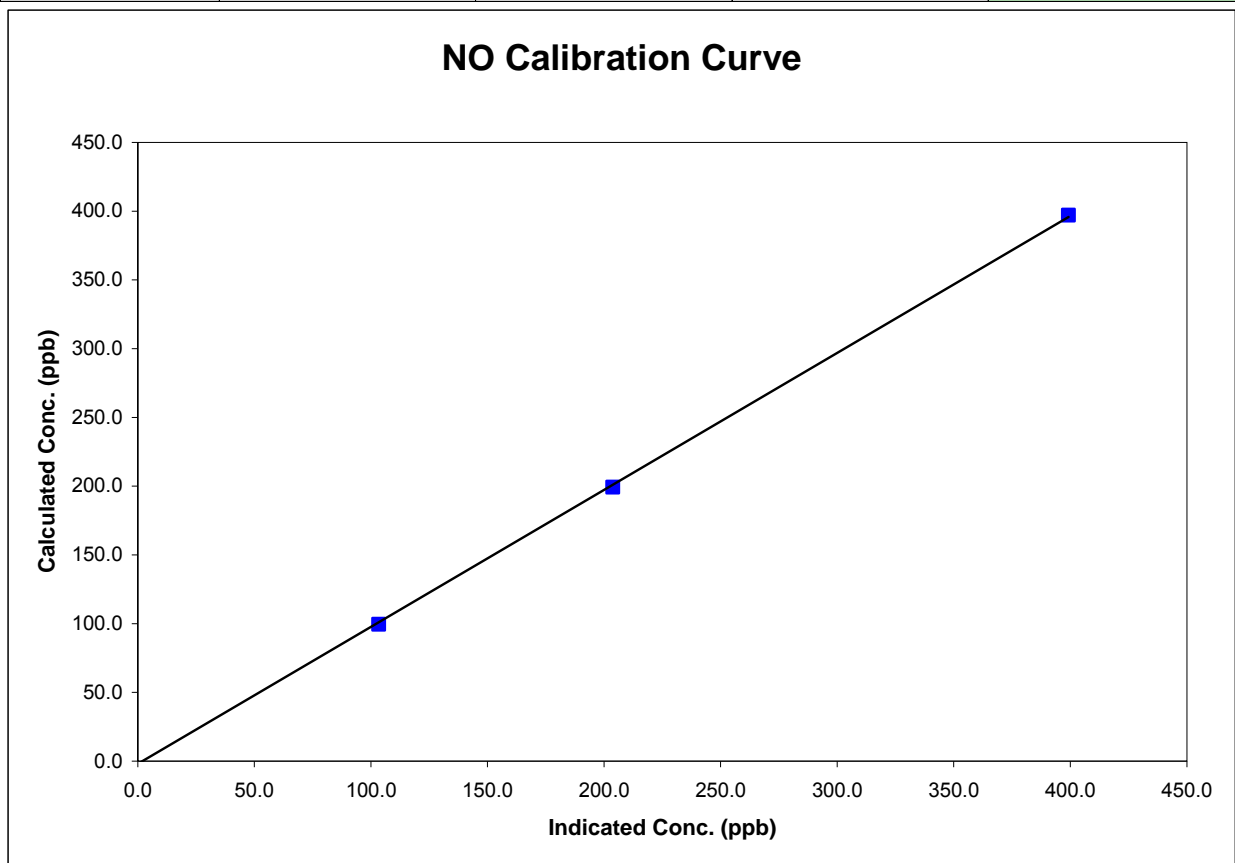


Station Information

Calibration Date	April 21, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:50	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
397.0	399.2	0.9947	Correlation Coefficient	0.999850
199.1	203.8	0.9771		
99.5	103.4	0.9627	Slope	0.995705
			Intercept	-1.827959



Calibration Report

Parameter O3 Air Monitoring Network PASZA

Station Information

Calibration Date	<u>April 22, 2008</u>	Previous Calibration	<u>March 14, 2008</u>
Station Number	<u>4</u>	Station Location	<u>Beaverlodge</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>8:30</u>	End Time (MST)	<u>11:20</u>
Barometric Pressure	<u>0.918</u> atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>Enviroics 6100</u>	Serial Number	<u>3474</u>
Cal Gas Concentration	<u>NA</u>	Cal Gas Expiry Date	<u>NA</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45269</u>
DACS voltage range	<u>0 - 1 volt</u>	DACS channel #	<u>5</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>1.027407</u>	Calculated slope	<u>1.003666</u>
Calculated intercept	<u>1.533421</u>	Calculated intercept	<u>-2.130487</u>
Analyzer make	<u>Teco 49C</u>	Analyzer serial #	<u>49C-76443-383</u>

	before		after	
Concentration range	<u>0 - 500</u>	<u>ppb</u>	<u>0 - 500</u>	<u>ppb</u>
offset	<u>-0.20</u>	<u>ppb</u>	<u>-0.20</u>	<u>ppb</u>
slope	<u>0.978</u>		<u>1.080</u>	
Lamp temp	<u>56.4</u>	<u>mV</u>	<u>56.4</u>	<u>mV</u>
Lamp Intensity A/B	<u>79000/77185</u>	<u>mV</u>	<u>78177/76619</u>	<u>mV</u>
Pressure	<u>647.2</u>	<u>mm Hg</u>	<u>655.7</u>	<u>mm Hg</u>
Flow A	<u>724</u>	<u>ccm</u>	<u>719</u>	<u>ccm</u>
Flow B	<u>676</u>	<u>ccm</u>	<u>671</u>	<u>ccm</u>

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
<u>4990</u>	<u>0.00</u>	<u>0.0</u>	<u>-0.4</u>	<u>N/A</u>
<u>4990</u>	<u>0.00</u>	<u>302.5</u>	<u>301.7</u>	<u>1.0026</u>
<u>4990</u>	<u>0.00</u>	<u>201.2</u>	<u>203.4</u>	<u>0.9892</u>
<u>4990</u>	<u>0.00</u>	<u>102.1</u>	<u>107.4</u>	<u>0.9508</u>
<u>4990</u>	<u>0.00</u>	<u>0.0</u>	<u>-0.4</u>	<u>As found zero</u>
<u>4990</u>	<u>0.00</u>	<u>302.5</u>	<u>271.3</u>	<u>As found span</u>
Average Correction Factor				<u>0.9809</u>

Calculated value of As Found Response: 280.7 ppm Percent Change of As Found: -7.2%

	before calibration		after calibration	
Auto zero	<u>1.6</u>	<u>ppb</u>	<u>-2.3</u>	<u>ppb</u>
Auto span	<u>114.0</u>	<u>ppb</u>	<u>121.8</u>	<u>ppb</u>

Notes: Adjusted O3Calibration Performed By: Conor Whiteley

Calibration Summary

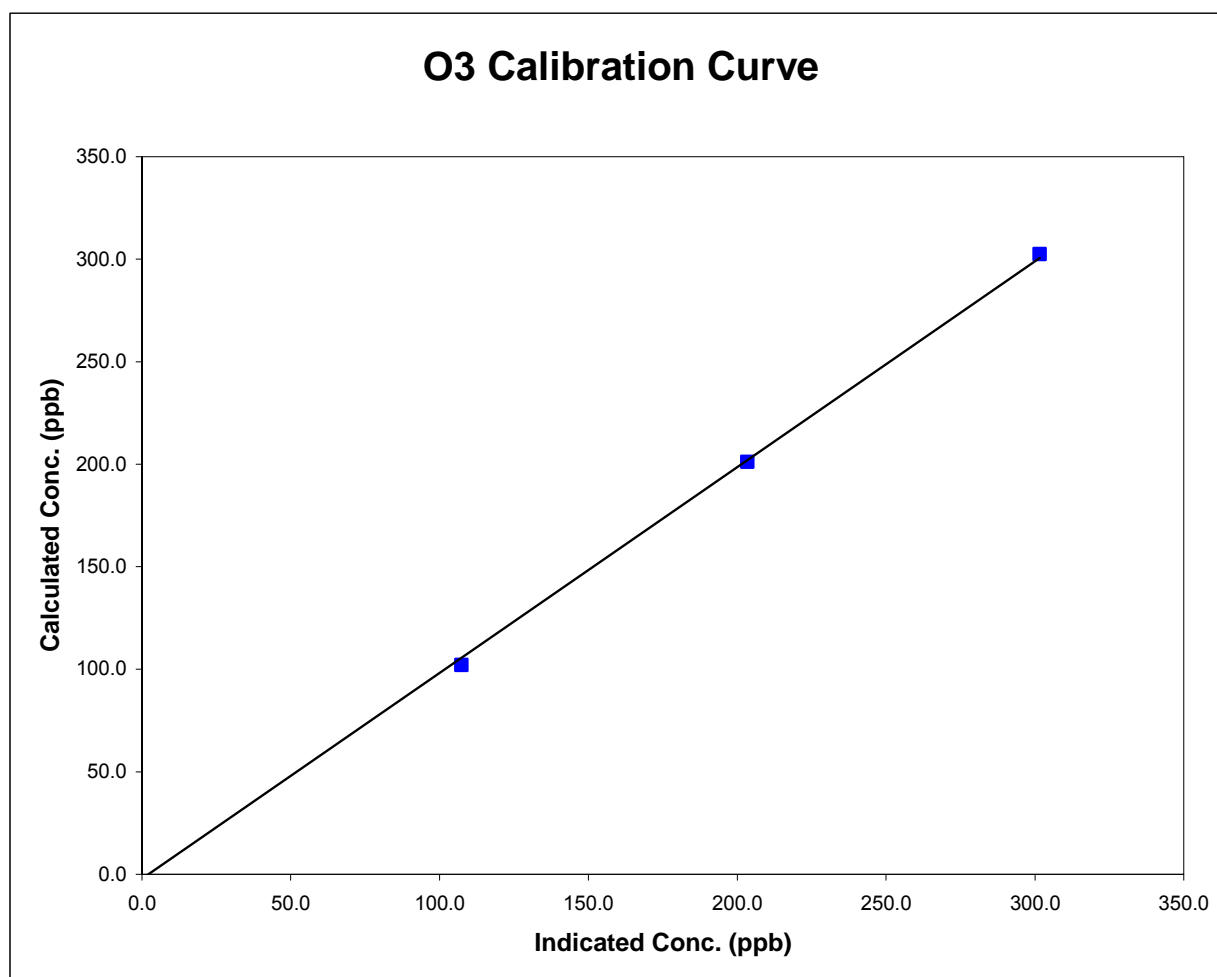
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

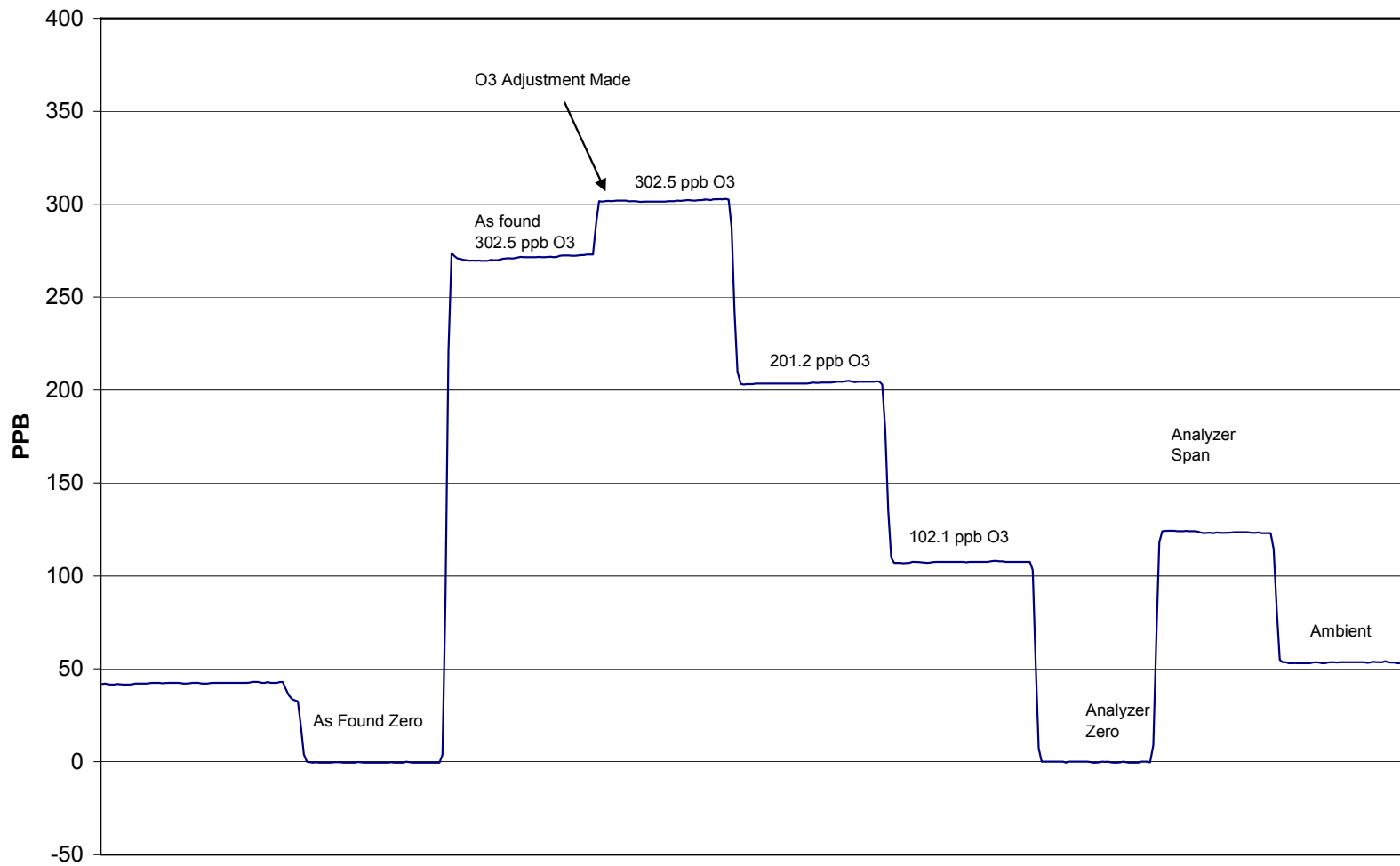
Calibration Date	April 22, 2008	Previous Calibration	March 14, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	11:20
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	NA		
302.5	301.7	1.0026	Correlation Coefficient	0.999545
201.2	203.4	0.9892		
102.1	107.4	0.9508	Slope	1.003666
			Intercept	-2.130487



Beaverlodge O₃ Calibration



April 22, 2008

Calibration ReportParameter **SO2**Air Monitoring Network **PASZA****Station Information**

Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>

Start Time (MST)	9:26	End Time (MST)	12:38
Barometric Pressure	29.94 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.005016	Calculated slope	1.003828
Calculated intercept	-1.925707	Calculated intercept	-1.107866

Analyzer make **TEI 43C** Analyzer serial # **609716238**

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	7.9		7.9	
Coefficient	1.137		1.137	
UV Lamp Voltage	740	V	740	V
Chamber Temp	44.5	C	44.5	C
Perm Gas Temp	45	C	45	C
Pressure	672.7	mm Hg	672.7	mm Hg
Sample Flow	485	LPM	485	LPM
Lamp Intesity	34494	Hz	34494	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.0	0.1	N/A
4988	39.86	398.8	397.6	1.0029
4988	19.79	198.8	200.3	0.9922
4988	9.93	99.9	101.2	0.9874
4988	0.00	0.0	0.1	As found zero
4988	39.90	399.2	397.6	As found span
Average Correction Factor				0.9942

Calculated value of As Found Response: 397.578 ppm Percent Change of As Found: 0.4%

	before calibration		after calibration	
Auto zero	-1.4	ppm	-0.7	ppm
Auto span	269.1	ppm	265.7	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

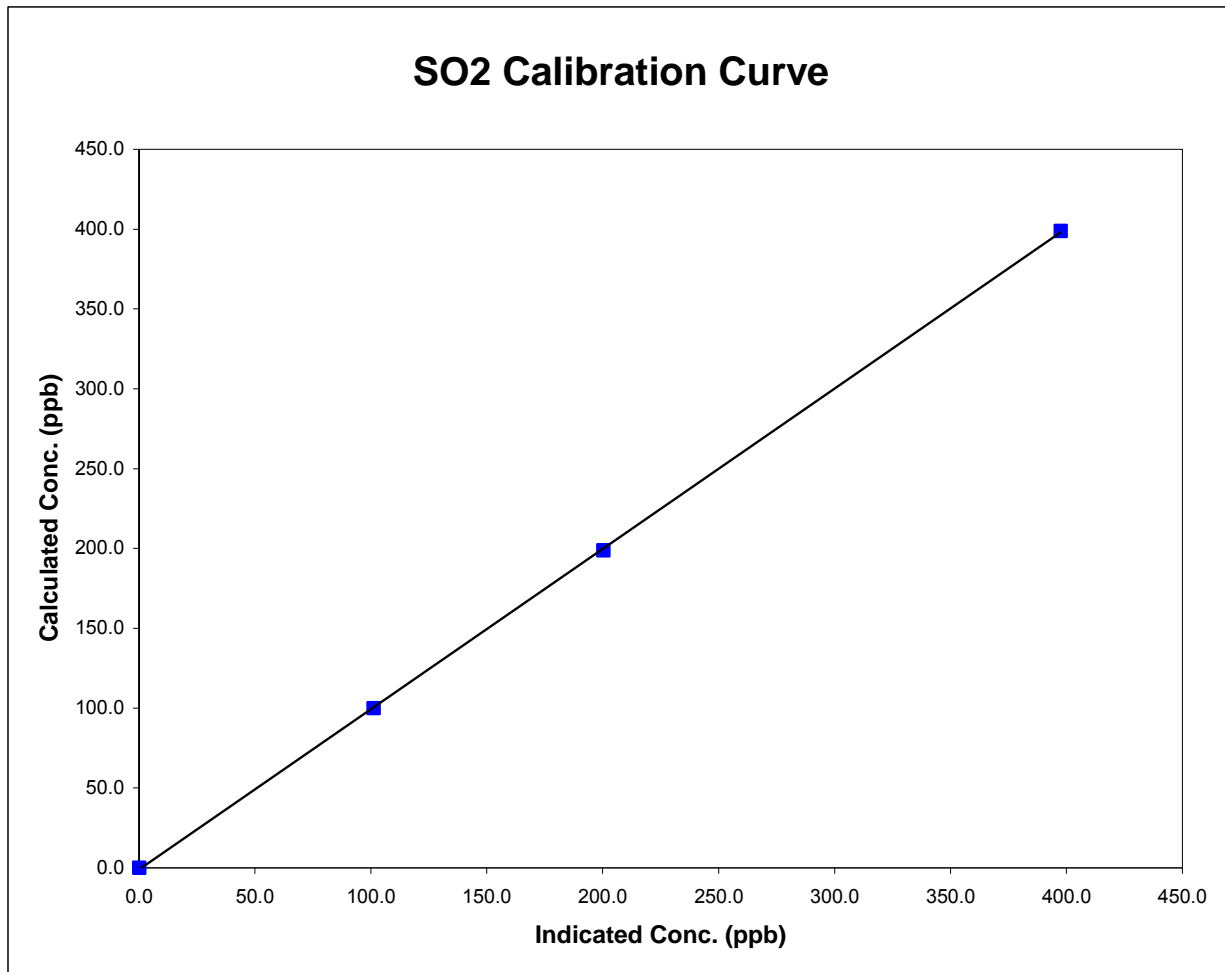
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

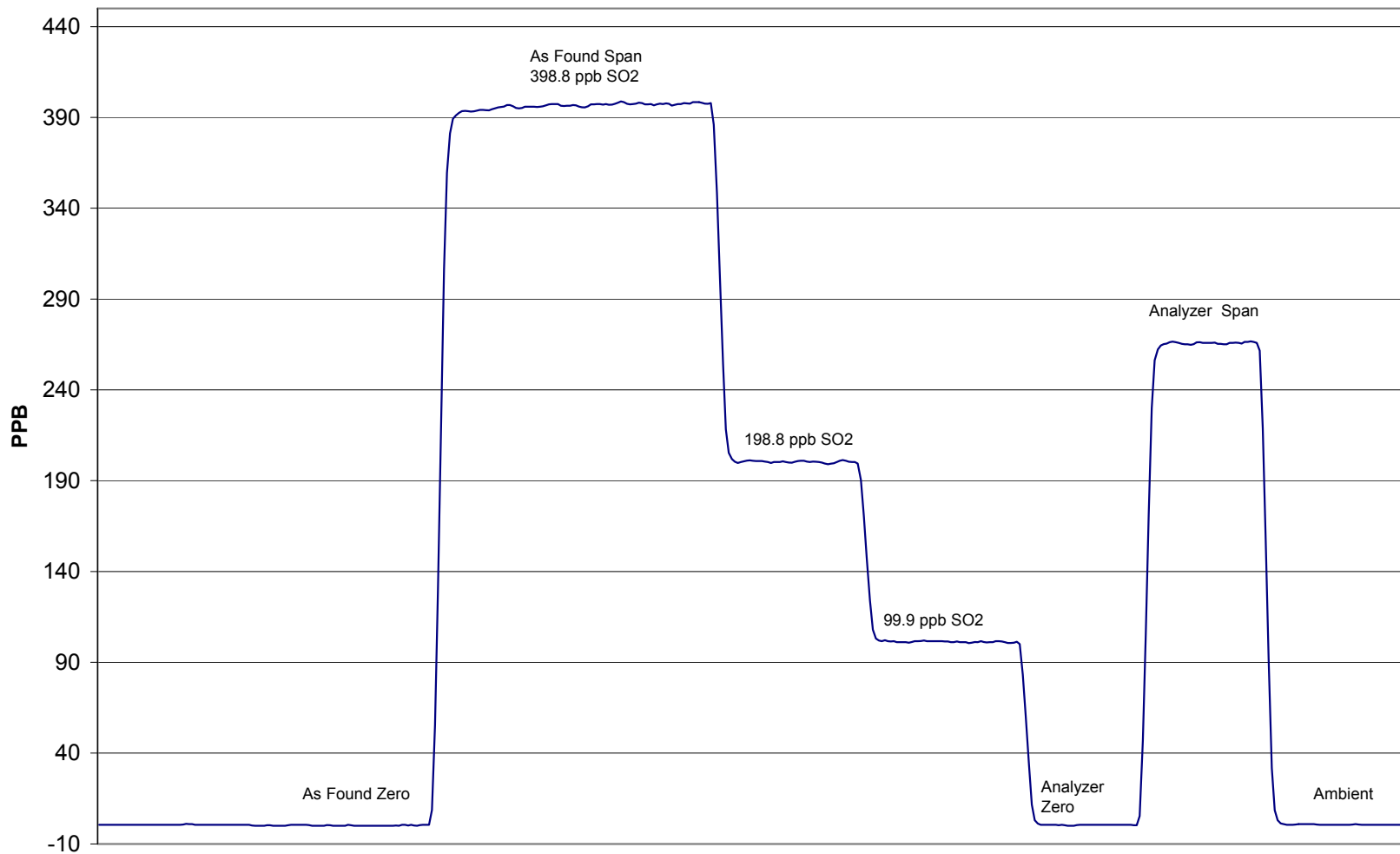
Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:26	End Time (MST)	12:38
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
398.8	397.6	1.0029	Correlation Coefficient	0.999961
198.8	200.3	0.9922		
99.9	101.2	0.9874	Slope	1.003828
			Intercept	-1.107866



Spirit River SO₂ Calibration



April 3, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 2, 2008	Previous Calibration	March 18, 2008
Station Number	6	Station Location	Rover
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:05	End Time (MST)	15:55
Barometric Pressure	27.6 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.030136	Calculated slope	1.011130
Calculated intercept	0.116273	Calculated intercept	-0.470531
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	8.8	ppb	8.8	ppb
Coefficient	1.416		1.416	
Lamp Voltage	813	V	813	V
Chamber Temp	44	C	44	C
Perm gas Temp	45	C	45	C
Pressure	418	mmHg	657	mmHg
Sample Flow	421	ccm	463	ccm
Lamp Intensity	39044.0	Hz	39044.0	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.0	0.0	0.8	N/A
4988	79.69	80.8	80.5	1.0036
4988	39.83	40.7	40.5	1.0050
4988	9.94	10.2	10.3	0.9882
4988	0.00	0.0	0.8	As found zero
4988	79.64	80.8	80.0	As found span
Average Correction Factor				0.9989

Calculated value of As Found Response: 81.71 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.5	ppm	-0.2	ppm
Auto span	75.3	ppm	74.5	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



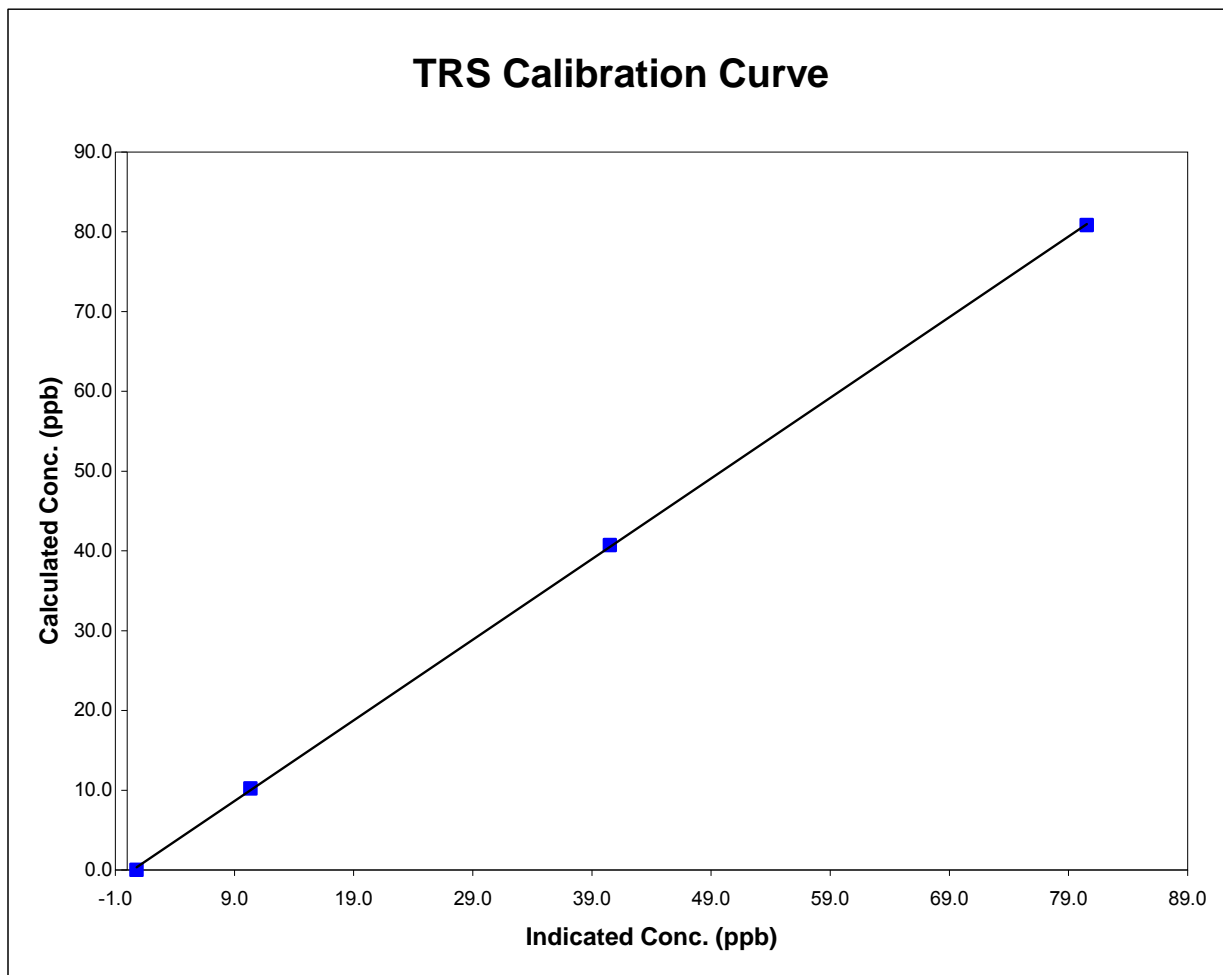
Parameter **TRS**
 Air Monitoring Network **PASZA**

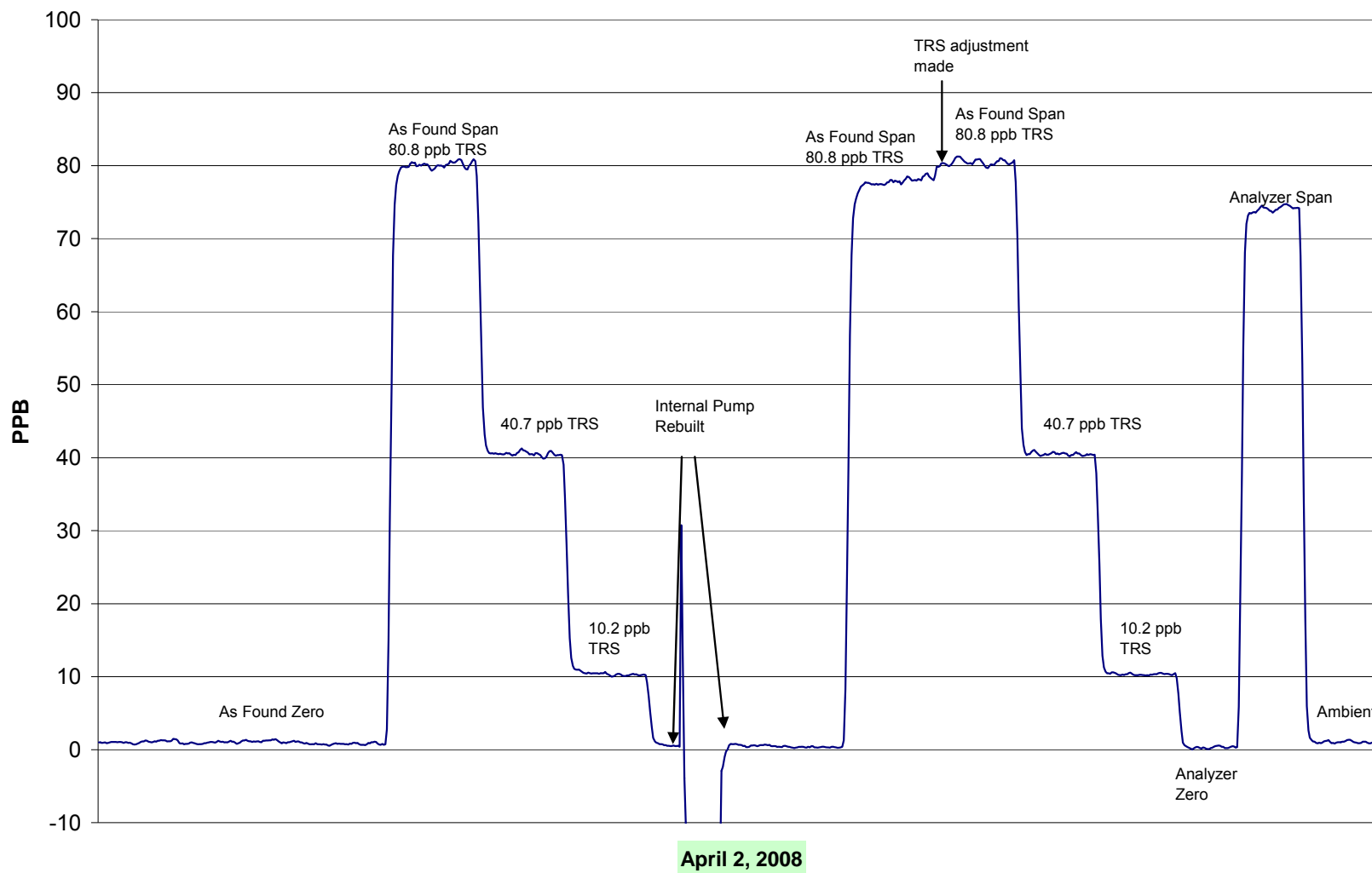
Station Information

Calibration Date	April 2, 2008	Previous Calibration	March 18, 2008
Station Number	6	Station Location	Rover
Start Time (MST)	10:05	End Time (MST)	15:55
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	N/A		
80.8	80.5	1.0036	Correlation Coefficient	0.999944
40.7	40.5	1.0050		
10.2	10.3	0.9882		
			Slope	1.011130
			Intercept	-0.470531



Spirit River TRS Calibration

Calibration Report



Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 3, 2008	Previous Calibration	March 28, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	13:40	End Time (MST)	16:20
Barometric Pressure	0.925 atm	Station Temperature	21.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	0.924491	Calculated slope	0.999365
Calculated intercept	-2.616173	Calculated intercept	3.297381
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0	ppb	0	ppb
Span	1.042		1.042	
Cell A	73624	Hz	73624	Hz
Cell B	69754	Hz	69754	Hz
Pressure	689	in Hg	689	in Hg
CellA Flow	669	ccm	669	ccm
Cell B Flow	666	cmm	666	cmm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.2	N/A
4990	0.00	301.0	300.8	1.0005
4990	0.00	209.8	204.8	1.0249
4990	0.00	116.4	108.6	1.0714
4990	0.00	0.0	0.2	As found zero
4990	0.00	300.0	300.8	As found span
Average Correction Factor				1.0323

Calculated value of As Found Response: 275.3 ppm Percent Change of As Found: -8.2%

	before calibration		after calibration	
Auto zero	-0.2	ppb	4.7	ppb
Auto span	312.8	ppb	229.2	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary



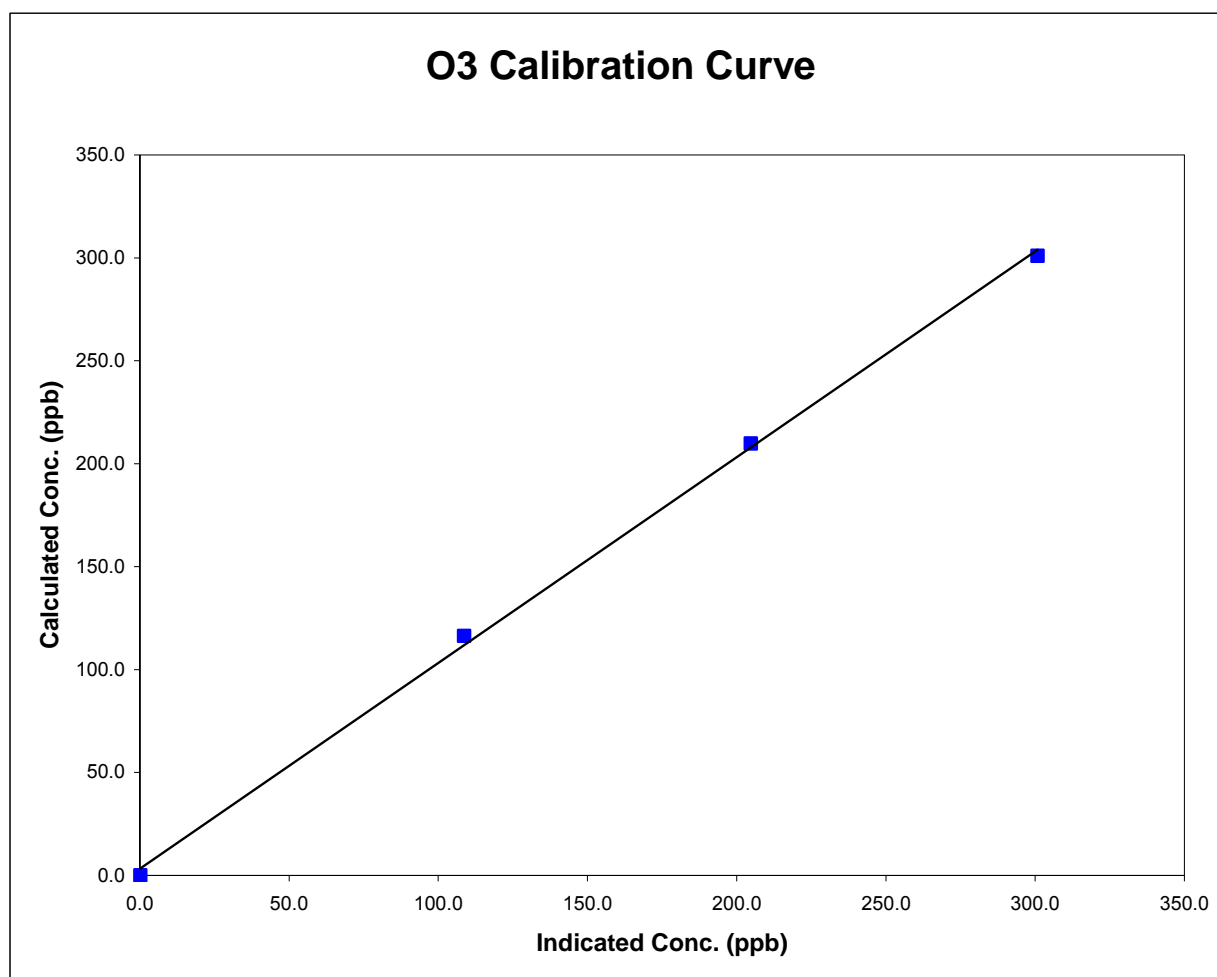
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

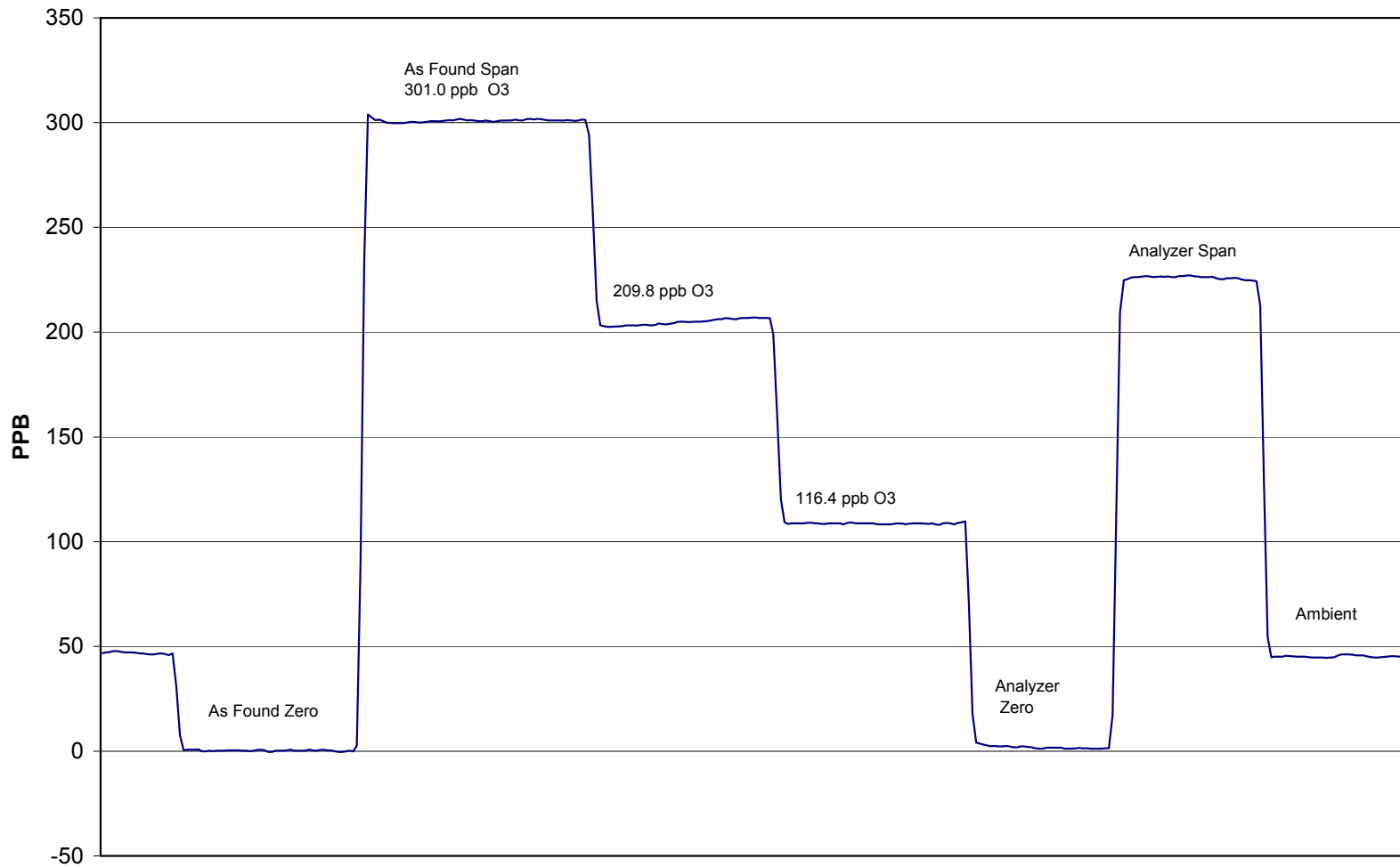
Calibration Date	April 3, 2008	Previous Calibration	March 28, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	13:40	End Time (MST)	16:20
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
301.0	300.8	1.0005	Correlation Coefficient	0.999092
209.8	204.8	1.0249		
116.4	108.6	1.0714	Slope	0.999365
			Intercept	3.297381



Spirit River O₃ Calibration



April 3, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	Routine	Installation	Removal
Start Time (MST)	9:26	End Time (MST)	14:27
Barometric Pressure	29.94 Inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-16161

DACS Information

DACS make FOCUS AP1000 DACS serial No. 52662

Parameter		NO2	NOx	NO
Before	Data Slope	0.999936	1.004743	1.004992
	Data Offset	-0.027794	-1.730838	-1.740124
After	Data Slope	1.001375	1.002795	1.002165
	Data Offset	-0.296556	-1.900754	-1.937235
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model TECO 42i Analyzer serial # 701120011

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	4.7	ppb	4.7	mV
NOx background	5.0	ppb	5.0	mV
NO coefficient	0.795		0.795	
NOx coefficient	0.996		0.996	
Chamber Temp	50.3	Deg C	50.3	Deg C
Cooler Temp	-3.0	Deg C	-3.0	Deg C
NO2 Converter Temp	325.3	Deg C	325.3	Deg C
Sample Flow	0.6	ccm	0.6	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	175.7	mm Hg	175.7	mm Hg

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**



Station Information

Calibration Date: **April 3, 2008** Station Location: **Rover - Spirit River**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4988	0.00	0.0	0.0	0.0	0.4	0.0	0.5	N/A	N/A
1	4988	39.86	387.7	387.7	0.0	387.4	387.4	0.9	1.0006	1.0006
2	4988	19.79	193.2	193.2	0.0	196.1	196.8	0.3	0.9852	0.9821
3	4988	9.93	97.2	97.2	0.0	99.8	100.1	0.4	0.9735	0.9705
AFZ	4988	0.00	0.0	0.0	0.0	0.4	0.0	0.5	0.0000	0.0000
AFS	4988	39.90	388.1	388.1	0.0	368.1	368.4	0.8	1.0543	1.0535
Average Correction Factor									0.9864	0.9844

As Found Concentrations: NO_x= 366.0 NO= 366.6 As Found Percent Change NO_x= -5.7% NO= -5.5%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.82 ccm

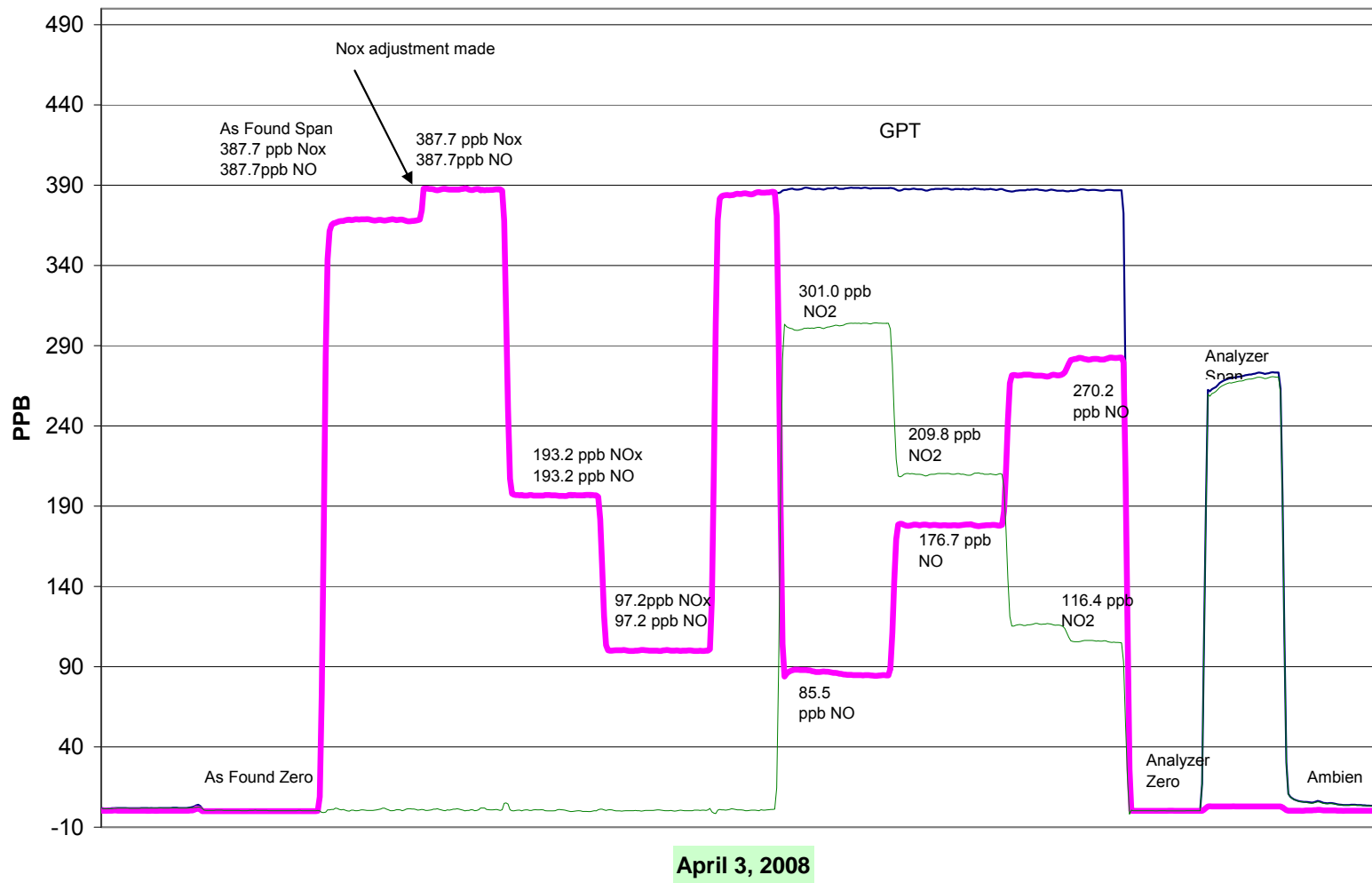
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	386.5	383.5	3.1	384.4	384.6	0.8	1.0056	0.9971	N/A	N/A
300	386.5	85.5	301.0	387.8	87.3	301.0	0.9968	0.9800	1.0002	100.0%
200	386.5	176.7	209.8	387.4	178.2	209.9	0.9977	0.9913	0.9997	100.0%
100	386.5	270.2	116.4	386.9	271.5	116.2	0.9992	0.9950	1.0014	99.9%
Average Correction Factor							0.9979	0.9888	1.0004	100.0%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.2	1.0	0.7	ppb	0.3	1.0	0.7	ppb
Auto span	267.2	264.7	1.3	ppb	270.3	268.6	1.0	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



Calibration Summary

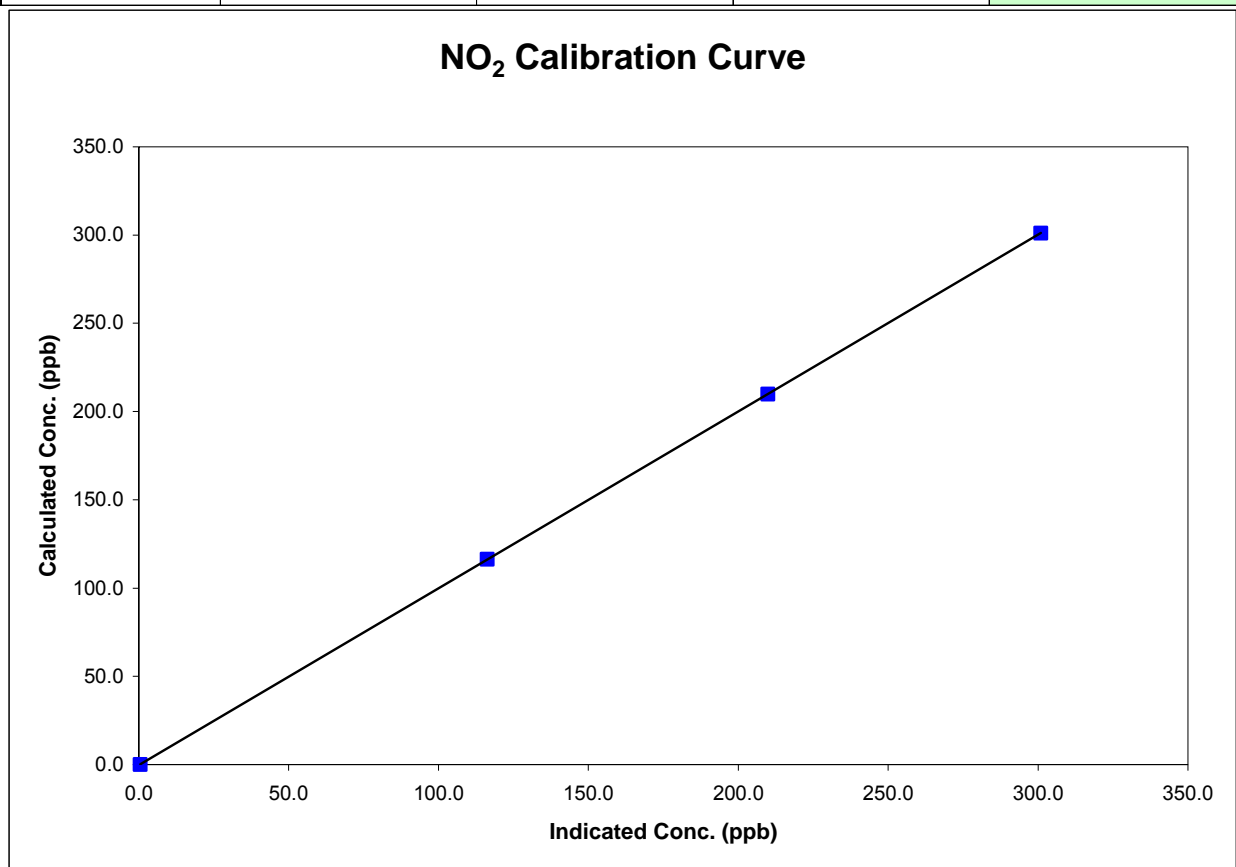
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:26	End Time (MST)	14:27
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	0.0000	Correlation Coefficient	0.999998
301.0	301.0	1.0002		
209.8	209.9	0.9997		
116.4	116.2	1.0014		
			Slope	1.001375
			Intercept	-0.296556



Calibration Summary

Parameter **NO_x**
 Air Monitoring Network **PASZA**

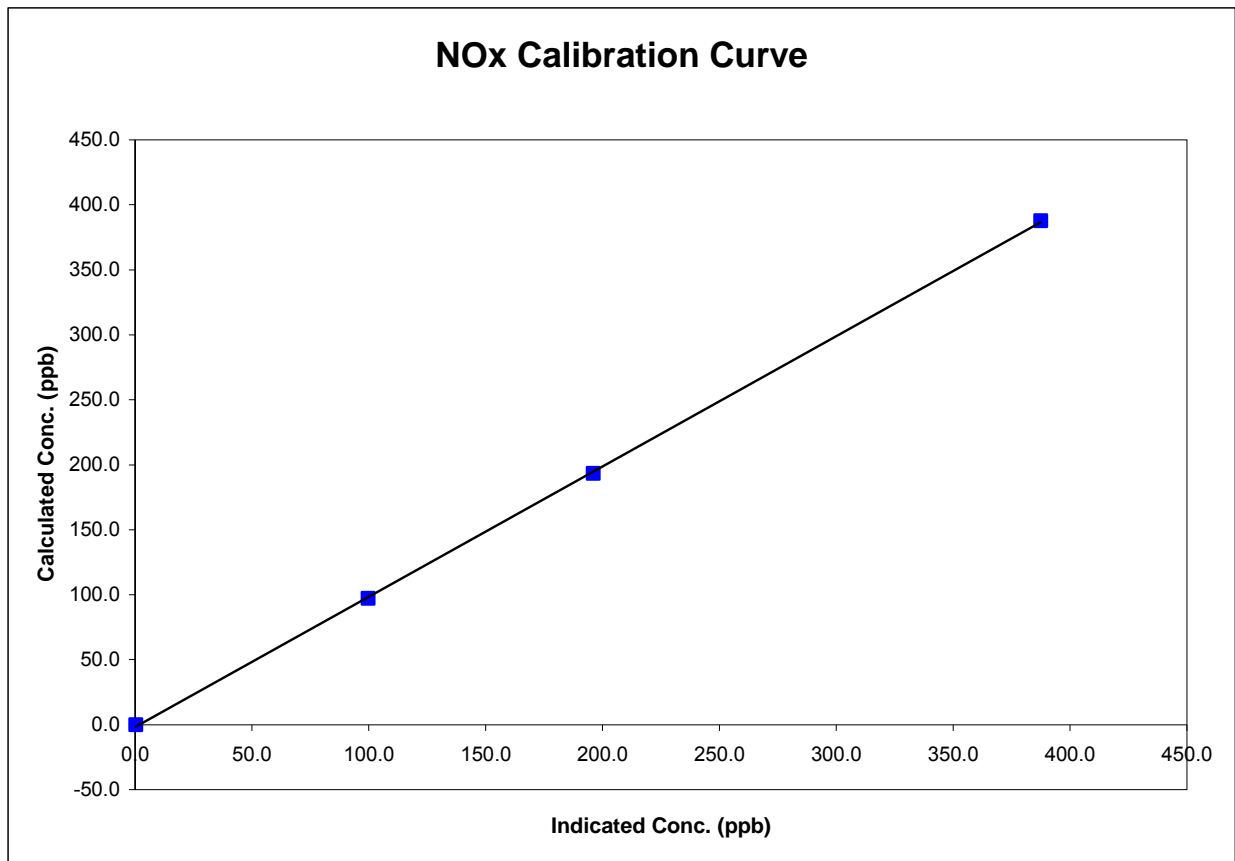


Station Information

Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:26	End Time (MST)	14:27
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	0.0000	Correlation Coefficient	0.999917
387.7	387.4	1.0006		
193.2	196.1	0.9852	Slope	1.002795
97.2	99.8	0.9735		
			Intercept	-1.900754



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

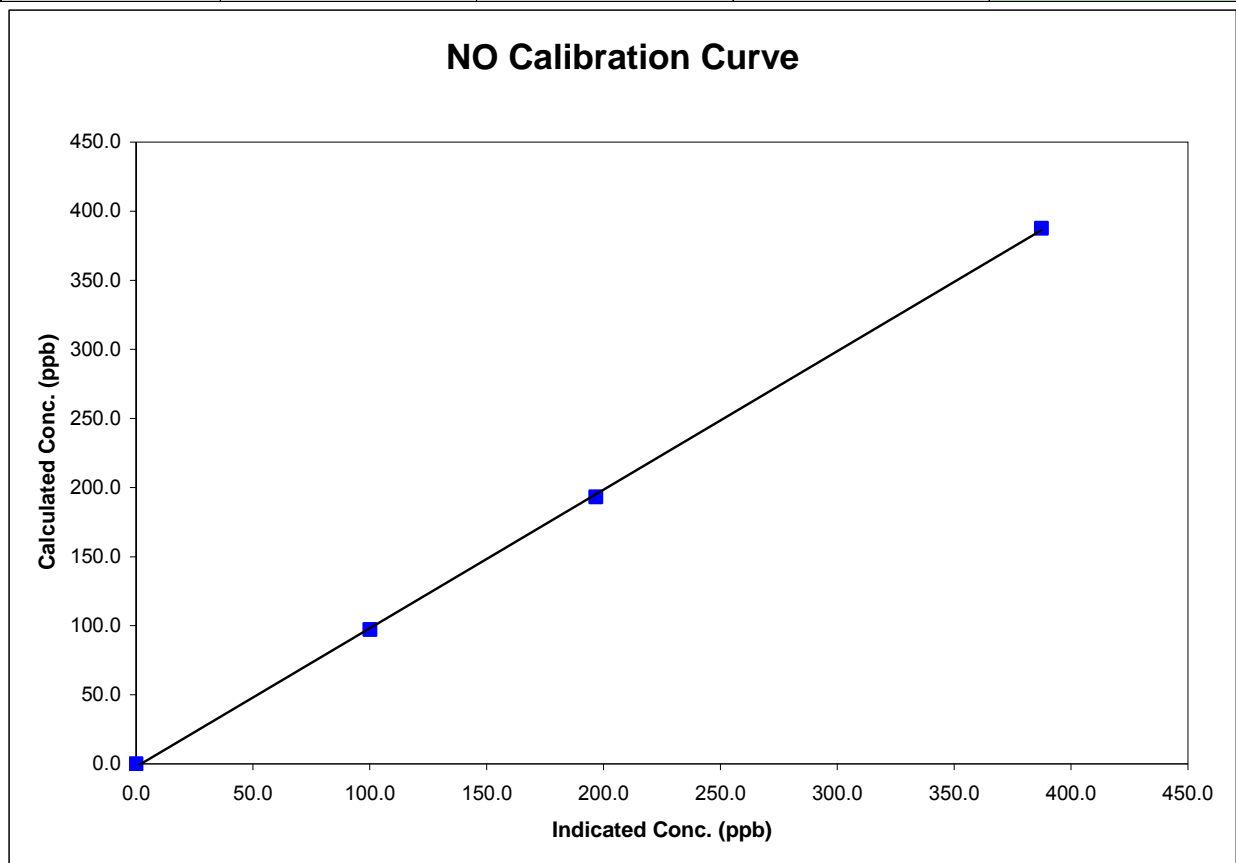


Station Information

Calibration Date	April 3, 2008	Previous Calibration	March 17, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:26	End Time (MST)	14:27
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
387.7	387.4	1.0006	Correlation Coefficient	0.999867
193.2	196.8	0.9821		
97.2	100.1	0.9705		
			Slope	1.002165
			Intercept	-1.937235



Calibration ReportParameter **SO2**Air Monitoring Network **PASZA****Station Information**

Calibration Date	April 17, 2008	Previous Calibration	March 13, 2008
Station Number	6	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:05	End Time (MST)	13:25
Barometric Pressure	27.40 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL16161		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.996855	Calculated slope	0.997963
Calculated intercept	-0.960345	Calculated intercept	-1.663723
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28		27.9	
Coefficient	0.74		0.74	
UV Lamp Voltage	695	LPM	698	LPM
Chamber Temp	43.9	V	44.2	V
Perm Gas Temp	21.8	C	26	C
Pressure	624.4	in Hg	628.1	in Hg
Sample Flow	0.468	LPM	0.47	LPM
Lamp Intesity	45535	Hz	45568	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.0	-0.1	N/A
4991	39.83	398.2	399.7	0.9963
4987	19.87	199.6	202.9	0.9837
4991	9.98	100.4	103.8	0.9674
4991	0.00	0.0	-0.1	As found zero
4991	39.83	398.2	399.7	As found span
Average Correction Factor				0.9825

Calculated value of As Found Response: 397.534 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	-1.5	ppm	-1.8	ppm
Auto span	167.0	ppm	165.2	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



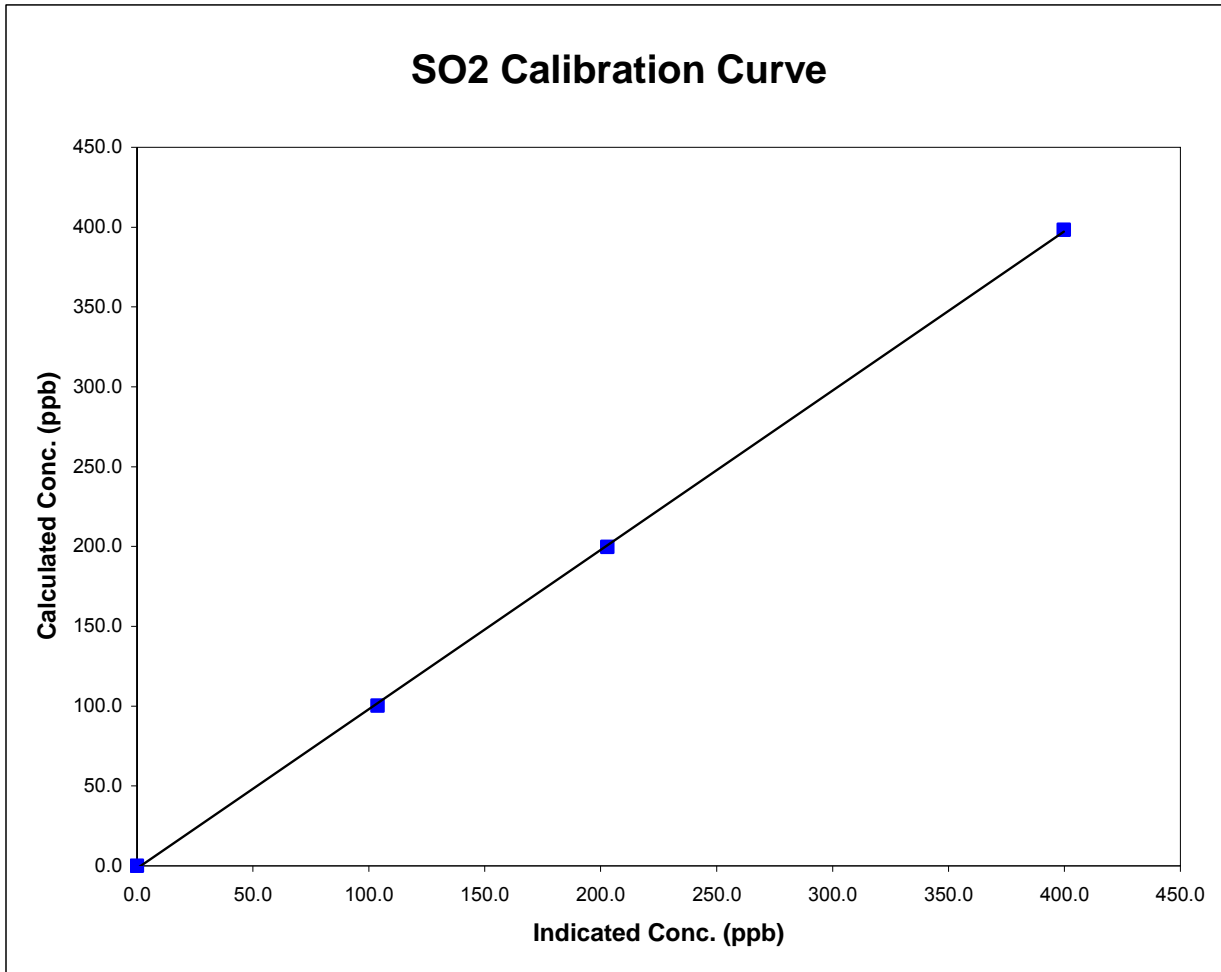
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

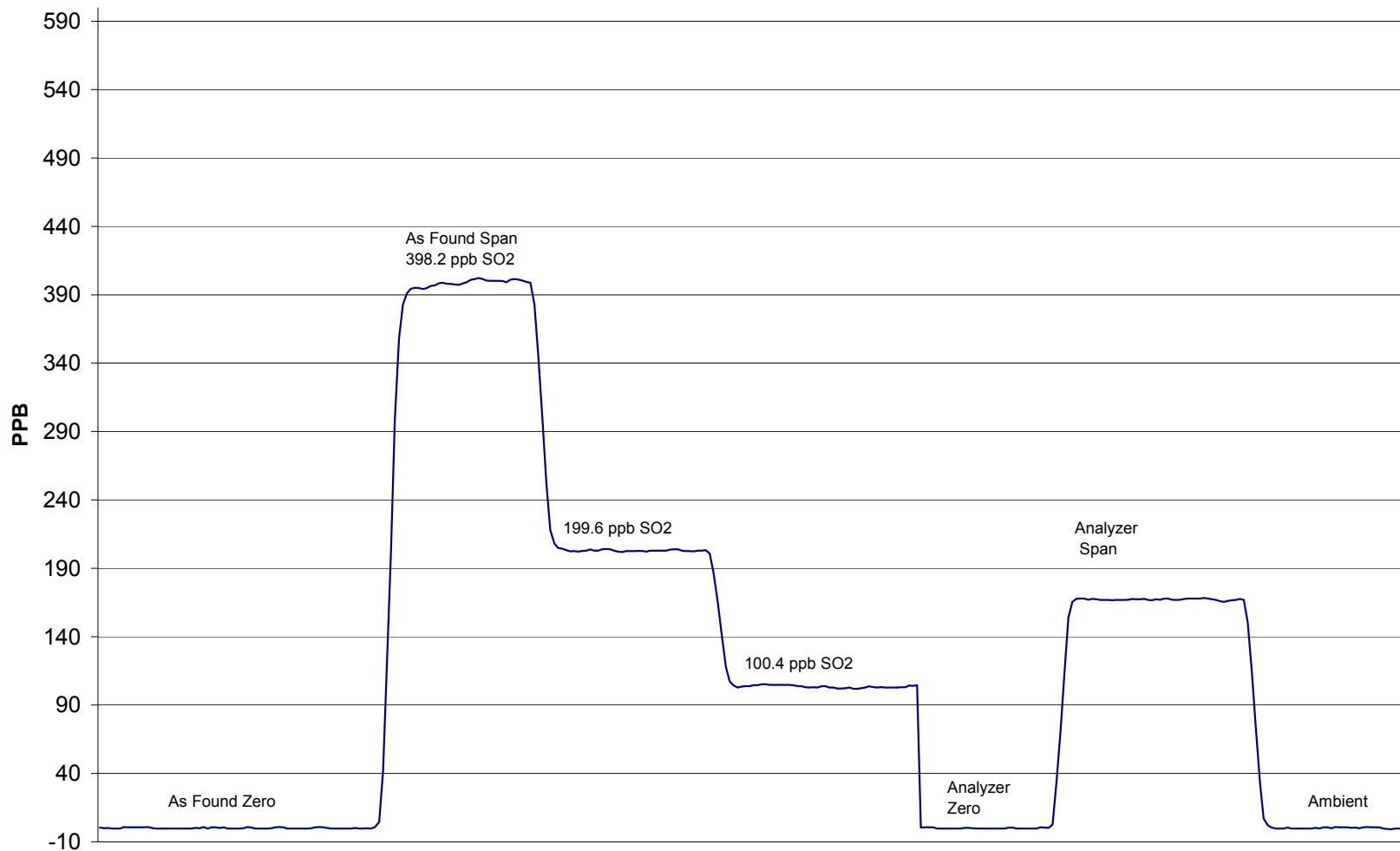
Calibration Date	April 17, 2008	Previous Calibration	March 13, 2008
Station Number	6	Station Location	Valleyview
Start Time (MST)	10:05	End Time (MST)	13:25
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
398.2	399.7	0.9963	Correlation Coefficient	0.999910
199.6	202.9	0.9837		
100.4	103.8	0.9674	Slope	0.997963
			Intercept	-1.663723



Valleyview SO₂ Calibration



April 17, 2008

Calibration Report



Parameter **H2S**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 17, 2008	Previous Calibration	March 13, 2008
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:10	End Time (MST)	15:00
Barometric Pressure	27.40 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.026011	Calculated slope	1.033805
Calculated intercept	0.226445	Calculated intercept	-0.071646
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.8	ppb	4.7	ppb
Coefficient	1.026		1.026	
Lamp Voltage	802	V	803	V
Chamber Temp	45.2	c	45.1	c
Perm Oven Temp	45	c	45.01	c
Pressure	640	mm Hg	640	mm Hg
Sample Flow	428	ccm	427	ccm
Lamp Intensity	91.0	%	91.0	%

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.1	N/A
4990	79.73	80.8	78.2	1.0341
4990	39.79	40.7	39.6	1.0266
4990	9.93	10.2	9.8	1.0384
4990	0.00	0.0	0.1	As found zero
4990	79.81	80.9	78.2	As found span
Average Correction Factor				1.0330

Calculated value of As Found Response: 80.36 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	0.2	ppm	-0.1	ppm
Auto span	66.0	ppm	66.1	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

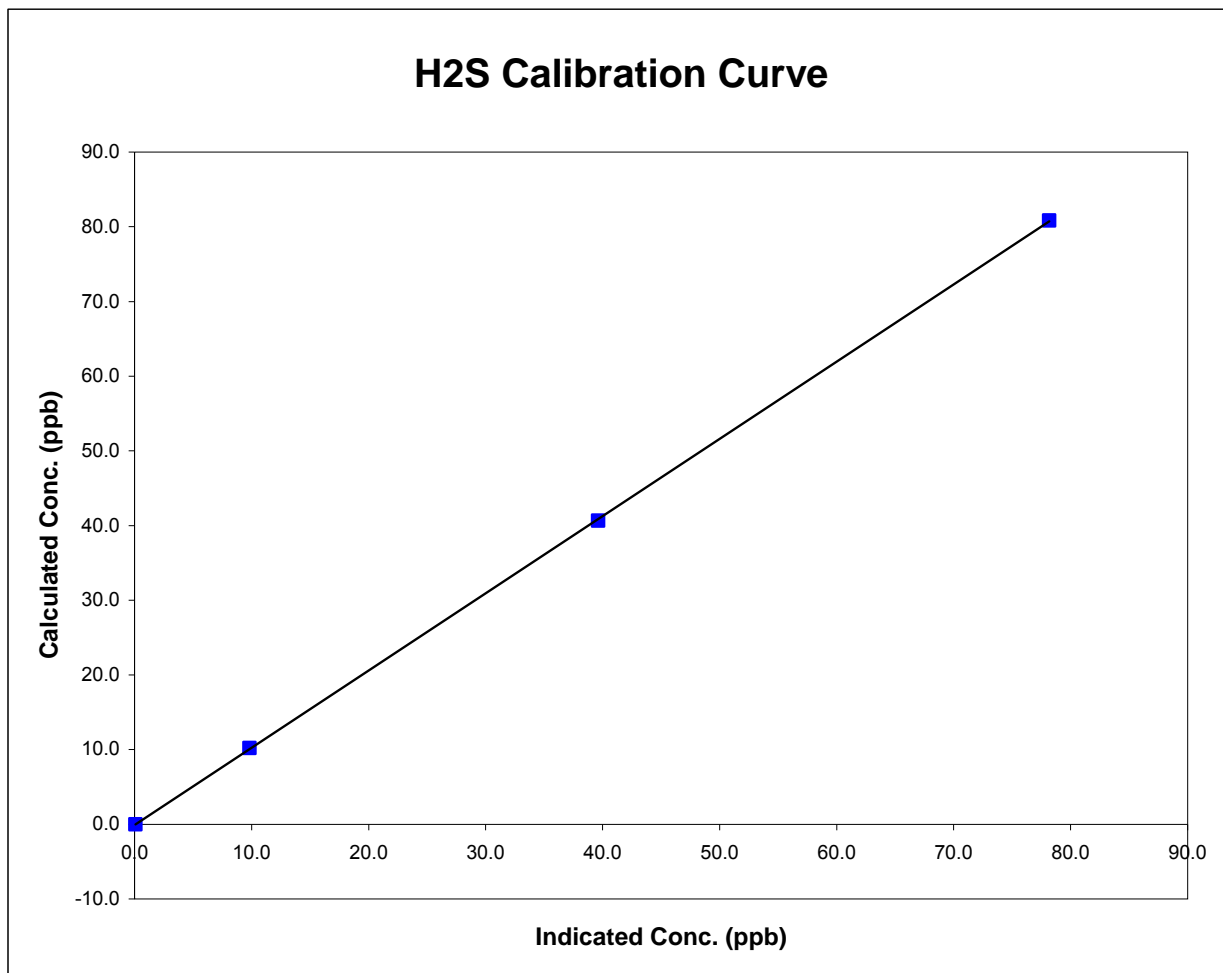
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

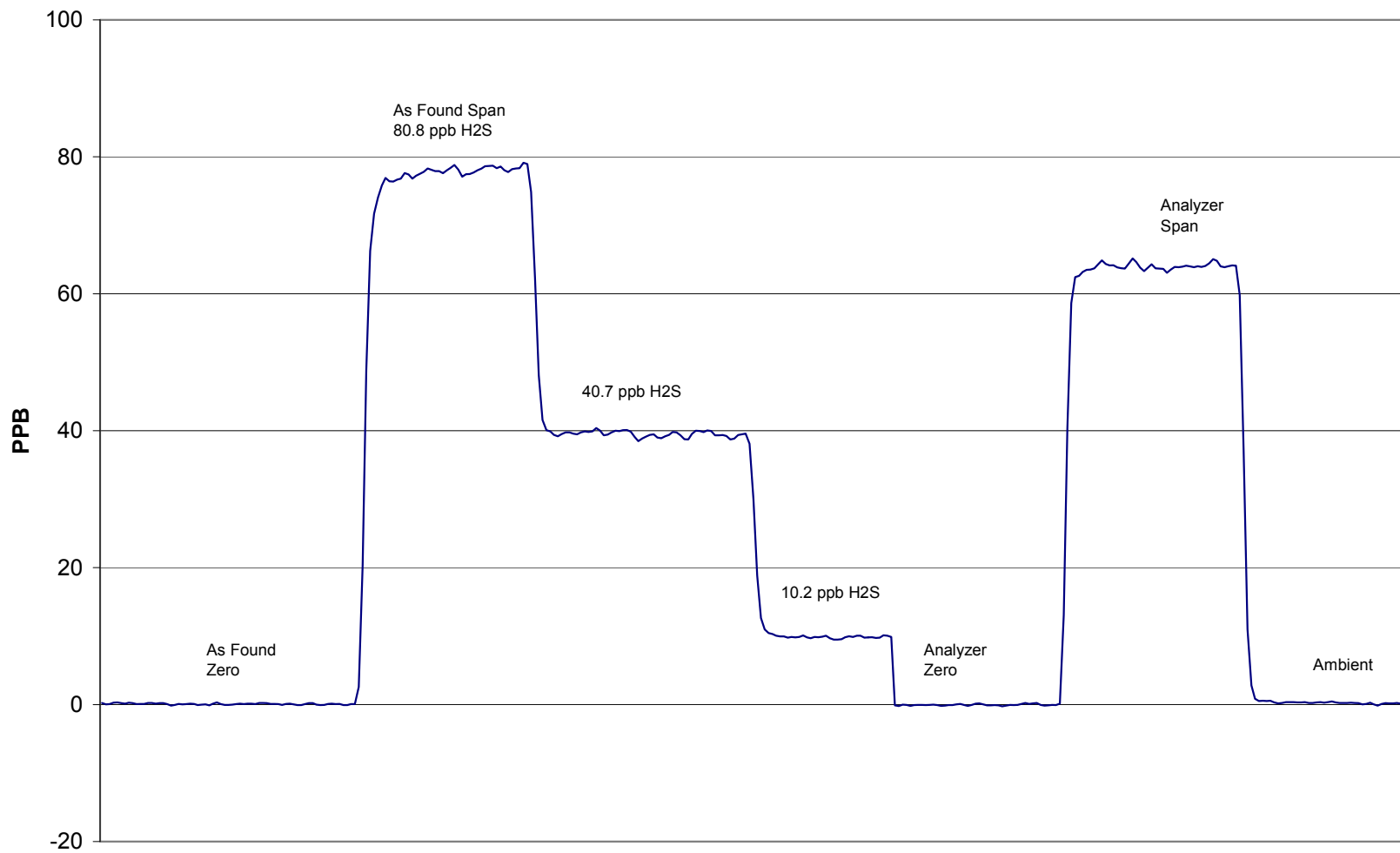
Calibration Date	April 17, 2008	Previous Calibration	March 13, 2008
Station Number	5	Station Location	Valleyview
Start Time (MST)	13:10	End Time (MST)	15:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
80.8	78.2	1.0341	Correlation Coefficient	0.999983
40.7	39.6	1.0266		
10.2	9.8	1.0384	Slope	1.033805
			Intercept	-0.071646



Valleyview H₂S Calibration



April 17, 2008