



Air Quality Monitoring Network for February 2008

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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April 3, 2008

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

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **February 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, Beaverlodge, Spirit River and Valleyview stations. The Smoky Heights station had one exceedence of PM_{2.5} on February 25th above the Alberta Objective – **Alberta Environment Reference #198158**.

During the month of February the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ TRS spans dropped on February 2nd to 11th – intermittent issue caused by extreme cold temperatures and low relative humidity affecting SOX scrubber.
- ◆ No CO spans February 6th, 7th and 8th – replaced cylinder.
- ◆ O₃ spans drop February 21st to 28th.
- ◆ A power failure on February 21st resulted in several hours flagged invalid for all parameters: two (2) hours for CO, relative humidity, temperature, wind speed and wind direction; three (3) hours for SO₂, NO_x, O₃, THC and TRS; and sixty-three (63) hours for PM_{2.5}.
- ◆ The NO_x analyzer flatlined for nine (9) hours on February 5th – reason unknown
- ◆ The AQI for the month resulted in 593 hours of Good readings.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.
- ◆ A power failure on February 7th resulted in one (1) hour of invalid data for all analyzers and sensor except the TEOM which had two (2) hours of invalid data.

Smoky Heights Station:

- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.
- ◆ A power failure on February 12th resulted in one (1) hour of invalid data for all analyzers and sensor except the TEOM which had two (2) hours of invalid data.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ Zero-air cylinder ran low – two (2) hours flagged for maintenance on NO_x analyzer on February 20th.
- ◆ A power bump on February 11th resulted in one (1) hour of invalid data for the TEOM.
- ◆ The AQI for the month resulted in 651 hours of Good readings.

Portable – Spirit River Station:

- ◆ All analyzers / sensors at the Spirit River station had an operational uptime greater than 90%.
- ◆ Five (5) hours were flagged invalid for for the wind sensors on February 9th due to possible fog or snow.

Valleyview Station:

- ◆ All analyzers / sensors at the Valleyview station had an operational uptime greater than 90%.
- ◆ A total of four (4) hours were flagged invalid for for the wind sensors in February due to possible fog or snow.

Passive Monitoring - 54 Stations throughout the PASZA zone:

There were two O₃ passive samples that were numbered the same; due to this error the results from the High Prairie and Bear Canyon sites have been removed. There were seven duplicate sites sampled in the month of February: Spirit River, Gold Creek, Puskwaskau, Guy, Blue Sky, Musreau Lake 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 0.2 ppb to 1.2 ppb, with a mean of 0.6 ppb.
- Monthly average concentrations for NO₂ passives ranged from 1.1 ppb to 15.1 ppb, with a mean of 3.2 ppb.
- Monthly average concentrations for O₃ passives ranged from 20.3 ppb to 40.4 ppb, with a mean of 33.1 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

Feb-2008 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr				24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.5	0	0	8.6	Feb-11 09:00	4.0	SE	1.7	Feb-11	99.6%
SO ₂ (ppb)	172	57	Evergreen Park	0.6	0	0	4.3	Feb-29 11:00	4.7	SSE	1.4	Feb-01	99.4%
SO ₂ (ppb)	172	57	Smoky Heights	1.3	0	0	12.8	Feb-17 14:00	15.4	WSW	3.0	Feb-03	99.9%
SO ₂ (ppb)	172	57	Beaverlodge	1.0	0	0	6.9	Feb-25 08:00	2.1	W	2.4	Feb-01	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.9	0	0	8.6	Feb-13 11:00	1.9	W	3.3	Feb-09	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.50	0	0	17.07	Feb-15 22:00	14.8	WNW	2.59	Feb-15	100.0%
NO (ppb)			Henry Pirker	19.7	-	-	200.1	Feb-18 21:00	2.5	SE	68.4	Feb-18	98.3%
NO ₂ (ppb)	212	106	Henry Pirker	21.4	0	0	65.6	Feb-11 11:00	4.0	ENE	39.0	Feb-18	98.3%
NO _x (ppb)			Henry Pirker	41.1	-	-	258.2	Feb-18 21:00	2.5	SE	107.8	Feb-18	98.3%
NO (ppb)			Beaverlodge	2.1	-	-	47.1	Feb-02 11:00	2.5	WNW	21.6	Feb-02	99.7%
NO ₂ (ppb)	212	106	Beaverlodge	7.6	0	0	31.1	Feb-02 17:00	4.8	WNW	24.1	Feb-02	99.7%
NO _x (ppb)			Beaverlodge	9.8	-	-	75.7	Feb-02 06:00	0.0	Calm	45.8	Feb-02	99.7%
NO (ppb)			Portable-Spirit River	1.1	-	-	15.4	Feb-24 05:00	3.2	WNW	4.5	Feb-04	100.0%
NO ₂ (ppb)	212	106	Portable-Spirit River	5.9	0	0	24.0	Feb-04 21:00	2.2	ESE	14.5	Feb-02	100.0%
NO _x (ppb)			Portable-Spirit River	7.2	-	-	34.6	Feb-04 09:00	1.3	WNW	18.6	Feb-02	100.0%
O ₃ (ppb)	82		Henry Pirker	15.1	0	-	39.8	Feb-27 15:00	32.3	WSW	32.0	Feb-16	99.6%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					37.0	Feb-27	
O ₃ (ppb)	82		Beaverlodge	30.1	0	-	49.3	Feb-18 13:00	3.3	E	43.9	Feb-18	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					46.9	Feb-18	
O ₃ (ppb)	82		Portable-Spirit River	28.6	0	-	53.8	Feb-27 13:00	27.1	WSW	41.8	Feb-29	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					49.6	Feb-29	
CO (ppm)	13		Henry Pirker	0.36	0	-	2.2	Feb-11 09:00	4.0	SE	0.7	Feb-18	99.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					1.6	Feb-19	
THC (ppm)			Henry Pirker	2.44	-	-	4.4	Feb-11 01:00	2.6	NE	3.2	Feb-02	99.6%
TRS (ppb)			Henry Pirker	0.7	-	-	2.3	Feb-13 02:00	4.1	W	1.4	Feb-21	99.6%
TRS (ppb)			Evergreen Park	0.9	-	-	3.8	Feb-19 09:00	3.0	W	1.9	Feb-02	99.4%
TRS (ppb)			Smoky Heights	0.5	-	-	3.9	Feb-14 06:00	8.5	S	1.1	Feb-13	99.9%
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.4	Sep-22 22:00	1.6	SSE	0.6	Sep-22	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.2	0	0	8.9	Feb-15 15:00	19.3	WNW	0.6	Feb-21	100.0%
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	5.5	0	0	28.7	Feb-18 00:00	3.0	E	11.8	Feb-04	90.1%
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	5.7	0	0	23.9	Feb-22 09:00	2.5	NW	14.2	Feb-02	98.6%
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	5.4	1	0	149.2	Feb-24 00:00	7.5	NNE	14.7	Feb-25	98.4%
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	3.6	0	0	22.4	Feb-04 06:00	3.2	W	11.1	Feb-02	98.9%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on February 1st (TRS & TEOM), 4th (CO), 5th (THC), 6th ((SO₂ & NO_x) and February 8th (CO & O₃). A power failure on February 21st resulted in a number of 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	February 5 th analyzer flatlined – reason undetermined.
O ₃	TEI	49C	February 21 st to 28 th – spans drop – reason unknown.
CO	TEI	48C	No spans Februar 6 th , 7 th and 8 th – replaced with new cylinder
THC	TEI	51-CLT	No operational issues observed.
TRS	TEI	43C	Spans dropped between Feb 2 nd – 11 th . Cause determined to be low humidity affecting SOX scrubber.
PM _{2.5}	R&P	1400AB	Six (6) hours were flagged due to excessive baseline drift. The power failure on February 21 st resulted in sixty-three (63) hours of invalid data for the TEOM.
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	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on February 14th (SO₂, TRS).). A power failure on February 7th resulted in a number of hours of invalid data for all parameters.

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	Eight (8) hours were flagged due to excessive baseline drift.
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 February 13th (SO₂, TRS). A power failure on February 12th resulted in a number of hours of invalid data for all parameters.

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	Nine (9) hours were removed due to excessive baseline drift. On February 25 th there was a one hour exceedence of the Alberta Objective (149 µg/m ³) – Alberta Environment Ref # 198158.
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 February 11th (SO₂, NO_x and O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	On February 17, 18, 19 and 20 spans greater than 10% limit - zero air cylinder was replaced on 20 th (maintenance –two (2) hours).
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Seven (7) 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 February 21st (SO₂, NO_x and O₃) and February 25th (TRS).

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	No operational issues observed.
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 five (5) hours were flagged invalid – possibly due to fog or snow.
WD	Met One		Total of five (5) hours were flagged invalid – possibly due to fog or snow.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on February 22nd (SO₂ and H₂S).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
H ₂ S	TEI	43A	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Gill	Met Pak 3	Total of four (4) hours were flagged invalid – possibly due to fog or snow.
WD	Gill	Met Pak 3	Total of four (4) hours were flagged invalid – possibly due to fog or snow.

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: February 1, 2008 to March 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:	593
Number of 1-hr Fair Readings:	0
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-Feb-08	6	6	5	5	6	N	5	5	6	6	6	7	11	8	8	N	N	7	8	10	8	6	6	6
2-Feb-08	6	6	6	6	6	N	6	7	8	11	10	9	8	8	9	9	12	15	12	14	10	11	12	11
3-Feb-08	10	9	9	9	N	8	9	8	8	7	6	10	9	9	8	8	19	7	8	8	9	11	8	5
4-Feb-08	5	5	4	N	8	6	7	6	7	6	8	12	16	15	13	13	12	15	16	13	14	13	11	12
5-Feb-08	9	9	8	10	8	N	8	8	5	7	N	N	N	N	12	10	9	8	9	8	8	9	9	10
6-Feb-08	11	11	12	13	13	N	13	13	13	12	11	N	N	N	N	12	10	6	5	10	10	11	12	12
7-Feb-08	13	13	13	14	12	N	10	9	7	9	10	13	13	14	14	14	13	12	13	12	12	14	14	14
8-Feb-08	14	14	14	15	N	15	14	14	14	3	3	3	4	14	14	13	13	7	11	11	10	8	7	7
9-Feb-08	8	9	10	6	7	N	9	8	9	7	8	9	10	10	9	10	10	10	11	13	13	13	13	13
10-Feb-08	13	13	11	10	N	10	9	7	6	7	9	8	9	10	8	10	8	7	6	6	9	7	6	9
11-Feb-08	12	12	12	N	10	12	14	19	17	16	15	16	11	10	8	9	12	14	13	15	13	9	10	7
12-Feb-08	9	9	N	10	11	10	9	8	8	8	9	9	10	19	10	7	9	11	8	10	11	12	7	10
13-Feb-08	10	N	4	6	7	6	7	7	7	7	7	9	8	8	8	7	7	8	11	14	9	7	7	6
14-Feb-08	N	5	5	5	5	6	8	11	12	15	14	12	12	15	16	16	14	14	13	14	16	15	16	N
15-Feb-08	14	8	9	9	8	8	8	9	9	10	11	14	N	15	14	14	13	12	12	14	15	14	N	17
16-Feb-08	17	18	17	17	18	18	17	16	16	16	15	16	18	18	19	19	18	14	7	12	15	N	13	13
17-Feb-08	10	10	10	13	10	8	10	11	12	10	8	7	12	13	11	12	7	10	10	8	N	8	10	8
18-Feb-08	10	11	11	11	10	12	11	9	7	5	7	12	10	11	11	11	10	10	11	N	16	22	15	23
19-Feb-08	24	15	16	11	10	10	9	9	10	8	7	10	9	11	14	12	12	10	N	13	12	10	9	8
20-Feb-08	6	6	6	5	6	7	9	8	9	9	6	10	11	13	12	12	8	N	11	10	10	9	8	8
21-Feb-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
22-Feb-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
23-Feb-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	13	12	11	11	10	9	12	13
24-Feb-08	10	8	9	13	13	12	10	8	7	7	10	16	17	17	N	18	18	15	15	15	15	17	17	17
25-Feb-08	16	17	16	16	16	16	14	8	11	10	6	11	13	N	15	10	10	9	8	8	10	9	9	13
26-Feb-08	14	14	14	11	9	8	8	8	11	12	9	9	N	16	17	16	14	14	11	11	12	14	14	14
27-Feb-08	13	13	14	14	13	12	6	9	8	7	6	N	10	17	N	20	19	18	18	18	17	18	18	18
28-Feb-08	18	17	17	16	16	15	14	10	7	12	N	16	17	17	17	17	15	16	11	8	8	7	7	8
29-Feb-08	7	8	7	9	7	7	8	9	10	N	14	9	14	16	18	13	17	17	17	16	17	19	18	17

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

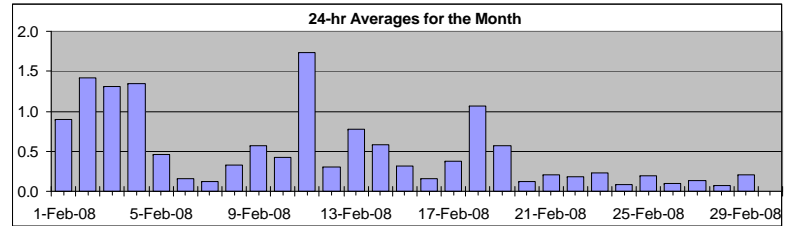
Monitoring Dates: February 1, 2008 to March 1, 2008

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:	8.6 ppb	11-Feb	9:00	10:00
Maximum 24-hr Average:	1.7 ppb	11-Feb		

AIC Time:	30 hrs	Operational Time:	659 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	2.1	0.7	0.2	0.0	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																								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-Feb-08	0	0	0	0	1	A	0	0	0	0	1	0	4	2	2	2	1	2	1	1	1	0	1	0.9	3.6	
2-Feb-08	1	1	1	0	1	A	1	1	1	1	1	1	2	2	2	2	3	2	2	2	2	2	1	1	1.4	2.8
3-Feb-08	1	1	0	0	A	0	0	0	1	1	1	1	2	3	3	2	2	2	3	2	2	1	1	1.3	2.9	
4-Feb-08	0	1	0	A	2	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.3	2.3
5-Feb-08	0	0	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0.5	2.6
6-Feb-08	0	0	0	0	0	A	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	1	1	0.2	1.1
7-Feb-08	1	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	1.4
8-Feb-08	1	1	0	0	A	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0.3	0.9
9-Feb-08	0	0	0	0	0	A	5	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0.6	5.3
10-Feb-08	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0.4	1.2
11-Feb-08	1	2	1	A	1	1	2	3	3	9	6	4	2	2	1	1	0	0	0	0	0	0	0	0	1.7	8.6
12-Feb-08	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	1	0	1	0.3	1.0
13-Feb-08	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0.8	1.5
14-Feb-08	A	0	0	0	0	0	1	1	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	A	0.6	2.4
15-Feb-08	0	0	0	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	0	1	1	0	A	0	0.3	1.5
16-Feb-08	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.8
17-Feb-08	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	A	0	0	0	0.4	1.2
18-Feb-08	1	2	2	1	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	A	3	3	2	3	1.1	3.3
19-Feb-08	4	3	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	1	0	0	0	0	0.6	4.0
20-Feb-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	0.5
21-Feb-08	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0.2	1.0
22-Feb-08	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	1.4
23-Feb-08	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	0	0	0	1	0	0	0	0	0.2	0.9
24-Feb-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	0.3
25-Feb-08	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0.2	1.0
26-Feb-08	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
27-Feb-08	0	0	0	0	0	0	0	0	0	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
28-Feb-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	1	0.1	0.7
29-Feb-08	3	0	0	0	0	0	0	0	0	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	3.1
Hourly Avg	0.6	0.4	0.4	0.2	0.3	0.4	0.6	0.4	0.6	0.9	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.3	0.4		
Hourly Max	4.0	2.7	2.4	1.4	1.7	3.2	5.3	3.1	3.3	8.6	5.8	3.9	3.6	2.9	2.8	2.5	2.8	2.4	2.8	2.4	2.7	3.3	2.1	3.2		

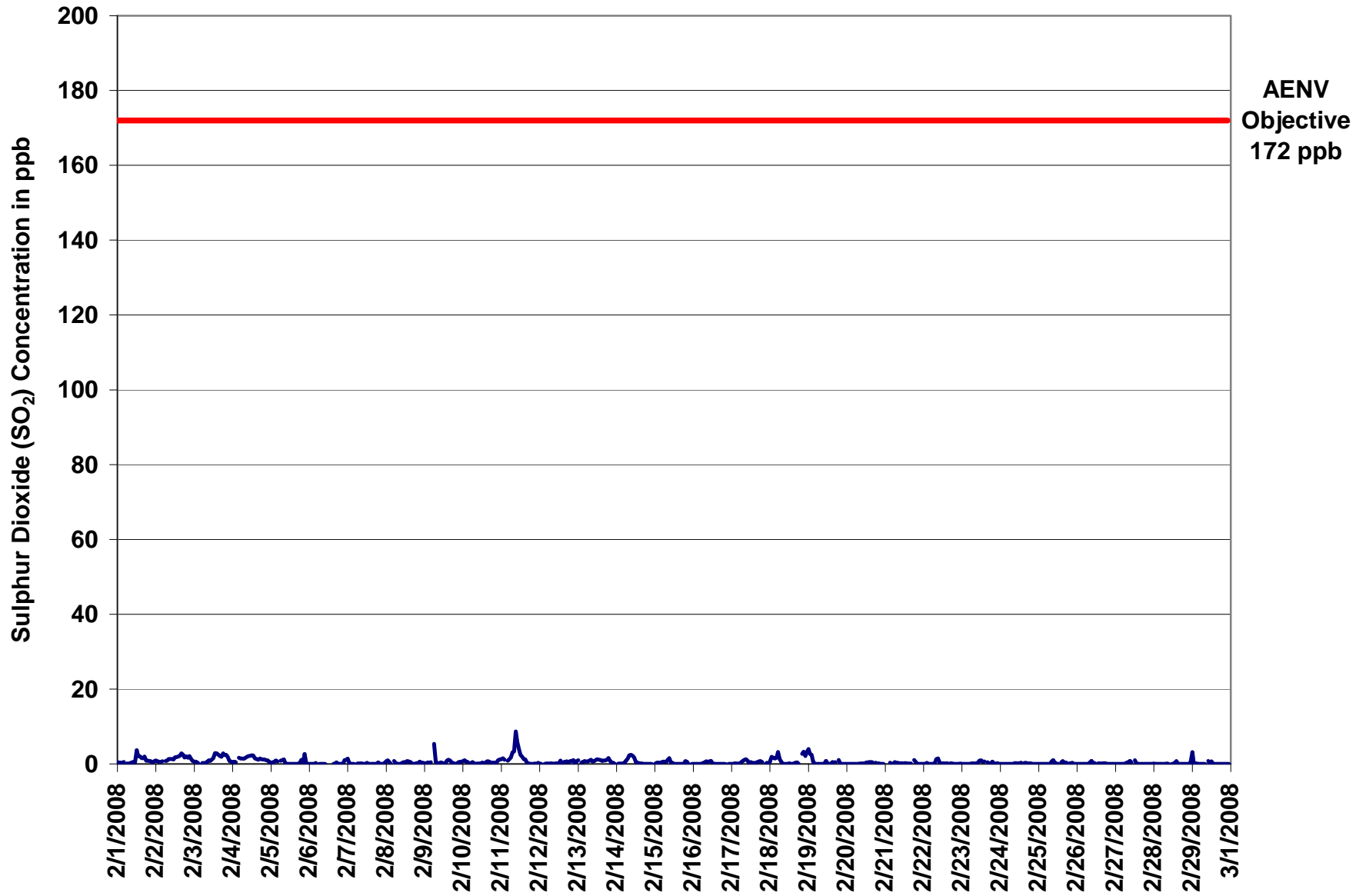


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

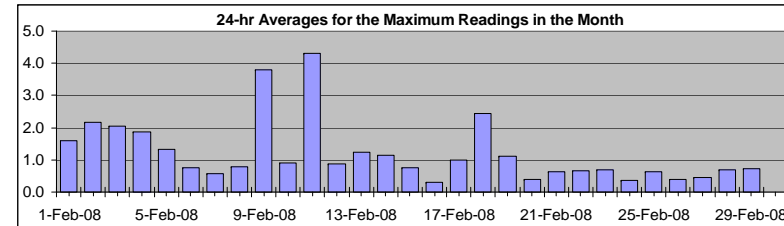
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	68.9	ppb	9-Feb	6:00 7:00
Maximum 24-hr Value:	4.3	ppb	11-Feb	



AIC Time:	30 hrs	Operational Time:	659 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.4	3.2	1.4	0.6	0.3	0.0	0.0	1.2 ppb	0.6 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-Feb-08	1	1	1	1	1	A	1	0	1	1	1	1	7	3	3	2	2	5	1	1	2	1	1	1	1.6	7.2
2-Feb-08	1	2	1	1	1	A	1	1	2	2	2	1	2	2	2	3	3	3	2	3	2	6	2	1	2.2	6.4
3-Feb-08	1	1	1	1	A	1	1	1	1	1	1	1	2	3	3	3	3	2	8	3	4	3	2	1	2.0	7.8
4-Feb-08	1	1	1	A	2	2	2	2	3	2	3	3	3	3	2	2	2	2	2	2	2	1	2	1	1.9	2.6
5-Feb-08	1	1	1	2	1	A	1	3	3	2	0	0	0	0	0	1	0	0	2	2	2	6	1	0	1.3	6.2
6-Feb-08	0	0	0	0	3	A	0	0	0	0	0	C	C	C	C	1	1	1	0	1	0	1	3	2	0.7	2.7
7-Feb-08	2	1	0	0	1	A	1	1	1	1	0	1	1	0	0	0	0	0	1	1	1	0	1	3	0.6	2.5
8-Feb-08	3	1	1	0	A	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0.8	3.2
9-Feb-08	1	1	1	1	1	A	69	1	1	1	1	1	1	1	2	2	2	1	1	0	0	1	1	1	3.8	68.9
10-Feb-08	1	1	1	1	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	3	1	1	2	0.9	2.7
11-Feb-08	2	2	2	A	2	2	2	6	7	43	13	5	3	2	1	2	1	0	0	0	0	0	0	1	4.3	42.8
12-Feb-08	1	1	A	0	0	0	0	1	1	0	1	0	2	2	1	1	2	1	1	1	1	2	0	2	0.9	2.2
13-Feb-08	2	A	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1	2	2	2	2	1	1	0	1.2	2.2
14-Feb-08	A	1	1	1	1	1	2	3	4	4	4	2	1	1	1	0	0	0	0	0	0	0	0	A	1.1	4.1
15-Feb-08	0	1	1	0	1	1	1	1	2	3	1	0	0	0	0	0	0	0	0	1	1	0	A	0	0.7	2.9
16-Feb-08	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0.3	1.0
17-Feb-08	0	0	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	2	A	0	1	0	1.0	2.5
18-Feb-08	4	4	2	2	4	6	2	2	0	0	0	0	1	0	0	1	1	2	2	A	6	5	8	5	2.4	8.0
19-Feb-08	5	4	3	2	1	0	0	0	1	0	1	1	1	0	1	1	1	1	A	3	1	0	0	0	1.1	5.1
20-Feb-08	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	A	1	0	1	0	0	0	0.4	1.0
21-Feb-08	P	P	P	1	1	0	2	1	1	1	1	1	1	1	1	1	1	A	2	1	0	1	0	1	0.6	2.0
22-Feb-08	0	1	1	1	0	0	1	1	2	2	1	1	1	1	0	1	A	1	1	0	0	0	0	1	0.7	2.4
23-Feb-08	0	0	0	0	0	1	0	0	0	0	1	2	1	1	1	A	1	1	1	2	2	1	1	0	0.7	1.9
24-Feb-08	0	0	0	0	1	0	0	0	0	0	1	0	1	0	A	1	0	0	1	0	0	0	0	0	0.4	1.4
25-Feb-08	0	0	0	0	0	0	0	0	3	3	1	0	1	A	1	1	1	1	0	1	1	1	0	0	0.6	3.3
26-Feb-08	0	0	0	0	0	0	0	0	2	1	1	1	A	1	1	0	1	1	0	0	0	0	0	0	0.4	1.6
27-Feb-08	0	0	0	0	0	0	0	1	1	2	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0.4	2.0
28-Feb-08	2	0	0	0	0	0	0	0	0	1	A	0	0	1	2	0	0	0	0	0	0	0	0	8	0.7	7.5
29-Feb-08	8	1	1	1	0	0	0	0	0	1	A	1	1	2	0	0	0	0	0	0	0	0	0	0	0.7	8.2
Hourly Avg	1.4	0.9	0.8	0.6	0.8	0.7	3.1	1.0	1.4	2.6	1.4	1.0	1.3	1.0	0.9	1.0	0.9	1.0	1.2	1.1	1.1	1.2	0.9	1.1		
Hourly Max	8.2	4.1	3.4	2.1	4.1	5.6	68.9	5.8	7.2	42.8	12.9	5.4	7.2	3.4	3.1	2.9	3.4	4.9	7.8	2.9	6.1	6.4	8.0	7.5		

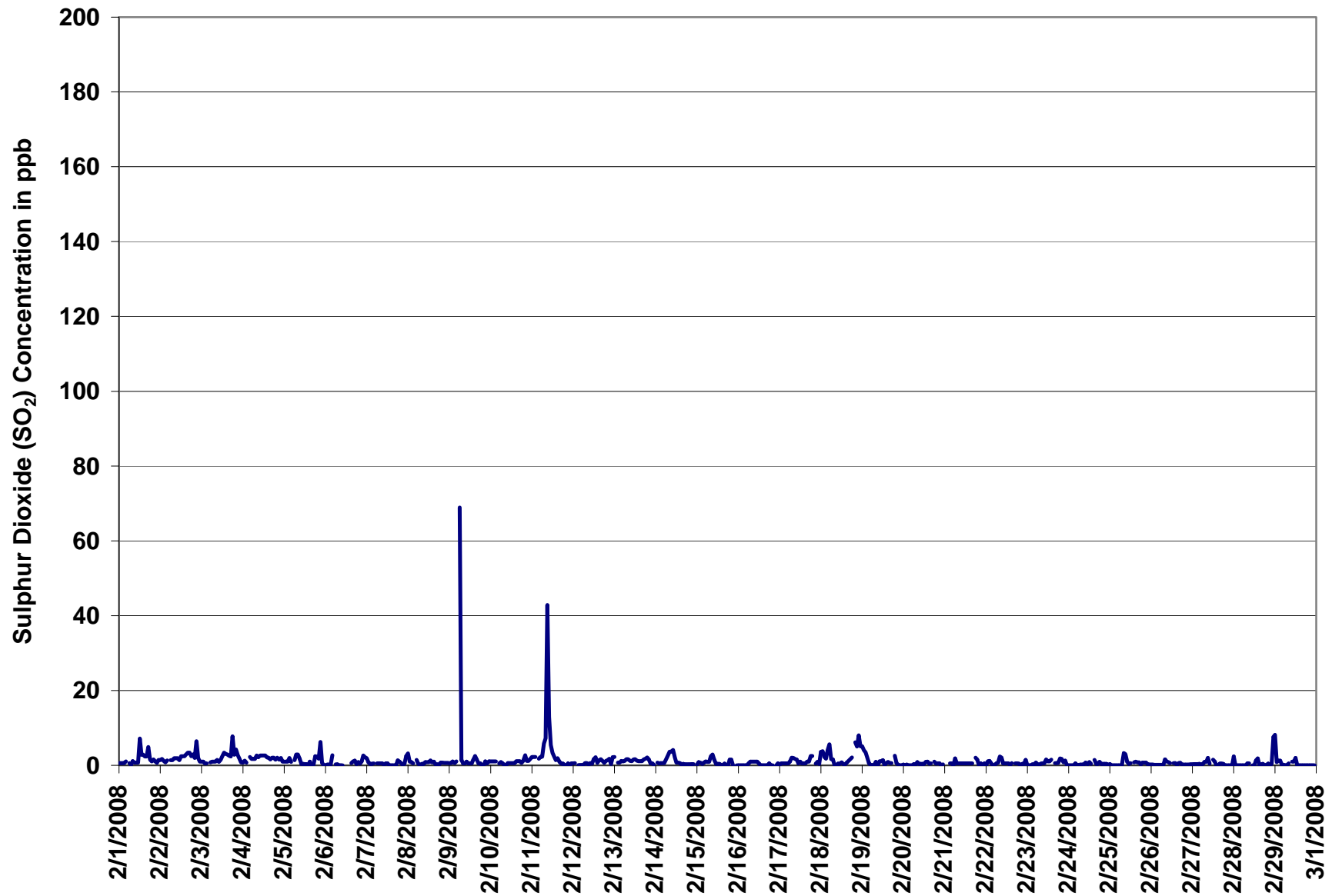
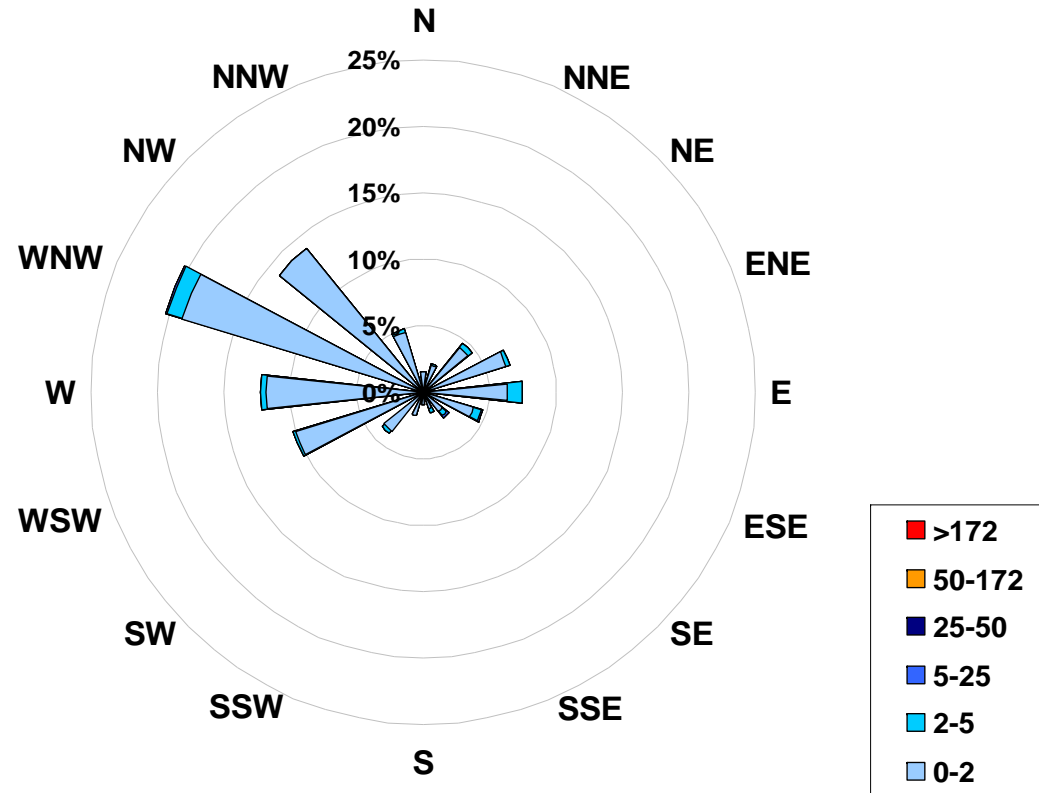


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	620
2	to	5	36
5	to	25	3
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			659

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

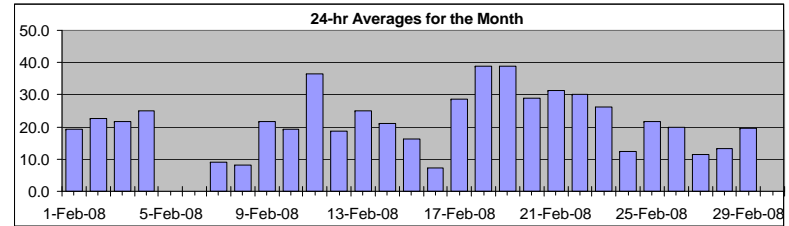
Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2008 to March 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:	65.6	ppb	11-Feb	11:00 12:00
Maximum 24-hr Average:	39.0	ppb	18-Feb	



AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.5	45.1	30.4	20.2	9.8	4.0	2.5	21.4 ppb	20.2 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	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-Feb-08	12	12	16	16	13	A	19	21	24	21	14	11	11	11	10	13	21	29	33	32	30	27	25	24		19.4	32.9
2-Feb-08	23	23	24	24	24	A	23	24	27	23	19	16	12	11	13	17	24	32	26	28	26	27	26	25		22.5	32.3
3-Feb-08	25	24	23	23	A	22	24	27	28	24	19	22	18	8	9	11	13	22	23	23	27	30	28	23		21.5	30.3
4-Feb-08	21	20	19	A	30	26	28	25	26	20	18	23	32	26	16	23	24	31	31	28	27	26	26	26		24.9	31.7
5-Feb-08	25	25	25	29	26	A	33	33	N	N	N	N	N	N	N	N	N	32	10	5	5	5	4	3		N	33.1
6-Feb-08	3	2	2	2	4	A	4	4	4	8	9	C	C	C	C	C	A	A	22	11	10	7	6	6		N	22.4
7-Feb-08	5	4	5	5	7	A	13	15	20	16	13	6	6	6	6	7	8	12	10	11	11	7	7	6		9.1	20.4
8-Feb-08	4	4	4	2	A	3	4	4	4	3	3	3	3	3	3	4	6	21	10	10	11	18	28	31		8.1	31.3
9-Feb-08	33	38	40	26	19	A	29	34	36	27	24	27	27	27	19	16	13	13	13	8	7	7	7	7		21.6	40.1
10-Feb-08	7	8	11	15	A	11	15	19	20	19	16	18	19	14	21	30	31	28	21	22	14	18	26	37		19.2	37.2
11-Feb-08	37	37	36	A	38	43	48	58	60	63	64	66	46	42	30	36	16	11	13	8	12	21	18	31		36.3	65.6
12-Feb-08	13	11	A	7	7	8	11	15	14	14	12	12	8	13	11	18	21	29	34	36	37	36	28	34		18.6	36.8
13-Feb-08	31	A	18	18	30	24	28	30	31	18	13	20	17	13	16	15	23	30	38	41	35	31	30	26		25.1	41.1
14-Feb-08	A	20	20	21	19	23	35	47	52	49	44	45	14	7	5	6	8	9	10	9	5	6	5	A		21.1	52.0
15-Feb-08	8	20	15	18	32	35	38	36	37	40	12	7	5	5	5	6	7	10	11	10	6	7	A	4		16.2	40.1
16-Feb-08	3	2	5	3	2	3	4	5	6	6	9	7	2	2	2	3	6	15	31	17	10	A	13	12		7.4	30.5
17-Feb-08	18	19	18	11	16	18	40	48	51	44	35	22	14	13	21	19	31	40	42	32	A	32	44	35		28.8	51.4
18-Feb-08	40	43	44	46	43	42	45	36	30	23	20	22	34	23	22	27	43	43	45	A	56	57	54	58		39.0	57.8
19-Feb-08	59	55	54	46	42	42	37	38	40	32	30	38	32	26	18	26	26	30	A	55	49	42	39	34		38.7	58.6
20-Feb-08	23	24	24	21	27	27	36	35	38	33	26	14	17	16	19	21	29	A	45	43	43	37	32	32		28.8	44.7
21-Feb-08	P	P	P	40	33	34	42	35	32	28	27	24	20	18	20	24	28	A	51	46	38	25	29	36		31.4	50.9
22-Feb-08	19	33	37	33	25	28	32	35	46	51	28	20	21	18	15	23	A	39	45	37	32	24	26	26		30.2	50.6
23-Feb-08	23	27	14	17	14	25	39	40	36	30	30	22	15	17	15	A	22	27	39	46	43	37	16	13		26.3	45.6
24-Feb-08	17	19	15	7	8	9	13	21	21	28	19	6	6	5	A	6	7	13	14	12	12	9	9	8		12.4	27.9
25-Feb-08	9	7	8	8	9	9	12	33	45	42	26	17	17	A	10	22	19	22	34	35	44	38	21	14		21.8	45.1
26-Feb-08	12	11	12	17	23	34	34	33	46	49	37	28	A	10	7	11	14	16	18	14	10	7	7	7		19.9	49.1
27-Feb-08	7	7	6	6	6	10	24	39	34	31	21	A	18	6	4	4	4	5	5	5	5	4	4	4		11.3	38.8
28-Feb-08	4	4	4	6	6	7	10	19	27	15	A	7	6	5	5	6	10	9	20	33	33	30	19	18		13.1	33.4
29-Feb-08	23	21	27	19	22	29	32	36	41	A	48	26	13	10	9	18	11	11	10	10	9	7	7	9		19.5	48.1
Hourly Avg	18.7	19.3	19.5	18.0	20.2	22.3	25.9	29.1	31.4	28.0	23.5	20.3	16.6	13.6	12.8	15.8	18.0	22.3	25.0	23.9	23.2	22.3	20.9	21.1			
Hourly Max	58.6	55.3	53.7	46.3	43.2	43.3	47.9	58.3	60.1	63.4	63.7	65.6	46.5	41.6	30.2	35.8	42.8	43.3	50.9	54.5	56.1	57.1	53.7	57.8			

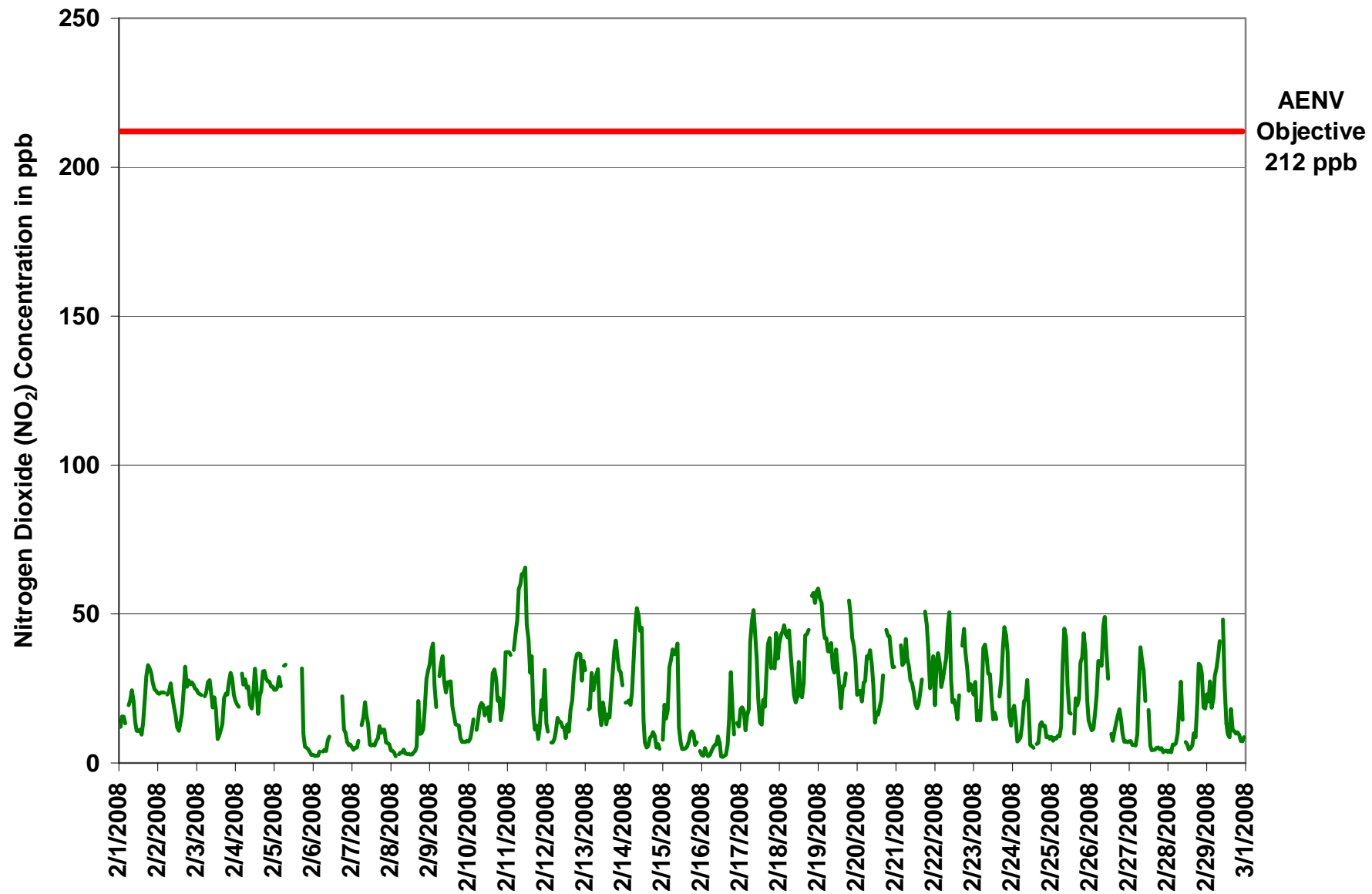


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

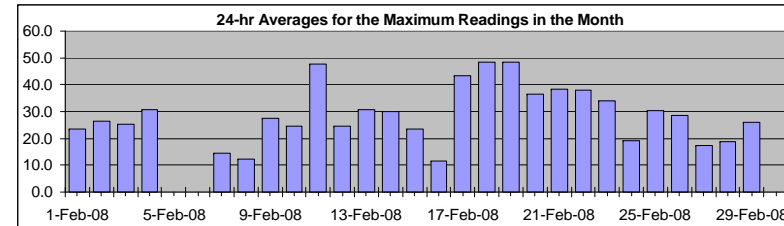
Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	112.7	ppb	17-Feb	7:00 8:00
Maximum 24-hr Value:	48.5	ppb	19-Feb	

AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	87.5	57.3	38.3	26.5	15.5	6.0	3.6	28.3 ppb	26.5 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-Feb-08	15	15	20	21	17	A	22	24	29	25	18	14	21	25	12	19	29	33	36	34	32	30	27	25	23.6	36.1
2-Feb-08	25	24	27	25	25	A	25	29	30	29	23	21	16	13	18	23	34	38	30	31	33	32	30	27	26.4	38.2
3-Feb-08	27	27	24	24	A	24	28	31	31	29	22	24	24	10	12	13	23	29	29	27	30	37	36	26	25.3	36.9
4-Feb-08	25	22	23	A	34	30	32	29	32	22	24	29	36	31	22	31	51	44	35	32	34	31	29	28	30.8	50.9
5-Feb-08	29	28	30	35	29	A	40	43	N	N	N	N	N	N	N	N	46	19	7	6	6	4	3	N	46.5	
6-Feb-08	3	3	4	6	7	A	5	7	6	11	15	C	C	C	C	A	A	32	16	16	11	10	10	N	32.4	
7-Feb-08	11	7	10	9	11	A	19	23	34	19	17	8	9	12	11	16	12	18	20	17	18	13	11	10	14.6	33.6
8-Feb-08	6	5	5	4	A	4	5	5	8	5	5	23	5	6	6	6	8	32	16	15	17	27	37	38	12.5	37.6
9-Feb-08	40	43	50	37	33	A	37	40	40	38	32	32	32	32	22	21	18	16	16	13	9	9	9	11	27.3	49.9
10-Feb-08	10	10	17	19	A	15	25	25	23	23	19	24	23	17	29	32	37	37	27	31	23	22	34	42	24.6	41.7
11-Feb-08	40	39	42	A	55	61	56	87	78	88	72	75	75	49	42	44	30	17	17	12	20	35	26	41	47.9	87.7
12-Feb-08	25	18	A	10	12	14	20	26	22	20	18	17	13	24	16	25	25	34	37	38	39	41	36	36	24.6	40.7
13-Feb-08	42	A	23	27	31	31	30	44	35	27	15	24	23	17	21	20	29	38	44	47	43	35	34	29	30.7	47.2
14-Feb-08	A	22	24	24	23	28	42	77	94	88	52	53	32	10	7	8	13	13	14	16	8	9	7	A	30.1	93.9
15-Feb-08	26	32	21	30	37	43	43	40	49	58	23	10	6	7	7	12	15	19	30	8	10	A	6	23.3	57.8	
16-Feb-08	4	4	7	6	3	4	6	8	7	8	12	12	5	3	4	4	18	30	36	33	13	A	21	16	11.4	36.0
17-Feb-08	31	32	27	15	24	29	44	113	109	92	50	28	18	19	27	26	38	46	50	43	A	44	48	43	43.3	112.7
18-Feb-08	49	48	49	50	47	45	63	47	35	34	26	30	41	39	29	42	54	52	50	A	65	64	63	91	48.4	90.9
19-Feb-08	65	60	58	53	47	59	40	66	50	41	44	44	54	31	25	39	45	38	A	64	60	50	42	41	48.5	65.9
20-Feb-08	28	31	46	27	36	40	58	38	43	36	41	17	22	21	27	30	40	A	48	44	49	40	37	40	36.5	57.9
21-Feb-08	P	P	P	43	37	39	60	42	34	33	33	29	25	22	26	32	39	A	56	55	42	38	41	42	38.4	59.9
22-Feb-08	25	38	40	39	28	32	35	41	76	60	39	30	24	22	18	31	A	48	49	49	38	32	41	36	37.8	75.5
23-Feb-08	32	32	20	21	17	49	44	43	40	36	36	39	22	22	23	A	29	38	52	51	50	45	22	17	33.9	52.3
24-Feb-08	26	25	26	9	11	11	18	26	27	32	30	13	9	16	A	13	11	21	17	23	23	17	20	15	19.2	32.4
25-Feb-08	22	11	13	14	16	12	17	40	70	66	33	23	19	A	15	27	32	32	41	44	47	46	36	23	30.4	70.3
26-Feb-08	17	17	21	26	49	48	46	45	64	55	48	45	A	16	10	14	17	21	23	22	15	12	14	10	28.5	64.1
27-Feb-08	17	13	9	9	15	21	41	49	43	39	32	A	33	11	7	6	7	7	7	8	8	6	5	6	17.3	48.7
28-Feb-08	6	6	5	8	9	11	14	33	42	22	A	10	9	7	8	10	12	13	36	40	41	35	33	23	18.8	41.7
29-Feb-08	28	30	36	23	28	36	34	44	44	A	52	53	17	16	21	27	15	13	13	16	14	12	13	12	26.1	53.0
Hourly Avg	24.9	23.8	25.0	22.7	26.3	29.9	32.6	40.1	42.8	38.4	30.8	28.0	23.5	19.2	17.8	21.8	26.1	29.6	31.0	30.7	28.6	28.1	27.3	26.7		
Hourly Max	65.3	59.7	57.9	53.0	55.4	60.7	63.3	112.7	108.8	91.7	72.3	74.9	74.5	48.7	42.3	43.6	54.4	52.2	56.2	63.8	64.8	64.4	63.0	90.9		

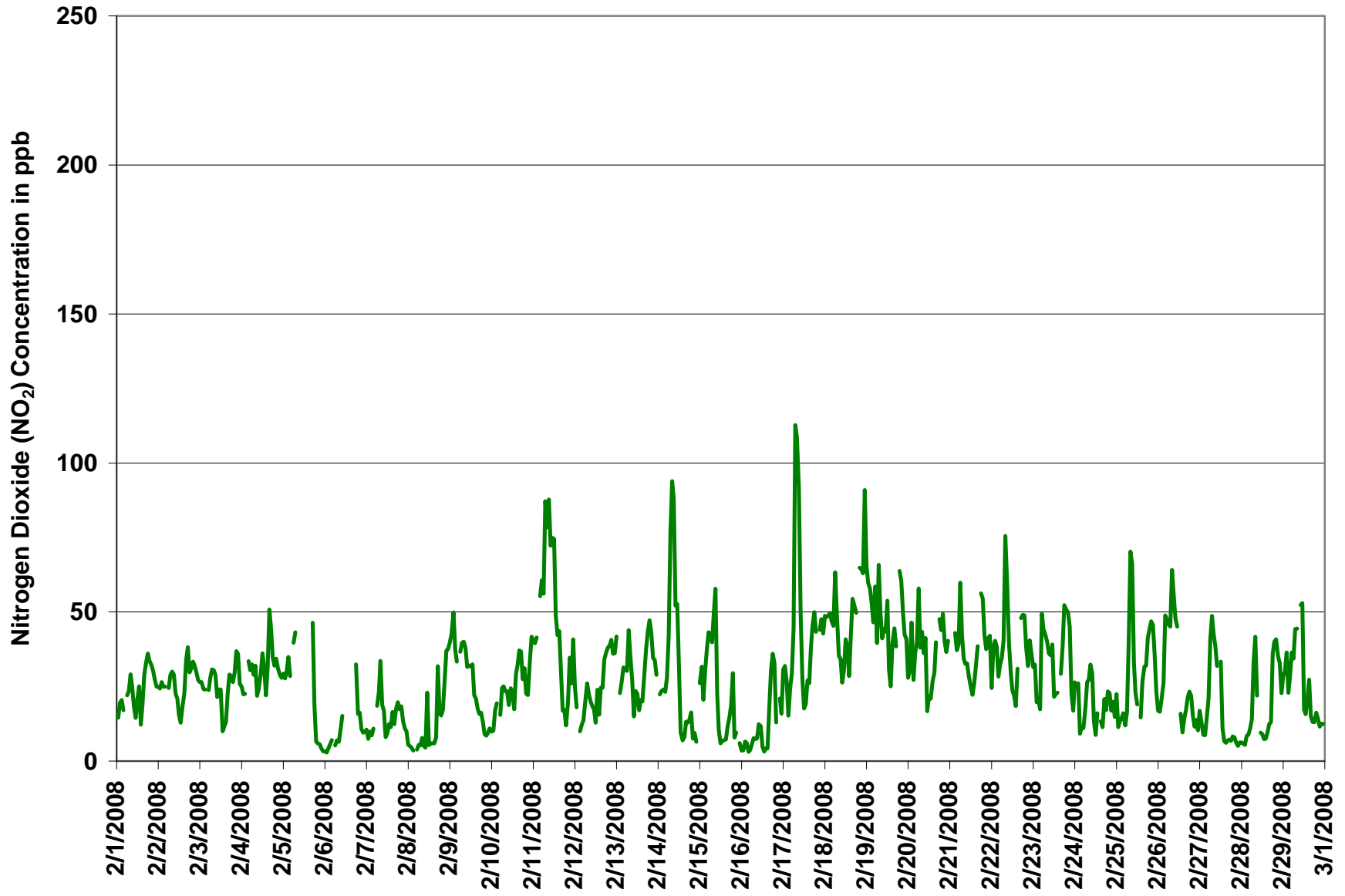
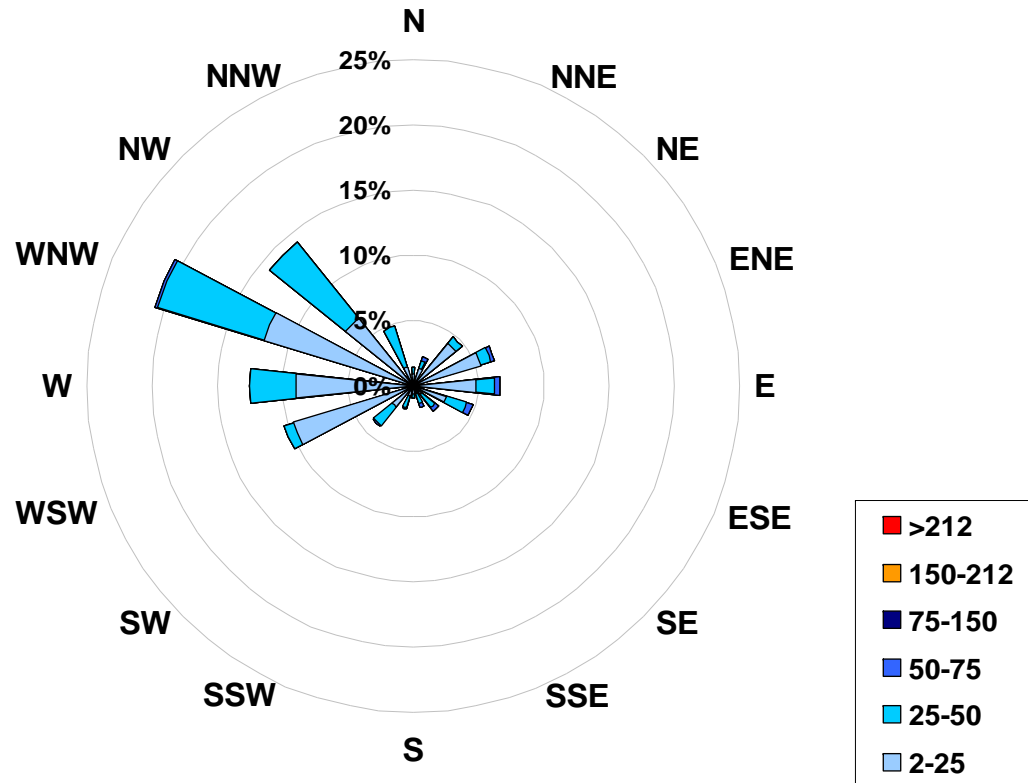


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb Range			Frequency (hrs)
2.0	<	25	489
25	to	50	89
50	to	75	31
75	to	150	25
150	to	212	13
	>	212	0
Total Non-Zero Values			647

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

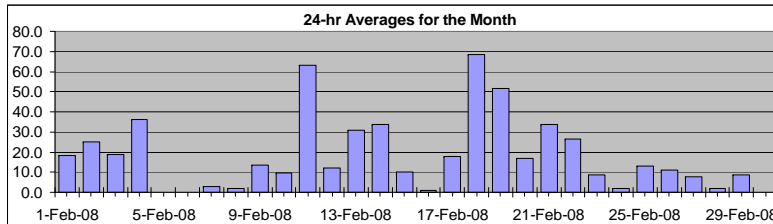
Monitoring Dates: February 1, 2008 to March 1, 2008

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
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Maximum 1-hr Average:	200.1	ppb	18-Feb	21:00 22:00
Maximum 24-hr Average:	68.4	ppb	18-Feb	

AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	173.7	78.4	23.8	6.7	1.3	0.2	0.0	19.7 ppb	6.7 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																								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-Feb-08	1	1	1	1	1	A	2	3	10	15	14	13	14	15	11	14	20	31	63	65	59	35	18	11		18.1	65.0
2-Feb-08	7	6	8	9	14	A	13	19	40	32	35	35	23	18	22	23	39	65	24	29	21	32	31	35		25.3	65.3
3-Feb-08	30	23	12	10	A	6	12	19	16	16	14	28	23	7	7	7	9	10	9	25	72	53	19		18.8	72.1	
4-Feb-08	8	4	4	A	37	18	31	21	32	21	28	45	76	55	28	42	34	59	76	42	43	48	42	41		36.2	76.0
5-Feb-08	36	28	25	46	26	A	49	50	N	N	N	N	N	N	N	N	N	15	1	1	0	0	0	0		N	50.4
6-Feb-08	0	0	0	0	2	A	1	1	1	2	5	C	C	C	C	C	A	A	4	2	3	2	2	3		N	5.1
7-Feb-08	2	1	1	1	1	A	2	2	6	5	6	3	4	4	3	5	4	7	3	2	1	1	1	1		2.9	6.7
8-Feb-08	0	0	0	0	A	1	1	1	1	1	2	3	2	2	2	2	2	7	2	2	1	2	5	7		2.1	7.2
9-Feb-08	6	13	20	5	2	A	10	16	29	28	25	35	38	37	17	11	7	4	3	2	2	2	2	2		13.7	37.6
10-Feb-08	2	2	2	1	A	1	1	2	3	8	11	16	21	13	23	33	28	12	2	2	1	1	4	32		9.5	33.0
11-Feb-08	44	48	48	A	59	92	123	185	177	177	161	164	63	47	21	33	5	1	1	0	0	1	0	3		63.2	184.7
12-Feb-08	2	1	A	1	2	1	3	5	3	5	6	8	5	11	7	12	12	9	14	32	42	45	9	42		11.9	45.4
13-Feb-08	29	A	1	1	14	6	9	16	37	13	11	26	20	12	17	14	22	32	88	141	80	55	52	16		30.9	141.2
14-Feb-08	A	1	1	1	1	6	45	106	175	172	121	90	8	3	2	2	2	1	1	0	1	1	0	A		33.6	174.8
15-Feb-08	0	1	0	0	2	8	19	22	65	91	7	4	3	3	2	3	2	2	1	1	0	0	A	0		10.3	91.0
16-Feb-08	0	0	0	0	0	0	0	0	1	1	3	3	1	1	1	1	2	2	3	1	0	A	1	1		1.0	3.3
17-Feb-08	1	0	0	0	0	0	16	42	54	69	54	20	10	10	16	9	18	23	21	9	A	4	20	8		17.7	69.5
18-Feb-08	28	64	95	100	77	52	78	82	33	24	18	14	33	20	12	18	40	42	21	A	170	200	164	191		68.4	200.1
19-Feb-08	183	139	137	79	39	49	49	45	64	47	34	41	34	21	11	14	10	5	A	81	57	25	13	8		51.5	182.9
20-Feb-08	1	1	4	1	3	5	16	34	60	51	31	12	15	13	14	12	17	A	28	26	32	10	4	4		17.1	60.0
21-Feb-08	P	P	P	42	13	24	74	71	64	39	36	27	18	16	16	19	19	A	100	66	14	2	3	8		33.7	100.4
22-Feb-08	1	3	10	8	2	12	43	51	144	153	44	27	26	17	9	13	A	20	16	5	2	1	1	1		26.5	153.4
23-Feb-08	0	1	0	0	0	2	11	24	17	21	28	17	6	7	5	A	6	5	8	12	15	10	1	1		8.6	27.9
24-Feb-08	0	0	0	0	0	0	0	1	3	17	8	2	2	2	A	2	1	2	1	1	2	2	2	1		2.1	16.6
25-Feb-08	1	0	0	1	1	1	1	7	66	86	28	14	13	A	6	16	8	5	4	5	16	16	2	0		12.9	86.1
26-Feb-08	0	0	0	0	2	2	8	8	55	83	40	27	A	5	3	4	3	2	2	2	1	1	1	0		10.9	82.9
27-Feb-08	1	0	0	0	0	1	9	33	44	44	17	A	19	3	1	1	1	1	0	0	0	0	0	0		7.7	44.2
28-Feb-08	0	0	0	0	0	0	0	2	9	6	A	3	4	3	2	2	3	1	1	2	6	4	1	0		2.2	9.4
29-Feb-08	1	0	1	0	0	0	3	16	58	A	78	24	7	3	2	4	1	0	0	0	0	0	0	0		8.6	77.9

Hourly Avg	14.2	12.5	13.8	11.4	11.4	12.4	21.6	30.5	45.3	45.5	32.1	26.9	18.7	13.4	10.0	12.1	12.1	13.8	17.7	19.3	21.3	20.5	15.4	15.5			
Hourly Max	182.9	138.8	136.5	99.5	76.6	92.1	122.7	184.7	177.2	176.7	160.8	164.1	75.5	55.0	27.7	41.7	39.8	65.3	100.4	141.2	170.1	200.1	163.5	190.7			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

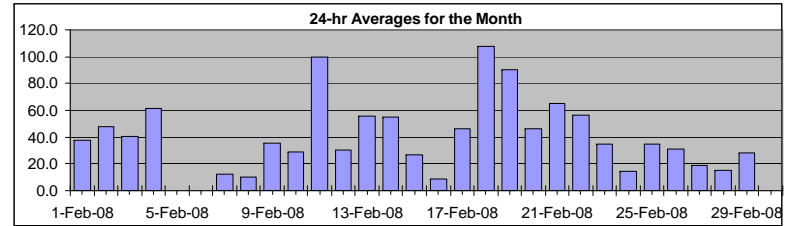
Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	258.2	ppb	18-Feb	21:00 22:00
Maximum 24-hr Average:	107.8	ppb	18-Feb	

AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	228.9	121.8	53.8	28.2	11.5	4.7	2.8	41.1 ppb	28.2 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	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		
1-Feb-08	13	13	17	17	14	A	21	24	35	36	28	24	25	26	20	27	42	60	96	97	89	62	43	35	37.5	96.8	
2-Feb-08	31	30	31	32	38	A	36	44	67	55	54	51	35	29	36	39	64	98	49	57	48	59	58	60	47.8	97.7	
3-Feb-08	55	47	35	33	A	28	35	46	44	40	33	50	41	15	16	18	20	31	33	32	52	103	82	42	40.5	102.6	
4-Feb-08	30	24	23	A	67	45	59	47	57	40	47	68	107	81	44	64	58	89	107	70	71	76	68	66	61.3	107.4	
5-Feb-08	61	52	51	75	52	A	81	84	N	N	N	N	N	N	N	N	N	47	11	6	6	5	4	3	N	83.5	
6-Feb-08	3	2	3	3	5	A	4	5	5	10	14	C	C	C	C	C	A	A	26	13	13	9	8	9	N	26.2	
7-Feb-08	7	5	6	6	8	A	14	17	26	21	20	10	10	10	9	12	12	19	14	13	13	8	8	7	12.1	26.1	
8-Feb-08	4	4	4	3	A	3	4	4	6	4	5	6	5	5	6	6	8	28	11	11	13	20	34	38	10.2	38.1	
9-Feb-08	39	51	60	31	20	A	39	49	65	55	49	62	65	64	36	26	19	16	15	10	9	9	9	9	35.2	64.9	
10-Feb-08	9	10	12	16	A	11	16	21	23	28	27	34	39	27	44	63	60	40	23	24	15	18	29	69	28.6	69.4	
11-Feb-08	81	85	84	A	97	136	171	244	238	241	225	230	109	89	51	69	22	12	14	8	12	23	18	34	99.7	243.6	
12-Feb-08	15	12	A	8	9	9	14	20	17	19	18	19	14	23	17	30	33	37	48	68	78	82	37	76	30.5	81.9	
13-Feb-08	60	A	19	19	44	30	37	46	68	31	23	46	37	25	33	29	45	62	126	182	115	87	82	42	56.0	182.5	
14-Feb-08	A	21	22	22	21	30	80	153	227	222	166	135	22	9	7	8	10	10	11	10	6	7	5	A	54.7	227.3	
15-Feb-08	8	20	15	18	34	42	57	59	102	131	19	11	7	7	7	8	10	11	11	11	6	7	A	4	26.5	131.5	
16-Feb-08	3	3	5	4	3	3	4	5	7	7	12	10	3	3	4	4	8	17	33	18	10	A	14	13	8.3	33.2	
17-Feb-08	19	19	18	11	16	18	56	90	106	114	89	42	24	23	37	28	50	63	63	41	A	36	64	43	46.5	113.7	
18-Feb-08	68	107	140	146	120	94	122	119	64	47	39	36	67	43	34	45	83	86	66	A	227	258	218	249	107.8	258.2	
19-Feb-08	242	195	191	125	82	91	87	83	105	80	65	80	67	47	29	40	36	35	A	136	107	67	52	43	90.6	242.3	
20-Feb-08	24	24	28	21	30	32	52	70	98	84	58	26	32	29	33	33	46	A	73	69	75	47	36	36	45.9	98.1	
21-Feb-08	P	P	P	82	46	58	116	107	96	67	63	51	38	34	36	43	48	A	152	112	52	27	32	44	65.2	151.6	
22-Feb-08	20	36	47	41	27	40	74	87	191	204	72	47	48	35	24	35	A	59	61	42	33	25	27	27	56.6	204.3	
23-Feb-08	23	28	14	18	14	27	50	64	53	51	58	39	21	24	20	A	28	32	47	57	58	48	17	13	34.9	63.5	
24-Feb-08	18	20	15	7	8	9	13	21	24	44	26	7	7	7	A	8	8	14	15	13	14	10	10	9	14.3	44.4	
25-Feb-08	9	8	9	9	10	9	13	40	112	128	54	31	30	A	16	38	28	27	38	40	60	54	23	14	34.8	128.4	
26-Feb-08	13	11	12	17	25	37	43	41	101	132	78	55	A	15	11	15	17	18	20	16	11	8	8	7	30.9	132.4	
27-Feb-08	8	8	6	6	6	10	33	72	78	76	38	A	36	9	6	6	6	6	6	5	5	4	4	4	19.1	78.3	
28-Feb-08	4	4	4	6	6	7	10	21	37	20	A	10	10	7	7	8	13	10	21	35	39	34	20	18	15.3	39.1	
29-Feb-08	23	20	28	18	21	29	35	52	99	A	126	49	20	13	11	22	12	11	10	10	9	7	7	8	27.9	126.2	

Hourly Avg	33.0	31.8	33.3	29.5	31.7	34.8	47.5	59.7	76.8	73.6	55.7	47.3	35.3	27.0	22.8	28.0	30.1	36.1	42.8	43.2	44.5	42.8	36.3	36.6
Hourly Max	242.3	194.8	190.9	146.2	120.2	135.8	171.0	243.6	237.9	240.7	225.0	230.3	109.5	89.0	51.4	69.0	83.1	97.7	151.6	182.5	227.1	258.2	218.1	249.3

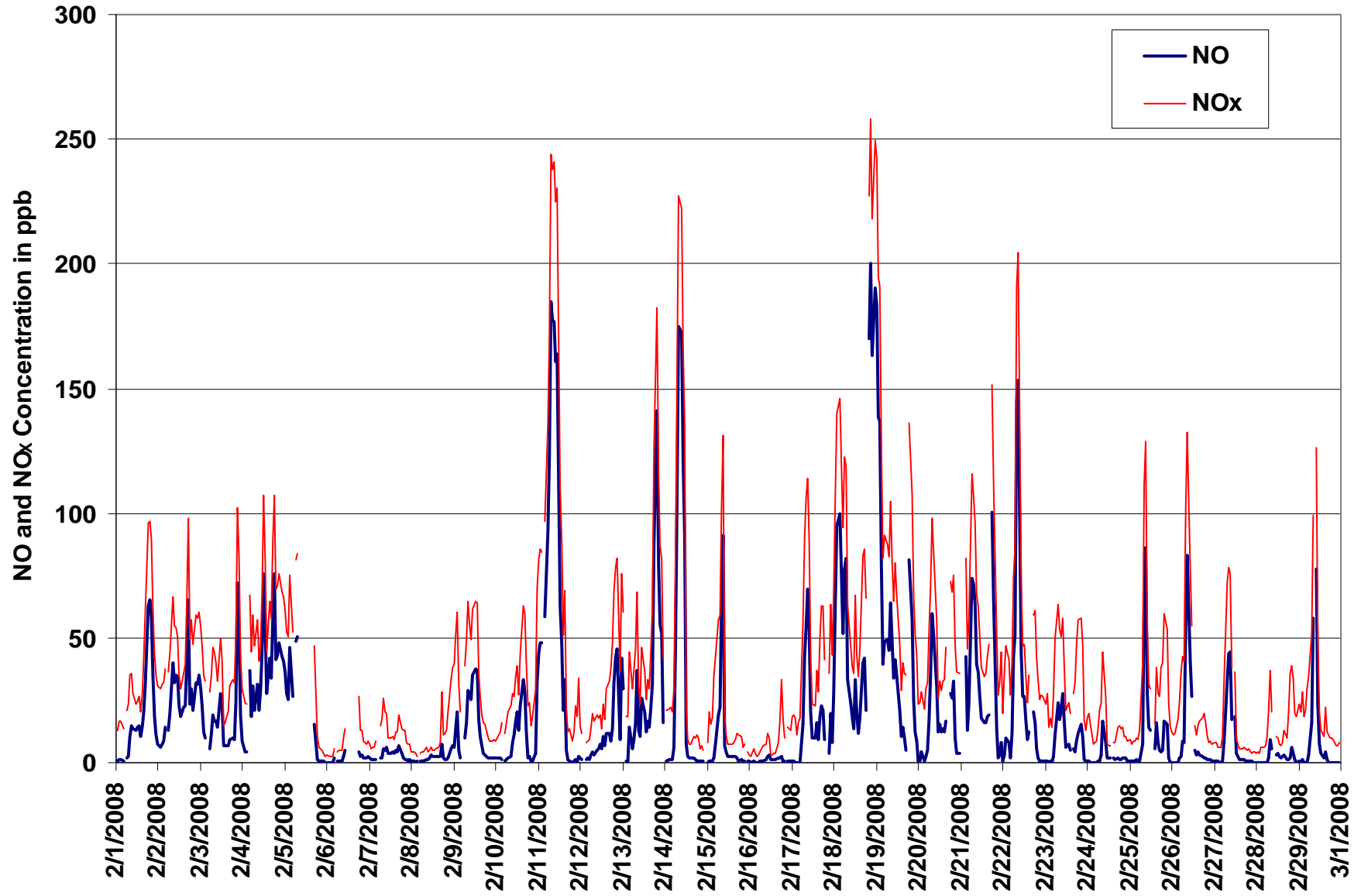


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

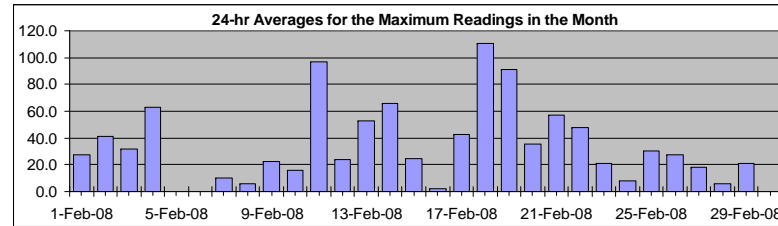
Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	399.7	ppb	14-Feb	9:00 10:00
Maximum 24-hr Value:	110.5	ppb	18-Feb	

AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	270.5	147.8	45.4	16.1	3.9	0.5	0.4	36.3 ppb	16.1 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

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-Feb-08	2	2	3	4	1	A	3	6	28	21	18	20	30	35	17	24	33	50	89	78	69	55	31	18	27.8	89.4
2-Feb-08	19	11	14	14	28	A	20	27	56	47	42	49	34	23	39	37	78	102	52	47	53	58	53	54	41.6	101.8
3-Feb-08	44	36	19	15	A	9	50	30	21	31	23	34	36	10	12	9	16	15	16	17	43	113	98	37	31.9	112.9
4-Feb-08	23	10	15	A	61	35	54	38	99	32	52	66	89	71	40	71	66	165	115	62	76	70	64	73	63.0	165.2
5-Feb-08	69	45	57	79	38	A	83	99	N	N	N	N	N	N	N	N	N	77	3	2	1	1	1	0	N	98.6
6-Feb-08	1	0	3	6	7	A	1	2	2	4	11	C	C	C	C	A	A	11	14	12	15	6	14	N	N	15.3
7-Feb-08	12	4	5	8	2	A	5	8	22	10	14	6	6	17	11	19	14	19	11	8	6	10	2	3	9.8	22.5
8-Feb-08	1	0	0	1	A	1	2	1	4	2	3	34	5	5	5	4	3	15	4	4	4	6	13	18	6.0	33.8
9-Feb-08	17	24	47	15	7	A	28	29	47	45	44	46	46	46	21	19	15	6	4	4	2	3	3	3	22.7	47.2
10-Feb-08	2	2	4	3	A	1	4	4	6	11	18	26	26	17	36	37	36	37	5	8	2	3	11	61	15.8	60.8
11-Feb-08	66	61	72	A	129	142	151	298	290	235	204	228	133	77	42	53	16	2	2	1	1	9	2	9	96.8	297.8
12-Feb-08	12	4	A	7	12	9	18	21	7	15	16	16	11	27	11	22	16	13	28	47	58	74	42	60	23.8	74.4
13-Feb-08	84	A	3	4	18	13	15	48	50	34	14	35	33	19	24	24	33	61	140	190	151	105	78	41	53.0	189.5
14-Feb-08	A	3	3	5	3	17	74	180	375	400	211	125	29	4	3	2	4	3	1	1	1	1	1	A	65.7	399.7
15-Feb-08	1	3	1	2	4	25	42	43	190	203	16	7	3	4	4	4	3	3	2	4	1	1	A	1	24.6	203.5
16-Feb-08	1	1	1	0	1	1	1	1	1	2	5	7	3	2	2	2	6	5	12	2	1	A	1	2	2.4	11.7
17-Feb-08	2	3	1	0	1	1	41	176	149	126	111	33	16	19	24	14	33	42	46	48	A	17	44	40	43.0	175.6
18-Feb-08	54	102	149	117	99	60	141	157	58	55	30	18	52	52	16	48	86	108	58	A	281	271	233	296	110.5	295.7
19-Feb-08	240	179	167	130	70	80	70	77	145	100	70	62	94	30	19	30	34	8	A	245	128	70	23	21	90.9	244.6
20-Feb-08	3	3	97	2	14	34	32	66	101	71	68	17	23	18	22	20	37	A	43	43	47	26	11	12	35.3	101.1
21-Feb-08	P	P	P	66	30	43	117	106	90	56	51	37	27	23	27	36	37	A	158	150	28	16	21	26	57.4	157.8
22-Feb-08	1	8	31	22	8	33	71	112	270	191	82	57	33	26	15	22	A	40	32	26	5	3	5	9	48.0	270.4
23-Feb-08	1	2	1	1	3	31	29	33	29	33	47	44	14	14	9	A	11	10	43	32	51	33	9	9	21.2	51.1
24-Feb-08	2	1	1	1	1	1	1	2	7	33	20	9	3	10	A	8	6	9	7	9	14	11	17	8	7.8	33.4
25-Feb-08	13	1	1	4	8	1	2	23	203	180	47	24	16	A	9	22	17	9	14	21	31	34	14	0	30.3	202.5
26-Feb-08	1	0	2	2	26	18	23	49	146	122	75	66	A	18	5	8	6	14	10	15	9	8	10	4	27.8	145.8
27-Feb-08	9	1	1	0	1	9	31	94	71	85	42	A	52	9	2	2	2	1	1	1	1	1	0	0	18.2	94.1
28-Feb-08	0	0	0	0	0	0	1	10	25	9	A	5	5	5	3	3	4	3	3	4	22	18	7	2	5.8	24.9
29-Feb-08	10	0	6	1	1	4	8	106	78	A	101	95	12	8	18	14	3	4	0	3	1	5	0	0	20.8	106.0
Hourly Avg	25.6	18.9	26.1	18.8	22.1	24.7	38.6	63.7	91.8	79.8	53.1	44.9	31.9	22.7	16.8	21.3	23.8	31.6	32.5	38.8	39.3	37.0	28.7	29.4		
Hourly Max	240.0	178.7	167.1	129.9	129.3	142.3	151.3	297.8	374.8	399.7	210.7	227.9	132.6	77.4	41.6	71.2	86.0	165.2	157.8	244.6	280.9	270.5	233.2	295.7		

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

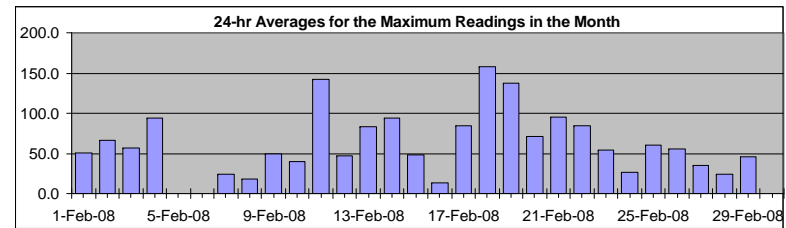
Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	474.4	ppb	14-Feb	9:00 10:00
Maximum 24-hr Value:	157.9	ppb	18-Feb	

AIC Time:	32 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	337.5	201.6	82.3	42.9	21.3	7.2	4.1	63.7 ppb	42.9 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-Feb-08	17	17	23	24	18	A	26	30	54	43	36	34	50	59	28	43	57	83	125	110	101	86	57	43	50.5	124.5
2-Feb-08	44	35	39	38	52	A	44	51	86	76	65	71	49	36	57	57	112	139	79	75	86	86	79	81	66.8	139.3
3-Feb-08	70	60	42	38	A	32	77	58	50	60	44	58	60	20	23	21	37	44	44	43	72	148	132	63	56.5	148.2
4-Feb-08	48	32	38	A	95	66	86	66	131	53	76	95	125	102	62	103	117	209	145	94	111	100	93	102	93.4	209.4
5-Feb-08	99	73	86	113	67	A	121	141	N	N	N	N	N	N	N	N	117	21	9	6	7	5	3	N	140.8	
6-Feb-08	4	3	8	12	14	A	6	8	8	15	26	C	C	C	C	A	A	43	25	24	25	15	21	N	43.4	
7-Feb-08	21	10	15	17	13	A	22	28	55	29	28	14	16	29	22	36	25	36	29	25	25	21	12	13	23.5	54.9
8-Feb-08	6	6	5	4	A	5	7	6	12	7	7	57	10	11	10	10	10	47	19	19	21	33	49	56	18.2	57.1
9-Feb-08	56	65	97	52	40	A	62	66	85	83	76	78	77	79	42	40	32	22	20	16	11	11	12	13	49.4	97.0
10-Feb-08	12	12	20	22	A	16	28	28	29	34	37	50	49	35	66	69	73	75	32	39	24	25	45	102	40.1	101.9
11-Feb-08	105	98	114	A	183	195	208	384	368	309	269	301	203	126	84	97	46	19	19	13	21	44	27	50	142.8	384.0
12-Feb-08	37	23	A	17	24	17	35	41	29	35	34	33	23	50	27	47	40	47	64	84	97	114	77	96	47.5	113.9
13-Feb-08	124	A	26	31	49	43	45	90	82	61	29	58	54	36	45	43	62	97	182	234	193	138	109	70	82.6	233.8
14-Feb-08	A	25	26	29	26	45	116	257	448	474	264	177	62	14	10	10	17	17	15	18	8	10	7	A	94.3	474.4
15-Feb-08	27	34	21	32	42	68	83	83	239	262	39	17	10	10	11	11	15	17	21	34	8	10	A	7	47.8	262.1
16-Feb-08	4	4	7	6	4	4	6	8	8	9	17	19	8	5	6	6	24	35	46	35	13	A	22	17	13.6	46.3
17-Feb-08	32	35	28	15	25	30	81	288	233	195	162	61	33	39	51	40	72	87	96	88	A	60	92	82	83.8	288.0
18-Feb-08	102	148	198	165	145	103	199	204	91	90	56	42	93	91	44	91	140	159	105	A	346	336	297	388	157.9	387.8
19-Feb-08	304	239	223	181	112	139	107	132	192	141	115	105	148	61	45	68	78	44	A	306	188	120	64	61	137.9	306.2
20-Feb-08	31	33	144	29	50	72	86	104	145	106	109	34	45	39	49	49	77	A	89	87	92	66	48	52	71.1	144.7
21-Feb-08	P	P	P	109	66	82	177	148	123	89	84	66	52	45	54	68	72	A	209	205	70	54	62	66	95.1	209.4
22-Feb-08	26	46	71	61	36	65	105	150	339	249	118	87	56	47	34	50	A	88	80	75	43	33	46	40	84.4	339.2
23-Feb-08	32	34	20	21	20	79	71	76	69	69	82	82	34	36	30	A	40	45	94	83	100	75	29	24	54.1	100.0
24-Feb-08	28	26	27	9	12	12	18	28	32	66	49	22	12	26	A	20	16	27	23	31	37	27	37	22	26.4	65.7
25-Feb-08	35	13	15	17	21	13	17	63	272	246	79	47	36	A	24	49	49	40	55	65	78	79	50	23	60.3	272.5
26-Feb-08	18	17	22	27	76	66	68	89	210	178	123	112	A	32	14	22	22	35	32	36	22	19	22	15	55.5	210.5
27-Feb-08	26	13	10	9	16	30	70	141	114	124	74	A	86	21	9	8	9	9	7	9	9	7	5	6	35.2	141.0
28-Feb-08	6	6	6	8	9	11	15	40	67	31	A	15	14	12	11	13	16	16	39	44	62	53	40	24	24.2	66.5
29-Feb-08	37	30	42	23	28	40	42	150	122	A	152	148	28	24	38	41	17	17	13	19	14	16	12	12	46.4	152.4
Hourly Avg	50.0	42.0	50.8	41.1	47.8	53.5	70.0	102.1	131.9	116.1	83.4	72.4	55.1	41.7	34.5	42.8	49.1	60.4	62.4	68.5	67.2	64.4	55.2	55.4		
Hourly Max	303.6	239.4	223.0	181.3	182.6	195.0	208.1	384.0	448.0	474.4	268.8	300.8	202.7	126.4	84.0	102.7	139.8	209.4	209.4	306.2	345.9	335.6	296.9	387.8		

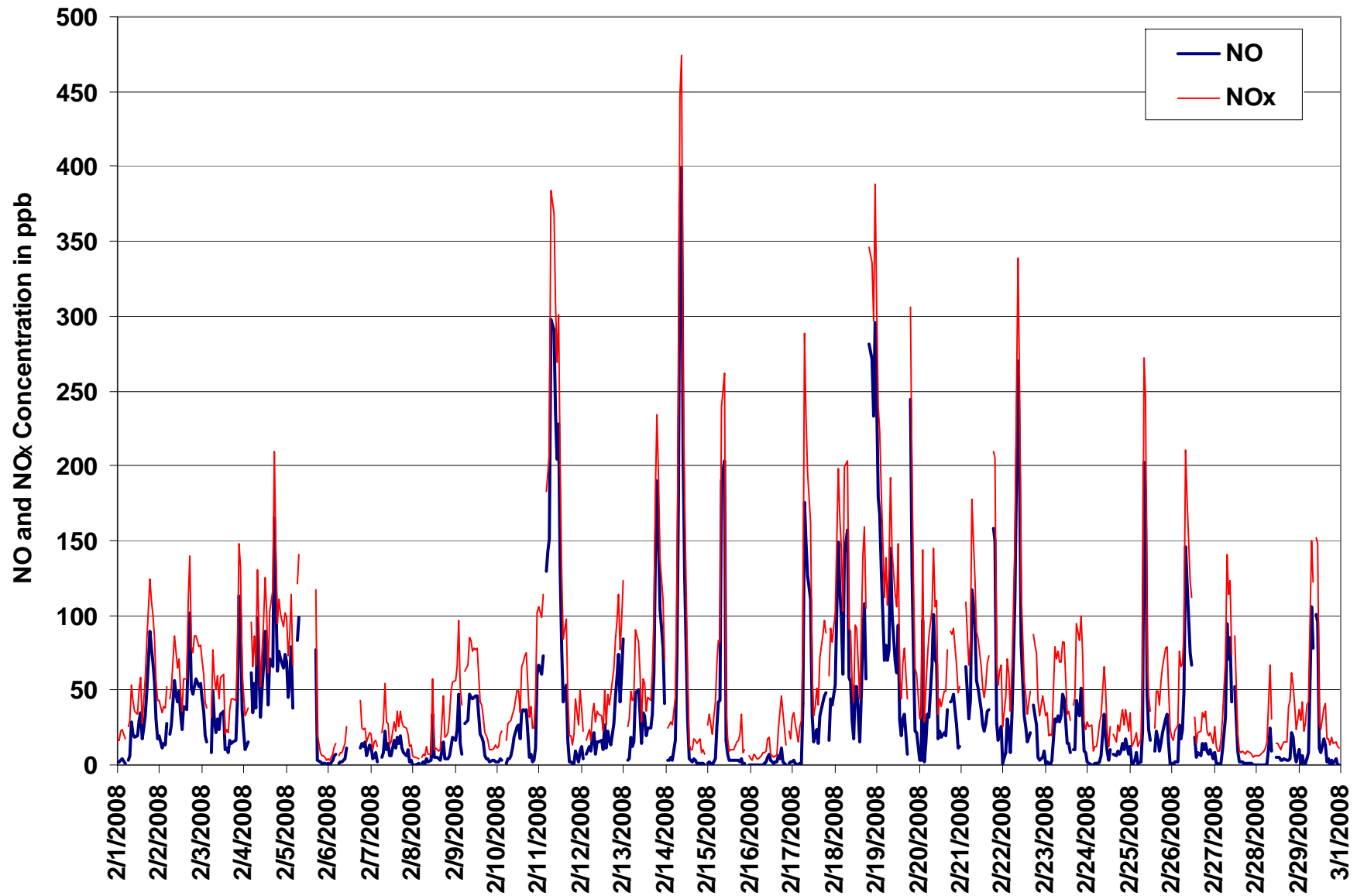


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

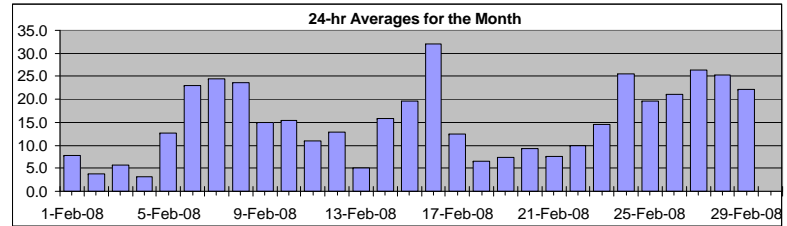
Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	39.8 ppb	27-Feb	15:00 16:00
Maximum 24-hr Average:	32.0 ppb	16-Feb	

AIC Time:	31 hrs	Operational Time:	659 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.9	34.5	25.6	15.2	2.7	0.0	0.0	15.1 ppb	15.2 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	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		
1-Feb-08	13	13	10	10	11	A	6	4	2	7	12	15	15	16	17	14	8	2	1	1	1	0	1	1	7.7	16.7	
2-Feb-08	1	1	1	0	0	A	0	1	1	4	7	9	12	13	12	10	5	2	1	1	1	1	1	1	3.7	12.8	
3-Feb-08	1	1	1	0	A	2	2	1	1	6	10	10	13	18	16	16	14	7	3	4	2	1	1	1	5.7	18.2	
4-Feb-08	1	2	3	A	1	1	0	1	1	4	7	7	6	8	11	8	5	1	1	1	1	0	0	0	3.1	11.0	
5-Feb-08	0	0	0	0	0	A	0	0	4	15	21	24	24	26	25	19	18	7	17	16	16	17	19	20	12.6	25.9	
6-Feb-08	21	23	24	25	25	A	26	26	27	23	23	28	28	27	26	24	19	13	11	19	20	23	24	24	23.1	28.2	
7-Feb-08	25	27	27	27	25	A	21	18	14	18	21	26	27	28	29	27	26	24	25	24	24	27	28	28	24.6	28.8	
8-Feb-08	28	28	29	30	A	29	29	29	28	C	C	C	A	27	27	27	26	15	23	22	21	15	9	7	23.6	30.4	
9-Feb-08	4	2	1	9	15	A	6	3	2	9	14	16	17	16	18	19	20	20	21	25	26	26	26	26	14.9	26.3	
10-Feb-08	26	25	23	19	A	20	18	14	12	14	18	17	18	20	17	12	10	9	12	11	17	14	7	1	15.4	26.3	
11-Feb-08	2	3	2	A	1	2	2	3	2	3	3	3	7	10	15	12	25	28	26	30	26	19	21	9	11.0	29.8	
12-Feb-08	19	18	A	21	22	21	19	16	16	16	17	17	20	21	19	15	12	5	0	0	0	1	2	0	12.8	21.8	
13-Feb-08	2	A	7	7	0	3	1	0	0	7	12	9	13	15	14	14	9	3	0	0	0	0	0	0	5.1	15.4	
14-Feb-08	A	4	4	3	3	1	0	0	0	1	2	5	25	31	32	31	29	28	27	28	31	30	31	A	15.7	32.3	
15-Feb-08	28	17	18	17	5	2	0	0	0	4	22	27	31	30	29	28	27	25	25	28	30	28	A	33	19.7	33.3	
16-Feb-08	35	35	33	35	36	35	34	33	32	32	30	32	37	38	39	38	35	27	13	24	30	A	26	26	32.0	38.6	
17-Feb-08	21	20	21	26	19	17	0	0	1	4	8	15	24	26	22	23	12	5	1	7	A	8	0	5	12.4	26.0	
18-Feb-08	0	1	0	0	0	0	0	0	0	9	14	25	19	22	23	22	7	4	0	A	1	1	0	2	6.5	24.7	
19-Feb-08	2	1	1	0	0	0	0	0	0	5	11	11	17	22	27	25	25	20	A	0	0	0	0	3	7.4	27.2	
20-Feb-08	12	11	9	11	5	6	1	0	0	4	11	21	22	25	25	24	17	A	0	0	0	1	3	5	9.3	25.2	
21-Feb-08	P	P	P	0	0	0	0	0	1	5	10	15	21	22	21	18	15	A	0	0	1	13	8	2	7.5	21.5	
22-Feb-08	16	5	0	0	4	1	0	0	1	2	9	14	16	22	27	21	A	7	2	10	13	21	18	18	10.0	27.0	
23-Feb-08	19	13	22	19	22	13	1	0	3	6	10	22	29	27	27	A	22	17	7	1	0	4	24	26	14.5	28.5	
24-Feb-08	20	15	18	26	26	24	19	12	10	5	19	33	33	34	A	37	36	31	30	30	30	34	33	34	25.6	36.6	
25-Feb-08	33	34	33	32	31	32	29	7	2	5	13	22	26	A	30	21	21	19	9	7	1	4	17	26	19.6	33.6	
26-Feb-08	28	29	27	22	17	6	8	8	2	3	9	18	A	33	35	32	29	28	22	23	25	28	28	27	21.1	34.9	
27-Feb-08	26	26	28	28	27	24	12	0	1	4	12	A	20	33	39	40	38	36	36	36	35	36	35	35	26.4	39.8	
28-Feb-08	35	35	34	32	31	31	27	20	14	25	A	32	33	35	35	34	30	31	21	10	5	5	14	15	25.3	35.3	
29-Feb-08	15	16	8	17	14	6	3	1	2	A	7	19	28	33	36	27	34	35	35	33	35	37	37	34	22.2	37.0	
Hourly Avg	16.0	14.8	14.1	15.5	13.2	12.0	9.1	6.7	6.3	8.9	13.0	18.2	21.5	24.2	24.7	22.7	20.5	16.6	13.1	14.0	14.0	14.1	14.8	14.7			
Hourly Max	35.3	35.1	34.4	34.9	36.1	35.3	33.9	33.0	32.2	32.2	29.9	32.6	36.8	38.4	39.2	39.8	38.3	36.1	35.6	35.9	35.0	37.0	36.5	35.2			

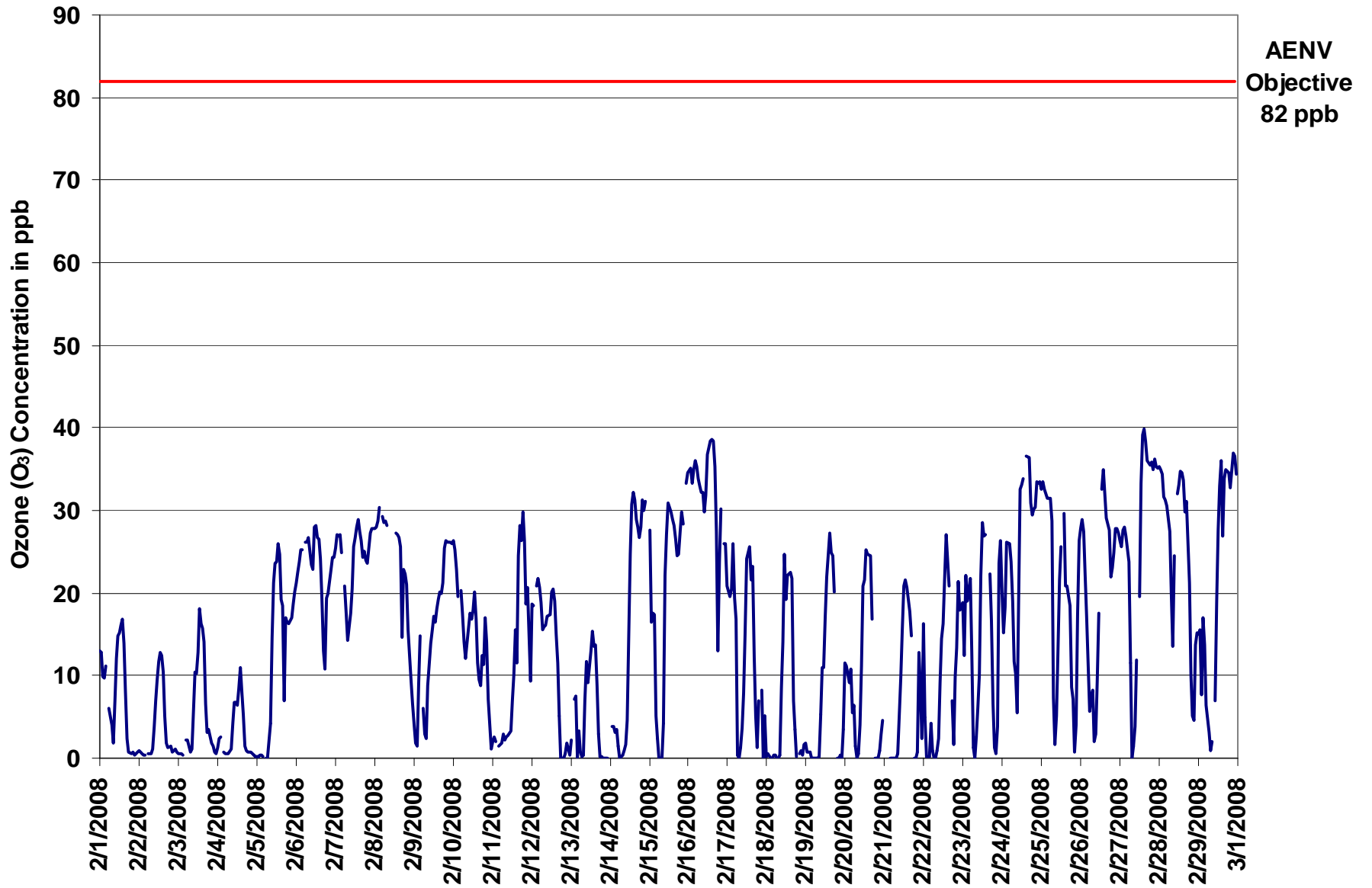


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

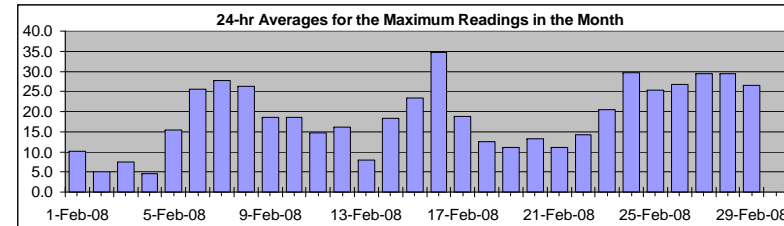
Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	50.8	ppb	18-Feb	12:00 13:00
Maximum 24-hr Value:	34.6	ppb	16-Feb	

AIC Time:	31 hrs	Operational Time:	659 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.4	36.5	28.8	20.2	6.4	0.9	0.0	18.7 ppb	20.2 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-Feb-08	14	14	13	13	14	A	13	6	3	19	15	17	17	17	18	16	12	6	1	1	2	1	1	1	10.1	18.6
2-Feb-08	2	1	1	1	1	A	1	1	2	6	8	11	13	15	13	13	10	3	3	3	1	2	2	1	5.1	14.9
3-Feb-08	1	1	1	1	A	5	5	1	3	9	12	12	16	19	19	17	17	11	5	6	4	3	2	2	7.5	19.5
4-Feb-08	2	3	4	A	1	1	1	2	3	6	9	8	8	11	13	12	8	3	1	1	2	1	2	1	4.5	12.7
5-Feb-08	1	1	2	2	2	A	1	1	12	21	24	26	27	27	27	24	23	16	24	17	17	18	20	21	15.3	27.3
6-Feb-08	22	23	24	26	26	A	27	28	28	26	28	29	29	28	28	27	26	18	21	22	23	25	26	26	25.5	29.1
7-Feb-08	28	28	29	29	27	A	24	23	23	22	25	28	29	30	30	30	29	28	28	27	29	29	30	30	27.6	30.5
8-Feb-08	30	29	30	31	A	30	30	30	29	C	C	C	A	29	28	27	28	24	25	26	24	21	16	11	26.2	31.2
9-Feb-08	11	8	7	19	20	A	11	7	4	15	18	18	19	23	22	22	22	21	23	27	27	28	27	27	18.6	27.9
10-Feb-08	27	27	26	22	A	23	22	18	15	17	20	20	21	22	21	13	12	13	16	16	20	18	14	2	18.5	27.5
11-Feb-08	4	4	5	A	3	5	3	8	5	6	4	5	10	13	20	19	31	31	30	32	31	27	25	19	14.8	32.0
12-Feb-08	24	22	A	22	24	23	23	19	20	20	20	21	23	26	21	20	18	10	0	1	1	3	5	3	16.1	25.8
13-Feb-08	7	A	11	11	4	12	2	3	2	12	14	12	16	18	16	16	14	7	1	1	1	0	0	1	7.9	18.2
14-Feb-08	A	6	6	5	7	6	0	2	2	1	3	12	31	33	33	33	31	31	30	33	34	32	32	A	18.3	34.0
15-Feb-08	31	22	24	25	13	7	1	0	1	15	27	30	32	31	30	30	29	28	30	34	32	30	A	35	23.4	34.9
16-Feb-08	35	36	35	36	37	36	35	34	33	34	32	36	38	39	39	39	37	19	32	33	A	29	30	30	34.6	39.4
17-Feb-08	30	26	27	29	24	22	7	4	4	7	13	19	27	30	27	26	24	12	17	17	A	19	7	13	18.7	30.5
18-Feb-08	3	3	3	0	3	3	1	0	2	17	18	50	51	29	29	36	12	10	3	A	5	2	5	4	12.6	50.8
19-Feb-08	3	2	3	0	0	1	0	0	2	11	17	16	27	25	30	32	31	26	A	5	0	6	2	15	11.1	31.8
20-Feb-08	15	16	16	20	10	15	6	1	3	9	20	22	24	29	29	27	24	A	1	2	0	2	7	8	13.4	28.9
21-Feb-08	P	P	P	0	3	0	1	1	3	10	14	19	25	26	24	25	23	A	0	1	6	16	14	11	11.0	25.9
22-Feb-08	21	12	3	3	7	5	1	1	4	4	12	17	21	24	30	28	A	14	6	21	21	28	24	23	14.3	30.5
23-Feb-08	25	22	26	26	25	21	7	4	9	11	13	33	33	30	30	A	33	23	14	6	5	21	29	29	20.6	33.3
24-Feb-08	27	20	26	28	29	26	22	15	16	10	32	35	35	36	A	39	39	35	32	34	34	36	37	37	29.5	39.3
25-Feb-08	36	36	36	34	34	34	31	27	3	13	25	24	28	A	32	28	25	24	17	14	10	13	27	32	25.3	35.9
26-Feb-08	32	33	33	27	24	16	29	27	5	5	17	28	A	35	37	36	32	31	25	26	28	30	30	29	26.9	37.5
27-Feb-08	28	29	30	31	29	27	24	1	4	6	21	A	25	39	41	42	39	39	37	38	37	38	37	37	29.5	41.8
28-Feb-08	36	36	36	33	33	33	29	30	20	29	A	34	35	36	36	36	32	36	33	15	16	9	19	22	29.4	36.4
29-Feb-08	21	22	14	23	18	12	7	4	4	A	10	29	30	38	41	35	37	38	38	36	38	40	39	37	26.5	40.6
Hourly Avg	19.1	17.9	17.4	18.4	16.0	15.8	12.6	10.3	9.1	13.3	17.4	22.6	25.6	27.1	27.4	26.8	25.0	21.3	17.2	17.7	17.1	17.8	18.2	18.1		
Hourly Max	36.4	36.4	35.9	36.4	36.9	36.4	34.9	34.4	33.4	33.6	32.4	50.5	50.8	39.4	40.8	41.8	39.5	39.3	37.9	37.9	37.6	39.5	39.1	37.0		

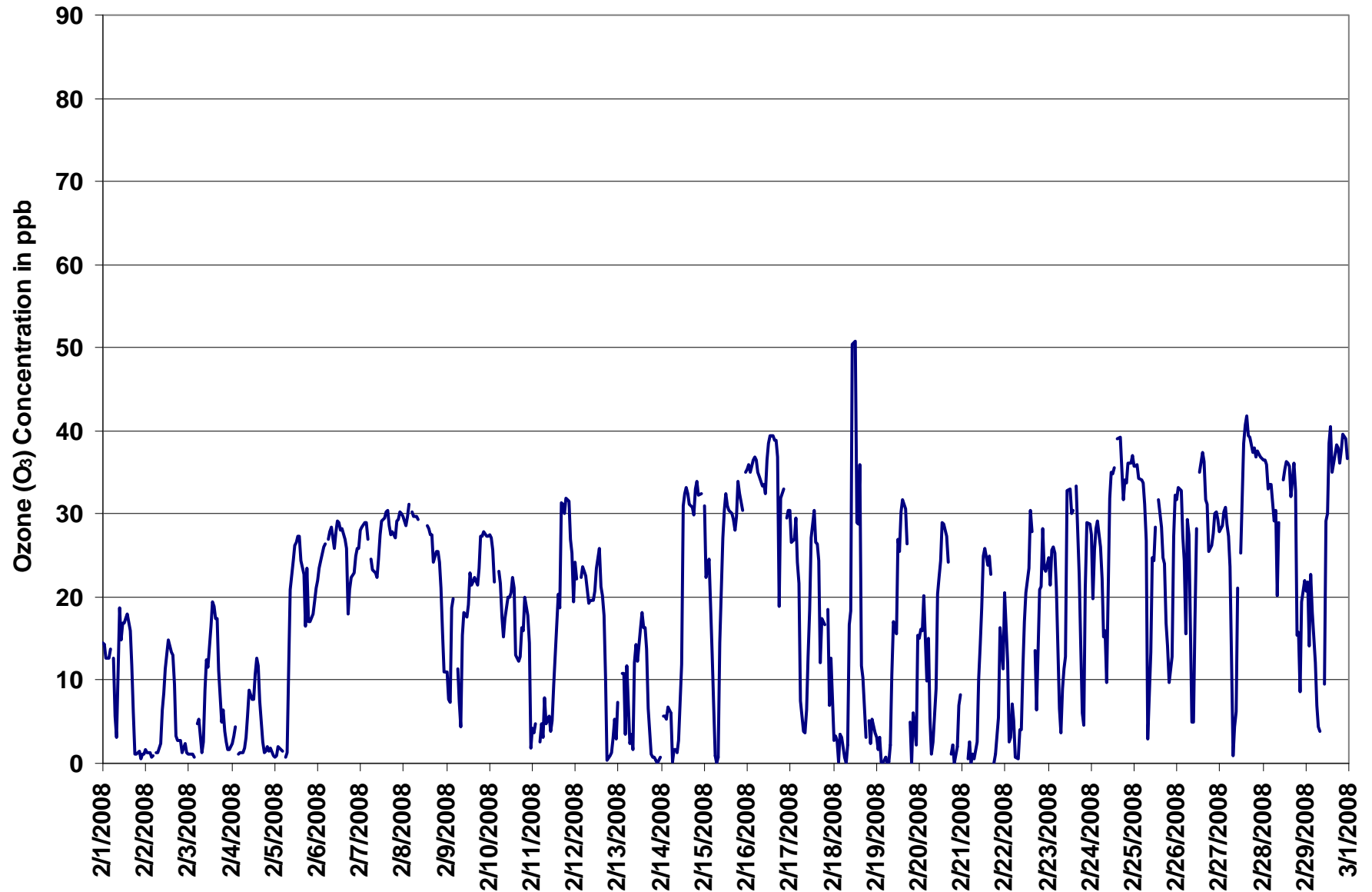
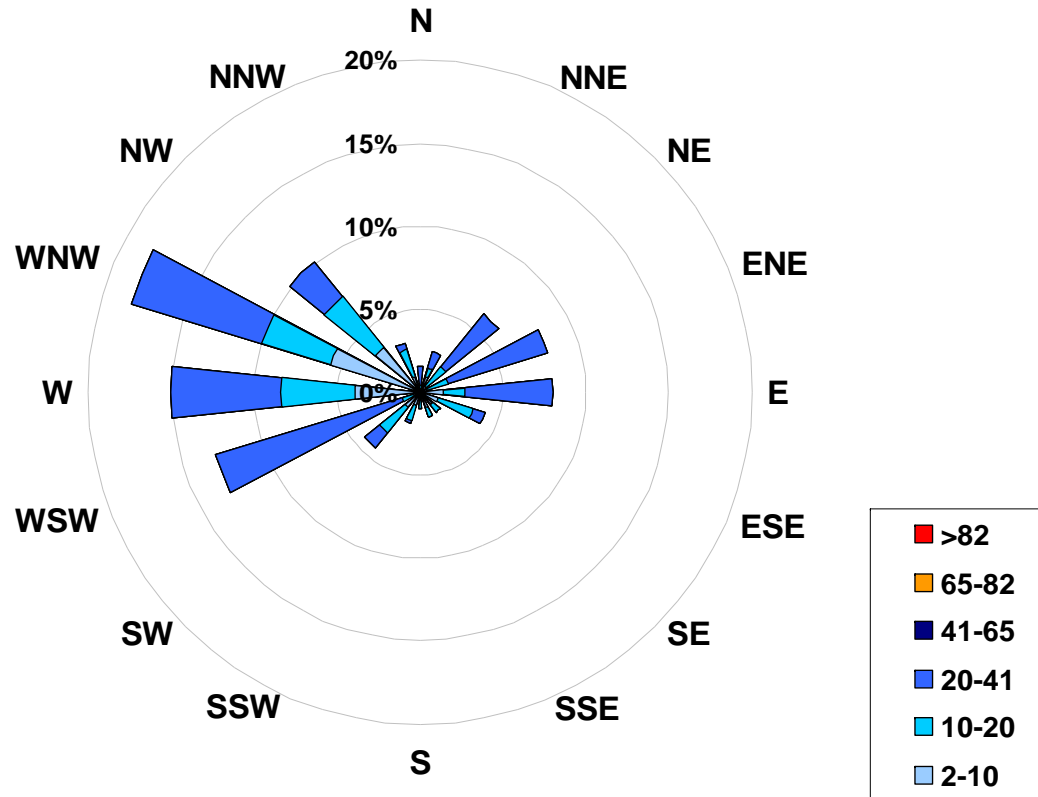


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	264	
10	to 20	141	
20	to 41	254	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			659

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

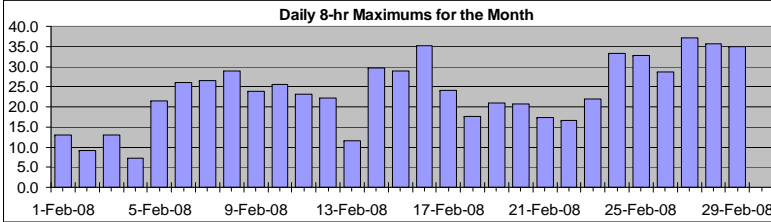
Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	37.0 ppb	27-Feb	21:00 22:00

Percentile	99	95	75	50	25	5	1
	35.2	32.7	22.4	14.2	6.4	0.9	0.3



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																							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-Feb-08	12	12	12	12	12	12	11	9	8	7	7	8	9	10	11	12	13	12	11	9	7	5	3	2	13.0
2-Feb-08	1	1	1	1	1	1	1	1	1	1	2	3	5	6	7	9	9	9	8	7	6	4	3	2	9.1
3-Feb-08	1	1	1	1	1	1	1	1	1	2	3	5	6	8	9	11	13	13	12	11	10	8	6	4	13.1
4-Feb-08	2	2	2	2	1	1	1	1	1	1	2	3	3	4	6	7	7	7	6	5	5	4	2	1	7.1
5-Feb-08	1	0	0	0	0	0	0	0	1	3	6	9	12	14	17	20	21	20	20	19	18	17	16	16	21.4
6-Feb-08	17	19	19	21	22	22	23	24	25	25	25	25	26	26	26	26	25	24	22	21	20	20	19	19	26.1
7-Feb-08	20	22	24	25	25	26	25	24	23	21	20	20	20	21	22	24	25	26	27	26	26	26	26	26	26.6
8-Feb-08	26	26	27	28	28	29	29	29	29	N	N	N	N	N	N	N	N	N	N	24	23	22	20	17	28.8
9-Feb-08	15	13	10	9	8	7	6	6	6	8	9	10	10	10	12	14	16	18	18	20	21	22	23	24	23.9
10-Feb-08	25	25	26	25	25	24	23	21	19	17	16	16	16	16	16	16	16	15	14	14	13	13	11	10	25.6
11-Feb-08	9	8	7	7	4	3	2	2	2	2	2	2	3	4	6	7	10	13	16	19	22	23	23	23	23.3
12-Feb-08	22	21	20	19	18	19	18	19	19	19	18	18	18	18	18	18	17	16	14	11	9	6	4	2	22.2
13-Feb-08	1	1	2	3	3	3	3	3	3	4	4	6	7	9	10	12	11	10	8	7	5	3	1		11.5
14-Feb-08	0	1	1	2	2	2	2	2	2	2	1	2	4	8	12	16	19	23	26	29	30	30	29	29	29.6
15-Feb-08	29	27	26	24	21	17	12	11	7	6	6	8	11	14	18	21	25	27	28	28	28	27	27	28	28.9
16-Feb-08	29	31	32	33	34	35	35	35	34	34	33	33	33	34	34	35	35	35	32	31	31	30	28	26	35.2
17-Feb-08	24	23	24	24	23	22	19	15	13	11	9	8	9	10	12	15	17	17	16	15	14	11	8	6	24.1
18-Feb-08	4	3	3	2	2	1	1	0	0	1	3	6	8	11	14	17	17	17	15	14	11	8	5	2	17.5
19-Feb-08	1	1	1	1	1	1	1	0	0	1	2	3	6	8	12	15	18	20	21	19	17	14	10	7	21.0
20-Feb-08	5	4	4	6	6	7	7	7	6	5	5	6	8	11	13	17	19	21	19	16	13	10	6	4	20.7
21-Feb-08	N	N	N	N	N	N	N	N	N	1	2	4	6	9	12	14	16	17	16	14	11	10	8	6	17.2
22-Feb-08	6	6	6	6	6	5	4	3	1	1	2	4	6	8	11	14	16	17	16	15	14	14	13	13	16.6
23-Feb-08	13	14	17	18	19	18	16	14	12	11	9	10	10	12	15	18	20	22	21	18	14	11	11	13	21.9
24-Feb-08	12	12	14	17	20	22	22	20	19	18	18	18	19	21	21	24	28	32	33	33	33	33	33	32	33.3
25-Feb-08	32	32	32	33	33	33	32	29	25	21	19	17	17	15	15	17	19	21	21	19	15	14	12	13	32.8
26-Feb-08	14	15	17	19	21	22	20	18	15	12	9	9	8	11	15	19	23	26	28	29	28	28	27	26	28.7
27-Feb-08	26	26	26	27	27	27	25	21	18	15	13	11	10	12	16	21	27	31	35	35	37	37	37	36	37.0
28-Feb-08	36	35	35	35	34	34	33	31	28	27	26	26	26	27	28	29	32	33	31	29	25	21	19	16	35.6
29-Feb-08	14	13	11	12	13	13	12	10	8	7	7	7	9	13	18	22	26	27	31	32	33	34	34	35	34.9

Hourly Max 35.6 35.4 35.3 34.7 34.3 34.7 34.6 34.5 34.2 33.9 33.4 33.0 33.1 33.5 34.1 34.8 35.2 34.6 34.6 34.7 36.7 37.0 36.5 35.9

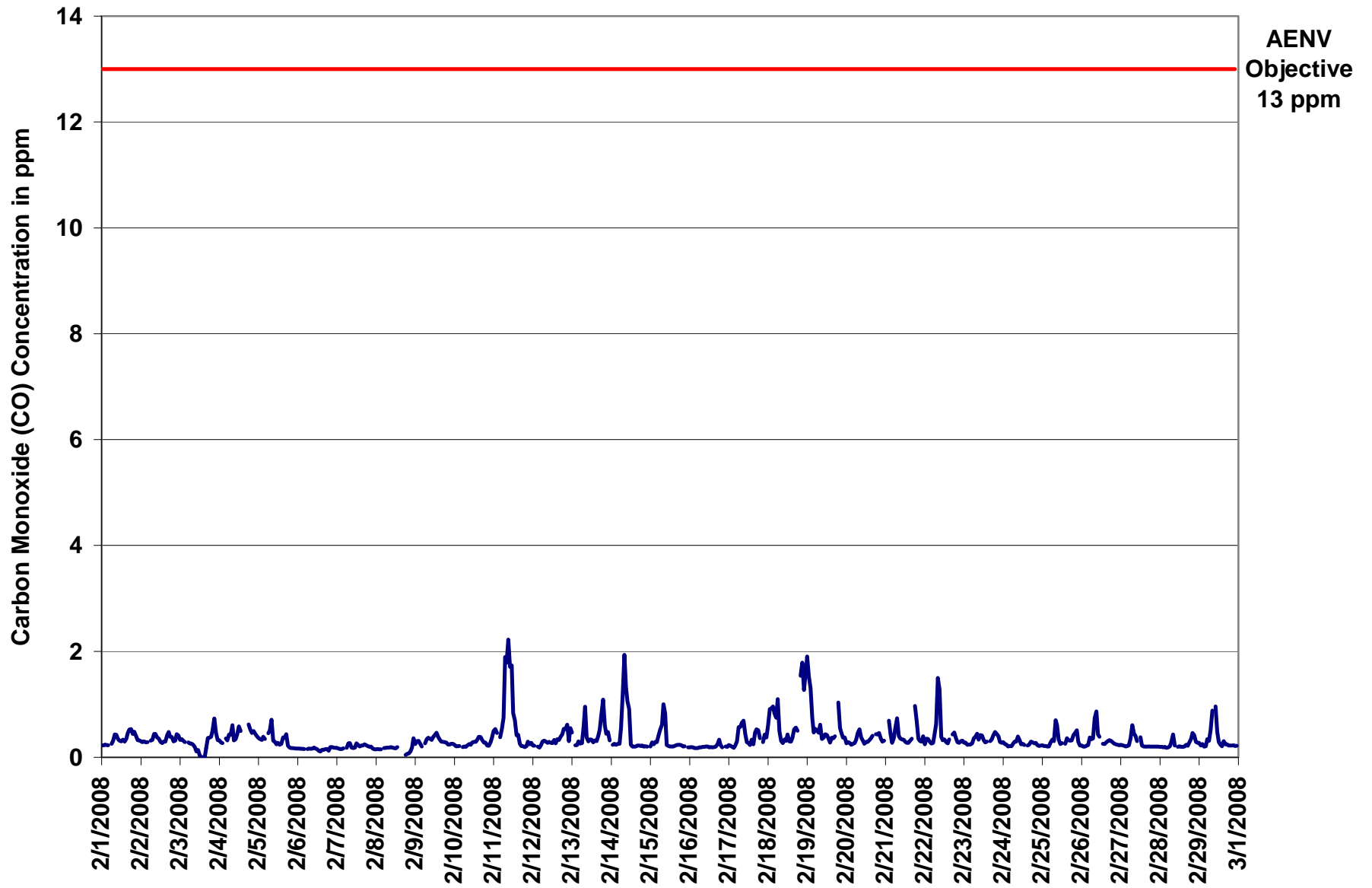


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

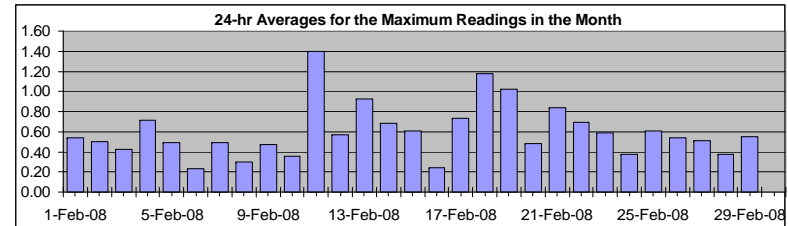
Carbon Monoxide (CO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	5.8	ppm	11-Feb	7:00 8:00
Maximum 24-hr Value:	1.4	ppm	11-Feb	

AIC Time:	32 hrs	Operational Time:	655 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	1.8	0.7	0.4	0.3	0.2	0.1	0.6 ppm	0.4 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	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-Feb-08	0.3	0.2	0.2	0.2	0.3	A	0.3	0.4	0.7	0.6	0.4	0.4	0.4	0.7	0.4	0.5	2.7	0.7	0.7	0.5	0.8	0.5	0.4	0.4	0.54	2.66	
2-Feb-08	0.5	0.3	0.3	0.3	0.3	A	0.4	0.4	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	0.7	0.7	0.7	0.5	0.4	0.4	1.2	0.8	0.50	1.17	
3-Feb-08	0.4	0.4	0.4	0.4	A	0.3	0.4	0.3	0.3	0.7	0.2	0.2	0.1	0.0	0.0	0.0	0.6	0.5	0.5	0.6	0.9	1.2	0.9	0.5	0.42	1.21	
4-Feb-08	0.4	0.4	0.3	A	0.4	0.5	0.9	2.0	1.1	0.4	0.4	0.5	0.7	0.6	C	C	C	A	0.8	0.8	0.9	0.9	0.8	0.9	0.72	1.98	
5-Feb-08	0.4	0.4	0.4	0.6	0.5	A	0.7	1.0	1.4	0.5	0.6	0.5	0.6	0.3	0.3	0.8	0.6	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.49	1.40	
6-Feb-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	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.2	0.23	0.44	
7-Feb-08	0.2	0.2	0.2	0.2	0.2	A	0.5	1.1	2.2	0.4	0.2	0.3	1.3	0.8	0.3	0.4	0.5	0.4	0.5	0.5	0.2	0.5	0.2	0.2	0.50	2.23	
8-Feb-08	0.2	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	C	C	C	A	0.1	0.1	0.1	0.2	0.3	2.1	0.30	2.14	
9-Feb-08	0.6	0.5	0.4	0.5	0.4	A	0.4	0.6	0.5	0.6	0.4	0.4	0.5	0.6	0.7	0.5	0.4	0.8	0.4	0.5	0.3	0.3	0.4	0.3	0.47	0.77	
10-Feb-08	0.3	0.3	0.3	0.3	A	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.5	0.4	0.5	0.8	0.5	0.4	0.4	0.3	0.3	0.4	0.4	0.36	0.85	
11-Feb-08	0.8	0.8	0.6	A	0.6	0.9	1.4	5.8	5.6	5.4	2.1	2.3	1.1	1.0	0.5	0.5	0.4	0.3	0.2	0.2	0.3	0.4	0.3	0.4	1.40	5.80	
12-Feb-08	0.3	0.3	A	0.3	0.3	0.5	0.6	0.8	0.6	0.4	0.8	0.5	0.5	0.5	0.3	0.6	0.6	0.5	0.5	0.9	0.8	1.2	0.5	0.9	0.56	1.25	
13-Feb-08	1.0	A	0.3	0.3	0.3	0.4	0.4	2.1	4.9	0.7	0.4	0.4	0.4	0.4	0.4	0.5	0.9	1.2	1.3	2.1	1.3	0.8	0.9	0.4	0.92	4.87	
14-Feb-08	A	0.3	0.3	0.3	0.3	0.5	0.9	2.4	3.3	1.5	1.3	1.3	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	A	0.68	3.30
15-Feb-08	0.3	0.5	0.3	0.4	0.6	1.3	0.8	2.5	2.6	1.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	A	0.2	0.60	2.64	
16-Feb-08	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	0.3	0.6	0.3	0.2	A	0.2	0.3	0.24	0.64	
17-Feb-08	0.3	0.3	0.2	0.2	0.2	0.9	2.2	0.9	1.0	0.9	0.9	0.4	0.4	0.3	0.5	0.3	1.9	1.5	0.9	1.0	A	0.4	0.6	0.6	0.73	2.24	
18-Feb-08	0.9	1.2	1.3	1.2	1.0	1.3	1.7	0.9	0.8	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.8	1.4	1.0	A	2.6	2.4	2.2	2.4	1.17	2.57	
19-Feb-08	2.4	2.0	1.6	1.1	0.6	1.1	1.3	0.9	2.3	0.5	0.6	0.6	0.7	0.5	0.4	0.9	0.6	0.5	A	2.5	0.9	0.8	0.4	0.5	1.02	2.55	
20-Feb-08	0.3	0.4	0.5	0.3	0.3	0.5	0.6	1.0	1.0	0.4	0.5	0.3	0.4	0.4	0.5	0.5	0.5	A	0.5	0.6	0.6	0.5	0.4	0.4	0.48	1.01	
21-Feb-08	P	P	P	0.6	0.4	1.1	0.9	2.5	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.6	0.5	A	2.1	2.1	0.5	0.4	0.5	1.9	0.83	2.48	
22-Feb-08	0.3	0.5	0.5	0.4	0.3	0.3	1.4	1.1	3.3	2.0	0.5	0.5	0.4	0.3	0.3	0.4	A	0.6	0.6	0.7	0.5	0.4	0.5	0.5	0.70	3.32	
23-Feb-08	0.3	0.4	0.2	0.4	0.3	0.3	0.8	0.5	0.6	0.5	0.7	0.9	1.1	0.4	0.8	A	0.4	0.4	0.8	1.0	0.9	0.7	0.5	0.3	0.58	1.15	
24-Feb-08	0.4	0.3	0.3	0.2	0.4	0.2	0.3	0.4	0.4	0.8	0.4	0.4	0.4	0.3	A	0.6	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.38	0.81	
25-Feb-08	0.3	0.3	0.3	0.2	0.3	0.7	1.2	0.6	1.7	1.5	0.4	0.3	0.3	A	0.3	0.4	0.5	0.5	0.4	1.5	0.6	0.6	0.8	0.5	0.61	1.66	
26-Feb-08	0.5	0.2	0.2	0.3	0.4	1.0	0.5	0.9	1.8	1.1	0.8	0.5	A	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.5	0.4	0.54	1.78	
27-Feb-08	0.3	0.3	0.3	0.2	0.3	0.3	1.8	2.4	0.8	1.7	0.4	A	0.7	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.51	2.36	
28-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.7	1.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.7	0.8	0.5	0.3	0.37	1.30	
29-Feb-08	0.3	0.3	0.4	0.2	0.3	1.0	0.4	1.6	1.6	A	1.2	1.2	0.4	0.3	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.55	1.62	
Hourly Avg	0.45	0.42	0.39	0.35	0.36	0.60	0.76	1.19	1.44	0.88	0.57	0.52	0.48	0.39	0.35	0.43	0.61	0.56	0.56	0.71	0.57	0.56	0.53	0.59			
Hourly Max	2.39	1.95	1.61	1.16	1.04	1.28	2.24	5.80	5.60	5.44	2.15	2.30	1.29	0.99	0.76	0.87	2.66	1.50	2.05	2.55	2.57	2.45	2.16	2.35			

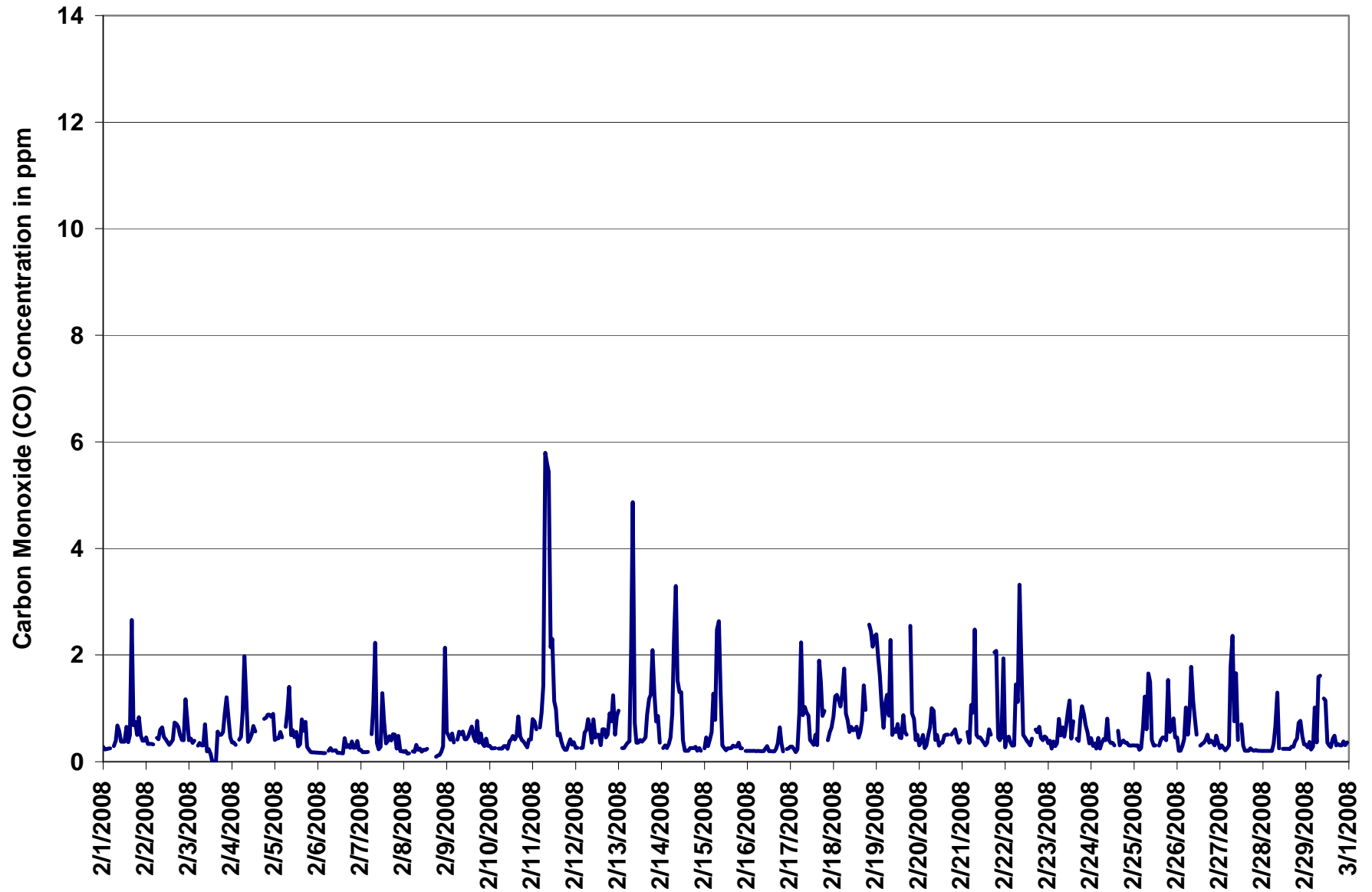
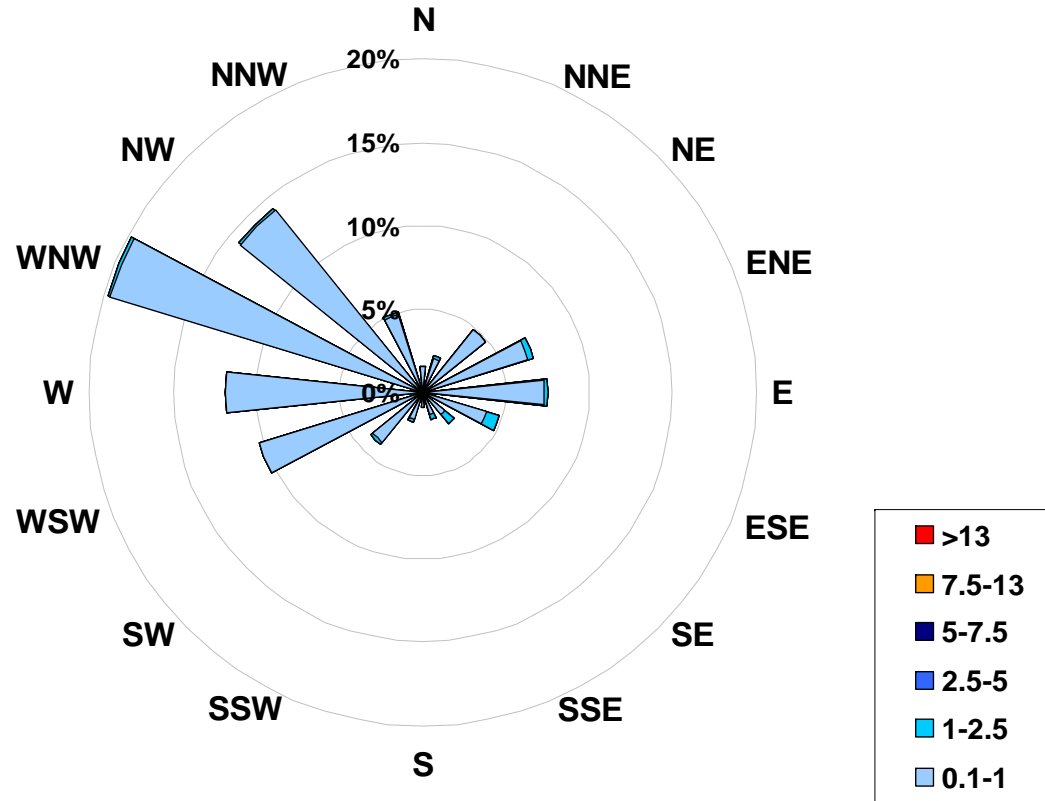


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	634
1	to	2.5	22
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			656

PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

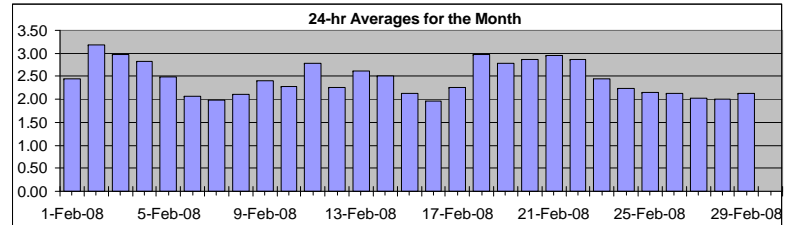
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	4.4	ppm	11-Feb	1:00 2:00
Maximum 24-hr Value:	3.2	ppm	2-Feb	



AIC Time:	31 hrs	Operational Time:	658 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	3.4	2.7	2.3	2.1	1.9	1.9	2.4 ppm	2.3 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																								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-Feb-08	2.3	2.3	2.3	2.3	2.3	A	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.44	2.79
2-Feb-08	3.1	3.2	3.4	3.4	3.5	A	3.6	3.5	3.5	3.5	3.4	3.4	3.1	3.0	2.8	2.8	2.9	2.8	3.1	3.2	2.9	2.9	3.1	3.1	3.18	3.57
3-Feb-08	3.2	3.2	3.2	3.5	A	3.6	3.5	3.5	3.5	3.4	3.3	3.1	2.8	2.3	2.3	2.4	2.4	2.6	2.7	2.7	2.7	2.8	2.8	2.9	2.98	3.62
4-Feb-08	3.0	2.9	2.9	A	2.9	2.9	2.9	2.8	2.9	2.7	2.7	2.7	2.7	2.7	2.6	2.7	2.7	2.8	3.0	2.9	2.8	2.9	2.8	2.8	2.82	3.02
5-Feb-08	2.9	2.9	3.0	3.1	3.1	A	3.0	3.0	2.5	2.1	2.0	2.0	2.0	C	C	C	C	A	2.3	2.2	2.2	2.2	2.2	2.1	2.49	3.14
6-Feb-08	2.1	2.1	2.1	2.1	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.06	2.14
7-Feb-08	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.99	2.06
8-Feb-08	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.11	2.27
9-Feb-08	2.3	2.3	2.4	2.3	2.4	A	2.5	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.41	2.71
10-Feb-08	2.1	2.1	2.1	2.1	A	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.4	2.3	2.2	2.3	2.5	2.3	2.2	2.5	3.0	2.28	3.05
11-Feb-08	3.5	4.4	3.2	A	3.3	3.5	3.3	3.9	3.3	3.4	3.6	3.2	2.5	2.4	2.2	2.4	1.9	1.9	1.9	1.9	1.9	2.3	2.0	2.2	2.79	4.39
12-Feb-08	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.1	2.3	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.3	2.3	2.5	2.4	2.5	2.3	3.1	2.26	3.09
13-Feb-08	2.6	A	2.3	2.3	2.5	2.5	2.5	2.7	2.7	2.4	2.4	2.7	2.6	2.5	2.5	2.6	2.8	3.0	3.2	2.7	2.7	2.6	2.7	2.6	2.61	3.22
14-Feb-08	A	3.1	2.9	2.8	2.9	3.1	3.1	3.2	3.3	3.2	3.1	2.8	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	2.50	3.34
15-Feb-08	1.9	2.3	2.4	2.1	2.1	2.3	2.5	2.9	3.1	2.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	A	1.9	2.14	3.08
16-Feb-08	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	2.1	2.0	2.0	A	2.0	2.0	1.96	2.09
17-Feb-08	2.1	2.1	2.1	2.0	2.1	2.2	2.4	2.4	2.5	2.5	2.4	2.3	2.4	2.3	2.2	2.2	2.3	2.3	2.3	2.4	A	2.1	2.2	2.2	2.25	2.47
18-Feb-08	2.5	2.7	4.2	4.0	3.7	3.3	3.2	2.8	2.7	2.9	2.8	3.0	2.8	2.4	2.3	2.3	2.4	2.4	2.5	A	3.2	3.4	3.1	3.4	2.97	4.18
19-Feb-08	3.7	3.6	3.5	3.0	2.8	2.9	2.8	2.8	3.0	2.9	3.0	2.9	2.6	2.4	2.2	2.3	2.3	2.3	A	2.7	2.7	2.7	2.7	2.6	2.79	3.73
20-Feb-08	2.7	2.7	2.7	2.7	2.8	2.7	2.9	3.0	3.0	3.0	3.0	3.2	3.1	2.7	2.6	2.7	2.6	A	2.7	3.0	3.0	3.0	2.9	3.0	2.86	3.22
21-Feb-08	P	P	P	3.1	3.2	3.3	3.5	3.4	3.4	3.4	3.2	2.9	2.7	2.7	2.6	2.6	2.6	A	2.9	3.0	2.7	2.6	2.7	2.6	2.95	3.50
22-Feb-08	2.6	2.9	3.0	3.0	3.0	3.0	3.0	3.1	3.4	3.5	3.2	3.1	3.0	2.8	2.7	2.7	A	2.6	2.6	2.5	2.5	2.4	2.6	2.6	2.86	3.53
23-Feb-08	2.7	2.7	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.7	2.4	2.3	2.3	2.4	A	2.2	2.2	2.3	2.4	2.3	2.3	2.2	2.1	2.45	2.70
24-Feb-08	2.1	2.1	2.1	2.2	2.2	2.4	2.9	2.9	2.8	2.8	2.2	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.23	2.88	
25-Feb-08	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.2	2.2	2.2	A	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.3	2.1	2.1	2.16	2.40
26-Feb-08	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.2	2.4	2.3	2.3	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.12	2.36
27-Feb-08	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.2	2.2	2.2	A	2.3	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.03	2.28
28-Feb-08	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.01	2.21
29-Feb-08	2.1	2.1	2.2	2.2	2.2	2.4	2.4	2.6	2.5	A	2.7	2.4	2.2	2.1	2.0	2.1	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	2.12	2.70
Hourly Avg	2.44	2.51	2.54	2.49	2.53	2.58	2.61	2.66	2.66	2.64	2.57	2.50	2.38	2.29	2.24	2.26	2.24	2.24	2.32	2.36	2.35	2.37	2.34	2.42		
Hourly Max	3.73	4.39	4.18	3.99	3.71	3.62	3.57	3.86	3.53	3.53	3.62	3.40	3.13	2.98	2.80	2.78	2.87	2.84	3.09	3.22	3.23	3.41	3.15	3.44		

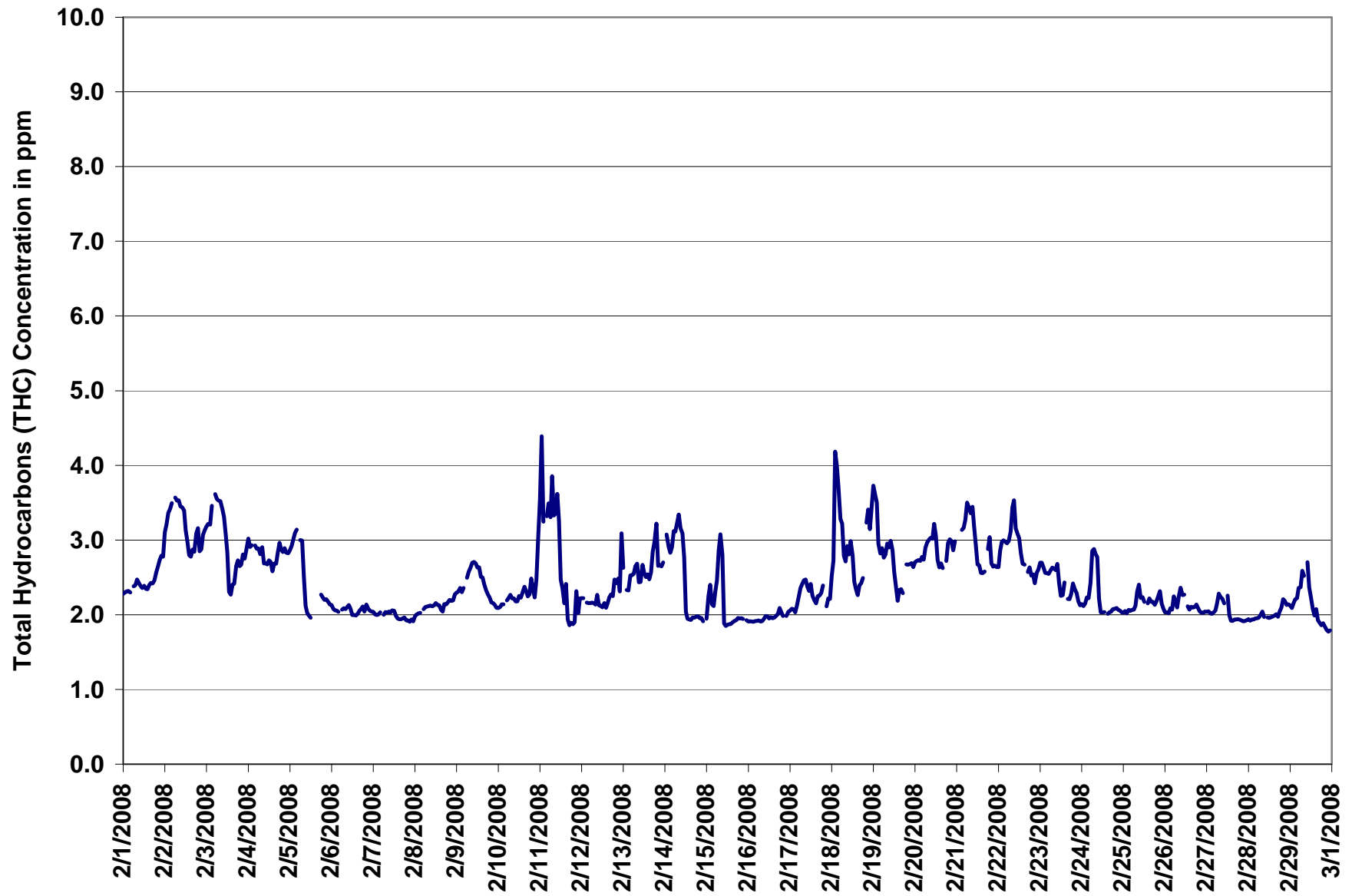


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

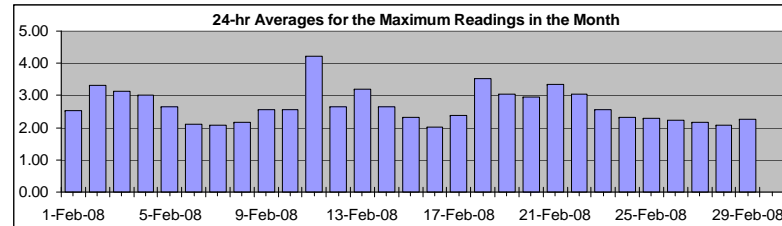
Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	10.0 ppm	11-Feb	1:00 2:00
Maximum 24-hr Value:	4.2 ppm	11-Feb	

AIC Time:	31 hrs	Operational Time:	658 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.0	3.9	3.0	2.5	2.1	2.0	1.9	2.7 ppm	2.5 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-Feb-08	2.3	2.3	2.3	2.4	2.3	A	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	3.1	2.5	2.5	2.8	2.8	2.9	2.9	2.9	2.54	3.11
2-Feb-08	3.2	3.3	3.5	3.6	3.7	A	3.7	3.6	3.7	3.5	3.5	3.4	3.4	3.1	2.9	2.9	3.0	2.9	3.3	3.3	3.0	3.0	3.3	3.2	3.31	3.68
3-Feb-08	3.2	3.3	3.3	3.6	A	3.7	3.7	3.6	3.6	3.6	3.4	3.2	3.1	2.5	2.4	2.5	2.5	3.0	3.0	2.8	2.8	3.1	2.8	3.1	3.13	3.74
4-Feb-08	3.1	3.0	3.0	A	3.1	3.0	3.2	3.2	3.0	2.8	2.7	2.7	2.8	2.8	2.6	3.0	2.9	3.0	4.1	3.3	3.0	3.0	2.9	2.9	3.00	4.05
5-Feb-08	2.9	3.0	3.1	3.3	3.2	A	3.2	3.2	3.3	2.3	2.2	2.1	2.3	C	C	C	C	A	2.5	2.3	2.2	2.2	2.2	2.2	2.64	3.31
6-Feb-08	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.2	2.2	2.0	2.0	2.1	2.1	2.2	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.12	2.22
7-Feb-08	2.1	2.0	2.0	2.0	2.1	A	2.1	2.2	2.6	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.0	2.0	2.0	2.0	2.07	2.62
8-Feb-08	2.0	2.0	2.0	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.6	2.16	2.57
9-Feb-08	2.6	2.7	2.8	2.6	2.5	A	2.6	2.7	2.7	2.8	2.8	2.9	2.7	2.8	2.6	2.6	2.6	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.56	2.88
10-Feb-08	2.1	2.2	2.2	2.2	A	2.3	2.3	2.4	2.3	2.2	2.2	2.3	2.3	2.6	2.6	2.6	2.3	2.4	2.6	2.6	2.3	3.1	6.1	2.56	6.10	
11-Feb-08	7.6	10.0	5.7	A	8.5	8.1	3.6	6.0	4.5	4.2	4.3	3.8	3.0	2.5	3.0	3.0	2.1	1.9	1.9	2.0	2.0	4.4	2.4	2.6	4.22	10.04
12-Feb-08	2.3	2.3	A	2.2	2.2	2.3	2.3	2.2	2.2	3.2	2.3	2.2	2.4	2.4	2.2	2.3	2.4	2.4	2.5	3.9	4.4	2.7	2.5	5.2	2.65	5.22
13-Feb-08	3.7	A	2.4	2.4	2.6	2.6	2.6	3.0	3.3	2.5	2.5	2.8	2.7	2.6	3.1	2.5	2.7	4.7	5.5	6.1	2.9	4.5	2.7	3.0	3.19	6.07
14-Feb-08	A	3.2	3.0	2.9	3.0	3.4	3.3	3.5	3.8	3.3	3.3	3.1	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	2.64	3.80
15-Feb-08	2.1	3.0	2.8	2.4	2.2	2.6	2.7	3.2	3.5	3.5	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.0	A	2.0	2.33	3.50
16-Feb-08	1.9	2.0	1.9	1.9	2.0	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.0	A	2.0	2.1	2.01	2.18
17-Feb-08	2.1	2.2	2.1	2.1	2.2	2.4	2.6	2.5	2.6	2.8	2.5	2.4	2.6	2.4	2.3	2.2	2.5	2.4	2.4	2.5	A	2.2	2.3	2.5	2.39	2.79
18-Feb-08	2.9	3.2	6.1	4.7	4.2	3.6	3.6	3.0	2.8	3.3	3.0	4.2	4.2	2.6	2.4	2.4	2.6	2.7	3.2	A	4.1	4.0	3.8	4.0	3.51	6.15
19-Feb-08	4.2	3.9	3.8	3.3	3.0	3.0	2.9	2.9	3.2	3.0	3.1	3.0	3.7	2.8	2.3	2.5	2.6	2.3	A	3.2	2.8	2.9	2.8	2.7	3.04	4.21
20-Feb-08	2.8	2.8	2.8	2.8	2.9	2.8	3.2	3.1	3.1	3.1	3.1	3.3	3.2	2.9	2.8	2.8	2.7	A	2.9	3.0	3.1	3.0	3.0	3.1	2.96	3.27
21-Feb-08	P	P	P	3.3	3.3	3.6	3.7	4.1	3.4	3.5	3.4	3.1	2.8	4.0	2.7	2.7	2.8	A	3.3	6.0	2.8	2.8	2.7	2.8	3.34	5.97
22-Feb-08	2.8	2.9	3.1	3.1	3.1	3.0	3.1	3.3	4.7	4.0	3.2	3.2	3.1	3.0	2.8	2.7	A	2.7	3.0	2.8	2.6	2.5	2.7	2.7	3.04	4.69
23-Feb-08	2.7	2.8	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.6	2.8	2.9	2.5	2.5	2.5	A	2.3	2.3	2.4	2.6	2.6	2.4	2.3	2.2	2.56	2.85
24-Feb-08	2.2	2.2	2.2	2.3	2.3	2.8	2.9	2.9	2.9	2.9	2.5	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.31	2.94
25-Feb-08	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.7	2.7	2.3	2.3	2.2	A	2.2	2.3	2.3	2.2	2.2	2.5	2.4	2.4	2.3	2.2	2.28	2.75
26-Feb-08	2.1	2.1	2.1	2.2	2.2	2.5	2.3	2.2	2.7	2.5	2.5	2.4	A	2.3	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.24	2.68
27-Feb-08	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.7	2.5	2.9	2.2	A	2.5	2.2	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.16	2.92
28-Feb-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.4	2.3	2.2	2.2	2.07	2.37
29-Feb-08	2.2	2.1	2.2	2.3	2.3	2.7	2.5	2.9	2.8	A	3.0	2.8	2.3	2.2	2.1	2.2	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	2.25	2.98
Hourly Avg	2.73	2.84	2.79	2.61	2.82	2.93	2.77	2.89	2.95	2.87	2.71	2.67	2.60	2.45	2.37	2.37	2.38	2.40	2.59	2.75	2.54	2.61	2.48	2.73		
Hourly Max	7.57	10.04	6.15	4.73	8.50	8.11	3.74	5.98	4.69	4.24	4.35	4.24	4.16	3.96	3.07	2.97	3.11	4.69	5.48	6.07	4.37	4.50	3.76	6.10		

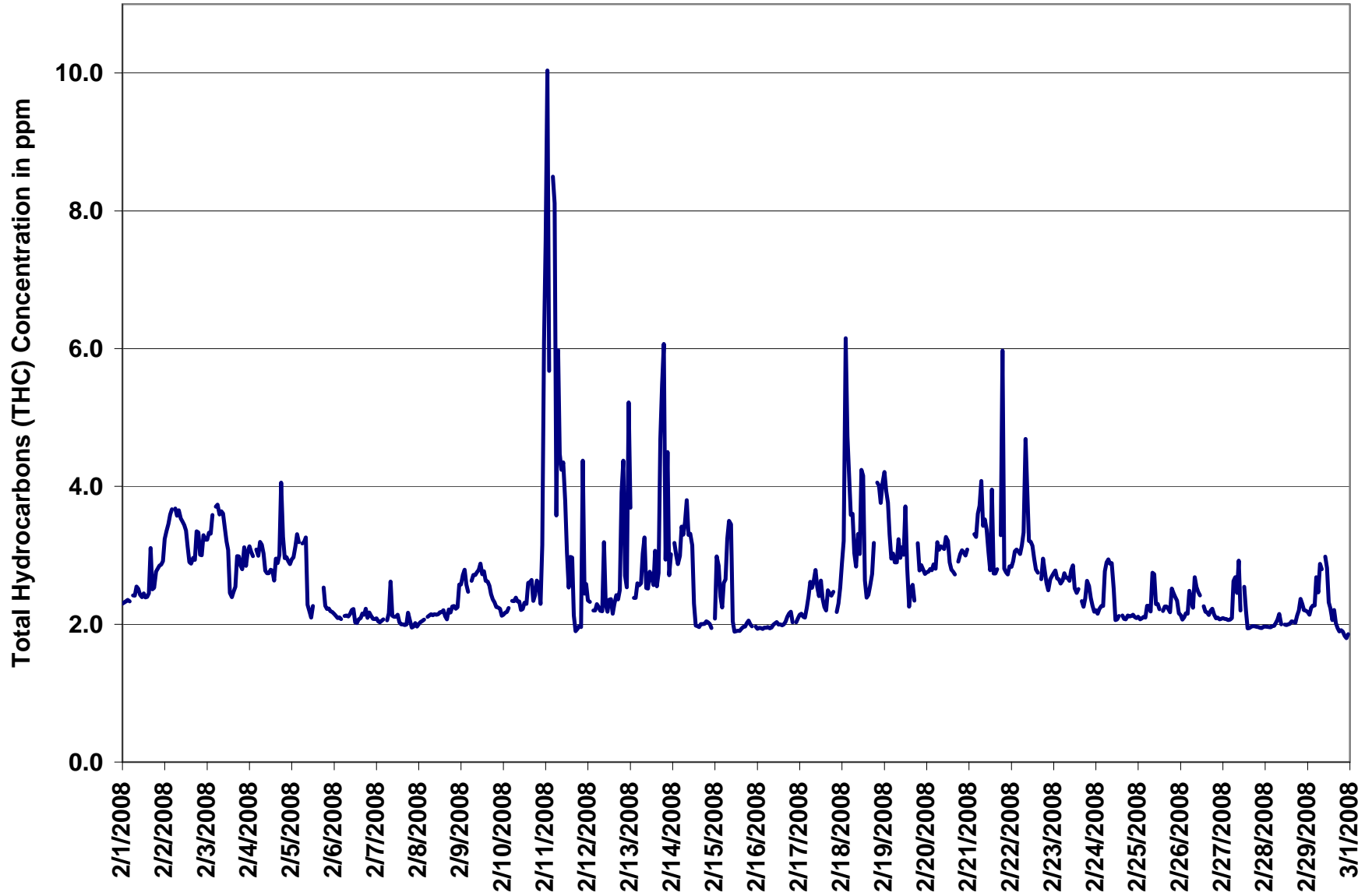
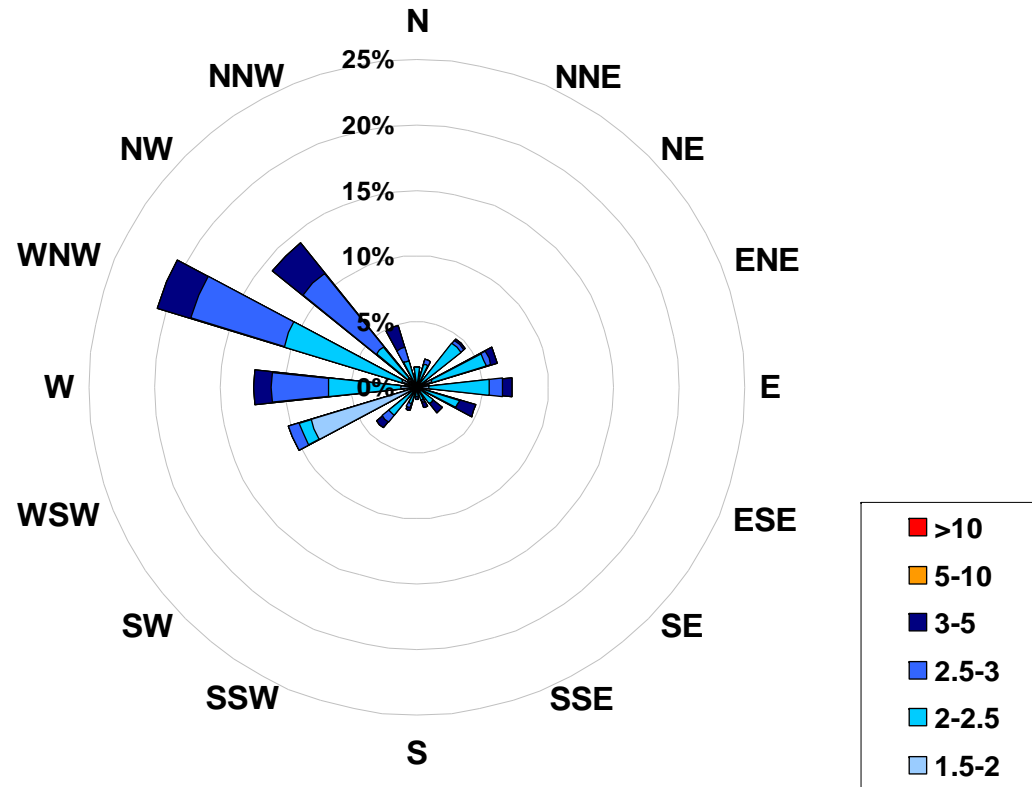


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm Range		Frequency (hrs)
1.5	< 2	101
2	to 2.5	307
2.5	to 3	163
3	to 5	86
5	to 10	0
	> 10	0
Total Non-Zero Values		658

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

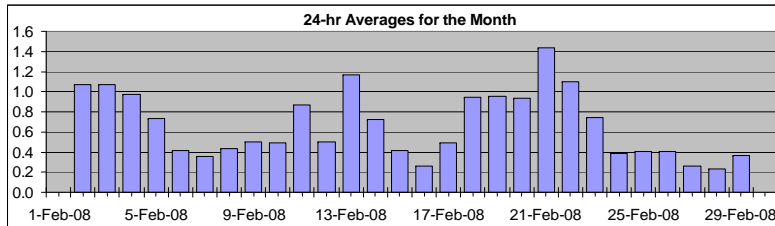
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	2.3	ppb	13-Feb	2:00 3:00
Maximum 24-hr Value:	1.4	ppb	21-Feb	



AIC Time:	31 hrs	Operational Time:	655 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	1.6	0.9	0.5	0.3	0.2	0.2	0.7 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-Feb-08	0	0	0	0	0	A	0	0	C	C	C	C	C	C	C	A	1	1	1	1	1	1	1	1	N	0.9
2-Feb-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1.1	2.2
3-Feb-08	1	1	1	1	A	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1.1	1.9
4-Feb-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	1.2
5-Feb-08	1	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.7	1.1
6-Feb-08	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0.4	0.7
7-Feb-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	0.4	0.4
8-Feb-08	0	1	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
9-Feb-08	0	0	1	0	0	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.8
10-Feb-08	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	1	1	0.5	1.1
11-Feb-08	1	1	1	A	1	1	1	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0.9	1.8
12-Feb-08	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0.5	0.8
13-Feb-08	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.2	2.3
14-Feb-08	A	1	1	1	1	1	1	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	A	0.7	1.9
15-Feb-08	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	1.1
16-Feb-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	0.3	0.3
17-Feb-08	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	A	0	1	0	0.5	1.0
18-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	2	2	0.9	1.9
19-Feb-08	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1.0	1.8
20-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1	0.9	1.6
21-Feb-08	P	P	P	2	2	2	2	2	2	1	1	1	2	2	1	1	1	A	1	1	1	1	1	1	1.4	2.2
22-Feb-08	1	1	1	2	1	1	1	1	2	2	1	1	1	1	1	1	A	1	1	1	1	1	2	2	1.1	1.8
23-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	0	0	1	1	1	1	0	0	0.7	1.4
24-Feb-08	0	0	0	0	0	0	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.4	0.6
25-Feb-08	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0.4	0.8
26-Feb-08	0	0	0	0	0	0	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
27-Feb-08	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
28-Feb-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	0.2	0.3
29-Feb-08	0	0	0	0	0	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6		
Hourly Max	1.8	1.4	2.3	1.6	1.6	1.6	2.1	2.2	1.9	1.9	1.7	1.8	2.2	1.9	1.5	1.9	2.2	1.9	1.4	1.7	1.6	1.9	1.6	1.8		

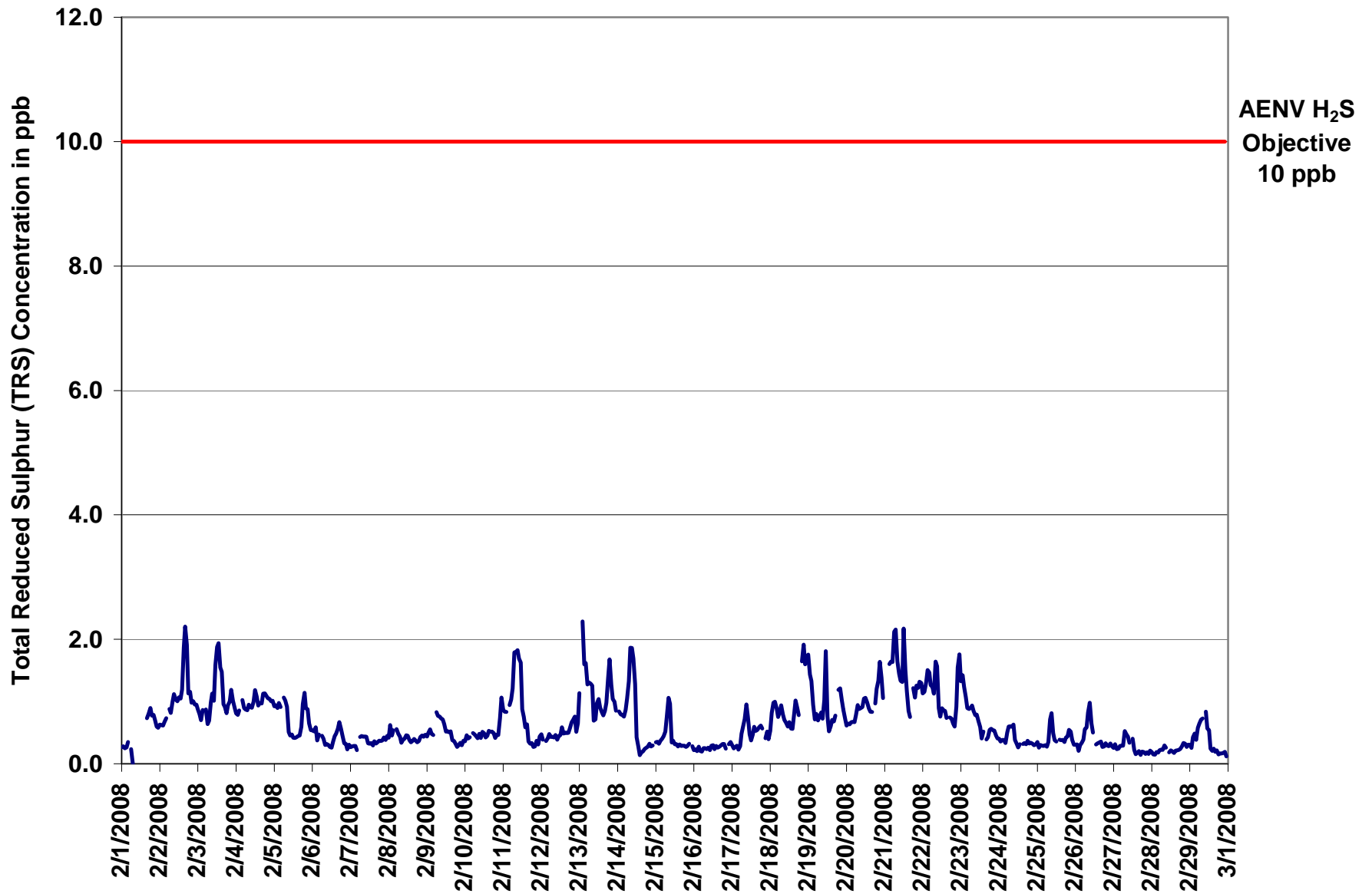


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

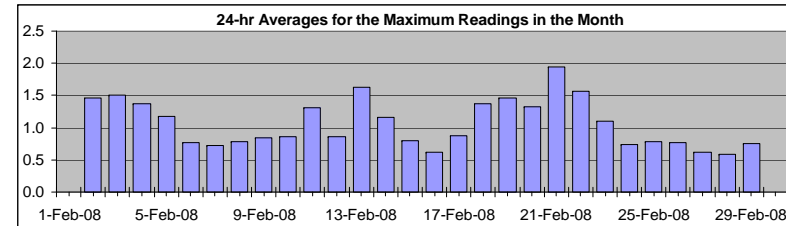
Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	3.5	ppb	13-Feb	2:00 3:00
Maximum 24-hr Value:	1.9	ppb	21-Feb	

AIC Time:	31 hrs	Operational Time:	655 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.1	1.3	0.9	0.7	0.5	0.5	1.1 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-Feb-08	1	1	1	1	1	A	1	0	C	C	C	C	C	C	C	A	1	1	1	1	1	1	1	1	N	1.4	
2-Feb-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	2	3	3	1	1	1	1	1	1	1.5	2.6
3-Feb-08	1	1	1	1	A	1	1	1	1	2	1	2	3	3	2	2	2	1	1	1	1	2	1	1	1.5	2.7	
4-Feb-08	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	1	2	1	1	1	1.4	1.9	
5-Feb-08	1	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1.2	2.0	
6-Feb-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	1.0	
7-Feb-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	
8-Feb-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	
9-Feb-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	1.2	
10-Feb-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	1.5	
11-Feb-08	1	1	1	A	2	1	2	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.7	
12-Feb-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	0.9	1.1	
13-Feb-08	2	A	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1	1.6	3.5	
14-Feb-08	A	1	1	1	1	1	1	2	3	3	2	2	1	1	1	1	1	0	1	1	1	1	1	A	1.2	2.9	
15-Feb-08	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.8	
16-Feb-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	0.6	0.7	
17-Feb-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	1.4	
18-Feb-08	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	2	2	2	2	1.4	2.5	
19-Feb-08	2	2	2	1	1	1	1	1	2	1	2	2	2	1	1	1	1	1	A	2	2	2	1	1	1.5	2.3	
20-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	2	2	2	1.3	2.2	
21-Feb-08	P	P	P	2	2	2	3	3	2	2	2	2	3	2	2	1	1	A	2	2	2	2	2	2	1.9	2.8	
22-Feb-08	2	1	2	2	2	2	2	2	3	2	1	1	1	1	1	1	A	1	1	1	1	2	2	2	1.6	2.7	
23-Feb-08	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.9	
24-Feb-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	0.7	0.9	
25-Feb-08	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.7	
26-Feb-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	0.8	1.4	
27-Feb-08	1	1	1	0	1	1	1	1	1	1	1	A	1	1	0	1	1	1	0	0	0	1	0	1	0.6	1.1	
28-Feb-08	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	1	0	1	1	1	1	1	1	1	0.6	0.8	
29-Feb-08	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	0	0	1	1	0.8	1.2	
Hourly Avg	1.0	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.4	1.3	1.1	1.1	1.1	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.1	1.1	1.0	1.0			
Hourly Max	2.3	1.9	3.5	2.1	2.0	2.2	2.6	2.7	2.9	2.7	2.3	2.4	2.8	2.7	1.9	2.3	2.6	2.6	2.0	2.3	2.5	2.4	2.3	2.2			

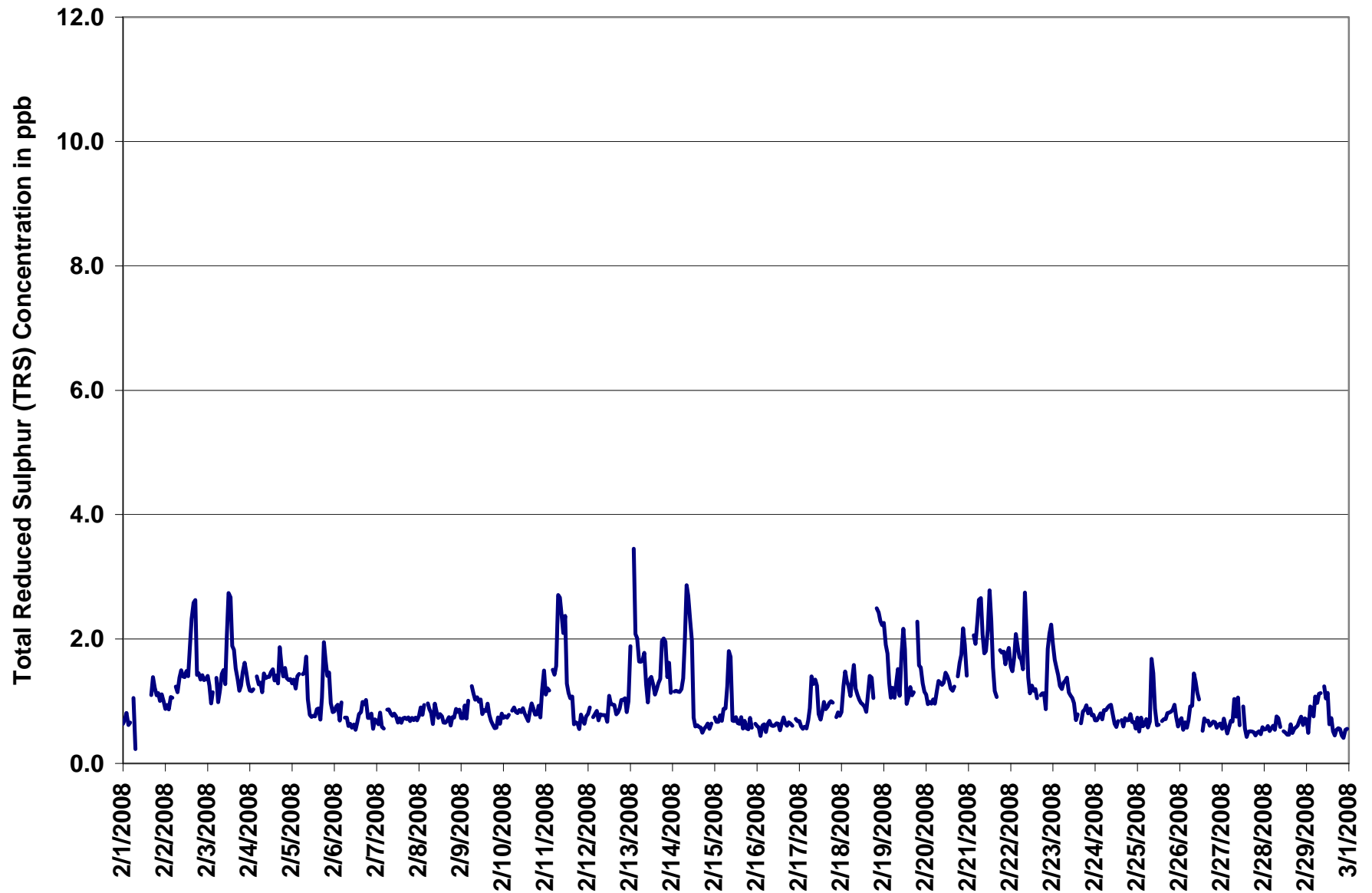
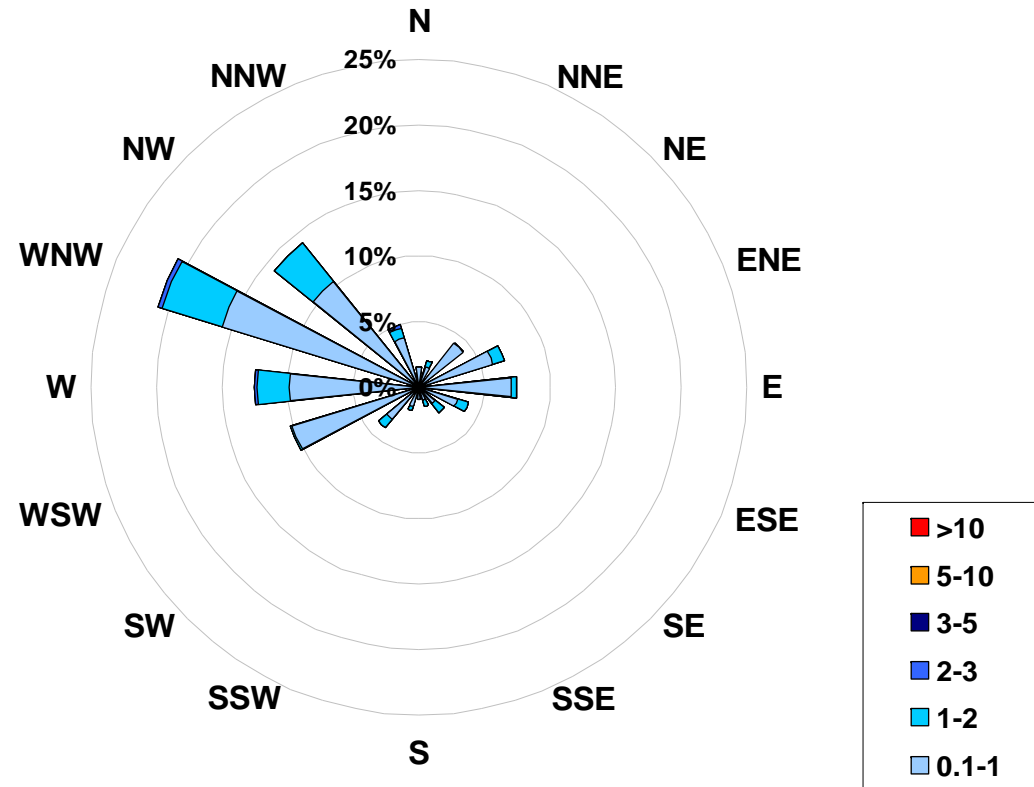


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	538
1	to	2	112
2	to	3	5
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			655

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

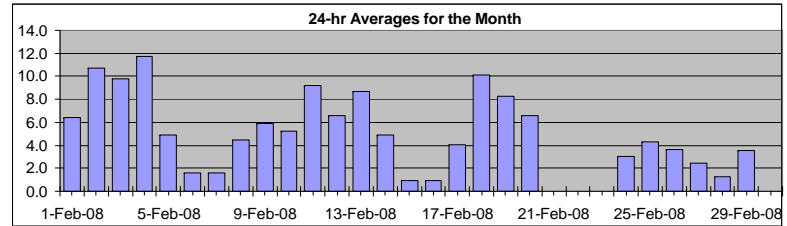
Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 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:	28.7 µg/m ³ 19-Feb 0:00 1:00
Maximum 24-hr Value:	11.8 µg/m ³ 4-Feb

AIC Time:	0 hrs	Operational Time:	625 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	90.1%
Percentile	99	95	75
	22.0	15.4	8.3
	50	25	5
	4.4	1.3	0.0
	0.0	0.0	0.0
	Average / Median		5.5
	4 µg/m ³		4.3 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	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-Feb-08	3	4	4	5	4	5	6	4	2	7	7	6	14	8	8	C	C	6	9	11	10	6	5	7	6.4	13.6
2-Feb-08	7	7	8	7	6	7	8	8	10	13	12	10	9	9	11	11	15	17	15	16	12	13	14	13	10.7	17.5
3-Feb-08	12	11	11	10	10	9	10	10	9	8	8	12	11	4	6	3	23	9	10	10	11	13	10	6	9.8	23.1
4-Feb-08	6	4	4	6	9	6	7	6	9	8	10	14	19	18	15	16	14	18	19	16	16	15	13	14	11.8	19.5
5-Feb-08	11	10	10	12	10	10	9	9	6	0	D	D	D	D	0	0	0	3	0	0	1	2	2	3	4.9	11.5
6-Feb-08	2	2	2	3	3	3	3	1	1	1	1	0	0	0	0	0	1	2	2	1	10	0	0	0	1.6	10.3
7-Feb-08	0	1	1	1	2	1	1	1	2	3	3	6	1	0	0	1	1	1	2	4	2	2	2	2	1.6	6.0
8-Feb-08	3	4	4	3	3	3	3	4	4	4	4	5	5	5	4	4	5	5	5	5	6	7	8	4.5	8.0	
9-Feb-08	8	9	11	6	5	5	10	8	8	8	10	11	12	12	6	5	3	1	1	0	0	0	0	2	5.9	12.1
10-Feb-08	3	1	1	2	2	3	3	3	4	4	6	6	10	6	9	12	10	7	5	6	5	4	7	8	5.2	11.6
11-Feb-08	14	15	14	13	12	15	17	23	20	20	17	16	6	6	3	6	1	0	0	0	0	2	0	4	9.2	22.7
12-Feb-08	1	2	1	4	1	1	1	2	2	2	4	4	6	23	4	8	11	13	9	12	14	15	7	12	6.6	22.9
13-Feb-08	12	4	5	7	8	6	7	8	9	8	8	11	10	9	9	8	9	9	13	16	10	7	8	6	8.7	16.4
14-Feb-08	6	4	4	5	6	7	10	11	14	18	17	15	1	0	0	0	0	0	0	0	0	0	0	0	4.9	17.8
15-Feb-08	0	1	5	0	0	0	0	1	3	9	2	0	D	0	0	0	0	0	0	0	0	0	0	0	1.0	9.3
16-Feb-08	0	0	0	0	0	1	1	0	1	2	2	2	1	0	1	0	1	1	2	2	0	0	1	3	0.9	2.9
17-Feb-08	2	1	1	0	1	2	3	6	8	10	6	6	6	4	5	4	7	8	7	5	1	1	3	0	4.1	10.5
18-Feb-08	5	13	7	5	10	14	6	3	1	3	4	6	12	6	4	4	10	11	6	20	20	26	18	27	10.1	27.2
19-Feb-08	29	18	19	6	3	5	4	5	5	8	8	12	8	7	4	5	5	4	6	11	8	7	7	5	8.3	28.7
20-Feb-08	4	3	4	3	4	4	5	6	9	11	8	6	9	8	8	8	7	6	10	8	9	7	6	6	6.5	10.5
21-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
22-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
23-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26	16	14	14	13	11	10	6	5	N	26.0
24-Feb-08	5	3	4	2	2	3	9	9	8	8	3	1	1	2	0	2	1	3	2	1	1	1	0	0	3.0	9.4
25-Feb-08	1	0	0	1	1	0	0	1	7	8	7	6	7	5	6	8	6	8	4	6	8	8	2	2	4.3	8.4
26-Feb-08	4	2	2	2	2	5	3	2	6	9	7	7	4	4	2	3	2	3	4	4	3	2	3	2	3.6	9.3
27-Feb-08	3	3	1	2	2	2	2	5	6	8	6	5	10	0	D	0	0	1	0	0	0	0	0	0	2.4	9.7
28-Feb-08	0	0	0	0	0	0	0	1	1	1	2	2	1	0	0	0	1	0	1	2	5	4	3	4	1.2	4.9
29-Feb-08	2	1	3	2	2	3	4	7	10	12	17	11	7	2	0	2	0	0	0	0	0	0	0	0	3.5	17.0
Hourly Avg	5.4	4.7	4.8	4.0	4.2	4.6	5.1	5.6	6.3	7.5	7.1	7.1	7.0	5.5	4.3	5.2	5.6	5.5	5.4	6.3	6.1	5.6	4.6	5.2		
Hourly Max	28.7	18.4	18.8	12.8	12.2	14.6	16.6	22.7	19.8	19.6	17.1	15.9	18.9	22.9	15.2	26.0	23.1	18.3	19.5	19.6	19.8	26.4	18.4	27.2		

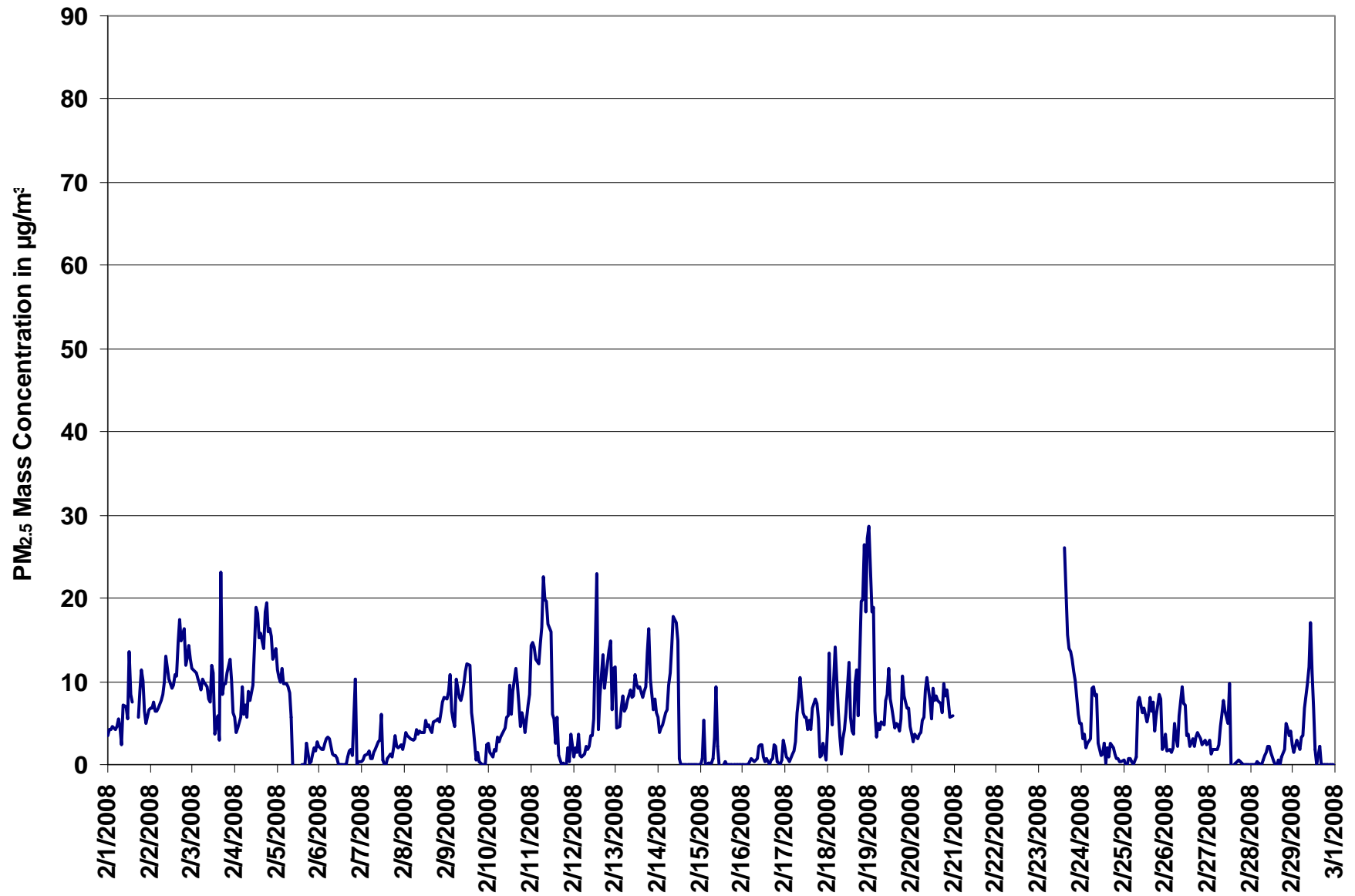


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

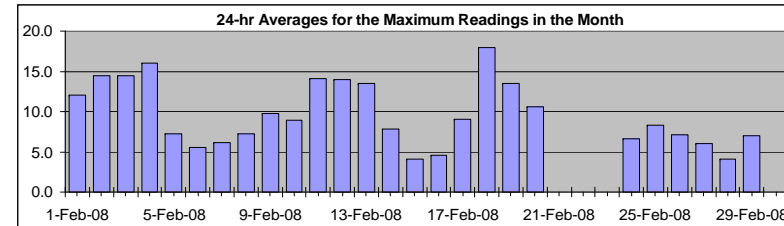
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	52.5	µg/m ³	12-Feb	13:00 14:00
Maximum 24-hr Value:	17.9	µg/m ³	18-Feb	



AIC Time:	0 hrs	Operational Time:	631 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	90.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	34.2	21.8	13.1	8.3	4.9	1.7	0.4	9.7	8 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-Feb-08	7	12	14	11	11	8	9	9	8	26	10	11	19	15	11	C	C	10	11	18	16	9	8	10	12.0	25.8
2-Feb-08	11	9	10	10	11	11	15	11	14	16	15	15	13	13	14	13	19	23	19	21	15	17	17	16	14.4	23.1
3-Feb-08	15	13	13	12	13	13	14	14	12	12	10	15	15	7	17	9	44	17	14	14	13	16	15	9	14.4	43.7
4-Feb-08	10	6	9	8	14	8	10	8	15	11	14	20	22	23	21	19	22	22	24	21	22	22	17	19	16.0	23.5
5-Feb-08	15	14	13	17	14	13	14	14	16	3	1	1	0	1	0	1	4	7	4	4	4	4	4	5	7.2	17.4
6-Feb-08	4	7	6	7	7	6	7	5	5	4	3	3	0	2	1	4	7	6	3	8	27	3	4	5	5.6	26.7
7-Feb-08	4	5	7	6	8	3	3	4	3	5	5	15	8	5	6	7	7	8	8	10	6	6	6	5	6.2	14.9
8-Feb-08	5	7	6	7	5	5	5	6	6	7	6	6	8	7	7	7	7	10	8	9	8	10	10	11	7.2	11.2
9-Feb-08	11	13	15	10	9	8	30	13	12	11	13	16	16	16	10	7	5	4	3	2	2	1	1	6	9.7	30.2
10-Feb-08	6	5	5	4	4	5	6	5	5	6	10	10	17	11	13	18	13	16	7	12	10	6	10	12	8.9	17.7
11-Feb-08	17	17	23	20	15	20	19	37	27	27	24	20	13	9	6	9	6	2	3	2	3	6	4	7	14.1	37.1
12-Feb-08	6	5	7	7	6	7	7	7	6	7	8	9	21	53	8	27	32	19	14	15	19	19	12	15	14.0	52.5
13-Feb-08	22	11	9	11	10	10	10	13	13	13	11	15	15	12	13	13	16	14	21	19	18	13	11	9	13.5	21.9
14-Feb-08	10	7	9	9	10	10	15	17	19	23	21	23	4	0	1	1	2	0	0	1	1	2	2	1	7.8	22.9
15-Feb-08	1	7	10	10	1	3	4	2	11	15	6	4	1	1	3	2	2	2	3	3	3	2	1	3	4.1	14.8
16-Feb-08	2	4	3	3	4	5	4	4	5	5	6	5	4	4	4	3	3	4	6	6	6	4	7	9	4.6	9.1
17-Feb-08	7	6	5	5	7	6	7	12	13	17	15	11	9	8	8	8	10	12	12	12	6	6	8	5	9.0	16.5
18-Feb-08	17	21	11	8	27	27	10	9	6	9	8	10	18	12	7	13	19	19	11	30	34	34	29	39	17.9	38.5
19-Feb-08	35	25	24	11	6	10	9	10	10	13	19	16	18	9	8	10	10	7	10	16	15	12	13	10	13.5	35.2
20-Feb-08	8	6	7	10	8	9	8	9	14	14	13	10	13	11	13	12	11	10	12	11	15	11	9	12	10.7	14.9
21-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
22-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
23-Feb-08	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	36	22	18	18	17	16	13	13	7	N	35.7
24-Feb-08	9	8	9	5	6	8	12	13	11	11	6	4	5	7	4	6	5	5	5	4	4	3	3	4	6.6	12.7
25-Feb-08	3	2	2	3	3	3	2	5	20	20	15	10	11	8	9	11	11	11	8	9	13	12	4	4	8.3	20.4
26-Feb-08	10	5	5	5	6	8	8	5	10	13	14	12	7	6	5	7	5	6	7	5	6	4	5	6	7.1	13.8
27-Feb-08	5	6	5	5	4	4	5	8	10	12	12	8	19	11	0	4	5	6	4	3	3	2	1	1	6.1	19.0
28-Feb-08	2	2	2	2	3	3	3	3	4	5	5	5	4	5	3	3	5	2	5	4	9	7	7	7	4.1	8.8
29-Feb-08	7	5	6	5	3	7	7	11	12	16	21	22	16	4	2	5	0	3	3	2	3	1	3	3	7.0	21.6
Hourly Avg	9.6	8.7	9.1	8.1	8.2	8.5	9.5	9.7	11.1	12.3	11.2	11.3	11.4	10.0	7.5	9.8	11.2	9.7	9.0	10.4	10.9	9.1	8.3	8.9		
Hourly Max	35.2	24.6	23.6	20.1	27.3	27.1	30.2	37.1	26.5	26.6	24.4	22.7	22.1	52.5	21.3	35.7	43.7	23.1	23.5	30.2	34.1	34.3	29.4	38.5		

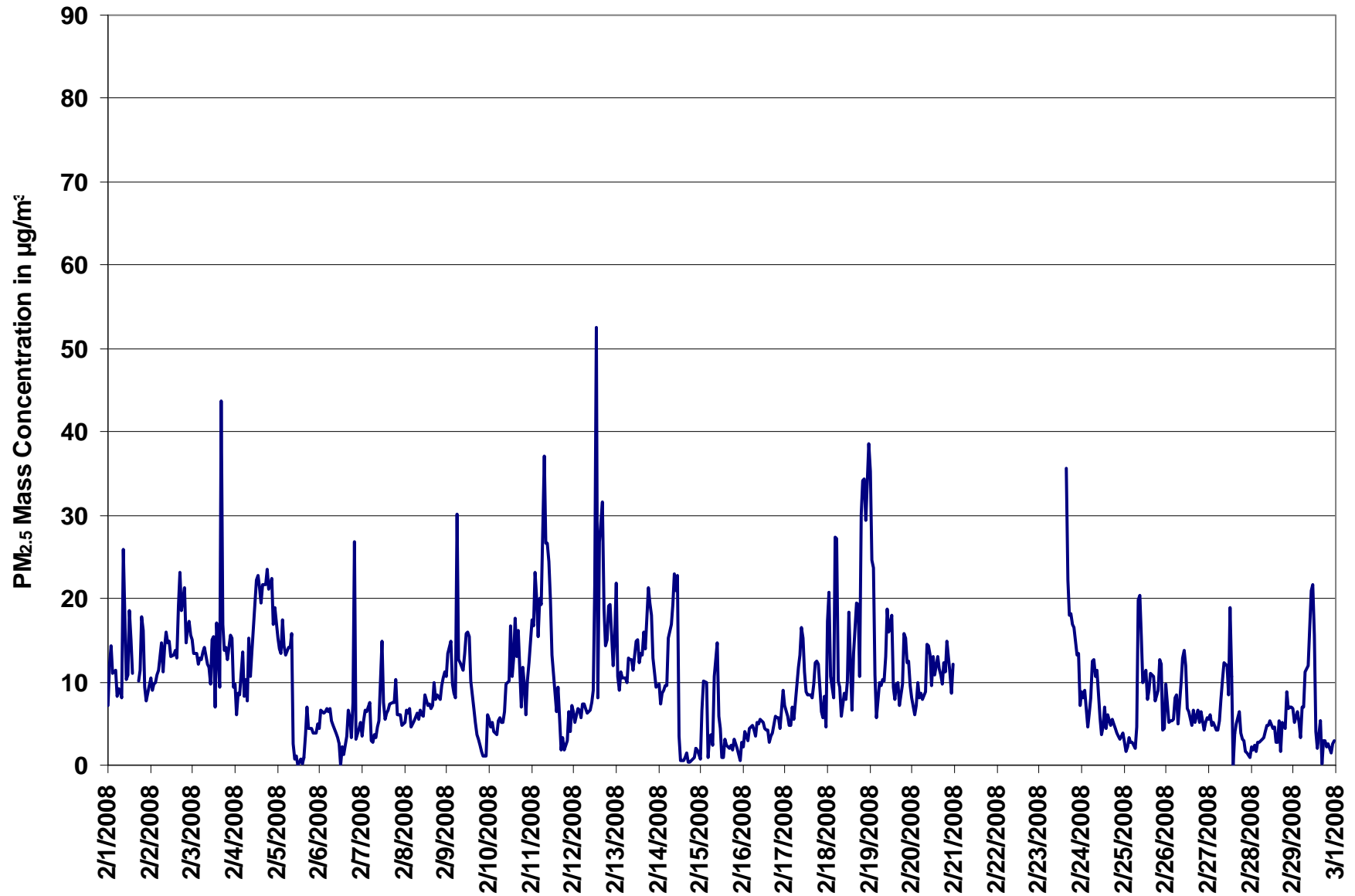
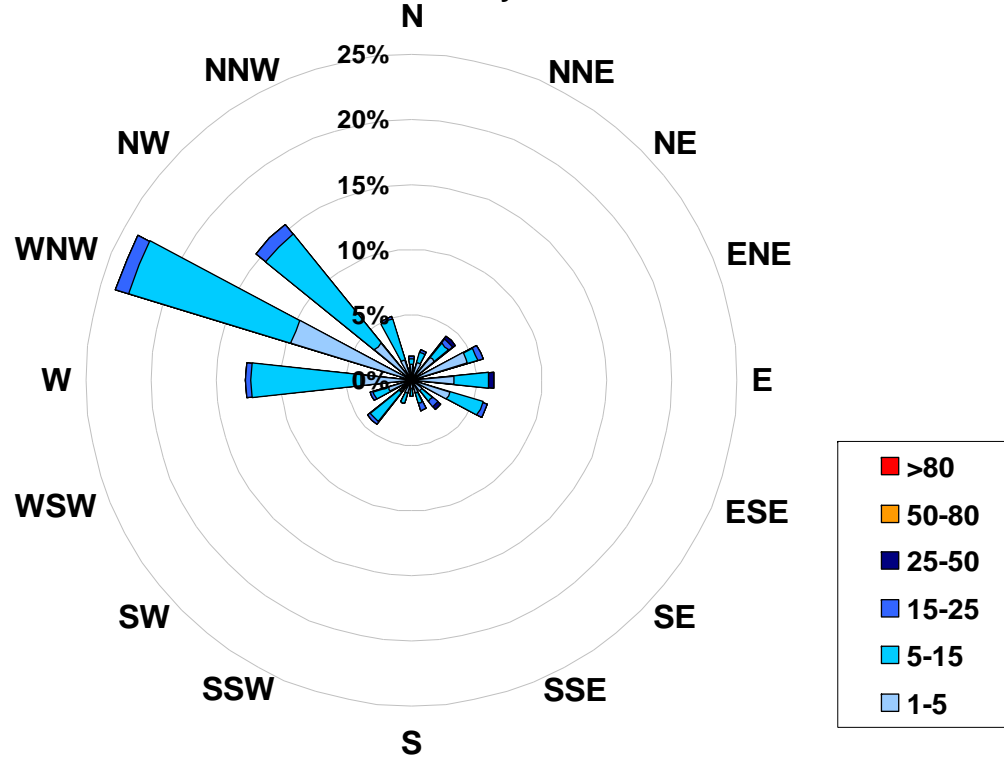


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 February 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	340
5	to	15	252
15	to	25	29
25	to	50	4
50	to	80	0
	>	80	0
Total Non-Zero Values			625

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

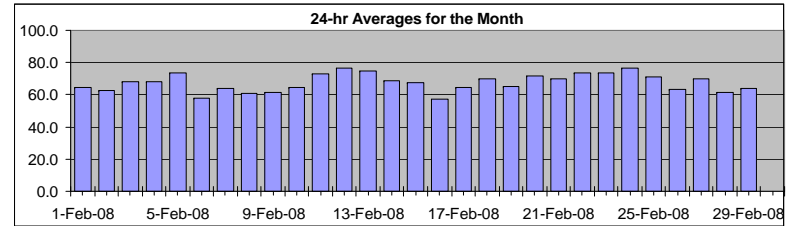
Relative Humidity (RH)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	87.8	%	27-Feb	7:00 8:00
Maximum 24-hr Value:	76.7	%	12-Feb	

AIC Time:	0 hrs	Operational Time:	694 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	86.9	82.6	75.0	67.6	61.4	49.2	43.1	67.5 %	67.6 %



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																								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-Feb-08	68	68	68	68	68	69	69	70	70	69	63	59	57	53	53	53	58	63	67	68	66	64	64	64	64	64.2	70.2
2-Feb-08	64	63	63	62	63	63	63	64	65	65	64	59	55	55	53	54	63	65	66	67	66	68	70	69	69	62.9	69.6
3-Feb-08	69	67	67	67	66	67	66	66	67	69	70	70	70	67	67	65	64	69	71	72	73	71	66	63	67	67.9	72.9
4-Feb-08	64	63	63	66	69	69	70	70	70	71	71	70	66	62	60	58	65	70	73	74	73	73	72	72	72	68.2	74.4
5-Feb-08	72	73	73	74	74	76	76	78	82	82	77	75	72	69	69	69	74	77	75	74	72	69	67	67	67	73.7	82.3
6-Feb-08	65	63	62	61	60	60	63	61	57	55	53	49	45	45	47	50	52	55	59	62	65	66	65	64	64	57.7	65.7
7-Feb-08	64	64	64	67	68	68	68	67	66	64	62	60	59	58	58	58	60	62	63	66	69	67	64	62	62	63.6	68.9
8-Feb-08	62	63	67	67	66	65	64	63	64	63	58	57	58	58	57	57	57	59	58	59	60	61	62	63	63	61.1	67.2
9-Feb-08	63	62	62	61	60	59	58	58	58	58	60	59	56	57	60	60	61	61	63	65	67	68	69	70	70	61.4	69.8
10-Feb-08	70	71	71	71	71	69	69	68	68	65	62	60	57	56	57	59	59	60	62	65	64	65	66	68	68	64.7	71.5
11-Feb-08	71	72	73	72	72	73	73	75	80	79	76	74	72	72	75	68	65	67	70	73	73	75	77	78	78	73.2	79.7
12-Feb-08	78	80	80	79	79	79	78	78	79	77	75	73	72	68	68	72	73	74	76	78	79	79	82	82	82	76.7	82.3
13-Feb-08	82	81	79	79	79	78	77	78	78	77	70	70	65	63	65	63	62	67	75	80	80	80	79	78	78	74.5	82.2
14-Feb-08	77	77	75	75	76	76	79	80	83	81	76	68	64	60	58	59	60	61	61	62	61	62	62	61	61	69.0	83.0
15-Feb-08	61	68	69	68	70	72	77	79	81	71	68	68	62	60	60	59	61	64	64	60	68	71	67	65	65	67.2	81.2
16-Feb-08	65	64	61	60	58	60	60	61	62	62	63	58	52	48	48	47	49	48	54	54	56	59	61	67	67	57.4	66.9
17-Feb-08	67	66	65	64	69	67	72	77	76	64	59	59	58	53	47	49	54	58	64	67	69	72	76	75	75	64.5	77.1
18-Feb-08	80	83	84	85	86	87	87	82	80	69	63	52	47	47	45	40	52	59	68	75	76	77	76	79	79	69.9	86.9
19-Feb-08	79	76	78	78	78	80	80	80	78	65	57	50	47	41	39	38	40	44	55	65	74	79	80	80	80	65.0	80.4
20-Feb-08	79	79	79	80	81	81	82	82	81	74	66	64	54	55	54	55	56	61	70	74	77	78	80	79	79	71.7	82.2
21-Feb-08	P	P	83	83	83	84	84	82	79	68	60	59	52	48	47	50	51	61	73	77	79	78	80	81	81	70.1	83.8
22-Feb-08	81	82	83	84	84	84	84	84	82	67	63	62	58	58	61	59	64	64	72	75	78	77	80	79	79	73.6	84.2
23-Feb-08	79	79	78	79	78	79	80	81	80	78	71	61	58	60	69	62	64	73	76	77	79	80	70	75	75	73.6	80.9
24-Feb-08	79	83	85	86	85	86	85	85	85	82	74	74	73	69	69	67	66	69	71	69	71	72	73	72	72	76.3	86.1
25-Feb-08	71	72	72	75	74	76	76	80	82	68	62	66	63	62	63	58	63	71	78	82	84	79	69	64	64	71.4	84.2
26-Feb-08	65	65	65	67	68	69	68	68	69	63	58	49	43	46	49	52	59	62	68	72	74	75	76	77	77	63.5	76.5
27-Feb-08	81	86	87	88	87	87	87	88	88	85	81	76	68	57	45	40	43	46	54	56	57	57	62	65	65	69.6	87.8
28-Feb-08	67	65	67	67	68	68	69	71	65	58	58	55	52	49	49	49	52	54	57	59	68	71	70	68	68	61.5	71.5
29-Feb-08	65	67	69	65	67	72	74	73	70	62	55	53	49	48	53	62	63	64	65	67	69	69	68	69	69	64.1	74.3
Hourly Avg	71.1	71.4	72.2	72.3	72.6	73.1	73.8	74.1	74.0	69.4	65.4	62.4	58.7	56.7	56.7	56.3	58.8	62.4	66.6	68.8	70.7	71.3	70.9	70.9	70.9		
Hourly Max	82.2	85.8	87.4	87.5	87.4	87.3	87.3	87.8	87.7	85.2	81.0	75.6	72.7	72.5	74.8	71.7	73.3	74.4	78.4	81.8	84.2	80.5	81.9	82.3	82.3		

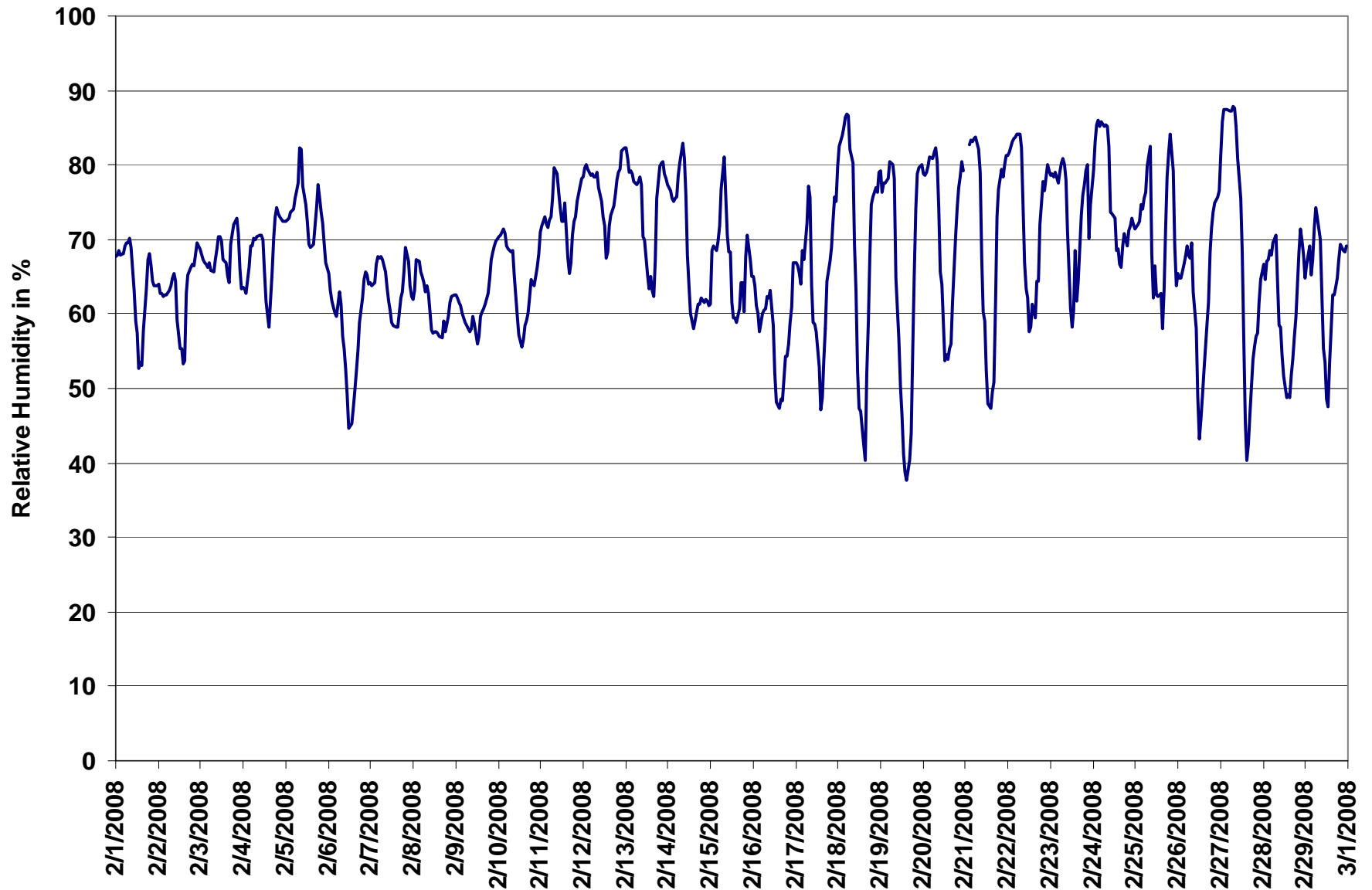


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

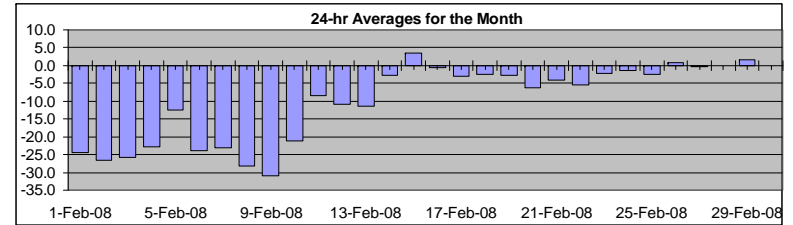
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	8.2 °C	19-Feb	14:00 15:00
Maximum 24-hr Value:	3.6 °C	15-Feb	



AIC Time:	0 hrs	Operational Time:	694 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.0	4.6	-0.8	-6.8	-22.0	-30.5	-35.6	-10.3 °C	-6.8 °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-Feb-08	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-21	-20	-19	-18	-19	-19	-21	-23	-26	-29	-31	-32	-33	-33	-24.4	-17.8
2-Feb-08	-32	-33	-33	-34	-33	-33	-32	-31	-31	-28	-26	-23	-21	-20	-19	-19	-22	-23	-24	-23	-23	-24	-25	-27	-26.7	-19.3
3-Feb-08	-28	-30	-30	-30	-30	-31	-31	-30	-29	-26	-22	-22	-20	-18	-19	-18	-19	-21	-22	-23	-24	-26	-31	-34	-25.7	-18.3
4-Feb-08	-34	-33	-33	-30	-27	-26	-25	-25	-25	-23	-22	-20	-18	-16	-16	-15	-17	-19	-20	-21	-21	-21	-22	-21	-22.9	-15.0
5-Feb-08	-21	-20	-19	-18	-17	-16	-14	-12	-10	-8	-6	-6	-5	-4	-3	-3	-2	-4	-10	-18	-20	-21	-22	-23	-12.6	-2.5
6-Feb-08	-24	-25	-25	-26	-26	-26	-26	-26	-26	-25	-24	-24	-22	-22	-22	-22	-23	-23	-22	-22	-22	-22	-23	-23	-23.8	-22.0
7-Feb-08	-23	-23	-23	-23	-23	-24	-24	-24	-24	-23	-22	-22	-22	-22	-22	-22	-23	-23	-23	-23	-23	-24	-24	-24	-23.0	-21.7
8-Feb-08	-23	-24	-24	-25	-26	-27	-28	-28	-29	-29	-28	-28	-28	-28	-27	-27	-28	-29	-30	-31	-32	-33	-33	-33	-28.2	-23.4
9-Feb-08	-34	-35	-36	-36	-36	-37	-38	-38	-38	-37	-33	-29	-27	-26	-27	-27	-27	-27	-27	-31	-32	-26	-25	-24	-30.9	-23.9
10-Feb-08	-23	-22	-23	-23	-23	-24	-24	-24	-25	-24	-22	-20	-18	-18	-18	-18	-18	-19	-20	-20	-20	-21	-21	-21	-21.2	-17.8
11-Feb-08	-22	-22	-22	-23	-22	-21	-20	-18	-13	-8	-5	-3	0	1	1	1	2	2	1	0	-1	-2	-3	-3	-8.3	2.3
12-Feb-08	-6	-10	-11	-13	-13	-13	-14	-14	-13	-13	-12	-10	-10	-9	-8	-9	-9	-9	-9	-10	-10	-11	-13	-13	-10.9	-5.6
13-Feb-08	-13	-14	-15	-14	-13	-12	-12	-12	-12	-12	-10	-9	-7	-7	-7	-6	-6	-8	-11	-13	-15	-16	-16	-16	-11.5	-5.9
14-Feb-08	-15	-14	-13	-12	-12	-11	-9	-8	-8	-7	-5	-1	2	4	5	5	4	4	4	4	4	4	4	4	-2.7	5.1
15-Feb-08	4	3	2	3	3	3	2	1	0	3	6	7	7	7	6	6	6	4	4	3	2	1	1	1	3.6	7.2
16-Feb-08	1	1	0	0	0	-1	-1	-1	-1	-1	-1	0	2	3	3	2	1	0	-3	-3	-3	-4	-5	-7	-0.7	2.8
17-Feb-08	-6	-6	-6	-5	-6	-6	-7	-8	-8	-4	-3	-3	-2	1	4	4	2	1	-1	-2	-2	-3	-3	-3	-3.0	3.9
18-Feb-08	-5	-6	-7	-7	-7	-8	-8	-9	-10	-6	-3	2	5	5	6	7	4	2	-1	-2	-2	-3	-4	-4	-2.4	7.1
19-Feb-08	-4	-4	-5	-7	-8	-9	-10	-11	-10	-7	-4	0	3	7	8	8	7	5	2	-1	-5	-7	-8	-8	-2.8	8.2
20-Feb-08	-9	-9	-10	-11	-11	-12	-12	-13	-12	-10	-7	-6	0	1	2	3	2	0	-3	-5	-6	-7	-9	-8	-6.3	2.7
21-Feb-08	P	P	-9	-9	-10	-11	-11	-12	-12	-8	-3	-1	3	5	6	6	5	2	-1	-3	-6	-6	-7	-7	-4.1	6.3
22-Feb-08	-8	-8	-8	-9	-10	-11	-12	-12	-11	-5	-5	-3	-1	1	1	2	0	0	-2	-4	-6	-6	-7	-7	-5.4	1.9
23-Feb-08	-7	-7	-6	-6	-5	-5	-5	-5	-4	-4	-2	2	2	2	1	2	2	0	-1	-1	-3	-3	-2	-2	-2.2	2.3
24-Feb-08	-2	-4	-4	-4	-4	-4	-4	-4	-3	-2	-1	0	1	2	2	2	2	1	1	0	-1	-1	-2	-2	-1.3	2.2
25-Feb-08	-2	-2	-3	-4	-3	-4	-4	-8	-9	-5	-3	-3	0	1	2	4	2	0	-4	-5	-5	-4	-3	-2	-2.6	3.9
26-Feb-08	-2	-1	-1	-1	-1	-2	-1	-1	-1	1	2	6	8	7	6	5	3	2	1	-1	-2	-3	-3	-3	0.7	7.6
27-Feb-08	-4	-4	-3	-3	-4	-3	-4	-5	-5	-4	-3	0	3	6	5	5	4	4	2	2	2	2	1	-1	-0.3	5.6
28-Feb-08	-2	-1	-2	-3	-4	-4	-4	-5	-2	0	1	3	4	5	4	5	4	3	2	1	-1	-3	-3	-2	-0.2	5.2
29-Feb-08	0	-1	-2	-1	-1	-2	-3	-3	-2	0	3	4	6	7	6	4	4	3	3	3	2	3	2	2	1.6	6.7
Hourly Avg	-13.1	-13.5	-13.6	-13.7	-13.8	-13.9	-13.9	-14.1	-13.7	-11.7	-9.7	-7.9	-6.0	-4.9	-4.7	-4.6	-5.4	-6.6	-8.4	-9.4	-10.3	-11.0	-11.7	-11.9		
Hourly Max	4.4	2.8	2.3	2.9	2.8	2.5	1.5	0.8	0.2	3.4	6.4	7.2	7.6	7.1	8.2	7.9	6.7	5.1	4.1	3.8	4.1	3.9	4.1	4.2		

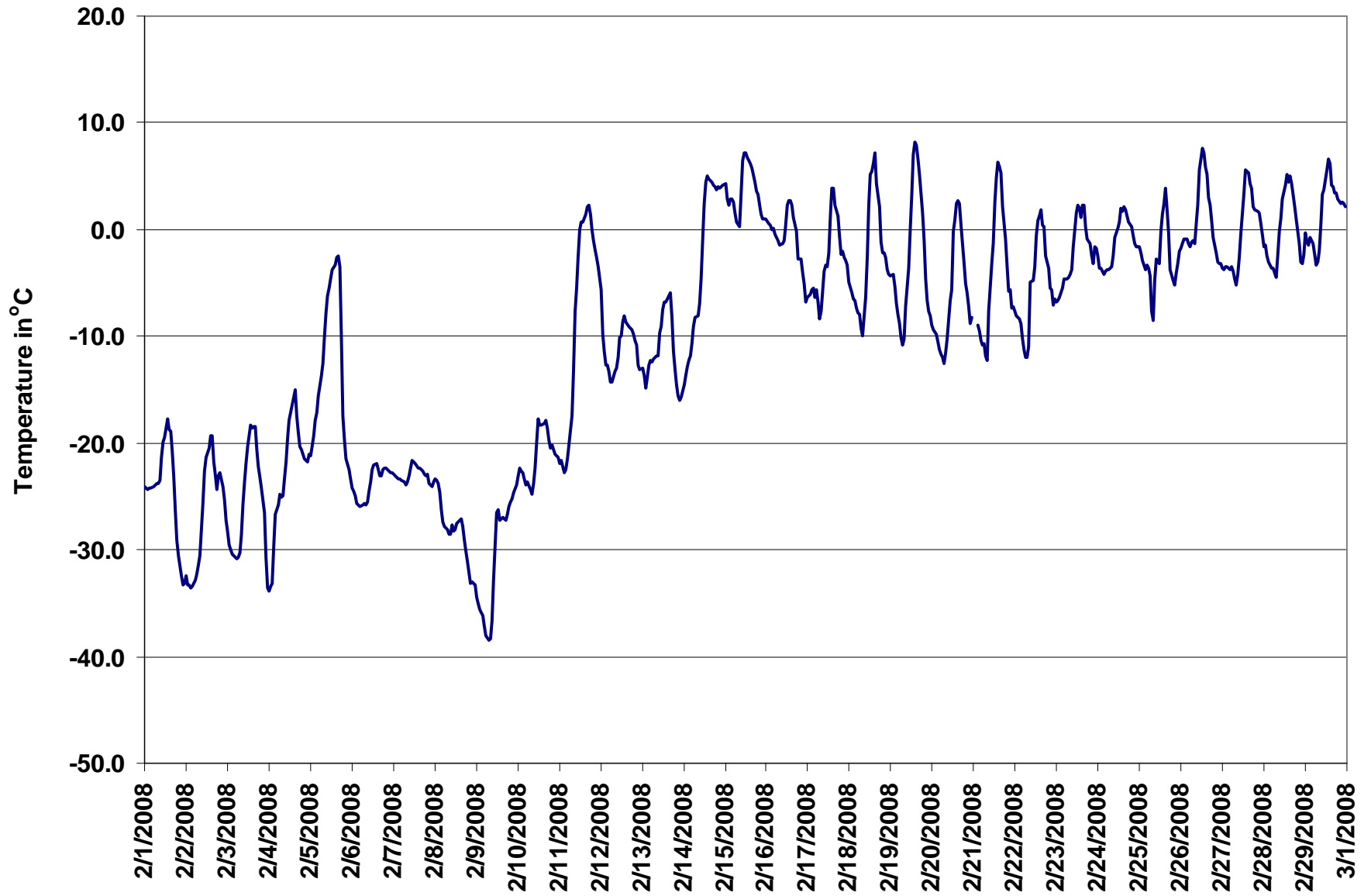


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

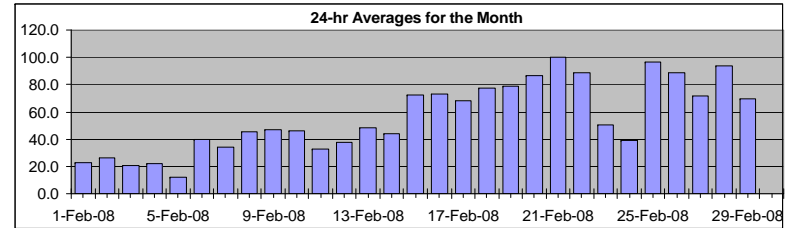
Solar Radiation (SR)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	390.8	W/m ²	28-Feb	13:00 14:00
Maximum 24-hr Value:	100.2	W/m ²	21-Feb	

AIC Time:	0 hrs	Operational Time:	694 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	363.4	298.8	86.7	0.0	0.0	0.0	0.0	56.2 W/m ²	0.0 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

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	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-Feb-08	0	0	0	0	0	1	0	0	0	16	43	62	79	95	100	92	49	8	0	0	0	0	0	0	22.7	100.0
2-Feb-08	0	0	0	0	0	0	0	0	2	28	56	99	105	110	123	81	17	3	0	0	0	0	0	0	26.0	123.0
3-Feb-08	0	0	0	0	0	0	0	0	0	2	39	60	85	115	78	60	43	5	0	0	0	0	0	0	20.3	115.3
4-Feb-08	0	0	0	0	0	0	0	0	1	22	44	56	0	101	139	115	38	4	0	0	0	0	0	0	21.7	139.5
5-Feb-08	0	0	0	0	0	0	0	0	0	10	24	41	47	56	37	31	28	14	0	0	0	0	0	0	12.0	55.8
6-Feb-08	0	0	0	0	0	0	0	0	2	50	115	145	171	175	158	109	30	0	0	0	0	0	0	0	39.8	174.7
7-Feb-08	0	0	0	0	0	0	0	4	38	92	146	151	142	106	85	44	7	0	0	0	0	0	0	0	33.9	151.0
8-Feb-08	0	0	0	0	0	0	0	4	35	175	169	184	194	152	124	51	10	0	0	0	0	0	0	0	45.8	193.6
9-Feb-08	0	0	0	0	0	1	0	7	64	116	176	238	216	145	105	54	9	0	0	0	0	0	0	0	47.1	238.2
10-Feb-08	0	0	0	0	0	0	0	6	50	98	138	220	181	187	118	79	27	0	0	0	0	0	0	0	46.0	220.0
11-Feb-08	0	0	0	0	0	0	0	3	27	51	96	144	168	135	113	42	9	0	0	0	0	0	0	0	32.8	167.8
12-Feb-08	0	0	0	0	0	0	0	5	34	61	121	155	212	131	99	72	8	0	0	0	0	0	0	0	37.4	211.7
13-Feb-08	0	0	0	0	0	0	0	6	40	135	144	201	189	171	141	103	23	0	0	0	0	0	0	0	48.0	201.4
14-Feb-08	0	0	0	0	0	0	0	9	40	79	121	178	199	219	133	60	16	0	0	0	0	0	0	0	43.9	219.0
15-Feb-08	0	0	0	0	0	0	0	16	96	202	285	298	270	241	202	101	24	1	0	0	0	0	0	0	72.4	297.9
16-Feb-08	0	0	0	0	0	0	0	7	50	93	234	336	341	308	234	115	30	1	0	0	0	0	0	0	73.0	341.5
17-Feb-08	0	0	0	0	0	0	0	10	113	161	210	304	331	273	152	66	22	1	0	0	0	0	0	0	68.4	330.5
18-Feb-08	0	0	0	0	0	0	0	19	124	231	303	347	344	209	172	64	35	2	1	0	0	0	0	0	77.2	347.0
19-Feb-08	0	0	0	0	0	0	0	16	125	166	188	292	362	324	248	134	43	3	0	0	0	0	0	0	79.1	361.6
20-Feb-08	0	0	0	0	0	0	0	22	93	195	313	356	357	323	249	129	46	2	0	0	0	0	0	0	86.8	356.6
21-Feb-08	P	P	0	0	0	0	0	31	149	237	313	357	363	319	243	157	35	2	0	0	0	0	0	0	100.2	363.0
22-Feb-08	0	0	0	0	0	0	0	26	160	251	311	363	369	313	167	109	61	3	0	0	0	0	0	0	88.8	369.1
23-Feb-08	0	0	0	0	0	0	0	13	62	137	220	219	199	129	103	87	30	3	0	0	0	0	0	0	50.1	219.9
24-Feb-08	0	0	0	0	0	0	0	11	39	84	114	123	169	133	137	87	32	2	0	0	0	0	0	0	38.8	168.6
25-Feb-08	0	0	0	0	0	0	1	41	163	226	306	384	387	351	278	126	54	5	0	0	0	0	0	0	96.8	387.1
26-Feb-08	0	0	0	0	0	0	1	33	100	147	356	375	389	359	231	94	38	2	0	0	0	0	0	0	88.6	389.3
27-Feb-08	0	0	0	0	0	0	1	15	59	107	230	350	299	210	221	144	77	5	0	0	0	0	0	0	71.6	349.7
28-Feb-08	0	0	0	0	0	0	2	64	178	249	298	365	391	211	285	151	46	7	0	0	0	0	0	0	93.6	390.8
29-Feb-08	0	0	0	0	0	0	2	42	113	216	254	350	290	184	106	84	21	3	0	0	0	0	0	0	69.4	350.3
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	14.4	71.7	132.1	190.0	233.6	241.9	198.9	152.8	81.3	25.4	1.4	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.1	64.0	177.7	251.3	356.1	383.9	390.8	358.9	284.8	157.3	76.8	6.6	1.0	0.0	0.0	0.0	0.0		

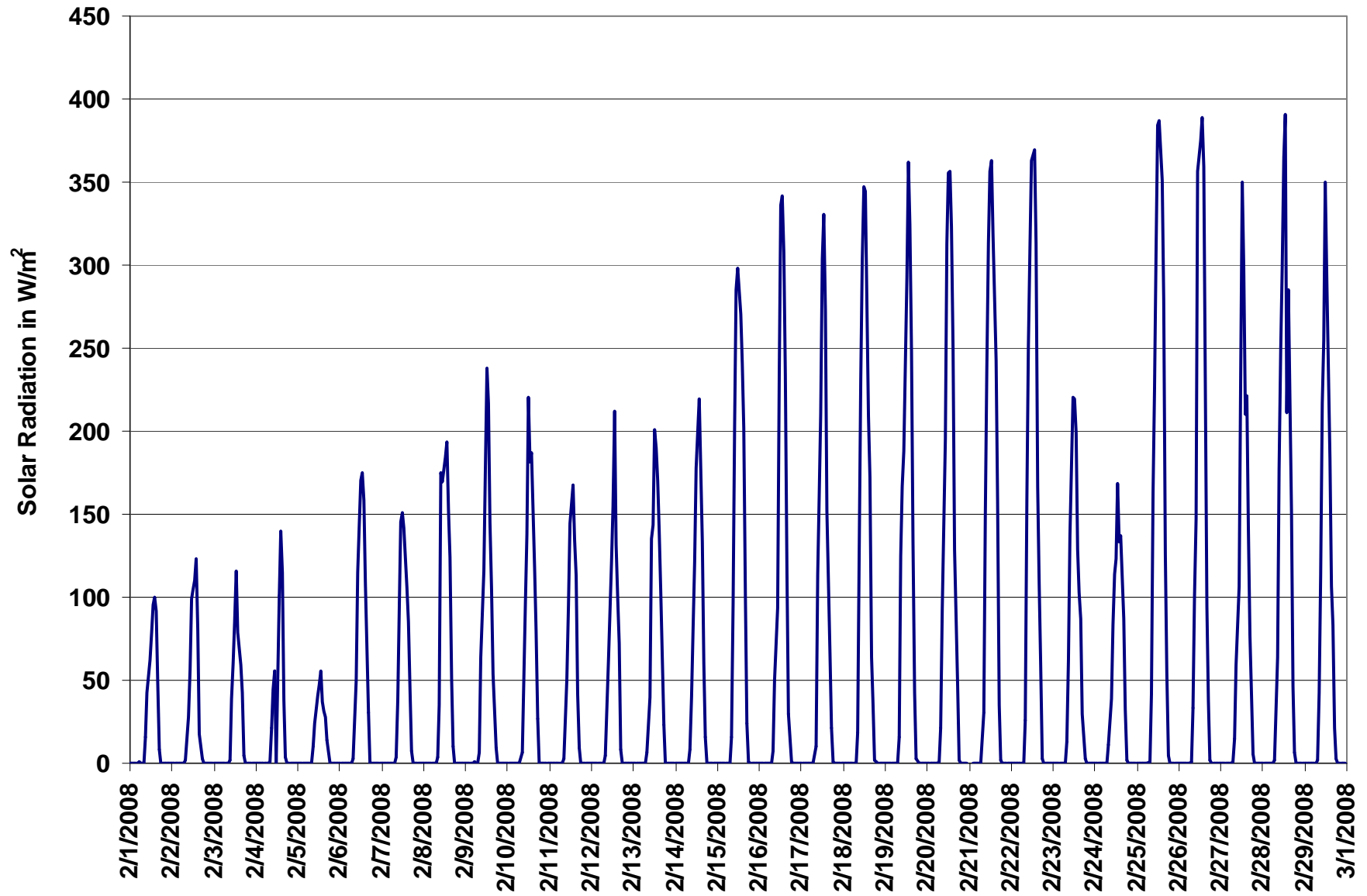


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

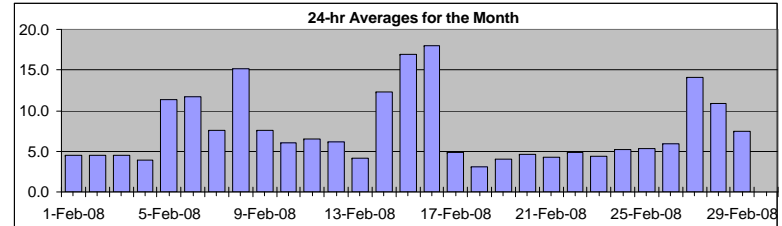
Wind Speed (WSs)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	36.2	km/hr	15-Feb	13:00 14:00
Maximum 24-hr Value:	18.0	km/hr	16-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.7	21.6	7.9	5.1	4.0	2.8	2.3	7.6 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		
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-Feb-08	4	4	4	4	4	4	5	4	4	4	5	5	5	4	5	6	4	5	4	4	5	6	6	4.6	5.9		
2-Feb-08	6	6	5	4	4	4	4	3	4	5	4	5	5	5	5	4	5	5	5	4	4	4	4	4	4.5	6.1	
3-Feb-08	4	3	4	5	4	6	5	4	3	3	3	4	5	6	6	4	4	7	7	5	3	3	4	4	4.5	7.4	
4-Feb-08	4	4	4	4	5	5	5	5	5	3	4	3	3	4	5	5	4	3	5	4	4	3	2	3	3.9	4.9	
5-Feb-08	4	4	3	4	3	5	3	3	6	8	10	12	9	11	8	7	8	7	24	30	26	27	26	26	11.4	29.8	
6-Feb-08	23	22	20	21	21	21	19	17	15	9	9	8	5	5	5	7	7	9	6	6	6	7	7	7	11.7	23.2	
7-Feb-08	7	8	9	7	8	9	7	6	5	5	4	5	7	8	9	9	8	7	7	9	10	10	9	8	7.5	10.4	
8-Feb-08	12	16	18	19	21	20	18	17	18	16	18	19	18	20	19	16	15	11	14	11	9	7	7	4	15.2	21.1	
9-Feb-08	3	4	4	7	6	4	4	5	5	4	3	3	3	3	6	7	10	12	13	15	16	15	15	15	7.6	16.0	
10-Feb-08	14	11	8	6	6	8	7	8	6	5	4	3	3	5	6	5	5	6	6	6	5	5	5	3	6.0	13.5	
11-Feb-08	3	3	3	3	3	3	3	3	5	4	3	4	4	5	6	6	19	21	17	12	8	6	5	5	6.5	21.2	
12-Feb-08	8	8	9	8	8	8	8	7	9	6	5	6	6	6	4	6	6	3	4	4	4	4	4	4	6.1	9.4	
13-Feb-08	6	4	4	3	3	5	5	3	4	5	3	4	6	5	6	6	4	4	3	2	4	3	4	4	4.2	6.5	
14-Feb-08	3	3	3	3	4	4	5	4	4	4	3	5	15	19	24	24	22	20	18	17	27	22	22	19	12.3	27.3	
15-Feb-08	13	8	5	7	5	4	4	4	4	7	17	23	32	36	34	29	24	20	17	23	20	18	25	27	16.9	36.2	
16-Feb-08	29	28	20	21	25	24	20	19	20	20	16	19	22	20	18	17	15	11	7	13	14	14	11	9	18.0	28.8	
17-Feb-08	6	3	5	5	5	3	4	3	2	2	5	5	8	7	6	6	5	5	4	6	8	4	4	3	4.8	7.9	
18-Feb-08	2	3	2	2	2	2	3	4	4	4	5	3	4	4	3	2	4	3	3	3	3	3	4	3	3.1	4.6	
19-Feb-08	3	2	2	3	3	2	4	4	5	4	4	3	6	5	4	5	6	4	3	4	5	5	5	5	4.0	6.2	
20-Feb-08	6	3	4	5	4	3	4	3	4	4	5	6	4	5	4	6	5	5	5	4	5	6	5	4	4.6	6.4	
21-Feb-08	P	P	3	4	4	3	4	4	4	4	4	4	4	4	3	4	5	4	3	5	5	8	5	5	4.2	8.1	
22-Feb-08	6	4	4	4	4	4	3	2	3	4	5	6	5	5	7	5	6	4	5	8	7	7	5	4	4.8	7.8	
23-Feb-08	5	4	5	6	5	3	3	5	4	4	4	4	5	6	7	3	4	5	4	4	4	3	6	4	4.4	7.4	
24-Feb-08	3	4	5	6	6	7	5	3	2	3	5	6	6	4	7	5	5	4	5	7	6	8	6	4	5.2	8.0	
25-Feb-08	4	6	5	4	5	8	8	5	3	4	4	8	7	6	6	5	5	7	5	4	4	5	6	7	5.4	8.0	
26-Feb-08	4	5	6	6	4	4	7	4	3	3	4	5	5	6	8	9	10	8	6	6	6	9	8	5	5.9	9.6	
27-Feb-08	5	6	7	7	5	4	3	3	4	3	4	5	8	26	33	32	29	28	25	25	21	22	17	16	14.1	33.0	
28-Feb-08	12	13	10	8	7	8	7	5	4	11	17	18	15	17	18	18	18	18	9	6	4	5	6	6	10.9	18.1	
29-Feb-08	6	4	5	7	5	4	8	6	3	3	3	7	8	7	8	8	12	12	14	13	11	11	9	6	7.5	14.1	
1-hr Average	7.3	6.9	6.5	6.6	6.5	6.5	6.4	5.7	5.6	5.6	6.2	7.1	8.0	9.2	9.7	9.1	9.4	8.9	8.6	8.9	8.9	8.6	8.3	7.6			
Hourly Max	28.8	27.7	20.4	20.8	25.4	24.0	20.3	19.5	19.6	19.7	18.2	22.7	32.3	36.2	34.5	32.3	28.6	28.1	25.3	29.8	27.3	26.9	25.6	27.3			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

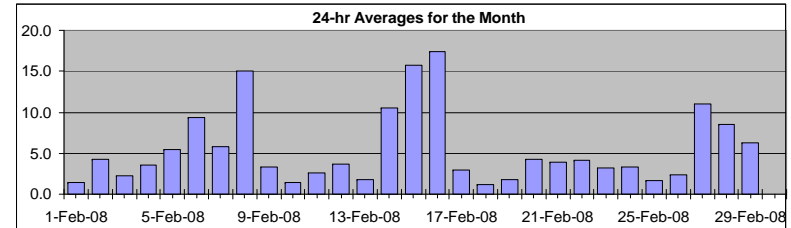
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	35.9	km/hr	15-Feb	13:00 14:00
Maximum 24-hr Value:	17.4	km/hr	16-Feb	



Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.6	21.5	7.7	4.7	3.4	1.8	0.6	12.4 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 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
1-Feb-08	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-Feb-08		4	4	3	3	4	4	5	4	3	4	5	5	4	4	4	5	4	4	5	4	5	6	6		1.4	5.8	
2-Feb-08		6	5	4	4	3	4	4	3	3	5	4	4	5	5	4	4	5	4	5	3	3	3	4		4.2	5.9	
3-Feb-08		4	3	4	5	4	6	5	4	2	3	3	4	5	6	5	4	3	7	7	5	3	3	3	4		2.3	7.2
4-Feb-08		4	4	4	3	3	4	4	5	3	2	4	2	2	3	5	4	4	3	4	1	4	3	2	3		3.5	4.8
5-Feb-08		3	3	2	3	2	2	2	2	6	8	10	11	9	11	8	7	8	6	24	30	26	27	26	26		5.5	29.6
6-Feb-08		23	22	20	20	21	21	19	17	15	9	8	8	5	5	5	7	7	9	5	6	6	7	7		9.3	23.2	
7-Feb-08		6	7	8	7	8	9	7	6	4	5	2	5	7	8	9	8	8	7	7	9	10	10	9	8		5.8	10.2
8-Feb-08		12	16	18	19	21	20	17	17	18	16	18	19	18	20	18	16	15	11	14	11	9	6	7	4		15.0	21.0
9-Feb-08		2	4	4	7	6	4	4	5	5	4	3	3	2	2	5	7	9	12	13	15	16	14	15	15		3.3	15.9
10-Feb-08		13	11	8	6	6	8	7	8	5	5	4	2	2	5	5	5	4	5	6	5	5	5	5	2		1.5	13.4
11-Feb-08		1	1	1	2	1	2	2	2	5	3	3	3	3	4	6	4	18	21	17	12	8	6	5	5		2.6	21.1
12-Feb-08		8	8	9	8	8	8	8	7	9	5	5	4	2	4	1	3	5	2	2	4	3	2	1	3		3.7	9.2
13-Feb-08		6	3	4	0	1	5	5	3	4	5	3	3	5	4	6	5	2	4	2	1	4	3	4	3		1.8	6.2
14-Feb-08		3	3	3	3	4	3	4	4	4	4	3	5	14	19	24	24	22	20	18	16	27	22	22	19		10.5	27.2
15-Feb-08		13	7	5	7	5	2	3	4	4	6	17	22	32	36	34	29	24	20	17	22	20	18	25	27		15.8	35.9
16-Feb-08		29	28	20	21	25	24	20	19	19	20	16	18	22	20	18	17	15	11	6	12	14	14	10	9		17.4	28.8
17-Feb-08		5	1	4	4	4	3	4	3	2	1	4	5	8	7	6	5	5	4	4	6	8	4	4	2		2.9	7.8
18-Feb-08		0	2	2	2	2	2	3	4	4	4	4	3	4	4	2	2	3	2	2	2	1	1	1	2		1.2	4.4
19-Feb-08		2	2	0	3	3	2	4	3	4	4	3	1	6	4	3	4	5	4	3	2	5	4	4	4		1.7	5.7
20-Feb-08		5	3	4	4	3	3	4	3	4	4	4	6	4	5	4	5	5	5	5	4	5	5	4	3		4.3	6.3
21-Feb-08		P	P	2	3	3	2	2	4	4	4	4	4	4	3	3	3	4	4	3	5	5	8	4	5		3.9	8.1
22-Feb-08		4	2	3	4	4	4	2	1	2	2	4	6	5	5	7	4	5	3	5	8	7	6	5	4		4.2	7.7
23-Feb-08		5	4	5	5	4	3	2	4	3	3	3	3	5	6	7	3	3	5	3	3	4	3	6	4		3.2	6.7
24-Feb-08		1	4	5	6	6	7	4	3	2	3	3	6	6	3	7	5	5	4	5	7	6	8	6	4		3.3	8.0
25-Feb-08		3	6	5	4	5	8	7	4	3	3	1	8	6	6	6	4	5	7	4	4	3	5	5	6		1.7	7.7
26-Feb-08		3	5	6	1	3	3	5	3	2	2	1	5	4	5	8	8	9	8	6	6	6	8	8	4		2.3	9.4
27-Feb-08		5	6	7	7	4	3	2	3	4	2	3	4	7	26	33	32	28	28	25	25	21	22	17	16		11.1	32.9
28-Feb-08		12	13	10	8	6	8	6	5	4	10	17	18	15	17	18	18	18	17	9	6	2	4	6	3		8.5	18.0
29-Feb-08		4	3	4	7	4	3	8	3	0	1	0	7	7	7	8	8	12	12	14	13	11	11	9	6		6.2	14.0
1-hr Vector		3.0	2.6	2.9	2.9	3.1	3.1	2.7	2.8	2.2	2.8	2.9	3.1	4.0	5.4	5.6	4.7	4.2	4.0	3.9	4.4	4.2	3.7	3.8	3.2			
Hourly Max		28.8	27.6	20.3	20.7	25.4	24.0	20.2	19.3	19.5	19.6	18.1	22.4	32.1	35.9	34.4	32.2	28.4	28.0	25.2	29.6	27.2	26.7	25.5	27.3			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	Average
	346.2	328.1	298.6	268.8	116.7	43.3	12.2	281 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-Feb-08	102	110	116	135	153	153	140	147	118	103	102	102	103	47	48	21	17	23	319	301	315	309	302	313	70	ENE
2-Feb-08	315	302	304	305	332	292	306	302	328	322	282	278	271	269	274	286	327	301	293	339	284	293	334	314	301	WNW
3-Feb-08	311	309	291	298	323	319	312	318	346	315	280	262	270	283	303	283	20	85	82	96	80	73	283	298	319	NW
4-Feb-08	316	304	302	319	206	319	303	291	293	296	279	278	258	266	278	283	319	322	322	285	312	311	307	297	296	WNW
5-Feb-08	313	297	330	309	327	289	303	299	90	90	86	88	85	84	78	58	68	327	301	300	288	286	286	281	313	NW
6-Feb-08	287	289	286	282	283	291	289	282	282	282	273	275	285	288	310	349	338	342	22	40	45	39	38	44	300	WNW
7-Feb-08	41	23	15	25	355	349	357	338	356	339	20	99	82	63	68	61	57	41	43	358	342	321	314	310	15	NNE
8-Feb-08	299	300	303	295	289	291	292	297	293	296	290	288	289	280	281	281	282	270	288	299	293	284	277	299	290	WNW
9-Feb-08	290	274	269	329	298	300	288	283	297	295	289	229	213	249	89	68	68	79	82	81	83	83	81	81	63	ENE
10-Feb-08	82	85	89	103	202	240	220	195	187	218	238	250	232	279	329	335	326	300	314	305	297	283	278	230	256	WSW
11-Feb-08	284	48	224	316	122	110	161	64	162	125	112	67	91	136	160	216	249	245	264	287	293	322	271	23	248	WSW
12-Feb-08	73	91	96	83	58	75	71	64	85	55	41	85	110	44	267	334	344	151	133	325	344	270	221	339	64	ENE
13-Feb-08	21	1	277	217	227	287	273	75	75	129	165	167	228	277	233	270	259	316	325	325	302	319	310	312	280	W
14-Feb-08	277	282	297	301	281	311	117	117	116	131	131	267	264	252	247	245	258	249	256	250	237	234	233	238	246	WSW
15-Feb-08	251	198	185	208	230	118	145	144	140	239	260	252	246	236	243	242	243	246	250	253	244	243	241	242	240	WSW
16-Feb-08	242	242	238	245	250	242	248	252	248	244	240	255	276	279	278	278	276	272	281	243	248	237	257	286	254	WSW
17-Feb-08	261	190	284	234	175	130	110	126	97	208	278	292	315	284	261	273	319	310	294	294	286	260	213	194	268	W
18-Feb-08	82	293	79	119	85	100	118	283	312	279	324	296	287	263	277	278	301	279	282	3	116	144	299	83	301	WNW
19-Feb-08	101	147	226	250	332	302	292	321	295	277	297	55	226	243	321	1	75	82	76	27	304	302	332	291	312	NW
20-Feb-08	320	276	303	314	323	269	311	309	298	309	269	271	260	272	278	300	292	307	309	320	320	305	279	294	296	WNW
21-Feb-08	P	P	304	295	308	330	338	302	291	306	296	270	288	279	267	277	274	314	21	303	310	321	320	330	304	NW
22-Feb-08	302	326	328	320	295	318	292	72	333	199	298	269	263	268	280	317	294	297	313	321	317	313	282	294	300	WNW
23-Feb-08	308	315	302	314	314	240	277	335	316	276	306	39	5	338	293	46	302	287	325	1	303	12	55	90	325	NW
24-Feb-08	332	313	309	321	316	311	319	317	278	306	69	78	90	57	12	29	79	43	39	44	45	51	56	58	20	NNE
25-Feb-08	60	74	73	49	61	79	86	284	2	281	268	274	286	272	271	285	308	313	282	301	159	214	259	234	298	WNW
26-Feb-08	273	291	291	195	195	171	231	277	214	209	97	38	27	65	76	73	69	70	53	51	40	61	69	73	66	ENE
27-Feb-08	64	90	78	107	111	41	357	327	289	283	269	285	216	255	244	243	253	248	247	247	249	249	253	243	249	WSW
28-Feb-08	248	254	292	307	286	280	293	313	325	250	235	247	257	256	248	246	242	258	227	223	89	105	104	83	255	WSW
29-Feb-08	103	123	123	114	125	129	160	182	339	188	52	113	108	79	50	62	74	73	81	83	80	73	82	75	91	E
Hourly Avg	294	286	294	289	281	288	281	287	292	267	272	266	263	267	267	277	285	282	292	298	288	285	277	283		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1
	85.3	68.3	33.6	18.9	10.5	4.7	3.5

Status Flag Characters

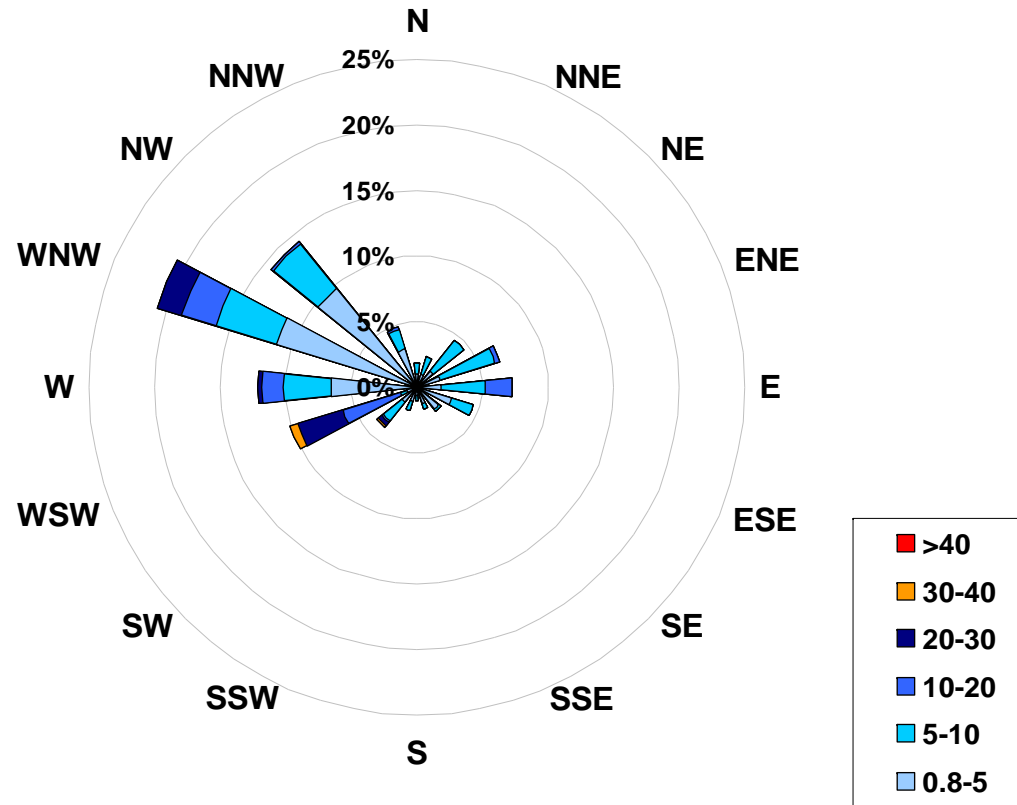
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

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-Feb-08	20	26	20	18	20	12	16	22	38	17	9	14	24	32	17	23	22	22	10	17	14	9	12	9	38.0	
2-Feb-08	15	19	24	16	17	20	25	40	32	19	25	21	8	7	11	27	14	59	19	54	59	53	34	16	59.4	
3-Feb-08	14	25	12	10	12	9	10	13	41	31	21	21	16	12	20	25	43	18	12	12	21	47	42	13	46.9	
4-Feb-08	10	16	19	49	53	40	41	17	75	48	11	33	54	35	15	19	25	15	16	70	15	32	44	23	74.8	
5-Feb-08	21	36	71	43	52	73	50	68	18	11	9	6	8	5	20	13	12	42	8	7	5	6	5	4	72.5	
6-Feb-08	4	4	6	6	4	5	5	7	5	6	11	13	20	21	32	19	9	12	21	23	19	17	17	17	32.3	
7-Feb-08	17	20	16	15	14	12	14	8	21	20	63	34	20	16	13	11	11	15	18	16	19	10	10	15	63.4	
8-Feb-08	8	8	5	6	4	5	7	5	5	6	6	6	5	5	7	6	4	4	6	6	5	6	9	15	14.7	
9-Feb-08	42	26	30	4	29	15	14	16	17	19	38	35	53	60	30	18	12	7	7	6	6	6	5	6	59.9	
10-Feb-08	7	9	11	15	30	11	21	11	12	22	20	38	59	23	24	21	24	17	15	19	12	9	15	48	58.8	
11-Feb-08	96	62	93	74	80	62	44	65	21	41	37	39	47	30	18	42	8	5	8	9	9	24	26	28	95.7	
12-Feb-08	16	11	10	17	13	11	15	12	11	28	29	43	74	51	81	80	28	64	72	41	70	78	80	62	81.2	
13-Feb-08	28	52	22	85	65	14	29	29	15	26	20	61	28	30	18	28	55	27	43	64	22	20	9	15	84.7	
14-Feb-08	14	23	24	17	20	58	34	31	19	13	24	39	9	6	4	5	6	5	5	12	5	6	5	6	57.8	
15-Feb-08	10	16	10	13	13	69	30	31	30	23	5	9	6	7	3	4	5	6	6	10	4	4	2	3	69.2	
16-Feb-08	3	3	4	5	4	4	4	6	7	5	7	16	3	4	3	3	5	10	33	8	6	9	16	9	32.8	
17-Feb-08	65	73	42	35	11	19	16	29	31	76	47	17	11	17	12	19	16	21	34	13	10	31	34	39	75.6	
18-Feb-08	85	56	32	39	19	23	23	34	18	11	21	34	26	14	39	44	34	50	49	60	71	77	90	65	89.8	
19-Feb-08	40	57	94	38	38	47	20	33	20	22	30	74	17	37	47	20	33	23	21	69	22	32	33	29	94.0	
20-Feb-08	31	51	19	13	30	51	19	41	22	9	20	6	10	6	19	27	24	10	8	11	9	17	29	30	50.8	
21-Feb-08	P	P	66	29	21	59	56	20	23	14	20	17	20	21	24	22	15	17	33	19	12	7	42	12	65.9	
22-Feb-08	48	58	32	12	8	17	62	59	68	59	22	7	9	8	14	38	17	53	15	13	6	35	28	27	67.7	
23-Feb-08	23	21	20	10	64	30	48	42	39	40	33	45	21	21	27	34	64	18	22	41	36	43	11	28	63.8	
24-Feb-08	77	18	15	12	7	11	18	55	44	15	60	18	18	47	15	30	15	25	19	14	12	7	11	24	77.5	
25-Feb-08	23	12	17	20	13	7	37	39	33	41	85	7	18	10	7	27	17	15	54	21	62	31	39	40	84.8	
26-Feb-08	53	21	26	92	54	56	50	45	58	44	92	19	37	44	13	11	10	13	12	15	22	13	12	20	92.4	
27-Feb-08	14	13	10	18	52	33	66	32	21	63	47	51	37	9	4	4	6	5	5	6	6	4	5	6	66.1	
28-Feb-08	7	9	13	13	23	12	14	20	24	27	5	7	7	6	7	6	4	13	14	32	84	20	11	63	84.1	
29-Feb-08	52	38	29	10	25	44	7	71	97	68	83	19	11	24	12	17	9	9	7	6	6	8	8	17	97.4	

Hourly Max	96	73	94	92	80	73	66	71	97	76	92	74	74	60	81	80	64	64	72	70	84	78	90	65
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range		Frequency (hrs)	
0.8	< 5	333	
5	to 10	231	
10	to 20	82	
20	to 30	43	
30	to 40	5	
	> 40	0	
Total Non-Zero Values			694

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

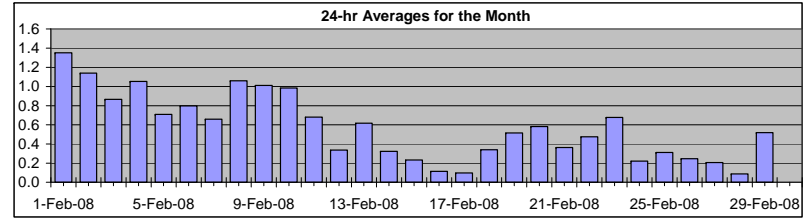
Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 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:	4.3 ppb	29-Feb	11:00	12:00
Maximum 24-hr Average:	1.4 ppb	1-Feb		

AIC Time:	31 hrs		Operational Time:	662 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	99.9%					
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	1.6	0.8	0.5	0.2	0.0	0.0	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	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-Feb-08	0:00	1:00	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	A	1	1	1	1	1.4	2.1
2-Feb-08	1:00	2:00	1	1	1	1	1	0	0	1	1	1	2	2	2	2	2	2	2	1	1	A	1	1	1	1	1	1.1	2.1
3-Feb-08	2:00	3:00	1	1	1	1	0	0	0	0	0	1	1	1	1	2	3	3	2	1	A	0	0	0	0	0	0.9	2.7	
4-Feb-08	3:00	4:00	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	1	A	1	1	1	1	0	1	0	1.1	2.0	
5-Feb-08	4:00	5:00	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.3	
6-Feb-08	5:00	6:00	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.5	
7-Feb-08	6:00	7:00	1	1	2	1	1	1	1	0	P	1	1	1	0	A	0	0	0	0	0	0	1	0	0	0	0.7	1.5	
8-Feb-08	7:00	8:00	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1.1	1.6	
9-Feb-08	8:00	9:00	1	1	1	1	1	0	1	0	1	1	1	1	A	1	2	2	1	1	1	1	1	1	1	2	1.0	2.1	
10-Feb-08	9:00	10:00	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	1.0	1.6	
11-Feb-08	10:00	11:00	0	0	0	0	0	0	0	1	0	1	A	1	2	2	2	1	1	1	1	0	0	0	0	0	0.7	1.9	
12-Feb-08	11:00	12:00	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0.3	0.6	
13-Feb-08	12:00	13:00	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	0.6	1.2	
14-Feb-08	13:00	14:00	1	1	1	0	0	1	0	A	0	1	1	1	C	C	A	0	0	0	0	0	0	0	0	0	0.3	1.0	
15-Feb-08	14:00	15:00	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
16-Feb-08	15:00	16:00	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
17-Feb-08	16:00	17:00	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	
18-Feb-08	17:00	18:00	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.3	0.9	
19-Feb-08	18:00	19:00	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.3	
20-Feb-08	19:00	20:00	A	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0.6	1.0	
21-Feb-08	20:00	21:00	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.8	
22-Feb-08	21:00	22:00	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0.5	1.1	
23-Feb-08	22:00	23:00	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	1	1	1	1	0	A	0	0	0.7	1.7	
24-Feb-08	23:00	0:00	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	
25-Feb-08	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	A	0	0	0	0	0	0.3	1.0	
26-Feb-08	1:00	2:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	0.2	0.6	
27-Feb-08	2:00	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0.2	0.9	
28-Feb-08	3:00	4:00	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	0.4	
29-Feb-08	4:00	5:00	1	0	0	0	0	0	0	0	0	0	0	4	2	1	A	0	0	0	0	0	0	0	0	0	0.5	4.3	
Hourly Avg	0:00	1:00	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.6	0.5	0.4	0.4	0.4	0.4	0.4	
Hourly Max	0:00	1:00	1.6	1.6	1.5	1.3	1.1	1.4	1.0	1.0	1.1	1.2	2.0	4.3	2.1	2.1	2.7	2.5	2.2	1.5	1.3	1.0	1.2	1.4	1.4	1.6			

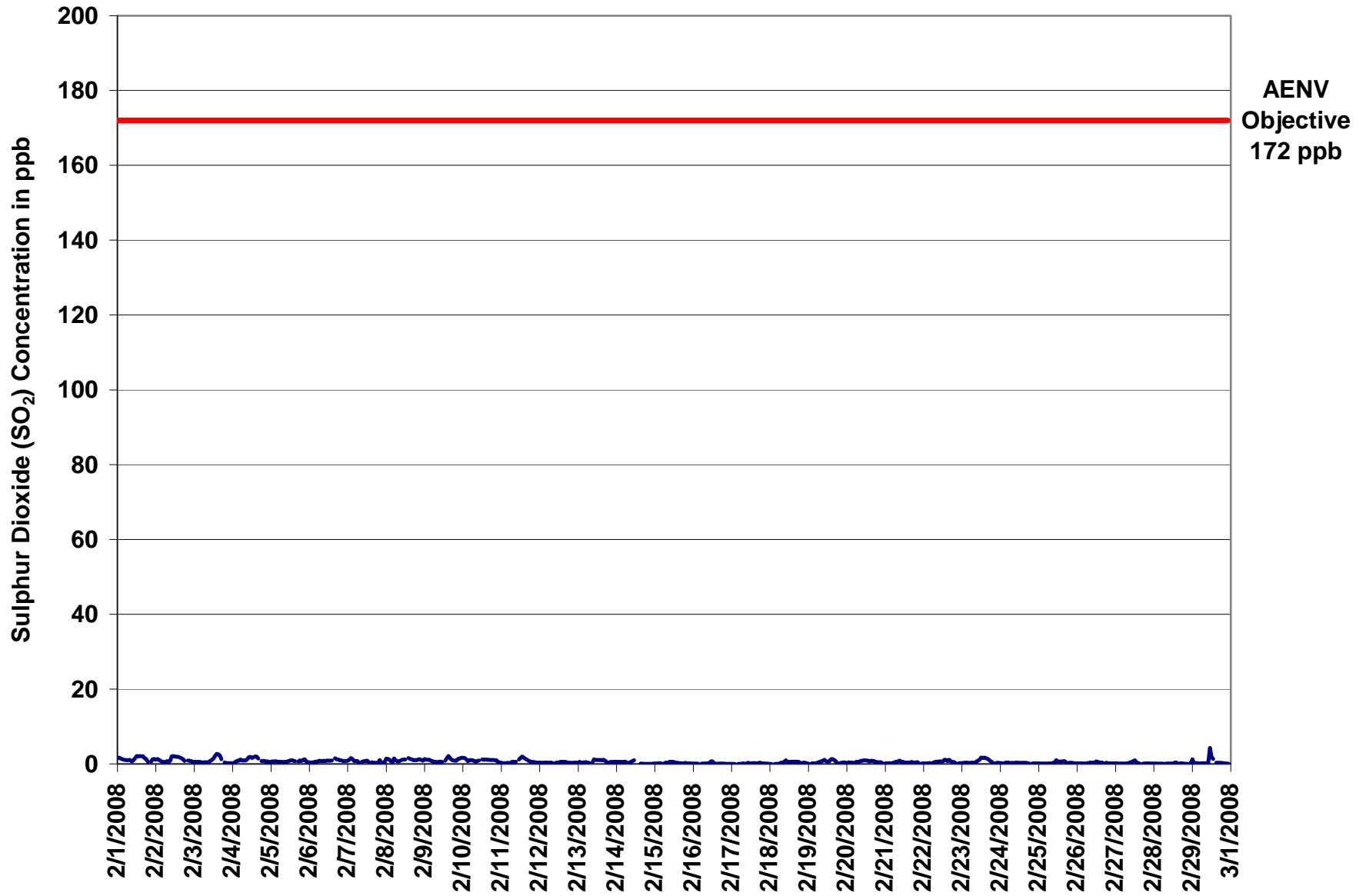


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

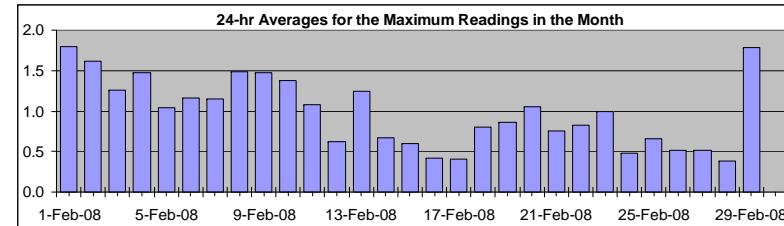
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	15.6	ppb	29-Feb	11:00 12:00
Maximum 24-hr Value:	1.8	ppb	1-Feb	



AIC Time:	31 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	2.1	1.3	0.9	0.5	0.3	0.2	1.0 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-Feb-08	2	2	2	2	1	1	1	2	2	1	2	2	3	2	2	2	2	2	2	1	A	1	2	2	1.8	2.6
2-Feb-08	2	2	2	1	1	1	1	1	1	2	3	3	2	2	2	2	2	2	1	A	1	1	1	1	1.6	3.3
3-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	2	A	1	1	1	1	0	1.3	3.2
4-Feb-08	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	A	2	1	1	1	1	1	1.5	2.4
5-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	2	1	1	1.0	1.5
6-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1	1	1	1	1	1.2	2.1
7-Feb-08	1	2	2	2	1	1	1	1	P	1	1	1	1	1	A	1	1	1	1	1	2	1	1	1	1.1	2.3
8-Feb-08	2	2	2	2	1	2	2	1	1	1	2	2	1	A	2	2	2	1	1	1	2	2	1	1	1.5	2.4
9-Feb-08	2	2	1	1	1	1	1	1	1	1	1	1	A	1	3	3	2	1	1	1	1	2	2	2	1.5	3.3
10-Feb-08	2	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1.4	1.9
11-Feb-08	1	1	1	0	1	1	1	1	1	1	A	2	2	2	2	2	1	1	1	1	1	2	1	1	1.1	2.4
12-Feb-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	0.6	0.9
13-Feb-08	0	2	1	1	1	1	1	1	A	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1.2	3.3
14-Feb-08	1	1	1	1	1	1	1	A	1	1	1	1	C	C	A	0	0	0	0	0	0	1	0	0.7	1.5	
15-Feb-08	0	0	0	0	0	A	1	1	1	1	1	2	1	1	1	0	1	0	0	1	0	0	0	0	0.6	1.8
16-Feb-08	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	1	0	0	0.4	1.3
17-Feb-08	0	0	0	A	0	0	0	1	0	0	1	0	0	0	1	0	0	1	1	1	0	0	0	0	0.4	1.1
18-Feb-08	0	0	A	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	0	1	2	1	0	0.8	1.8
19-Feb-08	0	A	0	0	0	0	1	1	1	1	1	1	1	1	2	2	1	1	1	0	1	1	1	1	0.9	1.8
20-Feb-08	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1.1	1.8
21-Feb-08	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.5
22-Feb-08	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	1	2	1	1	1	0	A	0	1	0.8	1.6
23-Feb-08	0	1	1	1	0	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	A	0	1	0	1.0	2.2
24-Feb-08	0	0	0	0	1	1	0	1	0	0	1	1	1	1	1	1	1	1	0	A	0	0	0	0	0.5	0.6
25-Feb-08	0	0	0	0	0	0	0	1	0	1	1	2	1	1	1	1	1	1	A	1	1	1	1	0	0.7	1.6
26-Feb-08	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0.5	0.9
27-Feb-08	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	A	0	0	0	0	1	0	0	0.5	1.3
28-Feb-08	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	1	0	0	0	0	0	1	0.4	0.9
29-Feb-08	2	1	1	0	1	0	1	1	0	1	1	16	11	2	A	1	1	1	1	1	0	0	0	0	1.8	15.6
Hourly Avg	0.8	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.7	1.0	1.3	1.9	1.6	1.3	1.4	1.2	1.2	1.0	0.9	0.8	0.8	0.9	0.8	0.7		
Hourly Max	2.4	2.4	2.3	1.8	1.4	2.1	1.5	1.5	1.5	1.7	3.3	15.6	10.7	2.6	3.3	3.2	2.7	2.1	1.8	1.5	1.7	2.0	2.4	2.0		

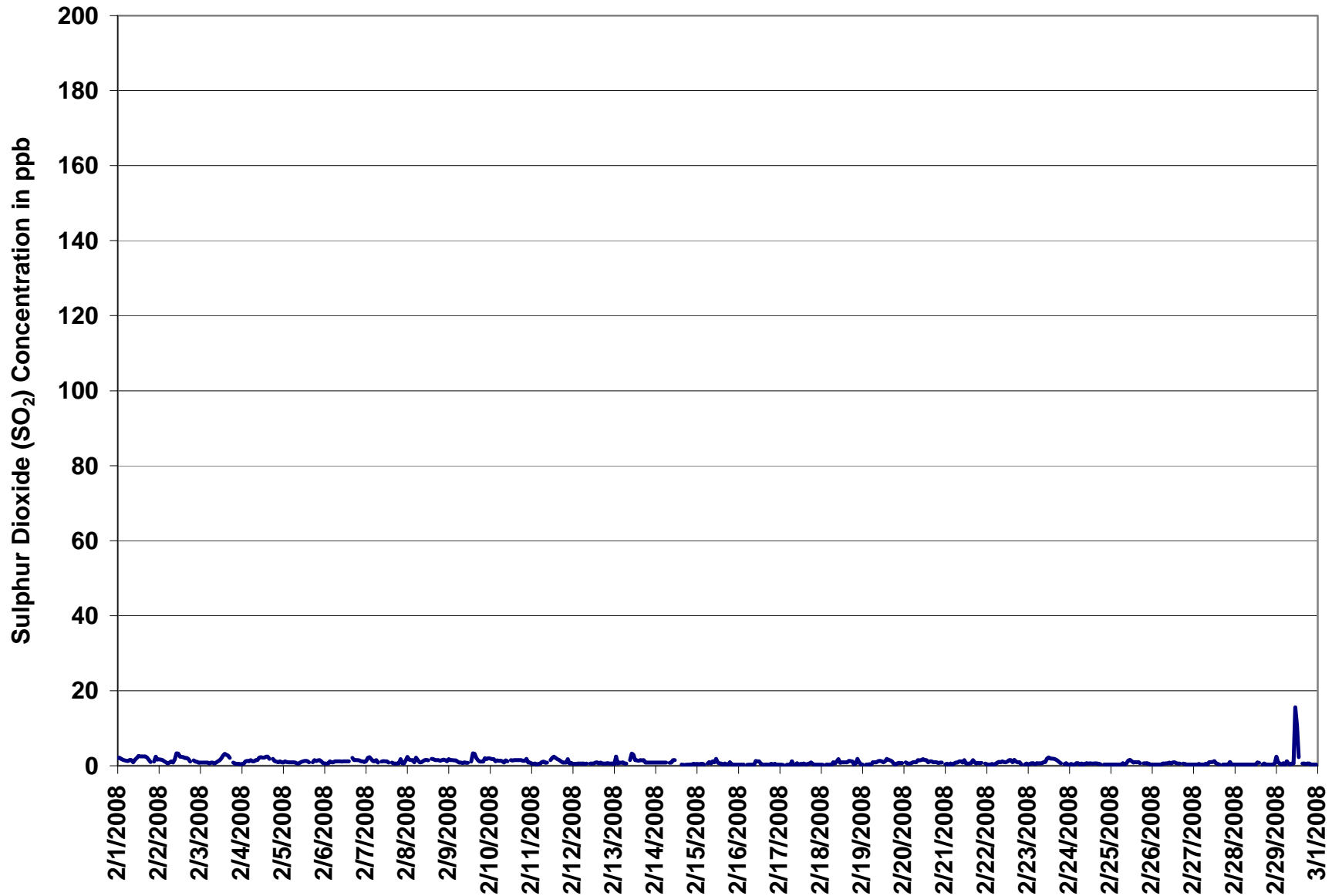
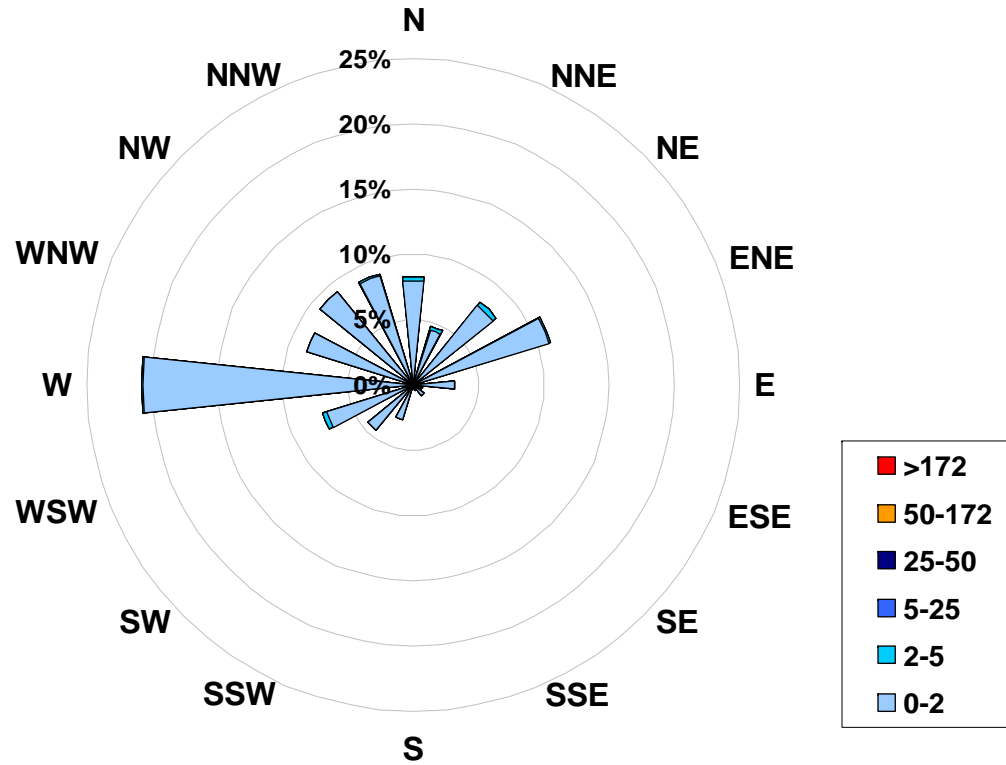


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	649
2	to	5	13
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			662

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

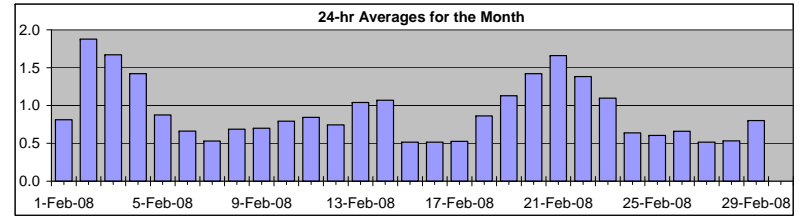
Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	3.8	ppb	19-Feb	9:00 10:00
Maximum 24-hr Value:	1.9	ppb	2-Feb	

AIC Time:	31 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.9	1.2	0.7	0.6	0.5	0.4	0.9 ppb	0.7 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	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-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5
2-Feb-08	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	A	2	2	2	2	2	1.9	2.5
3-Feb-08	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1.7	2.2
4-Feb-08	1	2	2	2	1	1	1	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.4	1.8
5-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	1	1	1	1	0.9	1.5
6-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	0.8
7-Feb-08	1	1	1	1	1	1	1	1	1	P	1	0	1	0	0	A	1	1	1	0	1	1	1	1	1	0.5	0.6
8-Feb-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	1	0.7	0.8
9-Feb-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	1	0.7	0.9
10-Feb-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	1	0.8	1.0
11-Feb-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	1	0.8	1.3
12-Feb-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	1	0.7	0.9
13-Feb-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	2	1.0	1.6
14-Feb-08	2	2	2	2	2	2	2	A	2	1	C	C	A	0	0	0	0	1	1	0	1	0	0	0	0	1.1	2.1
15-Feb-08	1	0	1	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	1	1	0.5	0.7
16-Feb-08	0	0	1	0	A	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.5	0.7
17-Feb-08	0	0	0	A	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	0.5	0.7
18-Feb-08	1	1	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7
19-Feb-08	1	A	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.1	3.8
20-Feb-08	A	2	2	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	A	A	1.4	2.3
21-Feb-08	2	2	2	2	3	2	3	3	3	2	2	1	1	1	1	1	1	1	1	1	1	2	2	A	2	1.7	2.9
22-Feb-08	2	1	2	1	1	2	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.4	2.5
23-Feb-08	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.9
24-Feb-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	1	0.6	0.8
25-Feb-08	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.9
26-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	0	1	0	1	0.7	1.0
27-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0.5	0.8
28-Feb-08	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	0.5	0.6
29-Feb-08	1	1	1	1	1	1	2	1	1	1	1	1	1	0	A	0	0	1	0	0	0	0	0	0	0	0.8	1.6
Hourly Avg	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.0	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9		
Hourly Max	2.2	2.2	2.1	2.3	2.6	2.5	2.6	2.8	2.9	3.8	2.1	2.0	1.7	1.5	1.7	1.7	1.7	2.1	2.2	1.5	2.4	2.4	2.5	2.3			

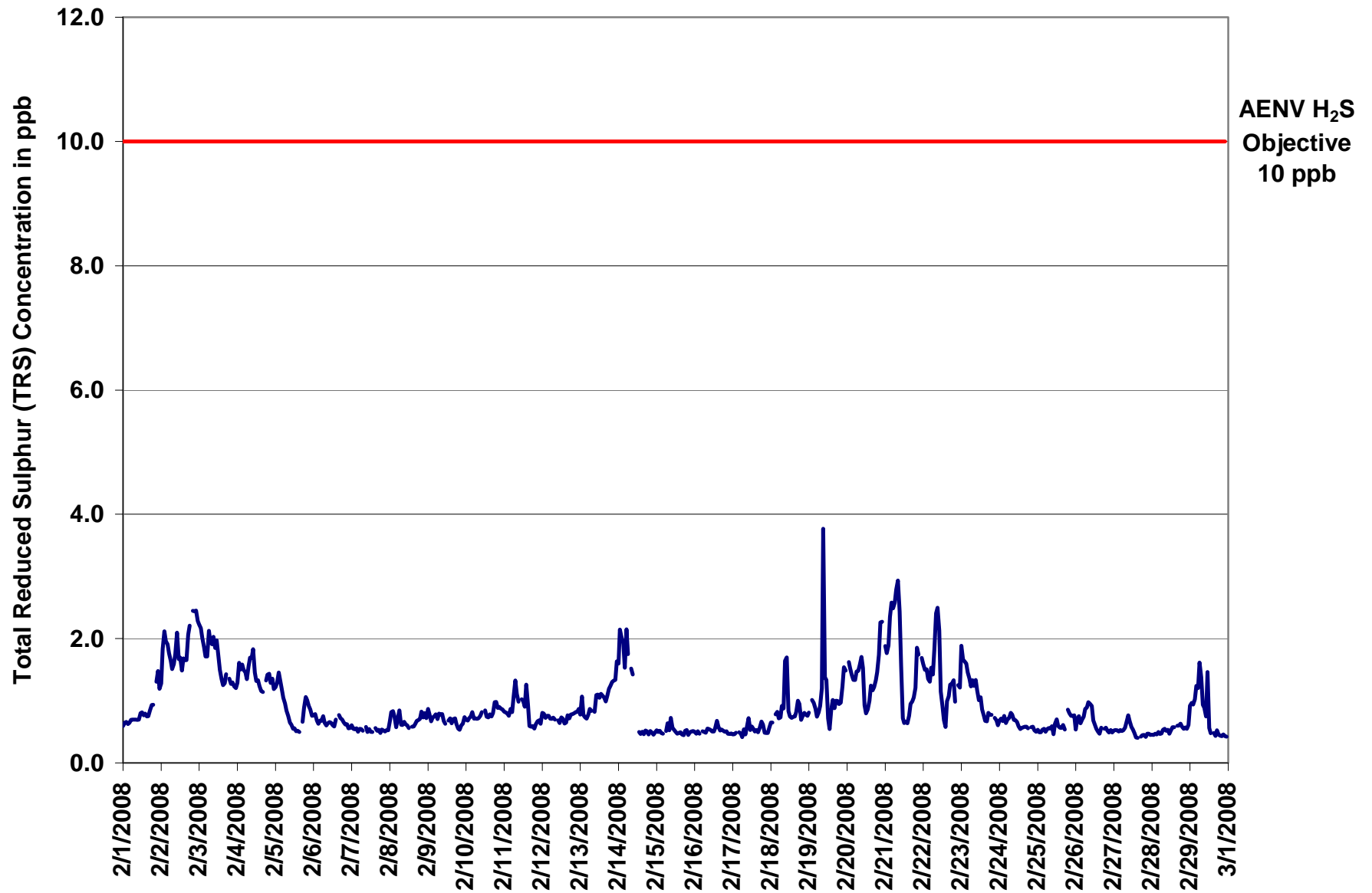


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

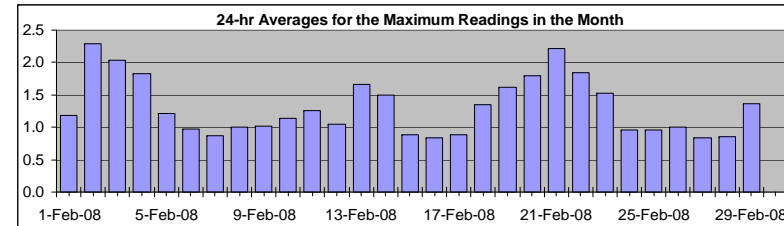
Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	6.9	ppb	19-Feb	9:00 10:00
Maximum 24-hr Value:	2.3	ppb	2-Feb	

AIC Time:	31 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.5	2.5	1.6	1.1	0.9	0.8	0.7	1.3 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

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-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A	2	2	1	1.2	2.5
2-Feb-08	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	A	3	3	3	3	3	2.3	3.1
3-Feb-08	3	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	A	2	2	2	2	2	2	2.0	2.6
4-Feb-08	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	A	2	2	2	2	2	2	1.8	2.4
5-Feb-08	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.2	1.9
6-Feb-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	1.0	1.2
7-Feb-08	1	1	1	1	1	1	1	1	P	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.9	1.2
8-Feb-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	1.0	1.2
9-Feb-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	1.0	1.4
10-Feb-08	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1.1	1.7
11-Feb-08	1	1	1	1	1	1	2	2	2	1	A	1	1	1	2	2	1	1	1	1	1	1	1	1	1.3	2.1
12-Feb-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	1.1	1.2
13-Feb-08	1	2	1	1	1	1	1	1	A	1	4	4	1	1	1	1	1	2	2	2	2	2	2	2	1.7	4.1
14-Feb-08	2	3	3	2	2	4	2	A	2	2	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1.5	3.5
15-Feb-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	1.4
16-Feb-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	1.1
17-Feb-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	1.3
18-Feb-08	1	1	A	1	1	1	1	1	1	3	3	1	1	1	1	1	1	2	1	1	1	2	1	1	1.4	3.4
19-Feb-08	1	A	1	1	1	1	1	1	2	7	2	2	1	1	1	1	1	1	1	1	1	2	2	2	1.6	6.9
20-Feb-08	A	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	3	3	A	1.8	2.8
21-Feb-08	2	2	2	3	3	3	3	3	4	3	2	1	1	1	1	1	2	1	1	2	3	2	A	2	2.2	3.9
22-Feb-08	2	2	2	2	2	2	2	2	3	4	3	2	1	1	1	1	1	2	2	2	1	A	2	2	1.8	3.7
23-Feb-08	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1.5	3.0
24-Feb-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	1.0	1.2
25-Feb-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	1.0	1.3
26-Feb-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	1.0	1.4
27-Feb-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
28-Feb-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	1.0
29-Feb-08	1	1	1	2	2	2	2	2	2	1	1	4	2	1	A	1	1	1	1	1	1	1	1	1	1.4	3.8
Hourly Avg	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.5	1.8	1.5	1.4	1.2	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.2		
Hourly Max	3.0	2.7	2.8	3.4	3.0	3.5	3.3	3.5	3.9	6.9	4.1	3.8	2.2	1.9	2.1	2.0	2.1	2.4	2.6	1.9	3.1	2.7	2.8	2.8		

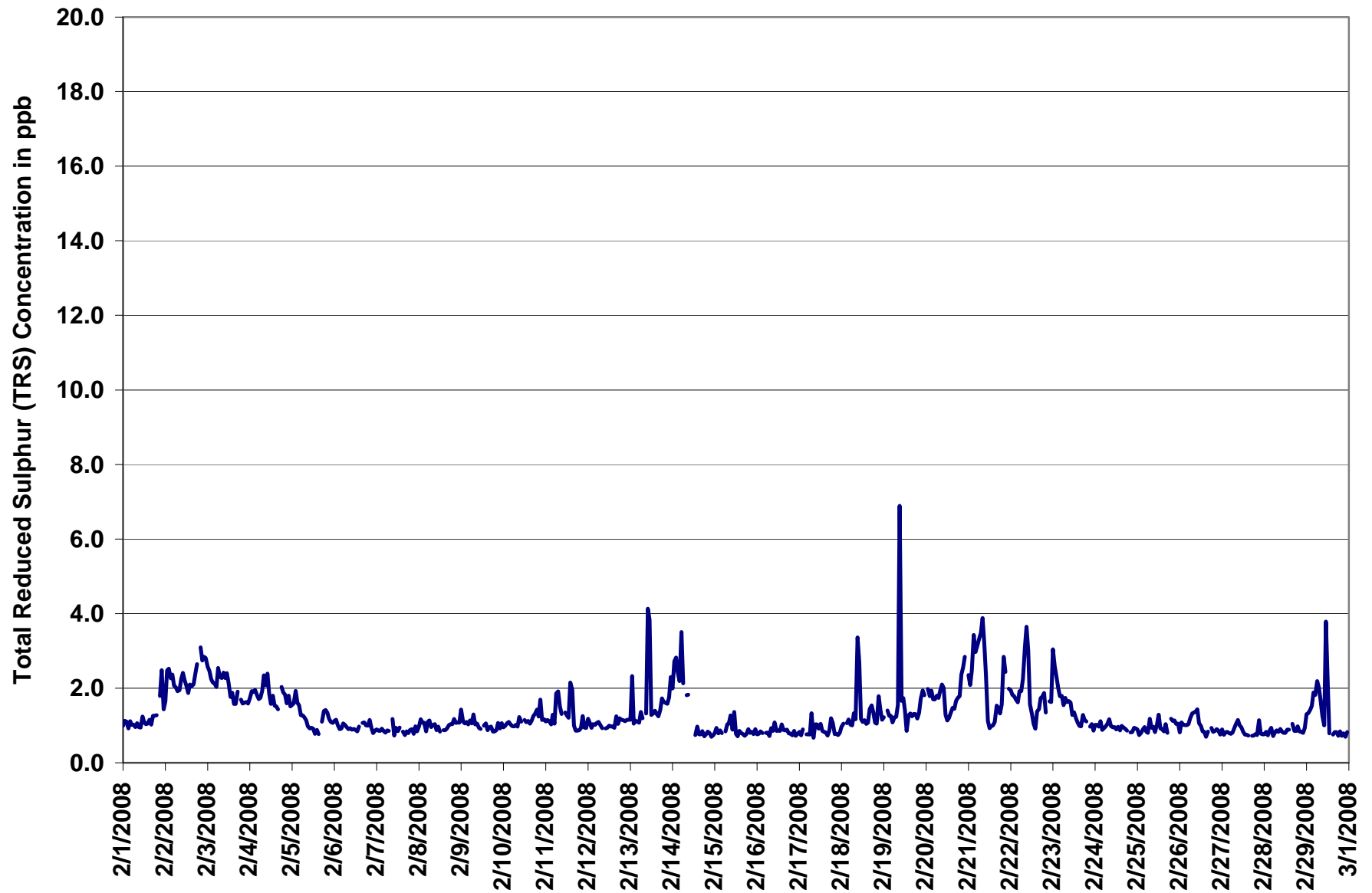
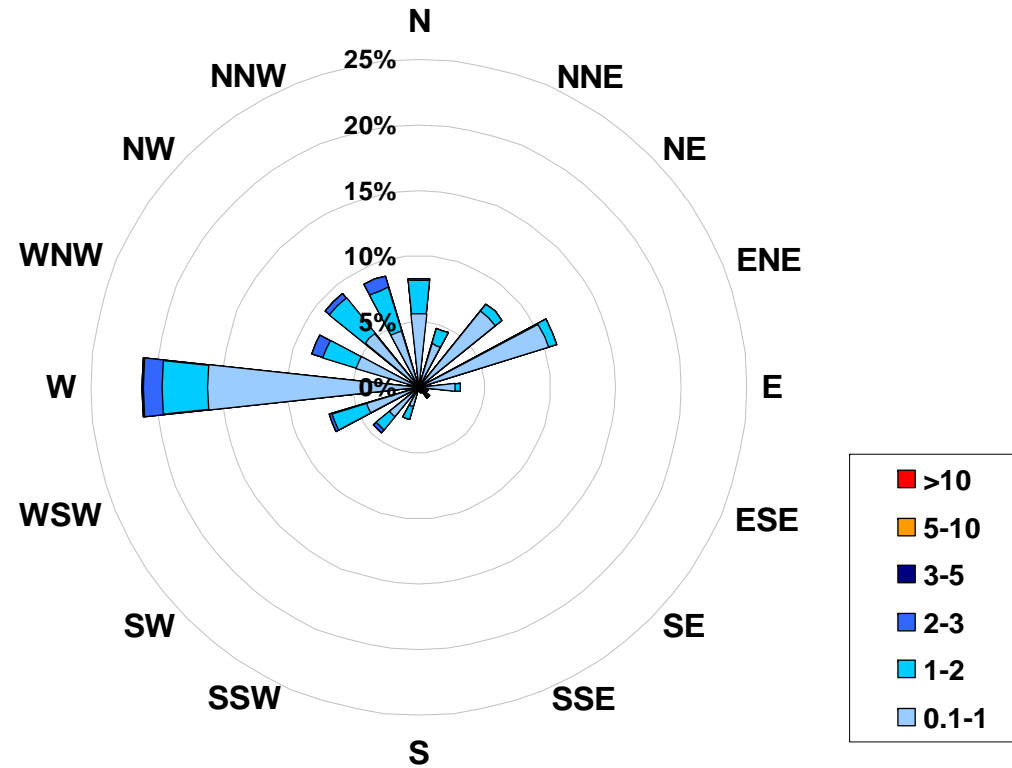


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	470
1	to	2	162
2	to	3	28
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			662

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

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

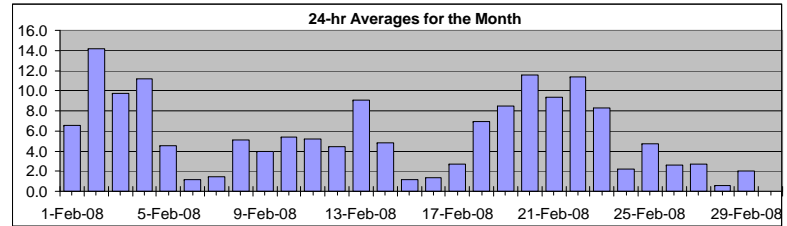
Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 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:	23.9 µg/m ³ 22-Feb 9:00 10:00
Maximum 24-hr Value:	14.2 µg/m ³ 2-Feb

AIC Time:	0 hrs	Operational Time:	686 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	98.6%
Percentile	99	95	75
	20.0	15.5	8.7
	5.2	1.3	0.0
	0.0	0.0	0.0
	Average / Median		5.7
	5 µg/m ³		4.3 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	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-Feb-08	5	5	5	5	5	5	6	6	5	5	8	8	7	6	7	6	5	7	8	6	6	10	12	10	6.5	12.2
2-Feb-08	9	9	9	9	9	9	10	10	10	14	23	17	22	19	17	16	17	20	17	16	17	16	15	13	14.2	23.2
3-Feb-08	13	12	12	12	10	10	12	14	15	20	18	16	10	6	4	6	5	4	5	5	5	6	6	9.7	19.6	
4-Feb-08	7	8	8	9	8	7	8	10	12	15	18	17	14	20	17	13	9	9	11	11	12	8	10	9	11.2	19.7
5-Feb-08	9	11	11	13	11	11	8	6	3	1	0	0	D	0	D	D	D	0	0	0	2	2	1	2	4.5	13.3
6-Feb-08	2	1	2	2	2	3	3	1	1	1	0	0	0	1	3	2	1	1	0	0	0	0	0	0	1.1	3.2
7-Feb-08	0	0	1	1	1	1	1	1	P	P	3	1	1	0	1	1	1	1	1	3	3	3	2	1.5	3.2	
8-Feb-08	4	4	4	3	3	3	7	7	6	6	5	5	5	5	6	6	5	7	6	6	5	5	7	6	5.1	7.5
9-Feb-08	6	6	6	5	6	6	5	5	6	6	9	6	4	5	6	2	3	2	1	0	0	0	0	1	4.0	8.6
10-Feb-08	2	2	2	1	3	4	3	3	2	4	6	5	5	7	8	9	8	9	12	8	6	7	8	7	5.4	12.1
11-Feb-08	6	6	6	7	6	6	6	9	8	10	10	11	12	8	6	3	2	1	1	0	0	1	1	2	5.2	11.8
12-Feb-08	0	1	2	3	2	1	1	1	1	2	3	3	4	2	5	6	6	6	8	9	10	9	9	11	4.5	10.6
13-Feb-08	10	13	11	9	8	8	9	8	7	8	7	7	6	8	8	9	6	9	10	11	11	11	12	12	9.1	12.6
14-Feb-08	12	9	8	8	9	9	7	6	8	9	12	12	0	0	0	0	1	0	0	D	0	0	0	0	4.8	12.3
15-Feb-08	0	0	0	0	0	0	0	3	3	11	5	3	D	0	0	0	1	0	2	0	0	0	0	0	1.2	10.7
16-Feb-08	0	0	0	0	1	2	1	1	1	3	2	1	1	0	0	0	3	2	5	3	1	1	2	2	1.3	4.6
17-Feb-08	0	0	0	1	0	0	0	3	1	3	5	5	8	6	5	2	3	7	7	5	1	1	0	0	2.7	7.9
18-Feb-08	1	1	0	0	0	0	1	6	3	11	7	2	8	8	9	9	11	22	20	8	8	10	12	8	6.9	21.5
19-Feb-08	9	9	9	9	7	5	7	8	11	16	6	7	6	4	4	8	9	11	6	9	10	12	11	9	8.5	15.6
20-Feb-08	9	9	7	7	6	8	11	10	12	18	19	10	11	14	10	18	18	20	21	11	9	9	7	6	11.6	20.6
21-Feb-08	7	7	7	8	8	8	10	11	14	24	7	7	3	4	5	6	12	16	13	12	11	11	7	7	9.3	23.9
22-Feb-08	7	7	8	9	8	8	10	10	13	24	11	13	12	8	6	16	18	19	17	15	9	9	8	11.4	23.9	
23-Feb-08	12	11	9	10	10	10	9	9	9	11	10	9	8	7	5	5	6	9	10	10	10	7	4	2	8.3	11.7
24-Feb-08	3	5	7	7	1	2	5	7	8	0	0	2	1	1	1	1	1	1	1	0	0	0	0	0	2.2	8.3
25-Feb-08	0	0	0	0	0	0	0	1	3	4	0	5	7	6	7	7	9	11	10	10	9	10	8	6	4.7	10.9
26-Feb-08	1	1	3	2	3	3	3	3	3	4	5	4	2	1	0	1	3	3	3	3	3	2	3	2	2.6	4.9
27-Feb-08	3	3	2	2	2	1	1	2	4	10	5	10	6	D	D	0	3	3	0	1	0	0	0	0	2.7	10.1
28-Feb-08	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	3	1	0	1	1	0.5	3.1
29-Feb-08	0	2	2	3	3	3	5	6	4	6	6	9	0	0	0	0	0	0	0	0	0	0	0	0	2.1	8.5
Hourly Avg	4.8	4.9	4.9	5.0	4.6	4.7	5.0	5.7	6.2	8.7	7.2	6.6	6.1	5.3	5.1	5.4	5.9	6.8	6.8	5.9	5.2	5.1	5.2	4.7		
Hourly Max	12.5	12.6	12.2	13.3	11.1	10.7	11.7	14.4	15.0	23.9	23.2	17.4	22.1	19.7	16.6	18.0	18.2	21.5	20.6	15.6	16.6	15.7	14.9	13.0		

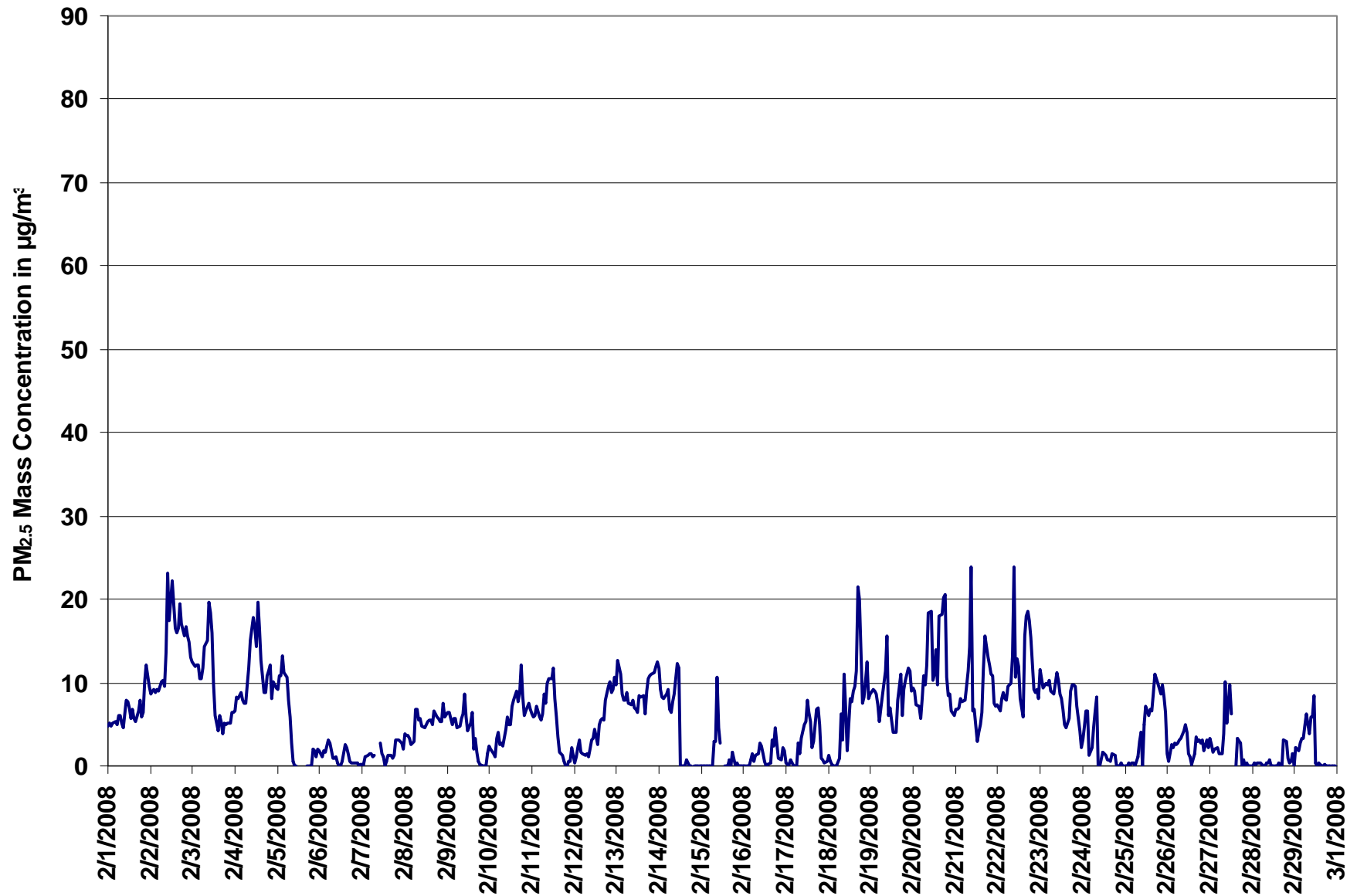


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

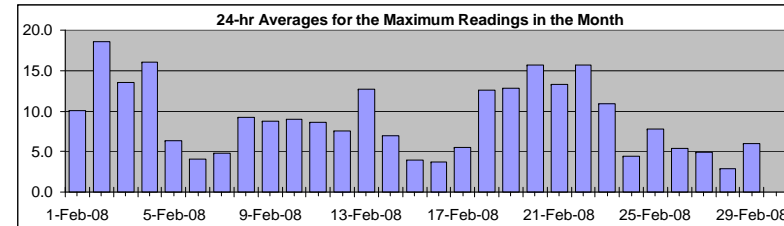
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	36.4	µg/m ³	18-Feb	17:00 18:00
Maximum 24-hr Value:	18.6	µg/m ³	2-Feb	



AIC Time:	0 hrs	Operational Time:	694 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	25.9	20.8	12.4	8.8	3.9	1.6	0.0	9.0	9 µg/m ³
									8.0 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

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-Feb-08	8	8	8	8	8	9	8	9	9	8	11	11	10	11	9	8	9	10	11	10	11	15	18	13	10.1	17.8
2-Feb-08	13	13	13	13	14	12	14	14	14	22	27	22	27	24	24	20	22	24	21	20	20	19	19	16	18.6	27.4
3-Feb-08	16	16	16	16	14	14	15	19	19	24	22	22	14	9	9	9	8	6	9	8	9	9	11	10	13.6	24.1
4-Feb-08	12	13	12	15	12	12	12	15	24	20	21	22	17	23	22	16	13	11	18	17	18	13	13	14	16.1	23.7
5-Feb-08	13	15	14	17	15	15	11	9	6	3	2	2	0	0	0	0	5	6	4	5	4	4	5	6.4	16.6	
6-Feb-08	4	5	4	5	5	6	5	4	4	4	3	2	3	4	7	6	4	4	3	3	2	3	4	3	4.0	6.5
7-Feb-08	3	3	3	4	5	4	3	4	P	P	6	5	5	3	4	3	4	4	5	7	10	9	6	6	4.8	10.1
8-Feb-08	9	8	8	8	6	7	11	10	9	9	9	8	9	9	10	10	9	11	10	10	9	9	13	11	9.2	12.6
9-Feb-08	11	12	11	10	10	11	10	10	10	14	15	10	10	10	12	7	7	5	5	4	3	2	3	6	8.8	14.7
10-Feb-08	7	5	6	4	8	8	7	6	6	8	9	8	8	13	11	12	10	12	16	14	9	10	10	10	9.0	16.0
11-Feb-08	8	9	9	11	9	10	11	13	11	13	16	17	18	13	12	7	3	4	2	2	0	3	2	7	8.7	17.6
12-Feb-08	4	4	4	5	4	4	7	5	8	4	7	7	7	5	8	9	9	9	10	13	12	12	12	13	7.5	12.8
13-Feb-08	13	18	17	11	11	10	12	10	10	11	18	12	10	11	10	11	8	13	13	15	13	14	17	17	12.7	18.3
14-Feb-08	14	13	11	10	11	14	10	9	11	12	15	16	9	1	0	2	3	1	1	0	0	2	1	2	7.0	15.8
15-Feb-08	2	4	1	3	2	3	3	7	11	16	10	8	0	3	4	3	2	2	3	4	2	0	0	2	4.0	15.9
16-Feb-08	1	1	2	1	3	3	2	3	4	5	4	3	3	1	3	3	12	5	6	6	3	4	5	4	3.7	11.7
17-Feb-08	4	3	3	3	2	1	3	10	4	6	8	8	10	10	8	4	4	11	12	8	2	2	2	3	5.6	12.4
18-Feb-08	3	3	3	3	3	2	3	10	7	19	19	11	12	11	12	15	23	36	27	13	12	21	25	9	12.5	36.4
19-Feb-08	10	11	11	11	12	7	13	10	14	23	12	15	8	7	9	14	14	14	15	17	15	16	15	12	12.8	23.2
20-Feb-08	13	11	10	11	8	14	14	12	19	22	28	14	15	17	13	25	25	25	25	15	11	12	8	8	15.6	28.2
21-Feb-08	10	9	9	10	10	9	12	15	18	32	18	11	6	6	9	15	16	26	16	14	13	14	10	9	13.3	32.1
22-Feb-08	11	8	12	11	11	10	13	14	19	31	18	21	18	16	10	21	24	20	21	21	12	13	11	10	15.7	30.8
23-Feb-08	16	13	11	12	12	13	11	11	11	14	13	12	11	10	7	7	9	12	13	14	11	9	7	4	10.9	15.8
24-Feb-08	4	9	9	10	5	4	6	8	10	8	2	3	4	3	3	2	2	4	3	1	2	1	2	2	4.5	10.0
25-Feb-08	1	2	3	2	3	2	2	3	8	11	3	9	10	8	9	10	13	13	12	13	12	13	13	9	7.7	13.5
26-Feb-08	8	5	5	5	5	5	7	6	6	8	10	7	4	3	3	3	7	6	4	4	5	3	5	4	5.4	10.2
27-Feb-08	5	4	4	5	5	4	4	4	6	14	11	15	11	2	0	2	6	7	2	2	3	2	1	0	5.0	14.8
28-Feb-08	1	3	2	2	2	2	1	2	2	2	3	2	2	2	1	2	2	4	10	7	4	3	3	4	2.8	10.5
29-Feb-08	6	5	5	6	7	7	9	9	8	9	8	22	18	4	2	2	3	4	0	0	3	2	2	2	6.0	21.9
Hourly Avg	7.9	7.9	7.8	8.0	7.6	7.7	8.3	9.0	10.2	13.4	12.1	11.1	9.5	8.2	7.9	8.6	9.4	10.7	10.4	9.2	8.1	8.2	8.4	7.4		
Hourly Max	16.3	17.7	17.1	16.6	14.6	15.1	15.0	18.8	23.7	32.1	28.2	22.1	26.9	23.6	23.6	24.7	25.0	36.4	27.3	21.2	20.4	20.9	25.4	16.6		

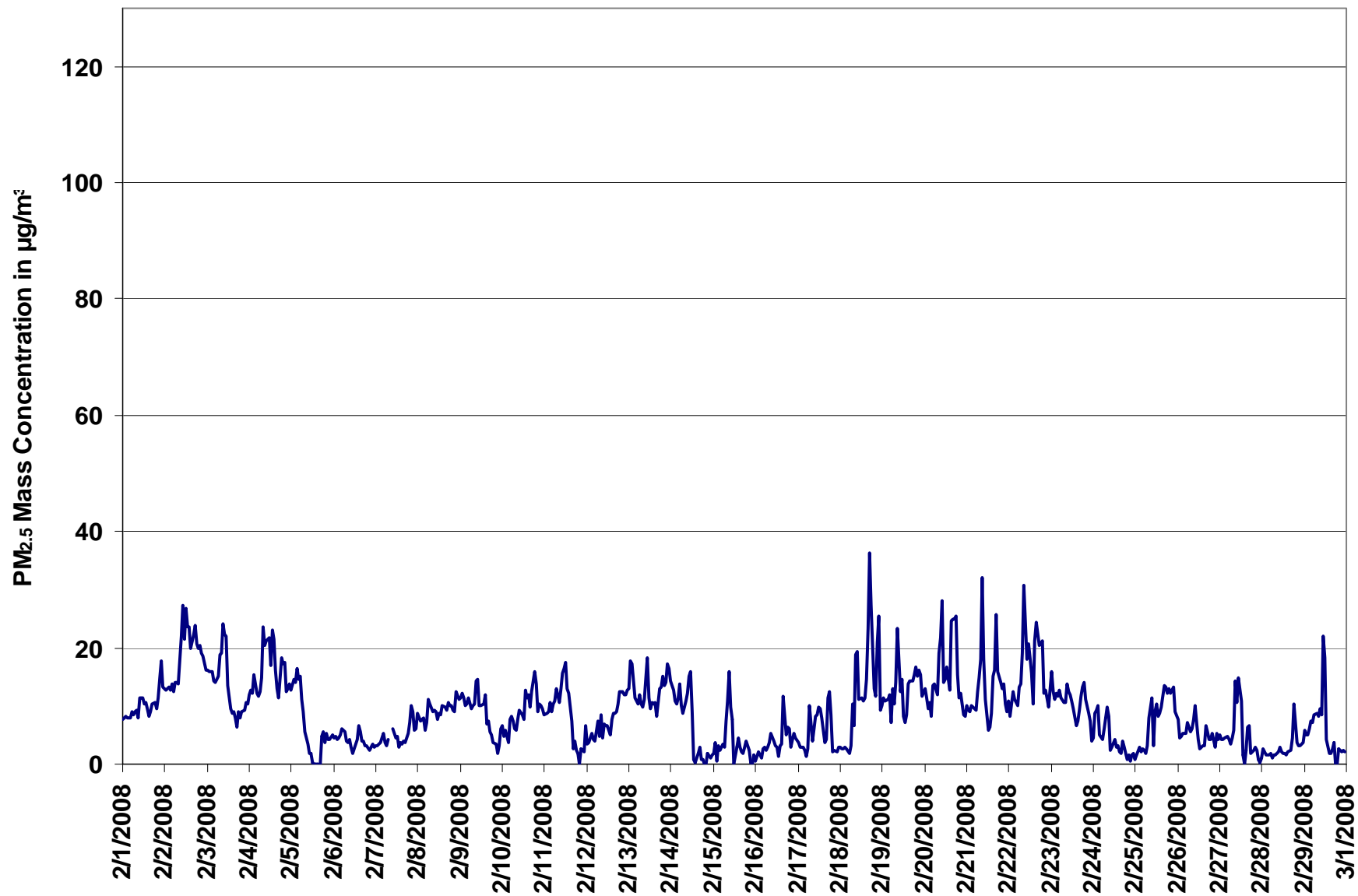
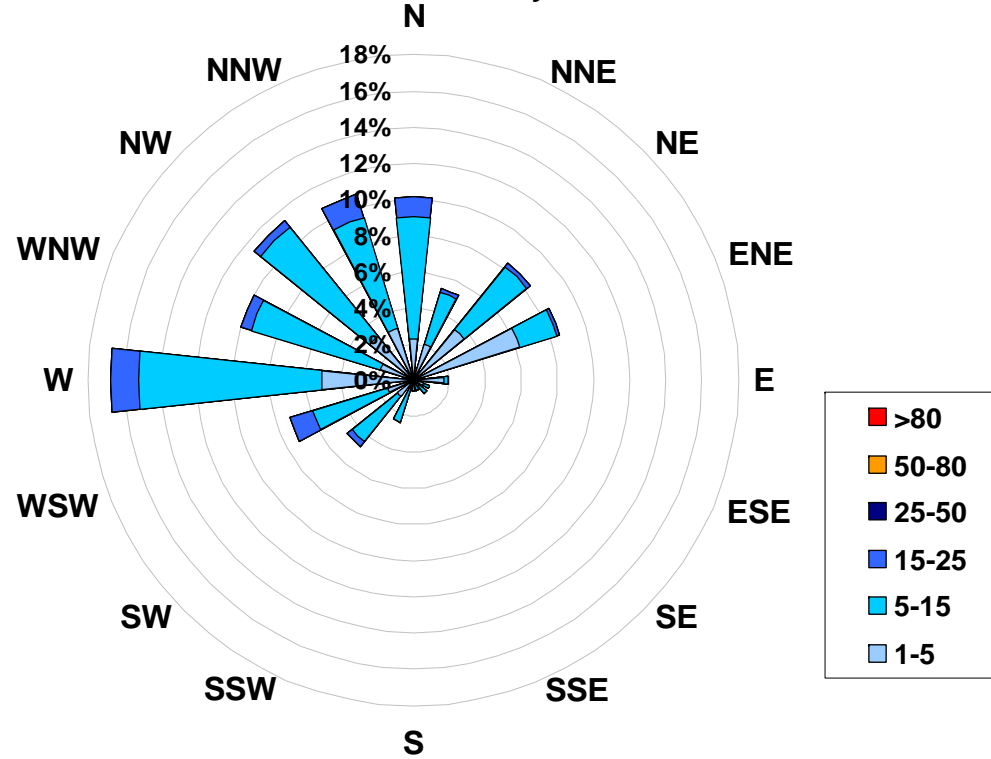


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 February 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		331
5	to 15		317
15	to 25		38
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			686

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

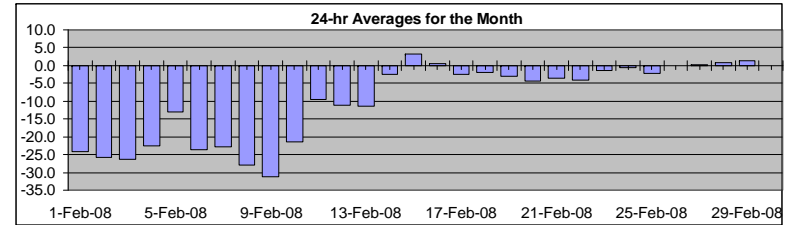
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	8.7 °C	21-Feb	16:00 17:00
Maximum 24-hr Value:	3.3 °C	15-Feb	



AIC Time:	0 hrs	Operational Time:	695 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.5	5.4	-0.1	-6.9	-21.9	-30.1	-35.1	-10.0 °C	-6.9 °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-Feb-08	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-26	-23	-20	-21	-20	-19	-19	-20	-23	-26	-28	-29	-30	-30	-30	-24.2	-19.1
2-Feb-08	-31	-31	-32	-33	-33	-32	-31	-31	-31	-31	-29	-24	-22	-21	-19	-18	-19	-20	-22	-23	-23	-23	-23	-25	-26	-25.9	-18.3
3-Feb-08	-27	-28	-29	-30	-31	-31	-31	-30	-30	-28	-25	-23	-21	-20	-19	-18	-18	-21	-24	-26	-28	-30	-31	-32	-26.2	-18.2	
4-Feb-08	-32	-32	-30	-28	-27	-25	-25	-26	-26	-24	-22	-21	-19	-17	-16	-15	-16	-18	-20	-21	-21	-21	-21	-21	-21	-22.7	-15.0
5-Feb-08	-21	-20	-20	-19	-18	-16	-15	-14	-13	-11	-9	-7	-5	-3	-3	-3	-3	-4	-8	-16	-19	-20	-22	-23	-13.0	-2.9	
6-Feb-08	-24	-24	-25	-25	-25	-26	-26	-25	-25	-25	-25	-24	-23	-22	-22	-22	-23	-23	-23	-22	-22	-22	-23	-23	-23.7	-21.9	
7-Feb-08	-23	-23	-23	-23	-23	-23	-24	-25	P	-23	-22	-21	-21	-22	-22	-22	-22	-23	-23	-23	-23	-23	-24	-24	-22.8	-21.1	
8-Feb-08	-23	-23	-24	-24	-26	-27	-28	-28	-28	-28	-28	-28	-28	-27	-27	-27	-27	-28	-29	-30	-31	-32	-33	-34	-27.9	-23.2	
9-Feb-08	-34	-35	-35	-35	-37	-38	-38	-38	-38	-39	-37	-34	-32	-29	-28	-27	-26	-27	-27	-26	-25	-25	-24	-24	-31.1	-23.6	
10-Feb-08	-23	-22	-23	-24	-24	-24	-24	-24	-25	-24	-23	-21	-20	-19	-18	-18	-18	-18	-19	-19	-19	-19	-21	-22	-23	-21.4	-17.6
11-Feb-08	-23	-24	-24	-24	-24	-24	-22	-20	-17	-15	-12	-8	-4	-1	0	2	3	3	3	2	2	0	0	-2	-9.5	3.0	
12-Feb-08	-6	-10	-11	-12	-13	-14	-14	-15	-14	-14	-13	-11	-10	-8	-8	-9	-9	-9	-9	-10	-10	-11	-12	-14	-11.1	-5.6	
13-Feb-08	-15	-15	-14	-13	-13	-12	-12	-12	-12	-12	-10	-9	-8	-7	-7	-6	-5	-7	-11	-13	-14	-15	-15	-15	-11.4	-5.2	
14-Feb-08	-14	-13	-12	-12	-11	-10	-10	-10	-10	-9	-6	-2	4	5	5	5	5	5	4	5	5	4	5	4	-2.5	5.5	
15-Feb-08	3	2	2	2	1	1	0	0	-2	0	5	7	8	8	7	7	7	6	5	4	3	3	2	2	3.3	7.6	
16-Feb-08	2	2	2	1	1	1	0	0	-1	0	0	1	2	3	3	3	3	1	-1	-2	-2	-3	-3	-5	0.4	3.2	
17-Feb-08	-6	-7	-7	-7	-8	-7	-8	-9	-9	-6	-2	0	2	4	5	6	5	3	0	1	1	0	-3	-4	-2.4	6.3	
18-Feb-08	-5	-6	-6	-7	-8	-9	-9	-8	-8	-5	1	4	4	6	7	8	6	3	-1	-3	-3	-3	-4	-5	-2.1	7.7	
19-Feb-08	-6	-6	-7	-7	-8	-9	-9	-10	-10	-7	-3	-1	3	6	8	8	7	5	-1	-3	-4	-5	-6	-7	-3.0	8.1	
20-Feb-08	-8	-8	-9	-9	-10	-11	-12	-12	-12	-9	-5	-2	1	4	5	6	6	4	-1	-3	-4	-4	-5	-6	-4.4	6.0	
21-Feb-08	-7	-8	-9	-9	-10	-11	-12	-12	-12	-8	-2	0	3	5	7	8	9	6	0	-3	-4	-4	-5	-6	-3.5	8.7	
22-Feb-08	-7	-8	-8	-9	-10	-11	-11	-12	-12	-7	-2	0	2	4	5	5	5	2	-1	-3	-3	-4	-5	-6	-4.0	5.1	
23-Feb-08	-5	-4	-4	-4	-4	-4	-4	-4	-4	-3	-1	1	2	2	2	3	3	1	0	-1	-2	-2	-1	-1	-1.5	2.6	
24-Feb-08	-2	-2	-2	-2	-3	-3	-3	-3	-2	-2	-1	0	1	1	2	2	2	1	1	0	0	0	-1	-1	-0.6	2.1	
25-Feb-08	-1	-2	-3	-3	-3	-4	-6	-7	-8	-5	-1	0	0	2	3	4	5	2	-1	-3	-4	-5	-6	-5	-2.2	5.0	
26-Feb-08	-2	-2	-3	-3	-4	-4	-3	-3	-3	-1	1	3	5	6	7	7	4	3	1	-1	-2	-2	-4	-4	-0.1	7.4	
27-Feb-08	-4	-4	-4	-4	-4	-3	-4	-4	-4	-3	-2	0	3	6	6	6	5	5	3	3	2	2	2	1	0.2	6.3	
28-Feb-08	1	1	0	0	0	0	-1	-1	-1	0	2	3	4	5	5	5	4	4	2	0	-3	-4	-4	-3	0.8	4.9	
29-Feb-08	-1	-2	-2	-2	-2	-3	-4	-4	-3	-1	2	5	7	8	6	5	5	4	4	4	3	2	2	0	1.4	7.5	
Hourly Avg	-12.7	-13.1	-13.3	-13.5	-13.8	-13.9	-14.1	-14.2	-13.8	-12.4	-9.7	-7.8	-6.1	-4.8	-4.2	-3.9	-4.4	-5.7	-7.7	-9.0	-9.7	-10.3	-10.9	-11.5			
Hourly Max	3.2	2.1	1.8	1.8	1.1	0.9	0.4	-0.1	-0.5	0.4	5.0	6.7	7.5	7.6	8.1	8.4	8.7	6.3	4.7	4.8	4.8	4.4	4.5	4.3			

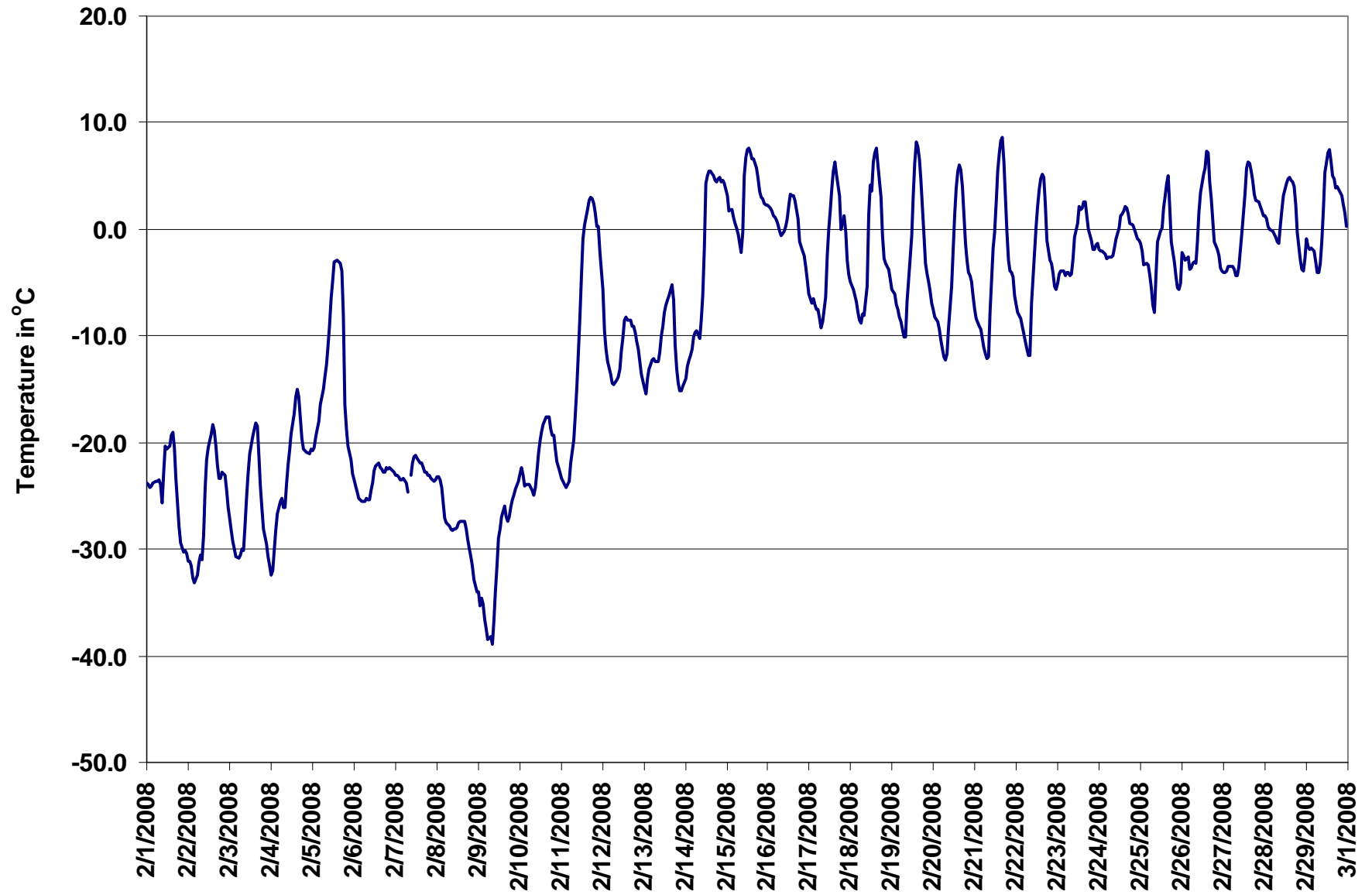


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Sclar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

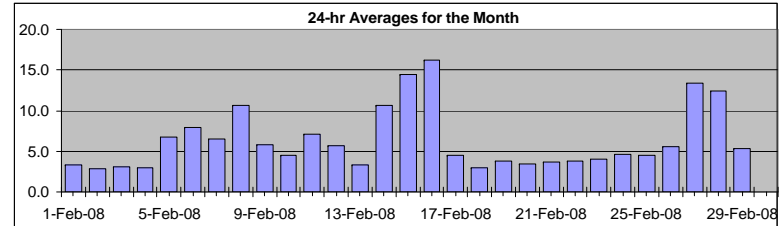
Wind Speed (WSs)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	36.1	km/hr	15-Feb	13:00 14:00
Maximum 24-hr Value:	16.2	km/hr	16-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageS
	27.2	18.5	6.8	4.3	3.1	2.2	1.8	6.3 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-Feb-08	3	3	3	2	2	3	3	3	3	2	3	4	5	5	6	7	5	4	4	2	2	2	3	3	3.4	6.8
2-Feb-08	3	4	3	2	2	3	3	2	2	2	2	3	4	4	4	4	3	3	3	3	2	2	2	2	2.8	4.2
3-Feb-08	2	2	2	2	2	3	3	3	3	3	3	4	5	4	6	5	4	4	4	2	2	2	2	2	3.1	6.1
4-Feb-08	2	2	2	4	3	3	3	3	3	2	3	4	4	4	4	5	3	2	2	2	2	2	2	3	2.9	4.8
5-Feb-08	2	2	3	3	4	4	4	3	5	4	5	4	4	4	5	5	5	17	18	15	16	14	14	6.7	17.7	
6-Feb-08	12	12	11	12	10	13	13	9	7	6	9	8	5	5	5	6	5	6	6	6	6	7	6	7.9	13.0	
7-Feb-08	7	8	8	9	7	6	5	3	P	4	3	4	6	8	8	8	7	8	8	8	6	6	7	5	6.5	8.7
8-Feb-08	6	11	12	13	15	15	15	13	14	13	14	14	13	13	13	11	8	8	7	6	6	5	5	4	10.7	15.1
9-Feb-08	5	4	5	4	4	4	3	4	3	5	6	4	4	5	5	7	8	7	7	8	10	9	10	9	5.8	9.9
10-Feb-08	8	6	4	3	6	7	6	6	4	4	4	3	5	5	5	5	4	3	4	4	3	4	3	4	4.4	7.6
11-Feb-08	5	3	3	3	3	3	3	4	3	3	3	5	4	4	7	13	18	19	19	16	11	7	7	5	7.2	19.4
12-Feb-08	8	9	6	7	9	8	7	7	5	7	6	6	6	6	5	6	5	3	4	3	3	3	3	3	5.6	9.1
13-Feb-08	4	3	3	2	3	3	3	3	3	4	4	4	4	4	6	4	5	3	3	3	2	2	2	2	3.3	5.6
14-Feb-08	3	2	2	2	3	3	3	3	3	2	3	5	21	25	25	24	18	15	14	13	23	18	17	8	10.6	25.1
15-Feb-08	4	4	6	5	3	3	5	4	4	3	10	17	26	36	32	30	24	22	14	14	16	21	23	22	14.5	36.1
16-Feb-08	24	26	24	21	22	24	22	18	18	17	19	17	17	16	15	13	11	9	6	12	12	10	7	8	16.2	26.4
17-Feb-08	4	3	3	4	2	3	2	3	3	3	4	7	7	7	9	7	6	4	4	6	7	5	3	3	4.5	9.2
18-Feb-08	3	3	2	3	2	2	2	3	3	3	3	4	5	4	3	3	2	3	3	3	3	3	3	3	2.9	5.3
19-Feb-08	3	2	3	3	4	3	4	3	3	3	5	4	5	7	6	5	5	4	3	3	4	3	3	4	3.8	6.9
20-Feb-08	4	3	3	3	3	3	3	3	2	3	4	6	4	4	4	4	4	3	3	3	3	3	4	3	3.4	6.2
21-Feb-08	4	3	3	3	3	3	3	3	3	4	3	8	6	4	4	3	3	3	4	3	3	5	3	3	3.6	7.9
22-Feb-08	5	3	3	4	3	3	3	3	2	3	5	4	5	5	6	5	5	4	3	4	4	4	3	3	3.8	5.5
23-Feb-08	3	5	4	3	3	3	4	3	3	3	3	6	7	6	5	5	4	5	3	3	3	4	5	3	4.0	6.9
24-Feb-08	3	3	3	5	5	4	3	2	3	3	4	4	4	4	6	5	5	5	6	7	6	7	6	6	4.6	7.0
25-Feb-08	5	5	4	5	5	5	5	3	3	3	3	7	8	7	7	5	3	5	4	3	3	3	4	4	4.5	7.6
26-Feb-08	6	4	4	4	3	3	5	4	3	3	5	6	5	6	6	8	8	7	8	7	7	9	8	6	5.6	8.8
27-Feb-08	5	4	5	3	4	5	3	2	3	4	5	6	7	23	31	33	28	28	27	25	19	18	19	18	13.4	33.0
28-Feb-08	17	17	15	15	16	15	14	11	9	13	17	15	15	19	20	18	16	11	5	4	5	3	3	5	12.4	19.8
29-Feb-08	6	3	4	4	4	4	5	3	3	3	4	5	7	6	9	9	10	9	8	7	6	6	3	3	5.4	10.5
1-hr Average	5.7	5.6	5.3	5.3	5.3	5.5	5.3	4.6	4.4	4.4	5.6	6.5	7.5	8.6	9.2	9.0	8.0	7.3	7.0	6.7	6.7	6.6	6.3	5.7		
Hourly Max	23.9	26.4	23.6	21.4	22.1	23.9	21.9	18.5	17.6	17.4	18.7	16.9	25.7	36.1	31.6	33.0	28.3	28.1	27.1	24.5	22.6	21.2	23.1	21.9		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

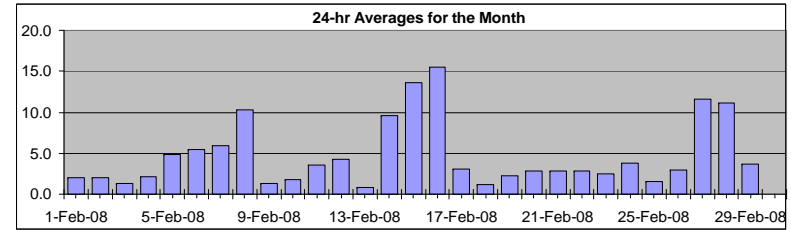
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	35.7	km/hr	15-Feb	13:00 14:00
Maximum 24-hr Value:	15.5	km/hr	16-Feb	



Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.1	18.4	6.6	3.6	2.1	1.1	0.5	8.7 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	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-Feb-08	3	2	2	2	1	2	3	2	2	1	3	4	5	5	5	7	5	4	4	1	2	2	3	3		2.0	6.7	
2-Feb-08	3	3	2	2	1	2	1	2	1	2	2	3	4	4	4	3	3	1	1	0	0	1	1	2		2.1	3.9	
3-Feb-08	1	1	2	2	2	2	2	2	1	3	2	4	5	4	6	4	3	4	3	1	2	1	1	1		1.3	5.9	
4-Feb-08	1	2	2	0	1	2	1	3	2	1	3	4	4	3	3	4	3	1	2	1	1	1	1	2		2.2	4.1	
5-Feb-08	1	1	2	2	3	2	3	2	4	3	5	4	4	4	5	4	4	4	17	17	14	16	14	13		4.8	17.4	
6-Feb-08	12	12	10	11	10	13	12	9	7	5	9	7	3	4	5	5	5	6	6	6	6	5	6	6		5.5	12.6	
7-Feb-08	7	8	7	8	7	6	5	3	P	3	2	1	6	8	8	7	7	8	7	8	6	5	7	5		5.9	8.5	
8-Feb-08	6	11	12	13	15	14	15	13	14	13	14	13	12	12	13	11	8	8	7	6	6	5	5	4		10.3	14.8	
9-Feb-08	5	4	5	4	4	4	3	4	3	4	6	3	4	5	2	5	8	7	7	7	10	9	9	9		1.3	9.7	
10-Feb-08	7	5	2	2	6	7	6	6	4	4	3	2	5	4	5	4	4	2	4	3	3	3	2	4		1.7	7.3	
11-Feb-08	2	3	3	1	1	1	1	0	1	2	2	4	3	2	7	12	17	19	19	16	11	5	7	3		3.6	19.3	
12-Feb-08	8	9	6	7	8	7	7	7	5	6	6	5	4	3	4	5	5	1	2	3	2	2	2	3		4.2	8.9	
13-Feb-08	4	3	1	1	2	2	1	3	3	3	2	4	3	2	5	4	5	2	2	1	3	1	2	1		0.9	5.0	
14-Feb-08	2	2	2	1	2	2	3	1	3	1	2	3	21	25	25	24	18	15	14	13	22	18	17	8		9.6	25.0	
15-Feb-08	3	4	6	5	3	1	3	4	3	2	10	17	25	36	31	29	24	22	13	13	16	21	23	22		13.7	35.7	
16-Feb-08	24	26	23	21	22	24	22	18	18	17	19	16	17	15	15	13	11	8	6	12	12	10	7	8		15.5	26.2	
17-Feb-08	3	2	1	4	1	3	1	0	1	1	3	7	7	6	9	7	5	3	2	6	6	5	2	3		3.1	9.1	
18-Feb-08	3	1	1	1	1	2	1	2	2	3	2	4	5	4	3	2	2	1	2	1	2	2	2	1		1.1	5.1	
19-Feb-08	1	1	1	3	4	3	4	2	1	2	5	3	5	7	5	5	5	3	2	1	0	2	2	2		2.2	6.7	
20-Feb-08	1	2	2	2	1	2	2	2	2	1	4	6	4	3	4	4	4	3	3	3	3	3	4	2		2.9	6.0	
21-Feb-08	4	1	2	2	2	1	1	2	2	3	3	8	6	3	4	3	3	2	3	3	3	5	2	2		2.8	7.8	
22-Feb-08	4	1	2	4	2	3	2	2	2	2	5	3	5	5	5	4	5	4	2	4	4	4	2	2		2.8	5.4	
23-Feb-08	3	5	4	3	2	3	3	1	2	2	3	5	6	6	4	5	3	4	2	2	2	3	5	2		2.5	6.3	
24-Feb-08	3	3	2	5	5	4	2	1	2	3	4	3	2	2	6	5	5	5	6	7	6	7	6	6		3.8	6.8	
25-Feb-08	5	5	4	5	5	4	2	2	2	2	3	6	7	7	7	5	2	4	2	3	3	2	4	4		1.5	7.1	
26-Feb-08	6	4	4	1	1	2	4	2	1	1	2	5	5	6	6	8	7	7	8	7	7	9	7	5		3.0	8.5	
27-Feb-08	4	4	4	2	2	3	2	1	3	2	3	5	6	23	30	33	28	28	27	24	19	18	19	18		11.6	32.9	
28-Feb-08	17	17	15	15	16	15	14	11	9	13	17	15	14	19	20	18	16	11	5	4	4	2	2	3		11.1	19.6	
29-Feb-08	4	1	2	3	1	3	3	1	3	1	2	4	6	5	8	9	10	8	8	7	5	6	3	2		3.7	10.3	
1-hr Vector	2.1	2.3	2.1	2.0	2.4	2.8	2.5	2.1	1.8	2.6	3.1	3.9	4.8	5.0	5.4	4.4	3.7	3.3	3.3	3.5	3.0	3.0	3.0	2.2				
Hourly Max	23.8	26.2	23.5	21.3	22.0	23.8	21.8	18.4	17.6	17.3	18.6	16.8	25.4	35.7	31.3	32.9	28.1	27.9	27.0	24.4	22.5	21.1	23.0	21.8				

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	Average
	354.3	346.0	298.0	260.9	70.2	19.1	3.1	299 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			23:00 0:00
1-Feb-08	65	44	60	73	138	160	129	146	106	47	50	43	353	7	37	44	28	19	5	347	337	302	287	285	35	NE	
2-Feb-08	297	295	288	279	352	215	306	248	0	243	249	281	255	266	328	301	13	348	332	48	287	299	327	4	302	WNW	
3-Feb-08	269	338	259	254	311	315	280	245	61	218	227	258	272	255	344	17	57	91	77	351	31	351	333	341	314	NW	
4-Feb-08	340	311	319	200	345	350	335	244	245	262	243	277	245	253	269	281	328	318	302	307	312	304	240	9	287	WNW	
5-Feb-08	291	271	38	43	57	27	64	54	67	56	65	62	65	64	52	61	70	343	339	328	324	334	327	319	358	N	
6-Feb-08	318	314	302	308	309	323	316	299	300	287	281	280	318	349	18	16	30	43	56	62	64	47	51	56	333	NNW	
7-Feb-08	49	47	45	41	38	28	33	40	P	58	92	349	58	70	66	62	55	61	56	37	38	0	340	350	43	NE	
8-Feb-08	302	329	325	319	323	317	325	321	321	329	322	327	321	316	307	303	291	275	285	309	298	284	261	300	314	NW	
9-Feb-08	267	266	291	271	280	289	308	301	268	274	262	272	337	353	44	106	65	72	81	85	98	95	93	93	46	NE	
10-Feb-08	92	84	74	240	261	269	256	218	229	261	309	312	352	16	352	5	19	19	329	317	298	267	256	219	304	NW	
11-Feb-08	230	46	202	36	206	46	213	62	101	50	53	52	61	67	209	241	261	264	266	270	271	307	293	36	269	W	
12-Feb-08	69	76	76	65	75	82	69	75	70	60	65	87	354	68	5	2	36	54	243	40	45	216	242	359	59	ENE	
13-Feb-08	61	46	349	245	340	279	297	102	78	180	203	223	248	332	231	209	215	26	6	346	221	310	263	318	267	W	
14-Feb-08	276	276	317	298	291	231	68	174	46	1	198	239	269	267	269	269	271	264	260	273	252	248	255	263	264	W	
15-Feb-08	231	194	198	204	207	216	201	197	203	250	268	262	268	259	268	265	268	265	280	274	264	264	264	262	260	W	
16-Feb-08	263	259	257	260	265	266	264	265	264	269	270	275	282	312	312	316	284	278	278	278	264	266	262	276	256	271	W
17-Feb-08	243	242	74	50	230	61	42	276	35	337	282	282	317	289	280	290	277	281	312	284	295	277	282	26	296	WNW	
18-Feb-08	334	338	142	236	234	231	249	222	232	253	311	355	354	2	357	338	340	241	250	19	48	217	10	149	308	NW	
19-Feb-08	16	273	220	230	205	237	221	4	316	270	259	347	278	277	339	20	7	22	23	311	295	286	345	304	304	WNW	
20-Feb-08	287	276	298	270	326	240	301	317	257	329	266	264	285	285	349	5	358	1	329	315	314	309	286	317	304	WNW	
21-Feb-08	224	254	292	267	272	346	300	298	263	262	339	270	274	256	345	335	353	351	11	323	329	342	281	268	298	WNW	
22-Feb-08	233	337	280	207	276	259	301	319	269	318	346	268	347	359	353	9	350	346	322	335	322	276	0	333	320	NW	
23-Feb-08	308	281	312	293	198	259	312	353	287	268	358	17	6	3	5	45	34	325	352	350	304	40	64	85	348	NNW	
24-Feb-08	8	29	332	342	341	334	350	330	323	26	69	6	17	25	27	27	41	41	57	70	67	68	79	71	32	NNE	
25-Feb-08	71	74	63	66	69	77	94	8	24	329	331	287	281	270	268	263	322	22	327	251	215	274	278	276	324	NW	
26-Feb-08	256	278	326	139	224	248	216	24	268	294	35	36	35	64	69	59	68	70	66	61	63	77	73	64	56	NE	
27-Feb-08	68	60	66	47	351	19	336	338	299	262	278	264	258	266	270	266	271	269	269	271	275	269	261	254	272	W	
28-Feb-08	255	261	260	260	259	262	261	260	261	263	268	271	274	273	273	267	269	271	255	259	59	79	57	34	267	W	
29-Feb-08	127	104	110	143	95	226	185	269	50	275	324	149	127	81	59	74	75	78	88	94	79	70	56	50	90	E	
Hourly Avg	286	304	300	286	292	292	291	292	296	290	293	291	300	297	304	302	309	306	310	309	299	296	296	310			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

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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:	99.9%			
Percentile	99	95	75	50	25	5	1
	90.5	78.7	48.8	26.6	14.4	5.7	4.6

Status Flag Characters

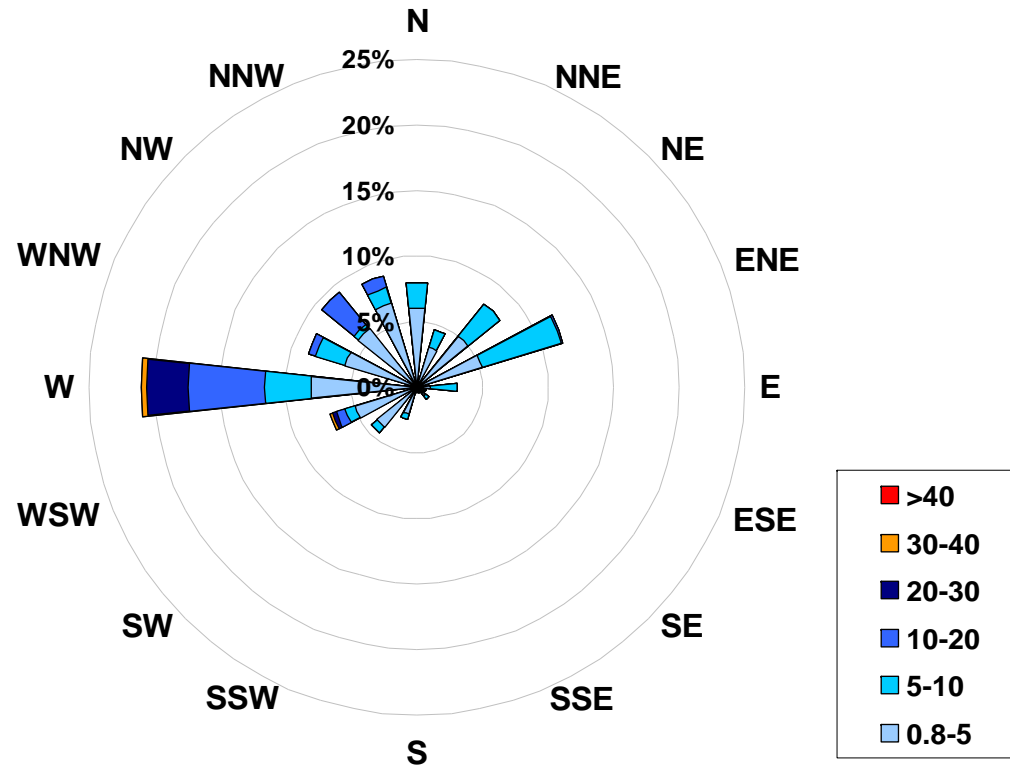
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

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	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-Feb-08	28	48	39	47	63	34	34	68	42	63	40	23	16	20	23	12	17	16	20	44	20	40	21	16	68.2	
2-Feb-08	30	45	33	26	73	74	69	49	59	40	36	34	14	19	35	39	24	85	73	94	94	82	88	37	94.3	
3-Feb-08	65	63	32	20	38	49	34	42	90	29	70	13	13	48	17	31	28	19	33	71	32	45	74	45	89.8	
4-Feb-08	49	35	29	94	73	58	89	41	68	54	21	14	18	28	52	31	26	50	48	54	70	69	71	37	93.7	
5-Feb-08	52	68	50	43	27	62	18	63	40	28	12	20	19	19	16	14	23	30	13	11	13	10	14	13	67.8	
6-Feb-08	14	14	18	17	16	15	13	16	17	20	16	25	57	42	29	22	21	13	15	18	15	16	13	14	56.6	
7-Feb-08	15	14	13	13	11	17	15	29	P	30	74	75	26	17	15	16	15	13	13	16	27	32	12	35	75.0	
8-Feb-08	22	14	14	14	13	12	13	14	13	12	14	17	21	20	19	16	16	8	16	13	11	14	17	18	21.6	
9-Feb-08	14	12	18	13	22	23	35	28	34	30	19	34	25	14	76	39	14	13	14	13	12	13	13	14	75.9	
10-Feb-08	17	23	63	68	14	11	24	12	13	14	41	44	24	27	14	23	20	45	15	30	29	27	49	26	68.1	
11-Feb-08	69	51	36	88	93	85	90	92	89	58	81	43	57	61	21	18	7	6	5	6	6	49	13	48	93.0	
12-Feb-08	14	13	16	15	17	18	18	20	27	27	24	50	57	61	40	42	23	81	76	51	81	71	41	42	80.8	
13-Feb-08	42	35	82	70	60	36	71	28	42	46	56	32	45	76	38	24	34	55	52	59	36	79	26	33	81.7	
14-Feb-08	42	43	29	43	47	71	46	85	34	71	53	55	6	5	6	6	7	6	7	10	7	7	6	10	85.0	
15-Feb-08	49	47	8	13	46	85	65	24	22	48	20	6	8	9	7	7	6	5	21	17	5	4	5	5	85.4	
16-Feb-08	6	6	5	5	5	5	5	5	5	5	6	9	9	15	14	14	17	25	14	5	6	6	13	7	25.3	
17-Feb-08	36	37	91	28	78	39	70	87	80	63	40	24	20	25	11	18	11	30	54	9	18	12	64	31	91.2	
18-Feb-08	13	81	55	78	81	45	64	47	68	41	50	34	15	25	29	31	38	68	55	64	89	73	63	69	88.9	
19-Feb-08	62	60	91	46	27	35	12	51	60	45	11	41	16	17	36	27	25	22	43	55	87	54	57	55	90.7	
20-Feb-08	86	62	58	28	60	70	49	39	39	64	19	13	41	41	23	17	18	23	13	18	19	24	23	54	86.4	
21-Feb-08	25	71	65	51	53	62	58	55	43	31	33	8	12	37	22	25	16	26	32	13	23	14	55	39	71.1	
22-Feb-08	45	79	49	14	24	14	59	42	55	29	22	41	14	13	12	26	25	20	35	25	30	22	58	70	79.2	
23-Feb-08	38	17	23	27	47	19	46	62	48	41	44	28	27	18	21	15	38	27	52	56	62	23	10	65	64.9	
24-Feb-08	24	28	49	17	19	16	38	51	38	29	28	43	61	76	19	30	18	23	11	12	10	14	14	20	75.9	
25-Feb-08	14	8	11	9	22	15	76	56	60	50	22	35	23	11	6	15	53	21	60	48	52	40	20	14	75.8	
26-Feb-08	17	16	21	83	84	42	40	79	80	62	68	25	37	23	25	15	13	14	11	16	13	15	16	25	83.5	
27-Feb-08	24	22	30	45	50	44	37	60	32	53	46	37	23	9	6	5	8	6	5	6	7	8	5	5	60.0	
28-Feb-08	5	5	5	4	4	4	5	5	7	6	5	8	14	8	8	7	7	16	14	26	56	54	42	64	64.4	
29-Feb-08	60	72	63	47	71	69	65	79	40	67	55	65	33	46	12	13	10	18	17	13	15	17	44	28	78.8	

Hourly Max	86	81	91	94	93	85	90	92	90	71	81	75	61	76	76	42	53	85	76	94	94	82	88	70
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1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	416
5	to	10	172
10	to	20	79
20	to	30	24
30	to	40	4
	>	40	0
Total Non-Zero Values			695

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

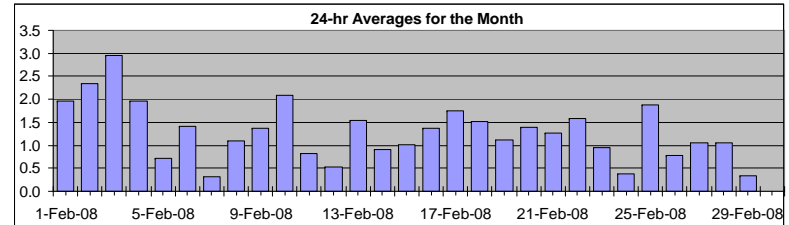
Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 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:	12.8 ppb 17-Feb 14:00 15:00
Maximum 24-hr Average:	3.0 ppb 3-Feb



AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.9	3.4	1.7	0.9	0.5	0.2	0.1	1.3 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	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	Daily Maximum	
1-Feb-08	1	1	2	3	3	2	3	2	2	2	2	2	3	2	A	2	2	2	2	2	2	1	1	1	2.0	3.0	
2-Feb-08	1	1	1	1	2	2	2	2	2	2	2	3	3	A	3	2	2	3	3	2	2	4	4	3	2.3	4.1	
3-Feb-08	2	2	3	2	2	2	2	2	2	2	2	3	3	A	5	5	4	4	4	4	3	3	4	3	3.0	4.6	
4-Feb-08	3	3	2	2	2	2	2	2	2	1	2	A	2	2	2	2	2	2	2	2	2	2	2	2	2.0	3.1	
5-Feb-08	2	1	1	1	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.7	
6-Feb-08	1	1	1	1	0	0	0	0	0	0	A	2	5	4	5	2	2	1	1	1	1	1	1	1	1.4	5.5	
7-Feb-08	0	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
8-Feb-08	0	0	1	1	0	0	1	A	1	1	1	1	1	1	1	2	1	2	1	1	1	1	2	2	1.1	2.5	
9-Feb-08	2	2	1	1	1	1	A	1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	2	1	1.4	2.1	
10-Feb-08	1	1	1	1	1	A	2	2	2	1	1	2	2	1	2	3	2	3	10	4	3	1	1	1	2.1	10.1	
11-Feb-08	1	1	1	1	A	1	1	1	1	1	1	0	0	0	1	1	1	1	3	0	2	1	1	1	0.8	2.6	
12-Feb-08	1	1	1	A	1	1	1	0	0	0	P	1	0	0	0	0	0	0	0	0	0	0	0	1	0.5	0.9	
13-Feb-08	1	2	A	1	1	1	2	2	1	1	1	1	C	C	C	A	1	1	1	2	2	2	2	2	1.5	2.3	
14-Feb-08	2	2	2	1	1	A	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0.9	2.4	
15-Feb-08	2	1	0	0	A	1	0	0	1	1	0	0	0	0	0	2	4	1	3	0	1	1	1	3	1.0	4.4	
16-Feb-08	3	5	6	A	5	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	3	1.4	5.8	
17-Feb-08	1	0	A	0	0	0	0	0	1	1	1	0	3	9	13	3	2	1	1	1	0	1	1	1	1.7	12.8	
18-Feb-08	0	A	1	1	1	1	1	1	1	1	0	1	1	1	4	3	3	2	2	1	1	1	5	3	1.5	5.4	
19-Feb-08	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	2	2	2	1	1	1	1	A	1.1	2.1
20-Feb-08	1	1	1	1	2	2	3	3	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1	A	1	1.4	2.6
21-Feb-08	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	3	6	6	2	A	1	1	1.3	6.1	
22-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	11	5	A	1	1	1	1.6	10.6	
23-Feb-08	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	A	1	0	0	0	0.9	1.8	
24-Feb-08	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.6	
25-Feb-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	11	3	A	12	2	1	4	3	2	1.9	12.0	
26-Feb-08	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0.8	2.6	
27-Feb-08	0	0	0	0	0	0	0	0	0	0	2	2	2	3	1	A	1	1	0	3	2	0	1	3	1.1	3.4	
28-Feb-08	3	4	3	5	3	1	1	2	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1.1	4.8	
29-Feb-08	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	0	0	0	0	0	0	0	0	0	0.3	0.9	

Hourly Avg	1.1	1.3	1.3	1.1	1.2	0.9	1.0	1.0	1.0	0.9	1.0	1.2	1.2	1.5	1.7	1.7	1.5	1.3	2.5	1.5	1.2	1.1	1.4	1.3
Hourly Max	3.4	5.3	5.8	4.8	4.7	2.5	3.0	2.5	2.4	2.3	2.5	5.5	4.4	8.7	12.8	10.9	4.4	4.4	12.0	5.9	3.0	4.1	5.4	3.3

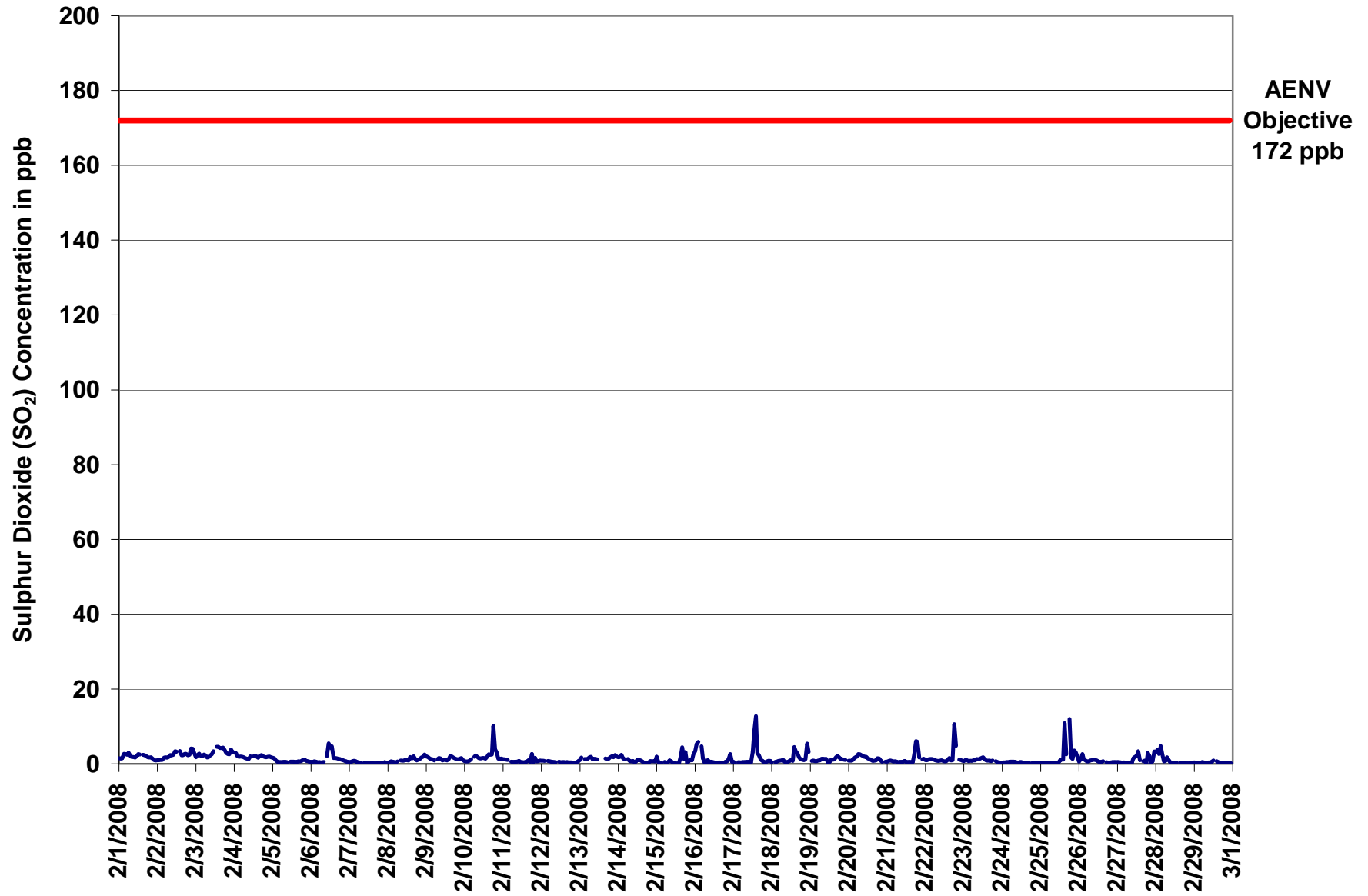


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

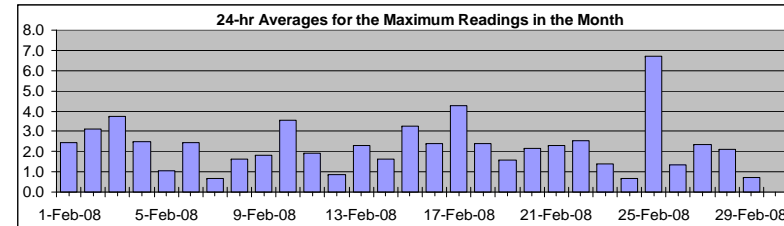
Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	47.1	ppb	25-Feb	18:00 19:00
Maximum 24-hr Value:	6.7	ppb	25-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.3	6.9	2.4	1.4	0.8	0.5	0.4	2.3 ppb	1.4 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-Feb-08	2	2	2	4	3	3	3	3	2	2	2	3	3	A	3	3	2	2	2	2	1	1	1	2.5	3.7	
2-Feb-08	1	1	1	2	2	2	2	2	3	3	3	4	5	A	4	3	3	3	4	3	3	5	5	4	3.1	5.1
3-Feb-08	2	3	3	3	3	3	3	3	2	3	3	4	A	5	5	5	5	6	4	4	3	3	6	5	3.7	6.4
4-Feb-08	4	4	3	3	3	3	2	2	2	2	3	A	3	3	2	2	3	3	3	2	2	2	2	2	2.5	3.9
5-Feb-08	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1.1	2.0
6-Feb-08	1	1	1	1	1	1	1	1	1	A	7	10	8	11	2	2	2	2	2	2	1	1	1	1	2.5	10.7
7-Feb-08	1	1	1	2	1	1	1	1	A	1	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0.7	1.5
8-Feb-08	1	1	1	1	1	1	1	A	1	1	1	1	1	2	5	2	3	3	1	1	2	2	3	3	1.7	4.7
9-Feb-08	3	2	2	2	2	1	A	2	2	2	1	1	2	1	1	3	2	2	2	2	2	2	1	1	1.8	2.6
10-Feb-08	1	1	1	1	2	A	2	3	3	2	2	2	2	2	3	3	3	4	22	6	12	2	2	2	3.5	21.7
11-Feb-08	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	1	18	1	3	2	1	1	1.9	17.9
12-Feb-08	1	1	1	A	1	1	1	1	1	1	P	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
13-Feb-08	2	2	A	2	2	2	3	3	2	2	2	1	C	C	C	A	2	2	2	3	3	3	4	3	2.3	4.4
14-Feb-08	2	3	3	2	2	A	2	2	1	1	1	1	2	1	1	1	1	1	1	1	2	2	4	2	1.6	3.7
15-Feb-08	4	3	1	1	A	1	1	1	1	2	1	0	0	0	1	5	8	7	11	0	4	4	5	13	3.3	13.3
16-Feb-08	5	8	9	A	7	3	1	0	2	1	1	1	1	0	0	1	1	1	1	1	2	3	7	1	2.4	8.6
17-Feb-08	1	1	A	1	1	1	1	1	1	1	1	1	8	24	24	16	9	2	2	1	1	1	1	1	4.3	24.1
18-Feb-08	1	A	1	1	1	1	2	3	1	1	1	1	1	1	9	5	4	3	2	1	1	2	7	6	2.4	8.7
19-Feb-08	A	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	3	3	2	2	2	2	1	A	1.6	3.0
20-Feb-08	1	7	1	2	2	3	3	3	3	3	2	2	2	2	1	1	1	1	3	2	1	1	A	1	2.2	7.3
21-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	8	8	4	A	2	2	2.3	12.9
22-Feb-08	2	1	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	4	14	12	A	1	2	1	2.6	14.2
23-Feb-08	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1.4	2.2
24-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	A	1	1	0	1	0	0.7	1.0
25-Feb-08	1	1	1	1	1	1	0	0	1	0	0	1	1	1	2	39	7	A	47	3	2	17	20	8	6.7	47.1
26-Feb-08	1	4	4	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.3	3.9
27-Feb-08	1	1	1	1	1	1	1	1	1	1	3	3	9	5	1	A	1	2	0	7	6	1	1	8	2.4	9.1
28-Feb-08	5	5	4	16	4	2	1	3	2	1	1	0	1	1	A	1	1	1	0	0	0	0	0	1	2.1	15.7
29-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	0	1	0	0	1	0.7	1.6
Hourly Avg	1.7	2.1	1.8	1.9	1.8	1.4	1.5	1.5	1.5	1.3	1.6	1.8	2.2	2.7	2.9	3.8	2.4	2.4	5.5	2.5	2.3	2.3	3.0	2.6		
Hourly Max	5.5	8.0	8.6	15.7	7.3	3.1	3.5	3.3	3.2	2.8	6.9	9.8	9.1	23.8	24.1	39.2	8.7	12.9	47.1	11.6	12.5	16.9	20.3	13.3		

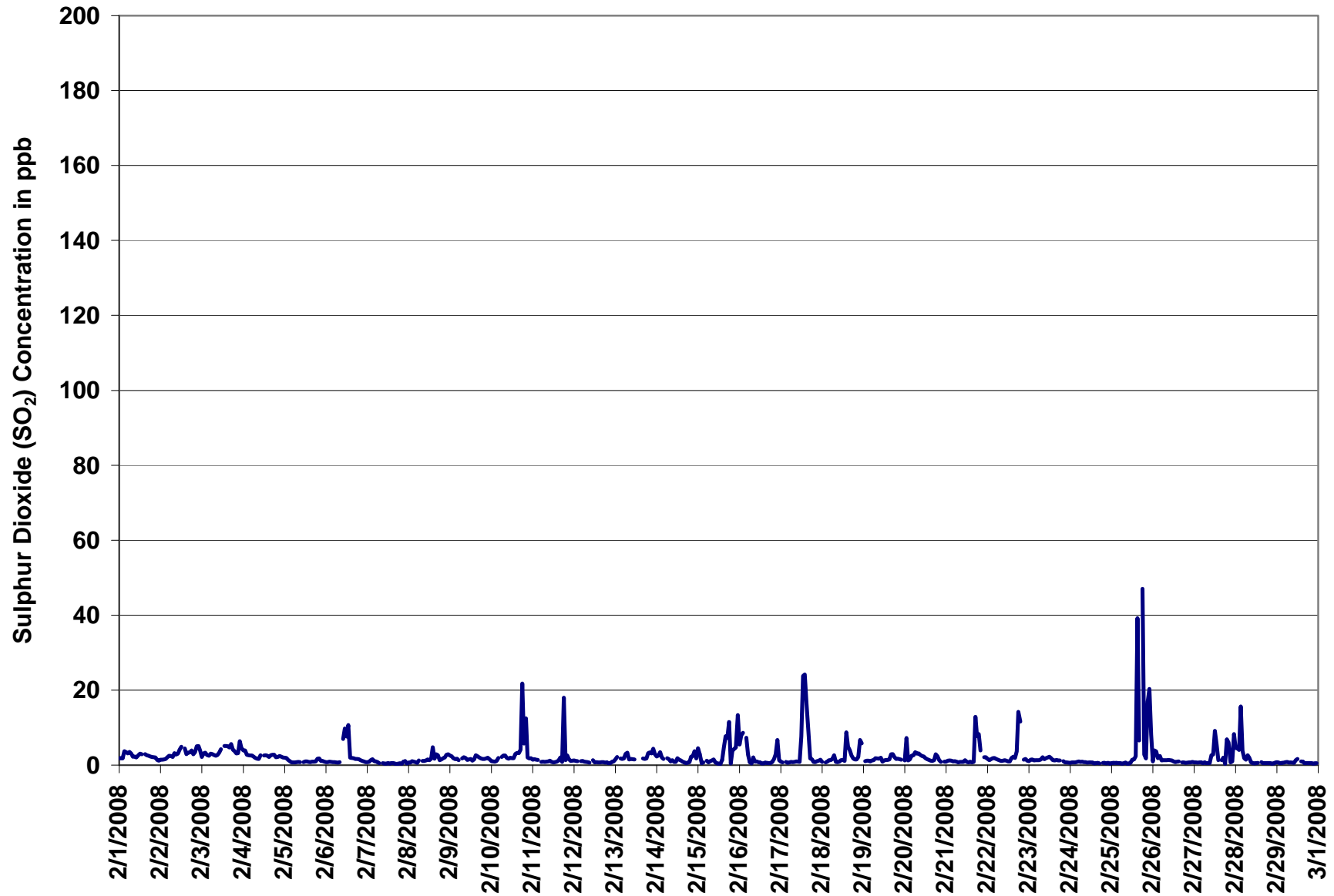
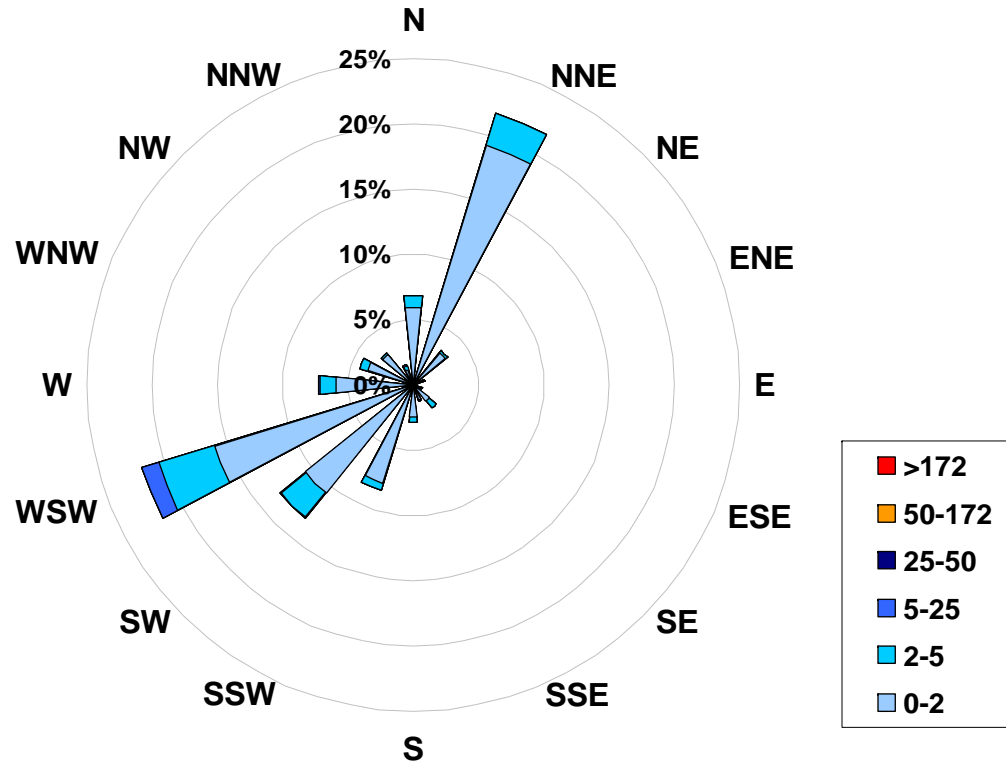


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		545
2	to 5		104
5	to 25		12
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			661

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

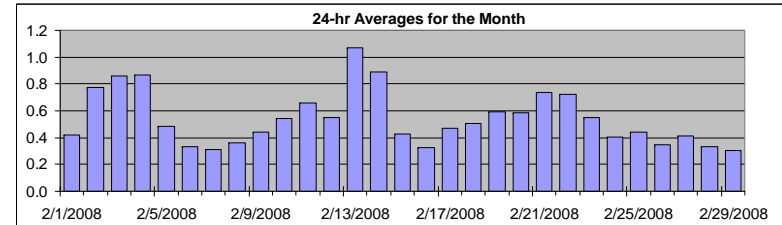
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Summary				
Maximum 1-hr Average:	3.9	ppb	14-Feb	6:00 7:00
Maximum 24-hr Value:	1.1	ppb	13-Feb	



AIC Time:	31 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	1.0	0.6	0.5	0.4	0.3	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																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	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-Feb-08			0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0.4	0.6
2-Feb-08			0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
3-Feb-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	1	0.9	1.0
4-Feb-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	1	0.9	1.3
5-Feb-08			1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5	1.0
6-Feb-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	0.3	0.5
7-Feb-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	0.3	0.4
8-Feb-08			0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
9-Feb-08			1	0	1	0	0	0	A	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.5
10-Feb-08			0	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	2	1	1	1	0.5	1.8
11-Feb-08			1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	1	1	1	1	1	0.7	1.1
12-Feb-08			1	1	1	A	0	1	0	0	0	0	P	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.5	0.8
13-Feb-08			1	1	A	1	1	1	1	1	1	1	0	C	C	A	1	1	1	1	1	1	4	4	2	1	1.1	3.6	
14-Feb-08			1	1	2	1	1	A	4	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.9	3.9
15-Feb-08			1	0	0	0	A	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.6
16-Feb-08			0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.5	
17-Feb-08			0	0	A	0	1	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0.5	0.7	
18-Feb-08			1	A	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.5	0.7
19-Feb-08			A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	0	0	A	0.6	0.8	
20-Feb-08			0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0.6	0.8	
21-Feb-08			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0.7	1.1
22-Feb-08			0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0.7	1.1
23-Feb-08			1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0.6	0.7
24-Feb-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	0.4	0.5
25-Feb-08			1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	1	0	0	0.4	0.7
26-Feb-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	0.3	0.5
27-Feb-08			0	0	0	0	0	0	0	0	0	0	0	1	0	1	A	0	0	0	0	0	0	0	0	0	0	0.4	0.6
28-Feb-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	0.3	0.4
29-Feb-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	0.3	0.4
Hourly Avg			0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5		
Hourly Max			1.1	1.2	1.8	1.3	1.2	0.9	3.9	1.1	1.1	1.1	0.9	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.2	1.3	1.2	3.6	3.5	2.2	1.2		

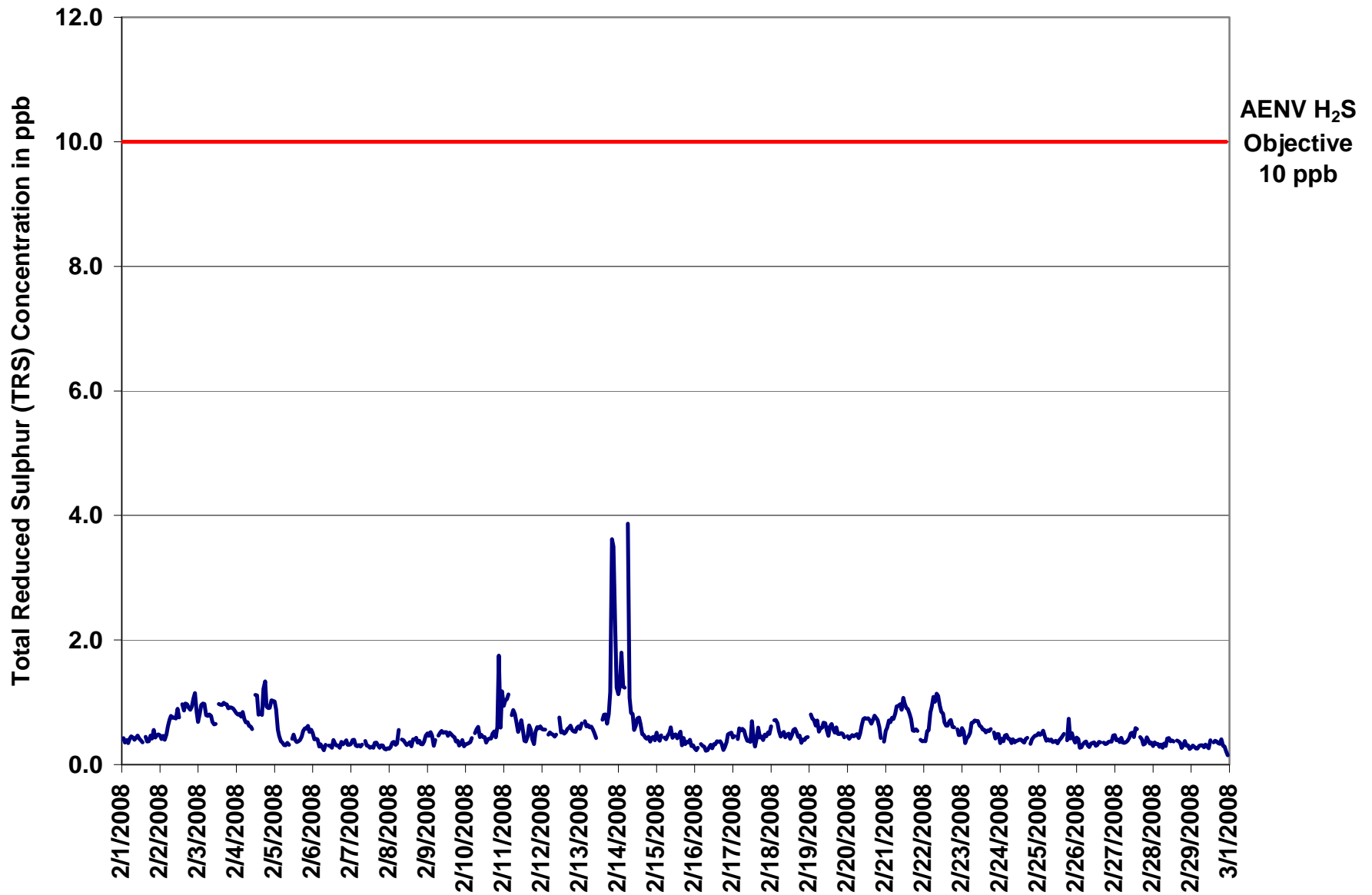


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

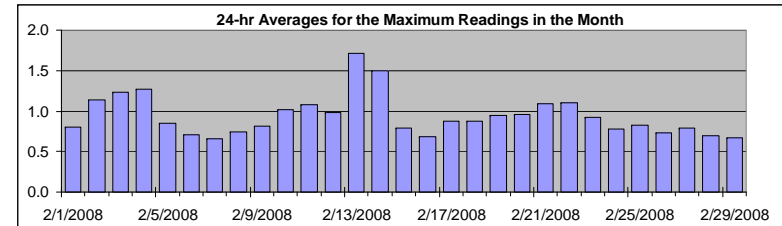
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	6.2	ppb	13-Feb	20:00 21:00
Maximum 24-hr Value:	1.7	ppb	13-Feb	



AIC Time:	31 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.4	1.0	0.8	0.7	0.6	0.6	0.9 ppb	0.8 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-Feb-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	1.1
2-Feb-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	1.1	1.5
3-Feb-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	1.2	1.4
4-Feb-08	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1	2	1	2	2	1	1	1	1	1	1.3	2.1
5-Feb-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	1.4
6-Feb-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	0.8
7-Feb-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
8-Feb-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
9-Feb-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	0.8	1.0
10-Feb-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	2	1.0	4.0	
11-Feb-08	1	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
12-Feb-08	1	1	1	A	1	1	1	1	1	1	P	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
13-Feb-08	1	1	A	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	2	6	5	5	2	1.7	6.2	
14-Feb-08	1	2	3	2	2	A	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	5.7
15-Feb-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
16-Feb-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	0.8
17-Feb-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	0.9	1.2
18-Feb-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	0.9	1.1
19-Feb-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	1.0	1.2
20-Feb-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	1.0	1.2
21-Feb-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	1.1	1.4
22-Feb-08	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.1	1.5
23-Feb-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
24-Feb-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	0.8	1.0
25-Feb-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	0.8	1.3
26-Feb-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	1.1
27-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	0.9
28-Feb-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	0.7	0.9
29-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0.7	0.9
Hourly Avg	0.9	0.9	1.0	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.0	0.9		
Hourly Max	1.5	2.2	3.2	1.8	2.1	1.4	5.7	2.5	1.5	1.4	1.3	1.8	1.5	1.5	1.4	1.5	1.5	1.7	2.1	1.6	6.2	5.4	4.6	1.9		

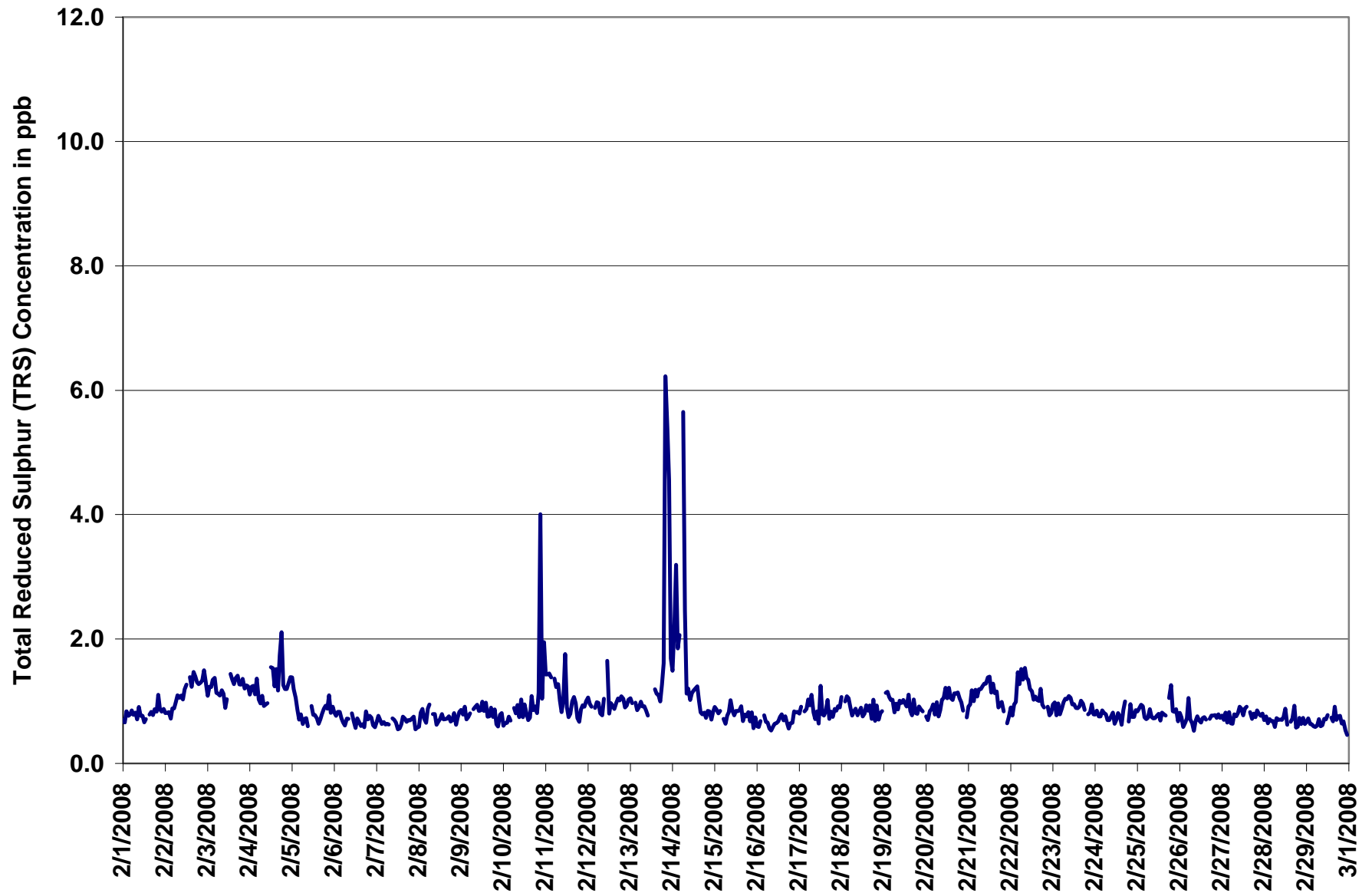
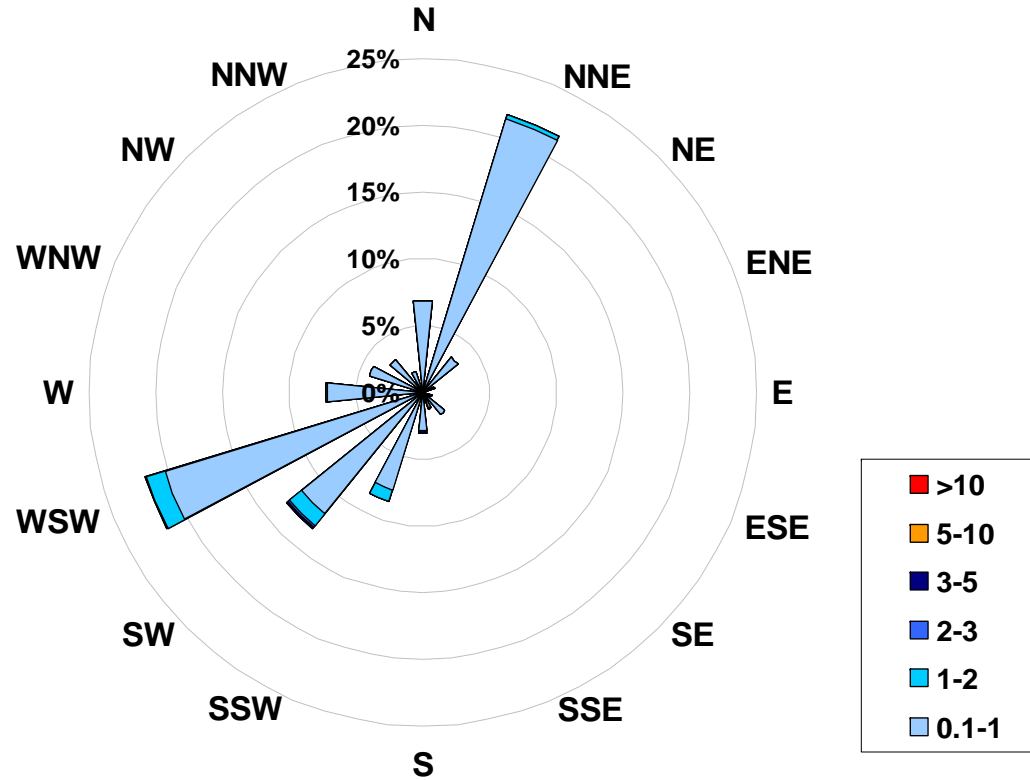


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	631
1	to	2	27
2	to	3	1
3	to	5	3
5	to	10	0
	>	10	0
Total Non-Zero Values			662

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

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

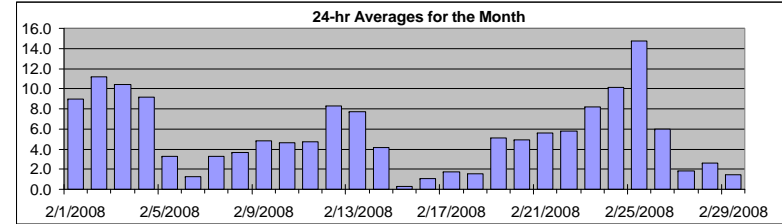
Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 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:	149.2	µg/m ³	25-Feb	0:00 1:00
Maximum 24-hr Value:	14.7	µg/m ³	25-Feb	

AIC Time:	0 hrs	Operational Time:	685 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	98.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	38.7	13.3	6.9	4.0	1.3	0.0	0.0	5.4 4 µg/m ³	4.1 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	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		
1-Feb-08	6	6	12	9	4	5	5	5	5	5	6	6	5	3	5	5	6	6	8	12	72	D	0	8			8.9	72.4
2-Feb-08	12	4	6	6	7	9	7	8	8	13	12	9	8	9	9	11	11	13	17	18	16	18	28	7			11.1	28.0
3-Feb-08	11	12	9	21	41	0	6	7	9	9	8	12	5	7	8	8	6	27	3	9	20	1	4	5			10.4	41.5
4-Feb-08	9	6	6	7	9	8	6	5	9	16	9	9	10	8	7	8	10	11	12	11	11	10	11	10			9.2	16.0
5-Feb-08	9	9	5	2	0	0	1	0	0	0	0	0	30	D	0	0	0	1	0	0	1	2	9	8			3.3	29.8
6-Feb-08	2	3	2	2	2	2	3	2	1	1	0	1	0	0	1	1	1	0	1	5	1	0	0	0			1.3	4.8
7-Feb-08	4	16	5	2	5	1	1	4	3	5	1	4	3	1	2	0	0	0	2	8	4	2	2	2			3.3	16.3
8-Feb-08	2	2	2	2	2	2	3	4	3	3	4	3	4	4	4	4	6	5	4	4	4	6	5	6			3.7	6.4
9-Feb-08	8	7	10	6	6	6	6	6	9	11	5	7	6	5	5	4	4	3	2	1	0	0	1	0			4.9	10.9
10-Feb-08	1	1	3	5	5	7	6	9	4	4	4	5	4	4	2	5	4	5	7	5	4	5	5	5			4.6	9.2
11-Feb-08	6	5	6	6	9	6	9	8	8	6	13	7	1	0	0	D	0	1	6	0	6	0	2	3			4.7	12.9
12-Feb-08	7	4	3	4	1	0	3	1	4	5	P	P	8	6	3	7	11	19	36	0	2	11	45	2			8.3	44.8
13-Feb-08	3	8	10	9	9	8	5	5	8	7	7	5	4	5	23	8	7	7	9	8	6	7	8	8			7.7	23.1
14-Feb-08	7	6	7	7	8	7	8	2	7	10	6	7	7	5	4	2	2	0	0	0	0	0	0	0			4.2	9.9
15-Feb-08	0	0	0	0	0	0	0	0	0	1	3	0	D	0	0	0	0	0	1	1	0	0	0	0			0.3	2.9
16-Feb-08	0	0	0	1	0	0	1	1	1	7	1	2	0	D	0	0	0	2	0	0	2	4	1	1			1.1	7.4
17-Feb-08	2	0	2	0	0	0	0	3	2	1	2	3	3	4	3	2	2	1	2	1	3	2	2	2			1.8	3.7
18-Feb-08	1	1	1	0	0	0	0	0	0	2	2	3	4	2	2	2	2	2	3	3	2	1	3			1.6	3.8	
19-Feb-08	4	3	3	3	5	5	6	3	4	4	6	10	9	5	7	9	5	9	3	4	4	2	4	7			5.1	10.4
20-Feb-08	2	1	1	2	1	4	5	7	10	10	3	10	8	8	6	3	4	5	6	7	4	4	3	5			4.9	9.9
21-Feb-08	4	5	6	6	6	3	6	12	10	6	6	5	7	8	7	7	6	4	5	3	2	1	5	4			5.6	11.7
22-Feb-08	4	1	5	6	5	7	7	5	9	16	2	5	10	4	6	7	5	5	4	11	5	3	3	3			5.8	16.0
23-Feb-08	5	7	5	3	3	5	7	5	7	7	8	9	7	3	5	7	13	15	9	2	21	18	27	0			8.2	27.5
24-Feb-08	2	2	9	11	4	3	2	2	8	7	4	3	5	3	1	1	1	23	1	4	10	41	59	38			10.2	58.8
25-Feb-08	149	17	20	45	7	D	D	0	2	2	D	8	3	6	7	5	4	5	7	6	6	5	1	3			14.7	149.2
26-Feb-08	3	2	3	2	4	5	5	5	10	7	2	4	2	2	4	13	2	6	5	15	13	11	0	18			6.0	18.5
27-Feb-08	13	2	0	0	0	1	1	2	4	4	2	4	3	3	2	D	0	0	0	0	0	0	0	0			1.8	13.2
28-Feb-08	0	0	0	0	1	0	0	0	23	3	6	2	2	3	1	1	2	0	1	2	8	2	2	3			2.6	23.3
29-Feb-08	0	0	2	0	1	0	1	0	21	7	0	0	1	0	1	1	0	0	0	0	0	0	0	1			1.5	20.8
Hourly Avg	9.5	4.5	4.9	5.9	5.1	3.3	4.0	3.8	6.5	6.2	4.5	5.1	5.7	4.0	4.3	4.5	3.9	6.1	5.3	4.9	7.9	5.6	7.9	5.2				
Hourly Max	149.2	17.3	19.8	45.4	41.5	8.6	9.1	11.7	23.3	16.0	12.9	11.5	29.8	9.2	23.1	13.3	12.8	27.3	36.1	18.4	72.4	41.0	58.8	38.3				

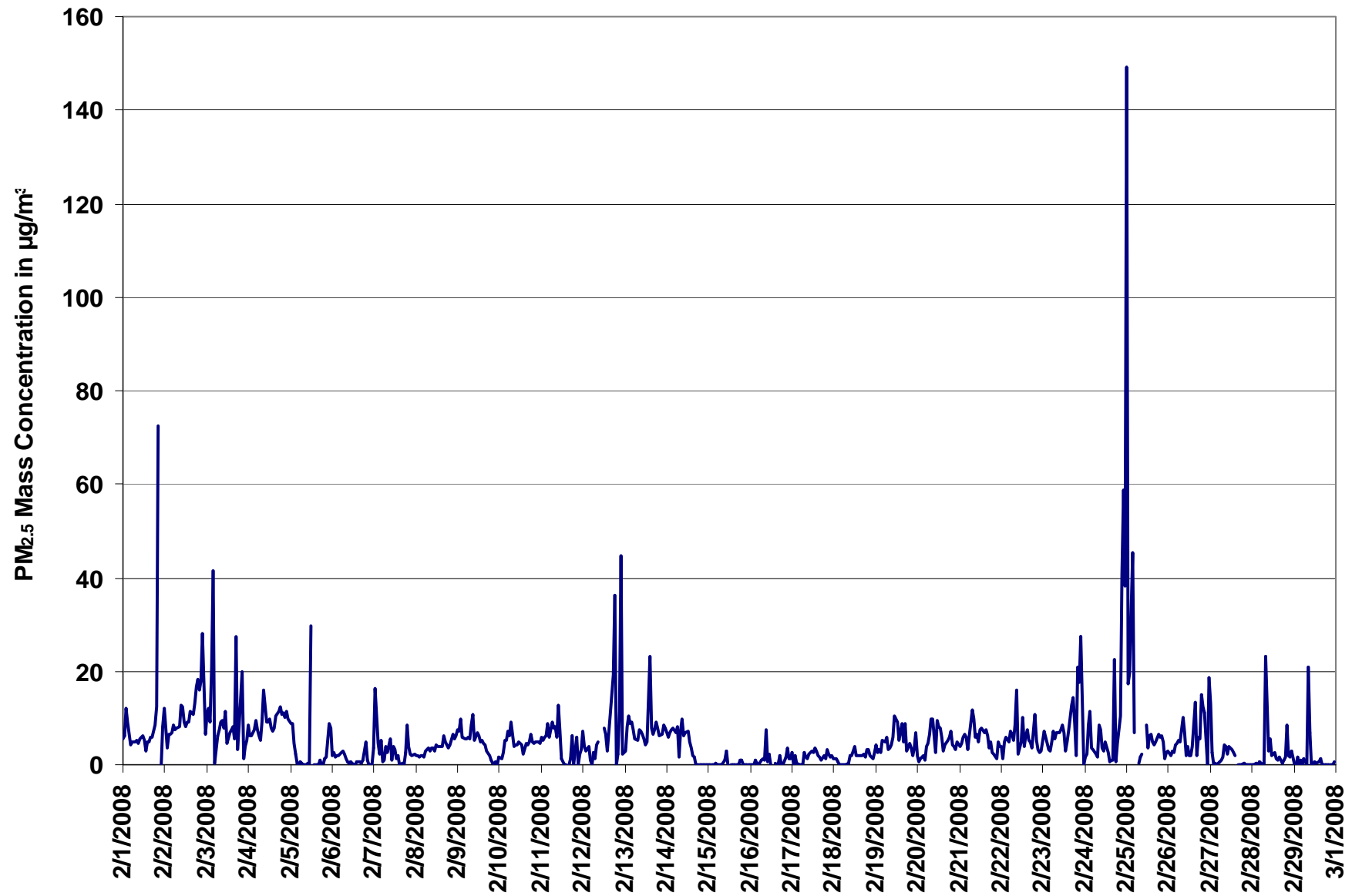


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

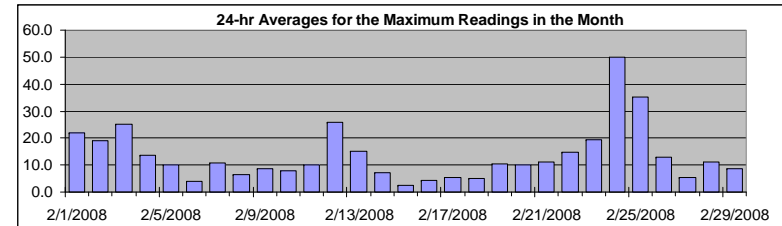
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	355.0	µg/m ³	24-Feb	22:00 23:00
Maximum 24-hr Value:	49.9	µg/m ³	24-Feb	



AIC Time:	0 hrs	Operational Time:	694 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	123.6	38.3	12.2	8.1	4.6	1.4	0.6	13.5	8 µg/m ³	10.8 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-Feb-08	9	11	35	19	7	8	7	7	7	7	9	10	11	5	9	7	8	8	26	53	220	0	3	37	21.8	220.5
2-Feb-08	40	8	10	12	9	11	10	10	11	18	17	16	10	13	14	14	14	15	41	38	28	40	51	9	19.2	50.9
3-Feb-08	40	42	19	59	63	5	10	13	12	12	10	27	21	11	10	12	8	96	8	39	61	6	8	9	25.0	96.3
4-Feb-08	16	9	15	21	25	10	8	8	15	21	14	14	12	10	9	10	13	16	15	13	15	12	13	12	13.7	24.9
5-Feb-08	11	12	10	5	2	2	3	1	1	2	2	7	82	8	2	0	3	4	4	8	3	6	49	17	10.2	81.6
6-Feb-08	4	4	4	4	4	4	6	5	4	2	2	3	1	4	3	2	3	3	5	14	7	2	2	2	3.9	14.2
7-Feb-08	11	27	23	8	9	3	4	8	11	14	3	14	14	17	16	3	2	2	11	27	14	9	8	6	10.8	27.3
8-Feb-08	4	5	5	5	4	4	4	5	6	5	5	6	6	7	7	7	7	13	8	6	6	7	9	9	6.4	13.0
9-Feb-08	12	10	21	9	9	8	8	8	17	20	9	12	10	7	8	7	7	6	4	2	3	2	3	1	8.5	20.7
10-Feb-08	4	5	8	14	8	10	9	12	11	6	7	8	7	9	7	6	6	7	10	8	7	8	7	8	8.0	13.9
11-Feb-08	7	8	8	9	14	8	12	11	10	8	38	32	3	1	3	9	6	6	9	7	17	7	4	5	10.0	38.1
12-Feb-08	15	7	5	6	4	1	6	4	8	8	P	P	12	11	6	11	22	101	91	9	12	55	163	11	25.8	162.6
13-Feb-08	5	17	15	15	14	10	7	7	9	9	10	7	6	8	121	10	9	11	12	13	12	12	13	10	15.0	121.5
14-Feb-08	8	9	9	10	10	11	12	7	11	13	11	14	14	6	6	4	5	2	1	4	3	1	3	2	7.3	14.3
15-Feb-08	2	1	1	1	3	3	2	1	3	9	11	1	1	3	2	2	0	2	6	6	2	1	1	1	2.7	11.3
16-Feb-08	0	1	1	4	2	2	2	2	3	14	9	5	3	3	5	7	5	5	5	1	5	8	6	4	4.3	14.4
17-Feb-08	6	3	4	3	2	3	5	10	6	4	6	5	9	8	7	7	4	4	5	4	11	5	3	5	5.3	11.2
18-Feb-08	4	4	4	4	2	1	3	3	6	6	4	5	7	9	12	8	4	4	4	6	5	4	3	4	4.9	12.3
19-Feb-08	7	6	7	8	10	10	9	6	6	8	10	18	15	11	13	15	12	21	13	9	8	7	8	13	10.4	21.2
20-Feb-08	7	10	7	7	9	12	14	14	14	21	10	12	12	12	9	5	7	7	8	11	7	9	8	12	10.1	21.1
21-Feb-08	10	8	10	12	13	8	17	16	16	16	12	10	11	12	11	11	12	5	8	8	8	12	9	9	11.0	16.5
22-Feb-08	11	10	12	14	13	10	12	13	19	32	13	8	18	10	13	15	9	7	8	41	13	11	17	20	14.6	41.0
23-Feb-08	19	17	14	12	8	7	10	8	11	9	10	15	12	8	9	14	34	38	15	9	40	52	80	12	19.3	80.4
24-Feb-08	10	14	23	20	12	7	7	6	27	25	12	7	9	6	4	3	3	68	10	19	35	311	355	203	49.9	355.0
25-Feb-08	266	120	67	152	21	9	0	24	23	10	8	28	8	9	16	7	7	9	14	9	11	13	6	7	35.2	265.7
26-Feb-08	7	6	5	4	7	6	8	8	23	17	5	10	5	6	16	33	8	10	11	31	24	22	4	31	12.8	33.4
27-Feb-08	33	10	1	2	2	3	3	5	9	10	7	6	7	6	5	1	4	3	2	2	3	2	1	1	5.4	33.4
28-Feb-08	1	1	1	2	4	2	1	6	91	19	20	11	12	12	6	4	5	6	4	5	37	5	6	6	11.2	90.6
29-Feb-08	4	10	7	2	4	3	4	33	61	32	4	2	4	9	9	4	3	2	2	0	2	1	4	4	8.8	61.0
Hourly Avg	19.8	13.6	12.1	15.2	10.2	6.2	7.0	9.0	15.5	13.0	10.0	11.1	11.8	8.3	12.4	8.3	8.1	16.3	12.2	13.9	21.5	21.8	29.1	16.2		
Hourly Max	265.7	119.5	67.2	152.5	63.2	12.2	16.5	33.0	90.6	32.3	38.1	32.0	81.6	17.2	121.5	33.4	34.4	100.6	90.6	52.9	220.5	311.3	355.0	203.4		

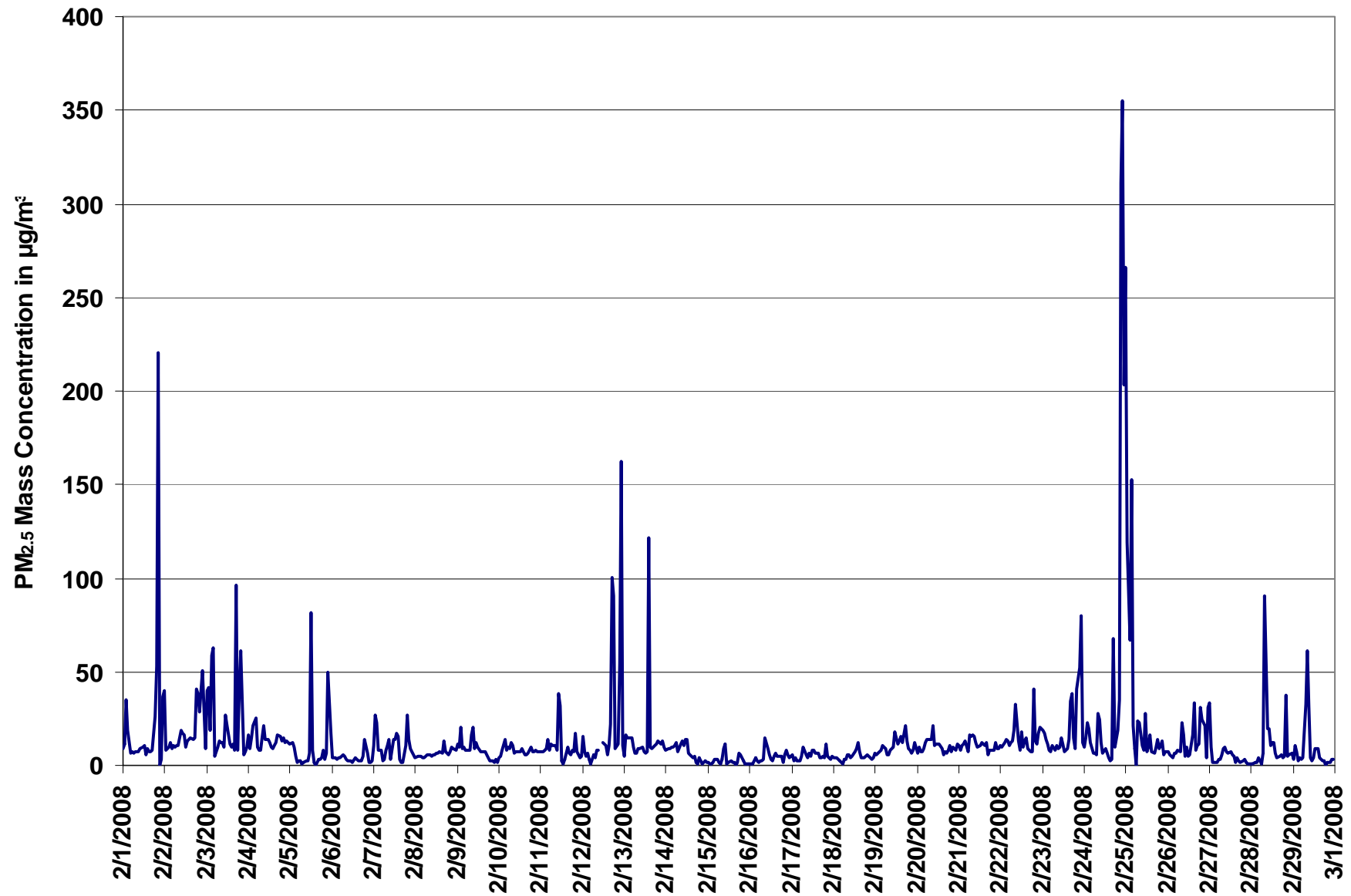
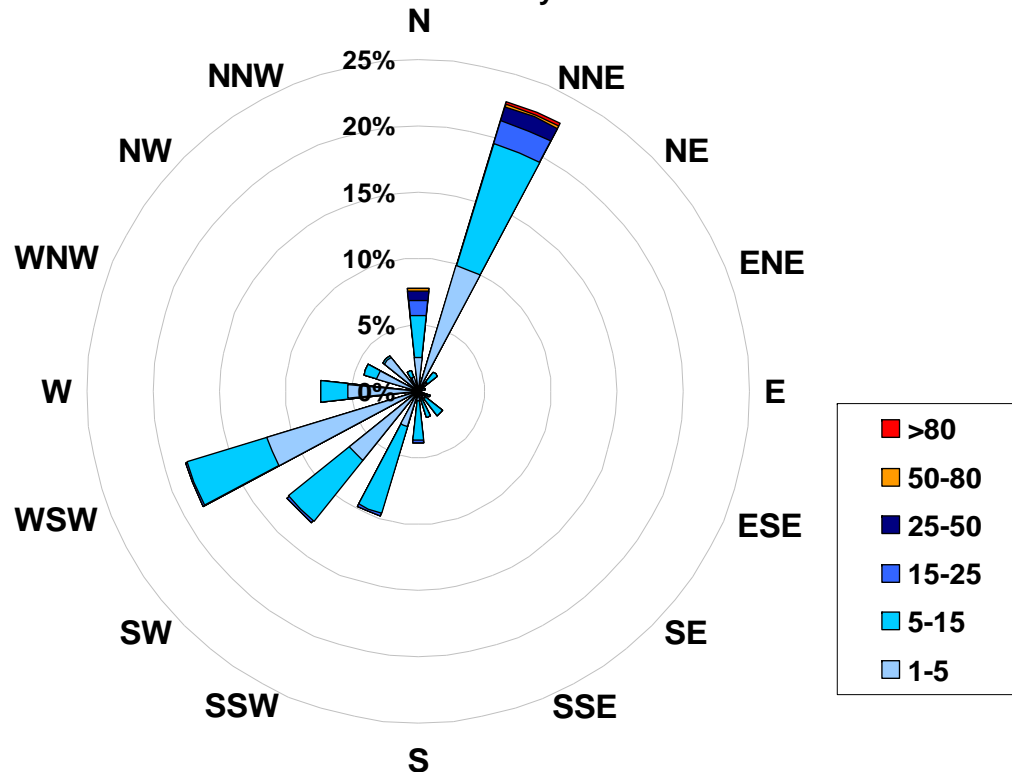


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 February 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	415
5	to	15	237
15	to	25	20
25	to	50	10
50	to	80	2
	>	80	1
Total Non-Zero Values			685

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

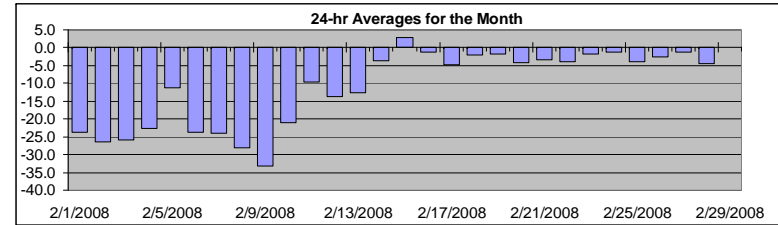
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	7.4 °C	19-Feb	15:00 16:00
Maximum 24-hr Value:	2.9 °C	15-Feb	



AIC Time:	0 hrs	Operational Time:	695 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.3	3.0	-1.7	-6.8	-21.9	-29.3	-38.8	-10.8 °C	-6.8 °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	23:00 0:00		
1-Feb-08	-26	-26	-26	-25	-25	-25	-25	-25	-25	-25	-23	-20	-18	-19	-18	-20	-22	-24	-25	-24	-25	-26	-27	-28	-23.8	-17.6
2-Feb-08	-29	-32	-31	-32	-32	-32	-30	-31	-31	-30	-28	-24	-23	-20	-19	-19	-20	-23	-24	-25	-24	-23	-25	-26	-26.4	-18.8
3-Feb-08	-27	-27	-28	-29	-29	-29	-30	-30	-28	-26	-24	-21	-21	-22	-22	-22	-23	-25	-26	-26	-28	-28	-29	-25.9	-21.3	
4-Feb-08	-30	-28	-28	-29	-29	-26	-24	-25	-26	-25	-21	-21	-20	-19	-17	-17	-19	-21	-22	-21	-21	-19	-19	-22.8	-17.0	
5-Feb-08	-17	-17	-14	-13	-13	-13	-11	-10	-10	-9	-7	-7	-6	-5	-4	-5	-6	-7	-10	-12	-16	-18	-20	-20	-11.2	-4.5
6-Feb-08	-21	-22	-23	-23	-24	-25	-25	-25	-25	-25	-26	-25	-24	-24	-23	-23	-23	-23	-23	-23	-23	-24	-24	-24	-23.8	-21.2
7-Feb-08	-24	-24	-24	-24	-24	-24	-24	-24	-25	-25	-24	-23	-23	-23	-23	-23	-23	-24	-25	-25	-25	-25	-24	-24.1	-22.7	
8-Feb-08	-24	-24	-24	-24	-25	-27	-28	-28	-28	-29	-28	-28	-27	-27	-27	-27	-28	-29	-31	-31	-32	-32	-34	-36	-28.1	-23.7
9-Feb-08	-38	-39	-39	-40	-40	-41	-41	-40	-39	-38	-36	-34	-32	-31	-30	-29	-28	-28	-27	-27	-25	-25	-24	-25	-33.3	-24.3
10-Feb-08	-25	-25	-24	-24	-23	-21	-21	-21	-22	-23	-23	-21	-19	-19	-18	-19	-19	-19	-19	-19	-18	-20	-20	-21	-21.0	-18.0
11-Feb-08	-22	-22	-20	-20	-19	-18	-18	-17	-14	-11	-8	-2	-1	0	1	-1	-1	-2	-2	-1	-1	-6	-11	-12	-9.5	1.3
12-Feb-08	-14	-14	-14	-15	-15	-16	-17	-17	-17	-16	P	-15	-13	-12	-11	-11	-11	-11	-11	-11	-13	-13	-13	-14	-13.6	-10.7
13-Feb-08	-14	-14	-13	-13	-13	-13	-13	-13	-14	-14	-13	-12	-12	-12	-10	-9	-9	-11	-11	-12	-14	-14	-13	-13	-12.6	-9.1
14-Feb-08	-12	-12	-11	-10	-9	-8	-7	-6	-7	-7	-5	-5	-4	-2	0	1	2	2	1	1	3	2	3	4	-3.6	3.7
15-Feb-08	3	3	2	1	2	2	2	2	1	1	5	6	6	6	5	5	5	5	4	3	2	1	0	0	2.9	6.0
16-Feb-08	0	-1	-1	0	0	0	-1	-1	-3	-2	-1	0	3	2	2	2	2	1	0	-2	-5	-7	-7	-9	-1.2	2.5
17-Feb-08	-9	-10	-8	-8	-8	-9	-10	-10	-9	-8	-5	-4	-2	0	1	2	0	-1	-2	-3	-3	-3	-4	-4	-4.7	1.8
18-Feb-08	-4	-4	-4	-5	-6	-5	-6	-6	-6	-5	-3	-1	0	2	3	4	5	3	-1	0	-2	-3	-2	-2	-2.0	5.3
19-Feb-08	-2	-2	-3	-4	-4	-5	-5	-6	-6	-5	-3	-1	0	2	5	7	6	4	0	-2	-4	-5	-4	-4	-1.7	7.4
20-Feb-08	-5	-6	-7	-6	-8	-8	-9	-10	-9	-8	-6	-4	-1	0	2	2	2	1	0	-2	-3	-3	-5	-6	-4.2	2.4
21-Feb-08	-6	-6	-7	-7	-8	-9	-9	-9	-8	-7	-4	-2	0	4	5	5	5	2	-1	-3	-4	-5	-5	-4	-3.5	5.2
22-Feb-08	-6	-7	-7	-7	-7	-7	-8	-9	-10	-9	-5	-3	0	2	6	5	2	1	-1	-5	-5	-6	-8	-8	-4.0	5.8
23-Feb-08	-7	-5	-4	-5	-5	-5	-5	-5	-5	-4	-1	-1	2	2	3	3	2	1	0	0	-1	-1	-1	-1	-1.8	3.0
24-Feb-08	-1	-1	-2	-2	-2	-2	-2	-3	-3	-2	-1	0	1	3	3	2	2	1	-1	-3	-4	-5	-5	-5	-1.3	3.3
25-Feb-08	-6	-6	-7	-6	-6	-7	-7	-8	-8	-7	-4	-1	0	2	1	0	0	-2	-3	-4	-5	-4	-3	-5	-3.9	2.3
26-Feb-08	-5	-3	-2	-3	-3	-3	-3	-2	-2	-2	-1	-1	1	1	3	2	-1	-3	-4	-5	-6	-6	-6	-6	-2.6	2.8
27-Feb-08	-6	-5	-5	-5	-5	-5	-5	-4	-4	-3	-1	-1	2	3	4	4	3	2	1	1	1	0	0	-1	-1.4	3.8
28-Feb-08	-3	-3	-3	-4	-5	-5	-6	-6	-7	-4	-4	-4	-3	-1	0	-1	-2	-3	-5	-6	-7	-9	-8	-6	-4.4	0.3
29-Feb-08	-5	-5	-4	-4	-4	-4	-4	-5	-5	-3	-1	3	3	5	6	5	4	3	3	2	3	3	3	1	0.0	5.6
Hourly Avg	-13.3	-13.3	-13.1	-13.3	-13.5	-13.5	-13.5	-13.7	-13.6	-12.8	-10.9	-9.4	-8.0	-6.9	-6.0	-6.1	-6.6	-7.8	-9.1	-9.8	-10.5	-11.1	-11.5	-11.9		
Hourly Max	2.9	2.6	2.2	1.4	1.9	2.1	2.2	2.0	1.3	1.3	4.7	6.0	5.9	5.5	5.8	7.4	5.8	5.0	3.6	2.9	2.8	3.4	3.3	3.7		

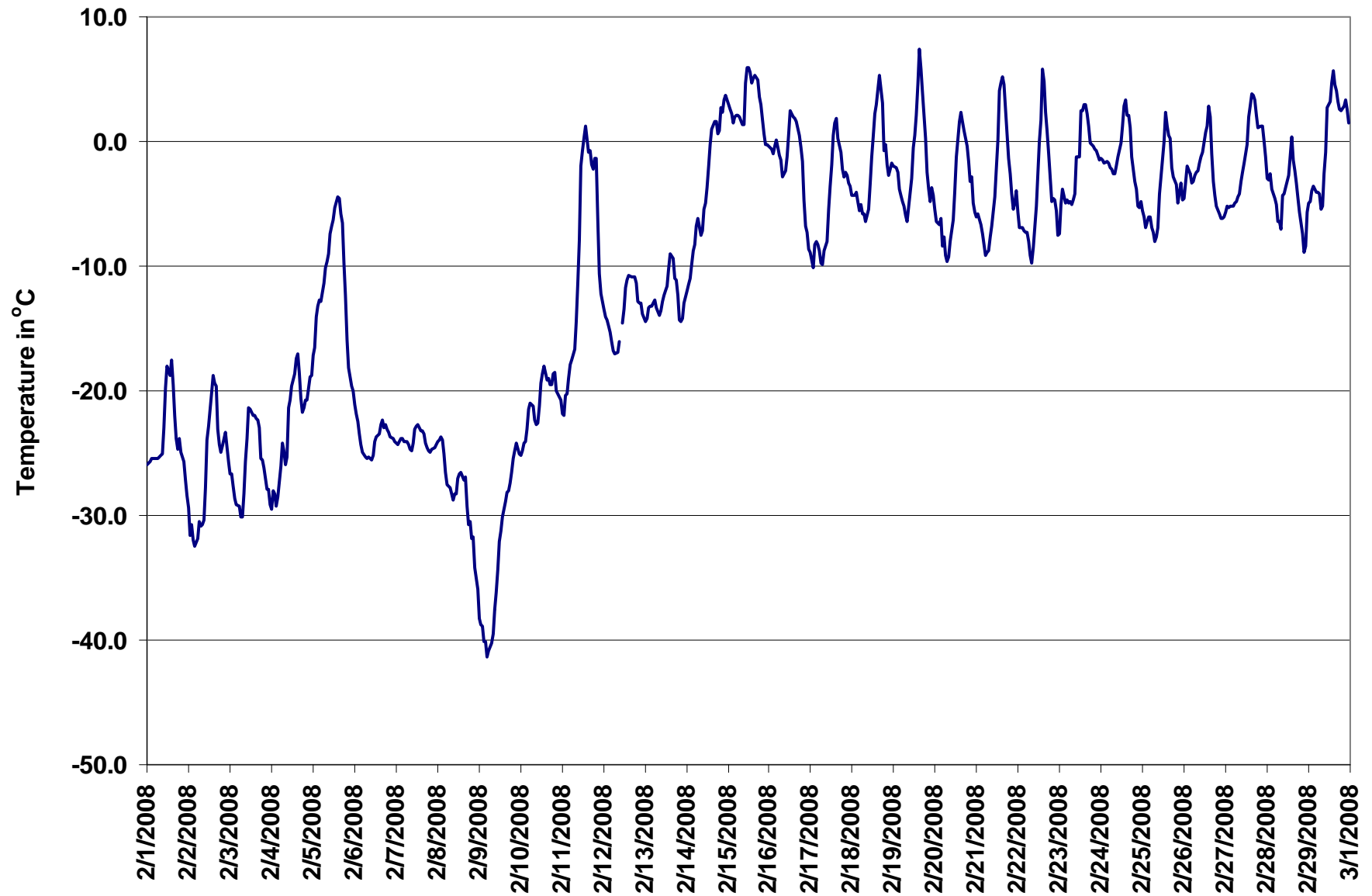


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

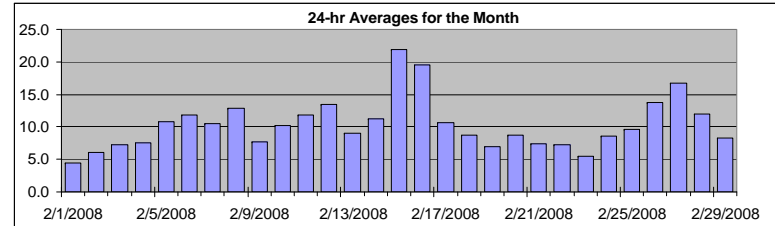
Wind Speed (WSs)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	42.8	km/hr	15-Feb	12:00 13:00
Maximum 24-hr Value:	21.8	km/hr	15-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.9	22.3	12.8	9.3	6.4	3.3	2.5	10.4 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	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-Feb-08	6	5	3	3	3	3	3	3	3	3	4	3	3	5	3	4	6	4	4	5	7	7	6	7	4.4	7.4	
2-Feb-08	3	4	7	7	7	9	8	7	6	5	4	8	9	6	4	6	3	5	6	4	5	7	5	9	6.0	9.5	
3-Feb-08	7	9	10	7	6	4	5	6	6	5	8	10	13	14	12	13	11	4	5	5	5	2	3	3	7.2	14.0	
4-Feb-08	4	4	3	2	3	4	4	3	3	5	8	11	10	11	13	11	13	13	11	9	10	10	10	7	7.6	13.1	
5-Feb-08	8	7	10	9	9	9	10	7	9	7	5	6	6	8	9	10	13	17	25	18	18	15	14	10	10.8	25.0	
6-Feb-08	15	12	12	13	14	17	18	16	14	11	15	14	10	8	6	4	2	3	6	13	15	15	15	16	11.8	17.9	
7-Feb-08	13	14	16	16	14	12	12	12	11	10	9	6	5	6	7	7	8	11	12	11	11	11	10	9	10.6	15.9	
8-Feb-08	14	8	11	16	19	22	20	12	15	17	17	17	10	9	8	3	3	4	9	13	15	16	13	15	12.8	22.4	
9-Feb-08	8	8	9	7	9	9	6	7	6	6	8	9	5	6	6	5	3	9	10	8	8	10	11	12	7.7	12.3	
10-Feb-08	13	13	10	6	6	9	12	13	14	12	11	8	6	6	4	10	12	9	12	11	14	13	10	10	10.2	14.0	
11-Feb-08	10	9	7	5	6	9	8	7	10	14	13	19	16	13	10	9	11	15	16	14	11	16	17	16	11.8	19.3	
12-Feb-08	16	17	15	14	16	17	17	20	18	19	P	22	24	17	16	14	11	4	5	2	4	4	8	10	13.5	23.7	
13-Feb-08	12	14	9	11	8	8	10	11	7	6	6	5	7	10	9	9	8	12	12	10	8	8	8	11	9.0	13.6	
14-Feb-08	8	9	10	12	12	8	9	8	7	8	9	7	10	15	14	9	10	14	8	12	15	14	15	28	11.2	27.9	
15-Feb-08	11	14	11	6	12	11	11	15	15	9	25	41	43	40	32	26	27	32	26	28	23	20	23	24	21.8	42.8	
16-Feb-08	28	27	26	27	30	27	26	22	13	8	9	5	7	27	30	27	21	18	11	12	18	20	17	13	19.5	29.9	
17-Feb-08	5	5	10	7	6	9	12	10	12	9	10	13	16	19	15	12	14	12	11	5	9	12	9	10	10.6	19.0	
18-Feb-08	7	10	8	8	8	10	14	12	9	11	10	11	10	6	7	4	2	4	6	10	10	9	12	9	8.7	14.4	
19-Feb-08	6	7	8	10	8	8	8	10	7	8	7	6	7	6	3	3	10	10	4	7	7	6	8	4	7.0	10.4	
20-Feb-08	4	5	4	4	6	5	6	8	10	12	11	10	10	10	10	10	10	11	12	13	11	12	8	6	8.7	13.0	
21-Feb-08	10	6	6	8	10	9	12	10	8	9	9	6	5	3	3	4	3	3	2	5	8	9	13	13	7.3	13.2	
22-Feb-08	7	10	9	7	9	12	9	8	10	10	12	10	8	7	3	5	6	9	5	4	5	4	3	5	7.2	11.8	
23-Feb-08	7	9	5	3	5	4	4	5	5	3	3	3	3	7	6	7	6	8	7	7	8	6	5	6	5.5	9.2	
24-Feb-08	8	7	6	10	11	12	11	11	9	8	7	10	9	9	9	10	10	8	9	7	6	6	7	7	8.6	11.6	
25-Feb-08	7	8	8	9	10	11	11	9	10	6	9	4	4	4	10	13	10	8	10	13	14	17	13	15	9.7	16.9	
26-Feb-08	17	15	14	14	14	16	15	14	8	11	12	10	9	11	7	12	15	15	16	17	19	25	13	12	13.8	24.9	
27-Feb-08	12	10	11	7	8	7	5	7	8	8	11	13	13	17	20	22	36	31	30	26	26	29	24	22	16.7	36.4	
28-Feb-08	19	21	22	18	20	19	19	8	7	8	8	9	10	11	11	13	12	9	9	7	5	5	7	10	12.0	22.2	
29-Feb-08	5	5	6	8	7	7	6	8	2	4	6	3	2	4	3	10	12	11	14	20	15	14	14	13	8.3	19.6	
1-hr Average	10.0	10.1	9.9	9.5	10.2	10.6	10.7	10.0	9.1	8.8	9.5	10.3	10.0	10.8	10.1	10.0	10.8	10.7	10.8	10.9	11.4	11.9	11.0	11.5			
Hourly Max	27.6	27.1	26.0	27.0	29.9	26.6	25.9	22.2	17.7	18.6	24.6	40.7	42.8	40.0	32.2	27.4	36.4	32.0	29.6	28.1	25.7	28.9	23.6	27.9			

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

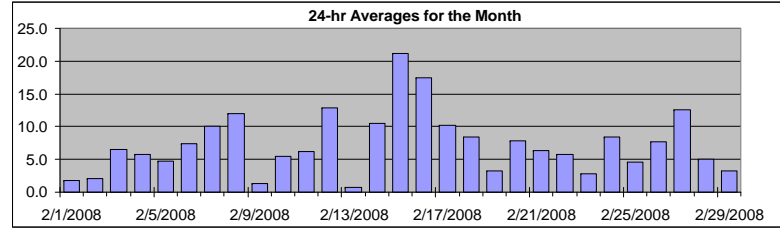
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	42.8	km/hr	15-Feb	12:00 13:00
Maximum 24-hr Value:	21.1	km/hr	15-Feb	



Calm Time:	0 hrs	0% calms	Operational Time:	695 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.8	22.2	12.5	9.1	6.1	2.5	1.0	18.3 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-Feb-08	6	4	3	3	3	2	3	3	2	3	4	3	3	5	3	2	6	4	4	5	7	7	6	7	1.7	7.3	
2-Feb-08	3	4	7	6	7	9	8	6	6	5	4	8	9	6	4	6	1	3	6	3	3	7	5	9	2.1	9.5	
3-Feb-08	7	9	10	7	6	4	3	6	6	5	7	10	13	14	12	13	11	3	4	4	4	2	3	3	6.5	13.9	
4-Feb-08	4	4	2	1	2	4	1	3	2	5	8	11	10	11	13	10	13	13	11	9	10	10	10	7	5.8	13.0	
5-Feb-08	8	7	10	9	9	9	9	7	9	7	5	4	6	8	9	10	13	16	25	18	18	15	14	10	4.7	24.9	
6-Feb-08	15	11	12	13	14	17	18	16	14	11	15	14	9	8	6	4	1	3	6	13	15	15	15	16	7.5	17.8	
7-Feb-08	13	14	16	16	13	12	12	12	10	10	9	6	5	5	7	7	8	10	12	11	11	10	10	9	10.0	15.8	
8-Feb-08	14	8	11	16	19	22	20	11	15	17	17	17	10	9	7	1	2	3	9	13	14	16	12	15	12.0	22.3	
9-Feb-08	8	7	9	6	8	9	6	7	6	6	8	9	5	6	6	4	1	8	10	8	8	10	10	12	1.4	12.3	
10-Feb-08	13	13	10	6	6	9	12	13	14	12	11	8	5	5	4	10	12	9	12	11	14	13	10	9	5.5	13.9	
11-Feb-08	10	9	7	5	5	9	8	7	10	14	12	19	16	13	9	8	11	15	16	14	8	16	17	16	6.3	19.2	
12-Feb-08	16	17	15	14	16	17	17	20	18	19	P	22	24	16	16	14	11	4	4	2	2	4	8	10	12.8	23.6	
13-Feb-08	12	13	9	10	7	8	9	10	7	6	5	5	6	10	9	9	8	11	11	9	8	8	8	11	0.7	13.4	
14-Feb-08	7	8	10	12	11	8	8	8	6	8	9	7	10	15	14	9	10	13	8	12	15	14	14	28	10.5	27.8	
15-Feb-08	10	14	11	6	12	11	11	14	15	8	24	41	43	40	32	26	26	32	26	28	23	20	23	24	21.1	42.8	
16-Feb-08	28	27	26	27	30	27	26	22	13	5	8	5	2	27	30	27	21	18	11	12	17	20	17	13	17.5	29.7	
17-Feb-08	5	5	10	7	6	9	12	10	12	9	10	13	16	19	15	12	14	11	11	5	9	12	9	10	10.2	18.9	
18-Feb-08	7	10	8	8	8	10	14	12	9	11	10	10	9	6	6	4	1	3	6	10	10	9	12	9	8.4	14.2	
19-Feb-08	5	6	7	10	8	8	8	10	7	8	7	5	7	6	2	2	10	10	2	6	7	6	4	3	3.2	10.4	
20-Feb-08	2	5	3	4	6	5	6	8	10	12	10	10	10	10	10	10	10	11	12	13	11	12	7	4	7.9	13.0	
21-Feb-08	10	6	6	8	10	9	12	10	8	9	8	6	5	3	2	4	2	3	1	5	7	8	13	13	6.4	12.8	
22-Feb-08	6	9	9	7	9	12	9	8	10	10	12	10	8	6	2	4	6	9	5	3	4	3	2	4	5.7	11.6	
23-Feb-08	7	9	4	1	3	4	2	4	1	1	3	1	3	7	6	6	6	8	7	7	8	6	5	5	2.8	9.1	
24-Feb-08	7	7	6	10	10	11	11	11	9	8	7	10	9	9	9	10	10	8	9	7	6	6	7	7	8.5	11.4	
25-Feb-08	7	8	8	9	10	11	10	9	10	5	9	4	3	3	9	13	10	7	10	13	14	17	13	15	4.6	16.8	
26-Feb-08	16	15	14	14	14	15	15	9	8	10	12	10	8	10	7	12	15	15	16	17	19	25	13	12	7.7	24.9	
27-Feb-08	12	10	11	7	8	7	3	7	8	8	11	13	12	17	20	22	36	31	30	26	26	29	24	22	12.6	36.3	
28-Feb-08	19	21	22	18	20	19	19	6	6	8	8	9	10	11	11	13	12	8	9	5	3	5	6	9	5.0	22.2	
29-Feb-08	4	3	6	7	6	5	5	7	0	4	6	3	1	4	2	9	12	11	14	20	15	14	14	13	3.2	19.6	
1-hr Vector	4.7	4.0	4.6	3.9	4.9	4.8	4.8	4.0	3.2	2.9	4.0	3.9	3.9	4.4	4.1	3.9	4.8	5.3	5.3	5.4	5.7	5.1	4.9	5.1			
Hourly Max	27.5	27.0	26.0	27.0	29.7	26.6	25.8	22.2	17.6	18.6	24.1	40.7	42.8	39.9	32.2	27.3	36.3	31.9	29.6	28.1	25.6	28.9	23.6	27.8			

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

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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:	99.9%			
Percentile	99	95	75	50	25	5	1
	79.0	53.2	17.9	10.0	6.1	3.5	2.6

Status Flag Characters

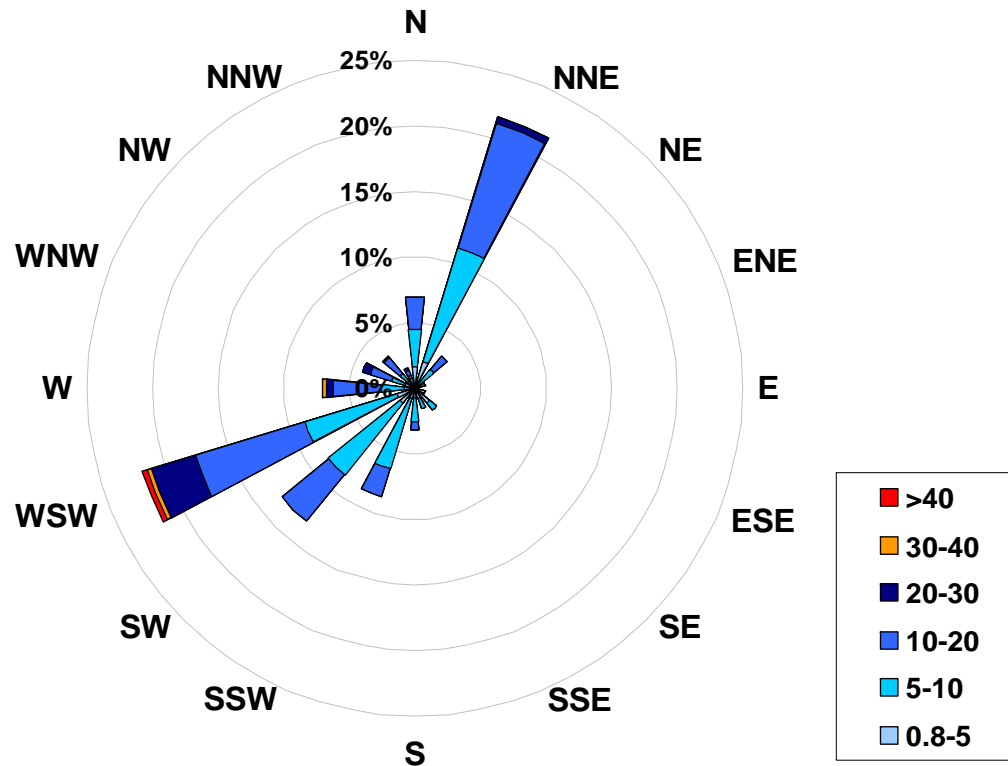
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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-Feb-08	9	16	23	21	23	43	17	31	32	15	17	35	18	5	34	56	6	15	28	12	7	7	8	5		55.7	
2-Feb-08	27	12	13	30	20	6	10	11	16	15	10	9	4	9	20	6	79	49	15	41	53	20	12	3		78.8	
3-Feb-08	8	6	10	4	8	17	70	31	9	19	13	9	6	8	7	6	5	66	21	26	46	27	27	10		70.4	
4-Feb-08	23	12	50	89	46	39	79	40	56	26	8	4	8	5	6	14	3	5	7	8	7	6	6	11		89.3	
5-Feb-08	10	15	6	8	9	13	14	11	8	11	19	62	9	7	4	5	7	8	6	11	8	17	12	16		61.7	
6-Feb-08	8	11	10	14	9	6	6	11	9	21	8	4	15	10	12	16	60	33	12	7	6	4	5	3		60.0	
7-Feb-08	8	7	6	6	7	7	9	9	9	13	7	12	23	19	11	11	10	5	6	10	14	12	12	15		23.0	
8-Feb-08	7	15	12	8	7	5	8	13	10	7	8	10	23	16	32	87	46	60	13	15	11	3	16	5		87.2	
9-Feb-08	26	29	20	18	17	7	20	16	7	14	6	4	25	8	20	27	80	6	5	5	12	5	10	4		79.5	
10-Feb-08	5	7	8	13	16	6	7	8	7	7	5	11	25	21	23	12	4	13	9	7	9	4	10	5		24.8	
11-Feb-08	5	11	11	14	56	9	10	12	10	12	18	4	3	12	18	16	8	8	4	8	43	5	4	4		55.8	
12-Feb-08	4	3	4	5	5	4	3	3	4	3	P	6	5	6	5	6	9	22	17	51	70	21	9	8		70.1	
13-Feb-08	4	9	16	10	13	15	14	13	11	13	18	18	13	14	8	13	13	12	5	14	20	15	16	8		20.4	
14-Feb-08	6	19	17	6	11	10	11	29	13	16	11	10	3	3	4	8	4	11	13	6	9	12	23	6		28.6	
15-Feb-08	24	18	10	18	5	10	6	17	8	19	14	3	3	5	3	6	4	4	2	3	3	5	5	4		23.9	
16-Feb-08	3	4	3	4	6	4	3	3	28	57	37	38	68	8	7	6	6	4	4	3	18	2	6	9		68.5	
17-Feb-08	36	27	9	10	12	11	9	8	6	23	20	5	12	6	5	8	6	15	16	17	22	6	9	12		35.8	
18-Feb-08	11	9	9	8	6	8	11	8	13	8	9	17	17	8	13	33	52	43	21	9	10	11	4	18		51.5	
19-Feb-08	19	28	11	4	11	8	7	4	9	11	17	29	11	14	59	45	10	8	69	27	13	22	64	30		69.1	
20-Feb-08	56	25	50	20	11	12	13	10	8	12	16	10	4	4	4	6	10	5	8	3	5	7	66	44		66.5	
21-Feb-08	18	26	23	11	6	9	4	5	7	5	23	12	20	28	48	29	51	32	60	18	17	14	15	25		60.0	
22-Feb-08	28	16	13	11	9	10	5	6	9	5	11	8	16	39	71	52	22	18	14	41	37	54	45	30		71.3	
23-Feb-08	12	3	31	71	43	39	79	39	87	66	45	90	65	7	9	7	10	7	7	9	3	8	17	14		90.0	
24-Feb-08	15	13	28	6	9	10	7	8	11	6	5	6	13	10	8	9	4	7	4	6	17	5	4			27.7	
25-Feb-08	3	30	3	4	3	4	4	5	14	51	6	27	37	41	5	6	5	19	11	6	7	6	14	9		51.0	
26-Feb-08	7	12	10	7	5	7	4	56	11	19	4	7	9	5	8	7	6	5	4	5	4	3	8	7		56.4	
27-Feb-08	6	5	4	6	6	10	60	11	7	8	11	15	18	6	8	8	4	4	3	6	4	3	4	2		59.5	
28-Feb-08	5	2	1	3	4	9	2	40	32	8	6	7	5	6	8	9	6	9	6	47	50	45	16	21		50.2	
29-Feb-08	39	71	21	32	32	43	34	44	79	14	17	35	82	22	39	10	7	5	9	6	11	6	10	7		82.5	

Hourly Max	56	71	50	89	56	43	79	56	87	66	45	90	82	41	71	87	80	66	69	51	70	54	66	44
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	107
5	to	10	283
10	to	20	261
20	to	30	37
30	to	40	4
	>	40	3
Total Non-Zero Values			695

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: February 1, 2008 to March 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:	651
Number of 1-hr Fair Readings:	0
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-Feb-08	8	8	7	7	N	6	6	5	5	7	8	9	9	9	9	14	8	6	5	6	7	6	7	7
2-Feb-08	7	7	8	6	N	8	7	7	9	10	10	11	7	13	13	19	12	9	9	12	9	10	10	10
3-Feb-08	6	6	6	7	N	6	6	8	8	8	9	10	10	11	11	12	11	10	9	9	9	8	6	6
4-Feb-08	6	6	7	4	N	4	19	8	6	12	10	9	12	14	8	13	7	8	10	9	11	15	15	16
5-Feb-08	16	16	12	14	N	9	8	12	10	17	N	N	N	10	N	10	7	11	9	9	9	10	11	12
6-Feb-08	12	13	13	14	N	15	15	15	14	13	14	14	N	15	15	15	14	14	14	14	13	13	13	14
7-Feb-08	14	14	15	14	N	14	13	13	13	14	14	N	15	N	14	14	14	13	14	14	14	14	14	14
8-Feb-08	14	15	16	16	N	16	16	16	16	16	16	16	16	17	17	16	16	14	15	14	12	8	10	12
9-Feb-08	11	13	12	12	N	10	11	10	8	10	8	11	13	13	15	17	15	13	14	15	16	16	16	16
10-Feb-08	16	16	15	14	N	14	14	13	13	13	13	13	13	13	13	12	12	9	7	6	6	7	5	5
11-Feb-08	7	15	17	20	N	20	20	19	18	17	18	N	N	N	N	N	4	0	3	20	20	N	19	20
12-Feb-08	20	20	16	14	N	16	13	12	12	12	11	12	13	13	13	12	12	10	7	6	7	8	7	8
13-Feb-08	12	11	10	11	N	9	9	10	9	10	11	12	12	12	12	11	11	13	14	13	12	14	15	14
14-Feb-08	14	15	15	15	N	19	19	19	19	19	19	19	19	19	19	19	18	18	19	19	19	19	18	17
15-Feb-08	17	17	17	17	N	16	17	15	15	17	18	18	N	17	17	18	18	18	19	19	19	19	19	19
16-Feb-08	19	20	20	20	N	20	20	20	20	20	20	20	21	21	21	21	21	19	19	20	20	20	19	19
17-Feb-08	18	18	17	17	N	16	16	17	17	18	20	20	19	21	22	21	21	19	19	19	18	18	18	17
18-Feb-08	18	18	19	21	N	22	22	21	20	21	N	22	23	25	24	24	23	22	22	24	24	24	24	23
19-Feb-08	24	23	21	20	N	19	19	19	19	19	16	18	19	18	21	24	23	23	20	19	19	22	21	18
20-Feb-08	17	15	16	14	N	11	13	14	13	15	16	14	12	14	19	23	24	21	19	19	20	20	20	18
21-Feb-08	16	16	16	14	N	17	17	16	15	15	15	15	14	16	20	19	17	18	21	19	17	20	22	15
22-Feb-08	15	16	18	14	N	13	15	16	15	16	18	19	20	21	23	24	21	16	18	20	21	20	17	17
23-Feb-08	12	11	16	18	N	17	12	11	10	11	13	16	16	17	16	17	17	18	19	15	16	18	18	18
24-Feb-08	19	18	18	19	N	17	15	11	14	15	12	17	17	20	21	21	21	20	22	21	19	16	20	22
25-Feb-08	22	21	21	21	N	18	19	19	15	13	13	15	17	17	17	16	15	14	11	14	19	20	21	21
26-Feb-08	20	20	19	19	N	18	15	15	17	19	18	17	18	19	21	21	21	22	22	22	22	20	20	20
27-Feb-08	20	20	18	16	N	15	12	10	11	12	11	13	17	N	22	22	22	21	21	20	20	20	20	20
28-Feb-08	21	20	20	20	N	20	19	19	19	19	19	20	20	20	20	20	19	20	20	20	19	19	19	19
29-Feb-08	20	18	18	16	N	15	14	12	14	16	17	20	15	18	21	22	23	22	22	21	21	22	22	22

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

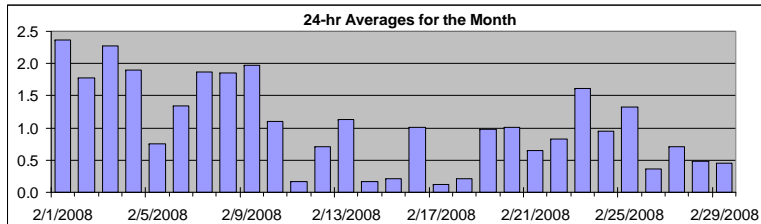
Monitoring Dates: February 1, 2008 to March 1, 2008

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	25-Feb	8:00 9:00
Maximum 24-hr Average:	2.4	ppb	1-Feb	

AIC Time:	30 hrs		Operational Time:	663 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.7	1.7	0.8	0.3	0.1	0.0	1.0 ppb	0.8 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	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-Feb-08	3	3	3	3	A	3	3	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2.4	3.2
2-Feb-08	2	2	2	2	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1.8	2.5	
3-Feb-08	1	1	1	2	A	2	2	1	1	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	3	2.3	3.5	
4-Feb-08	3	4	4	3	A	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	1.9	4.5	
5-Feb-08	0	0	1	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5	
6-Feb-08	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	3	2	2	3	1.3	3.4		
7-Feb-08	3	2	1	2	A	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	4	1.9	3.7		
8-Feb-08	3	2	2	1	A	1	1	2	1	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1.9	2.5		
9-Feb-08	2	2	2	2	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2.0	2.3		
10-Feb-08	2	2	2	2	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2		
11-Feb-08	0	0	0	0	A	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.2	0.5		
12-Feb-08	0	0	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	1.2		
13-Feb-08	0	1	2	2	A	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	1.1	1.9		
14-Feb-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	0.2	0.3		
15-Feb-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.2	1.3		
16-Feb-08	0	0	0	0	A	4	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	5.0		
17-Feb-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	0.3		
18-Feb-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	0.2	0.5		
19-Feb-08	0	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	1.7		
20-Feb-08	4	3	3	2	A	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1.0	3.5		
21-Feb-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	0.6	3.4			
22-Feb-08	2	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2	2	1	0.8	2.7			
23-Feb-08	1	1	1	1	A	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1.6	2.3		
24-Feb-08	3	2	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0.9	2.7		
25-Feb-08	0	0	0	0	A	1	2	3	7	4	3	2	1	1	1	1	1	1	1	0	0	0	0	0	0	1.3	6.9		
26-Feb-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.4	0.7		
27-Feb-08	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.7	1.5		
28-Feb-08	0	0	1	1	A	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	1	0.5	2.2		
29-Feb-08	1	0	0	1	A	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0.5	1.2			
Hourly Avg	1.2	1.1	1.1	1.1	N	1.2	1.1	1.1	1.2	1.2	1.1	1.1	1.0	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0		
Hourly Max	3.5	4.5	3.6	2.7	0.0	4.3	5.0	3.8	6.9	4.5	2.9	2.8	3.4	3.5	3.2	2.8	2.6	2.8	2.4	2.7	3.4	3.4	2.3	3.7					

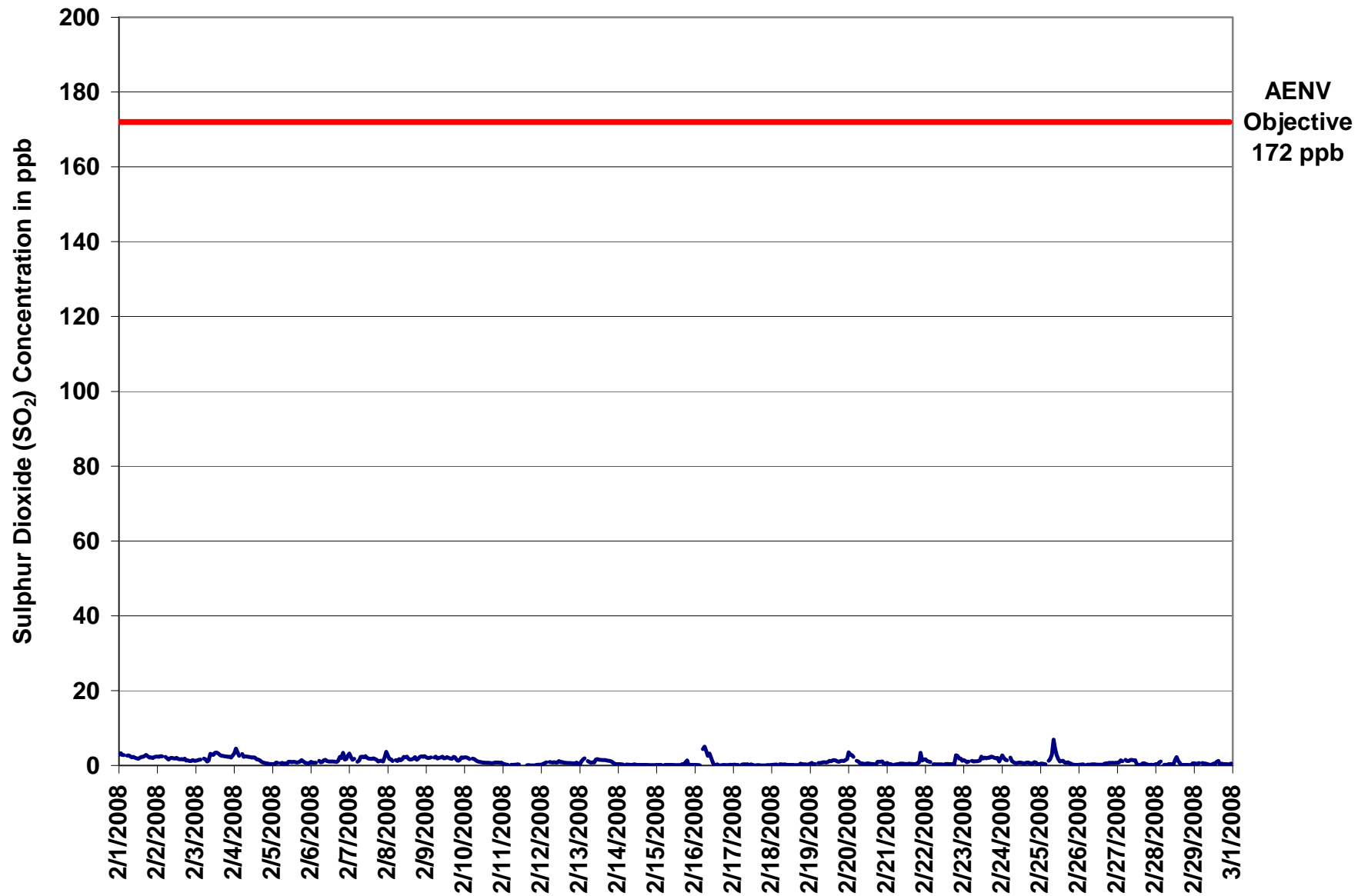


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

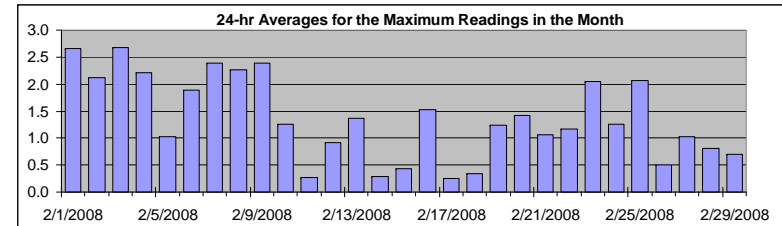
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	11.3	ppb	25-Feb	8:00 9:00
Maximum 24-hr Value:	2.7	ppb	3-Feb	



AIC Time:	30 hrs	Operational Time:	663 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.8	3.3	2.1	1.0	0.4	0.2	0.1	1.4 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-Feb-08	3	4	3	3	A	3	3	3	2	2	2	2	2	2	3	3	3	4	3	2	2	2	2	3	2.7	3.9
2-Feb-08	3	2	3	3	A	3	2	2	3	3	2	2	2	2	2	2	2	3	2	2	1	1	2	1	2.1	2.8
3-Feb-08	2	2	2	2	A	3	2	2	2	4	3	3	4	4	3	3	3	3	3	2	3	2	3	2.7	4.0	
4-Feb-08	3	6	5	3	A	3	2	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	2.2	6.1	
5-Feb-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.0	2.1	
6-Feb-08	2	1	1	1	A	1	1	1	2	2	2	1	1	1	1	1	1	2	3	5	5	3	2	1.9	4.7	
7-Feb-08	4	3	3	2	A	1	2	3	3	3	3	2	2	2	2	2	2	2	2	2	1	4	4	2.4	4.0	
8-Feb-08	3	2	2	2	A	2	2	2	2	2	3	2	3	2	2	2	2	2	2	2	3	3	3	2.3	3.5	
9-Feb-08	3	2	2	3	A	3	3	2	2	2	4	2	2	3	2	2	2	3	3	2	1	2	2	2.4	3.8	
10-Feb-08	2	2	2	2	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.4	
11-Feb-08	1	0	0	0	A	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0.3	0.6	
12-Feb-08	0	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7	
13-Feb-08	1	2	2	3	A	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0	1.4	2.6	
14-Feb-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	0.4	
15-Feb-08	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	1	0	2	2	0	0	0	0	0.4	2.2	
16-Feb-08	0	0	0	0	A	8	7	5	3	4	3	2	0	0	0	0	0	0	0	0	0	0	0	1.5	8.1	
17-Feb-08	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1	
18-Feb-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0.3	0.7	
19-Feb-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	2	1.2	2.9	
20-Feb-08	6	4	3	3	A	2	1	1	1	1	0	1	1	1	0	1	0	0	1	1	1	1	1	1.4	5.8	
21-Feb-08	1	1	0	0	A	0	0	0	1	1	1	0	1	0	1	1	0	0	1	1	3	6	3	1.1	5.7	
22-Feb-08	2	2	1	1	A	0	0	0	0	0	0	0	0	0	0	0	1	1	5	4	2	2	1	1.2	4.6	
23-Feb-08	2	2	1	1	A	1	1	1	1	1	2	4	2	2	2	2	2	3	3	3	2	2	1	2.1	3.7	
24-Feb-08	3	3	2	2	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.2	3.1	
25-Feb-08	1	1	1	0	A	2	2	6	11	7	4	2	1	2	2	1	1	1	1	1	0	0	0	2.1	11.3	
26-Feb-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0.5	0.9	
27-Feb-08	1	1	2	1	A	2	1	1	2	2	2	2	1	0	0	1	1	1	1	0	0	0	0	1.0	2.2	
28-Feb-08	1	0	2	2	A	0	0	0	0	0	0	0	2	3	2	1	0	0	0	0	0	0	1	0.8	3.4	
29-Feb-08	1	1	1	1	A	1	1	1	1	0	0	0	1	1	2	2	0	1	1	0	0	0	1	0.7	2.3	
Hourly Avg	1.6	1.5	1.4	1.3	N	1.6	1.5	1.5	1.6	1.5	1.5	1.4	1.3	1.3	1.3	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.2	1.3		
Hourly Max	5.8	6.1	5.1	2.9	0.0	8.1	7.0	6.4	11.3	6.6	4.4	3.7	4.0	3.9	3.5	3.1	2.8	3.9	3.3	4.6	4.7	5.7	3.8	3.8		

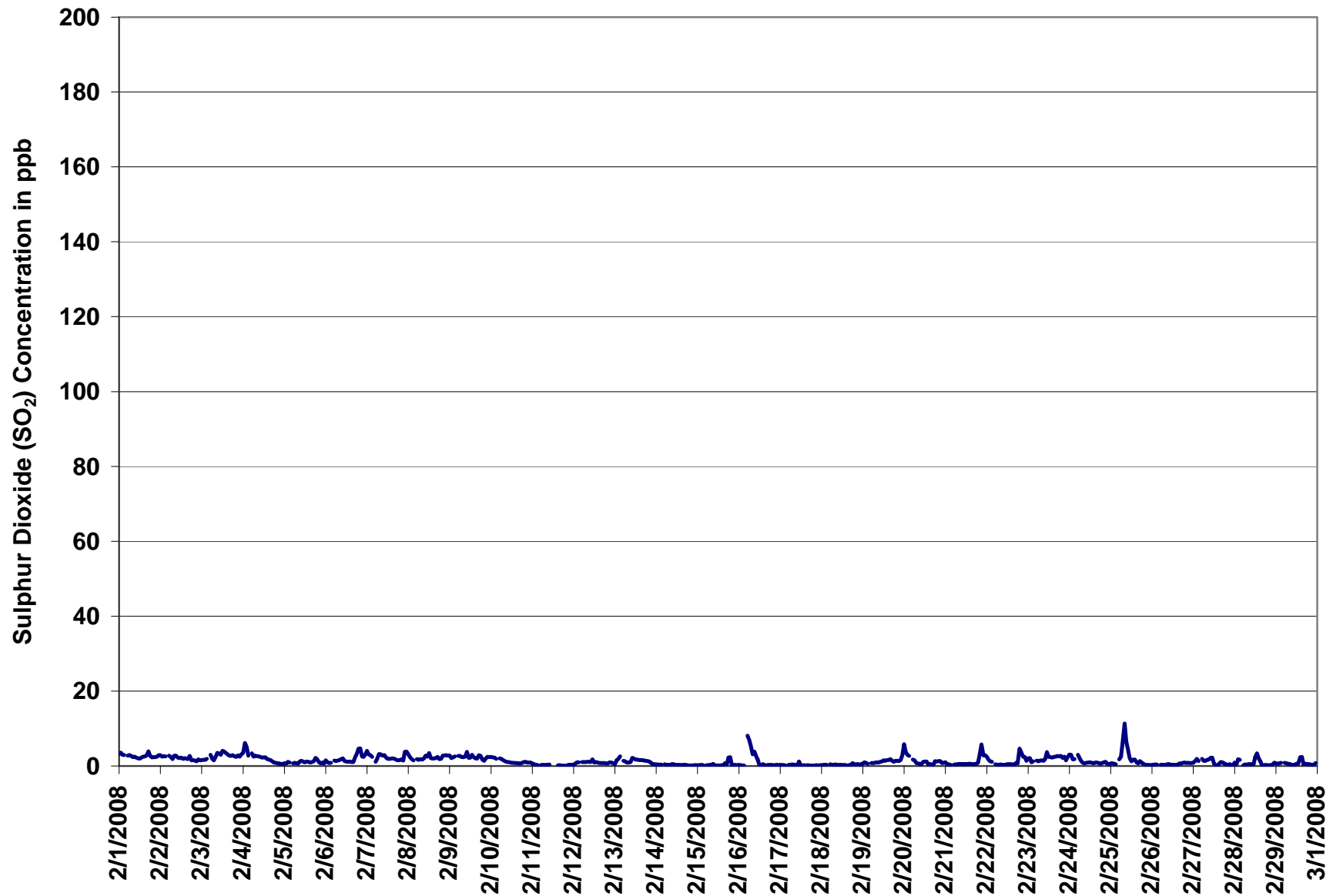
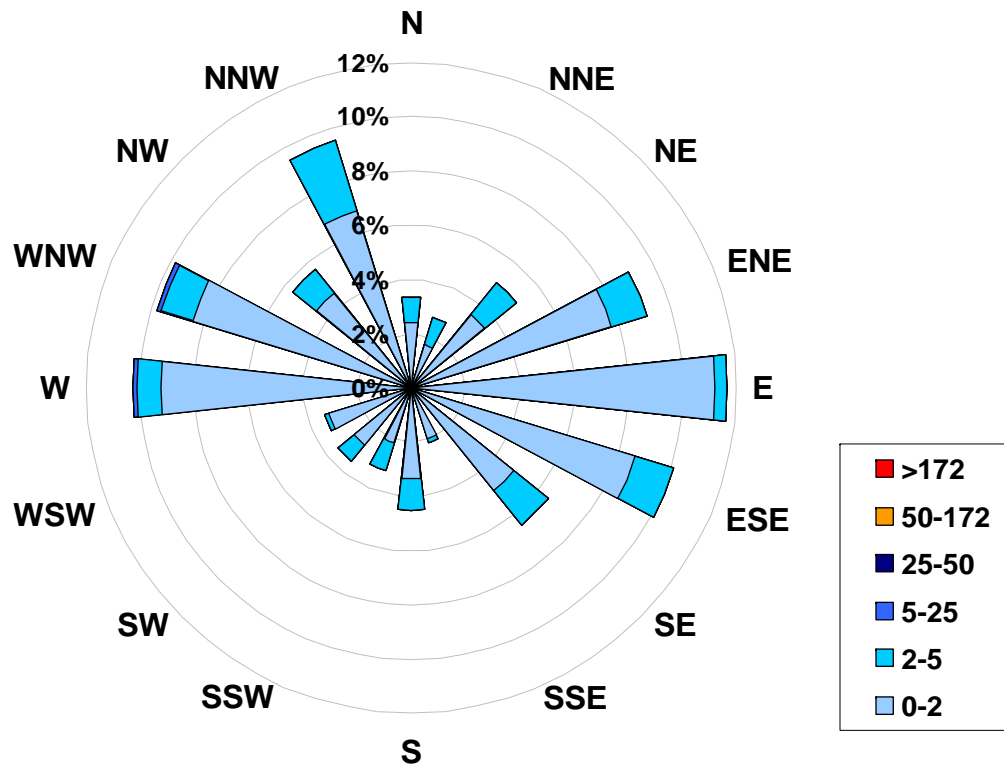


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		543
2	to 5		117
5	to 25		2
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			663

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

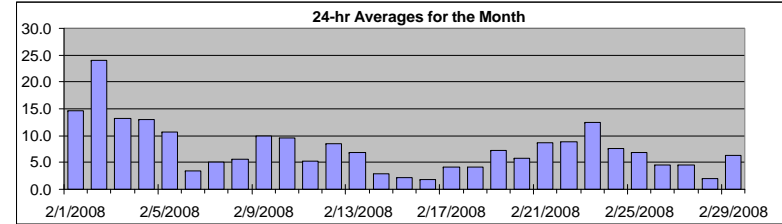
Monitoring Dates: February 1, 2008 to March 1, 2008

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:	31.1	ppb	2-Feb	17:00 18:00
Maximum 24-hr Average:	24.1	ppb	2-Feb	

AIC Time:	29 hrs		Operational Time:	660 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average	Median
	28.7	20.8	10.3	5.6	3.0	1.2	0.2	7.6 ppb	5.6 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	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-Feb-08	10	9	12	12	A	12	13	16	20	13	9	8	10	10	9	10	11	15	20	24	28	24	23	20	14.6	27.6	
2-Feb-08	17	19	23	26	A	24	30	28	25	21	18	21	16	15	16	21	25	31	29	30	30	30	30	28	24.1	31.1	
3-Feb-08	24	22	22	26	A	27	25	21	18	9	7	6	5	4	4	5	6	10	9	8	8	9	14	15	13.2	26.6	
4-Feb-08	14	13	15	16	A	15	19	19	20	13	12	10	8	9	10	12	15	16	14	17	13	7	7	5	13.0	20.0	
5-Feb-08	5	5	11	9	A	18	20	14	17	6	8	8	8	19	18	19	26	10	6	5	5	3	3	2	10.6	25.9	
6-Feb-08	2	2	2	2	A	2	2	3	6	7	5	3	2	2	2	2	2	4	4	4	7	4	5	4	3.4	6.8	
7-Feb-08	5	4	3	4	A	4	5	6	6	5	4	3	5	5	4	5	5	7	7	5	4	5	7	7	5.0	6.7	
8-Feb-08	6	4	4	2	A	3	3	3	3	3	2	2	2	2	2	3	3	8	6	7	11	23	15	11	5.6	22.8	
9-Feb-08	16	9	11	10	A	16	12	12	17	14	25	18	11	10	6	2	5	9	6	5	3	3	3	3	9.9	24.7	
10-Feb-08	4	4	5	5	A	4	6	7	7	6	6	5	5	6	6	7	8	14	17	19	18	17	22	22	9.5	21.9	
11-Feb-08	17	9	6	3	A	3	3	5	7	10	7	C	C	C	C	C	2	2	2	2	2	4	4	3	5.2	17.2	
12-Feb-08	3	2	6	5	A	3	7	6	6	6	8	5	4	5	6	6	8	11	17	17	16	15	15	17	8.5	17.5	
13-Feb-08	8	10	8	7	A	9	9	7	9	7	5	4	4	6	6	8	8	7	5	7	8	6	5	7	6.9	9.9	
14-Feb-08	6	6	6	5	A	2	2	2	3	4	2	3	1	2	2	2	3	4	2	2	1	1	2	4	2.9	6.1	
15-Feb-08	3	3	3	3	A	4	2	5	6	2	1	1	1	1	1	1	1	2	2	1	2	2	1	1	2.2	5.9	
16-Feb-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	3	5	4	3	2	1	3	3	1.8	5.3
17-Feb-08	3	3	4	4	A	7	6	4	3	4	4	5	6	2	2	3	3	6	5	3	6	4	4	5	4.2	6.5	
18-Feb-08	5	4	3	2	A	2	2	4	7	6	5	5	3	2	4	5	5	8	8	3	3	3	3	4	4.2	8.0	
19-Feb-08	2	2	5	6	A	5	5	5	6	6	14	12	11	13	7	3	5	5	11	10	10	5	6	10	7.3	14.1	
20-Feb-08	11	13	12	13	A	17	13	10	11	8	7	M	M	0	0	0	0	0	0	1	0	0	1	0	3	5.7	16.5
21-Feb-08	8	6	7	10	A	6	6	7	10	10	11	9	13	11	6	7	13	11	7	7	9	6	5	17	8.7	17.0	
22-Feb-08	14	11	7	12	A	13	9	7	9	8	4	4	4	3	2	3	8	16	14	12	9	11	12	10	8.8	16.0	
23-Feb-08	20	21	9	6	A	6	15	17	19	19	15	12	12	11	13	11	12	10	9	14	13	9	8	6	12.4	20.6	
24-Feb-08	4	5	5	4	A	9	10	16	24	19	13	7	8	4	3	3	4	6	3	4	7	12	4	2	7.6	24.1	
25-Feb-08	2	2	2	2	A	5	5	5	11	15	17	12	9	8	8	6	6	7	13	10	6	4	3	2	6.9	17.1	
26-Feb-08	3	3	3	4	A	4	10	9	7	6	7	6	5	4	3	5	6	4	4	2	2	3	2	2	4.4	10.2	
27-Feb-08	3	3	4	5	A	6	10	14	10	11	11	9	4	1	1	1	1	1	1	1	1	1	2	1	4.5	14.0	
28-Feb-08	1	1	1	1	A	1	2	2	2	1	1	1	1	1	1	2	2	2	3	4	4	5	4	4	2.1	4.7	
29-Feb-08	3	7	7	9	A	9	10	14	11	8	8	4	11	9	5	5	3	3	3	4	3	2	2	2	6.3	13.9	
Hourly Avg	7.5	7.0	7.1	7.4	N	8.1	9.0	9.4	10.3	8.6	8.2	6.8	6.4	5.9	5.3	5.7	6.9	8.1	7.9	7.9	8.0	7.6	7.3	7.5			
Hourly Max	23.8	22.0	23.0	26.4	0.0	26.6	29.9	28.3	24.9	20.9	24.7	20.8	16.4	19.0	17.7	21.2	25.9	31.1	29.2	30.0	29.9	30.4	29.6	28.2			

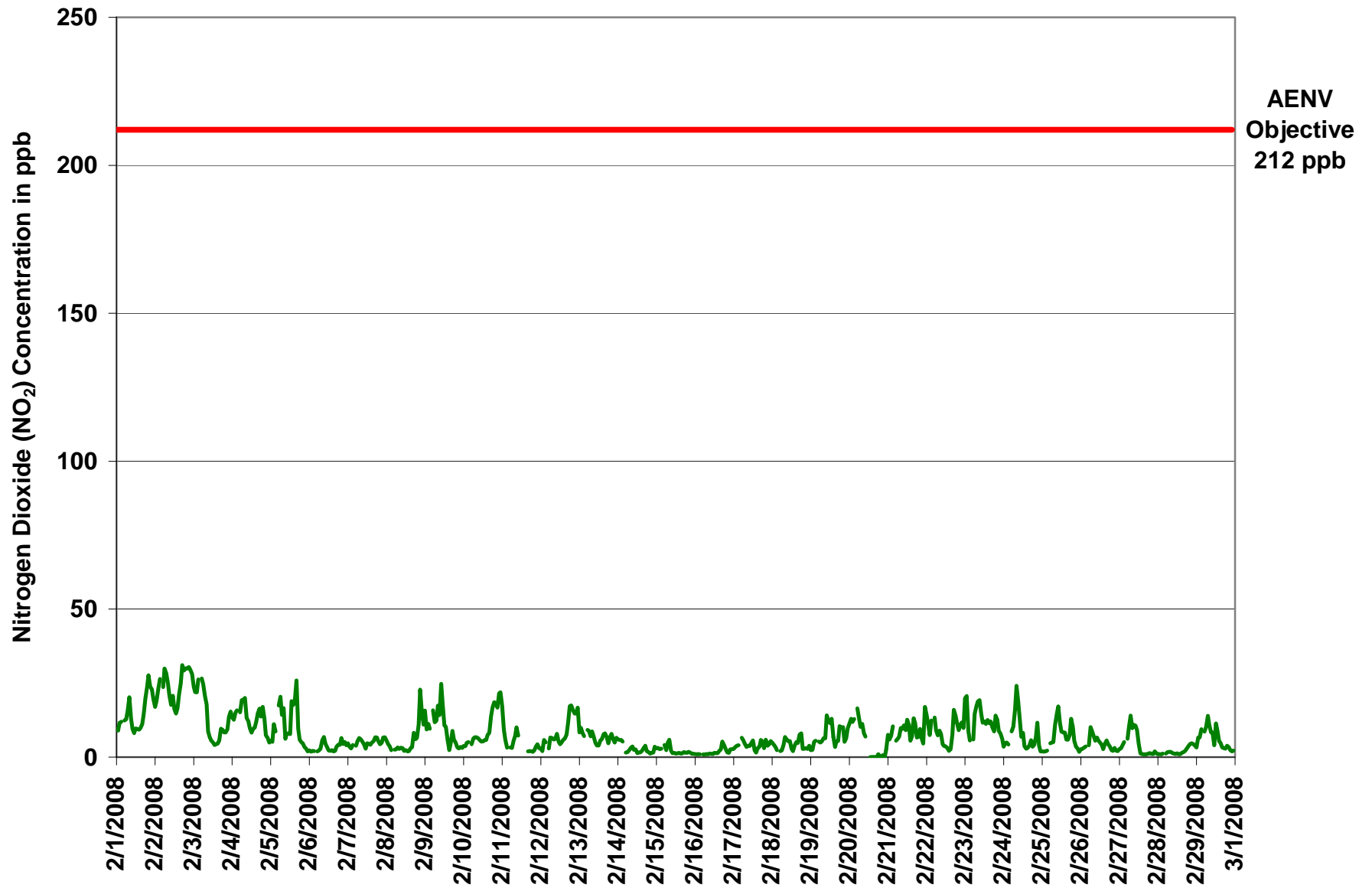


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

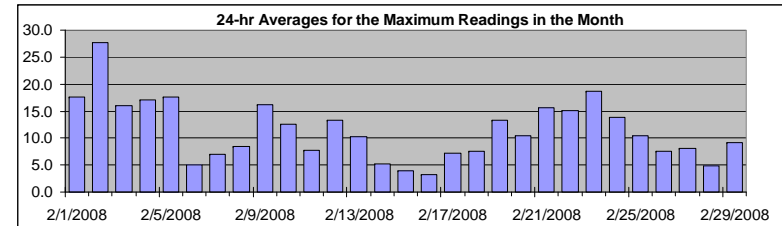
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	48.9	ppb	21-Feb	23:00 0:00
Maximum 24-hr Value:	27.7	ppb	2-Feb	



AIC Time:	29 hrs	Operational Time:	660 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.3	30.1	15.0	8.9	4.9	2.5	1.2	11.4 ppb	8.9 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-Feb-08	11	11	15	14	A	14	14	23	23	17	12	10	11	11	11	20	19	24	29	30	28	25	24	17.6	30.5	
2-Feb-08	20	24	26	29	A	34	32	29	28	27	20	27	19	18	19	26	28	45	31	31	31	31	32	31	27.7	44.5
3-Feb-08	30	27	24	29	A	28	30	26	24	12	8	7	6	5	7	5	7	15	14	12	12	11	17	17	16.0	30.4
4-Feb-08	16	14	28	24	A	18	29	28	28	17	14	12	9	12	14	13	19	20	16	26	17	10	8	6	17.0	28.9
5-Feb-08	20	15	23	12	A	21	34	26	26	9	11	12	14	32	23	29	39	26	7	6	6	4	7	3	17.5	39.0
6-Feb-08	3	2	3	3	A	3	4	6	12	11	6	6	3	4	3	3	3	5	5	5	11	7	6	5	5.1	11.7
7-Feb-08	8	5	4	5	A	5	7	8	8	7	7	4	6	5	6	6	6	8	8	9	15	10	10	8	7.0	15.3
8-Feb-08	7	6	5	3	A	3	4	5	5	5	5	3	4	3	3	5	6	10	8	12	14	32	27	21	8.4	32.5
9-Feb-08	31	16	19	22	A	29	26	21	31	24	42	23	15	12	10	3	7	11	7	6	5	4	4	4	16.1	42.0
10-Feb-08	5	4	9	7	A	6	9	9	10	8	7	6	7	8	8	9	9	19	24	22	28	21	27	30	12.5	30.5
11-Feb-08	19	18	7	5	A	5	7	11	15	13	10	C	C	C	C	C	3	4	4	3	3	5	7	5	7.8	18.6
12-Feb-08	4	3	10	11	A	4	16	13	8	9	13	10	5	7	7	8	10	14	30	23	21	33	17	31	13.4	32.9
13-Feb-08	11	18	14	12	A	12	11	10	14	12	6	4	5	10	11	10	10	9	7	11	15	9	7	9	10.3	17.9
14-Feb-08	7	6	7	6	A	3	3	5	5	6	6	6	3	3	3	3	15	10	4	6	3	4	3	5	5.3	14.5
15-Feb-08	5	5	4	4	A	9	3	11	9	5	3	3	2	2	3	2	2	3	3	4	4	4	2	2	4.0	11.0
16-Feb-08	2	1	3	2	A	1	1	2	2	3	2	2	3	3	3	3	4	11	8	5	3	3	5	3	3.2	10.9
17-Feb-08	4	5	5	5	A	8	7	8	5	6	5	11	8	7	3	10	6	9	13	7	12	9	7	8	7.3	13.0
18-Feb-08	6	6	5	3	A	3	3	6	10	10	8	8	4	3	7	10	10	17	16	6	7	5	10	10	7.5	16.8
19-Feb-08	3	3	9	7	A	6	7	10	9	14	21	38	36	25	13	6	10	9	16	17	14	7	8	20	13.3	38.0
20-Feb-08	16	23	14	15	A	34	15	13	14	10	9	M	M	5	0	0	0	2	5	4	5	6	1	26	10.4	33.8
21-Feb-08	26	10	9	27	A	8	14	8	15	14	13	10	16	15	9	9	17	15	13	15	21	15	9	49	15.5	48.9
22-Feb-08	40	15	9	16	A	15	13	8	13	10	6	5	8	5	3	5	15	37	32	18	16	21	20	17	15.1	39.9
23-Feb-08	28	46	13	13	A	18	20	25	24	26	21	22	18	15	15	15	19	14	10	19	17	12	13	8	18.7	45.6
24-Feb-08	4	6	7	6	A	25	35	32	36	22	16	15	14	11	3	4	7	8	6	7	11	26	12	3	13.8	36.1
25-Feb-08	3	2	3	3	A	8	6	9	13	34	27	15	11	12	10	9	9	9	20	13	9	6	5	3	10.4	34.5
26-Feb-08	7	4	5	13	A	6	14	11	10	9	14	9	7	9	4	14	7	6	4	4	3	6	3	3	7.5	14.0
27-Feb-08	3	4	6	7	A	14	16	22	15	27	21	13	8	2	2	2	2	2	3	3	3	3	5	3	8.0	27.0
28-Feb-08	2	2	1	4	A	2	4	3	4	3	2	2	13	3	2	7	3	6	12	12	8	7	5	5	4.9	13.3
29-Feb-08	5	9	10	14	A	11	15	27	14	13	13	6	14	16	7	6	4	6	4	5	4	3	3	3	9.2	27.4
Hourly Avg	11.9	10.6	10.1	11.0	N	12.1	13.7	14.3	14.8	13.1	11.9	10.7	9.9	9.3	7.4	8.3	10.2	12.6	12.1	11.7	12.0	11.7	10.5	12.4		
Hourly Max	39.9	45.6	27.5	29.5	0.0	34.1	35.2	31.7	36.1	34.5	42.0	38.0	35.6	32.3	23.3	29.1	39.0	44.5	31.9	31.4	31.4	32.9	32.5	48.9		

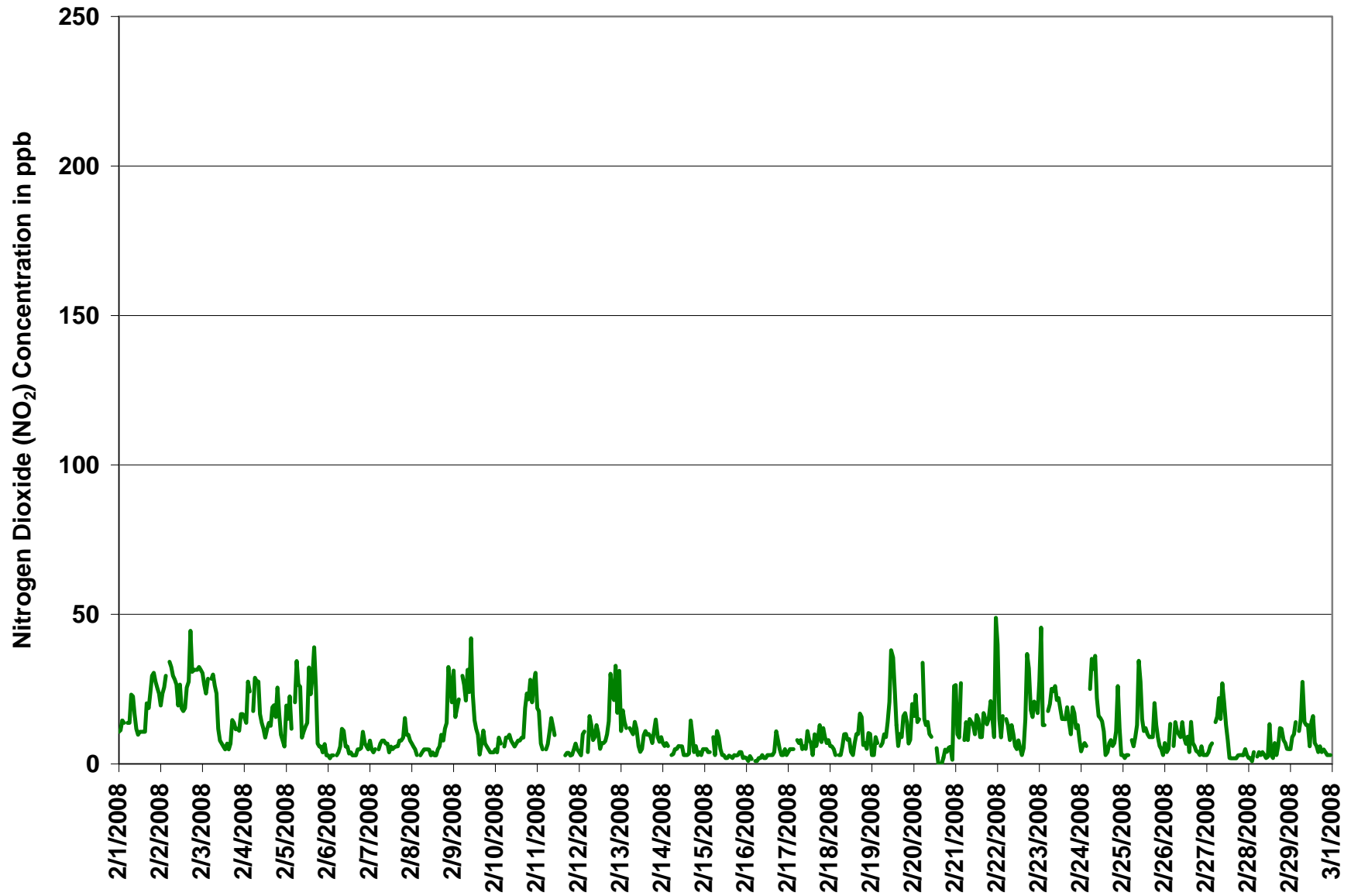
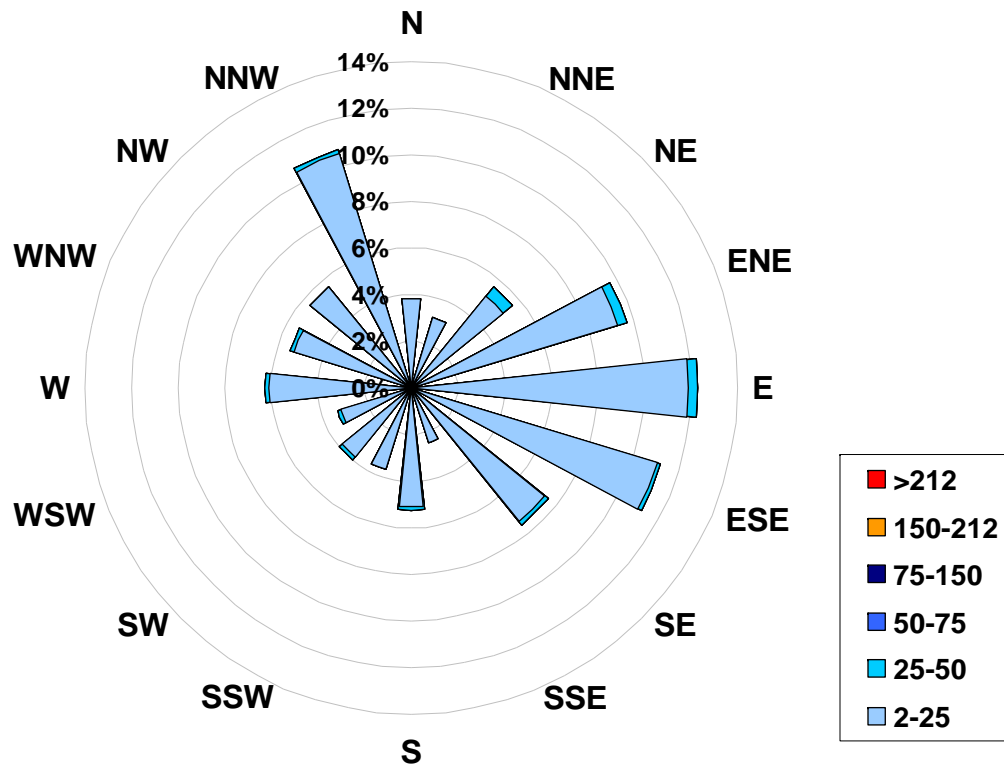


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		646
25	to 50		14
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			660

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

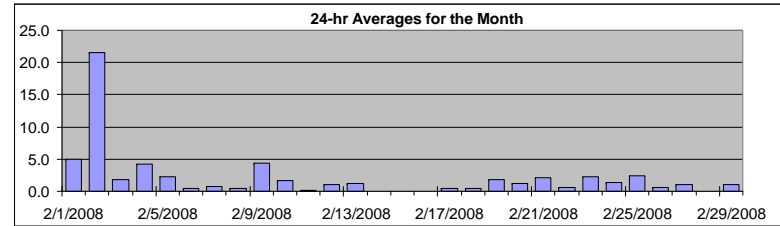
Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	47.1	ppb	2-Feb	11:00 12:00
Maximum 24-hr Average:	21.6	ppb	2-Feb	

AIC Time:	29 hrs	Operational Time:	660 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	31.3	10.1	1.5	0.0	0.0	0.0	0.0	2.1 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-Feb-08	0	0	0	0	A	0	0	1	2	6	9	12	18	17	14	11	8	3	1	3	7	2	1	0	4.9	17.7
2-Feb-08	0	0	2	13	A	10	45	42	26	25	29	47	34	30	30	32	31	39	19	12	8	5	13	5	21.6	47.1
3-Feb-08	2	0	0	1	A	4	4	1	1	2	3	4	5	4	4	3	2	1	0	0	0	0	0	0	1.9	4.9
4-Feb-08	0	0	2	0	A	0	3	4	4	6	9	8	8	13	14	14	9	2	0	0	0	0	0	0	4.2	13.6
5-Feb-08	0	0	0	0	A	0	2	0	1	0	1	2	2	15	8	8	12	1	0	0	0	0	0	0	2.3	14.8
6-Feb-08	0	0	0	0	A	0	0	0	0	1	2	2	1	1	2	1	0	0	0	0	0	0	0	0	0.5	2.4
7-Feb-08	0	0	0	0	A	0	0	0	0	1	2	2	3	3	2	2	1	0	0	0	1	0	0	0	0.8	3.5
8-Feb-08	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	1.4
9-Feb-08	0	0	0	0	A	0	0	0	3	7	35	26	12	12	5	1	1	1	0	0	0	0	0	0	4.4	34.8
10-Feb-08	0	0	0	0	A	0	0	0	0	2	3	3	4	5	4	5	4	2	0	0	2	0	1	1	1.6	5.2
11-Feb-08	0	0	0	0	A	0	0	0	0	1	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0.1	0.9
12-Feb-08	0	0	0	0	A	0	0	0	0	1	3	3	3	3	3	3	2	1	0	0	0	2	0	1	1.1	3.5
13-Feb-08	0	1	0	0	A	0	0	0	1	2	2	3	2	4	4	5	4	1	0	0	0	0	0	0	1.3	5.1
14-Feb-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	0.3
15-Feb-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	0.1
16-Feb-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
17-Feb-08	0	0	0	0	A	0	0	0	0	1	1	2	3	1	0	1	1	0	0	0	0	0	0	0	0.4	3.0
18-Feb-08	0	0	0	0	A	0	0	0	0	1	2	2	1	0	1	1	1	0	0	0	0	0	0	0	0.4	2.4
19-Feb-08	0	0	0	0	A	0	0	0	0	1	6	9	9	9	3	1	1	0	0	0	0	0	0	0	1.8	9.4
20-Feb-08	0	0	0	0	A	0	0	0	0	2	3	M	M	14	5	1	0	1	0	0	0	0	0	0	1.3	14.3
21-Feb-08	0	0	0	0	A	0	0	0	0	3	7	7	11	9	3	3	4	1	0	0	0	0	0	1	2.2	11.2
22-Feb-08	0	0	0	0	A	0	0	0	1	2	2	2	2	1	0	0	1	2	0	0	0	0	0	0	0.6	2.0
23-Feb-08	0	1	0	0	A	0	0	0	2	8	8	6	6	6	6	4	3	1	0	0	0	0	0	0	2.2	8.2
24-Feb-08	0	0	0	0	A	0	0	0	5	10	8	3	4	0	0	0	0	0	0	0	0	0	0	0	1.3	9.6
25-Feb-08	0	0	0	0	A	0	0	0	1	9	14	8	6	6	6	3	1	1	0	0	0	0	0	0	2.4	13.7
26-Feb-08	0	0	0	0	A	0	0	0	0	1	3	2	2	2	1	1	1	0	0	0	0	0	0	0	0.6	3.0
27-Feb-08	0	0	0	0	A	0	0	0	1	5	7	9	3	0	0	0	0	0	0	0	0	0	0	0	1.1	9.2
28-Feb-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	0.4
29-Feb-08	0	0	0	0	A	0	0	0	1	3	4	2	8	5	1	1	0	0	0	0	0	0	0	0	1.1	8.3
Hourly Avg	0.1	0.1	0.1	0.5	N	0.5	1.9	1.7	1.7	3.4	5.7	6.2	5.6	5.8	4.3	3.7	3.0	2.0	0.7	0.5	0.6	0.3	0.5	0.3		
Hourly Max	1.7	1.4	1.7	12.8	0.0	10.0	45.4	41.7	25.9	25.1	34.8	47.1	33.5	29.5	30.4	31.6	31.1	38.8	19.0	12.0	8.1	5.1	13.1	4.9		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

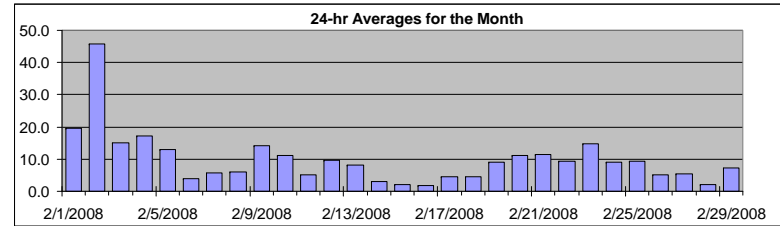
Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	75.7	ppb	2-Feb	6:00 7:00
Maximum 24-hr Average:	45.8	ppb	2-Feb	

AIC Time:	29 hrs	Operational Time:	660 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.0	27.3	12.3	6.5	3.3	1.4	1.0	9.8 ppb	6.5 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		
1-Feb-08	9	9	12	12	A	12	13	16	23	19	19	20	28	27	23	21	19	18	21	27	35	26	24	20	19.6	34.5
2-Feb-08	17	19	25	39	A	34	76	70	51	46	47	68	50	45	47	53	56	70	48	42	38	35	43	33	45.8	75.7
3-Feb-08	25	22	22	28	A	30	29	22	19	11	10	10	10	9	9	8	8	10	9	8	9	9	13	15	15.1	30.3
4-Feb-08	13	12	17	16	A	16	23	24	24	19	22	18	17	23	24	26	24	19	14	17	13	7	6	5	17.3	25.8
5-Feb-08	5	5	11	9	A	18	23	14	18	6	9	10	10	34	26	27	38	10	6	5	5	3	3	2	12.9	37.9
6-Feb-08	2	2	2	2	A	2	2	3	6	8	7	6	4	3	4	3	3	4	4	4	6	4	5	4	3.9	8.4
7-Feb-08	5	3	3	4	A	4	5	6	6	6	6	5	8	7	6	7	7	7	6	5	5	5	7	7	5.7	8.3
8-Feb-08	5	4	3	2	A	2	3	3	3	4	5	3	4	3	3	4	4	9	6	7	11	23	15	11	6.0	23.0
9-Feb-08	16	9	11	9	A	16	12	12	20	21	60	44	23	22	11	3	6	10	6	5	3	3	3	3	14.3	59.9
10-Feb-08	3	3	5	5	A	4	6	7	7	8	9	9	10	11	10	13	12	16	17	19	20	17	23	23	11.1	23.1
11-Feb-08	17	9	6	3	A	3	3	5	7	11	8	C	C	C	C	C	2	2	2	2	2	4	4	3	5.2	17.1
12-Feb-08	3	2	6	5	A	3	7	6	6	7	11	8	7	9	9	10	10	12	18	17	16	17	15	18	9.6	17.8
13-Feb-08	8	11	8	7	A	9	9	7	10	9	7	7	6	10	11	13	12	8	4	7	8	6	5	6	8.1	12.9
14-Feb-08	6	6	6	5	A	1	2	2	3	4	3	3	1	2	2	2	3	4	2	2	1	1	1	3	2.9	6.0
15-Feb-08	3	3	3	3	A	4	2	5	6	2	2	2	1	2	2	1	1	2	1	1	2	1	1	1	2.2	6.0
16-Feb-08	1	1	1	1	A	1	1	1	1	1	1	1	2	2	2	3	3	6	4	2	1	1	3	3	1.8	5.5
17-Feb-08	3	3	4	4	A	6	6	4	3	5	5	7	9	3	2	4	4	6	5	3	6	4	4	5	4.5	8.7
18-Feb-08	5	4	3	2	A	2	2	4	7	7	8	4	3	5	6	5	8	8	3	3	3	3	4	4	4.6	8.0
19-Feb-08	2	2	5	5	A	5	5	5	6	8	21	22	21	22	10	4	6	6	10	10	10	5	6	9	9.0	22.3
20-Feb-08	11	13	12	13	A	17	13	10	12	10	10	M	M	30	14	5	3	9	12	10	8	8	6	8	11.1	30.3
21-Feb-08	12	9	9	11	A	6	6	7	11	13	18	16	24	20	8	10	17	13	7	7	9	6	5	18	11.3	24.0
22-Feb-08	14	11	7	12	A	13	9	7	10	10	6	6	6	4	3	3	9	18	14	11	9	11	12	10	9.4	18.1
23-Feb-08	20	22	9	6	A	6	14	17	20	27	23	18	18	17	19	16	15	11	9	14	13	9	8	6	14.6	27.2
24-Feb-08	3	5	5	4	A	9	10	16	29	28	21	10	12	5	3	4	4	6	3	4	7	12	4	2	8.9	28.8
25-Feb-08	2	2	2	2	A	5	5	5	12	23	31	20	15	15	14	9	8	8	13	10	5	3	3	2	9.3	30.9
26-Feb-08	3	3	3	3	A	4	10	9	7	7	10	8	7	7	4	6	6	4	3	2	2	3	2	2	5.0	10.0
27-Feb-08	2	3	4	5	A	6	10	14	11	16	18	18	7	1	1	1	1	1	1	1	1	1	2	1	5.5	18.5
28-Feb-08	1	1	1	1	A	1	2	2	2	2	1	1	2	1	1	2	2	2	3	4	4	4	4	4	2.1	4.5
29-Feb-08	3	7	7	9	A	9	10	14	12	11	12	6	20	13	7	6	3	3	3	4	3	2	2	2	7.3	19.8

Hourly Avg	7.6	7.0	7.2	7.8	N	8.5	10.9	11.0	12.1	12.1	14.1	13.1	12.1	12.5	10.0	9.6	10.1	10.4	9.0	8.7	8.8	8.1	7.9	7.9
Hourly Max	25.4	22.2	24.7	39.3	0.0	33.7	75.7	70.4	51.1	46.3	59.9	68.3	50.2	44.6	47.0	53.2	56.4	70.2	48.5	42.1	38.1	35.4	42.8	33.1

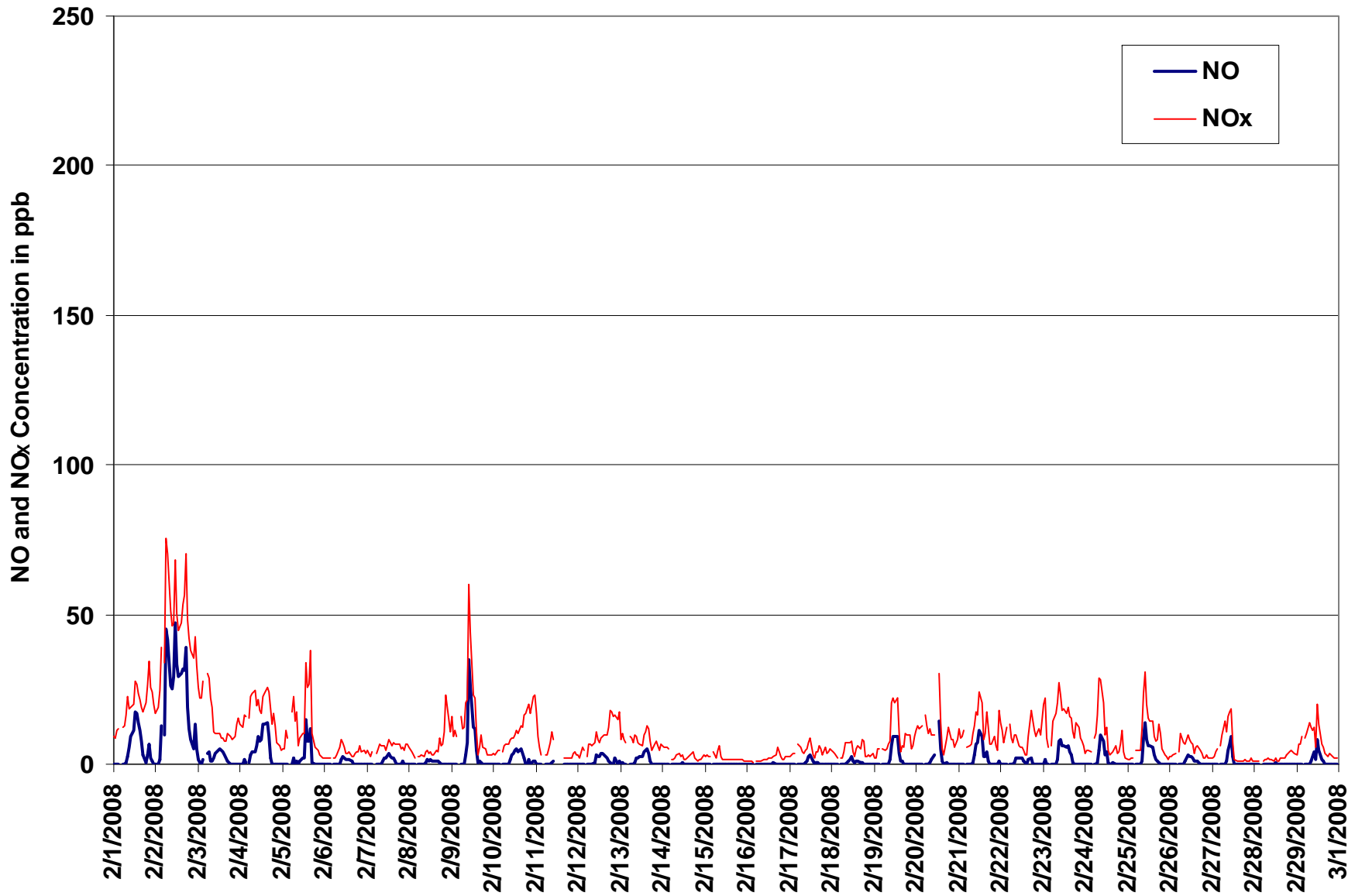


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

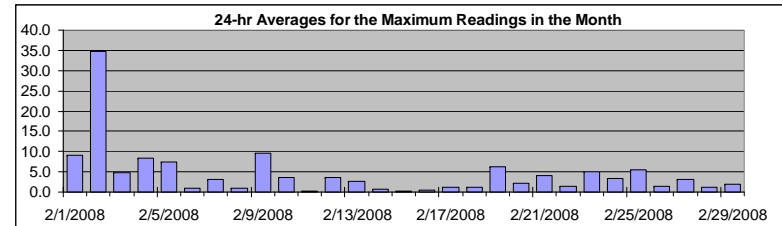
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	87.7	ppb	2-Feb	17:00 18:00
Maximum 24-hr Value:	34.8	ppb	2-Feb	



AIC Time:	29 hrs	Operational Time:	660 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.5	20.4	3.9	0.9	0.0	0.0	0.0	4.5 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-Feb-08	0	0	0	0	A	0	0	7	8	9	11	16	20	21	17	14	28	11	4	14	20	6	6	1	9.1	27.7
2-Feb-08	0	2	6	25	A	46	64	48	42	42	40	67	40	36	34	41	59	88	28	18	17	10	32	17	34.8	87.7
3-Feb-08	15	3	0	5	A	11	23	5	2	4	5	6	6	6	8	4	3	2	1	0	2	1	0	0	4.7	22.8
4-Feb-08	0	0	13	4	A	2	24	18	16	13	11	10	10	17	20	16	15	8	0	1	0	0	0	0	8.5	24.0
5-Feb-08	0	0	2	0	A	1	16	3	6	1	1	4	6	37	15	19	42	7	0	0	0	0	14	0	7.5	42.3
6-Feb-08	0	0	0	0	A	0	0	0	1	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	1.0	3.9
7-Feb-08	0	0	0	0	A	0	0	0	0	2	3	2	5	4	3	3	2	1	1	0	45	0	0	0	3.0	44.8
8-Feb-08	0	0	0	0	A	0	0	0	0	1	2	2	3	2	2	3	2	2	0	0	0	2	1	0	0.9	2.9
9-Feb-08	3	1	0	1	A	1	2	1	16	35	72	37	18	15	11	2	1	3	0	0	0	0	0	0	9.5	72.1
10-Feb-08	0	0	0	0	A	0	0	0	1	3	4	4	7	8	7	5	4	4	3	15	1	4	7	7	3.6	15.2
11-Feb-08	0	0	0	0	A	0	0	0	0	2	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0.2	1.9
12-Feb-08	0	0	0	0	A	0	1	1	0	2	9	7	4	5	4	5	4	2	7	3	2	16	0	9	3.5	15.7
13-Feb-08	0	5	2	0	A	0	0	0	3	3	4	3	3	9	10	8	7	3	0	0	0	0	0	0	2.6	9.9
14-Feb-08	0	0	0	0	A	0	0	0	0	1	1	2	1	1	1	1	7	1	0	1	0	0	0	0	0.7	7.4
15-Feb-08	0	0	0	0	A	0	0	0	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0.3	1.0
16-Feb-08	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	1.2
17-Feb-08	0	0	0	0	A	0	0	0	0	1	2	8	5	6	1	4	1	1	0	0	0	0	0	0	1.2	7.9
18-Feb-08	0	0	0	0	A	0	0	0	1	4	2	6	4	1	3	2	2	2	0	0	0	0	0	0	1.2	6.0
19-Feb-08	0	0	0	0	A	0	0	0	1	6	13	47	40	24	8	2	2	1	0	0	0	0	0	0	6.2	47.1
20-Feb-08	0	0	0	0	A	2	0	1	1	2	4	M	M	21	10	2	0	1	0	0	1	1	0	0	2.2	21.3
21-Feb-08	0	0	0	1	A	0	0	0	2	7	9	8	17	16	7	4	7	3	0	0	1	0	0	12	4.0	16.8
22-Feb-08	1	0	0	0	A	0	0	0	2	3	2	3	4	3	1	1	5	6	4	0	0	0	0	0	1.5	5.9
23-Feb-08	0	17	0	0	A	0	0	2	3	16	16	16	13	8	8	6	8	2	0	0	0	0	0	0	5.0	16.7
24-Feb-08	0	0	0	0	A	1	3	3	14	17	11	10	10	5	0	1	1	1	0	0	0	0	0	0	3.3	16.7
25-Feb-08	0	0	0	0	A	0	0	0	2	37	34	14	10	10	8	6	3	2	4	0	0	0	0	0	5.6	36.9
26-Feb-08	0	0	0	0	A	0	0	0	1	2	8	5	4	4	2	5	1	1	0	0	0	0	0	0	1.4	7.9
27-Feb-08	0	0	0	0	A	0	0	1	3	23	20	17	7	1	1	0	1	0	0	0	0	0	0	0	3.2	23.3
28-Feb-08	0	0	0	0	A	0	0	0	0	1	1	1	14	2	1	3	1	1	1	0	0	0	0	0	1.1	13.9
29-Feb-08	0	0	0	0	A	0	0	2	2	6	7	3	12	10	2	1	0	0	0	0	0	0	0	0	1.9	11.9
Hourly Avg	0.6	0.9	0.8	1.2	N	2.2	4.6	3.1	4.4	8.5	10.3	11.2	9.9	9.8	6.7	5.7	7.1	5.2	1.8	1.4	3.5	1.2	1.9	1.6		
Hourly Max	14.5	16.7	12.6	25.3	0.0	46.1	64.3	47.7	42.5	41.9	72.1	67.2	39.9	36.7	34.1	40.6	59.1	87.7	28.2	18.5	44.8	15.7	32.1	16.5		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

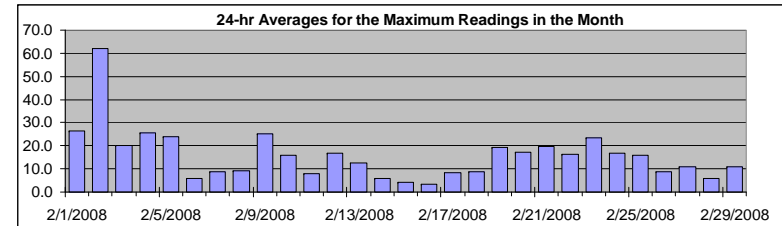
Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	129.6	ppb	2-Feb	17:00 18:00
Maximum 24-hr Value:	62.0	ppb	2-Feb	

AIC Time:	29 hrs	Operational Time:	660 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	79.4	48.8	20.0	10.7	5.0	2.9	1.9	15.8 ppb	10.7 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-Feb-08	11	12	15	14	A	14	15	29	30	21	21	25	30	31	27	25	44	29	28	43	50	33	31	24	26.3	49.7
2-Feb-08	20	25	31	53	A	79	97	77	70	67	60	94	59	54	52	66	86	130	58	49	47	40	63	47	62.0	129.6
3-Feb-08	45	29	23	32	A	38	52	30	25	13	12	12	11	11	15	9	10	17	14	12	13	12	17	16	20.2	51.5
4-Feb-08	16	14	40	28	A	19	53	46	44	29	24	22	19	28	34	28	29	27	16	26	17	10	8	6	25.4	53.3
5-Feb-08	20	15	24	12	A	22	50	29	31	9	12	16	20	64	38	48	81	32	7	6	6	4	3	3	23.9	80.8
6-Feb-08	3	2	3	3	A	3	4	6	13	14	10	9	6	6	5	3	3	5	5	5	11	6	6	5	5.8	14.5
7-Feb-08	8	5	4	5	A	5	7	8	8	9	10	6	12	9	8	8	7	8	8	9	34	9	10	8	8.7	34.2
8-Feb-08	7	6	4	3	A	3	4	5	5	6	7	5	6	4	5	7	8	12	8	12	14	33	26	21	9.0	33.3
9-Feb-08	33	16	19	22	A	30	27	21	47	52	111	60	33	26	22	5	9	14	7	6	5	4	4	3	25.0	110.6
10-Feb-08	5	4	9	6	A	6	9	9	10	11	10	10	14	16	15	15	14	21	26	22	44	21	31	37	15.7	43.5
11-Feb-08	19	18	7	5	A	5	7	11	15	14	11	C	C	C	C	C	4	4	4	3	3	5	7	5	7.9	18.6
12-Feb-08	4	3	10	10	A	4	17	13	9	11	22	17	9	11	11	12	13	17	37	24	23	49	17	39	16.6	48.5
13-Feb-08	11	22	16	12	A	12	11	10	17	14	8	7	7	19	21	18	17	12	7	11	15	9	7	9	12.7	22.5
14-Feb-08	6	6	7	6	A	3	3	5	5	7	7	8	4	4	3	4	22	11	4	7	3	4	3	5	6.0	22.1
15-Feb-08	5	5	4	4	A	9	3	11	10	5	3	4	3	3	3	2	3	3	3	4	4	4	2	3	4.2	11.0
16-Feb-08	2	1	3	2	A	1	2	2	2	3	2	3	4	4	4	4	12	8	5	3	3	5	3	3	3.5	11.7
17-Feb-08	4	5	5	5	A	8	7	8	5	7	7	19	13	13	4	14	8	9	13	7	12	9	7	8	8.5	18.7
18-Feb-08	6	6	5	3	A	3	3	6	11	14	10	15	9	4	11	12	12	19	16	6	7	5	10	10	8.7	18.7
19-Feb-08	3	3	9	6	A	6	6	10	9	20	34	85	74	49	21	9	12	10	16	17	14	6	8	20	19.4	85.0
20-Feb-08	16	23	14	15	A	35	15	13	15	12	13	M	M	41	22	8	4	15	16	14	14	15	8	31	17.1	41.2
21-Feb-08	31	13	11	28	A	7	14	8	17	21	21	18	33	30	16	12	23	17	14	15	21	15	9	57	19.6	56.9
22-Feb-08	40	15	8	15	A	15	13	8	15	12	8	7	11	9	4	6	20	43	36	18	16	21	20	16	16.3	42.8
23-Feb-08	27	62	13	13	A	18	20	27	26	41	37	38	32	23	23	20	28	15	10	18	17	12	13	8	23.5	62.0
24-Feb-08	4	6	7	6	A	25	38	34	49	38	27	25	25	16	4	5	8	8	6	7	11	26	12	3	16.9	49.1
25-Feb-08	3	2	3	3	A	8	6	9	14	71	62	29	21	22	18	15	11	11	24	12	9	6	5	3	16.0	71.2
26-Feb-08	7	4	5	13	A	6	14	11	11	11	22	14	10	13	5	18	8	7	4	4	3	6	3	2	8.7	22.0
27-Feb-08	3	4	6	7	A	14	16	22	18	48	41	29	15	3	3	2	2	2	3	3	3	3	5	2	11.0	48.1
28-Feb-08	2	2	1	4	A	2	4	3	4	4	3	3	27	5	3	11	4	6	13	12	8	7	5	5	6.0	27.5
29-Feb-08	4	9	9	14	A	11	15	29	16	19	20	8	25	26	9	7	4	6	4	5	4	3	3	3	11.0	29.2
Hourly Avg	12.5	11.6	10.8	12.0	N	14.1	18.3	17.2	18.9	20.8	21.9	21.8	19.6	19.4	14.4	14.0	17.1	17.9	14.2	13.1	14.7	13.1	12.0	13.8		
Hourly Max	44.9	62.0	40.2	53.2	0.0	78.5	96.9	77.1	70.4	71.2	110.6	94.1	73.5	63.5	51.9	66.4	86.4	129.6	57.9	49.0	49.7	48.5	63.5	56.9		

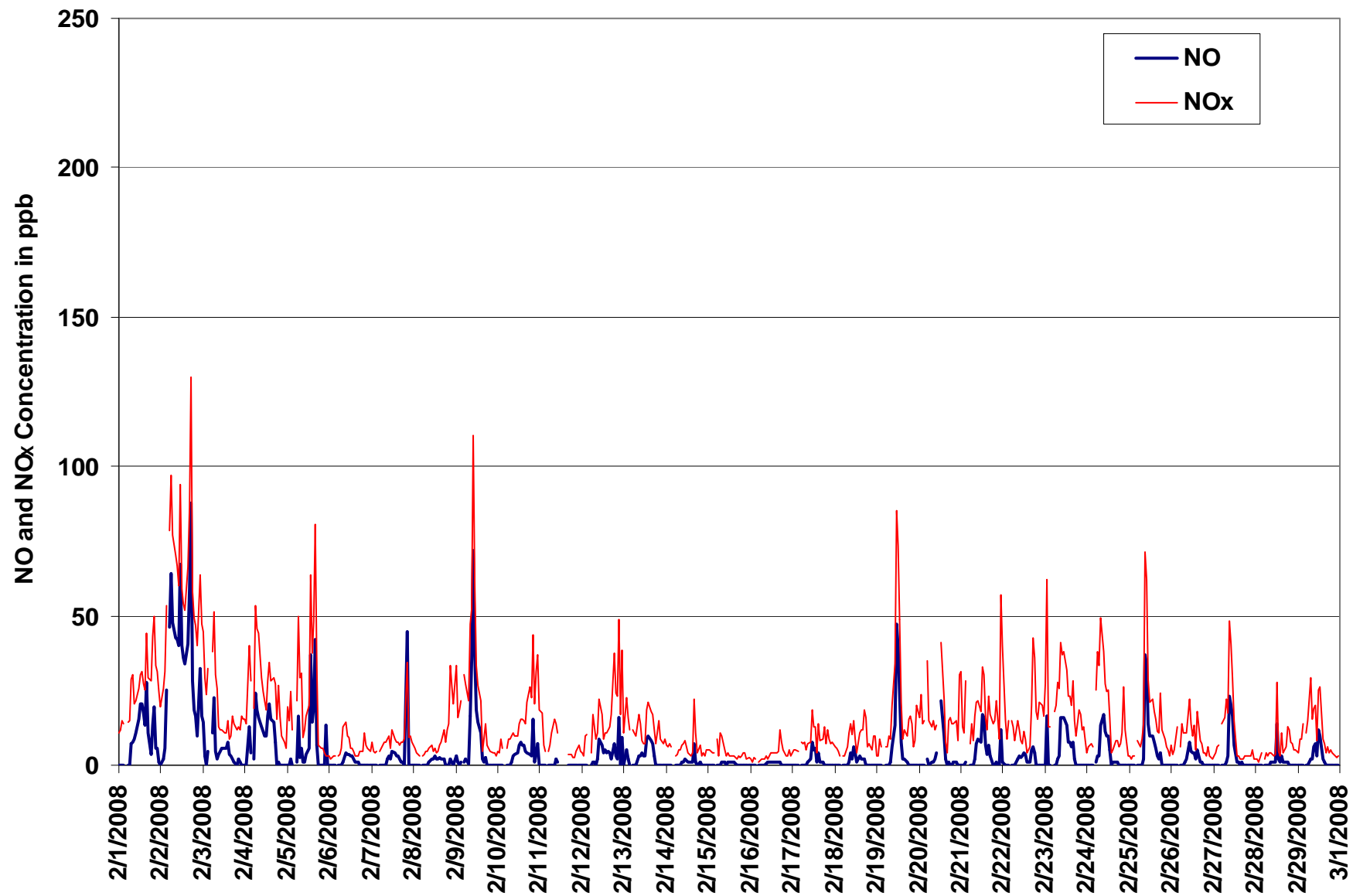


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

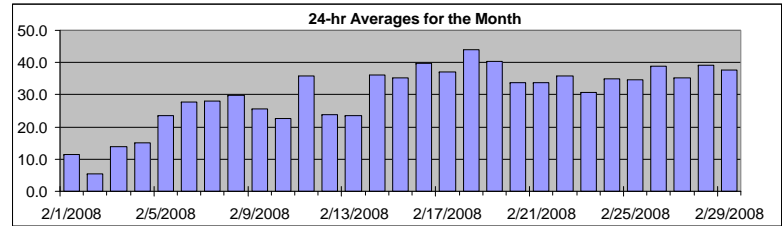
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	49.3	ppb	18-Feb	13:00 14:00
Maximum 24-hr Average:	43.9	ppb	18-Feb	



AIC Time:	30 hrs	Operational Time:	663 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.8	43.6	38.5	31.6	24.2	7.9	1.8	30.1 ppb	31.6 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		
1-Feb-08	17	17	14	13	A	12	12	9	5	12	16	17	16	17	17	17	15	11	7	4	2	3	4	6	11.4	17.4
2-Feb-08	8	6	3	2	A	2	2	1	2	6	9	10	13	14	15	12	8	4	1	1	2	2	2	3	5.5	14.6
3-Feb-08	6	6	6	3	A	2	4	7	8	17	18	20	21	23	23	23	19	19	19	18	16	12	9	14.0	23.4	
4-Feb-08	10	11	9	8	A	8	5	5	4	10	12	14	16	16	17	15	14	16	20	19	23	30	31	33	15.0	33.0
5-Feb-08	32	32	23	28	A	17	14	23	21	35	32	32	32	20	21	20	15	21	18	18	19	21	22	23	23.5	34.8
6-Feb-08	24	26	27	28	A	29	30	30	27	26	28	29	30	30	29	29	29	28	28	28	25	27	26	28	27.8	30.3
7-Feb-08	27	28	29	28	A	28	27	26	26	27	29	30	29	29	29	28	27	26	27	29	29	29	27	28	27.9	30.3
8-Feb-08	28	30	31	33	A	32	32	31	32	32	32	33	33	34	33	33	33	28	30	29	25	15	21	25	29.7	33.5
9-Feb-08	21	26	24	25	A	20	23	21	17	21	16	20	26	26	30	34	31	26	28	29	32	32	31	31	25.5	33.6
10-Feb-08	31	31	30	29	A	29	27	26	26	25	26	26	26	26	27	25	24	18	15	13	13	13	8	9	22.7	31.4
11-Feb-08	15	29	35	40	A	40	41	39	36	34	36	34	34	35	36	C	C	C	A	41	40	39	39	40	36.0	40.9
12-Feb-08	39	40	31	28	A	31	26	24	24	24	23	25	26	25	25	25	23	19	14	13	14	16	15	16	23.8	39.7
13-Feb-08	25	21	21	21	A	18	19	20	18	20	23	24	25	24	24	23	23	25	28	26	24	27	30	28	23.4	30.2
14-Feb-08	29	29	29	30	A	38	38	37	37	37	39	38	39	38	39	38	37	36	37	37	38	37	37	34	36.0	38.9
15-Feb-08	35	34	34	33	A	32	34	31	29	34	36	37	36	35	34	35	36	36	37	38	38	38	38	38	35.1	38.4
16-Feb-08	39	39	40	40	A	40	40	40	40	39	39	40	41	42	42	42	41	39	39	39	40	40	38	37	39.8	42.4
17-Feb-08	37	36	35	34	A	32	32	34	35	36	39	39	39	43	43	42	42	39	38	38	35	37	36	35	37.1	43.3
18-Feb-08	35	37	38	41	A	43	43	42	40	41	43	43	47	49	48	47	47	44	43	48	48	48	48	46	43.9	49.3
19-Feb-08	47	46	42	41	A	38	38	38	37	38	31	35	38	37	42	48	47	46	40	38	37	45	43	37	40.4	47.8
20-Feb-08	34	31	31	29	A	23	25	27	27	30	32	29	25	29	37	45	48	42	38	39	41	40	40	37	33.8	47.8
21-Feb-08	33	33	31	28	A	35	34	32	29	30	29	30	29	31	40	38	34	36	41	38	35	40	43	29	33.8	43.0
22-Feb-08	29	31	36	29	A	26	30	31	30	31	36	37	39	43	47	49	41	33	35	39	42	39	34	34	35.7	48.5
23-Feb-08	23	22	32	35	A	34	24	22	21	22	27	31	32	34	33	35	34	37	38	31	32	37	36	37	30.8	38.2
24-Feb-08	39	37	36	38	A	34	30	22	12	16	25	34	34	40	42	43	43	39	43	42	38	32	41	43	35.0	43.0
25-Feb-08	43	43	43	42	A	37	37	37	31	27	26	31	34	34	33	32	29	28	22	28	38	40	42	42	34.6	43.0
26-Feb-08	40	40	39	38	A	37	30	31	33	38	36	35	36	39	42	42	42	44	44	44	44	40	40	40	38.8	44.3
27-Feb-08	39	39	36	32	A	30	24	20	23	23	23	25	34	43	45	44	43	42	42	41	41	41	40	40	35.2	45.0
28-Feb-08	41	40	40	39	A	39	38	38	38	39	39	39	40	40	40	39	39	40	40	40	39	38	38	39	39.3	41.1
29-Feb-08	40	36	35	32	A	30	27	23	28	32	33	40	31	37	43	44	45	45	45	43	42	44	45	44	37.6	45.2
Hourly Avg	29.9	30.2	29.7	29.2	N	28.2	27.1	26.4	25.4	27.6	28.7	30.3	31.0	32.1	33.7	33.7	32.5	31.0	30.6	30.7	30.7	31.2	31.3	30.7		
Hourly Max	47.1	46.3	42.5	41.8	0.0	43.3	43.4	41.8	39.7	41.1	42.7	43.1	46.9	49.3	47.8	48.5	47.8	45.9	44.6	48.2	48.0	47.8	48.0	46.0		

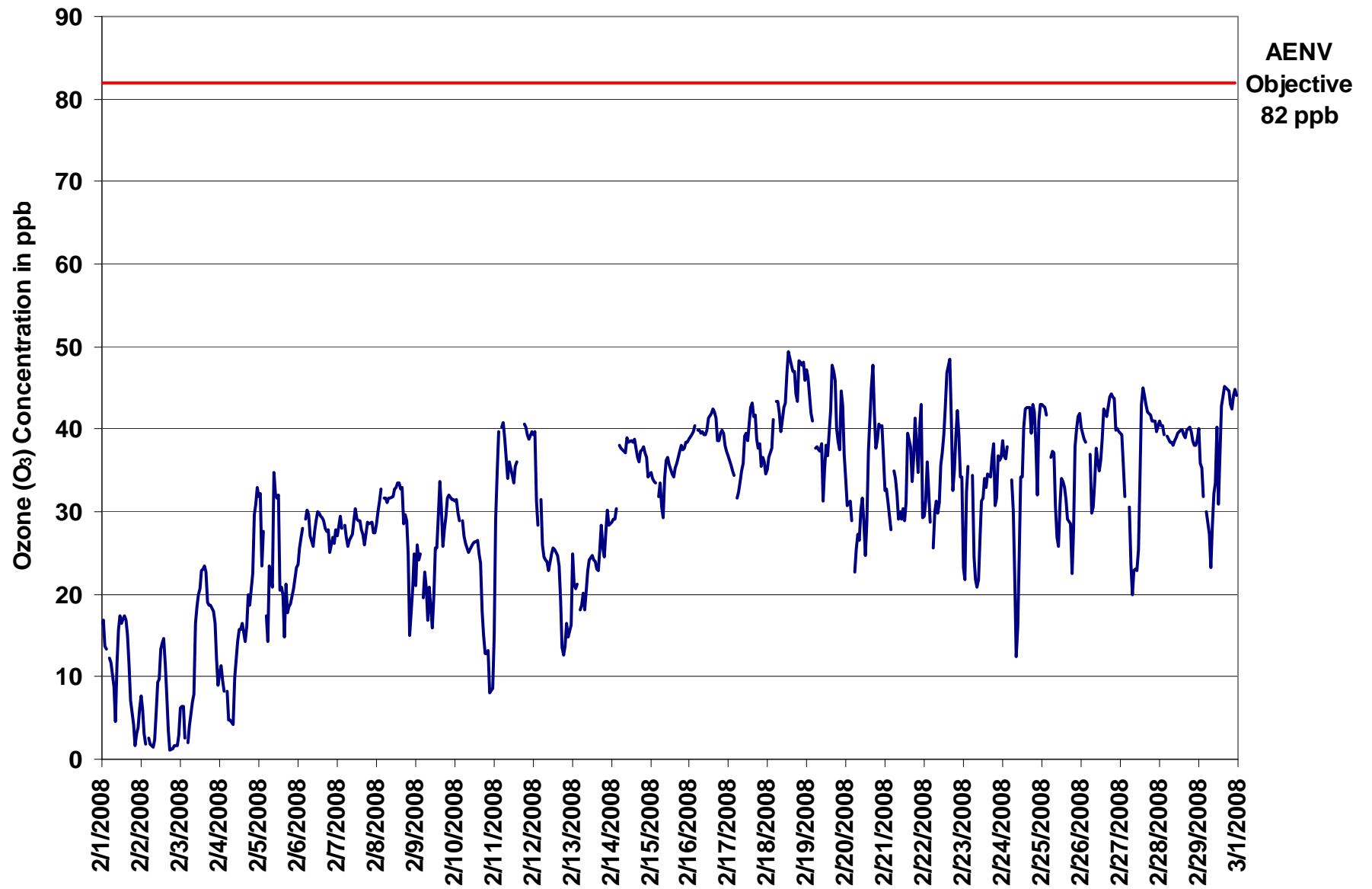


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

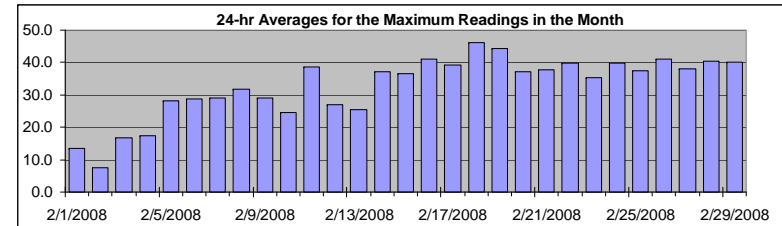
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	51.0	ppb	18-Feb	14:00 15:00
Maximum 24-hr Value:	46.0	ppb	18-Feb	



AIC Time:	30 hrs	Operational Time:	663 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	50.1	46.0	40.6	34.3	27.4	10.6	3.7	32.7 ppb	34.3 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-Feb-08	17	18	16	14	A	13	14	12	8	14	17	18	17	18	18	17	17	13	11	7	5	7	5	8	13.3	18.4
2-Feb-08	9	8	5	3	A	5	4	2	5	8	11	13	15	15	16	14	9	9	2	2	3	3	2	6	7.3	16.2
3-Feb-08	10	10	10	5	A	8	12	12	14	19	19	21	22	23	24	24	24	23	22	20	19	17	17	10	16.8	23.9
4-Feb-08	13	12	13	10	A	11	8	8	8	11	13	16	16	18	18	16	16	22	22	25	27	31	32	34	17.4	34.3
5-Feb-08	35	34	30	31	A	20	25	35	35	36	33	33	33	32	26	24	23	32	19	19	20	22	23	24	28.0	36.2
6-Feb-08	25	27	27	28	A	30	31	31	29	28	29	30	31	31	30	30	30	29	28	28	27	28	27	29	28.8	30.8
7-Feb-08	28	29	30	30	A	29	28	27	28	29	30	31	30	29	29	29	28	27	29	30	32	32	28	29	29.2	31.8
8-Feb-08	29	31	32	34	A	32	32	32	33	33	33	33	34	34	34	34	34	31	30	31	27	26	29	30	31.6	34.3
9-Feb-08	29	29	27	30	A	28	28	27	24	28	23	24	29	28	33	35	34	27	29	30	33	33	32	32	29.1	34.9
10-Feb-08	32	32	31	29	A	29	28	28	27	26	27	27	28	28	28	26	25	23	17	14	17	16	15	14	24.7	31.9
11-Feb-08	21	36	39	42	A	41	43	42	40	36	38	38	37	37	38	C	C	C	A	41	41	43	40	41	38.6	42.6
12-Feb-08	40	40	39	30	A	33	33	28	27	27	24	26	26	26	26	26	25	22	18	17	15	25	21	24	26.9	40.4
13-Feb-08	29	30	23	24	A	21	21	22	21	23	24	25	25	26	25	24	26	29	29	28	26	30	31	30	25.6	31.1
14-Feb-08	29	30	30	32	A	39	39	39	39	40	41	40	39	39	40	39	38	39	39	38	39	38	38	36	37.2	40.6
15-Feb-08	36	36	35	35	A	34	35	34	32	35	37	37	37	35	36	37	37	38	39	39	39	39	39	39	36.4	39.1
16-Feb-08	40	40	41	41	A	41	41	40	40	40	40	41	43	43	43	43	42	42	41	41	41	41	40	39	40.9	43.1
17-Feb-08	39	38	36	36	A	34	34	35	37	37	42	42	43	44	44	44	44	43	41	40	38	38	39	36	39.2	44.2
18-Feb-08	36	38	39	45	A	45	45	43	43	43	44	46	49	51	51	50	50	49	48	51	50	49	50	48	46.0	51.0
19-Feb-08	48	47	46	42	A	39	39	39	38	40	43	43	45	49	48	50	51	49	46	41	43	47	47	40	44.2	50.6
20-Feb-08	37	37	36	31	A	29	29	28	28	32	33	33	29	32	43	48	49	48	43	43	43	43	43	42	37.2	48.6
21-Feb-08	38	38	34	32	A	36	36	34	31	32	31	32	32	34	42	40	37	42	44	43	44	46	45	44	37.6	45.6
22-Feb-08	37	36	39	35	A	28	31	32	33	34	37	39	41	46	49	51	49	49	42	43	45	45	37	38	39.7	50.6
23-Feb-08	31	29	37	38	A	37	32	26	25	26	34	40	38	38	37	38	39	40	40	36	38	40	41	39	35.5	41.1
24-Feb-08	39	39	39	40	A	41	40	39	28	24	34	38	40	42	44	44	46	42	45	45	42	41	44	44	39.8	45.6
25-Feb-08	44	44	43	43	A	40	39	39	34	34	34	35	36	36	35	33	32	31	30	35	41	43	43	43	37.5	43.6
26-Feb-08	42	41	40	41	A	39	35	33	35	41	42	36	38	41	45	46	44	46	46	45	45	42	41	40	40.9	46.0
27-Feb-08	40	40	40	34	A	33	27	27	26	27	30	30	43	46	46	45	44	43	43	43	42	42	42	42	37.9	46.3
28-Feb-08	42	41	41	40	A	40	40	39	39	40	40	40	41	41	41	41	40	42	43	43	42	41	39	40	40.6	42.6
29-Feb-08	41	40	37	35	A	35	30	28	31	34	38	42	38	42	45	47	47	46	46	44	43	45	45	45	40.1	46.7
Hourly Avg	32.2	32.7	32.2	31.3	N	30.6	30.2	29.6	28.9	30.2	31.6	32.6	33.5	34.6	35.6	35.4	34.9	34.7	33.2	33.1	33.3	34.0	33.5	33.2		
Hourly Max	48.0	47.0	46.0	44.6	0.0	44.6	44.6	42.6	42.5	42.5	43.5	45.7	48.6	51.0	51.0	50.6	50.6	48.8	48.4	50.5	50.3	49.0	49.6	48.0		

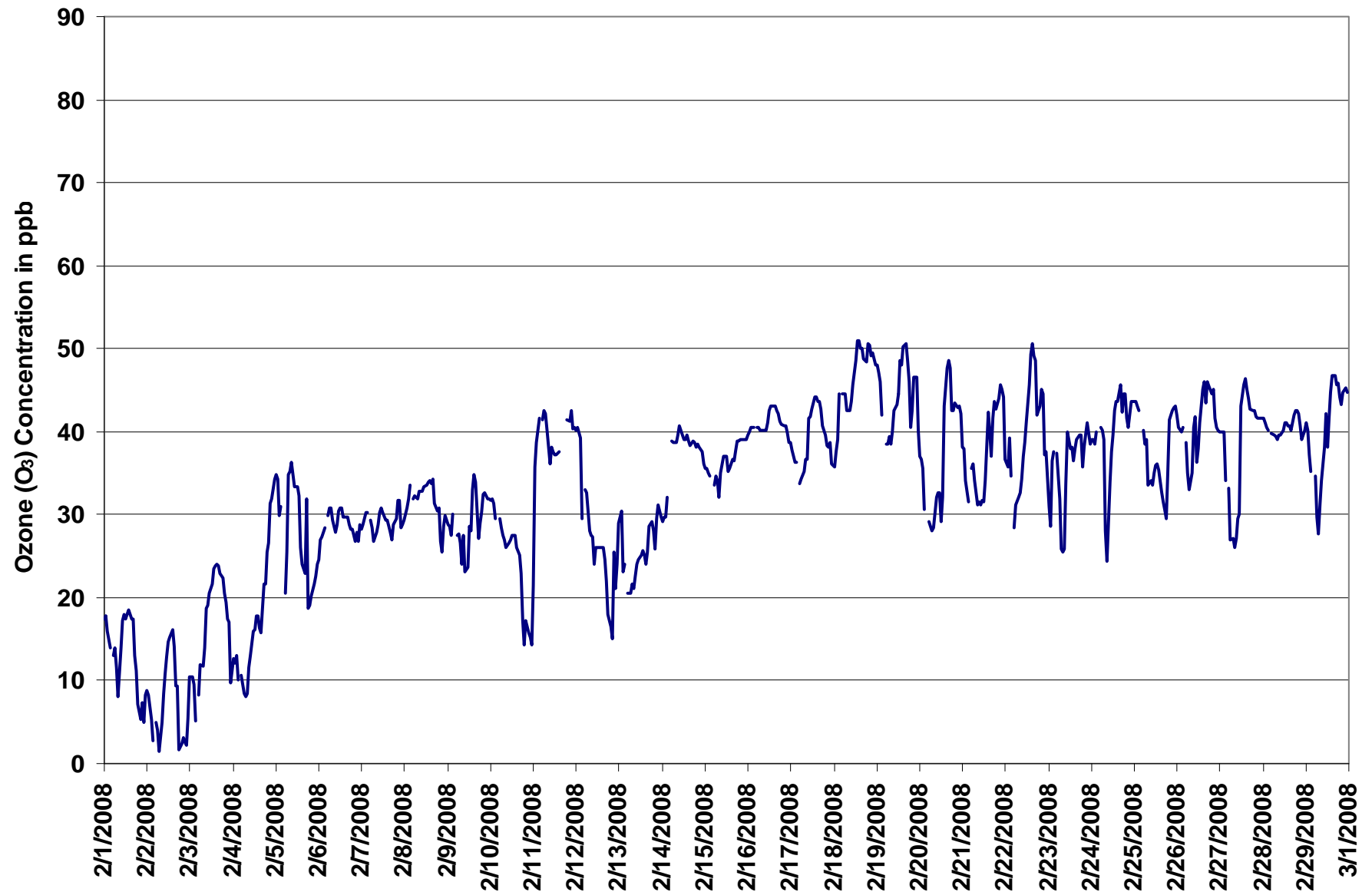
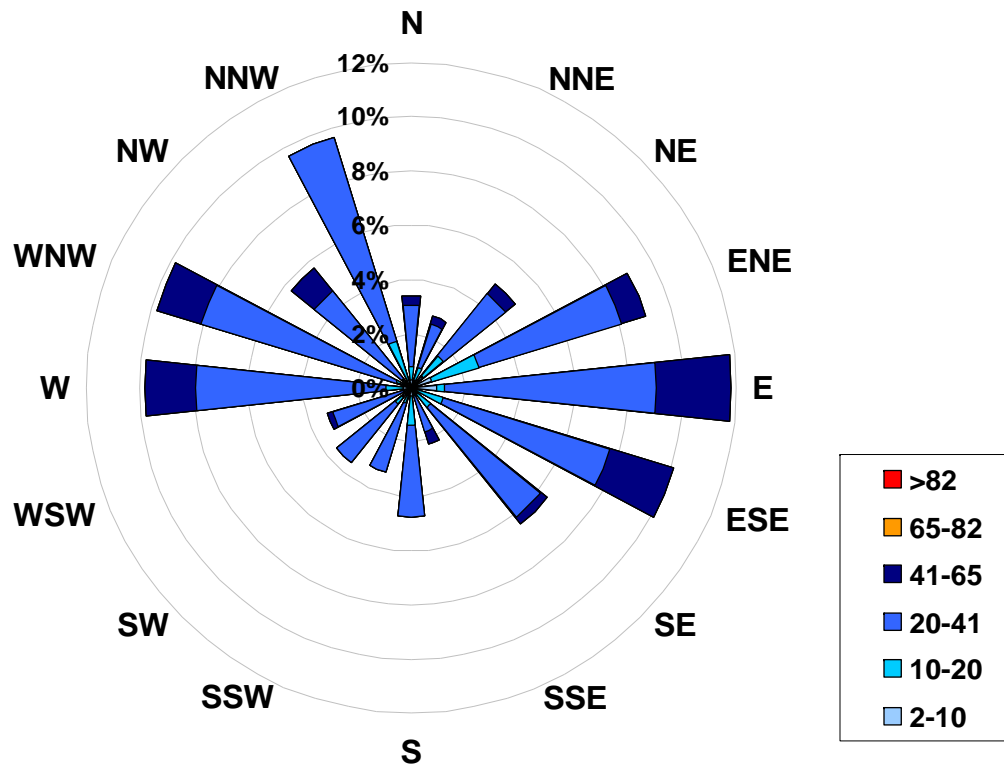


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		45
10	to 20		70
20	to 41		465
41	to 65		83
65	to 82		0
	> 82		0
Total Non-Zero Values			663

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

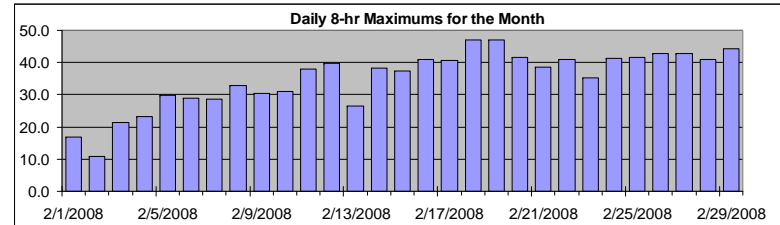
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	46.9 ppb 18-Feb 20:00 21:00



Percentile	99	95	75	50	25	5	1
	46.6	41.9	37.8	31.5	24.7	8.3	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																							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-Feb-08	17	17	16	15	15	15	14	13	12	11	11	12	12	13	14	15	16	16	15	13	11	10	8	7	17.0
2-Feb-08	6	5	4	4	5	4	4	3	3	3	4	5	6	7	9	10	11	10	9	8	7	5	4	3	10.8
3-Feb-08	2	3	4	4	4	4	4	5	5	7	8	11	12	15	17	19	21	21	21	21	21	20	19	17	21.3
4-Feb-08	15	14	13	12	11	10	9	8	7	7	7	8	9	10	12	13	14	15	16	17	17	19	21	23	32.1
5-Feb-08	25	27	28	29	30	28	26	24	23	23	24	25	26	26	27	27	26	24	22	21	19	19	19	20	29.8
6-Feb-08	21	21	22	24	24	25	27	28	28	28	28	28	29	29	29	28	29	29	29	29	28	28	27	27	29.0
7-Feb-08	27	27	27	27	28	28	28	28	28	27	27	28	28	28	28	28	28	29	28	28	28	28	28	28	28.6
8-Feb-08	28	28	29	29	29	30	30	31	31	32	32	32	32	32	32	33	33	33	32	32	31	28	27	26	32.7
9-Feb-08	24	24	23	23	22	23	23	23	21	20	19	20	21	22	23	25	26	27	28	29	30	30	30	30	30.3
10-Feb-08	30	31	31	31	31	30	30	29	28	27	27	26	26	26	26	26	26	26	25	23	22	20	18	14	31.1
11-Feb-08	13	14	17	20	21	25	30	34	37	38	38	37	37	36	36	35	N	N	N	N	N	N	N	N	38.0
12-Feb-08	N	40	39	37	37	36	34	31	29	27	26	25	25	25	25	25	24	24	23	21	20	19	17	16	39.7
13-Feb-08	16	17	18	19	19	20	20	21	20	20	20	21	22	22	23	23	24	25	25	25	25	26	27	27	26.6
14-Feb-08	27	28	28	28	29	31	32	33	34	35	37	38	38	38	38	38	38	38	38	38	37	37	37	37	38.1
15-Feb-08	36	36	36	35	35	34	34	33	32	32	33	33	33	34	34	34	35	36	36	36	36	37	37	37	37.5
16-Feb-08	38	38	38	39	39	39	39	40	40	40	40	40	40	40	40	41	41	41	41	41	41	40	40	39	41.0
17-Feb-08	39	38	38	37	37	36	35	34	34	34	35	35	36	37	38	39	40	41	40	40	40	39	38	37	40.6
18-Feb-08	37	36	36	37	37	38	39	40	41	41	42	42	43	44	44	45	46	46	46	47	47	47	47	47	46.9
19-Feb-08	47	47	47	46	45	44	43	41	40	39	37	36	37	37	37	38	40	41	42	42	42	43	43	42	46.9
20-Feb-08	40	38	37	36	36	32	30	29	28	27	28	27	27	28	29	32	34	36	37	38	40	41	42	41	41.6
21-Feb-08	39	37	37	35	35	34	33	32	32	31	31	31	31	31	31	32	33	33	35	36	37	38	38	37	38.6
22-Feb-08	37	36	35	34	34	32	30	30	30	30	31	32	35	37	39	40	40	40	41	41	41	41	39	37	41.0
23-Feb-08	35	34	33	33	32	31	29	28	27	27	26	26	27	27	28	29	31	33	34	34	34	34	35	35	35.1
24-Feb-08	36	36	35	36	37	37	36	34	30	27	25	25	26	27	28	31	35	38	40	41	41	40	40	40	41.4
25-Feb-08	40	41	41	41	41	42	41	40	38	36	34	32	32	32	32	31	31	31	30	30	30	31	32	34	41.5
26-Feb-08	35	36	38	40	40	40	38	36	35	35	35	34	34	35	36	38	39	40	41	42	43	43	42	42	42.7
27-Feb-08	42	41	40	39	38	37	34	31	29	27	25	24	25	27	30	33	35	37	40	42	43	42	42	41	42.6
28-Feb-08	41	41	41	40	40	40	40	40	39	39	39	39	39	39	39	39	39	39	39	40	40	40	39	39	41.0
29-Feb-08	39	39	38	37	37	36	34	32	30	30	29	31	31	31	33	36	38	40	41	41	43	44	44	44	44.1

Hourly Max 46.6 46.9 46.7 45.8 45.4 44.0 42.5 41.3 40.5 41.2 41.9 42.2 42.8 43.5 44.1 44.7 45.6 46.0 46.1 46.7 46.9 46.7 46.7 46.6

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

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

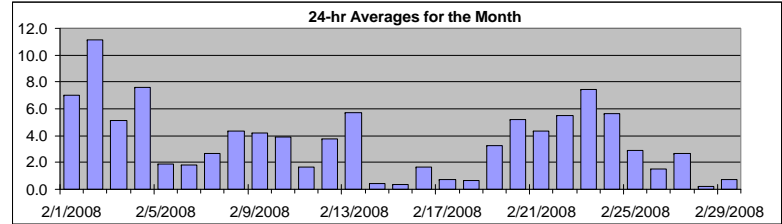
Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 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:	22.4 µg/m ³ 4-Feb 6:00 7:00
Maximum 24-hr Value:	11.1 µg/m ³ 2-Feb

AIC Time:	0 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	98.9%
Percentile	99	95	75
	15.5	10.6	5.4
	5.0	2.5	0.7
	5	1	0.0
	0.0	0.0	0.0
	Average / Median		3.6
	3 µg/m ³		2.5 µg/m ³



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-Feb-08	6	7	6	5	6	6	6	6	5	9	8	0	11	11	6	17	4	5	5	6	9	7	9	9	7.0	17.1	
2-Feb-08	9	9	9	7	11	9	9	8	11	11	11	13	0	16	15	22	15	11	11	14	11	12	12	12	11.1	22.4	
3-Feb-08	6	8	8	9	11	6	7	9	10	7	6	2	4	5	2	5	1	1	3	2	1	0	3	8	5.2	11.0	
4-Feb-08	7	5	8	1	13	0	22	10	7	14	12	10	14	17	4	15	8	5	3	0	3	2	0	1	7.6	22.4	
5-Feb-08	0	0	1	3	0	3	10	0	0	8	C	C	C	0	D	2	3	2	0	0	1	2	1	2	1.9	9.7	
6-Feb-08	2	2	2	3	3	4	2	1	1	1	1	0	D	3	1	1	1	3	5	1	1	0	1	2	1.8	5.3	
7-Feb-08	2	1	1	2	2	2	2	2	2	3	2	D	1	D	2	2	2	4	8	4	4	3	3	6	2.7	8.3	
8-Feb-08	4	2	3	3	4	3	4	5	3	4	4	5	5	4	5	4	5	5	4	5	7	7	6	6	4.4	6.7	
9-Feb-08	5	5	6	3	4	6	4	5	7	0	8	13	9	9	6	4	2	3	1	0	0	0	0	0	4.2	12.8	
10-Feb-08	0	3	2	3	3	2	9	3	2	0	2	5	4	6	4	5	5	4	5	6	6	4	5	6	3.9	8.5	
11-Feb-08	4	6	1	0	2	0	0	0	0	3	0	2	0	0	5	1	5	0	4	1	1	P	1	1	1.7	6.2	
12-Feb-08	1	0	0	3	1	1	0	1	2	2	3	4	3	5	5	6	7	6	6	7	6	8	6	8	3.8	8.4	
13-Feb-08	4	3	5	5	6	5	6	6	7	8	8	8	8	6	8	7	7	7	6	6	5	4	2	1	5.7	8.3	
14-Feb-08	2	0	1	1	3	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0.4	3.1
15-Feb-08	0	0	0	0	0	0	0	0	0	1	0	0	D	0	0	2	1	1	1	2	0	0	0	0	0.3	2.1	
16-Feb-08	0	0	0	1	1	2	1	2	2	2	2	2	2	3	1	1	2	3	2	1	0	1	5	2	1.7	4.8	
17-Feb-08	1	0	1	0	0	1	2	0	0	0	0	0	2	3	2	1	1	1	2	1	0	0	1	1	0	0.8	2.9
18-Feb-08	0	0	0	0	0	0	0	0	0	0	D	0	1	2	2	1	0	1	1	0	1	2	1	2	0.7	2.2	
19-Feb-08	1	2	2	2	1	2	2	3	3	3	4	5	6	5	4	3	7	3	3	4	4	2	3	6	3.3	6.6	
20-Feb-08	9	8	8	8	6	8	6	3	4	3	3	4	5	4	2	2	2	2	5	7	7	10	5	3	5.2	10.0	
21-Feb-08	7	4	4	4	4	4	4	5	5	4	5	5	4	5	4	4	5	4	4	4	4	4	3	4	4.3	6.9	
22-Feb-08	5	5	5	13	12	6	5	3	2	3	2	2	2	3	2	3	5	8	5	8	9	11	6	6	5.5	12.7	
23-Feb-08	7	8	8	7	6	4	6	7	7	8	8	10	8	9	9	10	9	6	6	7	10	9	5	4	7.4	10.2	
24-Feb-08	3	5	6	5	6	7	7	13	17	18	14	3	6	2	2	3	4	5	1	2	1	5	0	0	5.6	18.2	
25-Feb-08	0	0	0	1	1	3	2	1	4	4	5	4	3	5	4	5	5	5	6	4	2	2	1	2	2.9	6.2	
26-Feb-08	1	1	2	1	2	1	1	1	1	2	2	3	1	0	1	1	4	2	2	2	0	1	2	3	1.5	3.6	
27-Feb-08	2	2	1	3	12	5	4	4	5	7	5	7	2	D	0	0	0	1	0	1	0	0	0	0	2.7	11.7	
28-Feb-08	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2	0.7	
29-Feb-08	0	0	0	1	0	1	2	2	2	2	2	1	3	2	1	1	0	0	0	0	0	0	0	0	0.7	2.8	
Hourly Avg	3.1	3.0	3.2	3.2	4.1	3.2	4.2	3.5	3.7	4.4	4.4	4.1	4.0	4.7	3.3	4.5	3.7	3.4	3.4	3.2	3.2	3.5	2.8	3.2			
Hourly Max	9.1	8.6	9.1	12.7	12.9	9.3	22.4	13.0	16.8	18.2	13.8	12.8	14.3	17.4	15.1	22.4	14.8	11.3	10.9	14.1	10.5	12.2	11.6	11.6			

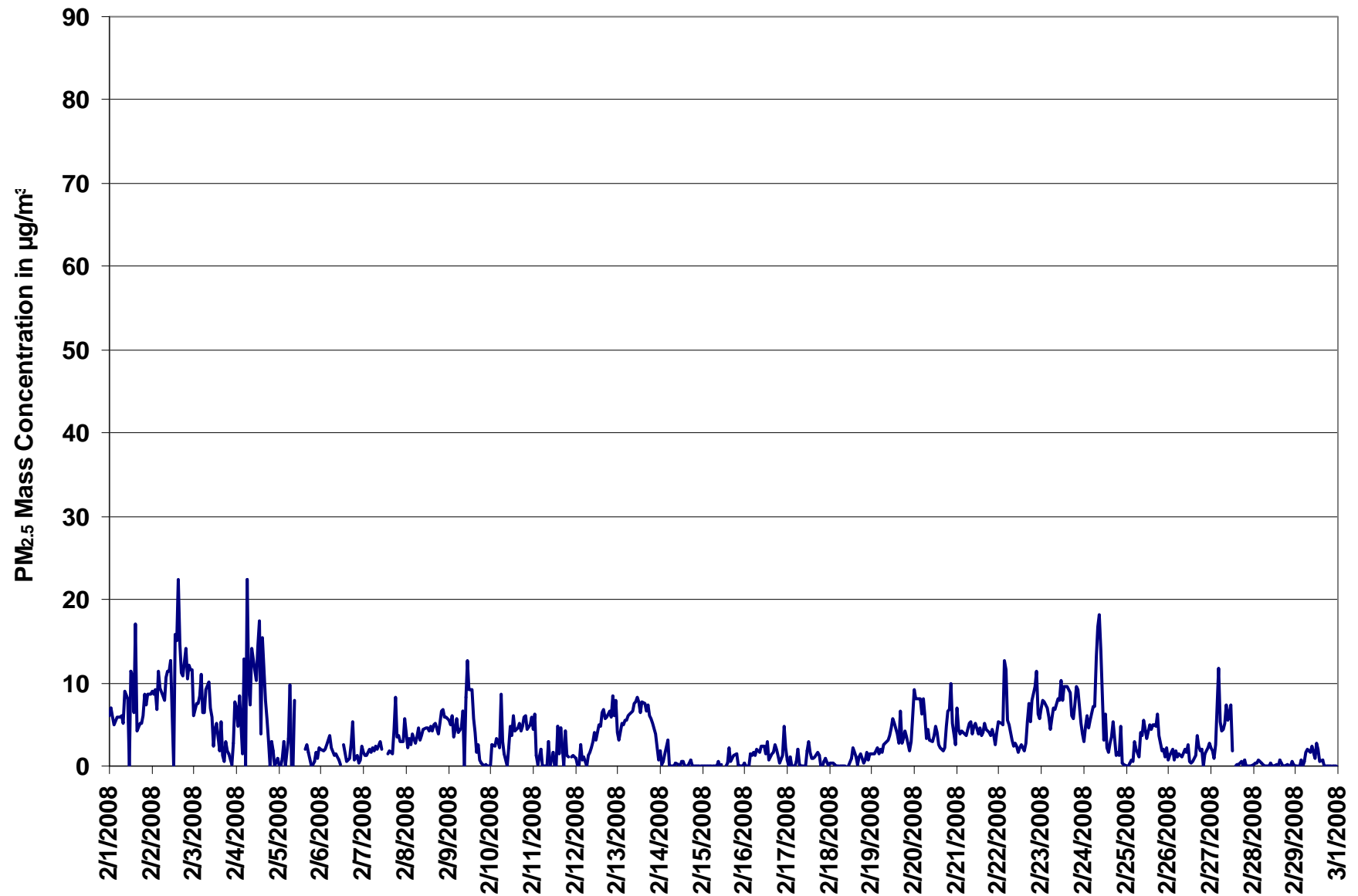


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

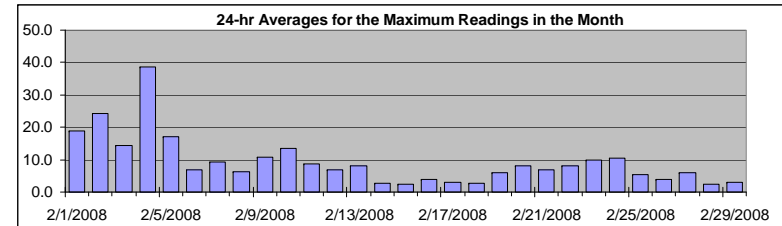
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	89.3	µg/m ³	4-Feb	6:00 7:00
Maximum 24-hr Value:	38.7	µg/m ³	4-Feb	



AIC Time:	0 hrs	Operational Time:	692 hrs							
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	64.7	27.4	10.0	6.1	3.5	1.6	0.5	9.2	6 µg/m ³	7.2 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-Feb-08	10	11	12	9	9	10	10	10	7	13	14	20	31	64	75	57	8	10	9	9	16	13	12	12	18.8	75.0	
2-Feb-08	11	14	13	11	16	15	11	10	15	16	21	49	31	87	63	48	29	19	17	20	15	19	16	19	24.3	87.2	
3-Feb-08	12	18	12	11	16	9	13	31	25	12	11	9	9	15	37	53	6	6	7	4	6	6	6	11	14.5	53.3	
4-Feb-08	10	18	47	89	72	64	89	85	67	54	61	60	25	45	24	25	19	11	8	12	15	14	7	8	38.7	89.3	
5-Feb-08	4	17	14	17	18	11	41	36	20	64	C	C	C	33	2	11	27	23	2	2	2	4	4	5	17.1	64.4	
6-Feb-08	5	3	5	4	5	5	5	2	2	3	3	3	10	15	7	9	9	27	26	5	5	3	2	6	7.0	27.4	
7-Feb-08	4	4	4	5	4	3	3	4	4	4	3	3	25	22	7	6	11	11	31	30	7	8	8	6	8	9.3	30.6
8-Feb-08	8	6	5	5	7	5	5	6	4	6	7	6	6	6	7	6	7	7	5	6	8	8	8	7	6.2	8.3	
9-Feb-08	7	6	8	5	7	8	5	8	9	49	16	19	16	18	25	21	4	5	3	2	1	10	3	4	10.8	49.5	
10-Feb-08	18	13	28	9	12	10	31	6	24	16	14	10	9	12	8	11	11	9	15	10	16	12	8	11	13.5	31.1	
11-Feb-08	10	11	7	6	11	6	5	5	4	14	5	9	4	8	13	8	27	23	17	3	3	P	3	3	8.8	27.3	
12-Feb-08	3	2	4	4	3	6	6	4	4	5	7	8	6	8	7	9	9	8	10	9	8	14	10	12	7.0	14.0	
13-Feb-08	6	6	8	7	7	7	8	8	8	11	11	11	11	9	10	10	9	10	8	7	8	6	4	3	8.0	10.8	
14-Feb-08	4	2	3	4	6	5	1	2	3	4	4	2	4	3	1	3	2	4	2	3	0	2	1	3	2.8	5.7	
15-Feb-08	2	2	2	2	3	0	2	2	3	4	1	3	0	3	2	6	2	5	5	5	3	2	0	1	2.5	6.0	
16-Feb-08	3	3	2	4	3	3	3	4	4	4	4	4	5	10	3	3	3	4	3	3	2	4	7	6	3.8	10.2	
17-Feb-08	4	3	5	2	0	3	5	3	5	2	1	6	5	5	2	3	3	4	3	1	2	2	4	3	3.1	6.3	
18-Feb-08	2	2	2	2	2	1	0	1	2	3	0	3	5	6	4	4	2	3	4	2	3	3	3	4	2.6	5.9	
19-Feb-08	3	3	4	4	3	3	3	4	4	5	6	9	13	9	8	7	13	5	6	6	6	4	4	10	6.0	13.5	
20-Feb-08	12	13	12	10	8	11	10	6	6	5	5	7	15	7	6	4	4	5	6	9	9	12	8	7	8.2	15.2	
21-Feb-08	12	7	5	8	6	5	6	8	6	6	7	7	6	8	6	6	7	6	6	6	7	7	6	9	6.8	12.2	
22-Feb-08	9	8	8	18	15	8	9	6	4	4	4	4	5	4	4	5	8	11	9	10	12	14	9	8	8.1	17.6	
23-Feb-08	9	10	10	9	8	6	8	9	9	10	11	14	12	12	11	12	11	9	9	9	12	11	9	7	9.9	14.1	
24-Feb-08	5	9	9	8	11	13	16	24	22	24	20	11	11	11	4	4	6	8	4	4	4	12	6	2	10.4	23.8	
25-Feb-08	1	1	2	3	2	5	4	4	8	10	9	7	6	8	6	7	7	7	9	6	4	4	4	4	5.4	9.6	
26-Feb-08	3	4	4	3	4	2	4	3	3	5	5	5	3	2	3	4	6	6	5	5	3	4	4	5	4.0	6.1	
27-Feb-08	4	4	3	5	36	7	6	8	8	10	8	11	7	1	2	4	4	4	3	4	3	2	1	1	6.0	35.8	
28-Feb-08	1	3	2	3	2	2	2	2	1	2	3	2	4	4	2	3	4	1	2	3	1	2	4	2	2.3	3.8	
29-Feb-08	1	3	1	4	3	2	3	4	4	5	5	3	7	6	2	3	2	4	1	1	1	0	2	2	2.9	6.9	
Hourly Avg	6.3	7.1	8.3	9.3	10.4	8.3	10.8	10.5	9.9	12.7	9.4	11.6	10.2	14.7	12.0	9.0	9.5	8.1	6.1	6.3	7.2	5.5	6.4				
Hourly Max	17.8	18.5	47.5	88.7	72.3	64.4	89.3	85.1	67.3	64.4	60.7	60.4	31.2	87.2	75.0	56.6	28.8	30.6	30.4	20.5	16.5	18.8	15.8	18.7			

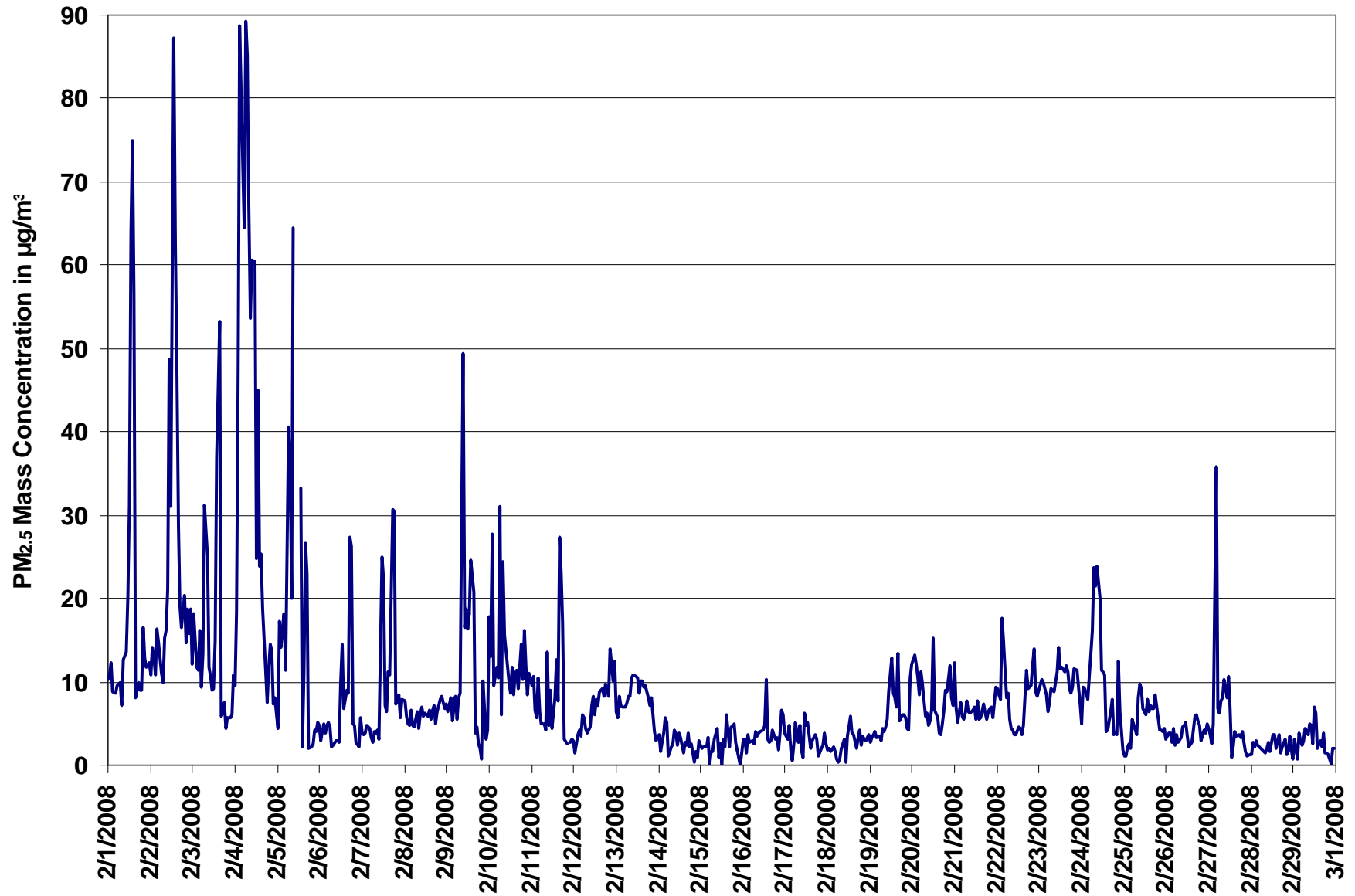
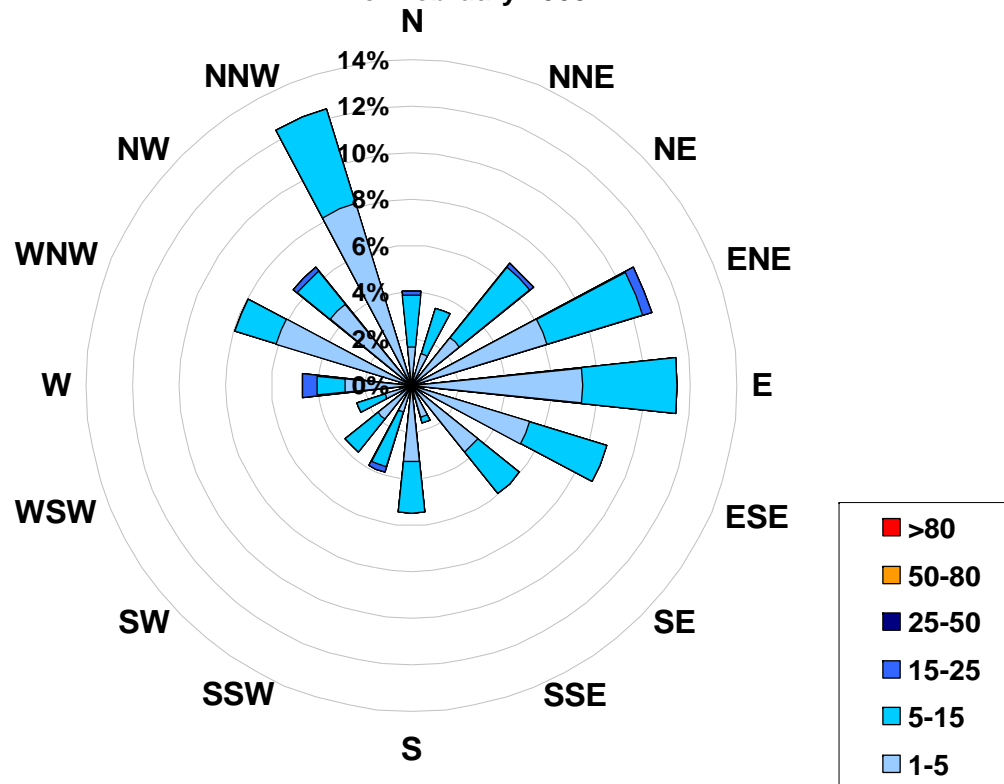


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	483
5	to	15	193
15	to	25	9
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			685

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

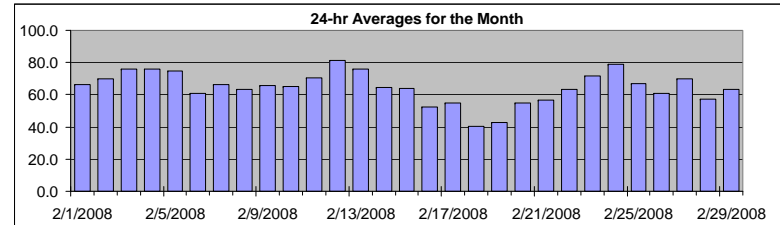
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	94.9 %	24-Feb	6:00 7:00
Maximum 24-hr Value:	81.6 %	12-Feb	



AIC Time:	0 hrs	Operational Time:	696 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	93.1	84.1	74.8	66.0	57.1	36.1	28.7	64.7 %	66.0 %

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																								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-Feb-08	74	75	76	75	75	75	75	76	78	73	62	51	38	36	35	44	50	63	71	74	76	77	77	77	66.0	77.9
2-Feb-08	77	77	76	76	76	77	75	75	75	72	67	65	49	46	37	53	67	71	72	72	75	78	79	83	69.6	82.5
3-Feb-08	82	82	83	81	81	80	80	81	80	81	80	77	75	64	60	60	64	71	73	75	78	80	80	80	76.1	82.5
4-Feb-08	78	78	78	78	79	82	79	79	80	80	80	80	82	81	60	65	70	74	74	72	72	72	73	74	76.0	82.4
5-Feb-08	71	75	77	73	70	73	74	88	89	81	68	67	66	72	74	80	81	80	79	77	73	70	68	66	74.6	89.1
6-Feb-08	66	64	64	64	64	65	65	62	63	59	55	53	49	49	49	53	55	59	62	64	66	67	70	71	60.7	70.5
7-Feb-08	71	71	70	73	75	74	72	69	68	69	64	56	51	52	55	59	60	65	70	72	74	70	69	68	66.5	74.9
8-Feb-08	67	69	70	66	68	68	66	66	67	62	56	57	58	57	55	55	56	59	60	61	66	69	69	69	63.3	70.3
9-Feb-08	70	70	71	68	68	69	68	65	66	66	61	52	53	53	57	59	62	68	69	70	71	72	72	73	65.5	73.4
10-Feb-08	73	73	75	77	77	75	74	72	70	67	62	55	48	44	47	52	48	57	64	67	68	70	71	77	65.2	77.2
11-Feb-08	85	85	82	77	73	81	75	74	73	72	70	70	65	66	66	57	61	63	65	64	65	66	66	67	70.3	85.0
12-Feb-08	68	67	77	83	85	86	88	90	89	88	84	83	79	79	81	78	78	80	81	81	80	83	86	85	81.6	89.9
13-Feb-08	88	84	84	84	83	84	84	83	83	83	78	69	63	62	62	62	57	70	74	76	75	77	79	81	76.1	87.7
14-Feb-08	80	80	79	77	65	69	66	64	62	62	62	62	54	53	54	60	63	63	61	64	61	63	61	66	64.6	80.0
15-Feb-08	66	65	68	69	70	69	69	73	72	70	68	65	63	62	51	47	51	54	57	61	65	67	64	68	64.0	73.3
16-Feb-08	66	63	60	56	59	58	58	59	60	58	51	47	42	39	35	35	34	38	49	53	56	59	65	65	52.7	66.0
17-Feb-08	67	68	66	66	65	64	64	65	62	54	39	35	34	37	37	39	34	46	55	61	60	65	66	68	55.0	67.9
18-Feb-08	68	67	67	62	53	56	53	51	49	41	36	32	30	25	25	28	29	27	29	29	29	28	28	33	40.6	68.1
19-Feb-08	33	39	46	48	49	51	51	53	51	44	43	38	34	32	29	29	32	36	40	51	50	46	51	56	43.0	55.8
20-Feb-08	58	62	66	71	72	78	76	74	75	70	59	57	45	44	36	32	30	35	43	45	47	48	45	48	54.8	77.9
21-Feb-08	57	62	67	69	68	69	73	76	70	64	62	50	40	48	32	33	38	47	51	52	59	57	53	67	56.8	75.9
22-Feb-08	74	77	76	78	77	78	80	80	76	66	57	51	45	43	35	38	52	58	58	63	64	63	66	71	63.5	80.0
23-Feb-08	74	76	75	73	76	72	76	76	76	73	66	63	61	55	60	63	73	78	75	78	79	72	77	75	71.7	78.6
24-Feb-08	72	78	81	85	90	92	95	93	91	88	78	68	66	70	74	67	65	80	76	78	77	80	72	74	78.7	94.9
25-Feb-08	75	75	75	75	78	83	83	85	82	75	67	60	51	46	56	56	52	60	71	67	58	62	58	60	67.1	84.6
26-Feb-08	63	66	65	64	62	61	64	66	62	56	55	56	50	43	41	46	62	60	61	66	65	67	71	86	60.8	86.1
27-Feb-08	91	92	93	94	94	92	94	94	95	92	84	66	60	49	38	36	39	43	48	56	55	57	60	60	70.0	94.6
28-Feb-08	59	58	59	61	61	62	64	63	60	57	55	48	43	48	49	52	56	54	55	60	65	66	63	60	57.4	66.0
29-Feb-08	58	61	59	61	64	67	71	74	69	62	60	54	52	62	61	59	61	64	66	66	68	68	69	68	63.4	73.5
Hourly Avg	70.0	70.9	71.9	71.9	71.7	72.7	72.9	73.4	72.2	68.4	63.1	58.2	53.4	52.3	50.0	51.6	54.6	59.4	62.3	64.7	65.4	66.1	66.4	68.7		
Hourly Max	90.7	91.8	93.1	94.1	93.8	91.8	94.9	94.3	94.6	91.5	84.0	83.3	82.3	80.9	80.5	79.9	80.8	80.5	80.8	81.3	79.9	82.7	85.6	86.1		

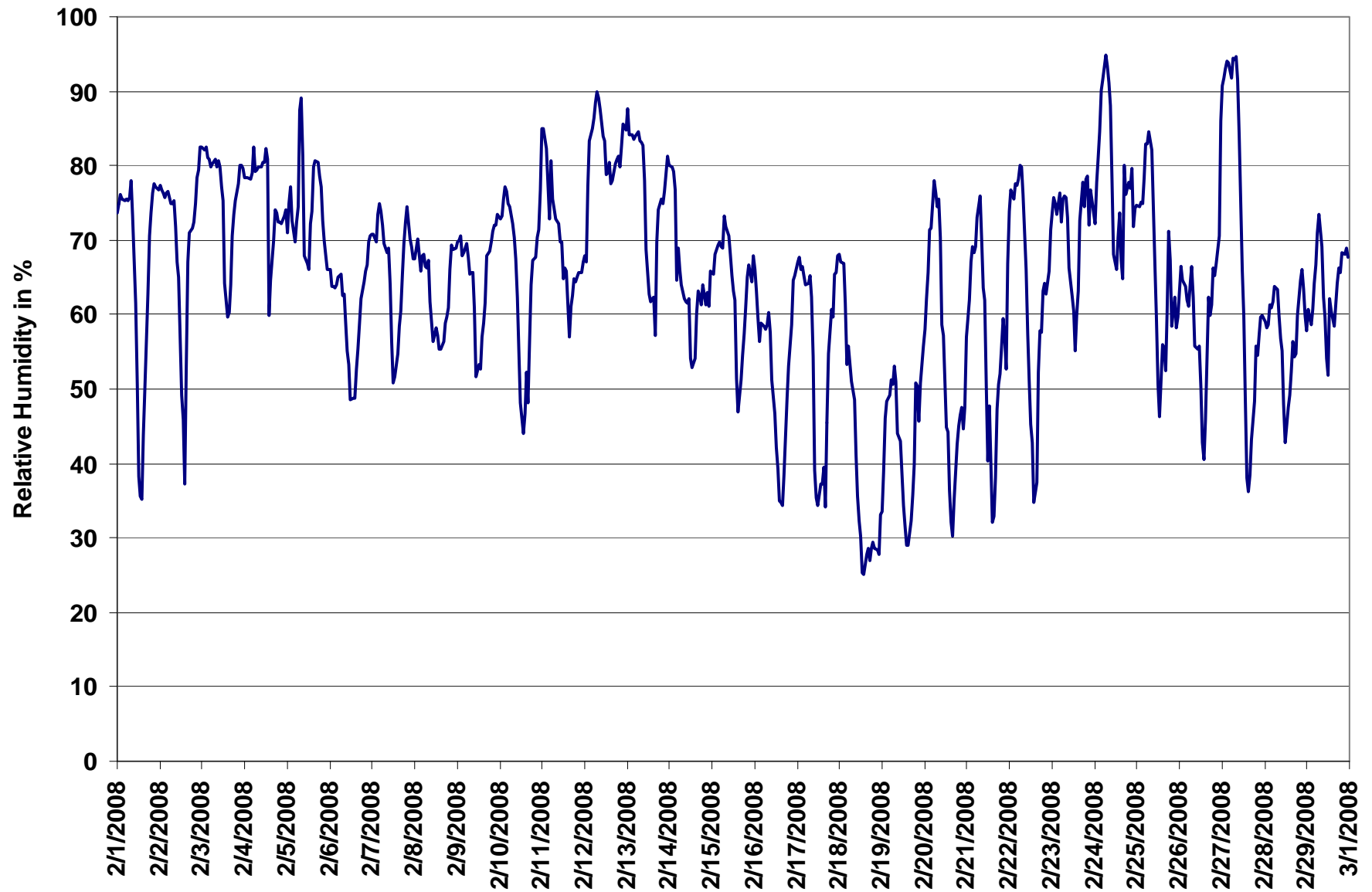


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

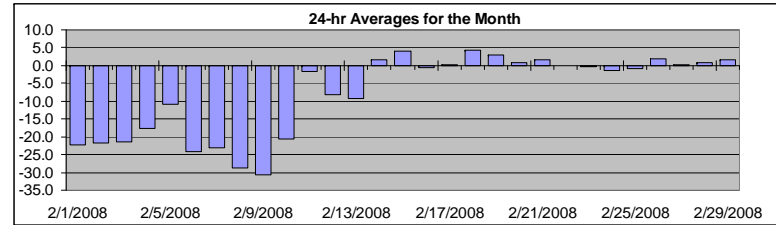
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	11.1	°C	18-Feb	14:00 15:00
Maximum 24-hr Value:	4.3	°C	18-Feb	



AIC Time:	0 hrs	Operational Time:	696 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.4	6.3	1.4	-2.9	-20.4	-27.9	-33.9	-7.7 °C	-2.9 °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-Feb-08	-24	-24	-24	-24	-24	-24	-24	-24	-25	-24	-22	-18	-14	-13	-14	-17	-19	-22	-24	-25	-26	-26	-26	-26	-22.2	-13.4
2-Feb-08	-26	-27	-27	-29	-27	-26	-26	-26	-25	-23	-21	-20	-15	-15	-12	-16	-19	-20	-21	-20	-19	-20	-21	-20	-21.7	-11.6
3-Feb-08	-21	-21	-22	-22	-22	-23	-24	-23	-23	-21	-22	-22	-21	-18	-17	-18	-20	-22	-22	-23	-24	-25	-24	-21.5	-17.0	
4-Feb-08	-24	-23	-23	-24	-23	-22	-23	-23	-22	-22	-20	-20	-17	-13	-13	-16	-16	-14	-13	-12	-12	-11	-11	-10	-17.8	-10.3
5-Feb-08	-10	-11	-12	-10	-9	-9	-9	-7	-7	-4	-4	-4	-3	-5	-4	-5	-5	-10	-18	-21	-23	-24	-24	-25	-11.0	-3.4
6-Feb-08	-25	-26	-27	-27	-27	-27	-26	-26	-26	-25	-25	-24	-22	-22	-22	-23	-23	-23	-22	-22	-22	-23	-23	-23	-24.2	-21.8
7-Feb-08	-23	-23	-23	-24	-24	-25	-25	-25	-25	-24	-24	-22	-21	-21	-21	-22	-22	-22	-23	-23	-23	-24	-24	-24	-23.2	-20.5
8-Feb-08	-24	-25	-25	-26	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	-29	-30	-30	-31	-32	-32	-32	-28.7	-24.5
9-Feb-08	-32	-33	-34	-34	-35	-35	-35	-38	-36	-35	-33	-31	-30	-29	-28	-28	-28	-28	-27	-27	-26	-26	-25	-25	-30.7	-24.7
10-Feb-08	-24	-24	-24	-25	-25	-25	-25	-25	-25	-25	-24	-21	-19	-17	-16	-17	-15	-17	-18	-18	-18	-18	-17	-16	-20.7	-14.9
11-Feb-08	-14	-10	-7	-5	-4	-5	-3	-3	-2	-2	-1	-1	0	0	1	4	3	3	2	2	2	1	1	1	-1.6	3.6
12-Feb-08	1	1	-3	-6	-7	-7	-9	-10	-10	-11	-10	-11	-10	-10	-10	-10	-10	-10	-10	-10	-9	-8	-11	-7	-8.2	0.7
13-Feb-08	-6	-8	-11	-12	-13	-14	-13	-13	-13	-13	-12	-11	-8	-7	-7	-6	-5	-8	-8	-8	-7	-6	-5	-6	-9.2	-5.0
14-Feb-08	-5	-5	-5	-4	0	1	1	1	1	1	2	2	4	5	5	4	3	3	4	3	4	4	4	3	1.5	5.1
15-Feb-08	3	3	4	4	5	5	5	3	4	6	6	6	6	5	7	7	6	5	4	3	2	1	1	0	4.1	7.3
16-Feb-08	0	0	0	0	0	0	-1	-1	-1	-1	1	2	1	2	2	3	2	1	-2	-3	-3	-4	-6	-6	-0.5	2.6
17-Feb-08	-6	-6	-6	-6	-5	-5	-5	-5	-5	-3	1	3	6	7	8	7	9	6	4	2	2	0	0	-1	0.1	9.3
18-Feb-08	-1	-1	-2	-1	0	-1	-1	0	0	3	5	7	7	10	11	10	9	9	8	7	7	7	6	4	4.3	11.1
19-Feb-08	4	2	0	0	-1	-1	-1	-2	-1	1	2	4	6	8	10	10	9	7	5	2	2	2	1	-1	2.8	10.0
20-Feb-08	-1	-2	-3	-4	-4	-6	-5	-4	-5	-4	-1	-1	4	5	6	7	9	7	4	3	3	3	4	3	0.7	8.7
21-Feb-08	0	-1	-2	-3	-2	-2	-3	-4	-2	-1	-1	3	7	4	10	10	8	5	4	3	1	2	3	-1	1.7	10.5
22-Feb-08	-3	-3	-3	-3	-3	-4	-4	-4	-4	-2	0	2	4	6	8	7	4	3	2	1	0	0	0	-1	0.0	8.2
23-Feb-08	-2	-2	-1	-1	-2	-1	-2	-2	-2	-2	0	1	2	4	4	3	1	1	0	0	-1	0	-2	-3	-0.3	4.2
24-Feb-08	-2	-3	-4	-3	-4	-3	-4	-4	-4	-4	-1	0	2	2	1	3	3	0	0	-1	-1	-1	-1	-1	-1.3	3.0
25-Feb-08	-2	-2	-2	-2	-3	-5	-4	-5	-5	-5	-2	0	3	5	3	3	4	2	0	0	0	-1	0	0	-0.8	4.9
26-Feb-08	0	-1	-1	0	0	0	-1	-1	0	3	3	4	5	7	7	6	3	3	3	2	2	1	0	-1	1.9	7.5
27-Feb-08	-1	-1	-2	-3	-3	-3	-4	-4	-4	-3	-2	2	4	5	5	4	4	3	2	1	1	1	0	-1	0.2	5.1
28-Feb-08	0	0	0	-1	-1	-1	-2	-2	-1	1	1	3	5	4	3	3	3	2	2	1	-1	-1	-1	0	0.7	4.7
29-Feb-08	0	0	0	0	-1	-2	-3	-3	-2	0	2	5	7	3	4	4	4	3	3	3	3	3	2	2	1.5	6.6
Hourly Avg	-9.4	-9.6	-9.9	-10.2	-10.1	-10.3	-10.4	-10.6	-10.4	-9.3	-8.0	-6.5	-4.7	-4.0	-3.3	-3.7	-4.2	-5.5	-6.6	-7.2	-7.4	-7.7	-8.0	-8.3		
Hourly Max	3.8	2.9	3.6	3.8	4.6	5.0	5.0	3.5	3.6	5.6	6.0	6.8	7.1	10.1	11.1	10.2	9.4	9.4	8.3	7.5	6.9	6.6	6.2	4.1		

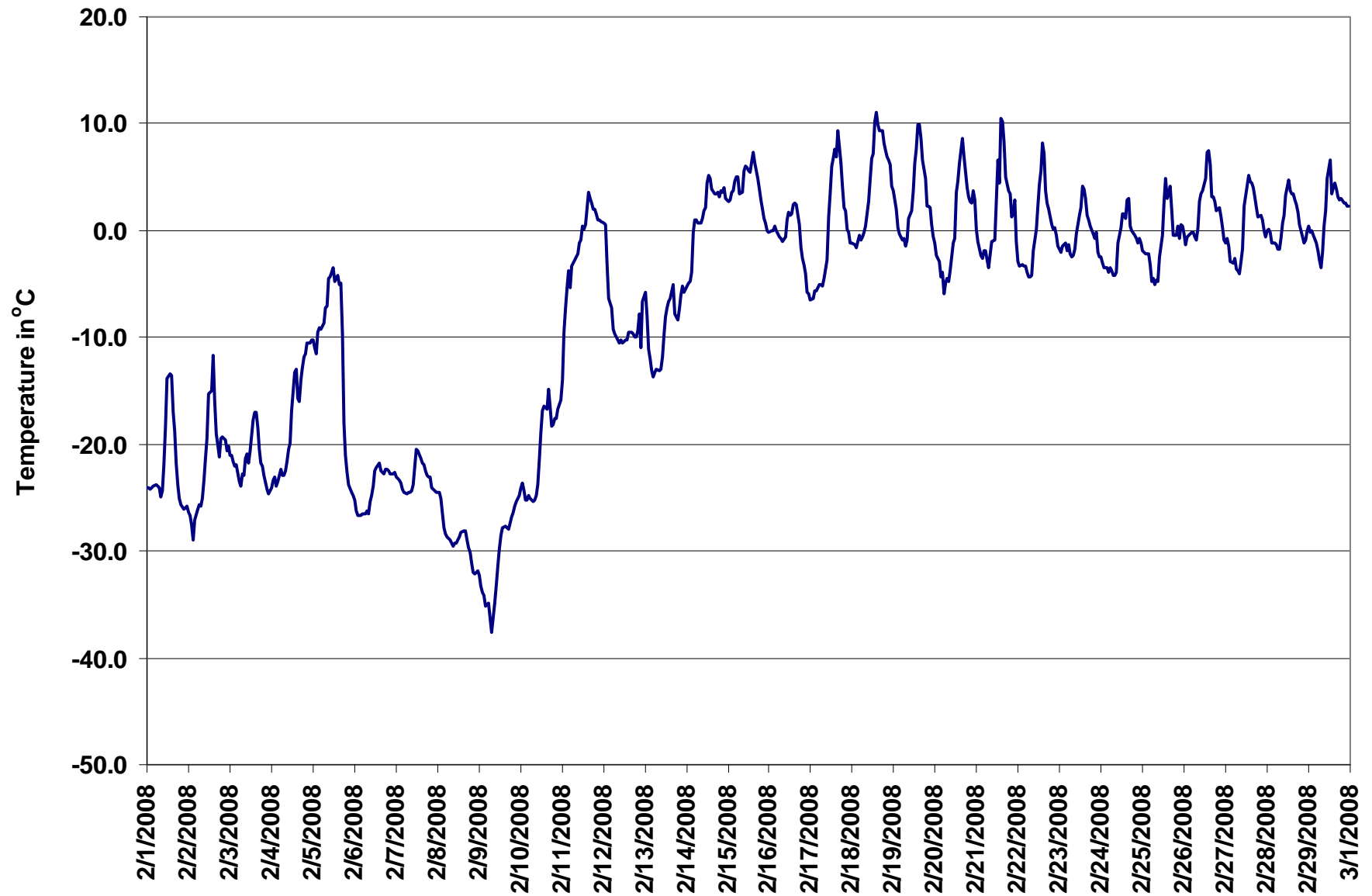


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

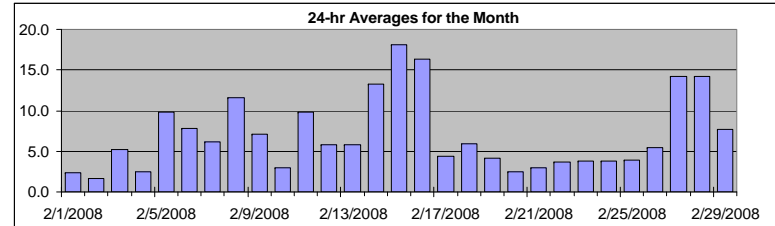
Wind Speed (WSs)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	34.8	km/hr	27-Feb	16:00 17:00
Maximum 24-hr Value:	18.1	km/hr	15-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.4	20.9	9.3	4.3	2.6	1.2	0.0	7.0 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	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-Feb-08	3	3	2	2	2	2	4	3	3	3	3	3	1	1	1	2	2	2	3	1	2	3	1	1		2.3	3.9
2-Feb-08	2	0	0	1	2	3	0	0	1	1	1	2	2	2	1	1	3	5	3	2	1	1	1	2		1.6	4.8
3-Feb-08	2	1	1	0	2	1	1	6	12	9	9	11	7	7	8	9	7	4	6	7	6	5	2	2		5.2	12.3
4-Feb-08	4	3	4	3	4	5	3	2	1	0	0	1	1	0	1	3	3	2	3	5	2	3	2	2		2.5	5.5
5-Feb-08	3	4	5	5	3	4	3	7	7	11	9	8	7	6	4	7	6	20	21	22	19	19	18	18		9.8	21.7
6-Feb-08	16	17	17	11	10	13	14	12	8	3	3	3	2	2	2	3	3	4	5	6	7	8	10	9		7.8	16.8
7-Feb-08	9	9	9	7	9	10	8	7	6	7	7	5	3	0	1	2	1	2	6	7	7	6	9	9		6.1	9.9
8-Feb-08	13	13	15	16	17	16	16	15	11	14	13	14	17	17	17	12	12	5	7	6	2	2	3	4		11.5	17.5
9-Feb-08	5	2	2	4	3	3	2	3	1	2	0	1	2	2	5	9	11	12	15	17	18	19	18	14		7.1	19.1
10-Feb-08	10	8	5	4	3	2	6	5	4	4	3	2	2	1	1	1	0	1	0	2	2	2	1	2		2.9	9.7
11-Feb-08	2	8	8	6	11	4	9	12	6	7	2	5	4	4	5	17	24	24	25	19	14	7	8	7		9.9	25.1
12-Feb-08	6	5	5	10	9	11	5	7	7	9	5	8	5	5	7	4	3	3	4	3	3	9	5	4		5.8	10.7
13-Feb-08	3	15	13	10	12	14	10	5	5	8	8	6	2	3	2	2	3	4	3	3	3	2	2	1		5.8	14.8
14-Feb-08	1	1	2	5	12	20	17	17	6	5	12	14	22	22	24	17	14	15	13	24	22	19	12	3		13.3	24.3
15-Feb-08	3	4	5	9	11	7	2	3	9	23	30	34	35	32	23	28	28	26	25	19	20	17	20	20		18.1	34.8
16-Feb-08	19	16	19	29	27	26	24	25	21	20	21	22	17	14	13	11	9	9	14	11	12	7	2	3		16.3	29.4
17-Feb-08	2	3	1	3	3	2	3	2	2	3	4	6	4	10	10	6	6	6	7	10	5	2	2	3		4.4	10.3
18-Feb-08	4	3	4	3	3	1	3	2	3	3	3	4	5	3	9	12	12	10	10	13	9	7	8	8		5.9	13.2
19-Feb-08	6	2	3	3	3	3	2	2	3	3	3	3	5	6	5	7	10	9	8	4	3	3	3	3		4.1	10.0
20-Feb-08	2	2	2	4	3	2	3	2	2	2	2	4	3	2	3	4	3	1	2	0	1	2	4	4		2.5	4.4
21-Feb-08	1	2	4	3	2	2	2	3	3	3	4	2	1	4	2	2	3	4	4	3	6	6	5	2		2.9	5.6
22-Feb-08	1	0	3	3	3	4	3	3	4	3	3	3	3	3	2	3	4	3	6	5	5	9	8	4		3.7	8.8
23-Feb-08	4	5	9	7	5	6	3	4	1	3	4	3	2	2	2	3	4	4	2	4	3	5	3	2		3.8	9.4
24-Feb-08	2	2	3	6	5	3	5	5	4	2	3	5	3	6	6	3	3	3	4	2	3	3	4	7		3.8	6.5
25-Feb-08	7	7	4	6	6	3	4	3	2	3	2	2	1	2	3	4	1	0	2	3	8	5	7	10		3.9	9.8
26-Feb-08	6	3	2	3	2	2	4	5	2	6	7	5	4	5	5	5	8	9	9	7	6	6	11	11		5.5	10.8
27-Feb-08	10	8	6	7	6	6	3	4	2	2	2	4	16	29	32	33	35	28	24	19	21	19	13	11		14.2	34.8
28-Feb-08	17	19	19	14	14	16	13	14	16	16	19	19	20	21	19	14	15	15	14	10	2	4	4	4		14.2	21.4
29-Feb-08	4	3	3	3	2	3	3	3	3	3	3	4	3	8	7	9	10	8	18	22	20	17	13	13		7.7	22.3
1-hr Average	5.7	5.8	6.1	6.4	6.7	6.7	6.1	6.2	5.3	6.2	6.4	7.0	6.8	7.6	7.8	8.2	8.3	8.1	9.0	8.8	8.1	7.4	6.9	6.4			
Hourly Max	19.2	19.0	19.1	29.4	26.7	26.4	23.5	24.6	20.7	22.9	29.6	33.6	34.8	31.6	32.2	33.3	34.8	27.9	25.5	23.6	21.5	19.2	19.9	20.3			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

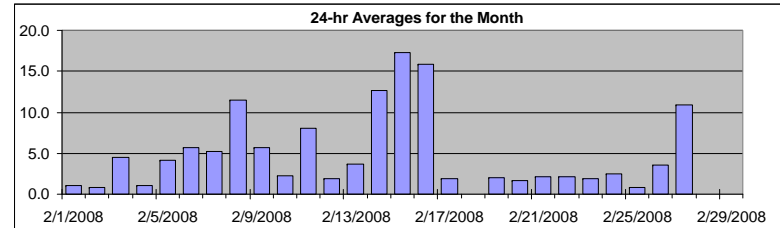
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	34.7	km/hr	27-Feb	16:00 17:00
Maximum 24-hr Value:	17.3	km/hr	15-Feb	



Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.3	20.8	9.0	3.7	1.9	0.6	0.0	6.1 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-Feb-08	3	3	2	2	2	2	3	3	3	3	3	3	1	1	1	2	2	2	3	1	2	2	1	0	1.0	3.5	
2-Feb-08	2	0	0	0	0	2	0	0	1	1	1	1	2	1	1	1	2	4	2	2	0	0	1	2	0.8	3.9	
3-Feb-08	2	1	1	0	1	0	1	6	12	9	8	11	7	7	8	9	7	4	6	7	6	5	2	2	4.5	12.3	
4-Feb-08	3	3	2	3	2	5	3	1	1	1	1	1	1	0	1	3	3	2	3	4	2	3	2	2	1.1	5.1	
5-Feb-08	3	4	5	4	3	3	2	7	7	11	9	8	7	4	3	6	5	19	21	22	19	19	18	18	4.1	21.6	
6-Feb-08	16	17	17	11	10	13	14	11	8	3	2	3	2	2	2	3	3	4	5	6	7	8	10	9	5.7	16.7	
7-Feb-08	9	9	9	7	9	10	8	7	6	7	7	4	2	1	1	1	1	1	5	7	7	6	9	9	5.2	9.8	
8-Feb-08	13	13	15	16	17	16	16	14	11	14	13	13	16	17	16	12	11	5	7	6	2	1	3	4	11.5	17.3	
9-Feb-08	5	2	2	3	2	3	1	3	1	1	0	0	2	2	5	9	11	12	15	17	18	19	18	14	5.7	19.1	
10-Feb-08	10	8	4	3	3	2	6	5	3	4	3	1	1	1	1	0	1	0	2	1	2	1	1	1	2.2	9.6	
11-Feb-08	1	6	7	5	10	3	7	12	6	6	2	4	4	4	5	17	24	24	25	19	14	7	8	7	8.0	25.1	
12-Feb-08	5	5	5	10	9	11	3	4	2	3	4	8	4	5	7	4	1	2	2	3	3	7	4	4	1.9	10.6	
13-Feb-08	2	15	13	10	12	14	10	5	5	8	8	5	2	0	2	2	3	4	3	2	3	1	1	1	3.7	14.6	
14-Feb-08	1	1	2	2	12	20	17	17	6	5	12	14	22	22	24	17	14	14	13	24	21	19	12	3	12.7	24.2	
15-Feb-08	3	4	5	9	10	7	1	3	8	23	30	34	35	32	23	28	28	26	25	19	20	17	20	20	17.3	34.7	
16-Feb-08	19	16	19	29	27	26	23	25	21	20	21	22	17	14	13	11	9	8	14	11	12	7	1	3	15.9	29.3	
17-Feb-08	1	3	1	3	3	2	2	2	2	3	4	6	4	10	10	6	5	6	7	9	4	0	1	1	1.9	10.3	
18-Feb-08	3	1	4	1	2	1	3	1	2	2	3	3	5	3	9	12	12	10	10	13	9	7	7	8	-	13.1	
19-Feb-08	6	1	2	3	3	3	2	1	2	2	2	4	5	4	7	10	9	8	2	2	3	3	2	2	2.0	9.8	
20-Feb-08	2	1	1	3	3	0	3	2	2	2	1	4	3	2	3	4	3	1	2	0	0	1	4	4	1.6	4.3	
21-Feb-08	1	2	3	3	2	2	1	2	3	3	4	2	0	4	1	2	2	4	4	2	4	5	5	1	2.1	4.7	
22-Feb-08	1	0	3	3	3	1	3	3	3	3	3	3	3	3	2	2	2	2	6	4	4	9	8	4	2.1	8.7	
23-Feb-08	4	5	9	7	4	6	2	2	1	2	3	0	2	1	1	3	4	3	1	2	3	5	2	2	1.9	9.3	
24-Feb-08	2	1	2	6	5	2	4	4	3	2	2	4	2	6	6	3	2	2	4	2	3	2	2	6	2.5	6.4	
25-Feb-08	7	7	4	6	5	1	3	3	2	1	1	2	1	1	3	4	1	1	1	1	8	3	7	10	0.9	9.8	
26-Feb-08	4	2	2	1	2	2	3	5	1	5	4	4	4	5	5	5	8	9	9	6	6	5	11	11	3.5	10.7	
27-Feb-08	10	8	5	7	6	4	3	3	1	0	1	1	14	28	32	33	35	28	24	19	21	19	13	11	10.9	34.7	
28-Feb-08	17	19	19	14	14	16	13	14	16	16	19	19	20	21	19	14	15	15	14	10	1	3	4	4	N	21.2	
29-Feb-08	4	2	3	3	1	3	3	2	3	3	3	4	3	8	7	8	9	7	18	22	20	17	13	13	N	22.2	
1-hr Vector	1.0	1.7	1.5	2.2	2.6	2.3	2.6	2.1	2.1	3.1	3.2	3.0	3.7	4.7	3.9	3.9	3.5	3.7	3.0	3.0	2.5	2.0	1.4	0.5			
Hourly Max	18.8	19.0	19.1	29.3	26.7	26.3	23.5	24.5	20.7	22.9	29.6	33.5	34.7	31.6	32.1	33.1	34.7	27.8	25.4	23.5	21.4	19.1	19.7	20.2			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	349.2	335.3	282.1	175.4	89.7	35.3	5.4	300 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-Feb-08	203	201	218	226	217	187	170	165	129	92	104	138	140	119	120	70	41	19	56	85	267	50	61	6	138	SE
2-Feb-08	61	22	228	245	43	13	172	137	290	36	86	299	289	272	1	277	46	295	82	60	101	56	217	59	9	N
3-Feb-08	86	255	90	99	49	52	10	344	339	352	355	339	338	332	333	343	353	348	37	38	32	60	137	102	359	N
4-Feb-08	122	116	133	232	237	171	270	271	183	234	198	177	186	206	177	74	55	71	64	269	101	89	117	111	144	SE
5-Feb-08	92	108	131	121	140	136	122	109	149	129	125	135	138	311	349	311	333	337	339	341	340	338	335	333	357	N
6-Feb-08	330	328	328	335	334	336	330	322	323	328	83	90	110	142	99	76	82	63	53	36	35	40	50	51	356	N
7-Feb-08	34	30	26	0	331	331	330	333	333	328	329	318	275	215	183	106	61	70	60	33	25	0	326	326	354	N
8-Feb-08	329	330	331	332	331	332	334	336	340	332	328	329	317	319	326	322	323	334	349	339	329	324	318	313	329	NNW
9-Feb-08	296	310	44	323	310	62	347	67	83	8	76	91	80	180	129	129	124	126	122	124	122	122	126	122	118	ESE
10-Feb-08	126	131	178	227	202	241	192	195	182	164	158	93	136	207	146	168	89	174	47	60	278	68	73	81	160	SSE
11-Feb-08	160	280	231	230	254	136	250	259	246	236	193	94	184	189	215	276	281	281	281	287	290	305	307	322	270	W
12-Feb-08	346	14	126	130	117	122	166	187	172	291	329	182	191	195	181	190	81	117	248	78	67	16	338	73	144	SE
13-Feb-08	80	46	36	343	341	334	334	359	348	330	333	327	322	243	190	207	121	73	71	98	74	88	218	122	2	N
14-Feb-08	61	93	85	303	289	283	274	266	279	287	272	268	282	281	267	257	258	265	260	261	261	265	283	224	270	W
15-Feb-08	223	249	230	241	247	235	219	197	246	272	264	261	256	258	275	287	283	288	289	286	278	274	267	252	268	W
16-Feb-08	264	282	289	282	284	286	287	291	288	291	293	297	310	312	318	311	308	301	284	282	283	272	216	245	290	WNW
17-Feb-08	93	76	81	79	82	86	101	148	79	62	262	278	282	284	286	294	304	306	261	282	313	46	139	143	293	WNW
18-Feb-08	77	87	69	310	262	103	75	148	238	148	80	82	71	82	288	298	294	290	295	275	274	303	286	269	293	WNW
19-Feb-08	264	237	141	93	100	94	74	76	82	71	321	333	341	301	5	20	36	40	47	191	68	112	167	105	36	NE
20-Feb-08	113	193	125	70	86	96	78	85	132	129	117	84	85	67	77	75	90	107	96	74	299	51	314	282	87	E
21-Feb-08	234	153	72	63	58	94	118	78	84	78	79	93	67	64	116	113	119	127	94	10	5	32	355	114	72	ENE
22-Feb-08	233	249	79	83	95	140	112	108	104	117	81	75	69	60	94	68	116	284	314	9	17	339	4	18	50	NE
23-Feb-08	349	326	332	333	34	346	359	56	350	300	35	303	280	339	197	261	192	137	177	334	45	39	106	118	352	N
24-Feb-08	139	102	4	44	51	62	27	32	319	51	16	2	34	35	35	95	101	174	107	137	135	287	96	94	57	ENE
25-Feb-08	107	94	98	93	88	180	147	110	270	269	198	237	79	130	91	83	233	229	118	184	261	280	272	269	161	SSE
26-Feb-08	260	63	63	128	72	107	181	64	86	315	232	201	86	91	89	99	115	91	90	86	87	115	116	117	106	ESE
27-Feb-08	115	113	185	193	120	140	180	174	207	307	220	201	272	263	265	273	272	273	276	271	280	283	281	281	264	W
28-Feb-08	284	287	286	282	286	287	283	285	284	282	282	281	284	272	274	273	263	269	286	265	237	115	102	94	280	W
29-Feb-08	119	127	144	169	180	199	212	93	80	102	90	89	165	127	110	107	70	103	115	118	121	121	124	121	118	ESE
Hourly Avg	320	344	335	304	308	304	294	299	294	302	295	286	284	280	285	292	294	296	306	300	308	340	318	336		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	89.5	76.5	45.9	18.6	8.1	3.4	2.3

Status Flag Characters

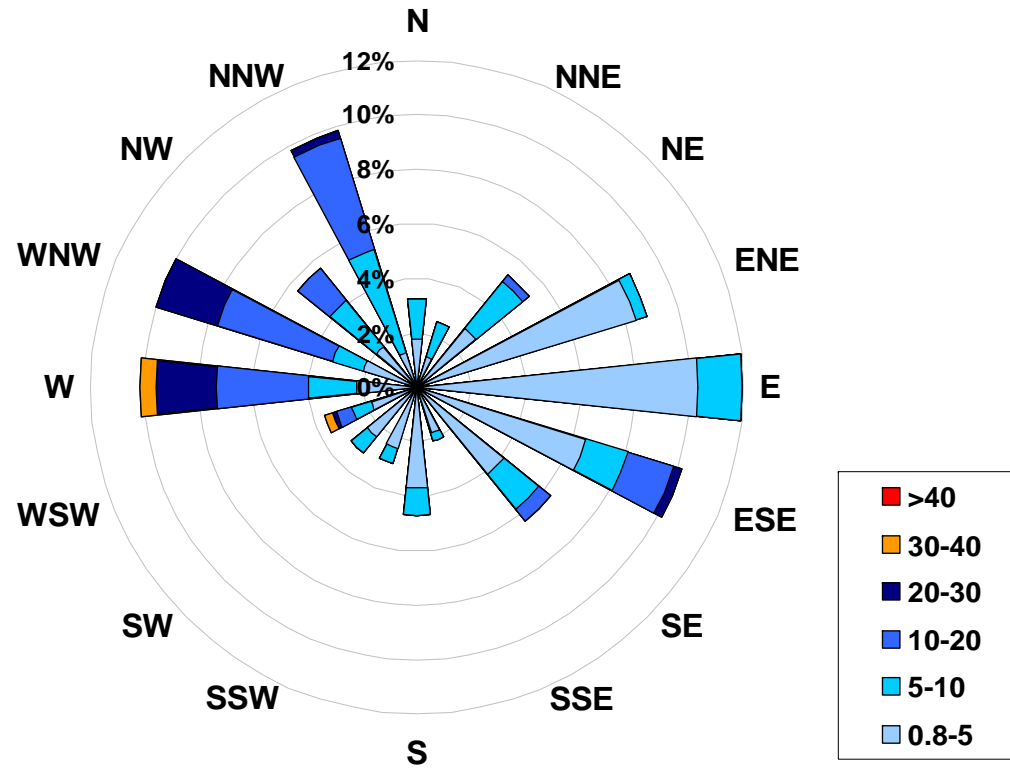
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	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-Feb-08	18	15	16	11	13	24	18	18	7	9	22	27	24	20	32	46	8	74	47	39	34	78					78.3	
2-Feb-08	37	87	67	78	80	58	72	46	75	64	59	83	16	73	66	56	84	38	69	50	89	91	71	39			91.0	
3-Feb-08	20	58	12	87	80	96	68	20	3	12	18	7	14	7	6	10	13	21	8	5	14	26	21	15			95.9	
4-Feb-08	10	11	65	26	58	20	21	57	72	51	37	11	65	49	34	14	40	42	34	75	18	11	48	25			75.4	
5-Feb-08	15	15	21	19	24	26	66	19	18	5	4	9	15	74	70	28	42	15	7	6	5	6	6	6			73.6	
6-Feb-08	7	6	5	7	8	7	6	8	7	12	46	9	24	35	16	12	12	9	9	7	5	5	7	7			45.6	
7-Feb-08	7	7	10	16	10	6	5	7	7	7	8	16	22	60	42	29	57	31	17	9	19	20	8	8			60.1	
8-Feb-08	7	7	5	7	4	5	5	9	9	7	6	8	7	7	6	7	7	17	13	14	18	44	31	15			44.3	
9-Feb-08	7	75	34	53	68	28	65	42	84	66	61	80	16	33	16	8	6	5	5	4	5	5	5	5			83.5	
10-Feb-08	8	8	32	10	14	18	12	8	17	17	24	46	64	57	58	36	45	68	74	20	69	32	59	78			78.4	
11-Feb-08	75	64	20	32	27	36	70	15	12	18	50	37	23	16	10	26	3	2	3	3	3	6	4	8			75.3	
12-Feb-08	22	10	31	6	8	8	68	61	77	76	37	18	24	12	11	16	63	49	84	33	14	48	46	17			83.6	
13-Feb-08	20	9	10	13	5	4	19	19	17	10	4	9	42	90	49	35	21	18	12	39	23	60	60	64			90.2	
14-Feb-08	36	34	59	80	3	6	6	3	12	29	15	10	3	4	6	6	4	13	13	4	7	7	9	47			79.8	
15-Feb-08	55	20	37	48	23	7	76	35	18	4	3	3	4	3	9	5	5	4	3	7	4	6	9	5			76.0	
16-Feb-08	11	6	5	4	3	3	3	2	3	3	3	4	7	4	6	4	7	11	3	4	5	53	73	72			72.8	
17-Feb-08	56	17	40	17	12	18	20	48	71	44	15	17	35	41	6	14	17	6	29	15	54	83	71	52			83.1	
18-Feb-08	17	66	7	72	47	38	26	52	75	58	28	21	13	23	71	4	3	3	9	7	24	10	14	11			74.9	
19-Feb-08	7	54	52	29	24	30	15	73	35	65	40	42	24	22	14	9	4	3	89	61	56	28	30	58			89.0	
20-Feb-08	33	64	44	50	38	86	39	16	22	30	64	9	15	11	9	10	13	13	19	80	90	68	60	28			89.5	
21-Feb-08	60	51	26	23	21	30	35	62	15	17	10	32	87	8	32	28	14	13	11	70	40	35	21	71			86.6	
22-Feb-08	65	44	9	9	17	69	19	28	19	32	12	8	14	9	12	35	52	71	14	23	23	13	10	31			71.3	
23-Feb-08	27	24	6	39	44	47	72	61	82	68	67	95	72	69	57	15	18	39	75	70	27	7	46	25			94.9	
24-Feb-08	20	86	41	11	27	63	51	62	56	40	42	38	94	19	11	29	70	64	9	47	26	43	78	13			94.2	
25-Feb-08	6	12	22	8	29	56	46	48	68	83	60	51	20	27	16	13	58	37	66	78	12	73	12	7			83.1	
26-Feb-08	74	27	58	78	44	34	38	15	64	55	55	32	10	13	15	19	11	12	10	19	16	52	6	3			77.9	
27-Feb-08	3	19	35	18	19	44	36	31	50	92	97	79	28	8	4	5	4	5	3	7	3	3	3	3			96.5	
28-Feb-08	2	2	2	4	2	2	2	2	2	2	3	3	5	9	10	9	4	7	8	13	74	41	8	18			73.6	
29-Feb-08	10	25	18	26	73	15	13	55	45	28	19	26	48	8	8	17	21	52	6	5	3	3	9	7			73.4	

Hourly Max	75	87	67	87	80	96	76	73	84	92	97	95	94	90	71	56	84	71	89	80	90	91	78	78
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	385
5	to	10	155
10	to	20	114
20	to	30	36
30	to	40	6
	>	40	0
Total Non-Zero Values			696

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

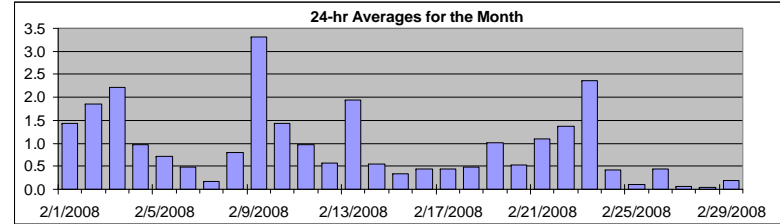
Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 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:	8.6	ppb	13-Feb	11:00	12:00
Maximum 24-hr Average:	3.3	ppb	9-Feb		



AIC Time:	32 hrs		Operational Time:	662 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	5.2	2.8	1.2	0.7	0.2	0.0	0.0	0.9 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																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	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-Feb-08	2	2	2	2	A	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	1.4	2.0
2-Feb-08	2	2	2	A	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.9	2.7
3-Feb-08	2	2	A	2	2	2	1	2	2	2	2	3	4	3	3	3	3	3	2	2	1	1	3	2	2	2.2	3.7	
4-Feb-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	1	1	1.0	1.3
5-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	0.7	1.1	
6-Feb-08	1	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0.5	1.1
7-Feb-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	0.2	0.4
8-Feb-08	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3	
9-Feb-08	1	1	2	2	3	8	6	5	5	3	4	4	4	4	5	5	4	3	2	A	1	1	1	1	1	3.3	7.6	
10-Feb-08	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	2	2	2	A	2	2	2	2	2	1.4	2.2	
11-Feb-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	1	1.0	1.3	
12-Feb-08	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0.6	0.9	
13-Feb-08	0	1	1	3	1	7	3	1	1	2	2	9	3	2	3	A	2	1	1	1	1	0	0	0	0	1.9	8.6	
14-Feb-08	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0.5	0.7	
15-Feb-08	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0.3	0.9	
16-Feb-08	1	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	0	0	1	1	0	1	0	0	0.4	1.2	
17-Feb-08	0	0	0	0	0	0	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	1	0.4	1.2	
18-Feb-08	1	1	1	1	1	1	1	1	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9	
19-Feb-08	0	0	0	1	1	0	0	1	1	A	1	1	1	2	1	2	2	2	2	2	1	1	1	1	1	1.0	2.0	
20-Feb-08	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	0.5	0.9	
21-Feb-08	1	1	1	1	0	0	0	A	0	0	C	C	A	0	0	0	0	1	1	1	6	3	3	2	1	1.1	5.6	
22-Feb-08	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	7	1.4	6.8	
23-Feb-08	7	4	A	3	3	3	3	2	2	2	2	3	3	3	3	2	2	1	1	1	1	1	1	1	1	2.4	6.8	
24-Feb-08	1	A	1	1	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	0.9	
25-Feb-08	A	1	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	0.7	
26-Feb-08	0	0	1	A	2	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.4	
27-Feb-08	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	0.1	0.6	
28-Feb-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	0.0	0.3	
29-Feb-08	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.9	
Hourly Avg	1.0	0.9	0.8	0.9	0.9	1.3	1.0	0.9	1.0	0.9	1.0	1.3	1.1	1.0	1.0	0.9	1.0	0.8	0.7	0.8	0.7	0.7	0.8	0.9				
Hourly Max	6.8	3.8	2.4	3.5	3.4	7.6	5.9	4.8	4.9	3.4	3.5	8.6	4.5	4.3	4.6	5.0	4.3	3.0	2.0	5.6	3.4	2.5	2.7	6.8				

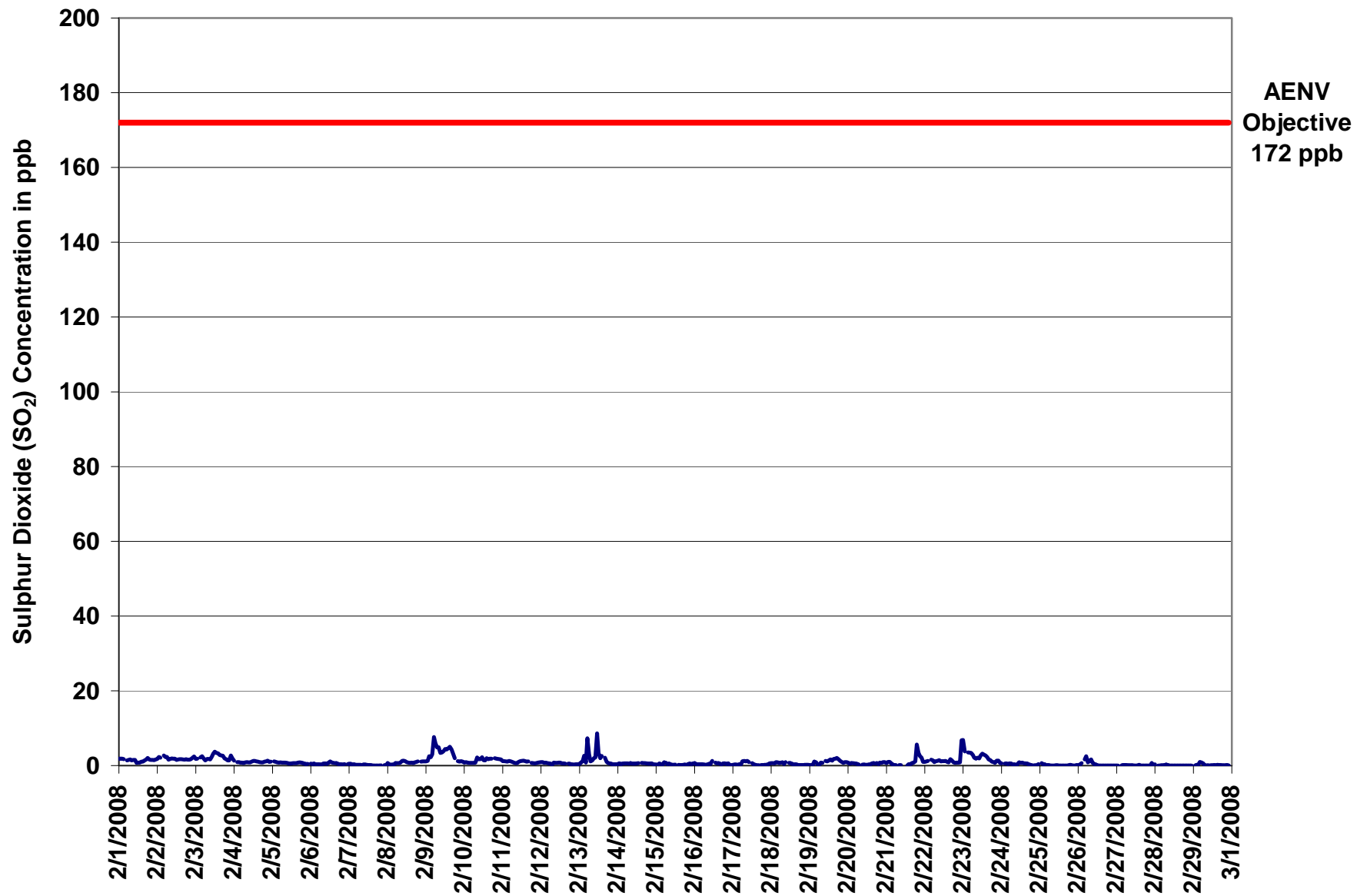


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

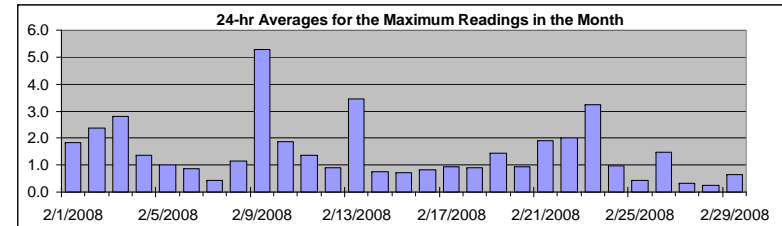
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	22.2	ppb	9-Feb	2:00 3:00
Maximum 24-hr Value:	5.3	ppb	9-Feb	



AIC Time:	32 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.3	4.2	1.7	1.1	0.6	0.1	0.0	1.5 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

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-Feb-08	2	2	2	2	A	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	1.8	2.3
2-Feb-08	2	3	3	A	4	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2.4	3.8
3-Feb-08	2	2	A	2	3	2	2	2	2	2	4	4	4	4	4	3	3	3	3	2	2	2	4	3	2.8	4.3
4-Feb-08	2	A	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	1	1	2	2	1	1	1.4	1.9
5-Feb-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	1.3
6-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	0	0.9	1.6
7-Feb-08	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.7
8-Feb-08	1	1	0	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	A	1	2	2	1.2	1.7
9-Feb-08	1	9	22	3	5	9	9	6	6	4	5	4	5	5	5	6	5	4	2	A	1	1	1	1	5.3	22.2
10-Feb-08	1	1	1	1	1	1	1	2	3	2	2	3	2	2	2	2	2	A	2	2	2	2	2	2	1.9	3.4
11-Feb-08	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	1	1	A	1	1	1	1	1	1	1.4	1.7
12-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0	1	1	0.9	1.3
13-Feb-08	1	1	2	5	2	13	5	3	3	4	8	13	5	3	3	A	3	1	1	1	1	1	1	1	3.4	13.4
14-Feb-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	1.2
15-Feb-08	0	0	1	1	0	2	1	1	1	1	0	0	0	A	0	0	0	0	0	0	1	1	1	1	0.7	2.3
16-Feb-08	1	1	1	0	0	0	0	1	1	1	1	2	A	1	1	1	1	1	1	1	1	1	1	1	0.8	2.1
17-Feb-08	0	1	1	1	1	1	4	2	2	2	2	A	1	1	1	1	0	0	1	1	1	1	1	1	0.9	3.6
18-Feb-08	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.6
19-Feb-08	1	0	1	2	2	1	1	1	1	A	2	2	2	2	2	2	2	2	2	2	1	1	2	1	1.4	2.2
20-Feb-08	1	1	1	1	1	1	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	0.9	1.6
21-Feb-08	1	2	2	1	1	1	1	A	1	1	C	C	A	0	1	1	1	1	2	9	6	5	3	2	1.9	8.8
22-Feb-08	1	2	2	A	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2	1	1	1	2	10	2.0	10.2
23-Feb-08	9	8	A	4	4	5	4	3	3	3	3	4	4	3	3	3	2	2	2	1	1	2	2	2	3.2	9.3
24-Feb-08	2	A	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1.0	4.5
25-Feb-08	A	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	2	1	1	1	1	0	1	0.4	1.5
26-Feb-08	1	1	1	A	6	10	4	5	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1.5	10.1
27-Feb-08	0	0	A	0	1	1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	2	1	0.3	1.5
28-Feb-08	1	A	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
29-Feb-08	A	0	1	2	2	2	1	1	0	0	1	1	0	1	0	1	1	1	1	1	1	1	1	A	0.7	2.1
Hourly Avg	1.5	1.7	1.9	1.4	1.6	2.4	1.7	1.4	1.5	1.4	1.6	1.9	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.4		
Hourly Max	9.3	9.2	22.2	5.2	6.0	13.2	8.6	6.1	6.0	4.2	8.1	13.4	5.1	4.7	5.2	5.7	4.7	4.2	2.8	8.8	5.6	4.8	3.8	10.2		

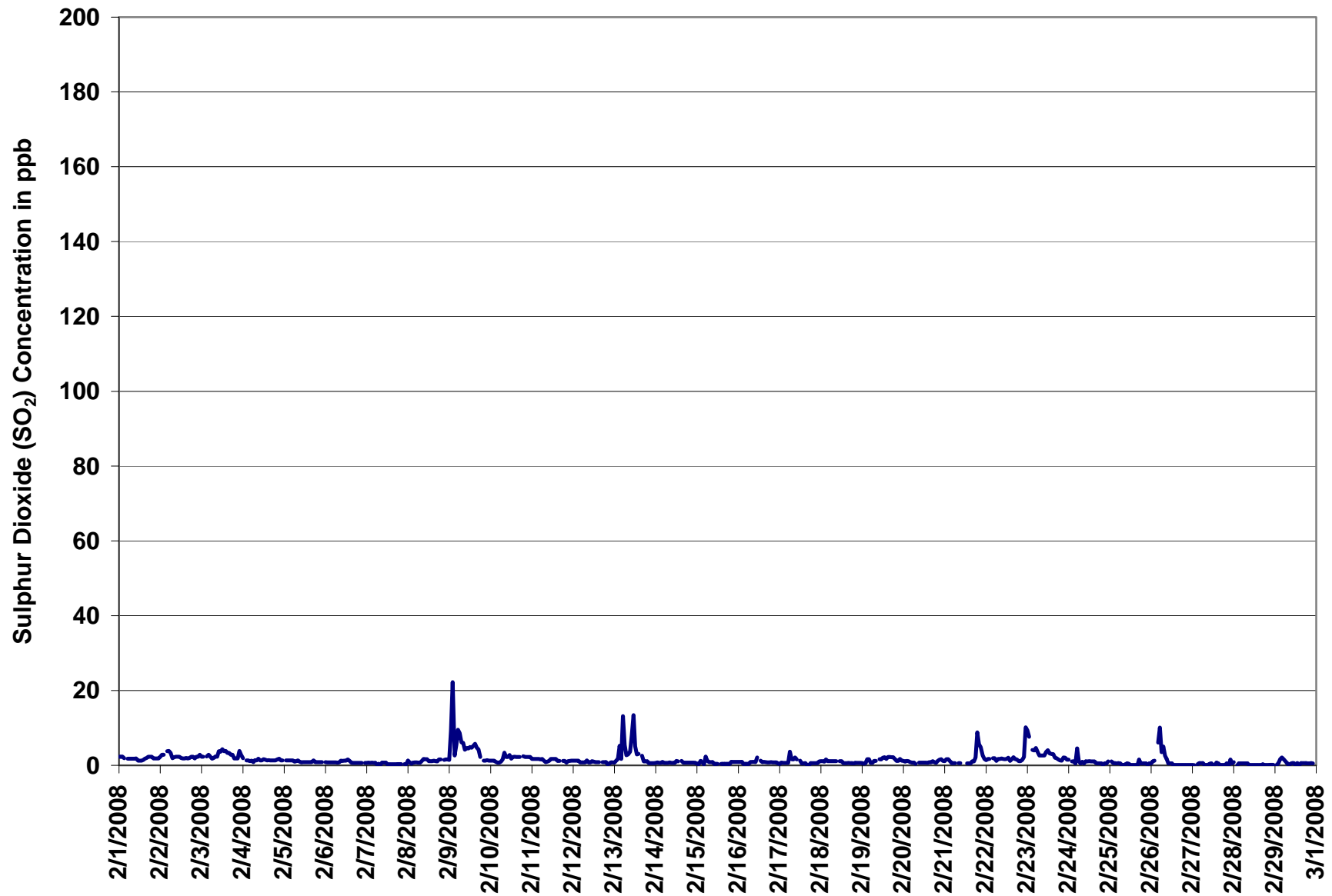
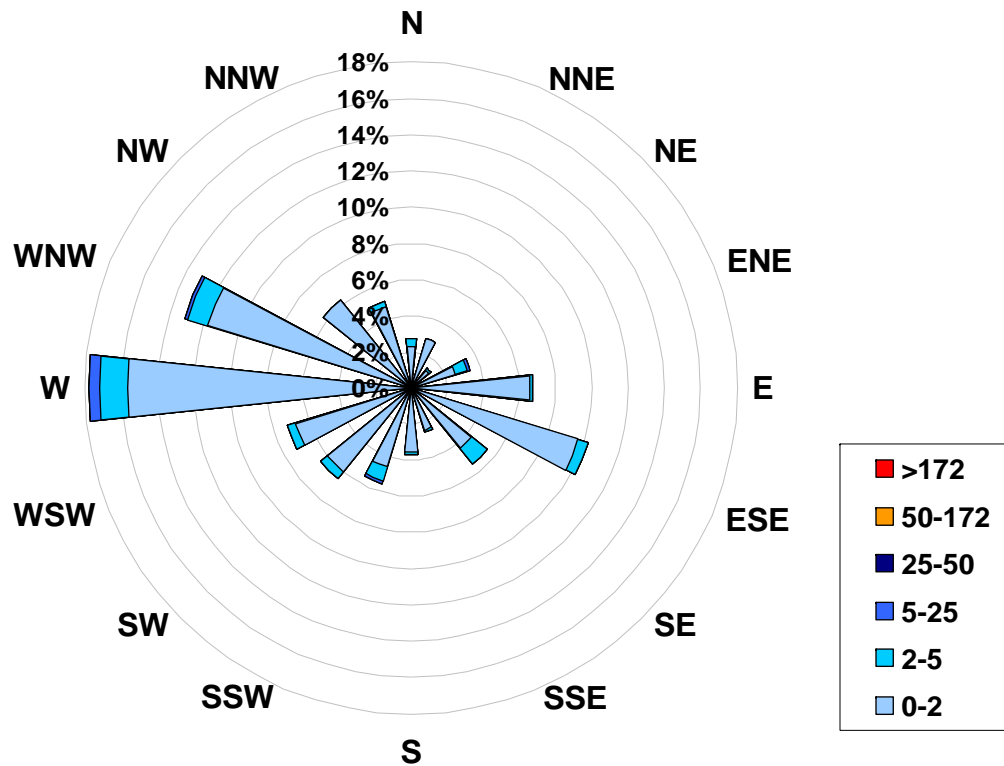


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range	Frequency (hrs)		
0.0 < 2	598		
2 to 5	57		
5 to 25	7		
25 to 50	0		
50 to 172	0		
> 172	0		
Total Non-Zero Values	662		

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

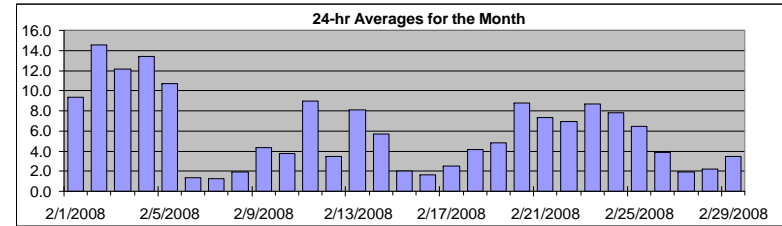
Monitoring Dates: February 1, 2008 to March 1, 2008

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:	24.0 ppb 4-Feb 21:00 22:00
Maximum 24-hr Average:	14.5 ppb 2-Feb

AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.3	16.8	8.0	4.3	2.0	1.0	0.7	5.9 ppb	4.3 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 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-Feb-08	9	8	11	13	A	9	10	10	9	9	9	5	4	3	4	5	7	8	11	11	14	15	15	16	9.4	16.1	
2-Feb-08	18	17	18	A	16	16	16	18	18	15	10	7	6	6	7	7	8	11	13	19	22	22	23	22	14.5	23.1	
3-Feb-08	23	22	A	19	16	15	16	17	18	13	10	9	7	6	6	6	7	9	10	8	10	9	12	12	12.1	22.8	
4-Feb-08	11	A	12	13	11	13	12	11	12	20	9	7	7	7	7	7	8	11	17	22	21	24	22	22	13.4	24.0	
5-Feb-08	A	19	19	18	17	18	15	16	18	13	10	9	8	8	8	9	10	5	4	4	3	2	2	A	10.7	18.8	
6-Feb-08	2	1	1	1	1	1	1	1	1	2	4	1	2	1	1	1	1	1	1	1	1	2	A	2	1.4	4.3	
7-Feb-08	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	3	4	1.3	3.5	
8-Feb-08	4	3	2	1	1	1	1	2	2	2	3	2	1	1	1	1	2	2	3	A	3	3	3	3	1.9	4.1	
9-Feb-08	3	3	3	4	4	6	6	5	9	4	4	4	4	4	4	6	6	5	5	A	4	3	2	2	4.3	9.0	
10-Feb-08	1	1	1	1	1	2	2	2	3	3	3	2	2	2	2	3	4	5	A	6	8	12	12	9	3.8	12.3	
11-Feb-08	12	10	11	16	14	12	10	9	11	10	7	5	5	5	4	5	6	A	8	9	11	15	8	4	8.9	16.3	
12-Feb-08	4	4	2	2	2	1	1	1	2	2	2	2	2	2	2	2	A	3	3	3	10	7	12	10	3.5	12.2	
13-Feb-08	6	4	4	8	9	6	6	7	10	7	6	6	4	4	5	A	7	15	19	19	17	9	4	4	8.1	19.3	
14-Feb-08	3	3	5	3	4	5	7	5	4	3	2	2	3	4	A	6	6	8	7	8	9	17	11	3	5.6	17.2	
15-Feb-08	3	2	3	2	2	3	3	2	2	2	2	2	2	A	2	2	2	2	2	2	2	2	2	2	2	2.1	2.7
16-Feb-08	2	1	1	0	0	1	1	1	2	1	2	2	A	1	2	2	1	1	4	3	3	4	2	1	1.6	3.6	
17-Feb-08	2	2	1	2	2	2	2	3	3	5	5	A	2	2	2	2	1	1	3	3	5	2	2	4	2.5	5.1	
18-Feb-08	4	3	3	3	2	2	3	6	6	6	A	4	5	5	4	4	5	6	5	4	3	4	4	4	4.2	6.4	
19-Feb-08	4	4	4	3	3	2	2	3	4	A	6	5	4	3	3	3	4	5	14	10	5	6	5	9	4.8	14.2	
20-Feb-08	7	8	8	8	8	9	6	5	A	8	9	6	5	4	5	9	11	15	16	17	12	8	8	10	8.8	16.8	
21-Feb-08	4	4	6	6	5	4	4	A	14	9	C	C	C	C	7	7	8	13	12	14	9	4	4	5	7.3	14.3	
22-Feb-08	6	7	6	A	7	13	5	7	6	7	7	6	6	7	6	5	6	7	12	9	7	5	4	4	6.9	12.7	
23-Feb-08	4	4	A	6	7	19	8	9	13	12	10	7	7	7	7	6	6	6	7	7	10	10	13	12	8.7	19.3	
24-Feb-08	9	A	8	13	11	19	11	11	16	8	7	6	5	4	4	4	4	4	6	9	6	6	5	5	7.8	18.7	
25-Feb-08	A	4	3	3	4	6	7	6	8	12	8	6	4	3	3	4	5	13	7	9	9	9	7	7	6.4	12.6	
26-Feb-08	6	6	5	A	6	5	7	6	7	5	6	4	2	2	2	2	2	2	3	3	2	2	1	1	3.8	7.4	
27-Feb-08	1	1	A	2	2	2	3	3	4	3	4	4	2	1	2	2	1	1	1	1	1	1	1	1	1.9	4.2	
28-Feb-08	1	A	2	1	1	2	2	1	2	2	2	2	1	1	1	1	2	2	4	4	4	4	4	4	2.2	4.5	
29-Feb-08	A	5	4	2	3	3	3	4	3	3	4	3	3	4	5	6	5	3	3	3	2	2	2	A	3.4	6.3	
Hourly Avg	5.8	5.7	5.6	5.8	5.7	6.8	5.9	6.1	7.5	6.7	5.7	4.4	3.8	3.6	3.8	4.2	4.7	5.9	7.2	7.5	7.6	7.5	7.0	6.7			
Hourly Max	22.8	22.3	18.8	18.7	17.4	19.3	16.5	17.5	17.9	20.3	10.4	8.7	7.9	7.8	7.7	9.3	10.8	15.5	19.3	22.4	22.4	24.0	23.1	22.4			

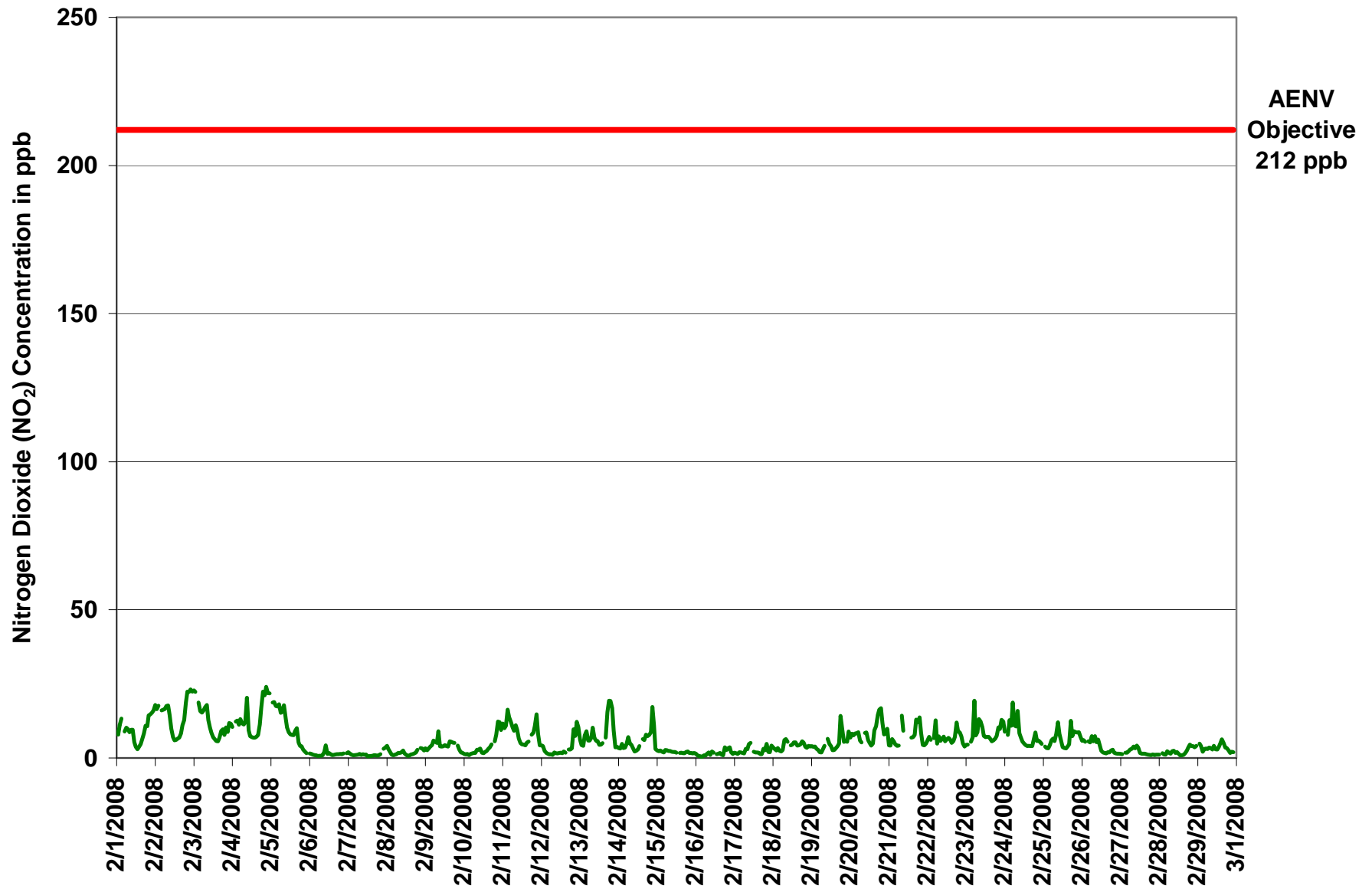


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

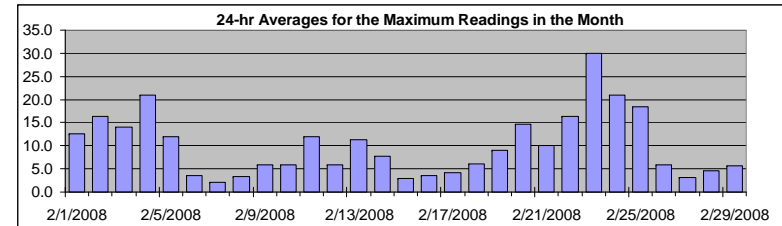
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	446.1	ppb	23-Feb	5:00 6:00
Maximum 24-hr Value:	30.1	ppb	23-Feb	



AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.2	21.0	11.4	6.4	3.3	1.4	1.1	10.0 ppb	6.4 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	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-Feb-08	10	9	16	A	11	11	21	18	12	12	8	5	5	4	6	10	11	15	17	17	18	19	17	12.5	21.0	
2-Feb-08	19	18	18	A	19	19	18	20	19	17	12	8	10	6	9	8	10	13	15	23	24	24	24	16.3	24.2	
3-Feb-08	24	23	A	20	17	18	18	20	20	15	12	9	9	7	6	7	9	14	13	12	12	11	15	14.1	23.9	
4-Feb-08	12	A	13	14	12	15	12	12	14	121	50	9	8	9	8	9	10	15	22	23	24	26	23	22	20.9	120.8
5-Feb-08	A	20	20	19	19	19	17	18	19	16	11	10	8	8	8	12	13	10	5	5	3	3	2	A	12.0	19.9
6-Feb-08	2	2	2	1	1	1	2	1	2	5	41	2	3	2	1	1	1	1	2	1	2	1	A	2	3.5	40.6
7-Feb-08	2	2	2	1	1	1	2	2	1	2	2	3	1	1	3	2	2	3	1	2	3	A	6	4	2.1	5.9
8-Feb-08	5	6	3	3	1	2	2	4	3	3	4	6	2	1	3	2	3	3	2	4	A	5	5	3	3.3	5.9
9-Feb-08	10	3	4	6	6	6	6	7	14	5	7	6	5	5	5	7	6	6	7	A	5	4	3	2	5.8	14.1
10-Feb-08	3	2	2	1	6	2	2	2	3	5	6	3	2	10	3	6	6	6	A	8	13	18	15	12	5.9	17.8
11-Feb-08	13	11	13	20	17	14	14	13	21	15	8	6	5	5	5	6	8	A	9	16	16	23	14	6	12.0	22.7
12-Feb-08	5	5	4	2	2	1	2	2	4	4	2	2	2	2	18	4	A	4	14	4	14	13	15	12	5.9	17.6
13-Feb-08	8	5	4	13	13	8	10	8	30	11	8	6	6	5	6	A	10	22	21	22	19	18	5	5	11.3	29.7
14-Feb-08	5	4	7	4	4	7	8	6	6	6	3	3	4	6	A	8	7	11	9	12	12	22	23	3	7.8	23.4
15-Feb-08	3	3	3	2	2	3	3	4	3	3	4	5	3	A	3	2	2	2	3	6	2	3	2	2	2.8	5.6
16-Feb-08	2	1	1	1	1	1	1	6	8	2	8	4	A	2	3	3	2	1	15	4	5	4	3	2	3.5	15.2
17-Feb-08	2	2	3	3	2	2	2	5	5	6	8	A	3	3	7	7	2	2	6	5	8	4	6	6	4.2	8.3
18-Feb-08	4	4	3	4	6	3	3	11	11	7	A	6	5	6	7	6	8	8	11	7	6	6	5	4	6.2	11.2
19-Feb-08	5	4	6	4	3	2	4	7	6	A	40	16	15	6	4	4	6	6	21	14	9	7	7	11	9.0	40.1
20-Feb-08	8	9	9	10	11	10	8	7	A	11	31	8	7	6	11	17	18	66	18	18	17	11	13	13	14.6	66.4
21-Feb-08	6	6	11	8	6	6	7	A	19	13	C	C	C	C	7	10	11	17	14	17	14	6	5	7	10.0	19.4
22-Feb-08	8	8	7	A	9	157	6	10	7	10	11	7	9	8	9	9	7	16	15	11	24	16	8	5	16.3	157.0
23-Feb-08	5	7	A	6	13	446	15	11	17	16	12	10	9	9	8	7	6	7	10	11	15	16	20	16	30.1	446.1
24-Feb-08	14	A	11	15	13	253	13	12	23	15	9	8	6	6	11	11	4	4	11	12	8	7	9	9	21.0	253.3
25-Feb-08	A	6	6	4	6	16	10	8	11	18	11	7	5	4	4	4	5	238	9	12	10	11	11	10	18.4	237.6
26-Feb-08	7	6	7	A	6	7	11	11	13	9	9	8	4	4	2	2	7	2	4	4	2	2	2	2	5.8	13.4
27-Feb-08	2	1	A	2	2	8	5	5	9	4	7	5	2	2	2	2	2	2	2	1	3	1	1	2	3.1	8.8
28-Feb-08	1	A	2	1	1	18	4	5	5	8	3	3	2	2	1	2	5	5	8	12	5	5	4	5	4.6	17.6
29-Feb-08	A	6	5	5	3	4	4	7	4	3	7	4	3	4	7	12	8	7	12	7	2	6	2	A	5.6	11.8
Hourly Avg	7.1	6.5	7.0	7.2	7.3	36.5	7.6	8.6	11.2	12.9	12.4	6.3	5.2	4.9	5.9	6.3	6.7	17.9	10.5	10.4	10.5	10.3	9.5	8.2		
Hourly Max	23.9	22.8	19.5	20.4	19.0	446.1	17.8	21.0	29.7	120.8	49.6	16.1	15.4	10.4	17.6	17.1	18.4	237.6	22.4	22.9	24.4	25.8	23.7	23.5		

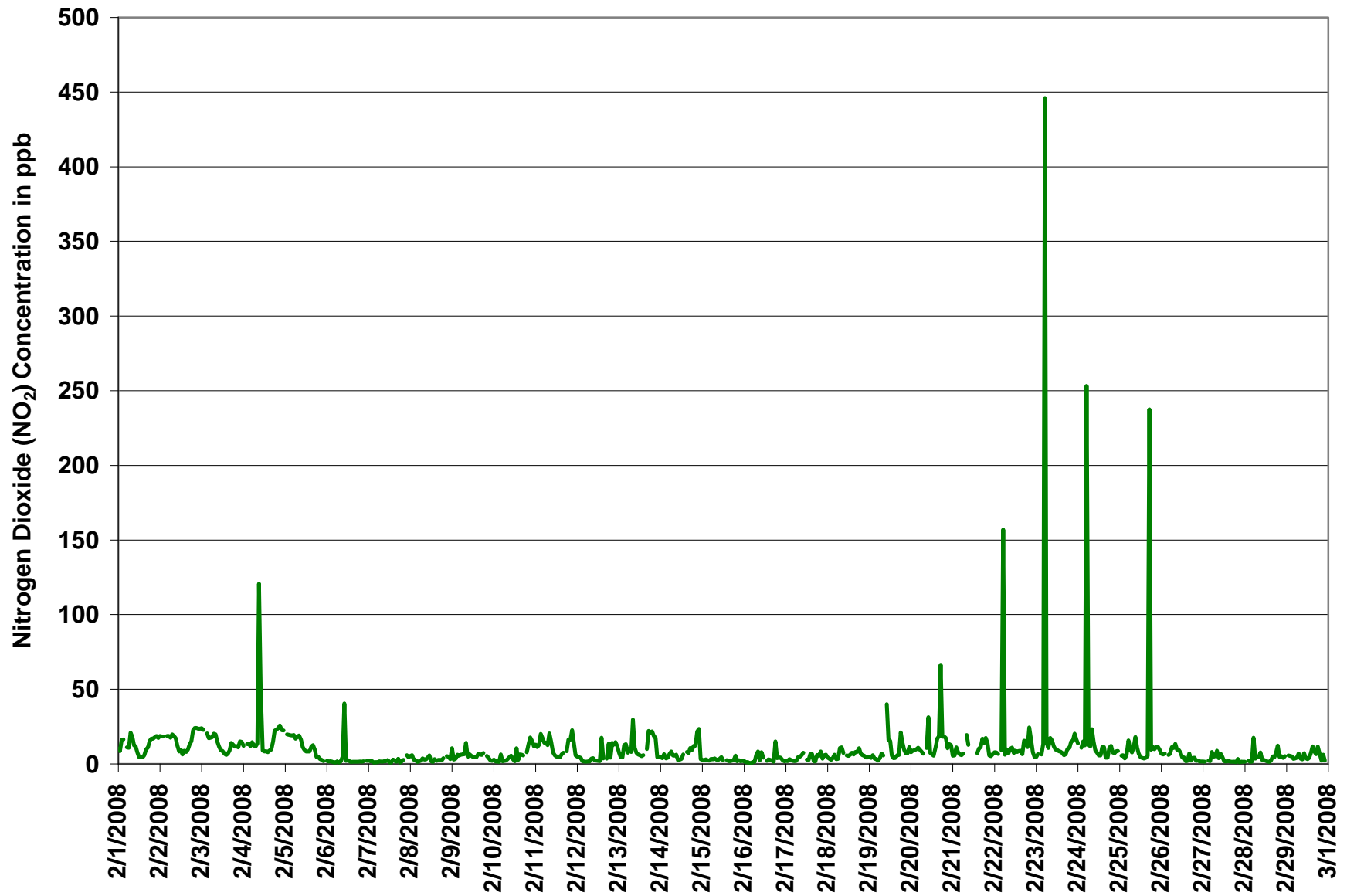
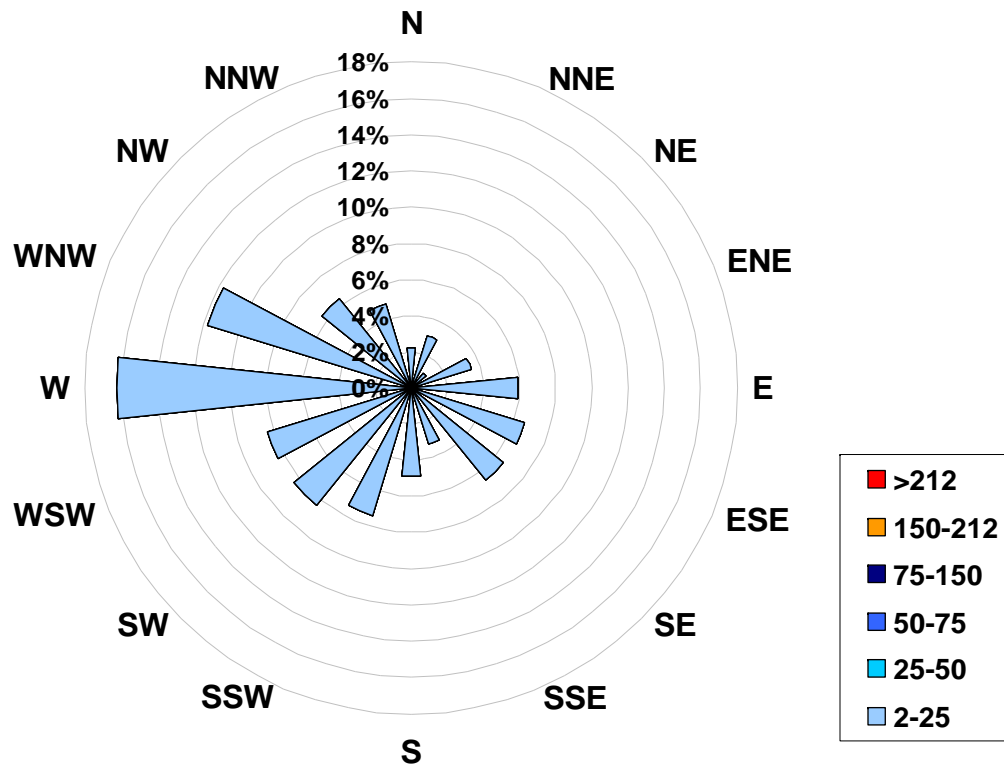


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		661
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			661

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

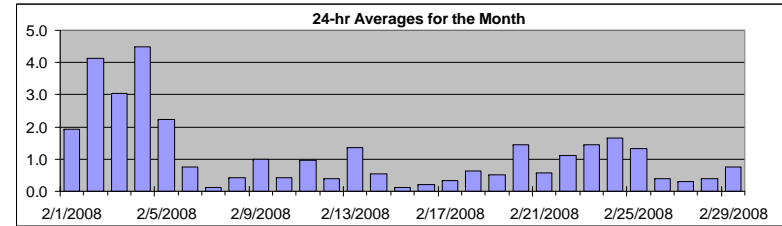
Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	15.4	ppb	24-Feb	5:00 6:00
Maximum 24-hr Average:	4.5	ppb	4-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.0	5.7	1.1	0.2	0.0	0.0	0.0	1.1 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	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-Feb-08	0	0	0	0	A	0	0	1	0	4	9	7	5	4	5	4	3	1	2	0	0	1	0	0	1.9	8.7
2-Feb-08	0	0	0	A	0	0	0	0	1	9	12	10	10	10	9	7	5	1	0	1	2	5	6	4	4.1	12.0
3-Feb-08	3	3	A	0	0	0	0	1	2	8	12	10	9	7	6	4	3	1	0	0	0	0	0	0	3.0	11.8
4-Feb-08	0	A	0	0	0	1	0	0	0	14	9	9	9	9	9	7	4	3	4	8	3	8	3	2	4.5	14.3
5-Feb-08	A	0	0	0	0	0	0	0	1	6	7	7	8	6	5	4	2	0	0	0	0	0	0	A	2.2	7.7
6-Feb-08	0	0	0	0	0	0	0	0	0	1	11	1	1	1	1	0	0	0	0	0	0	0	A	0	0.7	11.5
7-Feb-08	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.7
8-Feb-08	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	0	0	0	A	0	0	0	0.4	1.9
9-Feb-08	0	0	0	0	0	0	0	0	0	1	2	3	4	4	3	3	2	0	0	A	0	0	0	0	1.0	3.9
10-Feb-08	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	0	0	0	0	0	0.4	1.4
11-Feb-08	0	0	0	0	0	0	0	0	1	3	3	3	2	2	3	3	2	A	0	0	0	0	0	0	1.0	3.3
12-Feb-08	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	0	2	0	1	0	0	0	0.4	2.3
13-Feb-08	0	0	0	0	0	0	0	0	3	2	3	4	4	4	A	A	3	3	0	0	0	0	0	0	1.4	4.2
14-Feb-08	0	0	0	0	0	0	0	0	0	1	1	1	1	2	A	3	2	1	0	0	0	0	0	0	0.5	3.0
15-Feb-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	0.4
16-Feb-08	0	0	0	0	0	0	0	0	0	0	1	1	A	0	1	0	0	0	0	0	0	0	0	0	0.2	0.9
17-Feb-08	0	0	0	0	0	0	0	0	0	0	1	2	A	1	1	1	0	0	0	0	0	0	0	0	0.3	2.3
18-Feb-08	0	0	0	0	0	0	0	0	0	1	A	2	2	3	2	1	1	0	0	0	0	0	0	0	0.6	2.6
19-Feb-08	0	0	0	0	0	0	0	0	0	A	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0.5	3.2
20-Feb-08	0	0	0	0	0	0	0	0	A	2	6	4	3	2	2	5	3	4	0	0	0	0	0	0	1.4	6.1
21-Feb-08	0	0	0	0	0	0	0	A	1	2	C	C	C	C	2	2	2	1	0	0	0	0	0	0	0.6	2.5
22-Feb-08	0	0	0	A	0	5	0	0	0	2	4	3	3	3	2	1	1	1	0	0	0	0	0	0	1.1	5.0
23-Feb-08	0	0	A	0	0	9	0	0	1	3	4	4	3	3	3	2	1	1	0	0	0	0	0	0	1.4	9.2
24-Feb-08	0	A	0	0	0	15	0	0	3	3	4	3	2	2	1	1	1	0	0	0	0	0	0	0	1.7	15.4
25-Feb-08	A	0	0	0	0	0	0	0	1	6	4	3	2	2	1	1	1	7	0	0	0	1	0	0	1.3	7.2
26-Feb-08	0	0	0	A	0	0	0	0	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0.4	2.5
27-Feb-08	0	0	A	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.3
28-Feb-08	0	A	0	0	0	1	0	0	0	1	1	2	1	1	0	0	1	0	0	0	0	0	0	0	0.4	1.6
29-Feb-08	A	0	0	0	0	0	0	0	0	1	2	2	2	2	2	3	1	0	0	0	0	0	0	A	0.7	2.7
Hourly Avg	0.2	0.2	0.1	0.1	0.1	1.1	0.1	0.2	0.7	2.6	4.0	3.3	3.0	2.6	2.4	2.1	1.4	1.0	0.4	0.4	0.3	0.6	0.4	0.3		
Hourly Max	3.0	2.8	0.3	0.4	0.2	15.4	0.3	0.9	3.4	14.3	12.0	10.2	9.9	9.8	9.2	7.5	4.7	7.2	3.6	7.7	3.2	7.8	5.6	3.7		

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

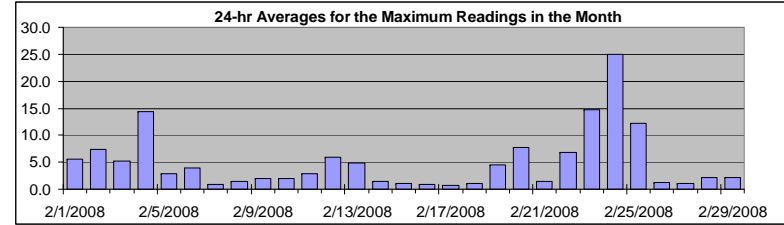
Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	504.0	ppb	24-Feb	5:00 6:00
Maximum 24-hr Value:	25.0	ppb	24-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%					
Percentile	95	75	50	25	5	1	Average	Median
	65.4	12.2	3.8	1.1	0.2	0.0	5.0 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

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-Feb-08	0	0	1	0	A	0	0	9	5	12	14	11	7	7	5	6	8	2	20	2	0	14	2	0	5.5	19.6
2-Feb-08	0	0	0	A	0	4	1	4	5	13	13	12	19	11	18	11	6	3	1	7	10	8	8	12	7.3	19.4
3-Feb-08	5	5	A	1	0	4	2	4	5	11	14	12	12	8	7	5	3	7	2	4	3	3	1	5	5.3	13.6
4-Feb-08	3	A	4	1	0	6	1	3	2	127	44	12	12	13	10	12	6	11	19	16	8	14	5	3	14.4	127.1
5-Feb-08	A	1	0	0	0	1	0	0	4	6	8	8	9	7	6	5	4	2	0	0	0	0	0	A	2.9	8.7
6-Feb-08	0	0	1	1	1	0	0	0	2	4	75	2	3	1	1	0	0	0	0	0	0	0	A	0	4.0	75.2
7-Feb-08	0	0	0	0	0	0	0	0	0	1	1	2	2	1	2	4	0	2	0	1	2	A	1	0	0.8	3.6
8-Feb-08	0	1	1	1	0	1	1	1	1	2	4	6	2	1	5	2	1	1	0	1	A	1	0	0	1.4	5.7
9-Feb-08	5	0	0	1	0	0	2	2	1	1	5	5	4	4	4	3	1	0	A	0	1	0	0	0	1.9	5.1
10-Feb-08	1	0	0	0	2	0	0	0	0	1	2	3	1	10	1	7	2	1	A	1	12	0	0	0	2.0	12.2
11-Feb-08	0	0	0	2	0	2	3	3	6	20	3	3	2	3	3	4	2	A	0	6	2	0	0	3	3.0	19.9
12-Feb-08	0	0	0	0	0	0	0	0	3	2	1	1	1	1	9	3	A	0	87	0	28	0	0	0	6.0	86.6
13-Feb-08	0	0	0	0	0	0	0	1	59	3	4	5	5	5	A	7	7	2	0	6	0	1	0	0	4.9	58.9
14-Feb-08	0	1	0	0	0	1	0	0	1	1	1	1	2	5	A	5	3	3	2	2	2	1	4	0	1.5	4.9
15-Feb-08	0	0	0	0	0	0	0	2	4	0	2	4	1	A	1	0	0	0	0	5	0	0	0	0	1.0	5.1
16-Feb-08	0	0	0	0	0	0	0	1	1	1	4	2	A	1	1	1	0	0	5	0	0	0	0	0	0.9	4.5
17-Feb-08	0	0	0	0	0	0	0	0	1	2	4	A	1	2	3	3	0	0	0	0	0	0	1	0	0.8	4.1
18-Feb-08	0	0	0	0	1	0	0	0	1	2	A	3	3	3	3	2	2	1	0	0	1	0	0	0	1.1	3.4
19-Feb-08	0	0	0	0	0	0	0	2	1	A	55	5	23	2	2	1	1	1	1	3	2	1	0	1	4.5	54.8
20-Feb-08	0	0	0	0	1	0	2	1	A	5	55	6	5	3	6	16	15	56	1	0	0	3	0	0	7.7	55.7
21-Feb-08	0	0	1	0	0	2	1	A	3	4	C	C	C	C	3	7	2	2	0	0	0	0	0	1	1.4	7.3
22-Feb-08	0	0	0	A	0	100	0	0	1	4	7	4	5	4	4	4	1	2	1	0	6	8	0	0	6.7	100.4
23-Feb-08	0	3	A	0	7	288	7	0	3	3	6	5	5	4	3	2	1	1	0	0	0	0	0	0	14.8	287.8
24-Feb-08	7	A	0	0	1	504	0	3	8	4	5	5	3	3	6	6	1	1	1	1	0	0	1	14	25.0	504.0
25-Feb-08	A	1	3	0	0	6	0	0	5	10	6	4	2	2	1	1	1	199	0	9	2	25	1	1	12.2	198.6
26-Feb-08	0	0	0	A	0	1	0	1	4	2	4	4	2	4	1	0	2	0	2	0	0	0	0	0	1.3	4.3
27-Feb-08	0	0	A	0	0	5	0	0	3	1	5	4	0	0	0	0	0	0	0	0	5	0	0	0	1.1	5.2
28-Feb-08	0	A	0	0	0	13	0	1	3	5	3	2	2	1	1	2	3	2	3	6	0	0	1	2	2.2	13.1
29-Feb-08	A	0	0	1	0	0	2	5	1	1	5	3	2	2	4	8	4	2	2	2	0	2	0	A	2.1	7.7
Hourly Avg	0.9	0.5	0.5	0.4	0.6	32.4	0.9	1.6	4.7	8.9	13.0	5.0	5.1	4.0	4.1	4.4	3.0	10.9	5.3	2.5	3.3	3.0	1.1	1.7		
Hourly Max	7.3	4.6	4.5	2.4	6.9	504.0	7.3	9.2	58.9	127.1	75.2	12.3	23.4	12.8	17.7	16.3	15.5	198.6	86.6	15.5	28.4	24.6	8.5	13.9		

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

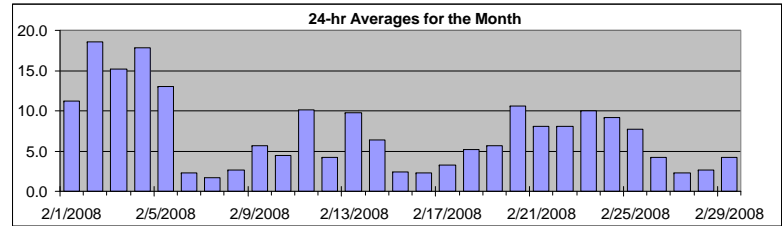
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Maximum 1-hr Average:	34.6	ppb	4-Feb	9:00 10:00
Maximum 24-hr Average:	18.6	ppb	2-Feb	



AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.8	18.6	9.7	5.4	2.7	1.3	1.1	7.2 ppb	5.4 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-Feb-08	9	8	11	13	A	9	10	10	9	13	18	12	8	7	8	8	10	9	13	11	14	15	16	16	11.2	18.1
2-Feb-08	18	17	18	A	16	16	17	18	19	24	22	17	16	16	16	14	13	12	13	20	25	27	29	26	18.6	28.6
3-Feb-08	26	25	A	19	16	16	16	18	19	21	22	19	16	13	11	9	10	10	10	8	10	9	12	12	15.1	25.7
4-Feb-08	11	A	13	13	11	14	12	12	13	35	18	16	17	16	15	15	12	14	21	30	24	32	25	24	17.8	34.6
5-Feb-08	A	19	19	18	18	18	15	16	19	19	17	16	16	14	13	14	13	6	4	4	3	2	2	A	13.0	19.1
6-Feb-08	2	2	2	1	1	1	1	1	1	3	16	2	3	2	2	2	2	2	1	2	2	2	A	2	2.3	16.0
7-Feb-08	2	2	1	1	1	1	1	2	1	2	2	2	1	1	1	1	1	1	1	2	A	4	4	1.6	3.9	
8-Feb-08	4	3	3	2	1	2	2	2	2	3	5	3	2	2	2	2	2	2	3	A	4	4	3	2.6	4.8	
9-Feb-08	4	3	4	4	5	6	6	5	10	5	6	7	9	8	7	9	8	6	5	A	5	3	2	2	5.6	9.6
10-Feb-08	2	1	2	1	2	2	2	2	3	4	5	3	3	4	4	5	5	5	A	6	9	13	12	10	4.4	12.6
11-Feb-08	12	10	11	17	14	12	11	10	12	13	9	8	7	7	7	8	7	A	8	9	11	15	8	5	10.1	16.9
12-Feb-08	5	4	3	2	2	1	1	1	2	2	2	3	3	3	4	3	A	3	5	4	11	8	13	11	4.2	12.5
13-Feb-08	7	5	4	8	9	6	6	7	13	9	10	8	9	9	A	10	19	20	20	17	10	4	4	9.7	20.1	
14-Feb-08	4	4	5	4	4	5	7	5	5	4	3	4	4	6	A	10	8	9	8	8	9	18	12	3	6.4	17.5
15-Feb-08	3	3	3	2	2	3	3	3	3	3	3	3	2	A	2	2	2	2	2	3	2	2	2	2	2.4	3.0
16-Feb-08	2	1	1	1	1	1	1	2	2	2	4	3	A	2	2	3	2	1	4	3	4	4	2	2	2.2	4.2
17-Feb-08	2	2	2	2	2	2	2	4	4	6	8	A	4	3	3	3	2	2	4	3	5	3	3	5	3.2	7.8
18-Feb-08	4	4	3	4	3	3	3	7	7	7	A	7	7	8	8	6	6	5	6	6	4	4	5	4	5.2	8.2
19-Feb-08	5	4	4	4	3	2	2	4	5	A	10	7	6	4	4	4	5	6	15	10	6	6	6	9	5.7	14.7
20-Feb-08	7	9	8	9	9	9	6	6	A	11	15	11	9	7	7	14	14	19	17	17	12	8	9	10	10.6	18.6
21-Feb-08	5	5	7	6	5	4	5	A	16	12	C	C	C	C	10	10	10	14	12	14	9	4	4	5	8.1	15.5
22-Feb-08	6	7	6	A	7	18	5	7	6	8	11	8	9	10	9	7	7	8	12	9	9	8	5	4	8.0	17.6
23-Feb-08	5	5	A	6	7	25	8	9	14	15	14	11	10	10	10	8	7	7	7	7	10	10	13	12	10.0	25.5
24-Feb-08	9	A	8	13	11	29	11	11	19	11	11	8	7	6	5	5	5	4	6	9	6	6	5	5	9.2	28.7
25-Feb-08	A	4	3	3	4	6	7	6	9	18	12	9	5	5	5	5	5	20	7	9	9	9	7	7	7.7	19.6
26-Feb-08	6	6	5	A	6	5	7	6	8	6	9	6	3	3	2	2	2	2	3	3	2	2	1	1	4.2	8.6
27-Feb-08	1	1	A	2	2	3	3	3	5	4	7	6	2	2	2	2	1	1	1	1	1	1	1	1	2.3	6.5
28-Feb-08	1	A	2	1	1	3	2	2	3	4	3	4	3	2	1	2	2	3	4	5	4	4	4	4	2.7	4.8
29-Feb-08	A	5	4	2	3	3	3	4	4	4	7	5	4	5	7	9	6	4	3	3	2	2	2	A	4.2	8.9
Hourly Avg	6.1	6.1	5.8	6.1	5.9	7.8	6.1	6.4	8.4	9.5	9.8	7.8	6.9	6.4	6.3	6.4	6.3	7.0	7.7	8.1	8.1	8.2	7.6	7.2		
Hourly Max	25.7	25.1	19.1	19.1	17.5	28.7	16.6	18.0	19.4	34.6	22.0	18.6	16.5	15.9	15.6	14.6	14.4	19.6	20.5	30.1	24.6	31.8	28.6	26.1		

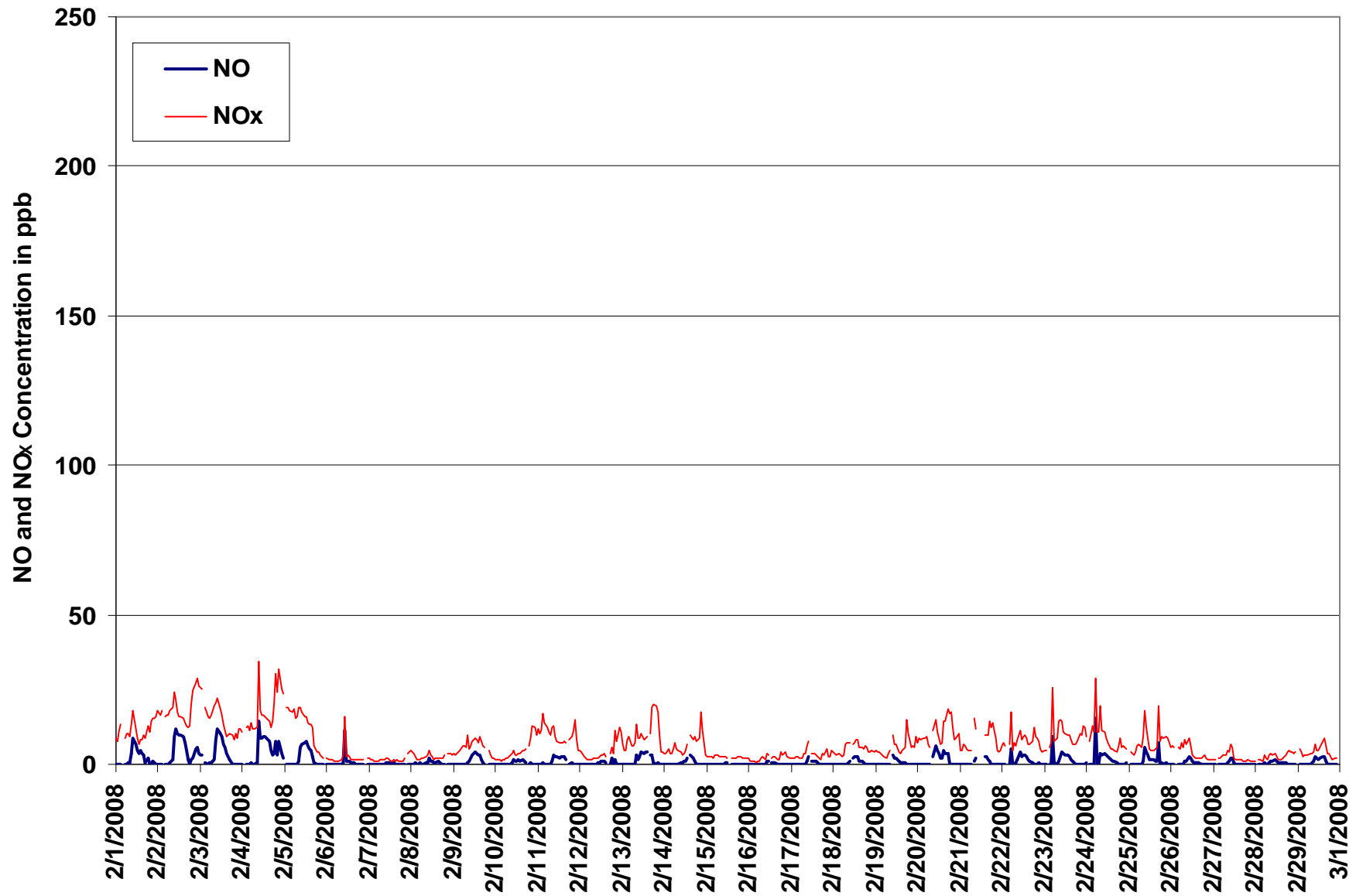


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

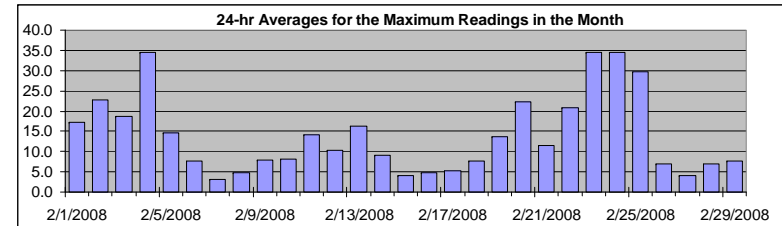
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	500.7	ppb	23-Feb	5:00 6:00
Maximum 24-hr Value:	34.5	ppb	4-Feb	



AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	103.2	28.0	14.9	8.5	4.3	1.8	1.4	13.9 ppb	8.5 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-Feb-08	10	9	16	16	A	11	11	27	23	22	22	18	12	11	9	12	18	11	32	17	17	32	21	18	17.3	32.1	
2-Feb-08	19	19	19	A	19	20	18	24	23	26	25	20	29	17	26	19	14	13	15	29	34	32	32	34	22.8	34.2	
3-Feb-08	29	27	A	21	17	18	19	25	24	22	25	21	20	14	12	11	12	20	15	15	14	14	15	18	18.7	28.5	
4-Feb-08	15	A	16	14	12	20	13	14	15	241	93	21	20	21	17	21	14	24	41	38	32	39	28	26	34.5	241.4	
5-Feb-08	A	20	20	20	19	20	17	18	21	20	19	17	17	15	14	17	17	11	5	5	4	3	2	A	14.6	21.0	
6-Feb-08	2	2	3	2	2	2	2	2	4	9	115	4	5	3	2	2	2	2	2	2	2	A	2	A	7.6	115.0	
7-Feb-08	3	2	2	1	1	1	2	2	2	3	3	5	4	2	6	6	2	5	1	3	4	A	7	5	3.2	7.4	
8-Feb-08	6	6	4	4	2	3	3	5	4	5	9	12	4	2	8	4	4	4	3	5	A	7	6	4	4.8	11.6	
9-Feb-08	16	3	4	8	6	7	8	8	15	6	11	11	9	9	9	10	10	7	8	A	6	5	3	2	7.9	15.8	
10-Feb-08	4	2	2	2	8	2	2	3	4	6	8	6	3	21	4	13	8	6	A	9	25	18	16	12	8.1	25.4	
11-Feb-08	13	12	13	21	18	16	17	15	27	27	11	9	7	8	7	10	10	A	9	17	17	23	14	8	14.2	27.2	
12-Feb-08	5	5	4	2	2	2	2	2	7	6	4	4	3	3	26	7	A	4	73	5	32	13	15	12	10.4	73.1	
13-Feb-08	8	5	5	13	14	8	10	8	89	14	12	12	11	11	11	A	17	29	23	22	24	18	5	5	16.2	88.8	
14-Feb-08	5	5	7	4	4	7	9	6	6	7	3	4	5	11	A	13	9	12	11	14	12	22	27	4	9.1	27.2	
15-Feb-08	3	3	3	3	3	4	4	5	7	3	6	9	4	A	3	2	3	3	3	11	2	3	2	2	4.0	10.9	
16-Feb-08	2	2	1	1	1	2	2	7	9	4	13	7	A	3	5	4	3	2	20	5	5	5	3	2	4.7	19.6	
17-Feb-08	3	2	4	3	3	2	3	5	6	8	12	A	5	5	10	10	3	2	7	6	9	4	7	6	5.4	12.1	
18-Feb-08	5	4	3	4	8	4	4	11	12	10	A	9	9	10	11	9	10	9	11	8	7	6	5	5	7.5	11.6	
19-Feb-08	5	5	6	4	4	3	4	10	6	A	95	22	38	8	7	5	7	7	22	15	12	7	8	12	13.6	95.3	
20-Feb-08	8	9	9	10	12	10	9	7	A	15	87	14	12	9	17	34	34	123	19	19	18	12	14	13	22.4	122.6	
21-Feb-08	6	6	11	8	7	7	7	A	22	17	C	C	C	C	10	18	13	19	14	17	14	6	5	7	11.4	22.2	
22-Feb-08	8	8	7	A	10	207	6	10	8	14	17	12	14	12	13	13	8	17	16	11	31	24	8	5	20.7	206.9	
23-Feb-08	5	10	A	7	20	501	22	11	20	18	17	14	14	12	11	9	7	7	10	11	15	16	20	16	34.5	500.7	
24-Feb-08	21	A	11	15	13	501	13	14	31	19	13	13	9	9	18	17	5	5	11	12	8	8	10	19	34.4	500.6	
25-Feb-08	A	7	8	4	6	22	10	8	16	28	17	11	6	6	5	5	6	435	9	16	11	26	12	10	29.8	435.2	
26-Feb-08	7	6	7	A	6	7	11	11	18	12	13	12	6	8	2	3	10	2	6	4	2	3	2	2	7.0	17.6	
27-Feb-08	2	1	A	2	2	13	5	6	11	5	12	9	2	2	2	2	2	2	2	2	1	8	1	1	1	4.2	12.8
28-Feb-08	1	A	2	1	1	31	4	5	7	12	5	5	4	3	2	4	9	7	11	18	5	6	5	7	6.8	30.7	
29-Feb-08	A	6	6	7	4	4	5	12	4	5	12	7	5	6	11	19	12	8	13	9	2	9	2	A	7.6	19.4	
Hourly Avg	8.1	7.2	7.5	7.6	8.0	50.1	8.4	10.0	15.8	20.9	25.2	11.3	10.3	9.0	10.0	10.7	9.6	28.5	14.7	12.3	13.3	13.0	10.6	9.5			
Hourly Max	28.5	27.3	19.9	21.3	20.1	500.7	21.9	26.9	88.8	241.4	115.0	21.6	38.5	21.4	26.3	33.7	34.1	435.2	73.1	37.9	33.8	39.1	31.9	34.2			

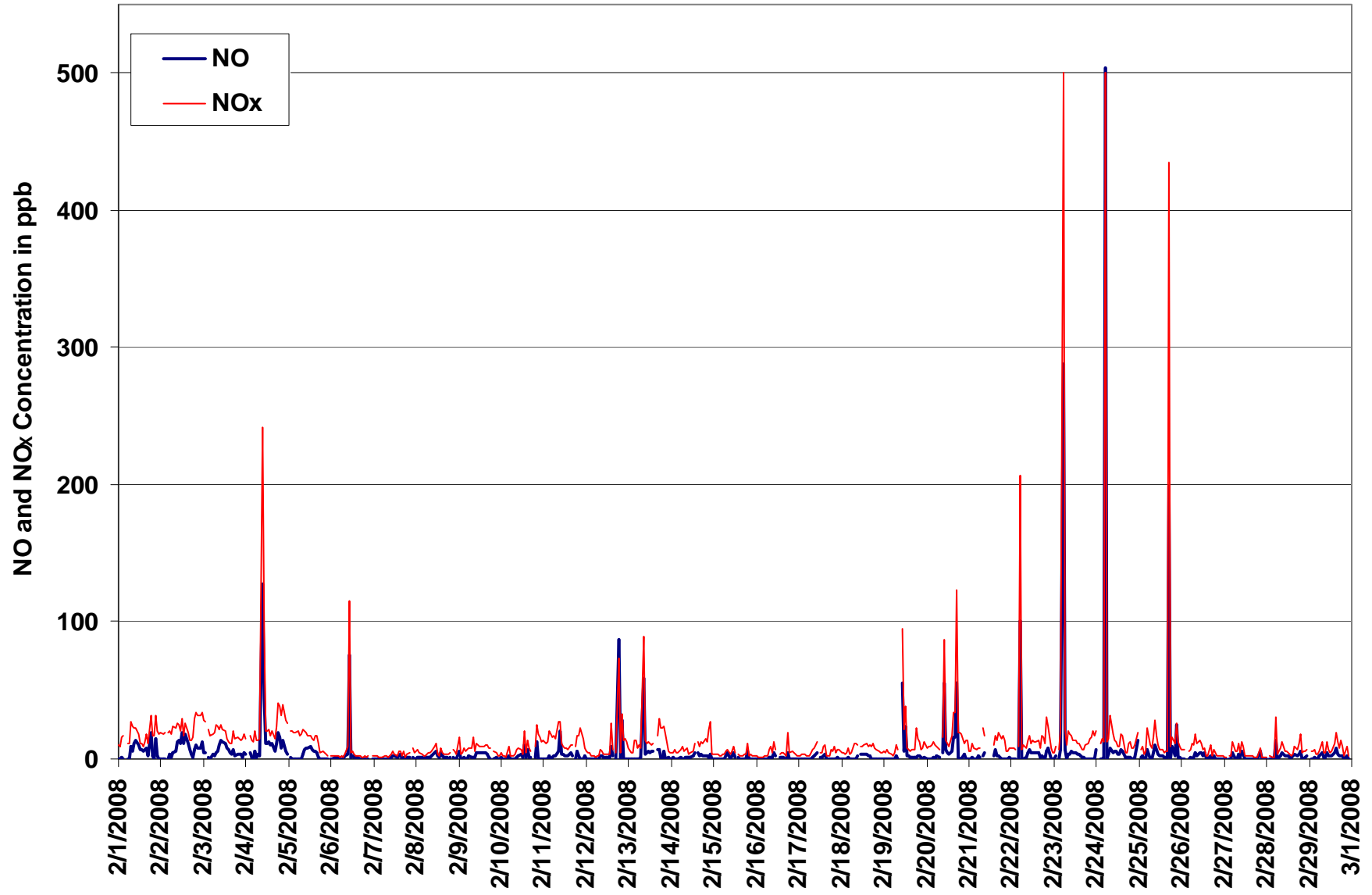


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

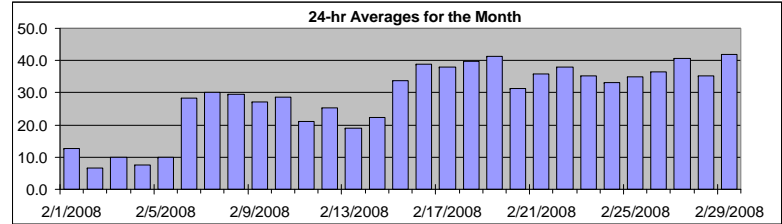
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	53.8 ppb	27-Feb	13:00	14:00
Maximum 24-hr Average:	41.8 ppb	29-Feb		



AIC Time:	32 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	49.8	43.6	37.1	30.5	22.4	5.2	0.1	28.6 ppb	30.5 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	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-Feb-08	15	15	12	11	A	14	12	13	13	12	12	15	17	17	17	17	15	13	12	11	7	7	6	5	12.6	17.4	
2-Feb-08	4	5	4	A	5	4	4	2	2	6	10	13	14	14	15	15	14	10	8	3	0	0	0	0	6.7	15.0	
3-Feb-08	0	0	A	3	5	5	3	2	3	7	11	14	14	16	17	18	17	14	14	15	13	14	11	10	9.9	17.7	
4-Feb-08	10	A	8	8	8	6	7	8	7	12	12	12	12	13	13	13	12	9	3	0	1	0	0	0	7.6	13.3	
5-Feb-08	A	2	2	2	2	1	3	3	2	6	10	11	11	13	14	14	16	16	16	16	17	19	21	A	9.9	20.6	
6-Feb-08	24	25	27	28	28	29	29	29	29	28	27	29	29	29	30	30	30	29	29	29	29	29	A	29	28.4	29.8	
7-Feb-08	28	28	29	29	28	28	28	29	29	30	31	31	31	32	32	33	32	32	32	32	32	A	29	27	30.0	32.5	
8-Feb-08	26	28	30	31	31	30	30	29	29	29	30	30	31	31	31	30	30	30	29	29	A	29	29	29	29.5	30.7	
9-Feb-08	29	29	28	28	27	26	26	26	23	28	27	27	27	26	27	26	26	27	27	A	27	29	30	31	27.2	30.6	
10-Feb-08	31	31	31	32	31	31	31	30	29	29	29	30	31	31	31	31	30	29	A	27	25	19	19	21	28.7	31.8	
11-Feb-08	18	20	19	13	16	18	19	19	17	18	22	25	27	28	28	27	27	A	23	21	19	15	20	25	21.0	28.2	
12-Feb-08	25	25	27	28	29	29	29	29	27	27	27	26	26	26	27	28	A	26	25	24	18	20	16	17	25.4	29.4	
13-Feb-08	20	21	20	17	16	19	19	18	15	18	20	21	23	23	23	A	22	14	10	10	12	20	25	25	18.9	25.0	
14-Feb-08	25	25	22	24	24	22	20	21	22	23	24	24	24	24	A	22	22	20	19	18	17	9	22	35	22.2	35.3	
15-Feb-08	34	33	33	32	33	31	31	31	31	32	32	32	32	A	32	33	34	36	36	37	38	38	38	38	33.8	38.2	
16-Feb-08	38	38	38	38	38	37	38	36	36	37	35	37	A	41	42	42	43	43	40	40	39	38	38	39	38.7	43.3	
17-Feb-08	38	38	38	37	37	37	37	36	36	33	34	A	40	40	41	44	43	42	40	39	36	38	38	34	38.1	44.0	
18-Feb-08	35	35	35	34	37	37	38	36	37	38	A	39	40	42	43	45	44	44	42	43	43	44	41	41	39.7	44.6	
19-Feb-08	42	42	42	42	43	43	44	42	41	A	40	41	42	45	46	45	45	43	32	35	41	38	39	34	41.2	45.7	
20-Feb-08	35	29	31	30	29	27	28	28	A	25	26	30	35	37	39	35	34	32	28	25	32	36	35	32	31.3	39.3	
21-Feb-08	39	40	37	38	38	36	36	A	28	33	33	32	29	C	C	C	A	36	35	31	36	41	42	39	35.8	41.8	
22-Feb-08	36	34	34	A	34	33	37	31	34	35	32	37	41	43	42	41	47	44	38	39	40	39	41	43	38.1	46.5	
23-Feb-08	42	42	A	39	36	35	33	31	26	28	30	37	40	41	40	41	41	39	36	35	30	32	28	27	35.2	42.4	
24-Feb-08	30	A	28	23	23	23	24	23	19	24	30	37	39	41	43	43	43	44	40	34	37	36	37	37	33.0	43.9	
25-Feb-08	A	39	38	38	35	34	32	32	28	26	34	38	43	39	38	39	38	34	34	33	31	31	32	33	34.8	43.5	
26-Feb-08	34	34	34	A	34	37	35	33	32	34	35	39	41	40	40	40	39	38	37	36	37	37	36	37	36.5	41.3	
27-Feb-08	36	36	A	34	34	32	31	31	30	31	31	36	48	54	52	50	49	48	47	46	45	44	44	44	40.6	53.8	
28-Feb-08	43	A	42	42	41	41	40	38	35	32	30	32	34	35	35	36	36	34	32	30	30	31	31	30	35.3	43.4	
29-Feb-08	A	29	32	45	44	44	43	34	31	33	34	39	41	42	40	40	43	53	51	50	50	50	A	41.8	52.9		
Hourly Avg	28.4	27.9	27.9	27.9	28.1	27.3	27.1	25.8	24.7	25.6	26.7	29.0	30.9	32.0	32.6	32.5	32.3	31.3	29.1	28.2	28.0	28.0	28.5	28.3			
Hourly Max	43.4	41.6	42.4	44.7	44.1	44.3	43.9	42.3	40.8	38.2	39.7	41.1	48.1	53.8	52.3	49.8	48.8	52.9	51.3	50.1	49.8	49.6	50.2	43.8			

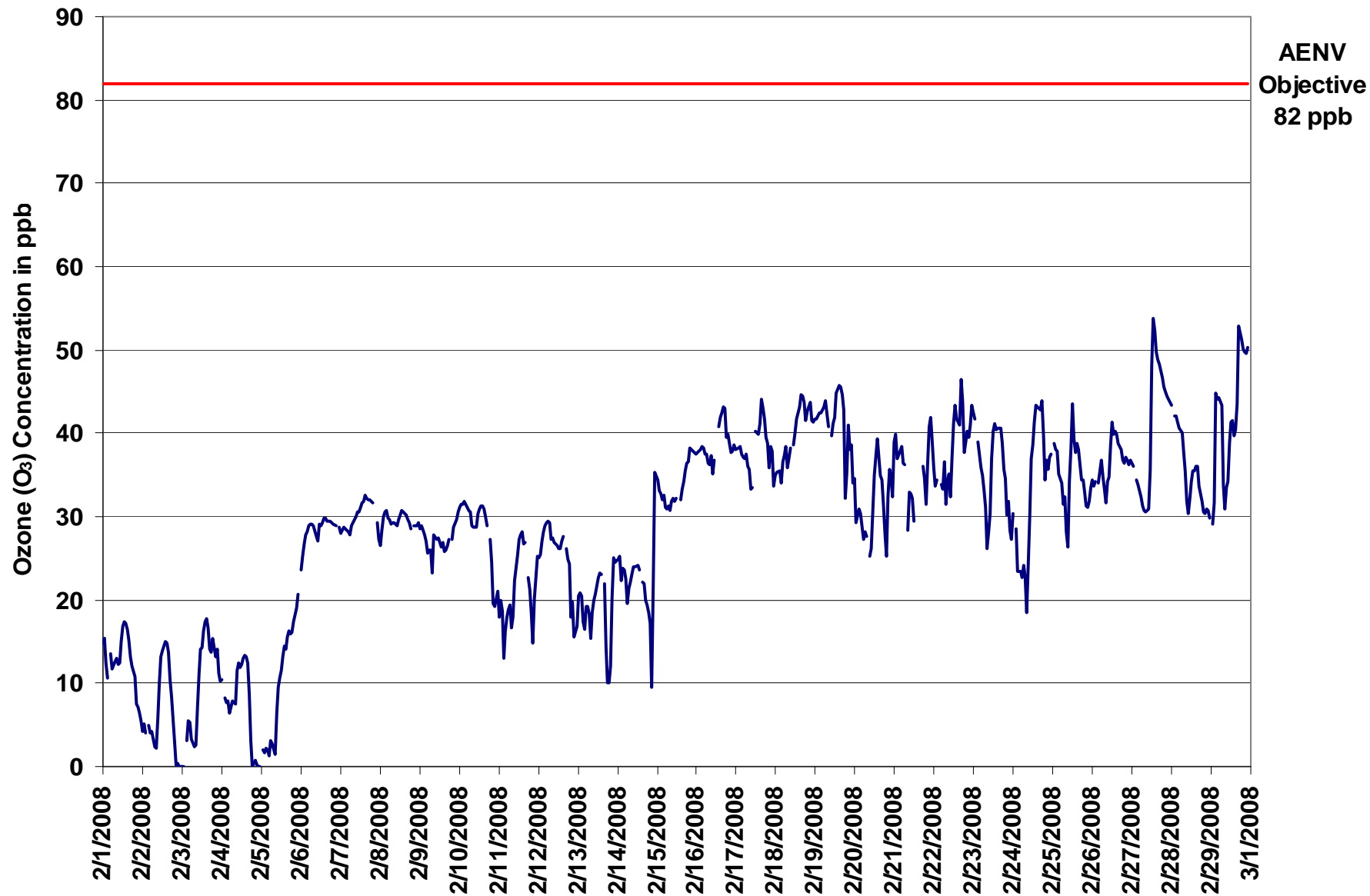


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

Station: Portable-Spirit River
Station Owner: PASZA

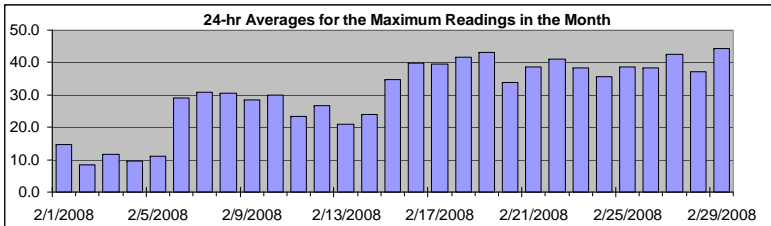
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	56.1	ppb	27-Feb	13:00 14:00
Maximum 24-hr Value:	44.4	ppb	29-Feb	



AIC Time:	32 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.5	45.4	39.1	31.9	24.2	7.1	0.7	30.5 ppb	31.9 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	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-hr Average	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-Feb-08	16	16	15	13	A	17	14	15	14	14	16	17	18	18	18	18	17	15	18	13	11	10	8	7	14.6	18.2	
2-Feb-08	5	6	5	A	7	6	6	4	3	8	12	14	15	15	16	16	15	12	10	8	2	4	1	1	8.3	15.9	
3-Feb-08	0	0	A	5	6	7	5	4	5	10	15	16	16	18	18	19	18	16	16	16	15	15	12	11.5	19.0		
4-Feb-08	11	A	9	9	9	8	8	9	9	22	20	13	13	14	14	14	14	11	7	0	2	1	0	1	9.5	22.4	
5-Feb-08	A	4	3	4	3	3	4	4	4	9	11	12	13	14	15	16	17	17	16	17	18	20	22	A	11.1	21.8	
6-Feb-08	25	26	28	28	29	30	30	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	A	29	29.2	30.5	
7-Feb-08	29	29	30	29	29	29	28	30	30	31	32	31	32	33	33	33	33	33	33	33	33	A	31	29	30.9	33.1	
8-Feb-08	28	32	31	32	32	31	31	31	31	30	30	31	31	31	31	31	31	31	30	30	A	30	30	30	30.5	31.7	
9-Feb-08	30	30	30	29	28	26	27	27	28	29	29	29	28	27	28	27	27	28	29	A	29	30	31	31	28.5	31.2	
10-Feb-08	32	32	32	32	32	32	32	31	30	30	30	31	32	32	32	32	31	30	A	29	27	25	21	22	29.9	32.4	
11-Feb-08	20	21	21	20	19	21	23	23	20	21	24	27	28	29	29	28	28	A	24	23	21	20	23	27	23.4	28.8	
12-Feb-08	26	26	28	29	30	30	30	30	29	28	28	27	27	27	28	28	A	27	26	26	24	23	18	20	26.8	30.0	
13-Feb-08	22	22	21	21	21	20	21	19	19	20	22	22	24	24	25	A	23	22	11	13	14	26	27	26	21.1	26.6	
14-Feb-08	26	26	25	25	24	24	21	22	23	24	25	25	25	25	A	23	23	22	21	20	19	14	36	36	24.0	36.1	
15-Feb-08	36	34	34	33	33	33	32	32	32	33	33	33	33	A	33	35	35	37	38	38	39	39	39	38	34.8	39.5	
16-Feb-08	38	39	39	39	39	38	39	37	38	38	37	40	A	42	43	44	44	44	42	41	40	39	39	39	39.9	44.1	
17-Feb-08	39	39	39	39	38	38	38	37	38	35	35	A	43	41	43	45	45	43	42	40	39	40	39	37	39.7	44.9	
18-Feb-08	36	36	36	35	39	39	40	39	41	40	A	41	42	44	46	47	46	45	45	45	45	46	44	44	41.6	46.5	
19-Feb-08	43	43	45	44	44	44	45	44	43	A	41	43	44	46	48	47	46	45	39	41	43	41	40	36	43.2	47.5	
20-Feb-08	37	31	32	31	31	29	30	30	A	27	30	33	36	38	40	38	37	34	30	28	39	40	41	38	33.9	40.7	
21-Feb-08	41	42	40	40	40	38	39	A	33	36	38	36	31	C	C	C	A	40	37	35	40	43	43	42	38.5	43.4	
22-Feb-08	40	35	36	A	36	36	40	34	36	38	38	40	45	45	43	46	49	47	42	42	44	44	44	45	41.1	48.9	
23-Feb-08	44	43	A	40	39	37	35	33	33	31	37	41	42	45	42	42	42	41	38	38	36	35	35	34	38.3	45.2	
24-Feb-08	34	A	30	29	26	25	26	25	24	27	34	39	40	44	45	44	44	46	44	39	39	38	40	40	35.6	45.5	
25-Feb-08	A	41	40	40	39	37	35	34	31	32	39	42	45	45	39	40	39	38	37	35	33	33	45	46	38.5	46.4	
26-Feb-08	36	36	38	A	36	38	37	35	34	37	36	42	42	42	41	41	40	40	39	38	38	38	37	38	38.3	42.5	
27-Feb-08	38	37	A	36	35	34	33	33	33	32	33	46	54	56	53	51	50	49	49	47	46	45	45	45	42.5	56.1	
28-Feb-08	45	A	43	44	43	43	42	39	39	35	32	35	36	37	37	38	38	36	34	32	32	32	33	31	37.1	44.6	
29-Feb-08	A	31	41	47	45	46	45	41	33	36	38	41	42	42	42	42	54	54	54	51	50	50	52	A	44.4	54.4	

Hourly Avg	29.8	29.1	29.6	29.8	29.6	28.8	28.8	27.6	27.1	27.9	29.3	31.2	32.3	33.5	33.7	33.8	33.9	33.3	31.5	30.3	30.2	30.3	31.3	30.5		
Hourly Max	44.6	43.2	44.9	46.9	45.0	46.0	45.5	44.0	42.7	39.6	41.5	45.9	54.3	56.1	53.4	51.1	53.9	54.4	54.3	51.4	50.4	50.4	51.7	46.4		

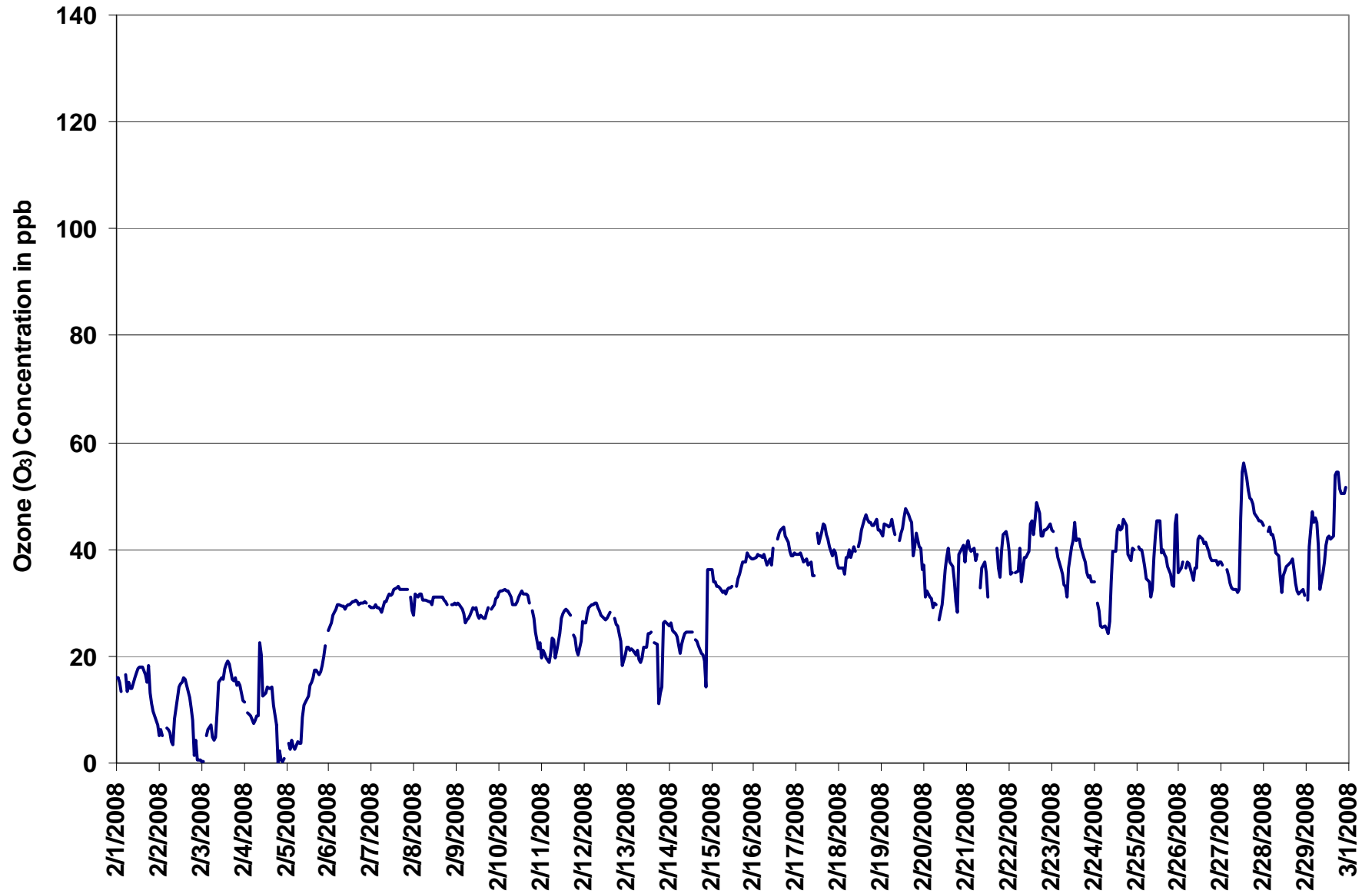
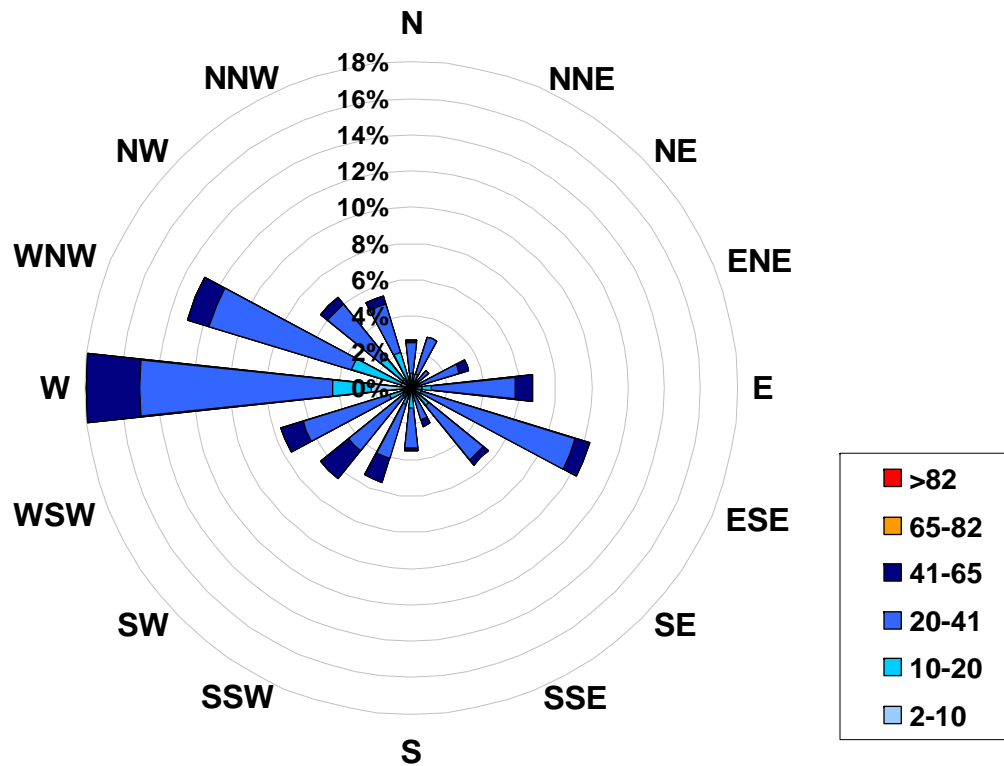


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		54
10	to 20		96
20	to 41		429
41	to 65		82
65	to 82		0
	> 82		0
Total Non-Zero Values			661

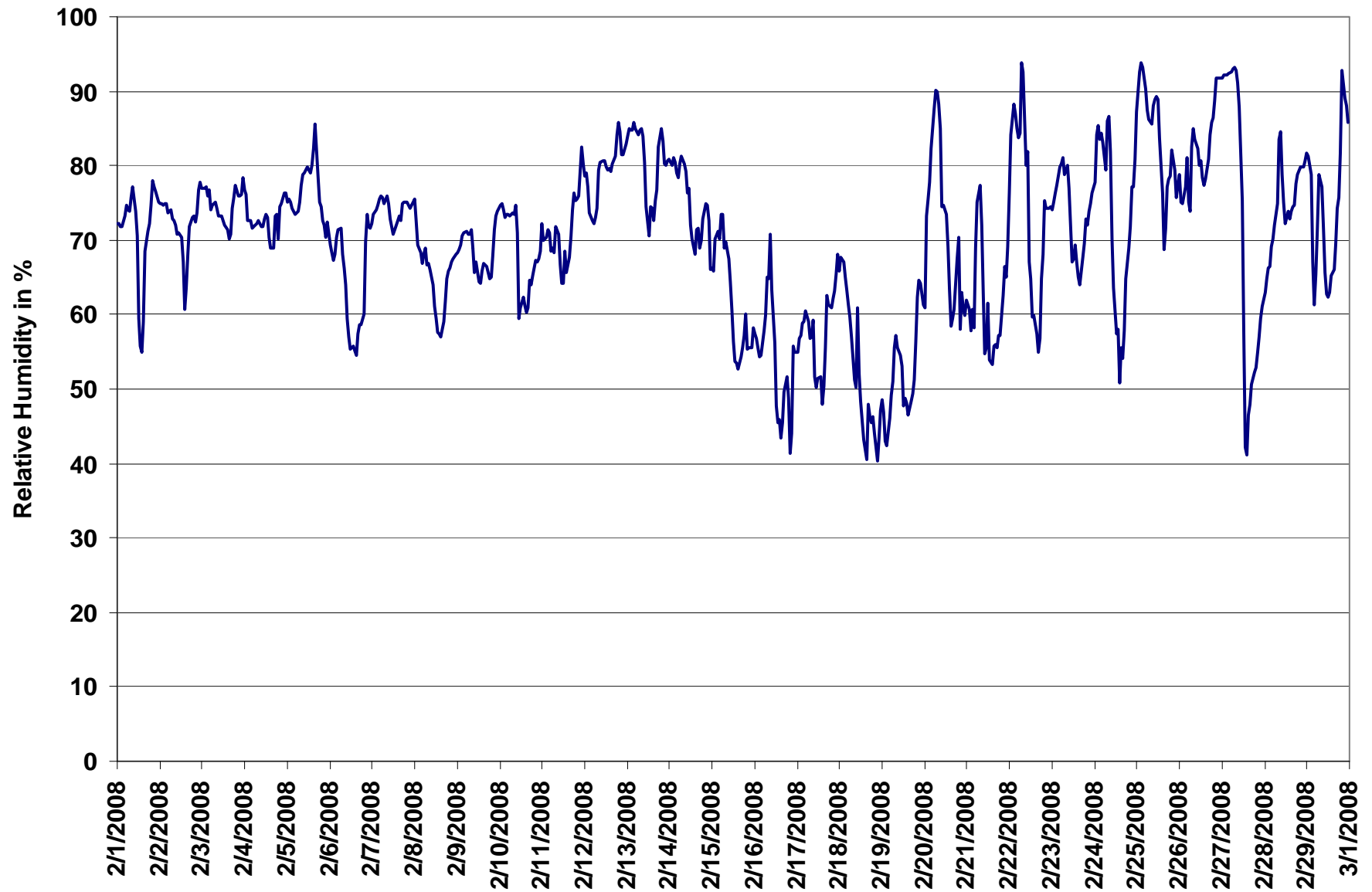


Figure 54. PASZA - Portable-Spirit River Relative Humidity 1-hr Average Monthly Trend

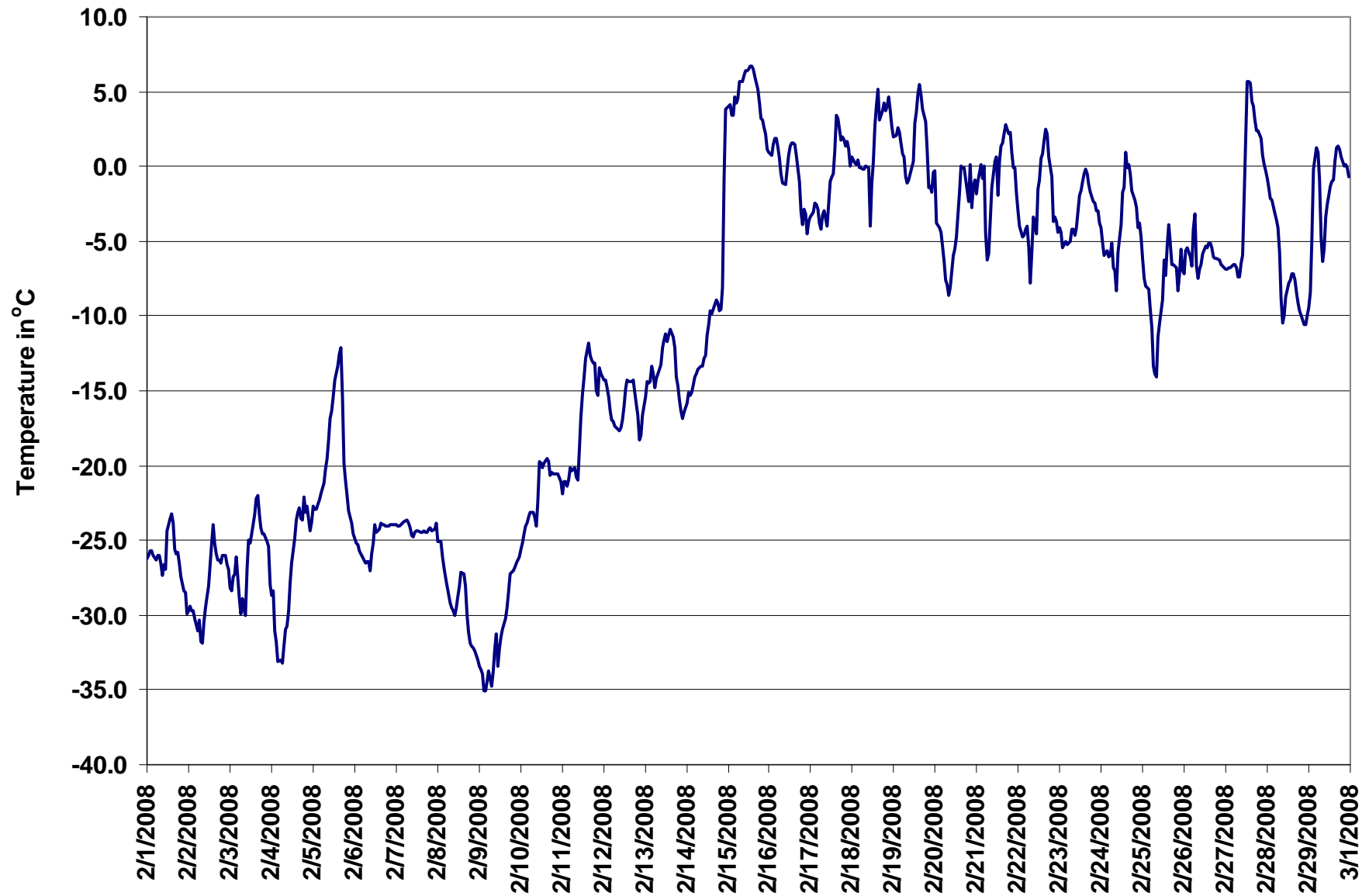


Figure 55. PASZA - Portable-Spirit River Temperature 1-hr Average Monthly Trend

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: February 1, 2008 to March 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	691 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%			
Percentile	99	95	75	50	25	5	1
	89.6	75.5	41.2	18.9	8.6	4.4	2.9

Status Flag Characters

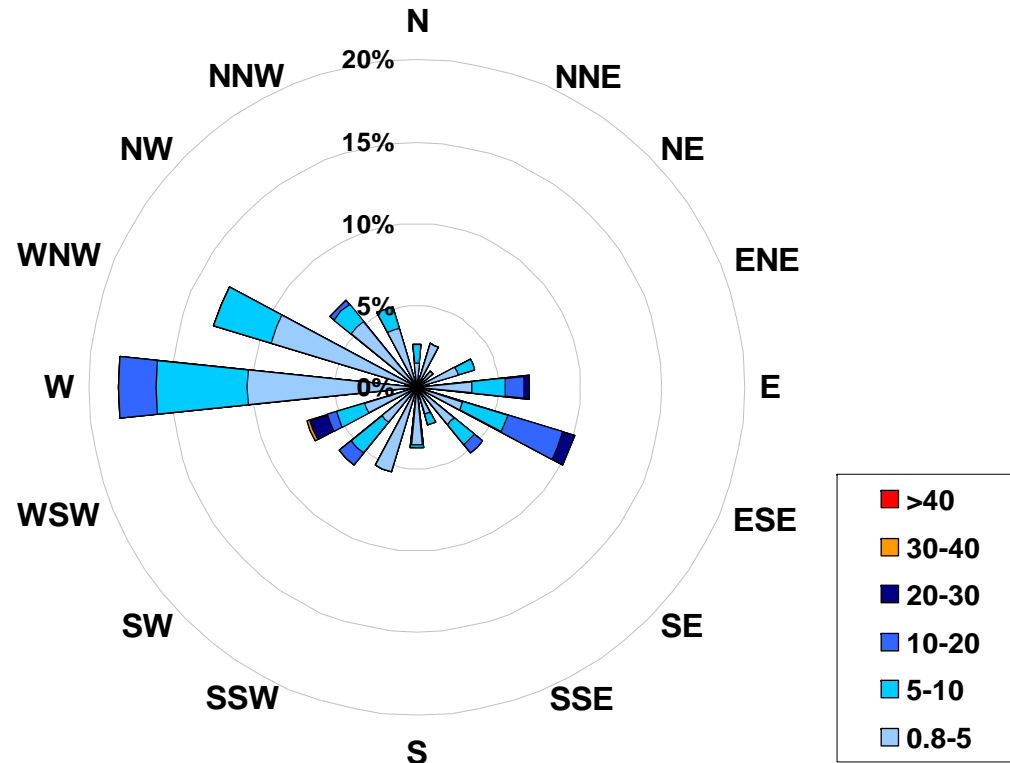
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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-Feb-08	66	62	78	44	50	38	76	23	15	87	48	29	81	42	38	58	14	44	24	28	16	6	6	8	86.8		
2-Feb-08	5	4	5	20	14	21	19	24	12	20	43	19	63	68	64	61	9	65	87	33	20	29	48	40	86.9		
3-Feb-08	8	12	17	8	4	30	21	15	60	37	32	25	10	15	6	42	82	48	18	37	10	15	23	65	82.1		
4-Feb-08	23	29	73	68	90	20	90	38	46	24	14	21	12	23	13	14	46	25	19	9	42	42	63	36	90.5		
5-Feb-08	80	58	38	38	42	61	37	63	20	20	45	27	13	28	13	32	9	17	7	9	6	5	7	10	79.6		
6-Feb-08	7	6	8	11	7	6	8	10	11	12	13	11	29	42	33	53	31	21	18	20	44	17	11	11	52.9		
7-Feb-08	8	8	5	4	6	9	28	13	12	15	9	8	6	5	3	6	6	20	29	18	17	41	26	39	40.5		
8-Feb-08	10	21	6	12	14	8	4	18	15	14	5	8	8	6	13	10	23	11	6	5	5	4	9	8	22.9		
9-Feb-08	69	N	N	N	N	58	85	N	60	33	48	28	18	14	11	9	6	5	5	4	3	2	2	3	85.5		
10-Feb-08	4	3	4	5	7	18	18	10	15	6	19	56	62	60	67	38	76	16	20	11	11	10	15	17	76.2		
11-Feb-08	22	13	17	19	28	71	35	45	66	80	66	81	78	59	78	80	65	63	63	55	28	19	5	5	81.1		
12-Feb-08	6	8	4	6	8	4	6	5	7	9	7	6	5	7	16	10	8	11	75	52	12	11	12	11	74.7		
13-Feb-08	6	15	13	13	19	14	28	31	35	39	30	60	28	22	9	28	10	17	19	19	14	10	93	7	92.7		
14-Feb-08	34	32	13	52	55	47	22	11	28	34	35	22	39	44	71	35	19	93	65	40	28	90	51	5	93.0		
15-Feb-08	5	6	10	23	8	4	3	3	7	6	5	3	4	4	8	7	7	7	7	7	5	5	4	3	23.0		
16-Feb-08	3	4	4	6	7	7	11	18	15	16	15	23	9	8	8	8	7	16	54	51	41	29	16	5	53.8		
17-Feb-08	4	5	5	5	6	9	7	6	26	30	71	78	17	32	30	38	10	23	8	75	31	46	36	27	77.7		
18-Feb-08	13	34	9	4	13	19	9	13	28	20	50	73	66	50	58	80	32	12	20	3	11	15	30	75	79.9		
19-Feb-08	50	18	26	8	28	4	10	20	13	71	72	24	19	8	51	44	25	12	14	7	46	42	8	11	72.0		
20-Feb-08	9	77	48	54	42	36	11	19	11	14	26	60	18	43	32	45	35	61	49	20	22	40	53	80	80.0		
21-Feb-08	99	23	51	28	11	35	57	32	21	44	31	49	42	34	31	7	9	13	24	17	7	5	27	19	99.0		
22-Feb-08	59	30	37	53	33	22	54	53	40	42	12	51	53	60	40	21	12	14	24	13	5	24	8	30	60.2		
23-Feb-08	37	13	55	58	83	73	30	18	90	44	77	23	38	78	70	13	27	24	76	37	37	68	21	35	89.6		
24-Feb-08	38	20	10	10	12	43	17	75	48	12	28	50	55	12	50	12	10	8	7	16	8	22	10	35	74.9		
25-Feb-08	29	50	20	12	15	59	56	7	10	57	58	73	54	13	29	71	85	37	54	52	16	37	31	25	84.6		
26-Feb-08	41	33	38	39	68	9	25	44	55	63	17	18	8	5	8	13	9	7	7	10	6	4	9	6	67.7		
27-Feb-08	5	6	4	3	5	7	10	27	24	63	86	58	5	4	9	8	8	7	7	8	6	5	3	5	86.0		
28-Feb-08	6	6	7	6	6	16	25	74	32	13	25	20	11	5	5	7	8	5	5	8	15	32	71	80	79.8		
29-Feb-08	25	98	65	15	3	15	49	65	44	77	88	49	59	16	11	9	15	14	12	9	11	23	61	9	98.2		

Hourly Max	99	98	78	68	90	73	90	75	90	87	88	81	81	78	78	80	85	93	87	75	46	90	93	80
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		435
5	to 10		175
10	to 20		65
20	to 30		15
30	to 40		1
	> 40		0
Total Non-Zero Values			691

PASZA
Valleyview Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

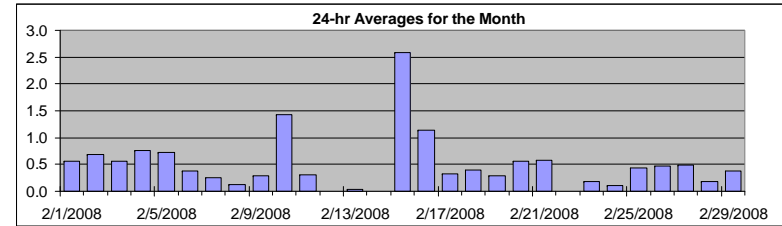
Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 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:	17.1 ppb	15-Feb	22:00	23:00
Maximum 24-hr Average:	2.6 ppb	15-Feb		



AIC Time:	29 hrs	Operational Time:	661 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.0	1.5	0.5	0.3	0.1	0.0	0.0	0.5 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	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-Feb-08	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0.6	0.9
2-Feb-08	A	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	1	1	1	0	1	1	1	0.7	1.9
3-Feb-08	A	0	1	0	1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0.6	1.2
4-Feb-08	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	0.8	1.7
5-Feb-08	A	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	0	0	0.7	1.6
6-Feb-08	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0.4	1.4
7-Feb-08	A	0	0	0	0	0	0	0	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0.3	1.6
8-Feb-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
9-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	0.3	1.1
10-Feb-08	A	1	1	2	2	3	2	2	2	2	2	1	1	1	2	1	2	1	1	1	1	1	1	1	1.4	2.6
11-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	0	0	0	0	0	0.3	1.6
12-Feb-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	0.1
13-Feb-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	0.3
14-Feb-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
15-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	2	2	4	2	0	1	3	2	7	13	17	6	2.6	17.1
16-Feb-08	A	11	4	3	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1.1	10.7
17-Feb-08	A	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.9
18-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0.4	1.1
19-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.6
20-Feb-08	A	0	0	0	0	0	0	0	0	0	1	1	0	1	1	3	1	1	1	0	0	0	0	0	0.6	3.4
21-Feb-08	A	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	4	1	1	0	0	1	0	0.6	4.0
22-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	1	C	C	C	C	C	C	0	0	0	0	0	N	0.6
23-Feb-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
24-Feb-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	0.5
25-Feb-08	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	0	0	0.4	0.9
26-Feb-08	A	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	1	0	0	1	0.5	1.3
27-Feb-08	A	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	0	0	0.5	3.0
28-Feb-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	0.2	0.7
29-Feb-08	A	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0.4	1.6
Hourly Avg	N	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.4	0.6	0.8	0.9	0.5		
Hourly Max	0.0	10.7	4.2	3.4	2.4	2.6	2.1	1.9	1.8	1.6	1.6	1.4	1.7	2.0	4.1	3.4	3.0	4.0	3.4	2.0	6.9	13.3	17.1	6.3		

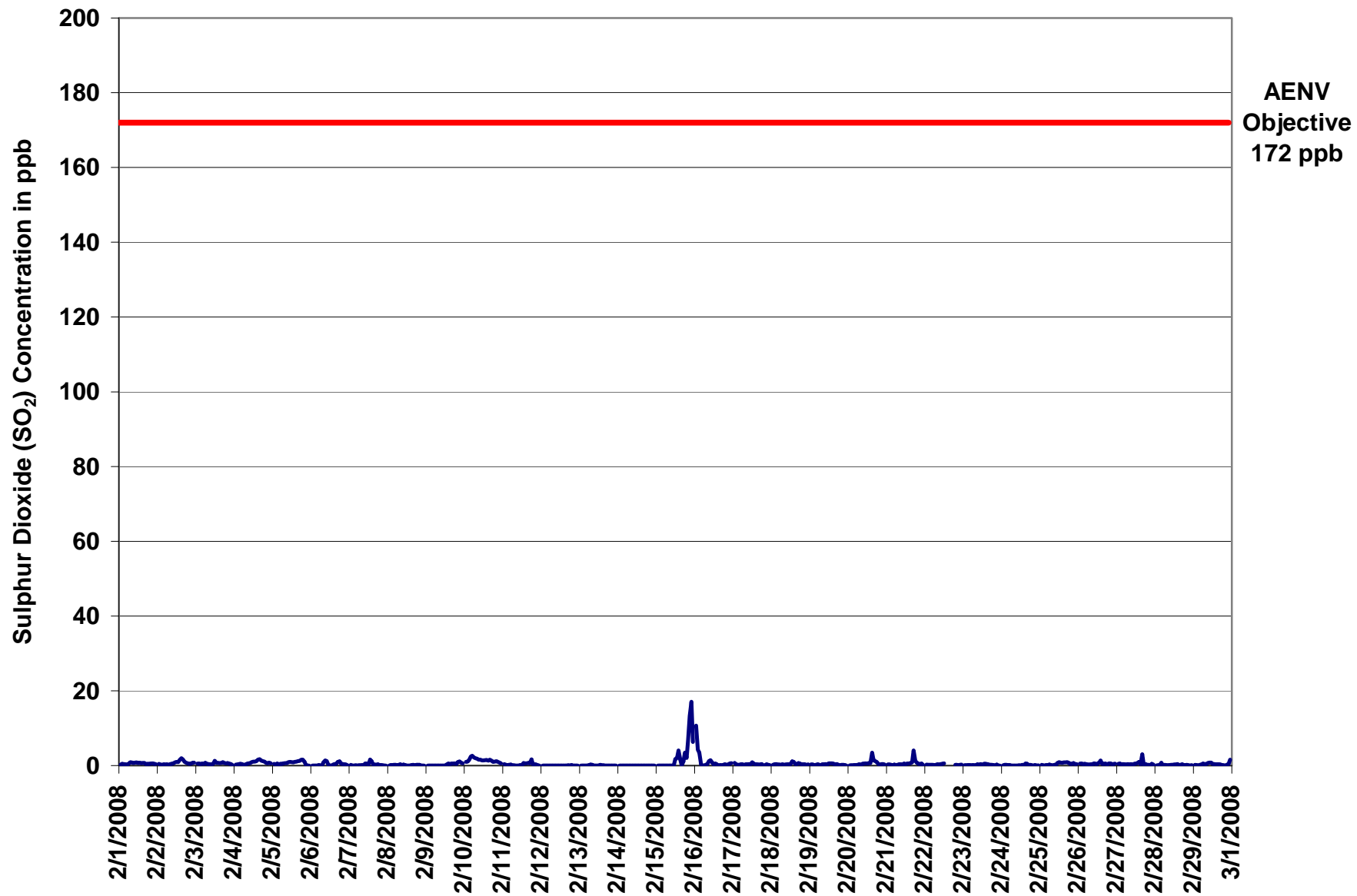


Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

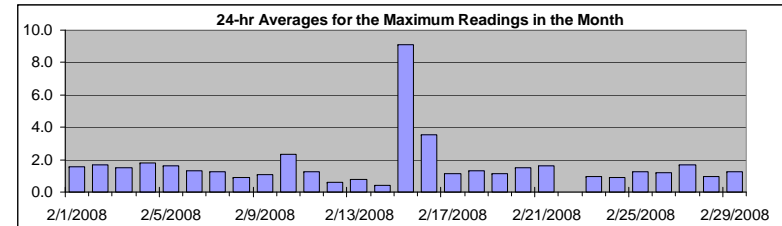
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	35.9	ppb	15-Feb	15:00 16:00
Maximum 24-hr Value:	9.1	ppb	15-Feb	



AIC Time:	29 hrs	Operational Time:	661 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.5	2.9	1.6	1.0	0.9	0.5	0.0	1.6 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-Feb-08	A	1	2	1	2	1	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	1	1	1	1.5	2.5
2-Feb-08	A	2	1	1	1	1	1	1	2	1	1	3	2	2	2	3	3	2	2	2	1	1	2	2	1.7	2.8
3-Feb-08	A	2	1	1	2	1	2	1	1	1	1	1	4	2	2	2	2	2	1	2	2	1	2	2	1.5	3.7
4-Feb-08	A	1	2	1	2	2	1	2	2	3	2	2	2	2	2	3	3	2	2	2	1	2	2	2	1.8	2.8
5-Feb-08	A	1	1	1	1	1	1	1	1	2	2	4	2	2	2	2	2	2	3	2	1	1	1	1	1.6	3.9
6-Feb-08	A	1	1	1	1	1	1	1	3	3	4	1	1	1	1	1	1	2	2	1	1	1	1	1	1.3	3.8
7-Feb-08	A	1	1	1	1	1	1	1	1	1	2	2	2	4	3	1	1	2	1	1	1	1	1	1	1.3	3.9
8-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	4	0	0	0	0.9	4.5
9-Feb-08	A	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	3	2	2	2	1.1	2.6
10-Feb-08	A	2	2	3	4	4	3	3	3	2	2	2	3	2	3	2	3	2	2	2	2	2	2	2	2.3	3.7
11-Feb-08	A	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	6	1	2	1	1	1	1.3	5.5
12-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	2	0	0	0	0	0.6	1.5
13-Feb-08	A	0	0	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	0	1	1	0.8	2.2
14-Feb-08	A	1	1	1	1	1	0	1	1	0	0	1	0	1	1	0	1	1	1	0	0	0	0	1	0.4	0.7
15-Feb-08	A	2	0	0	0	0	0	0	0	0	0	0	11	18	20	36	1	8	10	11	20	29	29	16	9.1	35.9
16-Feb-08	A	27	14	14	1	1	0	1	1	2	3	2	2	2	2	1	1	1	1	1	1	1	1	2	3.5	27.1
17-Feb-08	A	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	2.0
18-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	2	2	1	1	1	1	2	1.3	3.0
19-Feb-08	A	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.1	1.8
20-Feb-08	A	1	1	1	1	1	1	1	1	2	2	1	1	1	2	6	2	2	2	1	1	1	2	1	1.5	6.0
21-Feb-08	A	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	8	3	2	1	2	2	1	1.6	8.0
22-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C	1	1	1	1	1	N	1.1
23-Feb-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	1.3
24-Feb-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	0.9	1.2
25-Feb-08	A	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	2	1	1.3	1.9
26-Feb-08	A	1	2	1	1	1	1	1	1	1	2	1	1	2	3	1	1	1	1	1	1	1	1	1	1.2	2.6
27-Feb-08	A	1	1	1	1	1	1	2	2	1	1	1	1	2	3	1	13	1	1	1	1	1	1	1	1.7	13.5
28-Feb-08	A	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.8
29-Feb-08	A	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	2	3	1.2	3.0

Hourly Avg	N	1.9	1.4	1.4	1.1	1.0	0.9	1.1	1.2	1.2	1.3	1.3	1.7	2.1	2.3	2.6	1.8	1.8	1.8	1.5	1.9	2.0	2.1	1.7
Hourly Max	0.0	27.1	14.1	14.2	3.7	3.7	2.8	2.8	3.5	2.9	3.8	3.9	10.9	17.9	19.8	35.9	13.5	8.0	9.5	10.5	19.9	29.0	29.0	15.5

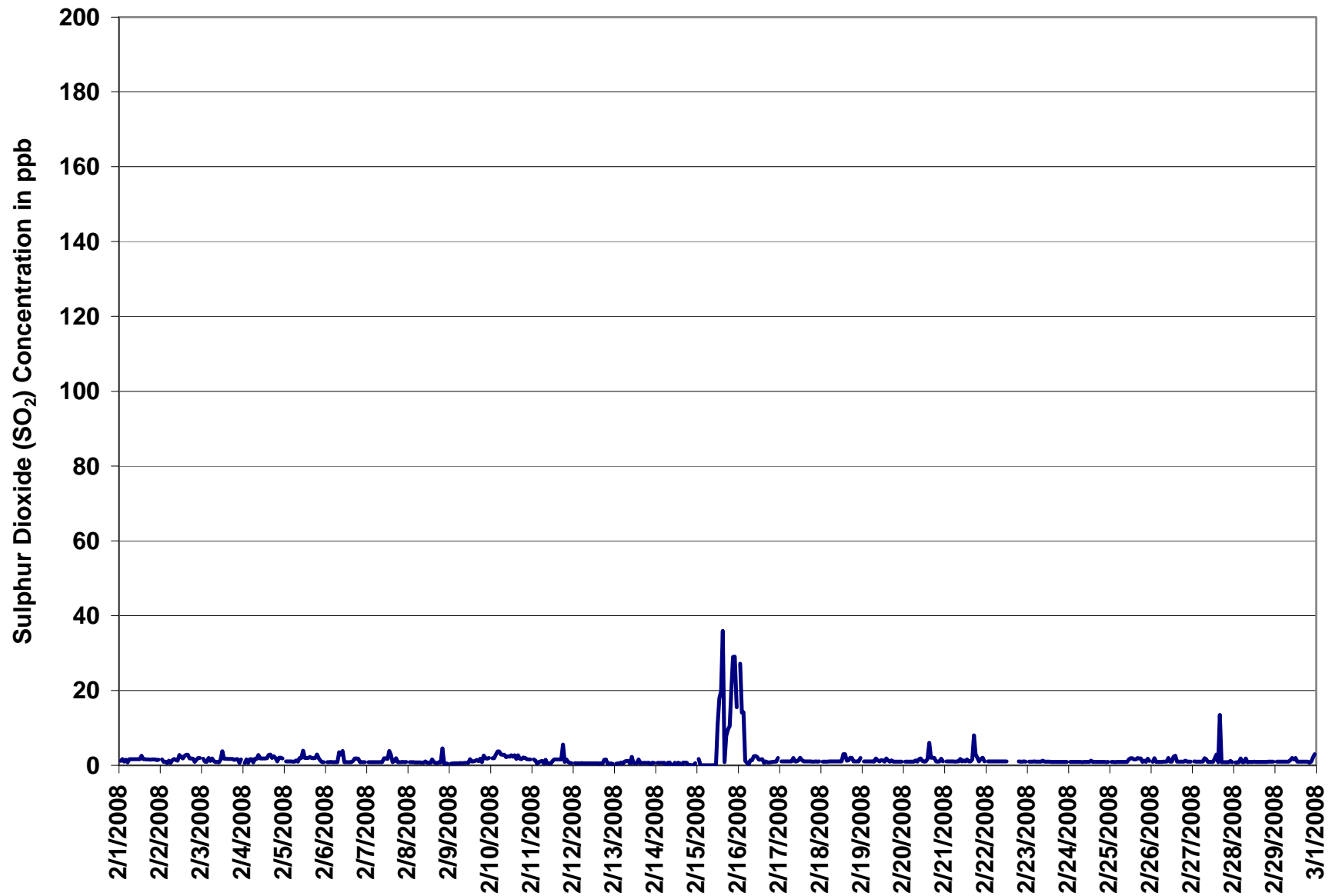
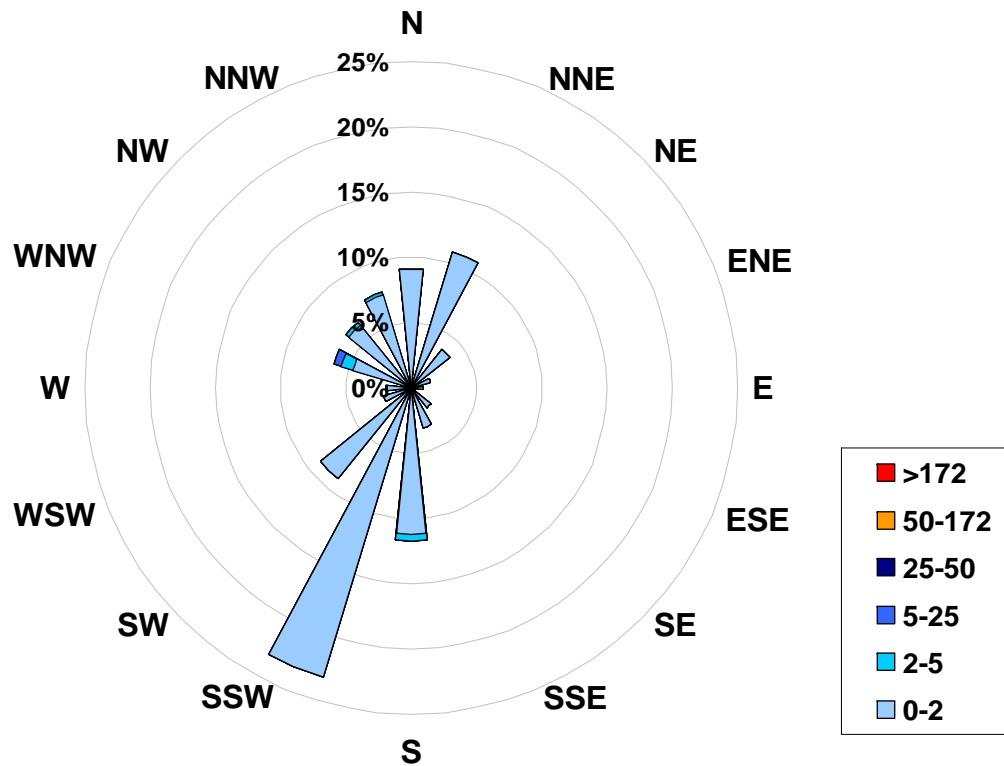


Figure 55. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	645
2	to	5	11
5	to	25	5
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			661

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

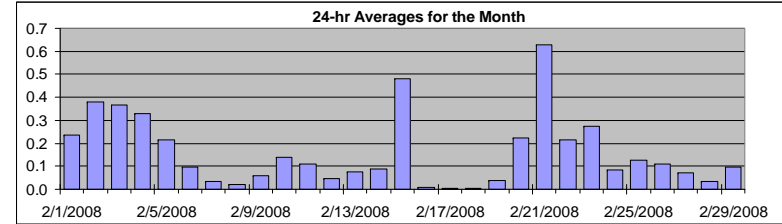
Hydrogen Sulphide (H₂S)

Monitoring Dates: February 1, 2008 to March 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:	8.9	ppb	15-Feb	15:00 16:00
Maximum 24-hr Value:	0.6	ppb	21-Feb	



AIC Time:	29 hrs	Operational Time:	664 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.4	0.2	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-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.2	0.9
2-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0.4	0.8
3-Feb-08	A	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
4-Feb-08	A	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.3
5-Feb-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
6-Feb-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
7-Feb-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
8-Feb-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
9-Feb-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
10-Feb-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
11-Feb-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
12-Feb-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-Feb-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
14-Feb-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
15-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0.5	8.9
16-Feb-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
17-Feb-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
18-Feb-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
19-Feb-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
20-Feb-08	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
21-Feb-08	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	7	1	2	1	0	0	0.6	7.2
22-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0.2	0.5
23-Feb-08	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
24-Feb-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
25-Feb-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
26-Feb-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
27-Feb-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
28-Feb-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
29-Feb-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
Hourly Avg	N	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max	0.0	0.9	0.8	0.7	0.8	0.9	0.4	0.8	0.8	2.3	0.6	0.3	0.4	0.4	0.4	0.4	8.9	0.5	0.7	7.2	0.9	1.7	0.9	0.7	0.9	0.9	

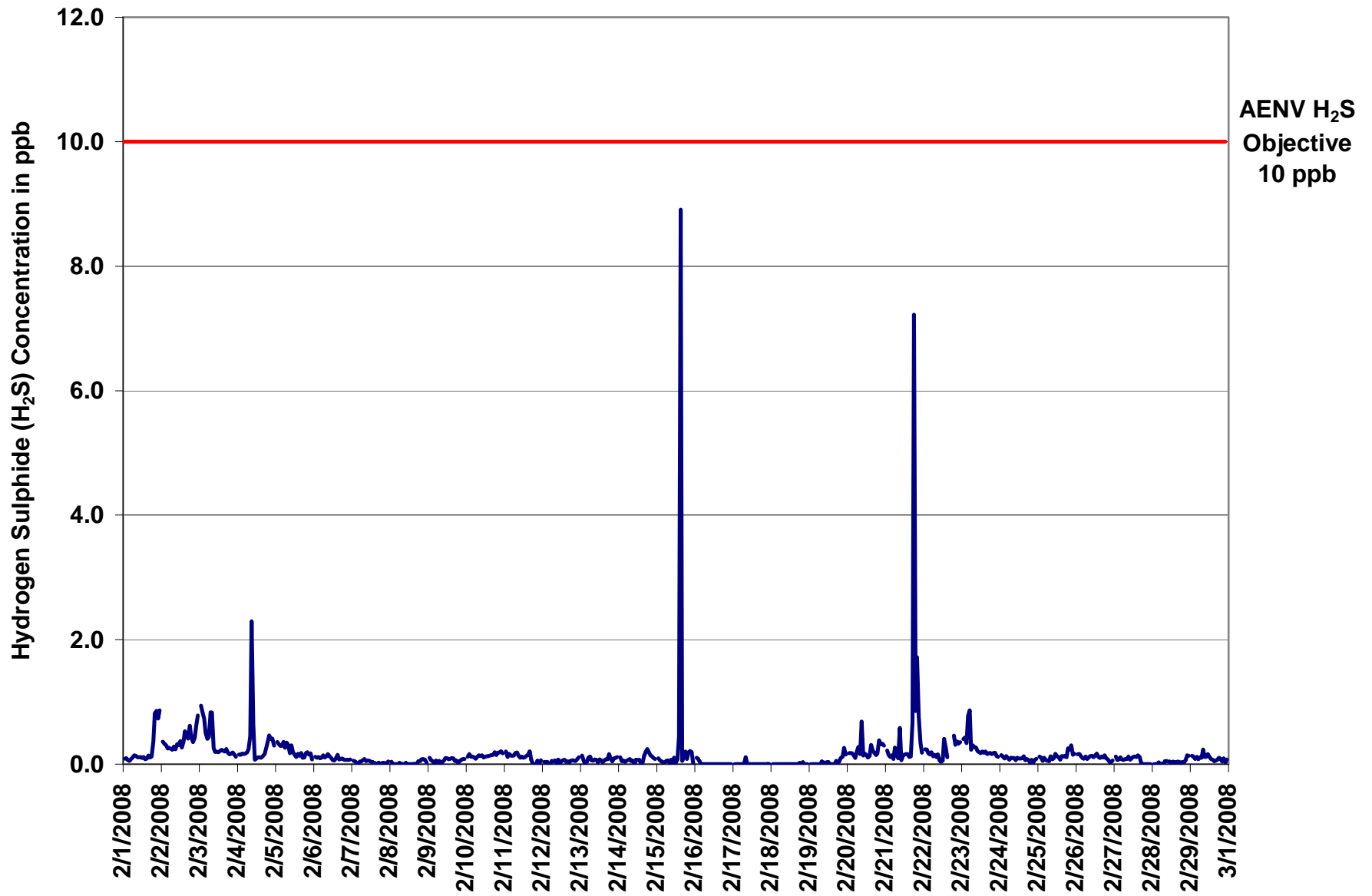


Figure 56. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

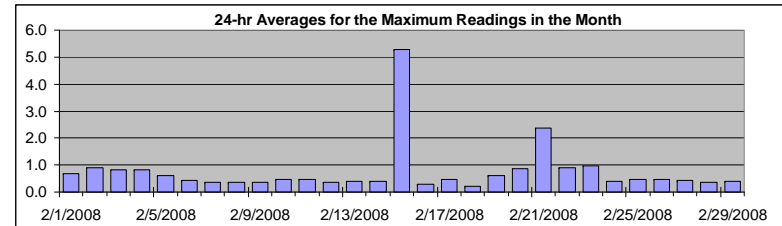
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	101.5	ppb	15-Feb	15:00 16:00
Maximum 24-hr Value:	5.3	ppb	15-Feb	



AIC Time:	29 hrs	Operational Time:	664 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	1.3	0.5	0.4	0.3	0.2	0.1	0.8 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-Feb-08	A	0	0	0	0	1	1	0	0	0	1	0	1	0	0	1	0	1	1	1	1	1	1	2	0.7	1.5
2-Feb-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	0.9	1.4
3-Feb-08	A	2	1	1	1	1	1	2	2	1	1	0	1	1	1	0	1	1	0	0	0	1	0	0.8	2.2	
4-Feb-08	A	0	0	1	0	0	0	1	1	5	2	1	0	0	0	1	0	1	1	1	1	1	1	0.8	4.7	
5-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	0	0	0	0.6	1.2	
6-Feb-08	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	1.2	
7-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	
8-Feb-08	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	1.2	
9-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
10-Feb-08	A	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0.5	0.6	
11-Feb-08	A	1	0	0	0	0	0	1	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0.5	0.9	
12-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.5	
13-Feb-08	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.6	
14-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0.4	0.6	
15-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	11	101	0	0	1	0	1	1	0	5.3	101.5	
16-Feb-08	A	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
17-Feb-08	A	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.7	
18-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.6	
19-Feb-08	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	5	2	0.6	5.0	
20-Feb-08	A	1	0	1	0	0	1	1	0	6	0	1	1	1	0	1	1	1	2	1	1	1	1	0.9	5.7	
21-Feb-08	A	0	1	0	1	1	2	1	1	6	0	0	0	0	0	0	0	2	27	4	4	1	1	2.4	26.7	
22-Feb-08	A	1	1	1	0	2	0	1	1	1	0	0	0	3	1	0	C	C	C	1	1	1	1	0.9	2.6	
23-Feb-08	A	1	1	1	5	4	1	1	1	1	0	1	1	0	1	0	1	0	1	0	1	0	0	1.0	5.2	
24-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.5	
25-Feb-08	A	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0.5	0.9	
26-Feb-08	A	1	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.5	
27-Feb-08	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0.4	1.4	
28-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
29-Feb-08	A	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
Hourly Avg	N	0.5	0.5	0.4	0.6	0.6	0.5	0.6	0.8	1.0	0.5	0.4	0.4	0.5	0.8	3.9	0.4	0.5	1.5	0.6	0.6	0.5	0.7	0.5		
Hourly Max	0.0	2.0	1.5	1.2	5.2	4.1	2.1	2.2	5.7	6.0	1.5	0.9	1.1	2.6	11.1	101.5	1.4	1.6	26.7	3.7	4.0	1.4	5.0	1.6		

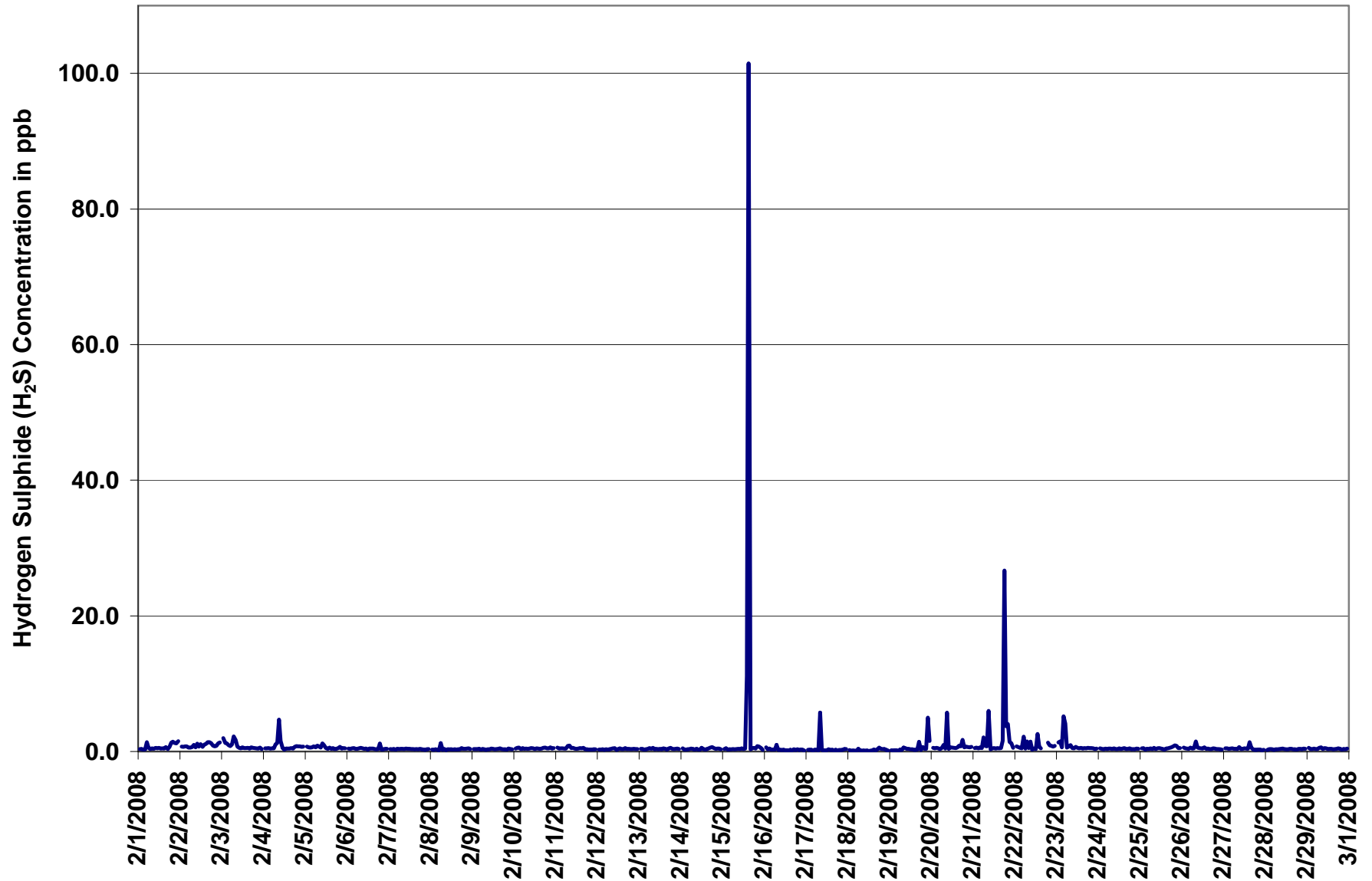
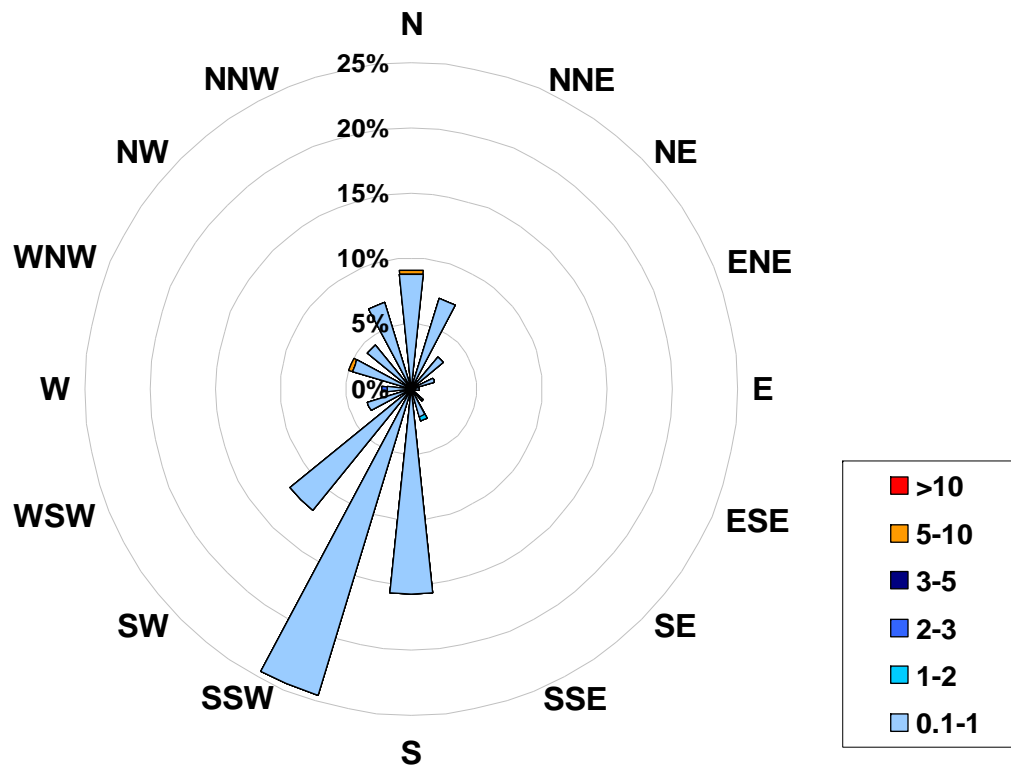


Figure 57. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of H ₂ S in ppb Range			Frequency (hrs)
0.1	<	1	660
1	to	2	1
2	to	3	1
3	to	5	0
5	to	10	2
	>	10	0
Total Non-Zero Values			664

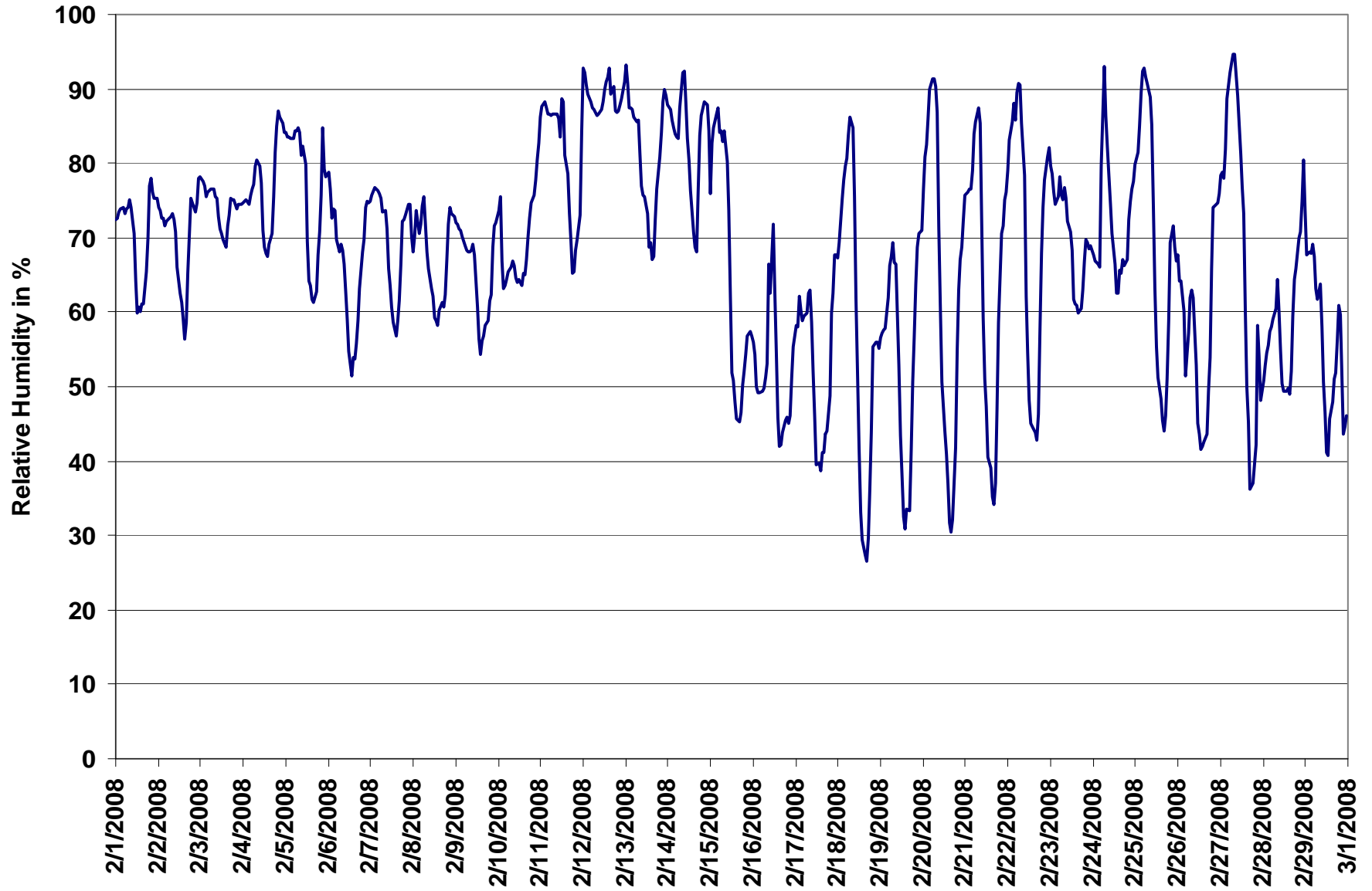


Figure 58. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

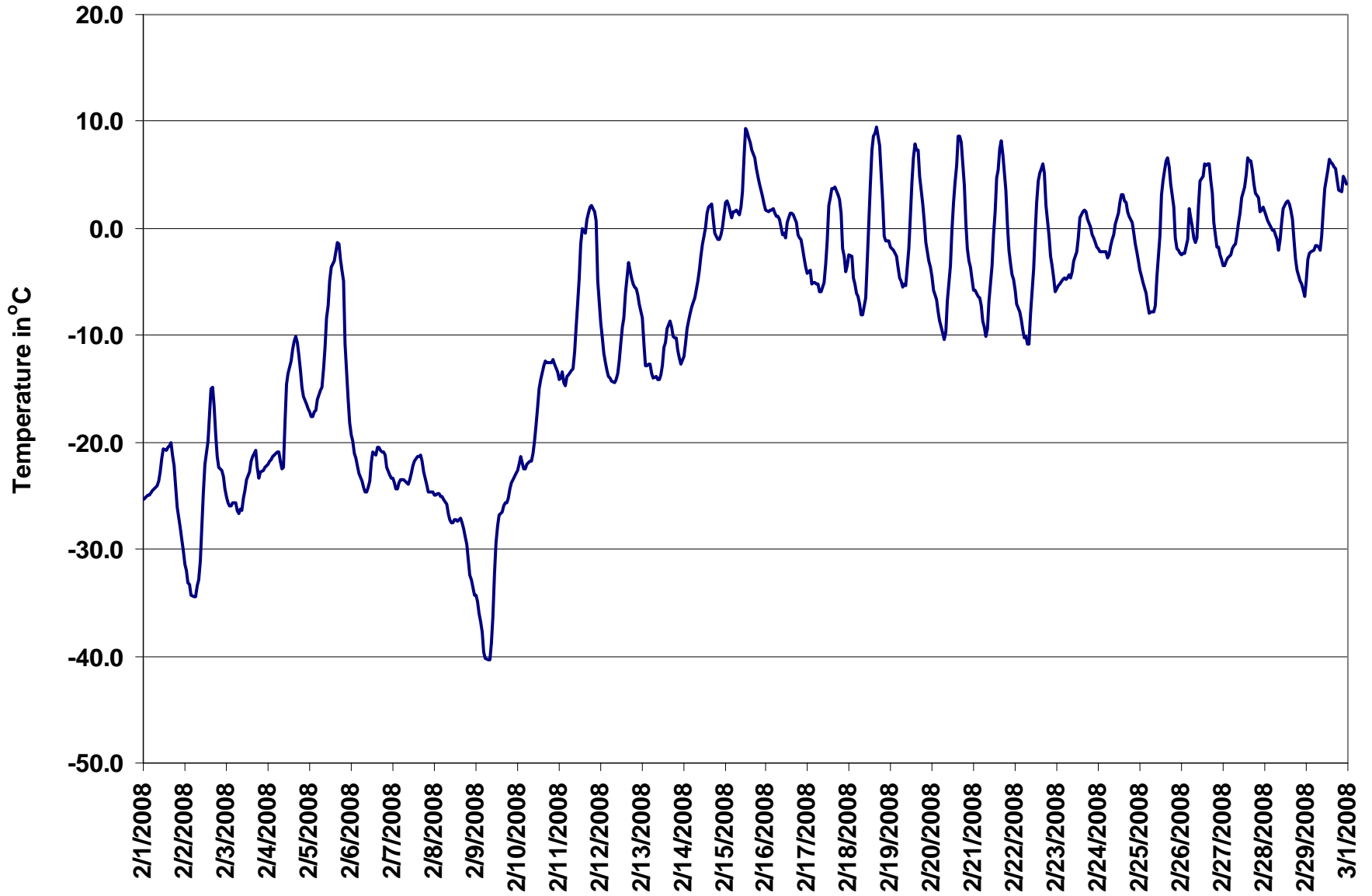
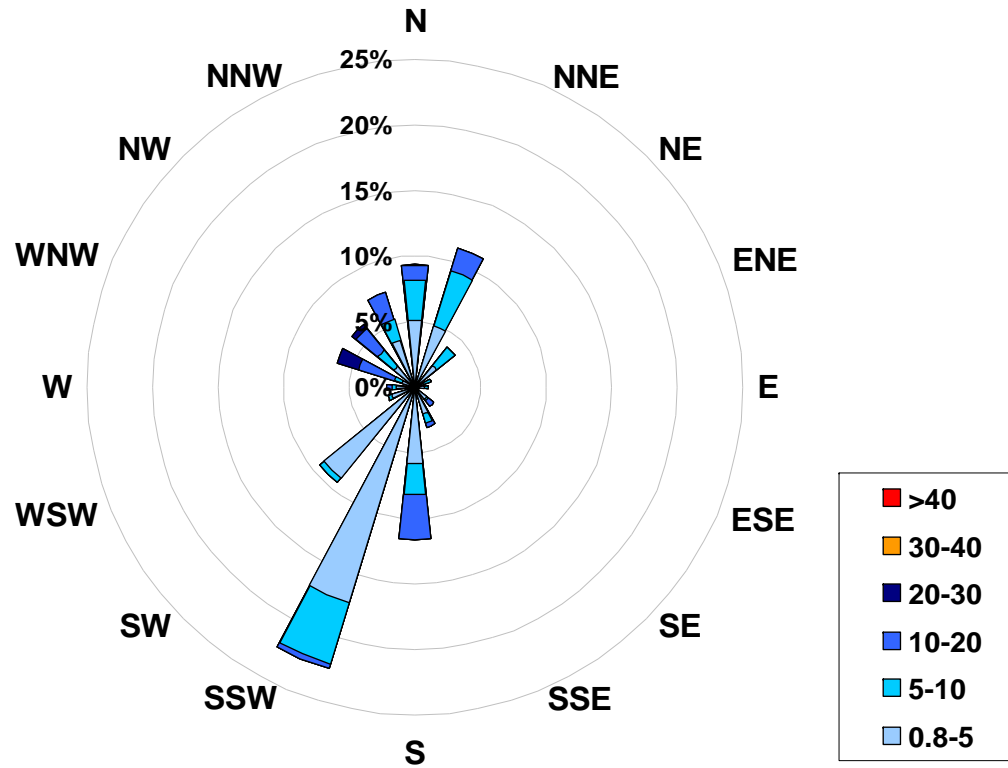


Figure 59. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for February 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	411
5	to	10	158
10	to	20	107
20	to	30	16
30	to	40	0
	>	40	0
Total Non-Zero Values			692

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for February 2008

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
9a	Spirit River	0.7	35.1	2.4	
9b	Spirit River	0.8	34.7	2.7	
32a	Gold Creek	0.5	20.9	5.6	
32b	Gold Creek	0.5	20.3	5.3	
34a	Puskwaskau	0.4	32.1	1.3	
34b	Puskwaskau	0.4	34.0	1.3	
36a	Guy	0.5	43.2	3.9	
36b	Guy	0.5	37.4	2.2	
59a	Blue Sky	0.6	39.9	3.1	
59b	Blue Sky	0.6	40.9	2.9	
61a	Musreau Lake	0.3	34.0	1.5	
61b	Musreau Lake	0.4	33.4	1.7	
49a	Grande Prairie HP	0.6	18.9	12.7	
49b	Grande Prairie HP	0.6	21.7	14.4	
1	Silver Valley	1.0	35.9	2.5	08-27-081-11 W6M
2	Bay Tree	0.6	37.5	1.6	13-16-078-13 W6M
3	Forth Creek	0.9	35.5	2.0	04-13-082-07 W6M
4	Gordondale	0.9	38.8	1.9	04-34-078-10 W6M
5	Boone Creek	0.7	31.2	2.6	01-23-076-11 W6M
7	Steeprock Creek	0.6	32.7	1.5	09-35-072-13 W6M
9	Spirit River	0.7	34.9	2.5	08-12-079-07 W6M
10	Woking	0.9	29.5	1.9	01-13-076-07 W6M
11	Webber Creek	0.5	31.3	3.5	09-36-074-09 W6M
12	Hythe	0.6	29.4	3.9	14-36-072-11 W6M
14	Sylvester	0.3	29.2	2.7	08-06-069-12 W6M
16	Beaverlodge	0.6	31.3	4.4	15-36-071-10 W6M
17	Poplar	0.8	30.3	3.7	13-06-073-08 W6M
18	Saddle Hills	0.7	35.5	1.8	04-25-074-07 W6M
19	Wanham	1.0	36.7	2.0	16-22-077-03 W6M
20	Shaftesbury	0.5	32.8	2.3	04-03-082-23 W5M
21	Eaglesham	0.6	38.4	1.7	16-21-079-25 W5M
23	Bear Lake	0.8	28.8	3.5	15-31-072-06 W6M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.5	35.5	4.1	12-31-070-08 W6M
25	Pinto Creek	0.4	29.3	2.8	04-24-069-11 W6M
26	Flyingshot	0.5	23.9	6.5	15-36-070-07 W6M
27	Grande Prairie I	0.6	23.2	15.1	08-15-071-06 W6M
28	Clairmont Lake	0.9	35.5	2.9	09-06-073-04 W6M
29	Smoky Heights	0.9	31.7	3.7	04-06-075-02 W6M
30	Fitzsimmons	0.5	28.3	3.4	15-36-072-03 W6M
32	Gold Creek	0.5	20.6	5.4	06-33-067-05 W6M
33	Wapiti	0.5	30.4	4.1	02-25-071-03 W6M
34	Puskwaskau	0.4	33.1	1.3	15-35-074-25 W5M
35	Jean Cote	0.9	37.0	2.1	12-35-079-21 W5M
36	Guy	0.5	40.3	3.1	03-04-076-22 W5M
37	Crooked Creek	0.5	31.0	3.4	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.6	34.7	2.0	12-01-073-22 W5M
40	McLennan	0.8	37.5	2.2	03-29-077-19 W5M
41	Valleyview	0.6	33.5	2.4	09-30-069-22 W5M
42	Sunset House	0.6	37.1	1.3	05-32-070-19 W5M
43	High Prairie	0.6	N/A	3.5	16-13-074-17 W5M
44	Peavine	0.5	35.8	1.3	03-05-079-15 W5M
45	Gift Lake	0.4	31.7	2.2	10-07-079-12 W5M
46	Little Smoky	0.5	29.4	7.3	12-01-065-21 W5M
47	Kinuso	0.3	32.5	3.1	12-10-073-10 W5M
48	Deer Mountain	0.4	38.0	1.3	15-22-068-09 W5M
49	Grande Prairie HP	0.6	20.3	13.5	17-26-071-06 W6M
50	Clear River	0.9	39.8	1.7	SE-03-084-12 W6M
51	Bear Canyon	1.2	N/A	2.8	SE-28-085-12 W6M
52	Worsley	0.4	32.5	4.1	NE-34-085-07 W6M
53	Hines Creek	0.5	38.7	1.9	SW-09-084-04 W6M
54	Ronan	0.2	36.5	1.9	SE-03-082-04 W6M
55	Cadotte Lake School	0.4	22.9	4.6	NE-23-086-16 W5M
56	Simon Lake Store	1.1	33.2	2.7	SE-32-086-17 W5M
57	Dixonville	0.4	37.8	2.5	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.7	37.9	2.0	NW-19-083-23 W5M
59	Blue Sky	0.6	40.4	3.0	SW-35-081-02 W6M
60	Gerry Lake	0.4	38.3	1.1	SW-22-084-02 W6M
61	Musreau Lake	0.3	33.7	1.6	NE-22-064-05 W6M

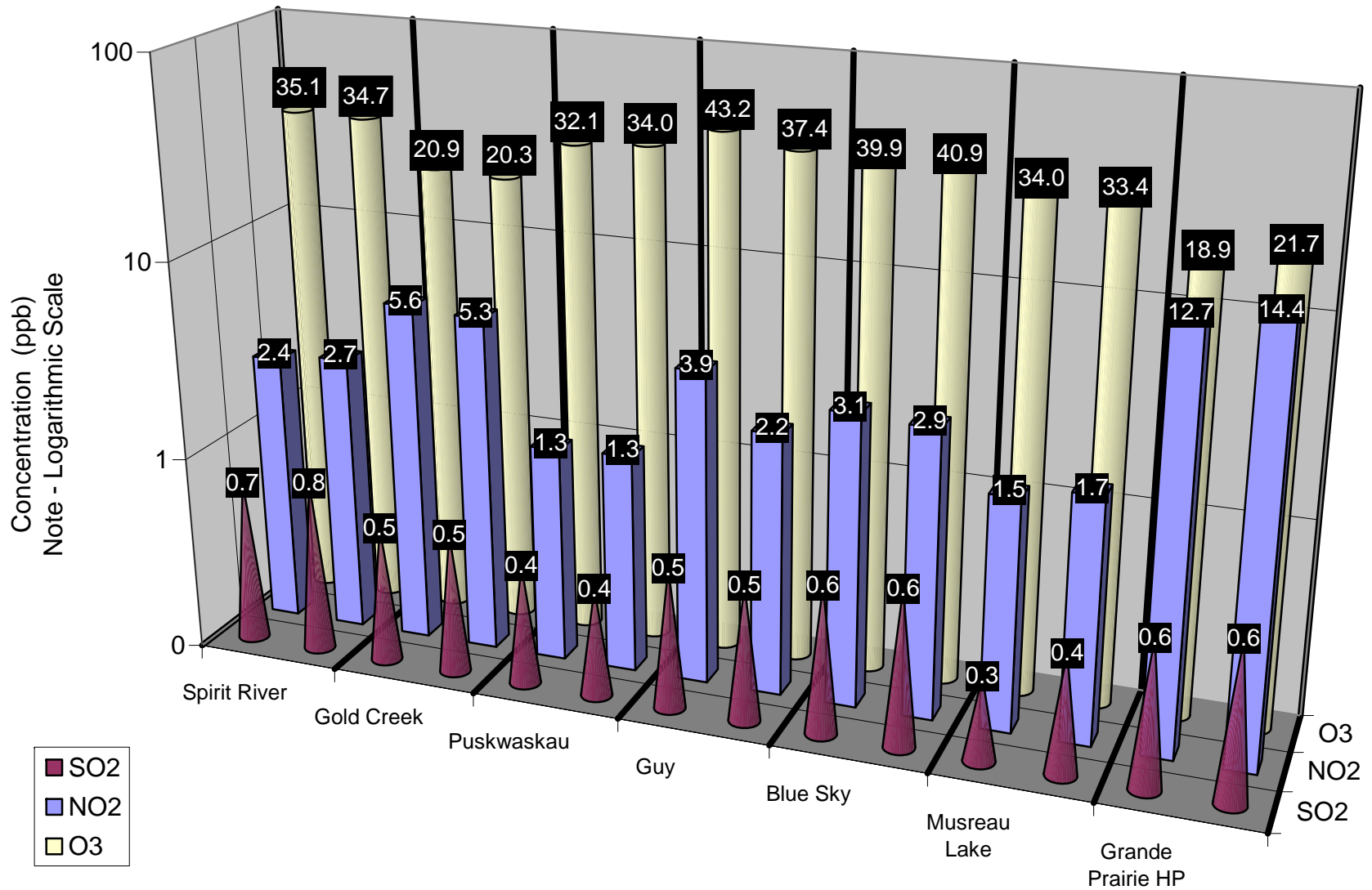


Figure 61. Duplicate Summary Chart

Table 2. Passive Summary Results for February 2008

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for February 2008 (PASZA Zone)			
Mean	0.6	33.1	3.2
Standard Deviation	0.2	4.9	2.5
Minimum	0.2	20.3	1.1
Minimum At	Ronan (#54)	Grande Prairie HP (#49)	Gerry Lake (#60)
Maximum	1.2	40.4	6.0
Maximum At	Bear Canyon (#51)	Blue Sky (#59)	Grande Prairie I (#27)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	1.0	30.1	7.6
PASZA Beaverlodge passive	0.6	31.3	4.4
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.5	15.1	21.4
PASZA Grande Prairie passive	0.6	20.3	13.5
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.9	28.6	5.9
PASZA Spirit River passive	0.7	34.9	2.5

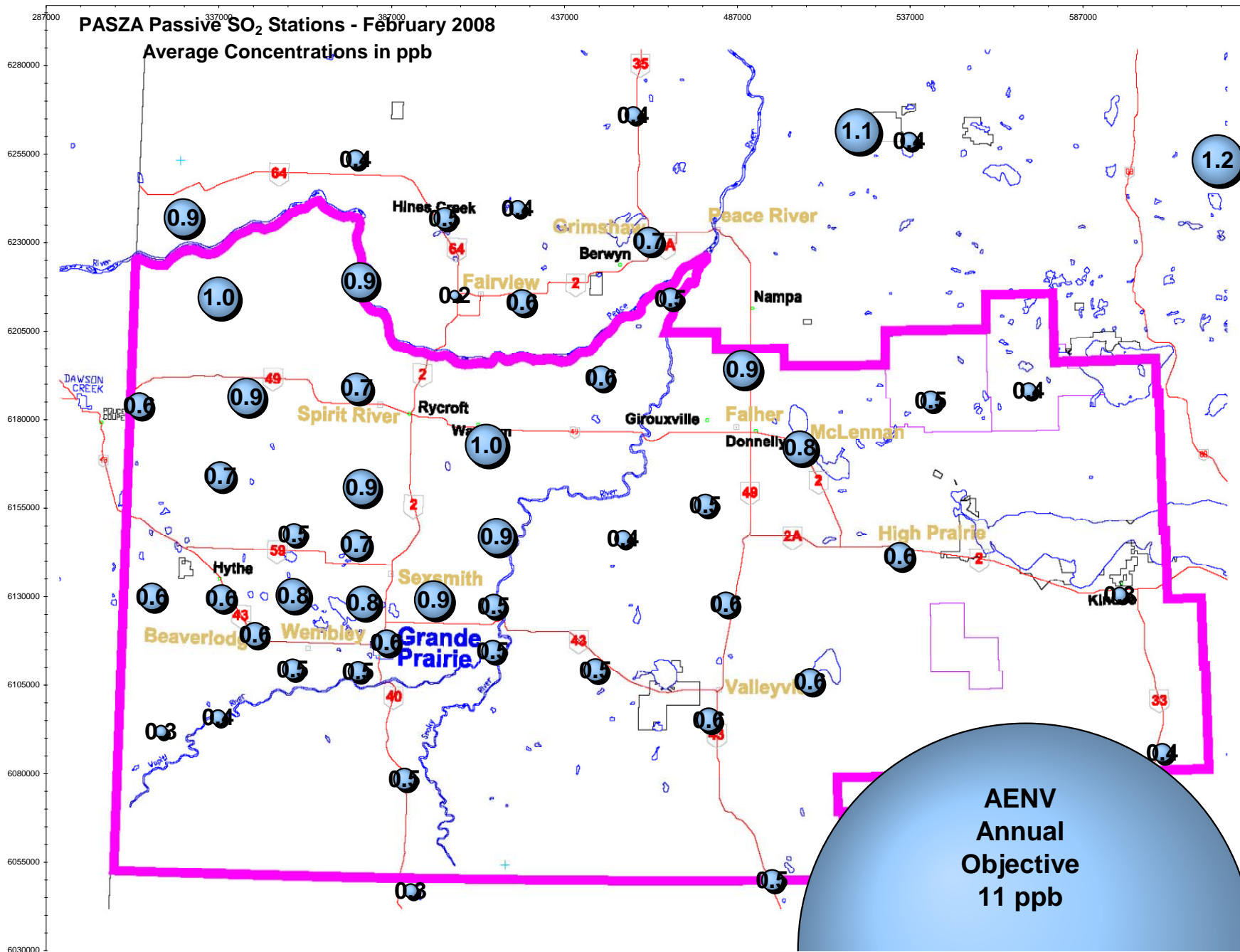


Figure 62. SO₂ Bubble Chart

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

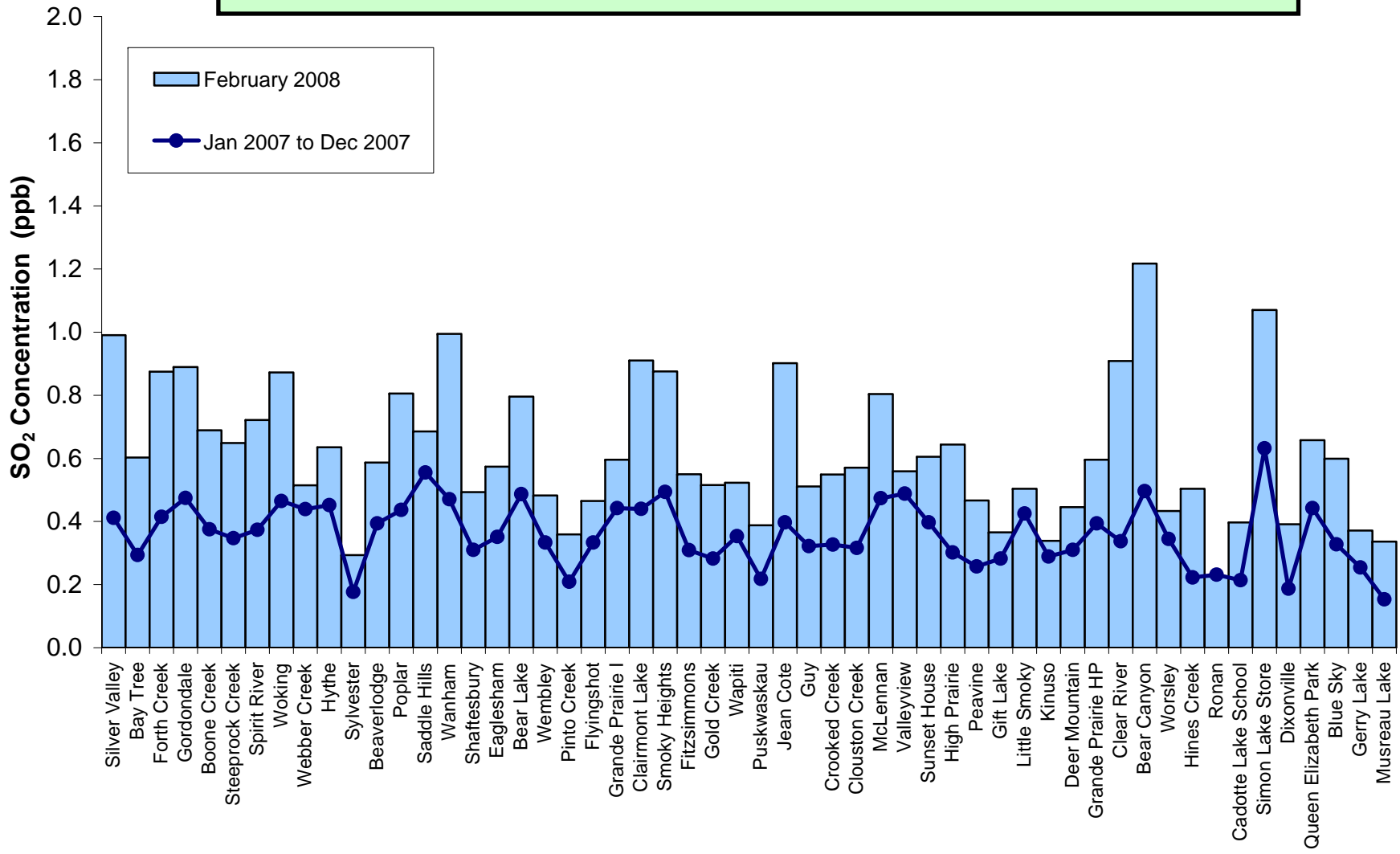


Figure 63. SO₂ Summary Chart

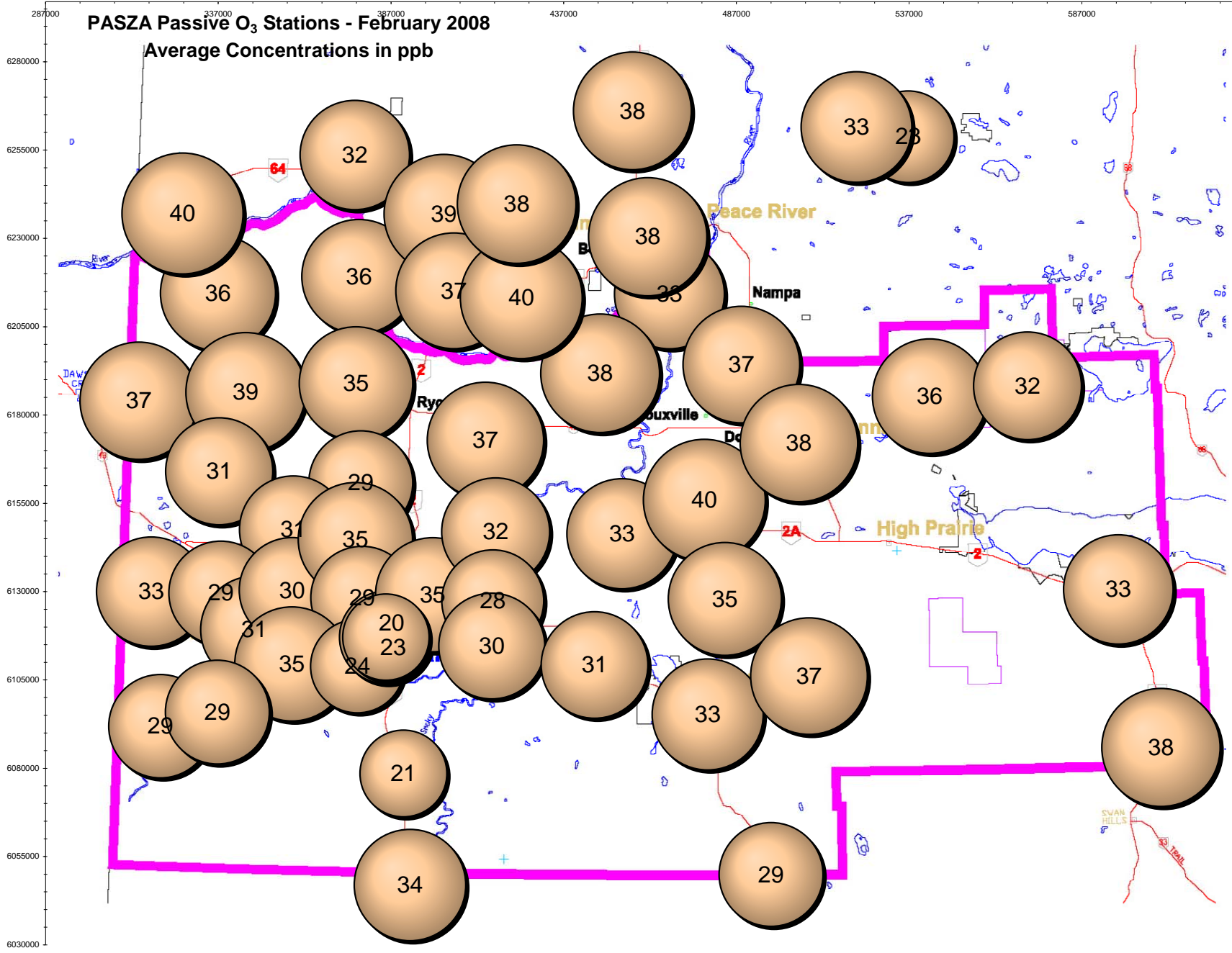


Figure 64. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

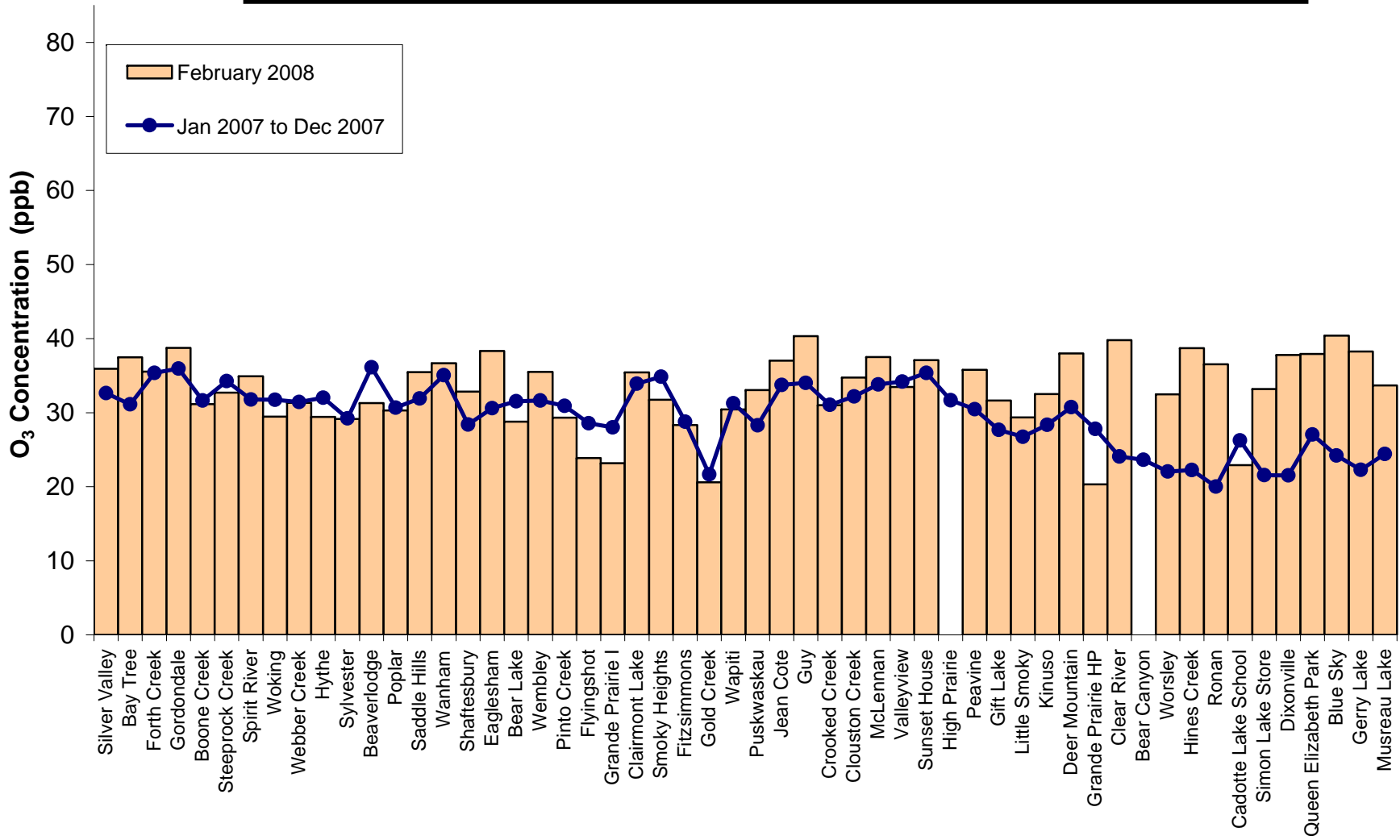


Figure 65. O₃ Summary Chart

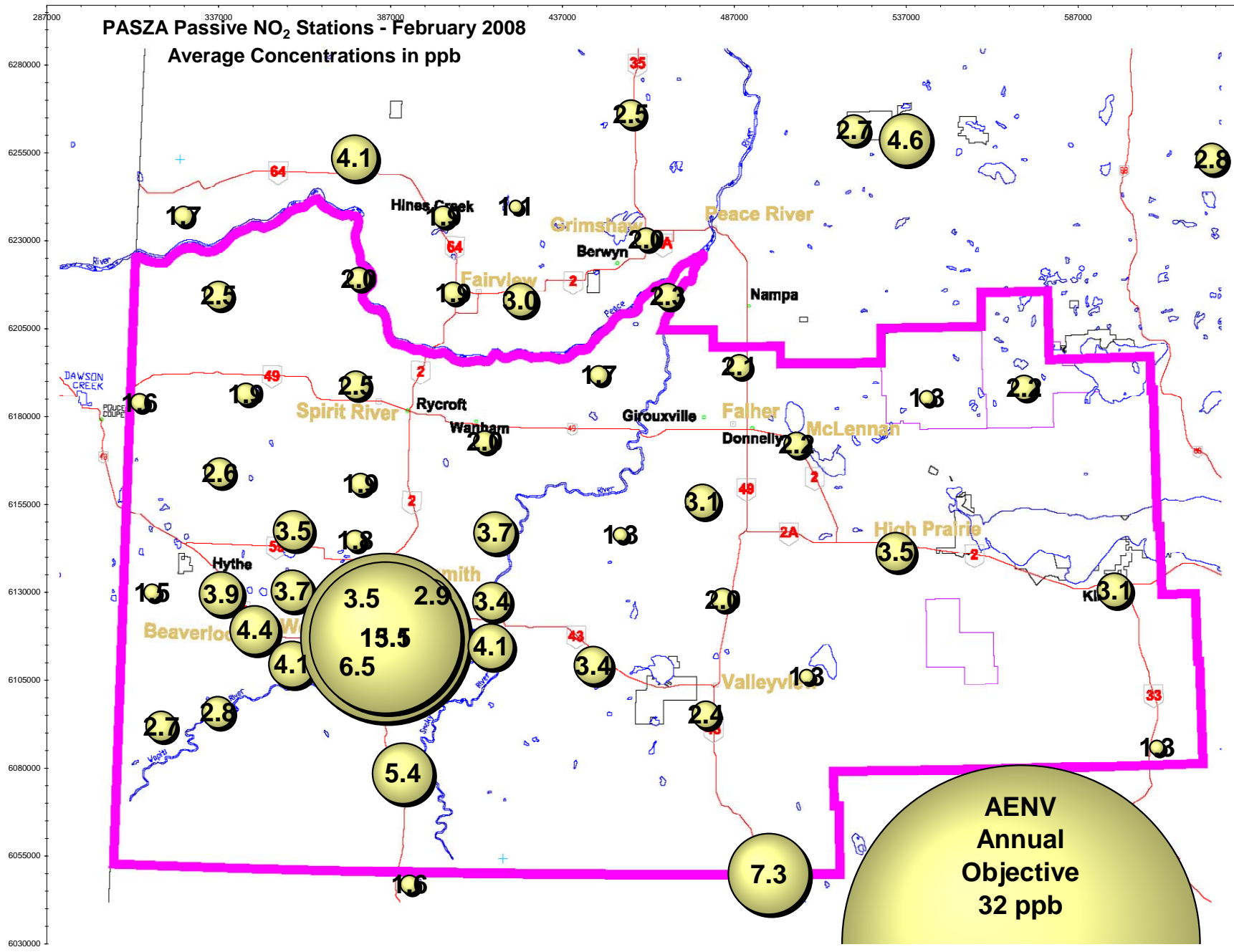


Figure 66. NO₂ Bubble Chart

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

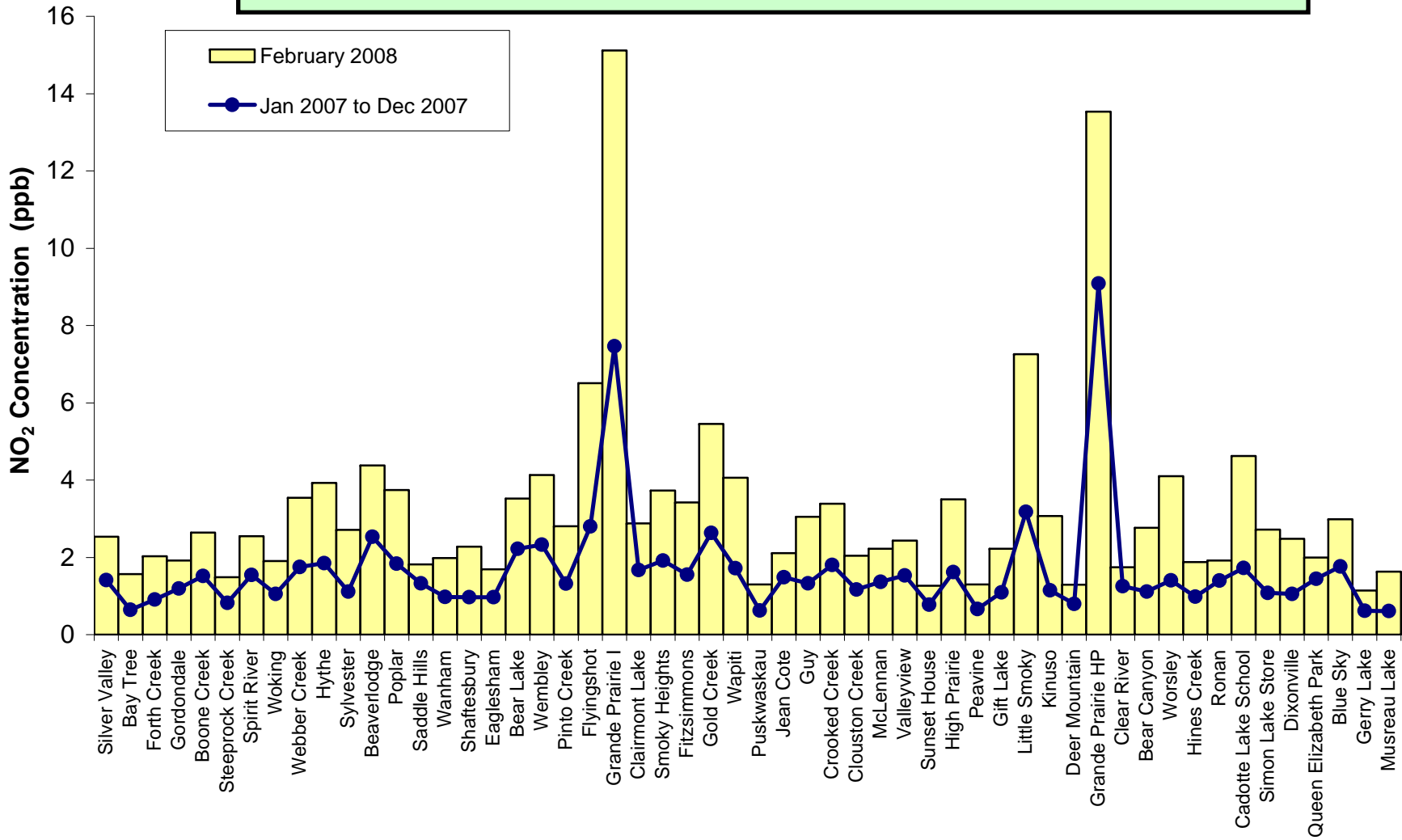


Figure 67. NO₂ Summary Chart

February 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 and TRS**

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

**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 ReportParameter **SO2**Air Monitoring Network **PASZA****Station Information**

Calibration Date	February 6, 2008	Previous Calibration	January 11, 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)	11:45	End Time (MST)	15:00
Barometric Pressure	0.921 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 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
	<u>Before</u>		<u>After</u>
Calculated slope	0.995235	Calculated slope	0.996475
Calculated intercept	-1.092679	Calculated intercept	-1.537401
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.6		7.5	
Coefficient	.807		.800	
Pressure	640.6	mm Hg	643.5	mm Hg
Flow	0.470	lpm	0.480	lpm
Lamp Voltage	44056	Hz	44296	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	0.2	N/A
4988	39.82	398.4	400.6	0.9944
4988	19.91	200.0	203.0	0.9853
4988	9.93	99.9	103.1	0.9689
4988	0.00	0.0	0.2	As Found Zero
4988	39.82	398.4	400.6	As Found Span
Average Correction Factor				0.9829

Calculated value of As Found Response: 397.4 ppb Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	1.1	ppb	0.0	ppb
Auto span	343.3	ppb	340.1	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



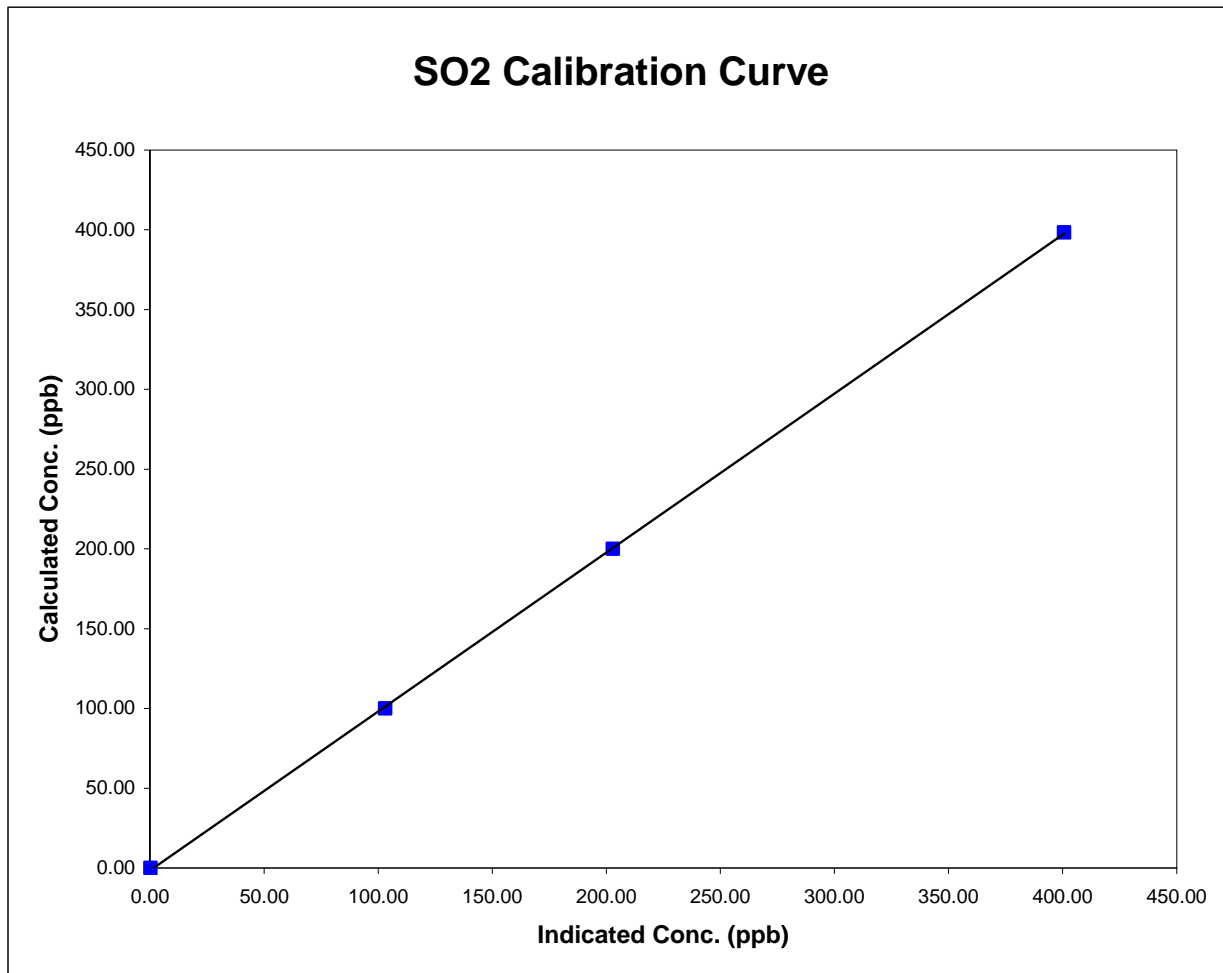
Parameter **SO2**
 Air Monitoring Network **PASZA**

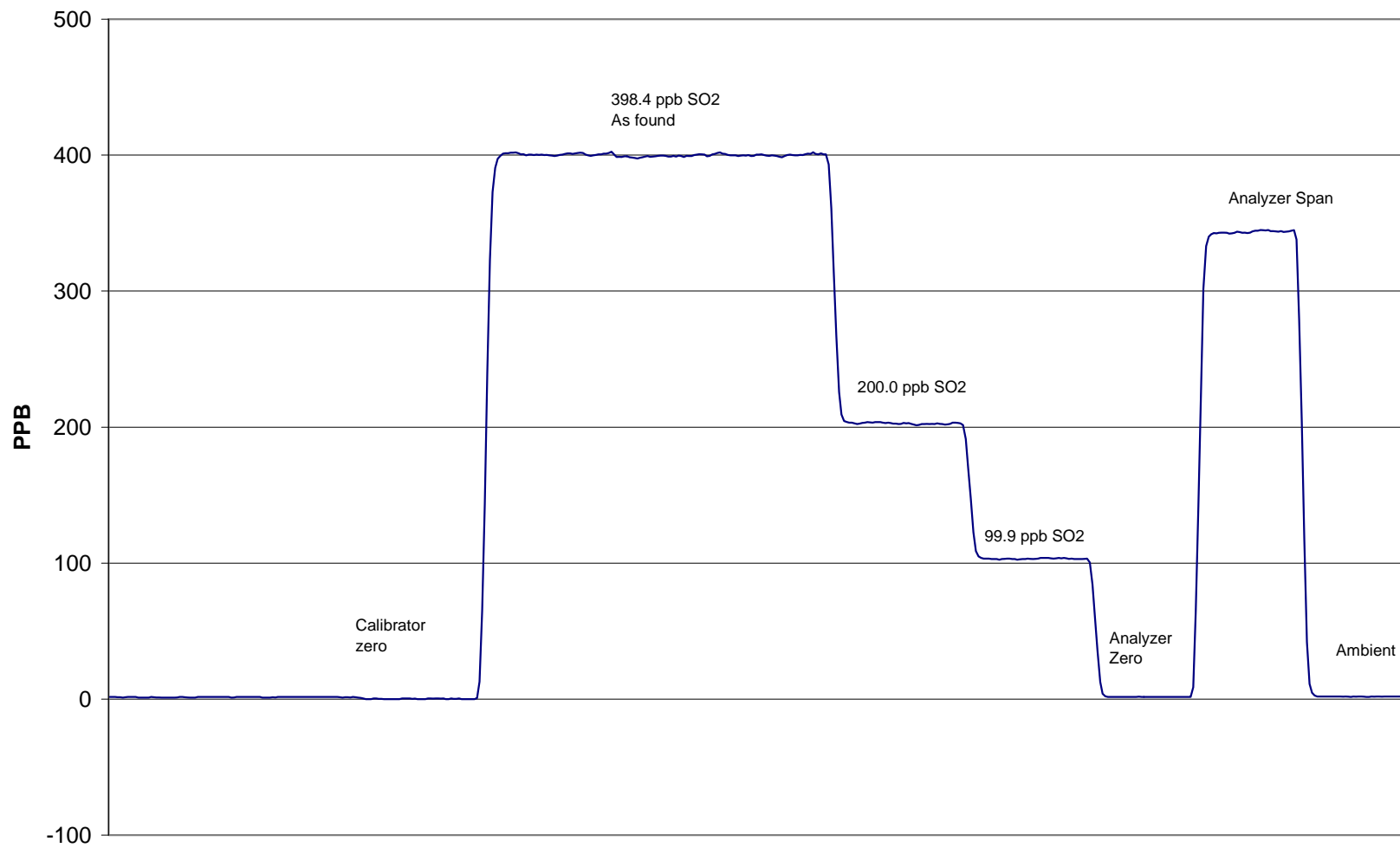
Station Information

Calibration Date	February 6, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	15:00
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	0.2	N/A		
398.4	400.6	0.9944	Correlation Coefficient	0.999948
200.0	203.0	0.9853		
99.9	103.1	0.9689	Slope	0.996475
			Intercept	-1.537401



Henry Pirker SO2 Calibration

February 6, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	February 6, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Other:	_____		
Start Time (MST)	11:45	End Time (MST)	16:50
Barometric Pressure	0.921 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	1.002082	1.003030	1.001967
	Data Offset	-0.377952	-0.921159	-0.348088
After	Data Slope	1.005416	1.006943	1.003879
	Data Offset	0.379983	-1.789928	-1.635951
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	7.7	ppb	7.8	mV
NOx background	8.1	ppb	8.2	mV
NO coefficient	0.678		0.684	
NOx coefficient	1.000		0.997	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	318.0	Deg C
Vacuum	164.9	mm Hg	168.8	mm Hg

Notes: Adjusted Nox

Calibration Report



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

Station Information

Calibration Date: **February 6, 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	0.1	0.0	0.1	N/A	N/A
1	4988	39.82	387.3	387.3	0.0	385.5	386.6	-1.0	1.0046	1.0018
2	4988	19.91	194.4	194.4	0.0	195.7	196.1	-0.4	0.9934	0.9913
3	4988	9.93	97.2	97.2	0.0	99.9	100.0	-0.2	0.9722	0.9711
AFZ	4988	0.00	0.0	0.0	0.0	0.1	0.0	0.1	0.0000	0.0000
AFS	4988	39.88	387.9	387.9	0.0	382.8	383.2	-0.3	1.0132	1.0123
Average Correction Factor									0.9901	0.9881

As Found Concentrations: NO_x= 381.8 NO= 382.8 As Found Percent Change NO_x= -1.6% NO= -1.3%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.88 ccm

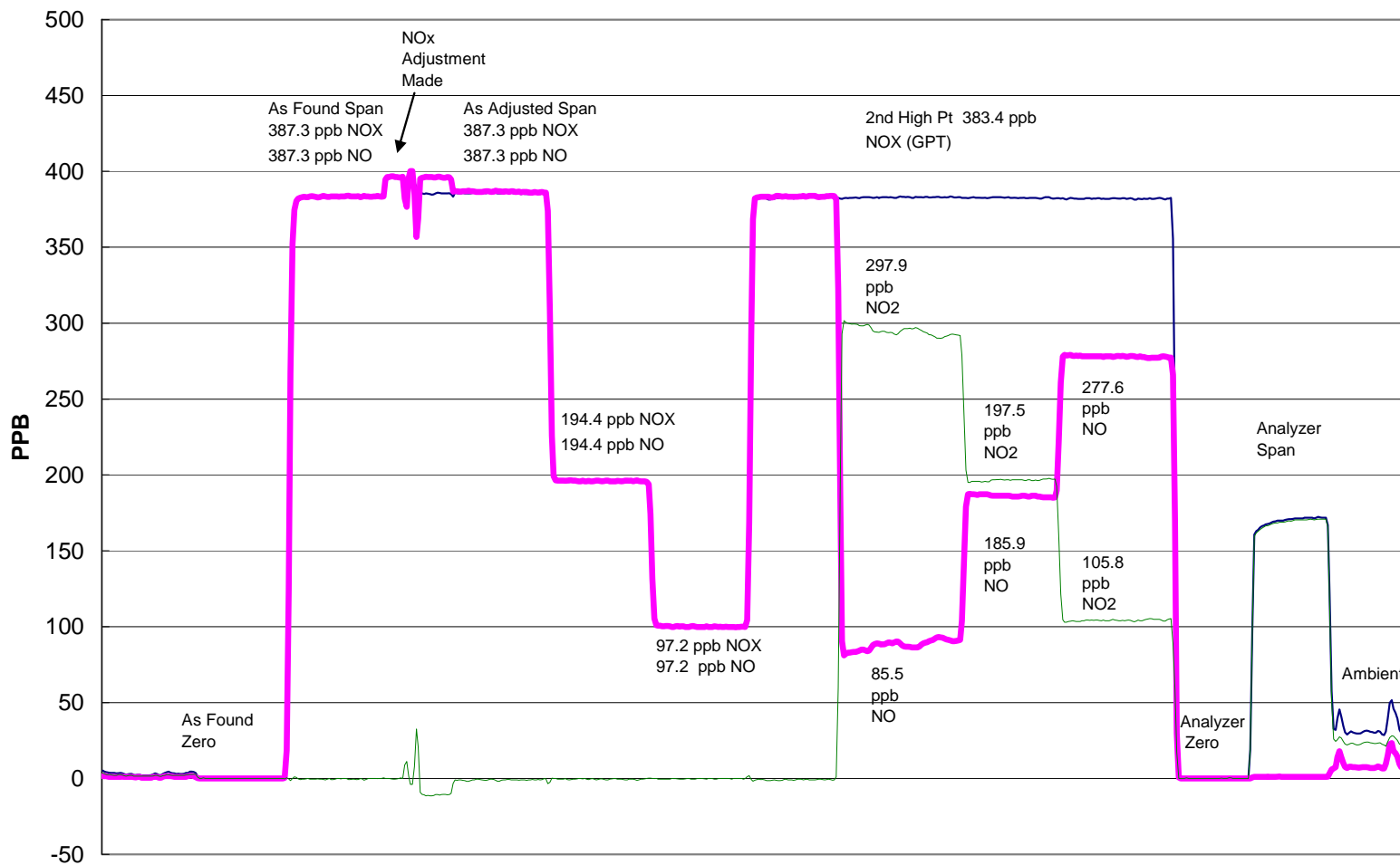
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	383.4	383.3	0.1	382.4	383.4	-1.0	1.0026	0.9996	N/A	N/A
300	383.4	85.5	297.9	382.8	86.8	296.1	1.0017	0.9850	1.0060	99.4%
200	383.4	185.9	197.5	382.7	186.8	196.1	1.0018	0.9951	1.0070	99.3%
100	383.4	277.6	105.8	382.1	278.2	104.1	1.0033	0.9980	1.0158	98.4%
Average Correction Factor							1.0023	0.9927	1.0096	99.1%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-0.7	0.8	0.5	ppb	0.7	1.0	1.0	ppb
Auto span	168.5	166.5	2.1	ppb	170.6	171.3	-0.6	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



February 6, 2008

Calibration Summary

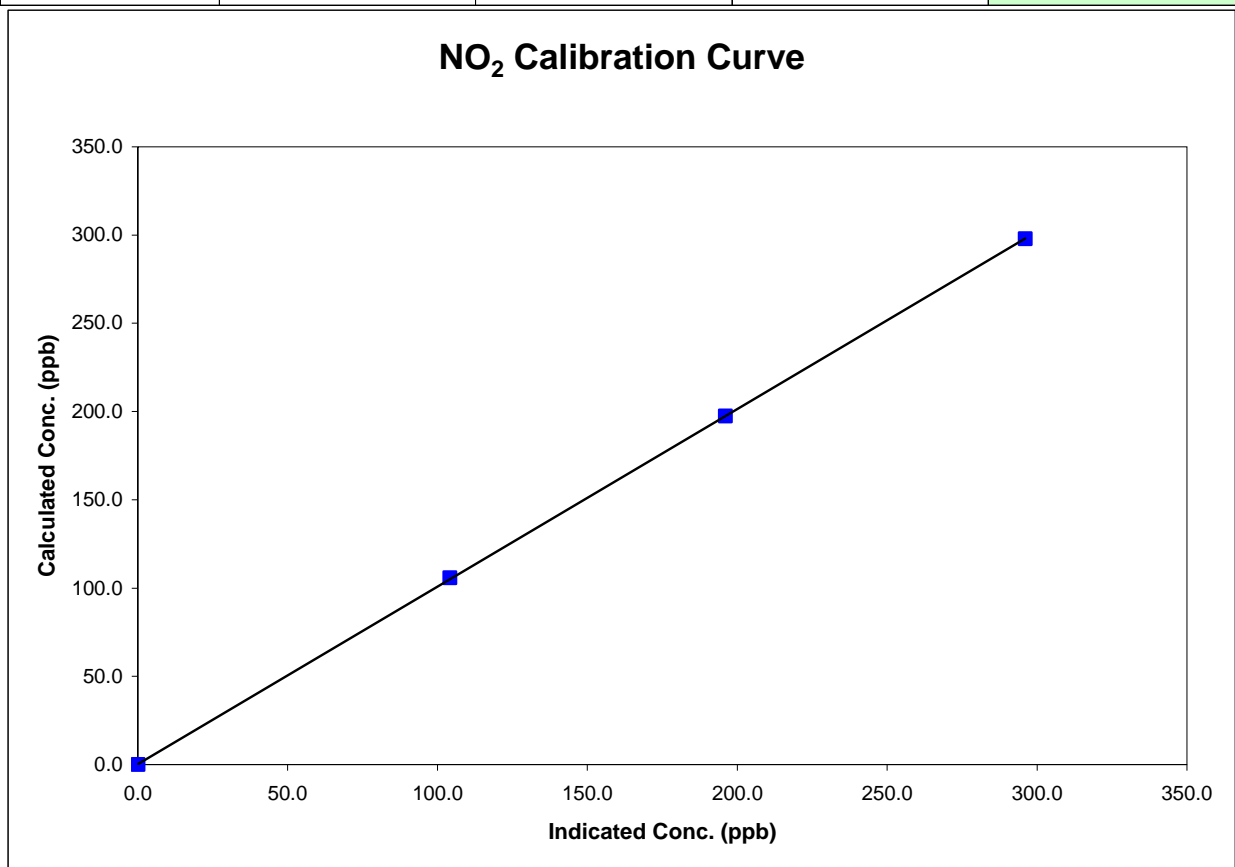
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 6, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	16:50
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	0.1	0.0000	Correlation Coefficient	0.999985
297.9	296.1	1.0060		
197.5	196.1	1.0070		
105.8	104.1	1.0158		
			Slope	1.005416
			Intercept	0.379983



Calibration Summary

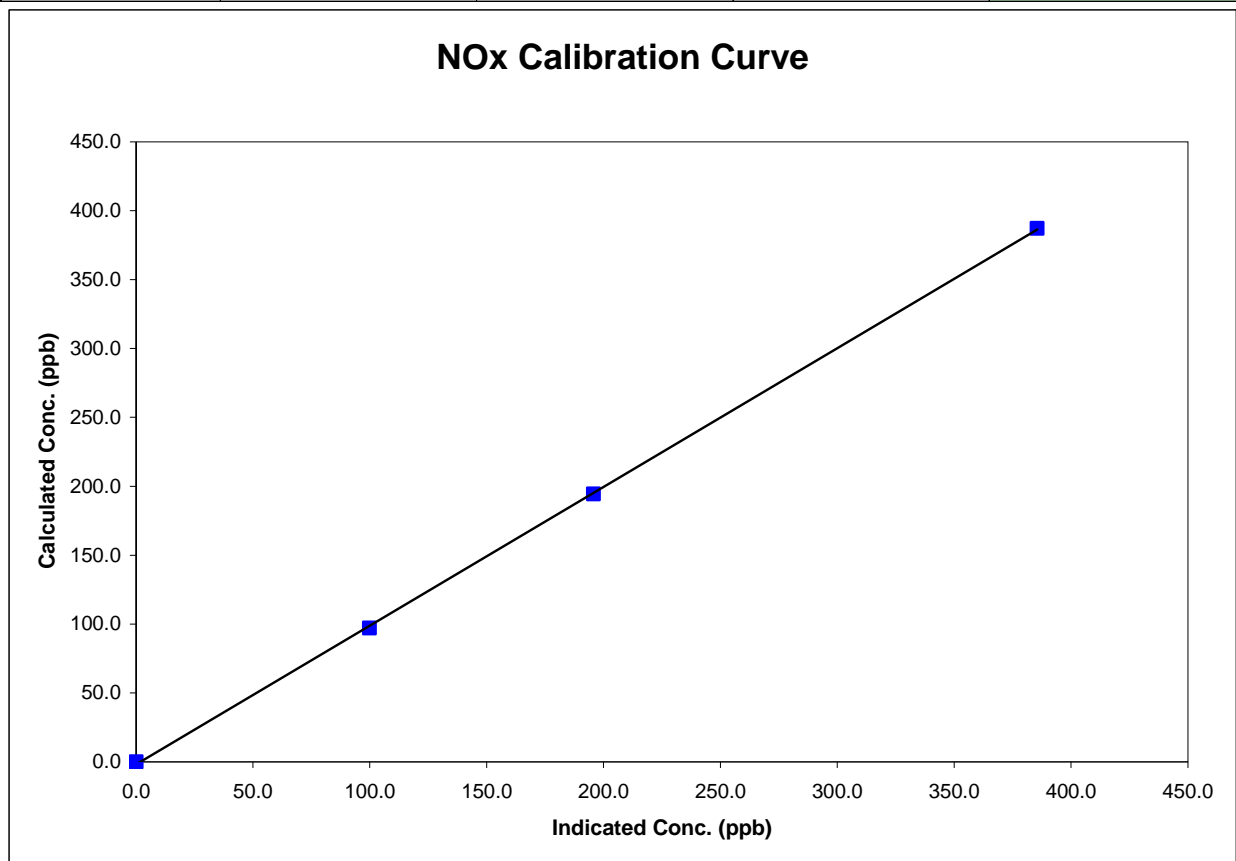
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 6, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	16:50
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	0.1	0.0000	Correlation Coefficient	0.999913
387.3	385.5	1.0046		
194.4	195.7	0.9934	Slope	1.006943
97.2	99.9	0.9722		
			Intercept	-1.789928



Calibration Summary

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

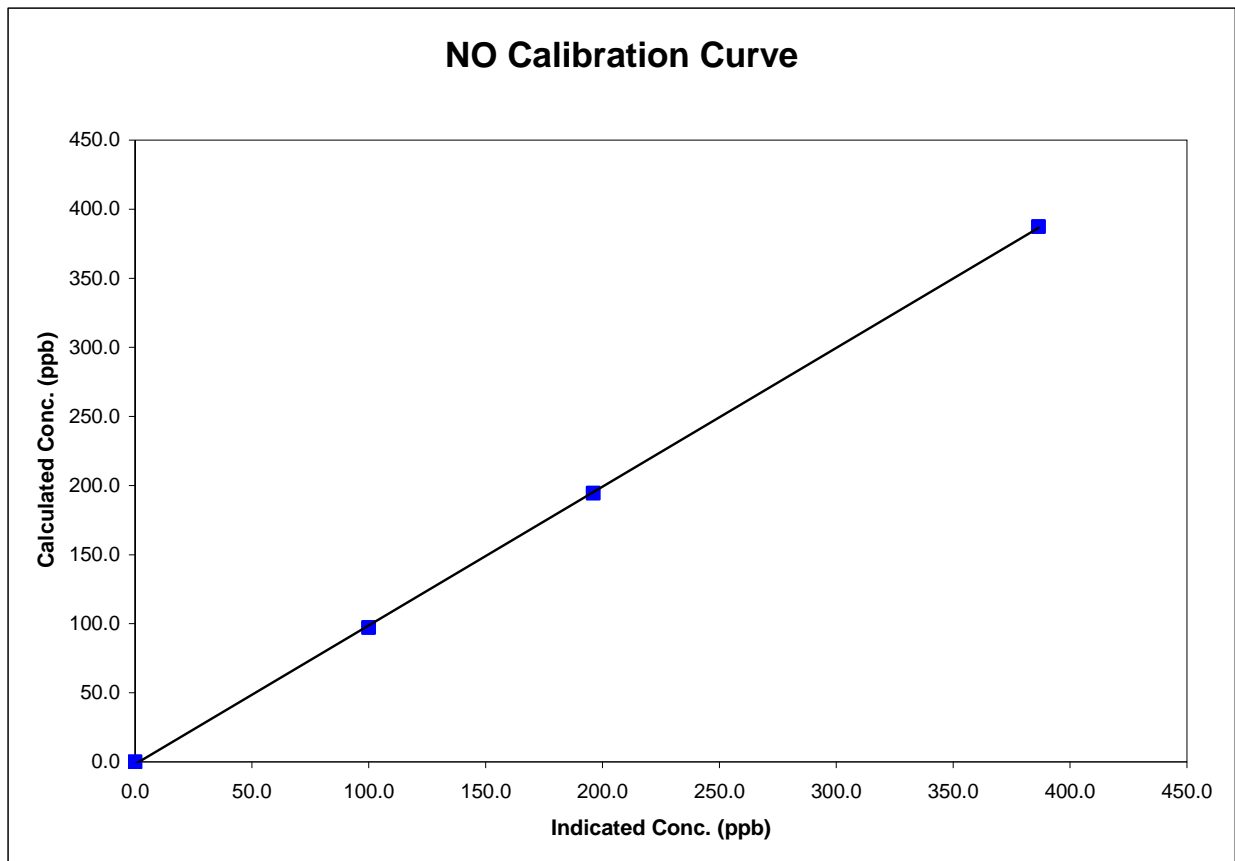


Station Information

Calibration Date	February 6, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	16:50
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	N/A		
387.3	386.6	1.0018	Correlation Coefficient	0.999917
194.4	196.1	0.9913		
97.2	100.0	0.9711	Slope	1.003879
			Intercept	-1.635951



Calibration Report

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

Station Information

Calibration Date	February 8, 2008	Previous Calibration	January 11, 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)	9:45	End Time (MST)	12:45
Barometric Pressure	0.929 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	1.007818	Calculated slope	0.995362
Calculated intercept	0.494040	Calculated intercept	-1.648440

Analyzer make	TECO 49C	Analyzer serial #	607415761
---------------	----------	-------------------	-----------

	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.6	ppb
slope	1.006		0.981	
O3 Lamp temp	71	Deg C	71.1	Deg C
Intensities	93243/73081	mV	100386/79581	mV
Pressure	698.5	inches Hg	689.4	inches Hg
Flow A	673	ccm	668	ccm
Flow B	685	Deg C	684	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	0.1	N/A
300	4990	297.9	298.7	0.9974
200	4990	197.5	202.9	0.9735
100	4990	105.8	108.9	0.9711
0	4990	0.0	0.1	As found zero
300	4990	297.9	304.1	As found span
Average Correction Factor				0.9807

Calculated value of As Found Response: 306.9 ppm Percent Change of As Found: 3.0%

	before calibration		after calibration	
Auto zero	1.9	ppb	-0.6	ppb
Auto span	463.5	ppb	489.6	ppb

Notes: _____

Calibration Performed By: C Whiteley

Calibration Summary

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

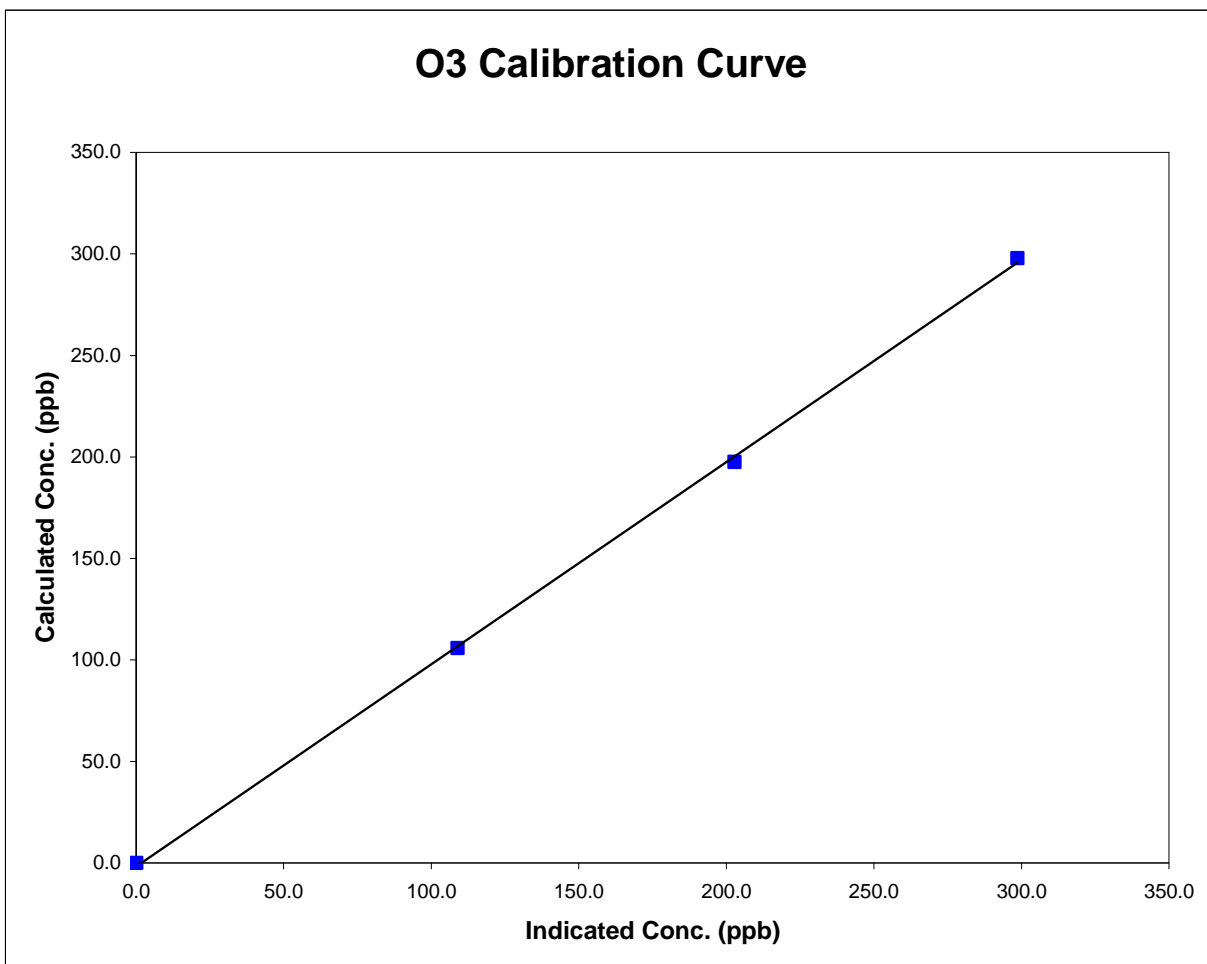


Station Information

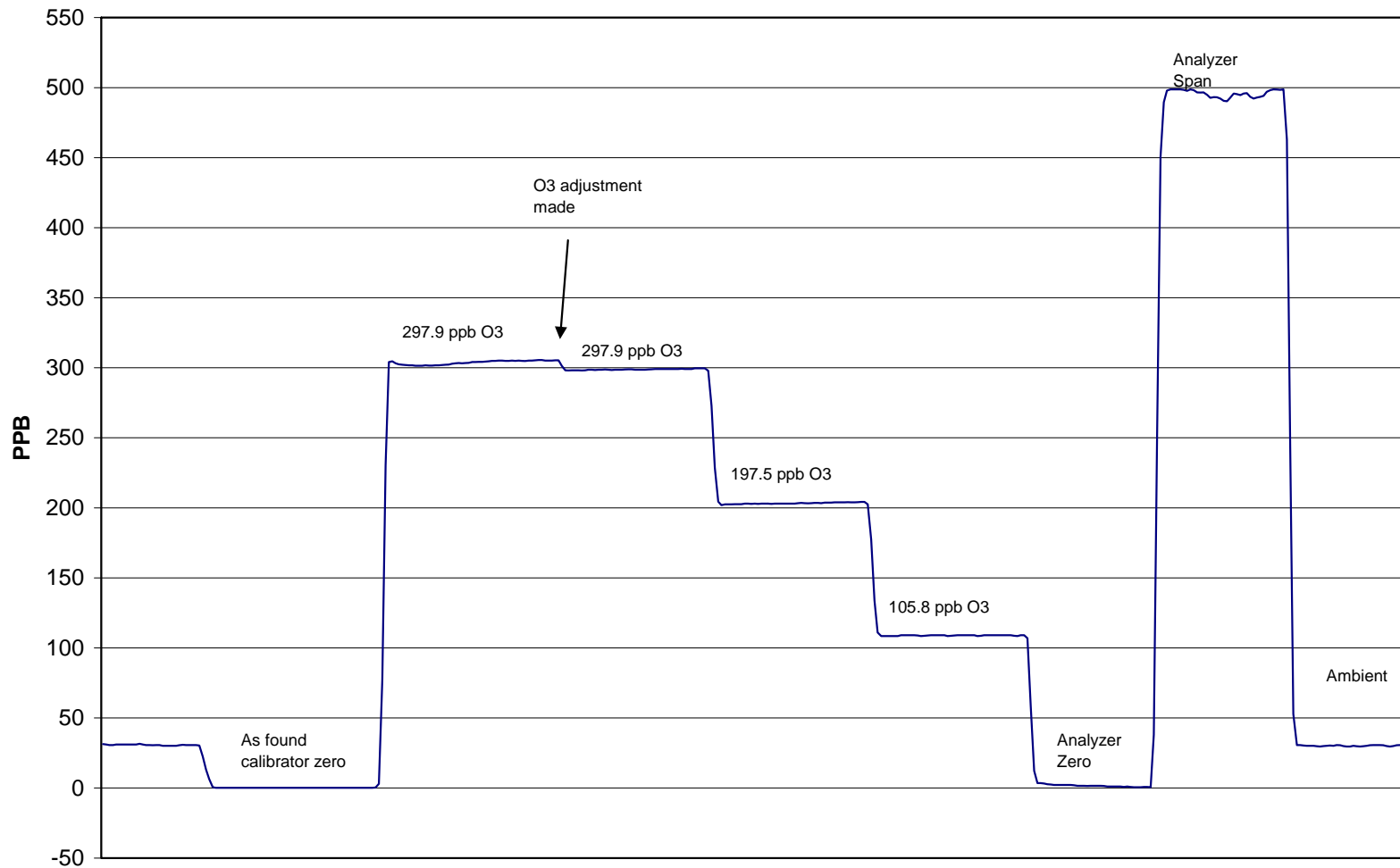
Calibration Date	February 8, 2008	Previous Calibration	January 11, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:45	End Time (MST)	12:45
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	NA		
297.9	298.7	0.9974	Correlation Coefficient	0.999669
197.5	202.9	0.9735		
105.8	108.9	0.9711	Slope	0.995362
			Intercept	-1.648440



Henry Pirker O3 Calibration



February 8, 2008

Calibration Report



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

Station Information

Calibration Date	February 4, 2008	Previous Calibration	January 14, 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)	13:30	End Time (MST)	17:45
Barometric Pressure	0.918 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	0.999851	Calculated slope	1.006998
Calculated intercept	-0.883368	Calculated intercept	-0.079184
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.049		1.035	
CO zero setting	-0.002		1.069	
Sample pressure	686.9	mm Hg	702.3	mm Hg
Sample Flow	1.118	LPM	1.151	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)
4987	0.00	0.00	0.00	N/A
4987	39.90	23.81	23.68	1.0054
4987	19.85	11.89	11.94	0.9965
4987	9.92	5.96	6.07	0.9819
4987	0.00	0.00	1.04	As Found Zero
4987	39.90	23.81	25.20	As Found Span
Average Correction Factor				0.9946

Calculated value of As Found Response: 23.267 ppm Percent Change of As Found: 2.3%

	before calibration		after calibration	
Auto zero	0.01	ppm	-0.06	ppm
Auto span	20.38	ppm	20.15	ppm

Notes: Adjusted Zero, Adjusted Span

Calibration Performed By: Conor Whiteley

Calibration Summary

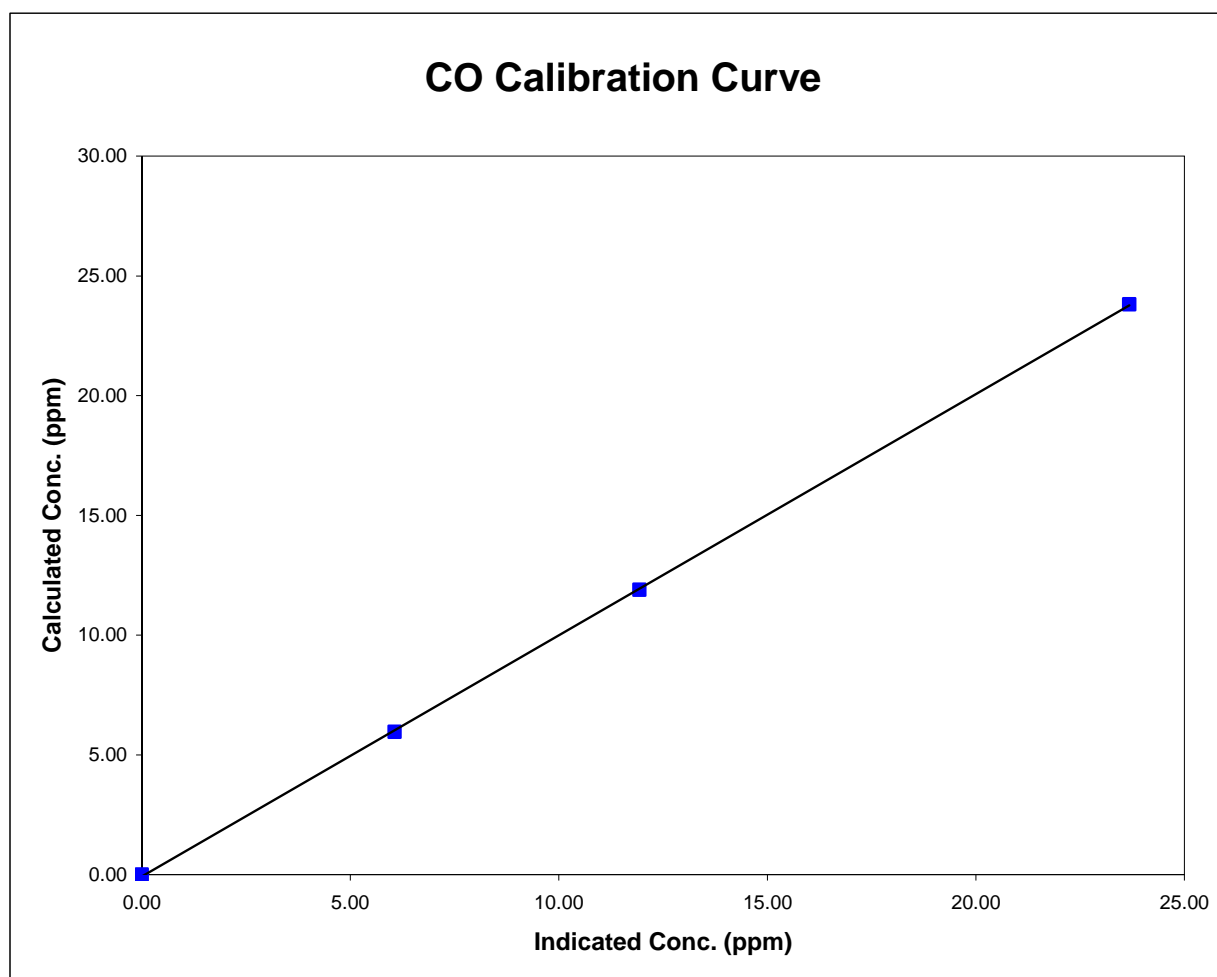
Parameter **CO**Air Monitoring Network **PASZA**

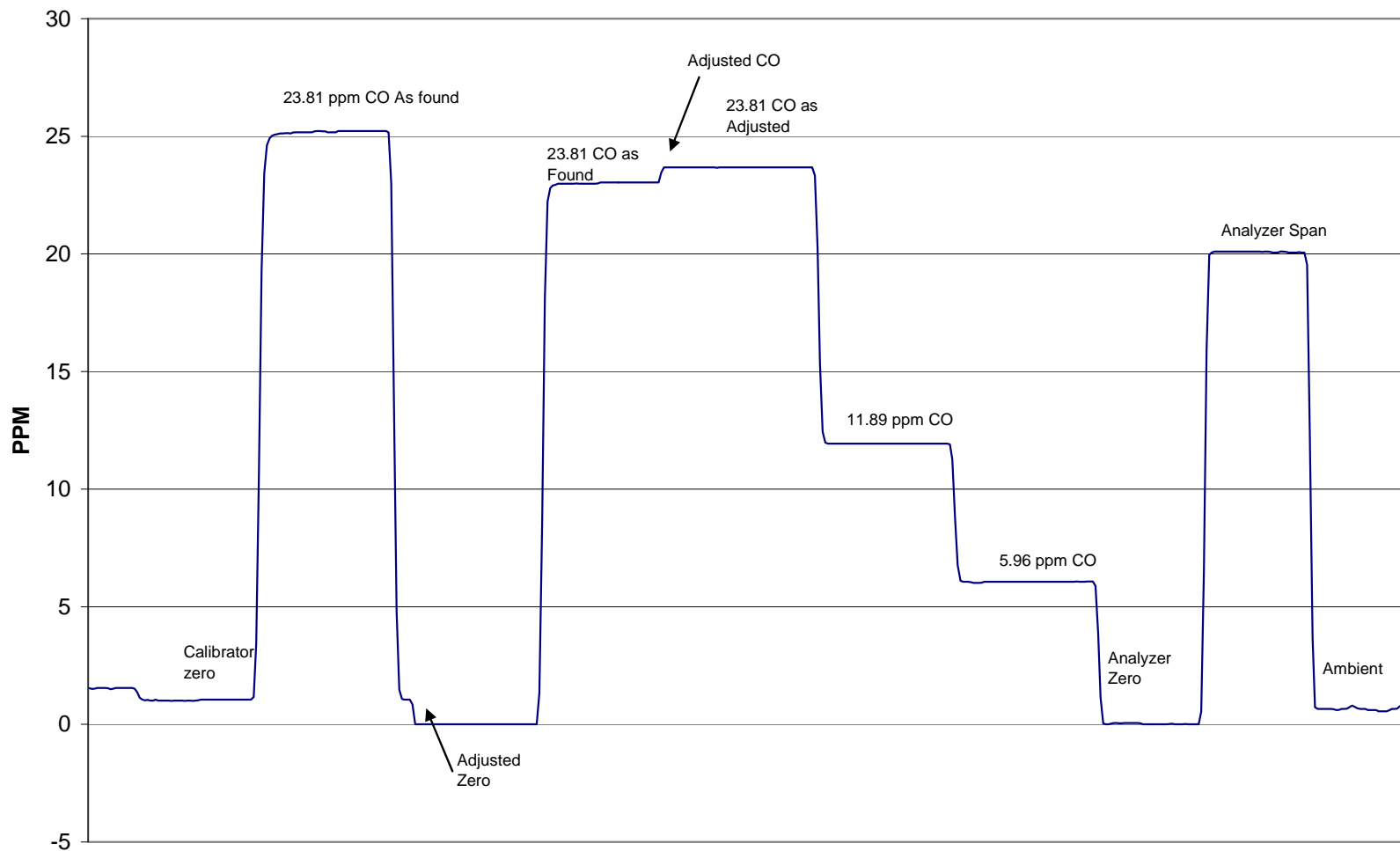
Station Information

Calibration Date	February 4, 2008	Previous Calibration	January 14, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:30	End Time (MST)	17:45
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	0.002	N/A		
23.812	23.683	1.0054	Correlation Coefficient	0.999951
11.894	11.936	0.9965		
5.956	6.065	0.9819	Slope	1.006998
			Intercept	-0.079184



Henry Pirker CO Calibration

February 4, 2008

Calibration Report



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

Station Information

Calibration Date	February 8, 2008	Previous Calibration	February 4, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:50	End Time (MST)	17:50
Barometric Pressure	0.929 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	1.006998	Calculated slope	1.006701
Calculated intercept	-0.079184	Calculated intercept	-0.170812
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.035		1.049	
CO zero setting	1.069		-0.002	
Sample pressure	702.3	mm Hg	671.2	mm Hg
Sample Flow	1.151	LPM	1.107	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)
4990	0.00	0.00	0.13	N/A
4990	39.82	23.75	23.75	1.0000
4991	19.90	11.91	12.00	0.9928
4990	9.92	5.95	6.13	0.9706
4987	0.00	0.00	0.13	As Found Zero
4987	39.90	23.81	23.75	As Found Span
Average Correction Factor				0.9878

Calculated value of As Found Response: 23.703 ppm Percent Change of As Found: 0.5%

	before calibration		after calibration	
Auto zero	-0.06	ppm	0.25	ppm
Auto span	20.15	ppm	20.12	ppm

Notes: Following up some concerns about CO span...

Calibration Performed By: Conor Whiteley

Calibration Summary

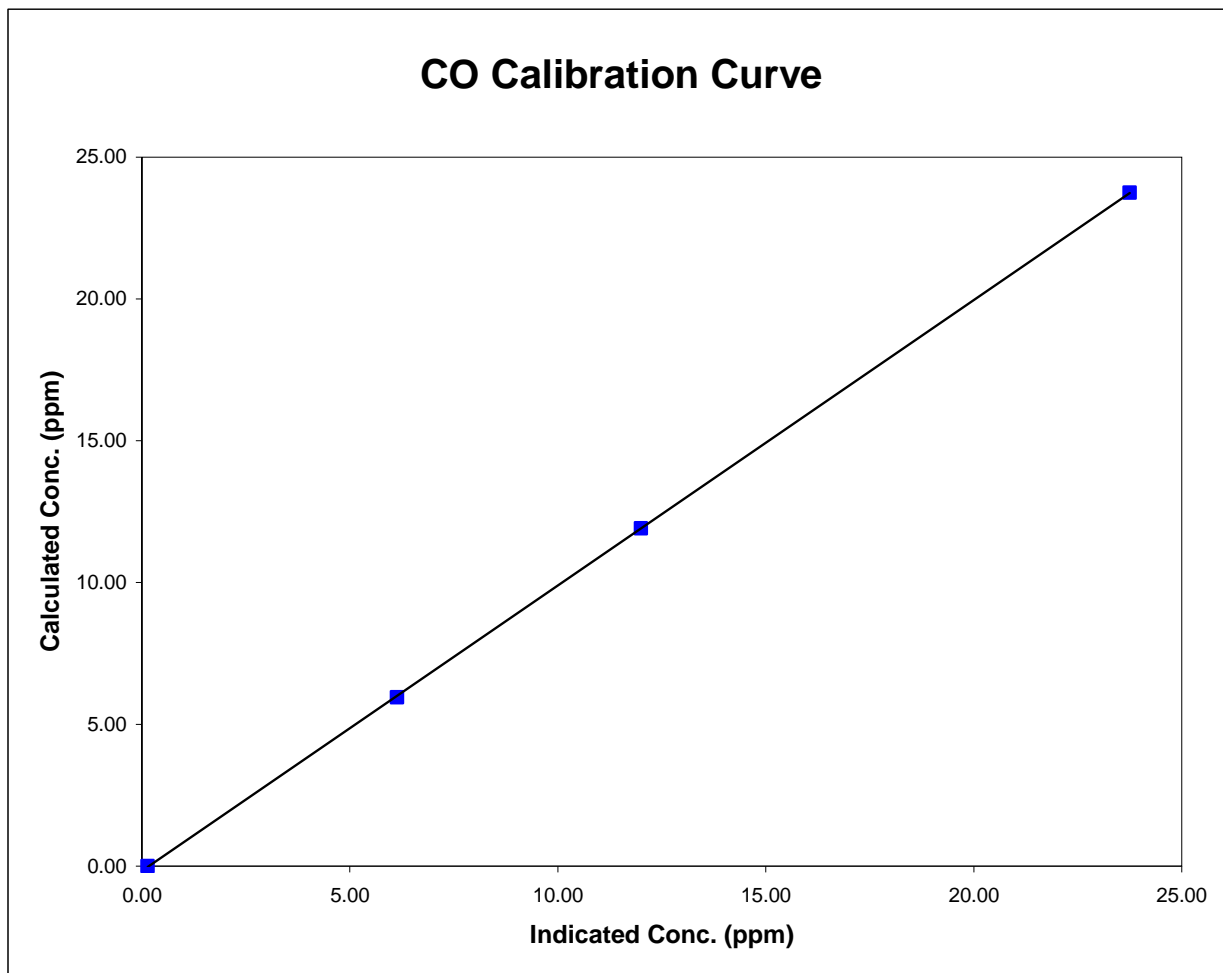
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

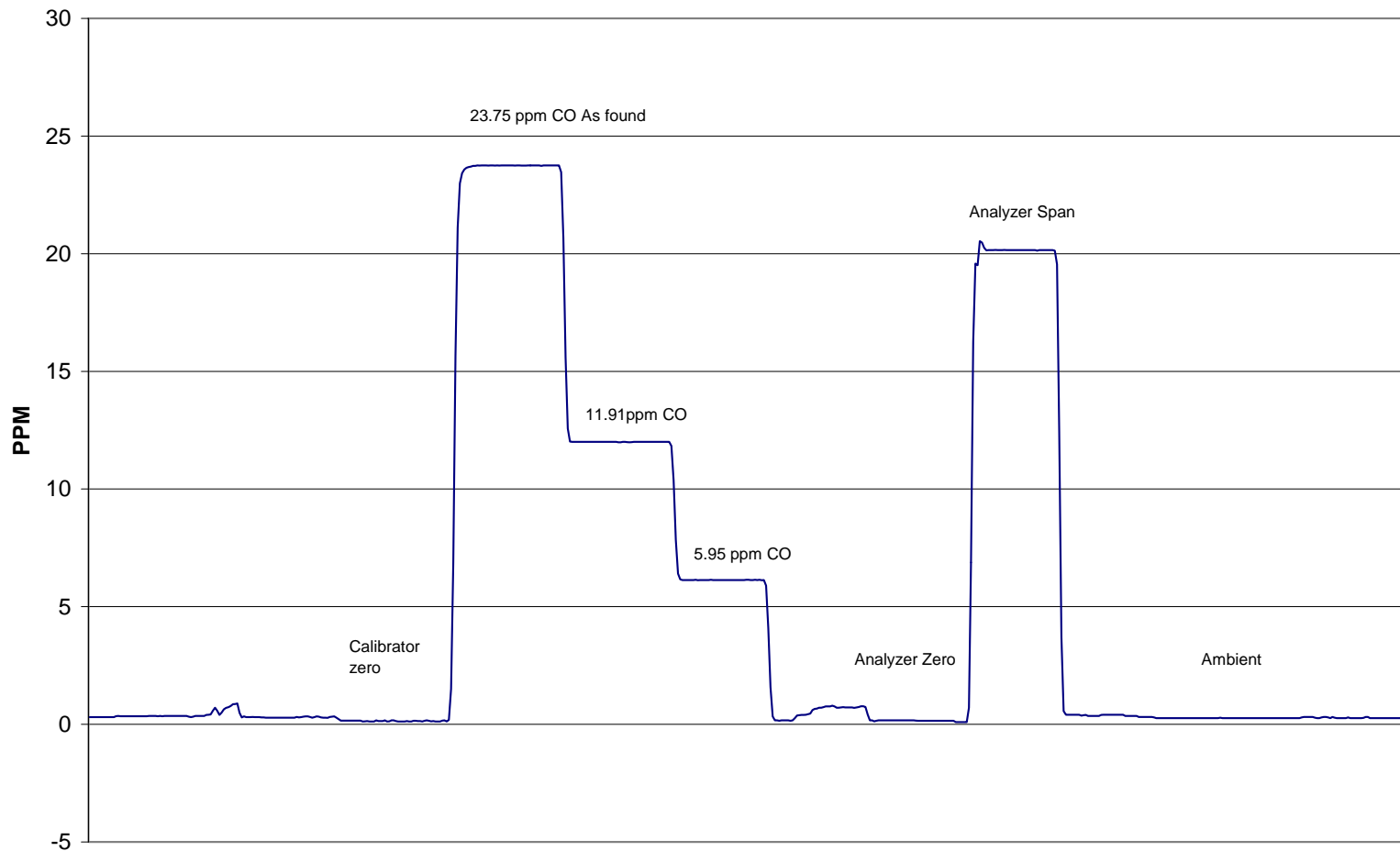
Calibration Date	February 8, 2008	Previous Calibration	February 4, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:50	End Time (MST)	17:50
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.134	N/A		
23.750	23.751	1.0000	Correlation Coefficient	0.999987
11.914	12.001	0.9928		
5.952	6.132	0.9706	Slope	1.006701
			Intercept	-0.170812



Henry Pirker CO Calibration



February 8, 2008

Calibration Report

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

Station Information

Calibration Date	February 5, 2008	Previous Calibration	January 14, 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)	13:00	End Time (MST)	17:30
Barometric Pressure	0.900 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	1.002926
Calculated intercept	0.575651	Calculated intercept	-0.026864
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.09	psi	6.07	psi
THC span counts	6894	capture	6921	capture
THC zero counts	1346	capture	1378	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	0.03	N/A
4990	69.74	20.98	20.96	1.0009
4990	29.85	9.05	9.01	1.0050
4990	9.92	3.02	3.06	0.9867
4990	0.00	0.00	-0.73	As Found Zero
4990	64.92	19.55	20.67	As Found Span
Average Correction Factor				0.9975

Calculated value of As Found Response: 21.764 ppm Percent Change of As Found: -11.3%

	before calibration		after calibration	
Auto zero	0.01	ppm	-0.01	ppm
Auto span	21.77	ppm	21.44	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



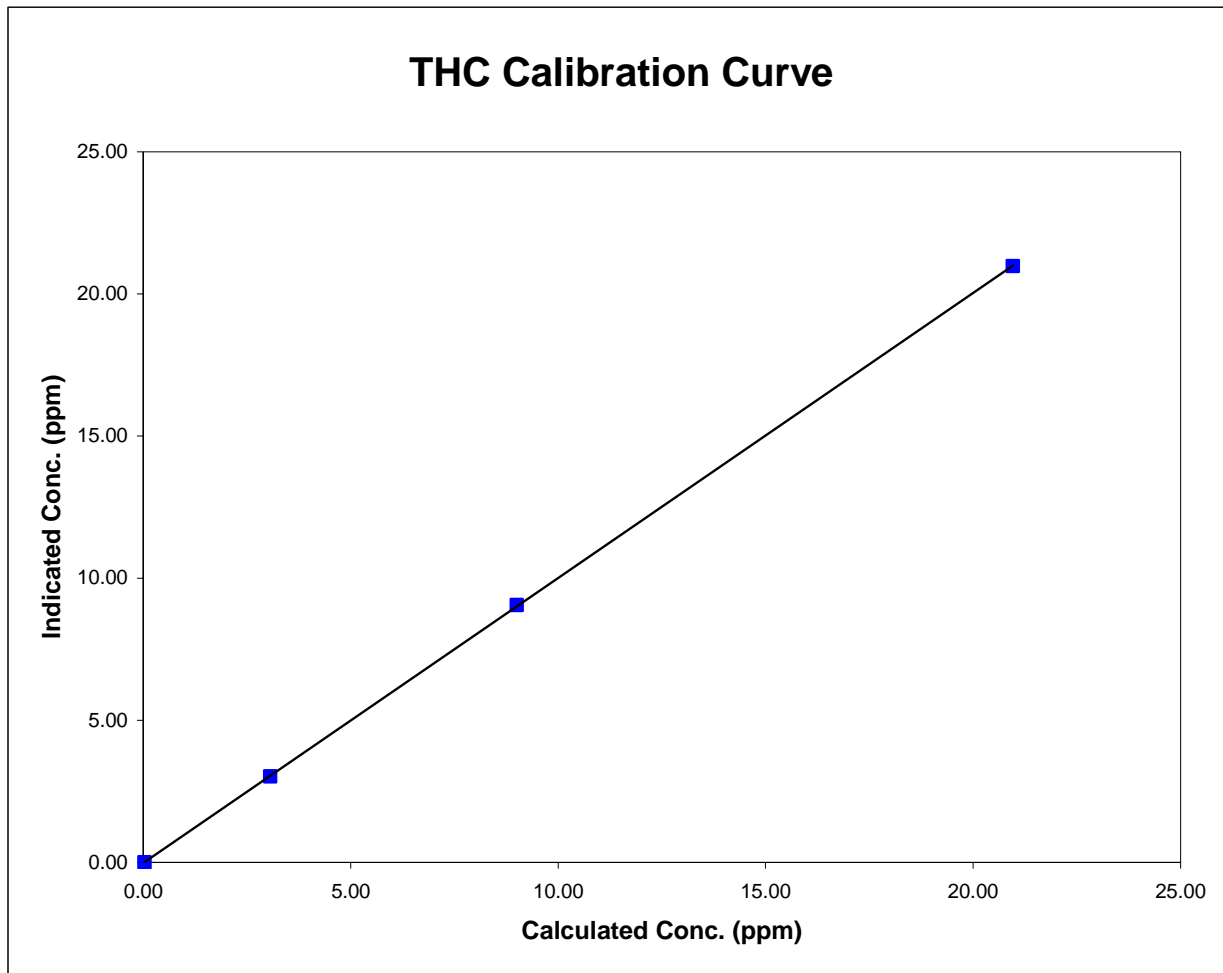
Parameter **THC**
 Air Monitoring Network **PASZA**

Station Information

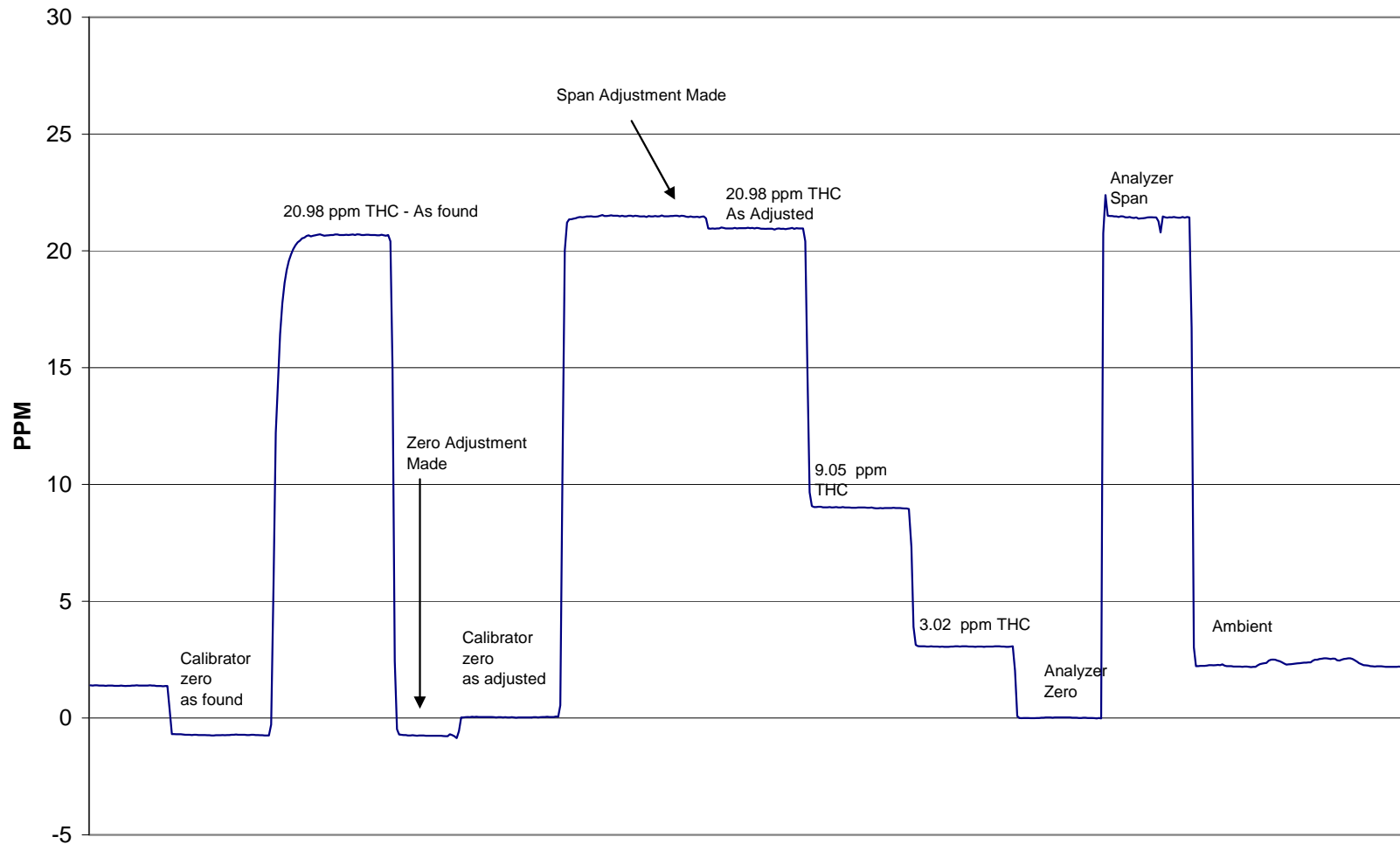
Calibration Date	February 5, 2008	Previous Calibration	January 14, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:00	End Time (MST)	17:30
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.034	N/A		
20.982	20.964	1.0009	Correlation Coefficient	0.999989
9.052	9.006	1.0050		
3.020	3.061	0.9867	Slope	1.002926
			Intercept	-0.026864



Henry Pirker THC Calibration



February 5, 2008

Calibration Report

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

Station Information

Calibration Date	February 1, 2008	Previous Calibration	January 31, 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)	15:10
Barometric Pressure	0.916 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
	<u>Before</u>		<u>After</u>
Calculated slope	0.985088	Calculated slope	0.980709
Calculated intercept	-0.568152	Calculated intercept	0.825693
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	17.2		19.7	
Pressure	649.2	mm Hg	659.2	mm Hg
Flow	455	ccm	459	ccm
Lamp Voltage	865	V	853	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)
4987	0.00	0.00	-0.65	N/A
4987	69.77	70.92	71.44	0.9927
4987	39.83	40.73	40.81	0.9981
4987	9.93	10.21	9.29	1.0996
4990	0.00	0.00	0.77	As Found Zero
4990	69.75	70.86	70.01	As Found Span
Average Correction Factor				1.0301

Calculated value of As Found Response: 67.6 ppb Percent Change of As Found: 4.5%

	before calibration		after calibration	
Auto zero	0.14	ppb	-0.90	ppb
Auto span	36.98	ppb	35.37	ppb

Notes: SO2 scrubber replaced, zero and span calibrated

Calibration Performed By: Conor Whiteley

Calibration Summary



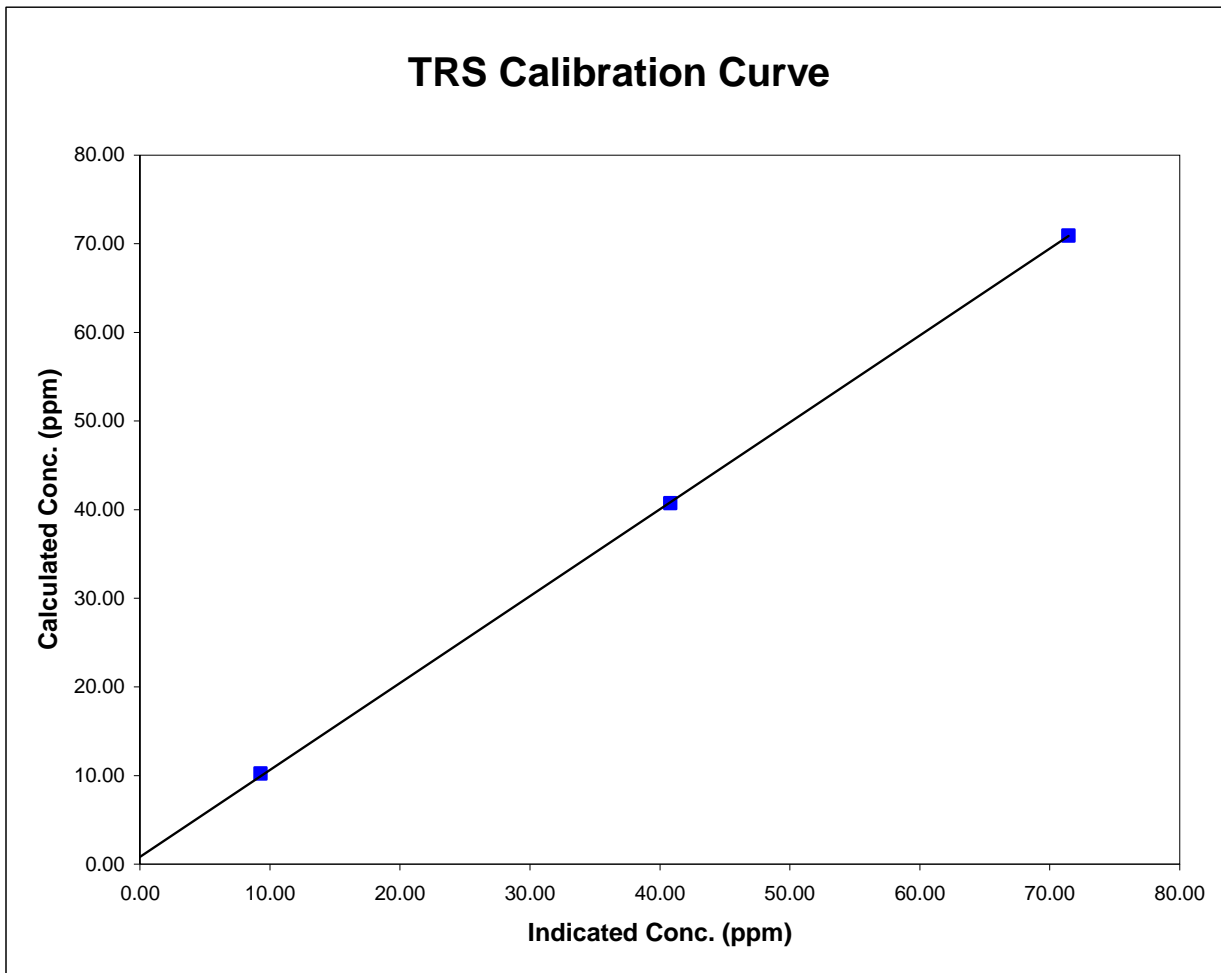
Parameter **TRS**
 Air Monitoring Network **PASZA**

Station Information

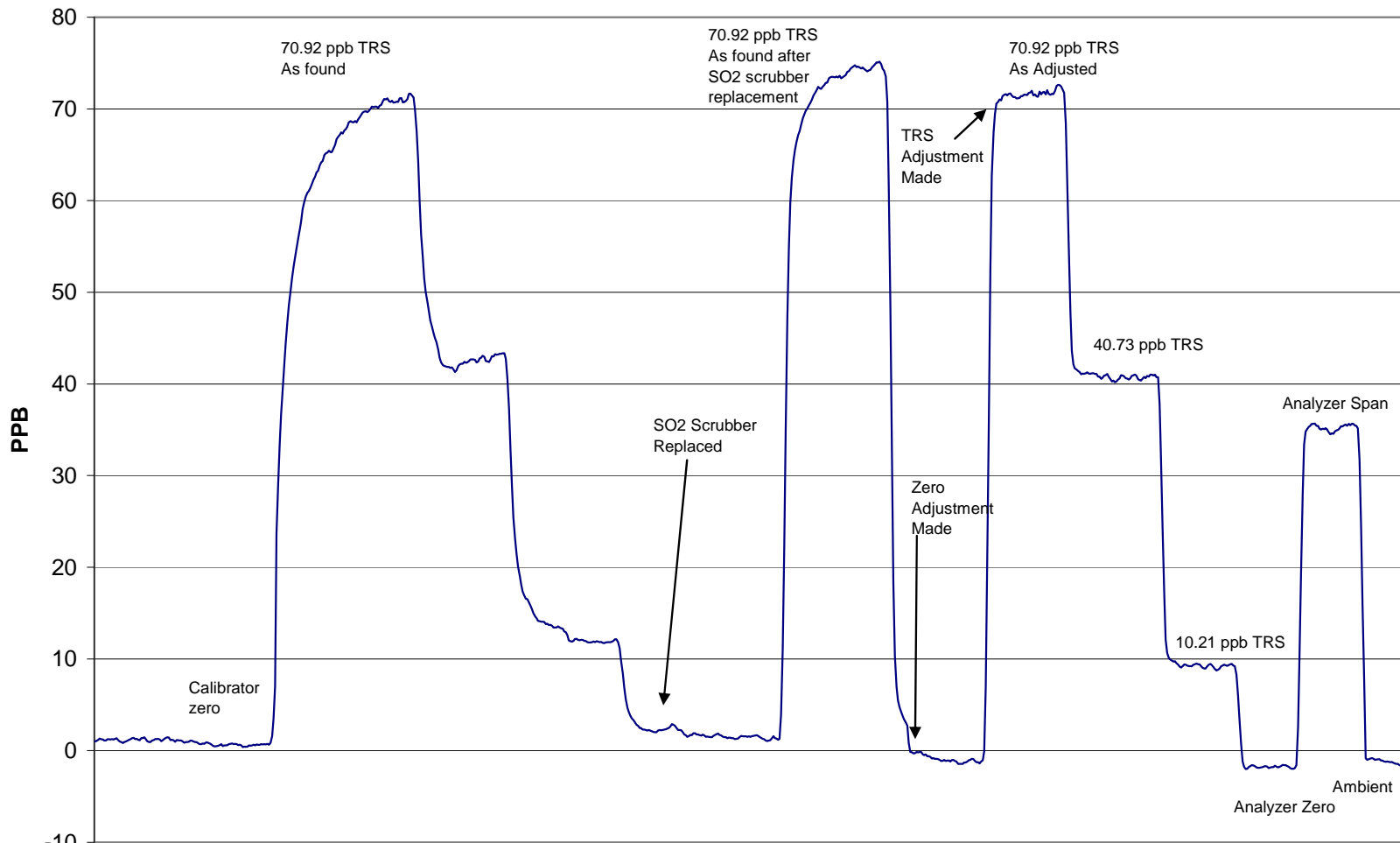
Calibration Date	February 1, 2008	Previous Calibration	January 31, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:30	End Time (MST)	15:10
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.648	N/A		
70.918	71.442	0.9927	Correlation Coefficient	0.999958
40.727	40.805	0.9981		
10.214	9.289	1.0996	Slope	0.980709
			Intercept	0.825693



Henry Pirker TRS Calibration



February 1, 2008

Calibration Report



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

Station Information

Calibration Date	February 14, 2008	Previous Calibration	January 15, 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)	11:50	End Time (MST)	14:45
Barometric Pressure	0.918 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	0.031205	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	1.010044	Calculated slope	1.010887
Calculated intercept	-1.778470	Calculated intercept	-2.282994
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.9		8.9	
coefficient	0.928		0.928	
Lamp Voltage	838	volts	821	volts
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	45	Deg C	44.99	Deg C
Pressure	671	mm Hg	676	mm Hg
Sample Flow	447	ccm	452	ccm
Lamp Intensity	88	%	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)
4990	0.0	0.00	1.1	N/A
4990	39.83	398.31	395.6	1.0069
4990	19.88	199.60	200.7	0.9946
4990	9.92	99.80	101.9	0.9798
4990	0.0	0.00	1.1	As Found Zero
4990	39.9	399.11	395.6	As Found Span
Average Correction Factor				0.9938

Calculated value of As Found Response: 396.623 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	-0.9	ppm	-1.2	ppm
Auto span	270.9	ppm	273.8	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

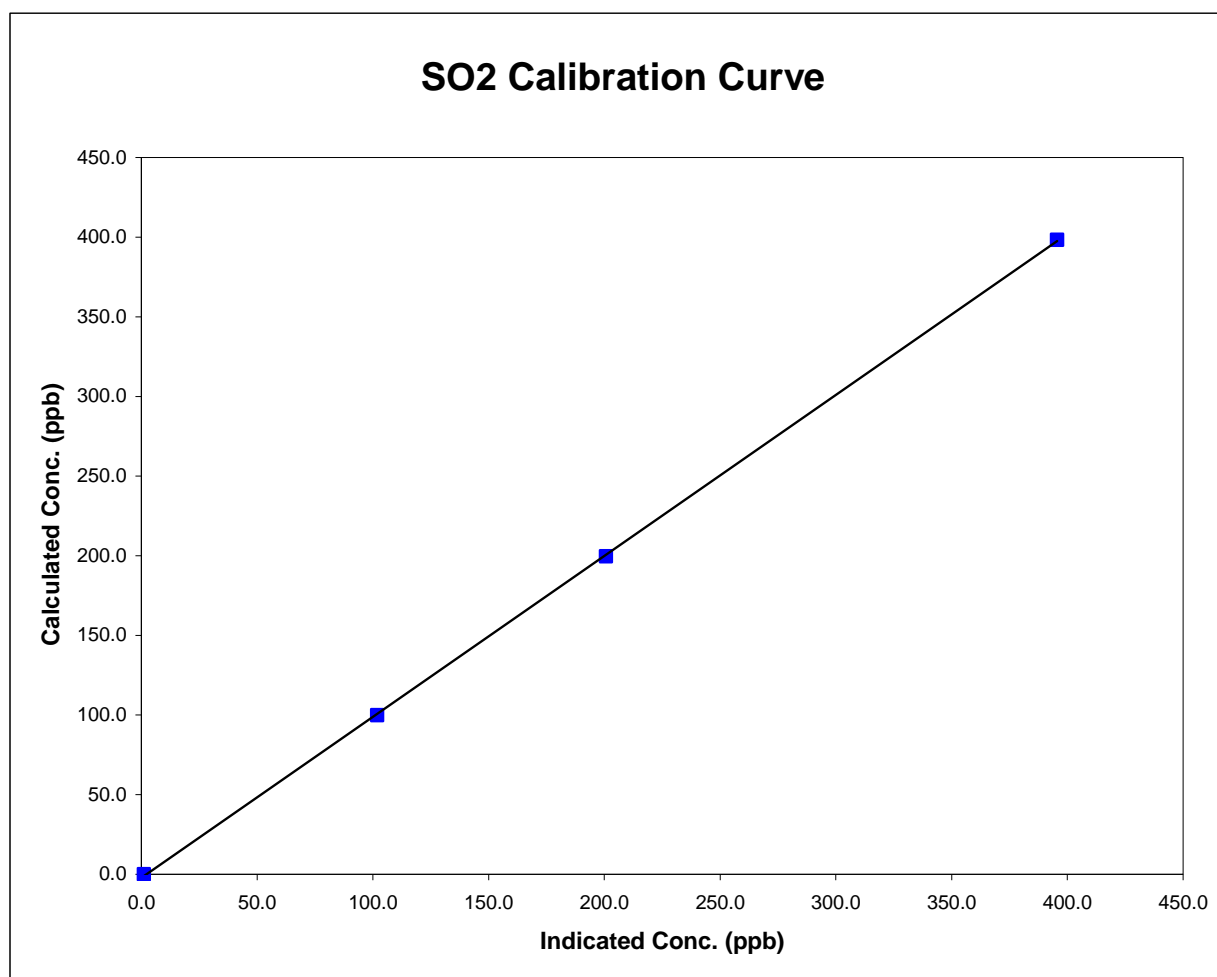
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

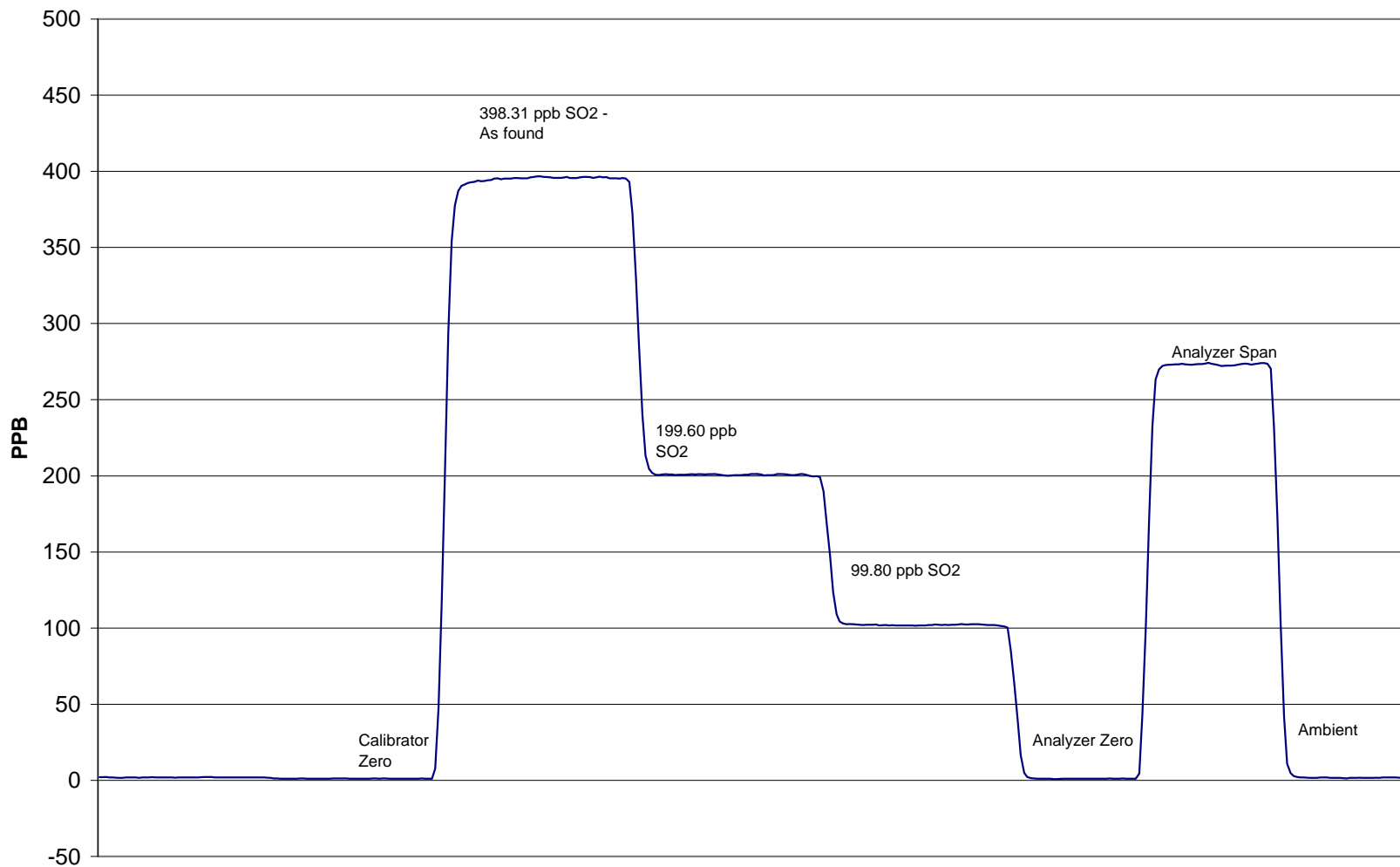
Calibration Date	February 14, 2008	Previous Calibration	January 15, 2008
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:50	End Time (MST)	14:45
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	N/A		
398.3	395.6	1.0069	Correlation Coefficient	0.999959
199.6	200.7	0.9946		
99.8	101.9	0.9798	Slope	1.010887
			Intercept	-2.282994



Evergreen Park SO2 Calibration



February 14, 2008

Calibration Report

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

Station Information

Calibration Date	February 14, 2007	Previous Calibration	January 23, 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)	9:50	End Time (MST)	12:45
Barometric Pressure	0.918 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	0.031205	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	0.987029	Calculated slope	0.983440
Calculated intercept	0.390227	Calculated intercept	1.050171
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	19.6	ppb	19.6	ppb
coefficient	1.05		1.05	
Lamp Voltage	794	volts	801	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	44.97	Deg C	45	Deg C
Pressure	636.1	mm Hg	640.7	mm Hg
Sample Flow	467	ccm	471	ccm
Lamp Intensity	44,726	mv	43,289	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	-1.2	N/A
4990	79.78	80.89	81.2	0.9967
4990	39.84	40.71	40.3	1.0090
4990	9.90	10.18	9.4	1.0818
4990	0.00	0.00	-1.2	As Found Zero
4990	80.00	81.10	81.2	As Found Span
Average Correction Factor				1.0292

Calculated value of As Found Response: 81.66 ppm Percent Change of As Found: -0.7%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.0	ppm
Auto span	69.3	ppm	71.1	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

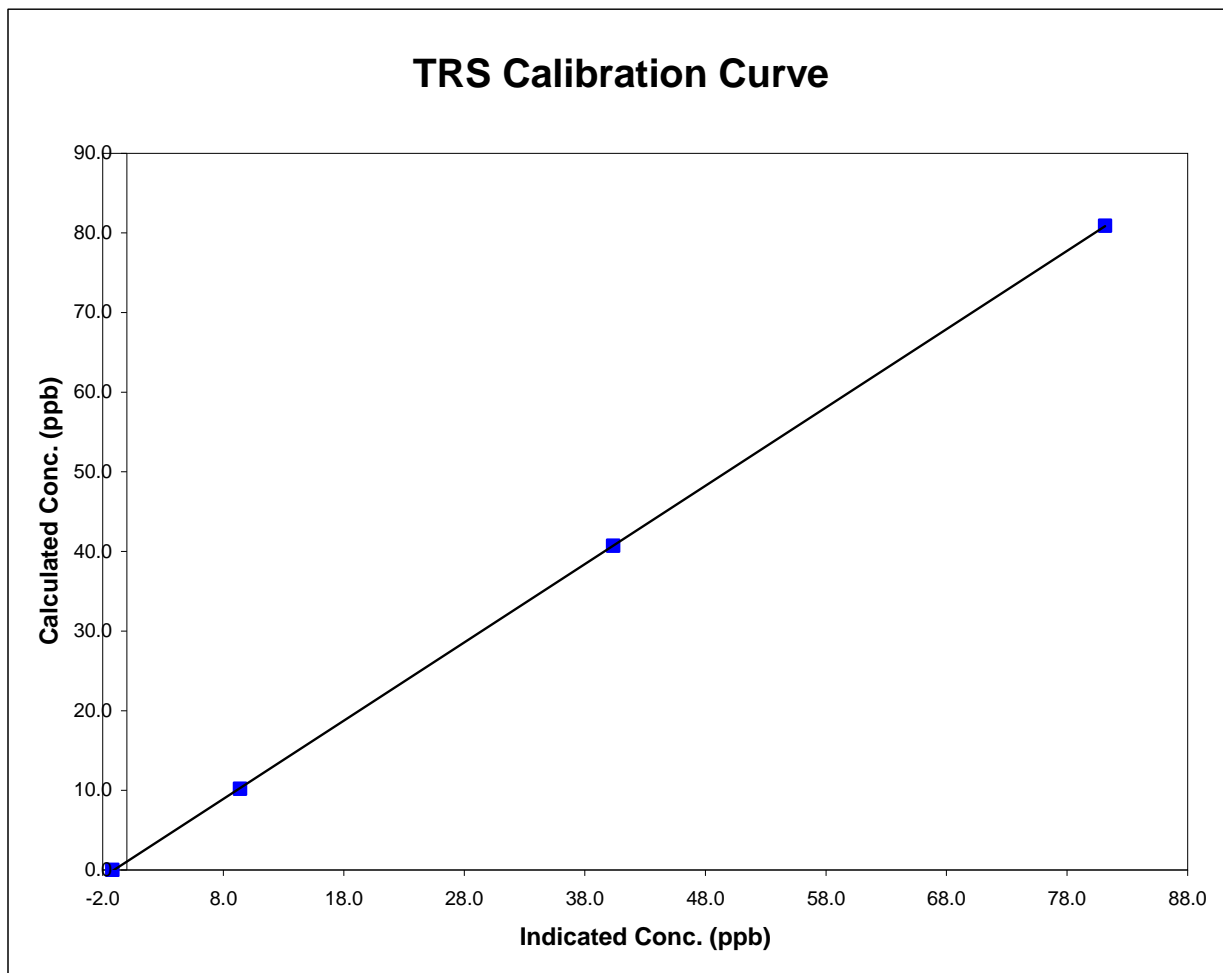
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

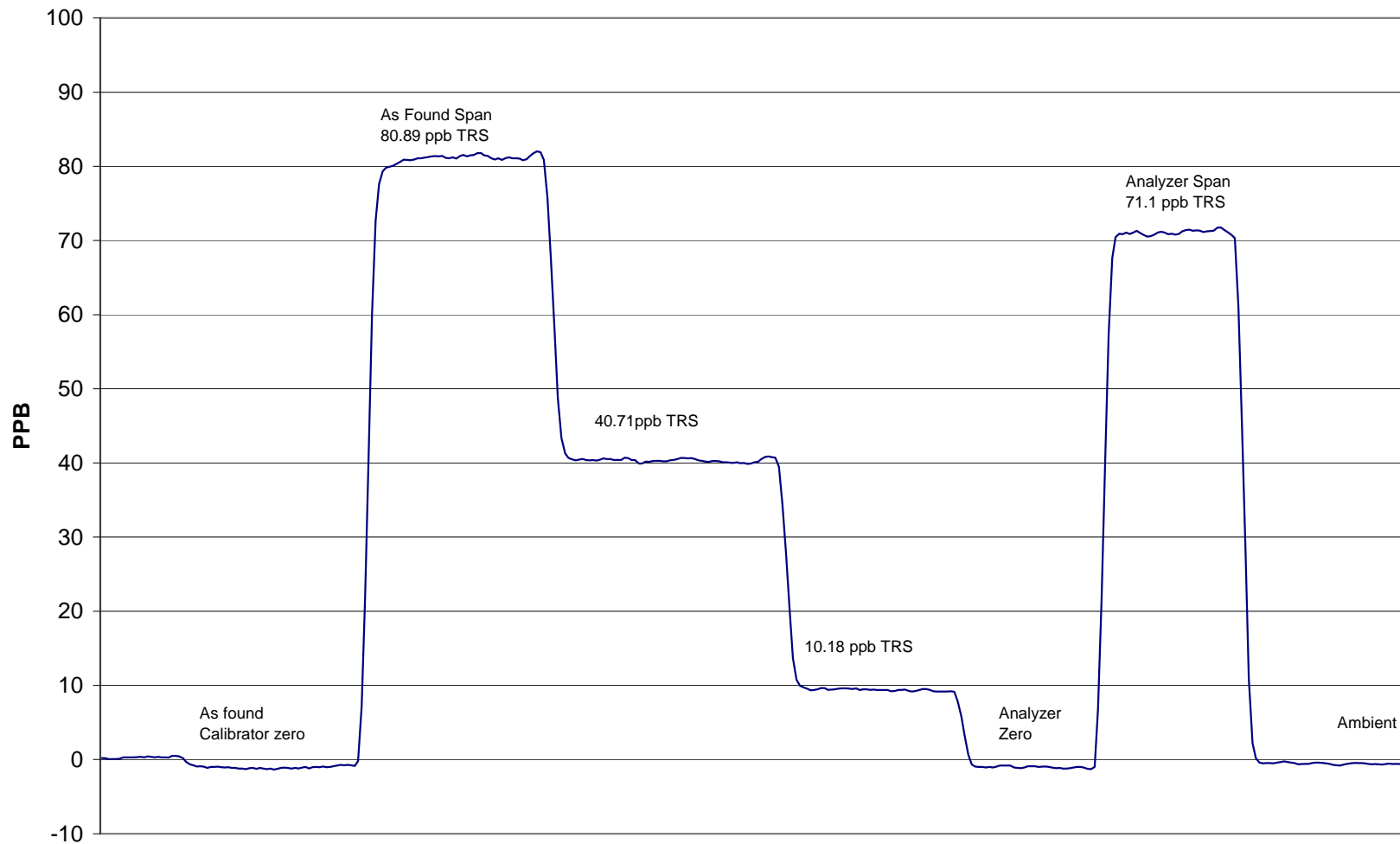
Calibration Date	February 14, 2007	Previous Calibration	January 23, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:50	End Time (MST)	12:45
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.2	N/A		
80.9	81.2	0.9967	Correlation Coefficient	0.999992
40.7	40.3	1.0090		
10.2	9.4	1.0818	Slope	0.983440
			Intercept	1.050171



Evergreen Park TRS Calibration



February 14, 2007

Calibration Report



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

Station Information

Calibration Date	February 13, 2008	Previous Calibration	January 17, 2008
Station Number	3	Station Location	Smokey Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input checked="" type="checkbox"/> Other:
Start Time (MST)	12:45	End Time (MST)	15:10
Barometric Pressure	0.924 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	0.031409	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	0.997867	Calculated slope	0.996052
Calculated intercept	-1.830752	Calculated intercept	-1.676585
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	6.7		6.6	
coefficient	0.745		0.745	
Lamp Voltage	936	volts	941	volts
Chamber Temp	45.2	Deg C	45.3	Deg C
Perm Gas Temp	44.97	Deg C	44.99	Deg C
Pressure	677.7	mm Hg	673.2	mm Hg
Sample Flow	451	ccm	447	ccm
Lamp Intensity	88	%	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	0.3	N/A
4988	39.84	398.57	401.0	0.9938
4988	19.90	199.88	203.3	0.9831
4988	9.93	99.94	103.2	0.9684
4988	0.0	0.00	0.3	As Found Zero
4988	39.92	399.37	401.0	As Found Span
Average Correction Factor				0.9818

Calculated value of As Found Response: 398.028 ppm Percent Change of As Found: 0.3%

	before calibration		after calibration	
Auto zero	-1.6	ppm	-1.4	ppm
Auto span	309.4	ppm	310.2	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

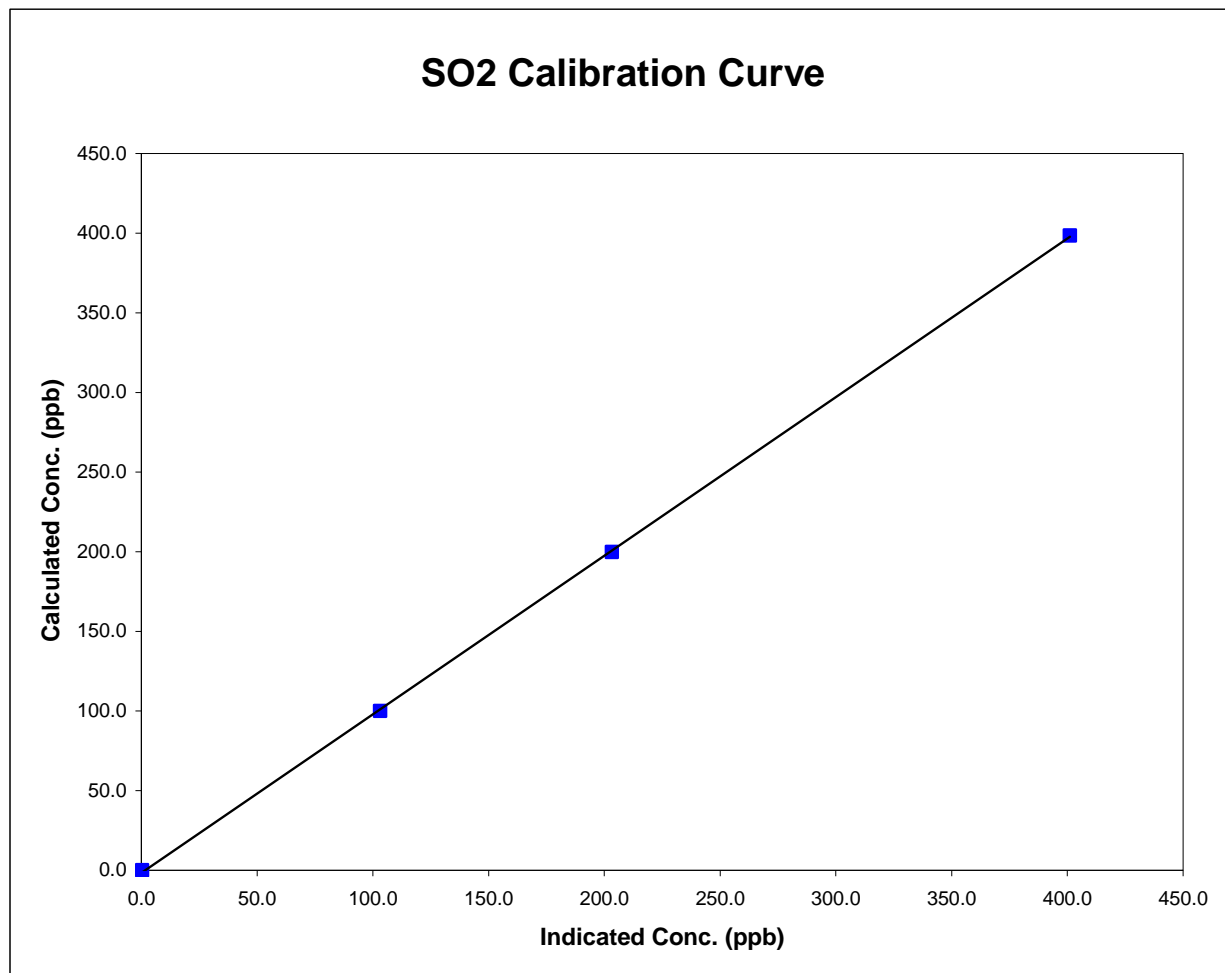
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

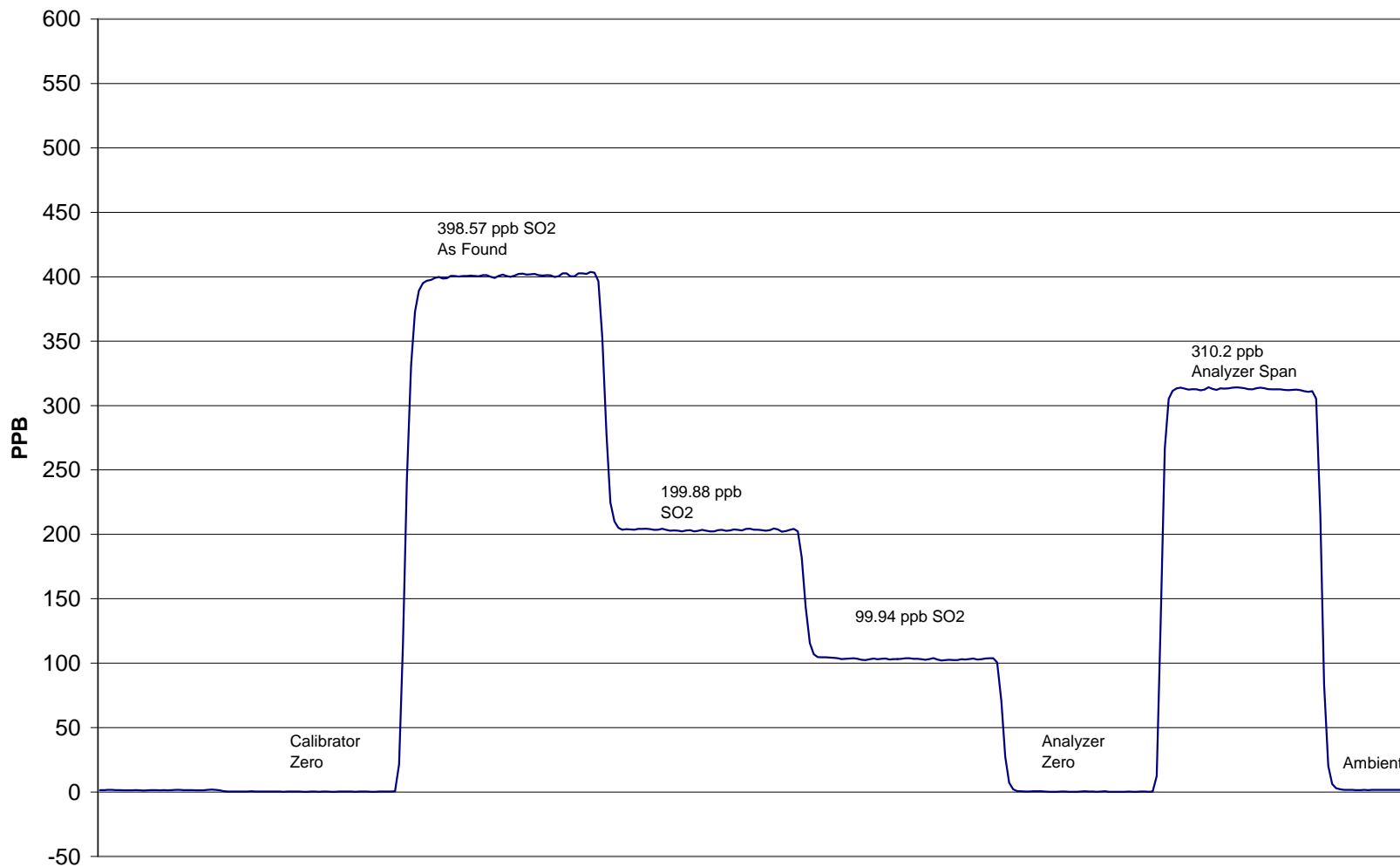
Calibration Date	February 13, 2008	Previous Calibration	January 17, 2008
Station Number	3	Station Location	Smokey Heights
Start Time (MST)	12:45	End Time (MST)	15:10
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
398.6	401.0	0.9938	Correlation Coefficient	0.999945
199.9	203.3	0.9831		
99.9	103.2	0.9684	Slope	0.996052
			Intercept	-1.676585



Smoky Heights SO2 Calibration



February 13, 2008

Calibration Report

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

Station Information

Calibration Date	February 13, 2008	Previous Calibration	January 17, 2008
Station Number	3	Station Location	Smokey Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:50	End Time (MST)	13:35
Barometric Pressure	0.924 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	0.031409	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	1.017460	Calculated slope	1.017339
Calculated intercept	-0.832947	Calculated intercept	-0.653226
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.5	ppb	11.6	ppb
coefficient	1.006		1.006	
Lamp Voltage	775	volts	776	volts
Chamber Temp	43.8	Deg C	44	Deg C
Perm Gas Temp	45.02	Deg C	45	Deg C
Pressure	484	mm Hg	477	mm Hg
Sample Flow	744	ccm	742	ccm
Lamp Intensity	32,355	mv	32,285	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)
4988	0.0	0.00	0.8	N/A
4988	79.81	80.95	80.3	1.0079
4988	39.83	40.72	40.5	1.0061
4988	9.93	10.21	10.6	0.9594
4988	0.0	0.00	0.8	As Found Zero
4988	79.81	80.95	80.3	As Found Span
Average Correction Factor				0.9911

Calculated value of As Found Response: 80.10 ppm Percent Change of As Found: 1.1%

	before calibration		after calibration	
Auto zero	-0.1	ppm	0.2	ppm
Auto span	42.4	ppm	43.0	ppm

Notes: No Adjustments Made

Calibration Performed By: Conor Whiteley

Calibration Summary

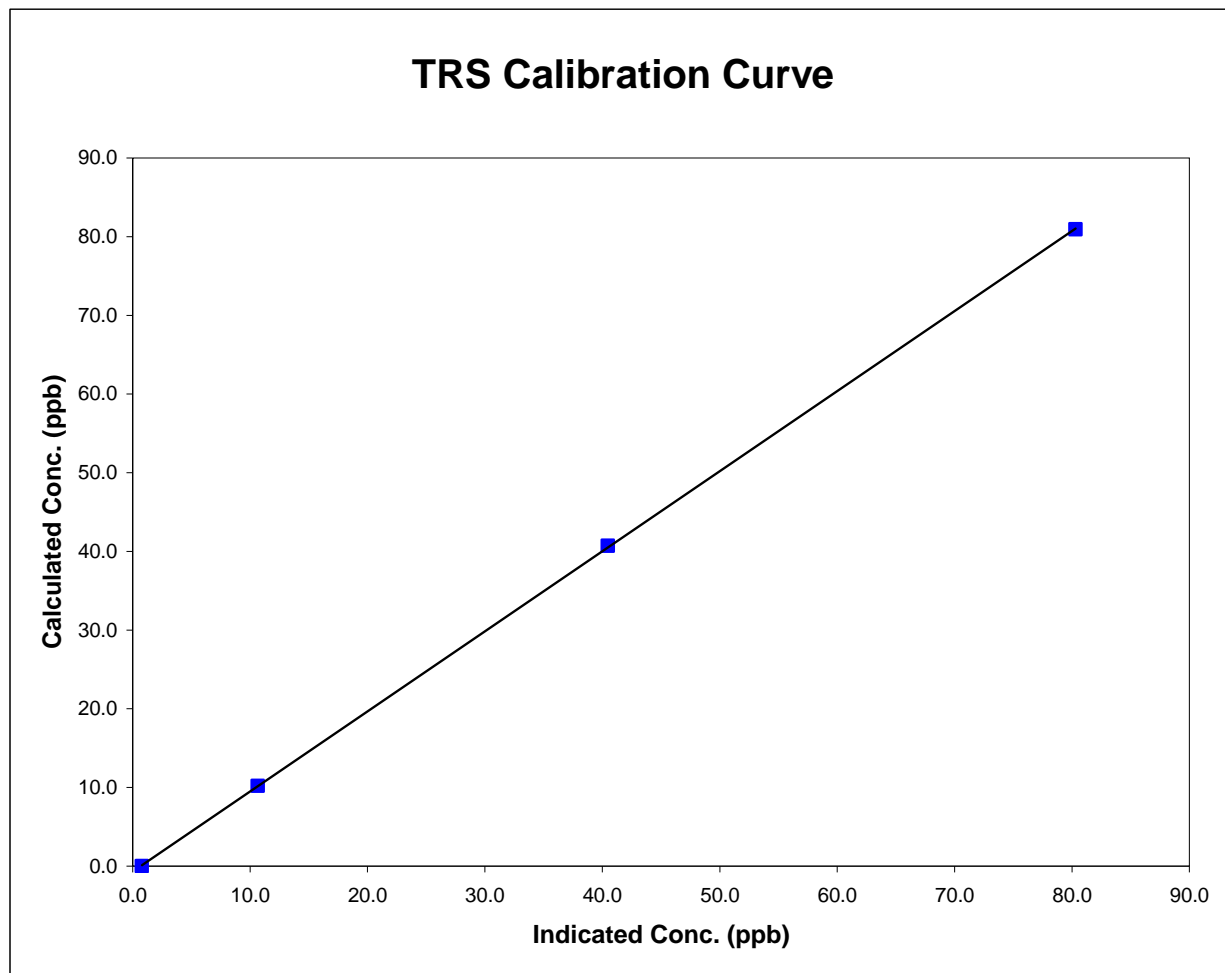
Parameter **TRS**Air Monitoring Network **PASZA**

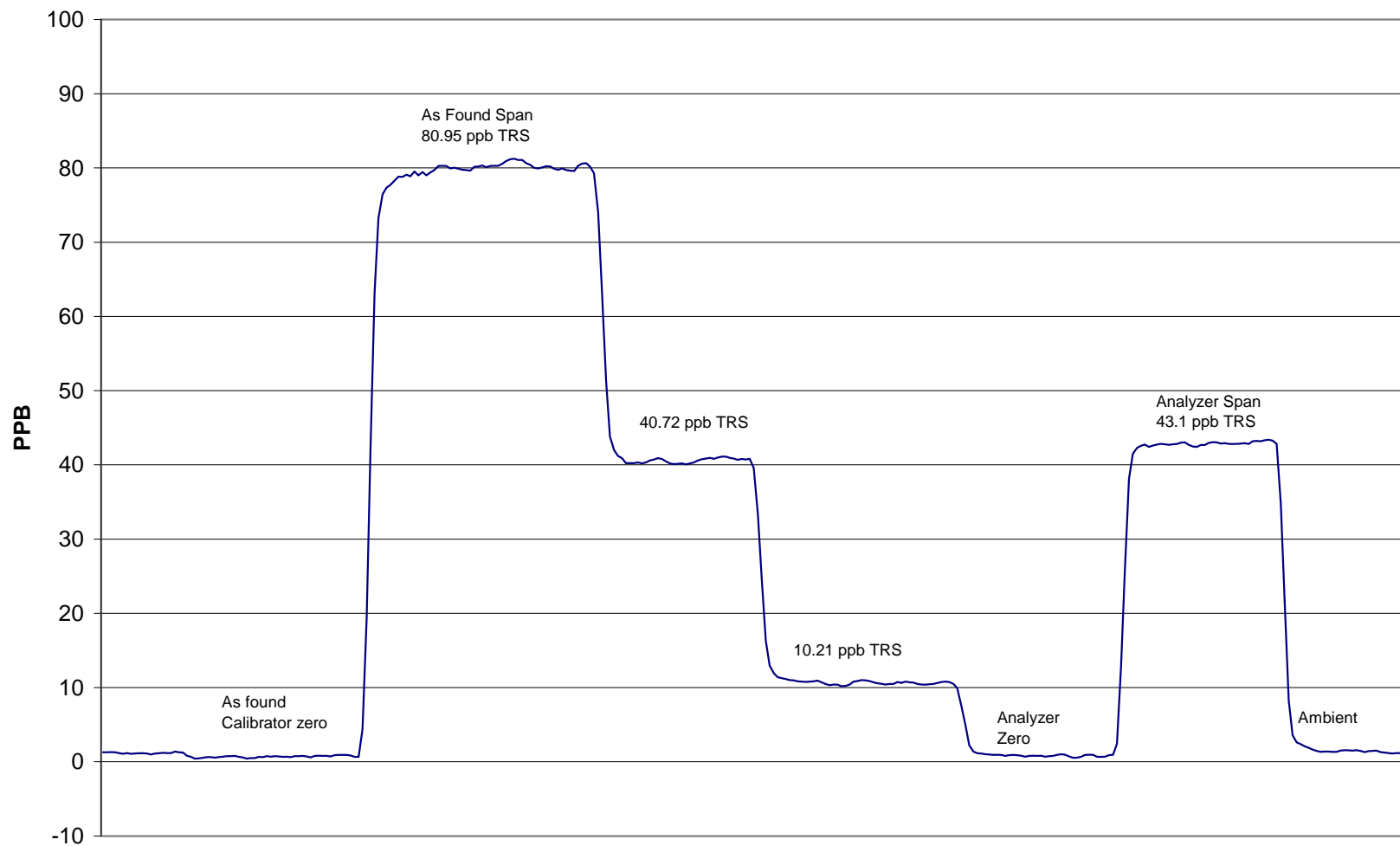
Station Information

Calibration Date	February 13, 2008	Previous Calibration	January 17, 2008
Station Number	3	Station Location	Smokey Heights
Start Time (MST)	10:50	End Time (MST)	13:35
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	80.3	1.0079	Correlation Coefficient	0.999983
40.7	40.5	1.0061		
10.2	10.6	0.9594	Slope	1.017339
			Intercept	-0.653226



Smoky Heights TRS Calibration**February 13, 2008**

Calibration Report

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

Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 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)	11:20	End Time (MST)	14:30
Barometric Pressure	0.905 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
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.965142	Calculated slope	0.998810
Calculated intercept	0.055132	Calculated intercept	-0.197673
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.86		2.86	
Coefficient	1.03		1.03	
PMT	-812	V	-812	V
UV Lamp Voltage	1011	V	1011	V
Chamber Temp	45	Deg C	45	Deg C
Pressure	645.5	mm Hg	645.5	mm Hg
Sample Flow	0.453	LPM	0.453	LPM
Lamp Intesity	86%	%	86%	%

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	-0.1	N/A
4990	39.83	79.7	79.8	0.9982
4990	19.91	40.0	40.4	0.9897
4990	9.92	20.0	20.4	0.9763
4990	0.00	0.0	-0.1	As found zero
4990	39.86	79.7	82.3	As found span
Average Correction Factor				0.9881

Calculated value of As Found Response: 79.564 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	-0.2	ppm	-0.3	ppm
Auto span	56.5	ppm	54.3	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



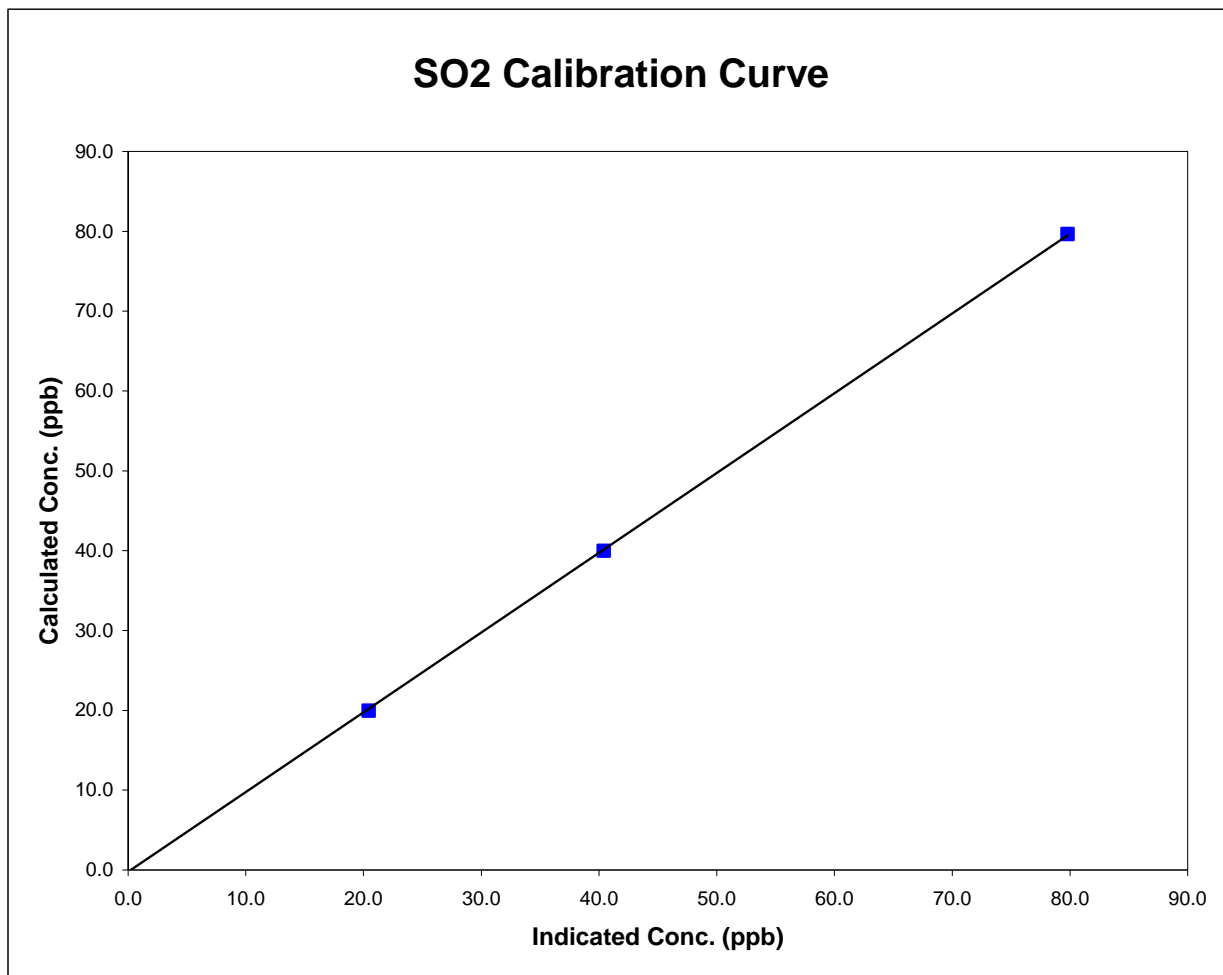
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

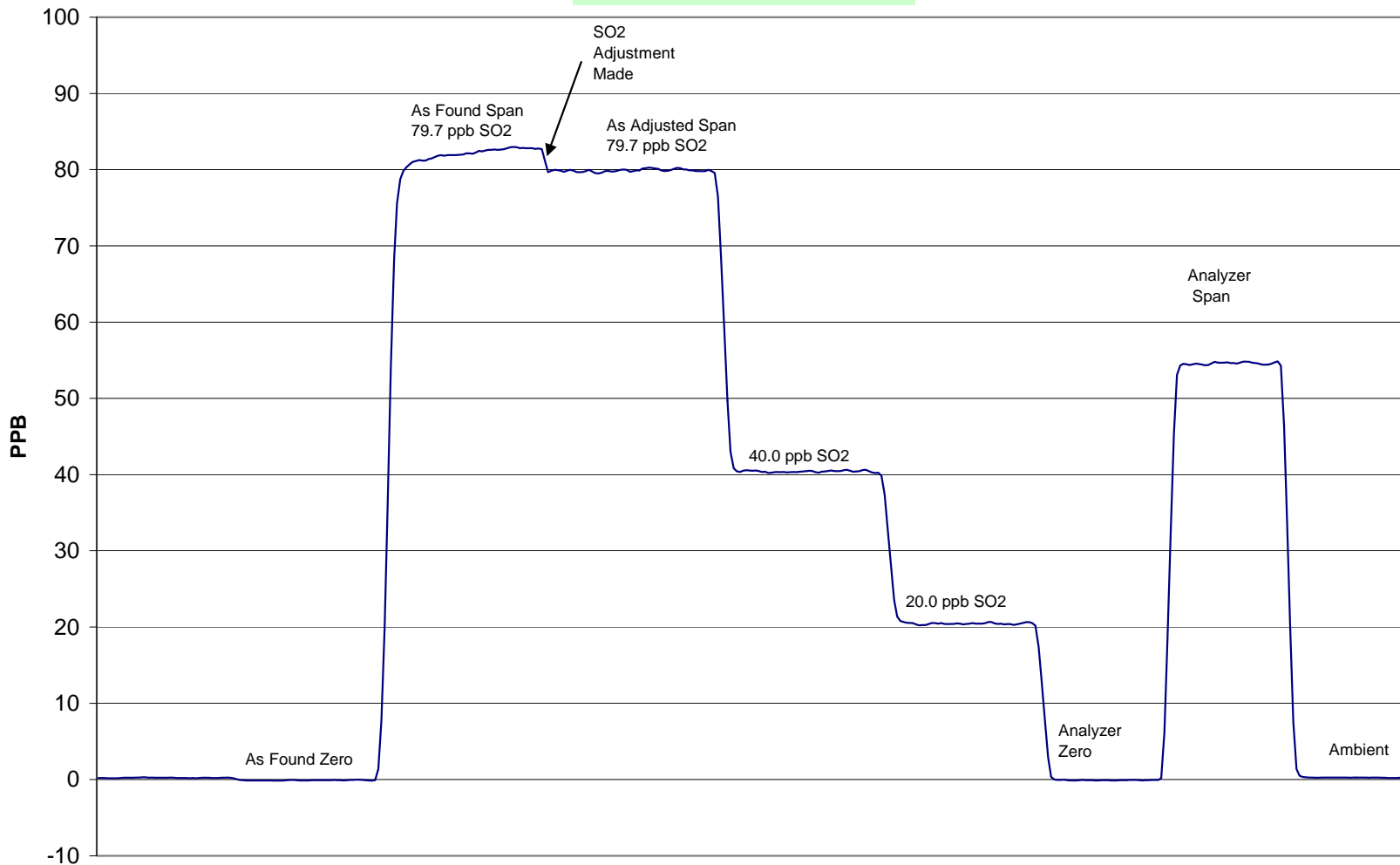
Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:20	End Time (MST)	14:30
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
79.7	79.8	0.9982	Correlation Coefficient	0.999943
40.0	40.4	0.9897		
20.0	20.4	0.9763	Slope	0.998810
			Intercept	-0.197673



Beaverlodge SO2 Calibration



February 11, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	11:20:00	End Time (MST)	16:15:00
Barometric Pressure	0.905 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
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Parameter		NO ₂	NO _x	NO
Before	Data Slope	0.985341	0.981955	0.974864
	Data Offset	1.100655	-0.782428	-0.675589
After	Data Slope	1.006341	1.004298	0.999165
	Data Offset	0.780289	-1.051877	-0.951818
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
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Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO background	1.3	ppb	1.3	mV
NO _x background	1.3	ppb	1.3	mV
NO coefficient	1.061		1.061	
NO _x coefficient	0.999		0.999	
PMT Voltage	-636	V	-636	V
Chamber Temp	49.2	Deg C	49.2	Deg C
Cooler Temp	-2.1	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	0.773	LPM	0.773	LPM
Ozonator Flow	0.083	LPM	0.083	LPM
Pressure	166.2	mm Hg	166.2	mm Hg

Notes:

Calibration Report

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



Station Information

Calibration Date: **February 11, 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	39.83	397.5	396.7	0.8	396.3	397.4	-1.5	1.0030	0.9984
2	4990	19.91	199.5	199.1	0.4	200.0	200.8	-0.9	0.9977	0.9916
3	4990	9.92	99.6	99.4	0.2	101.8	101.8	-0.6	0.9787	0.9767
AFZ	4990	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.0000	0.0000
AFS	4990	39.92	398.4	397.6	0.8	406.3	407.0	-1.3	0.9806	0.9769
Average Correction Factor									0.9931	0.9889

As Found Concentrations: NO_x= 405.7 NO= 406.7 As Found Percent Change NO_x= 1.8% NO= 2.3%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 ccm

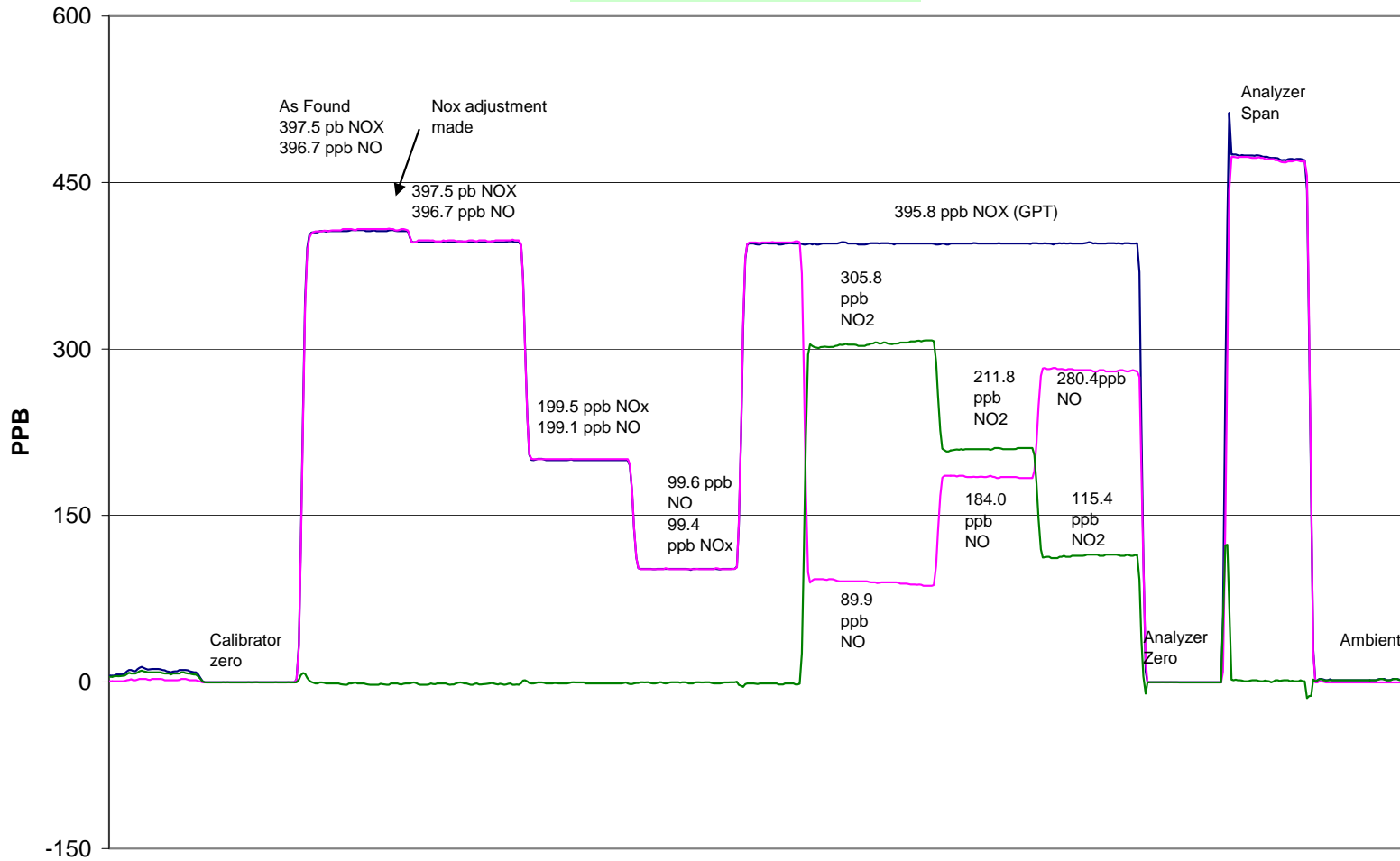
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	395.8	394.7	1.1	394.8	395.9	-1.5	1.0024	0.9968	N/A	N/A
300	395.8	89.9	305.8	395.0	90.9	303.4	1.0018	0.9887	1.0080	99.2%
200	395.8	184.0	211.8	395.1	185.1	209.7	1.0016	0.9940	1.0101	99.0%
100	395.8	280.4	115.4	395.1	281.5	113.2	1.0016	0.9958	1.0199	98.0%
Average Correction Factor							1.0016	0.9928	1.0127	98.8%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.0	0.8	-1.0	ppb	-1.3	0.5	-1.3	ppb
Auto span	477.6	-0.3	475.1	ppb	474.1	2.0	469.9	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



February 11, 2008

Calibration Summary

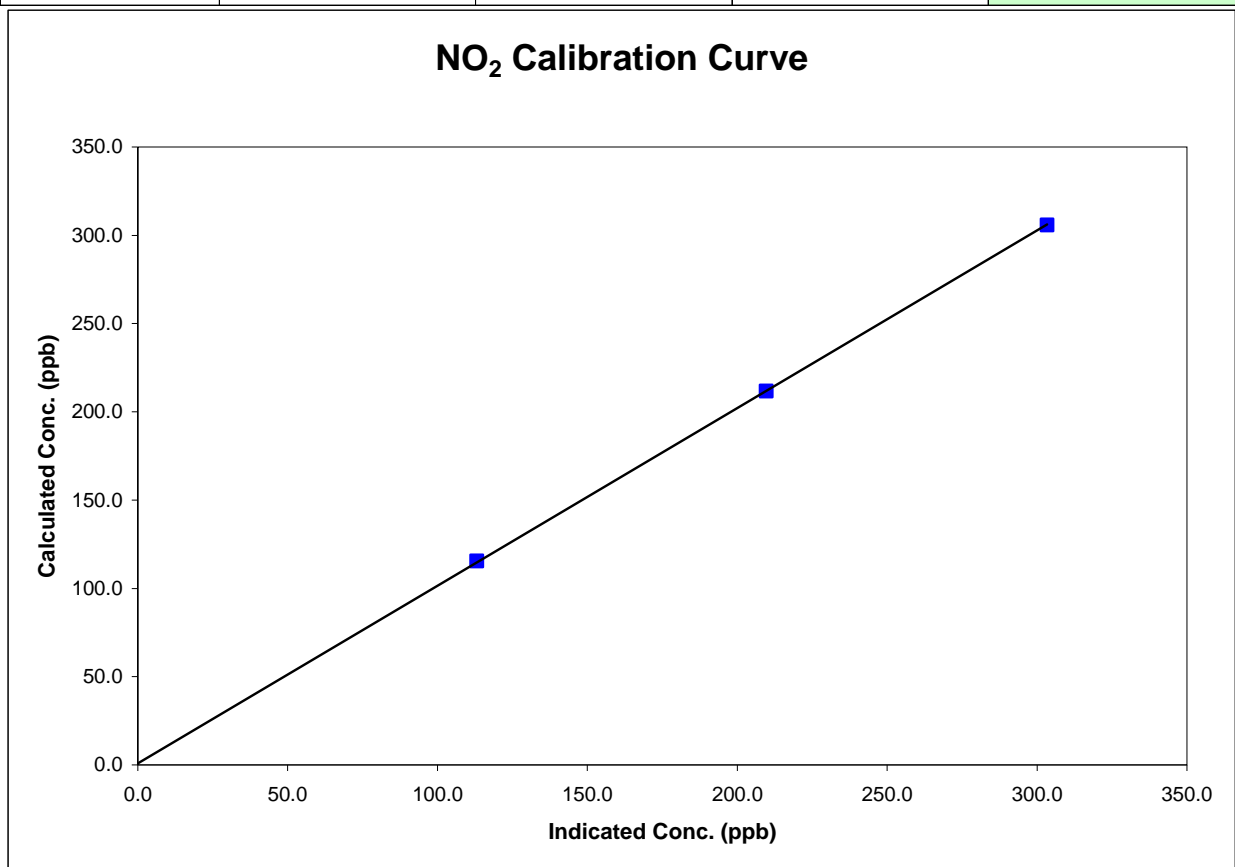
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:20	End Time (MST)	16:15
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	Correlation Coefficient	0.999983
305.8	303.4	1.0080		
211.8	209.7	1.0101		
115.4	113.2	1.0199		
			Slope	1.006341
			Intercept	0.780289



Calibration Summary

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

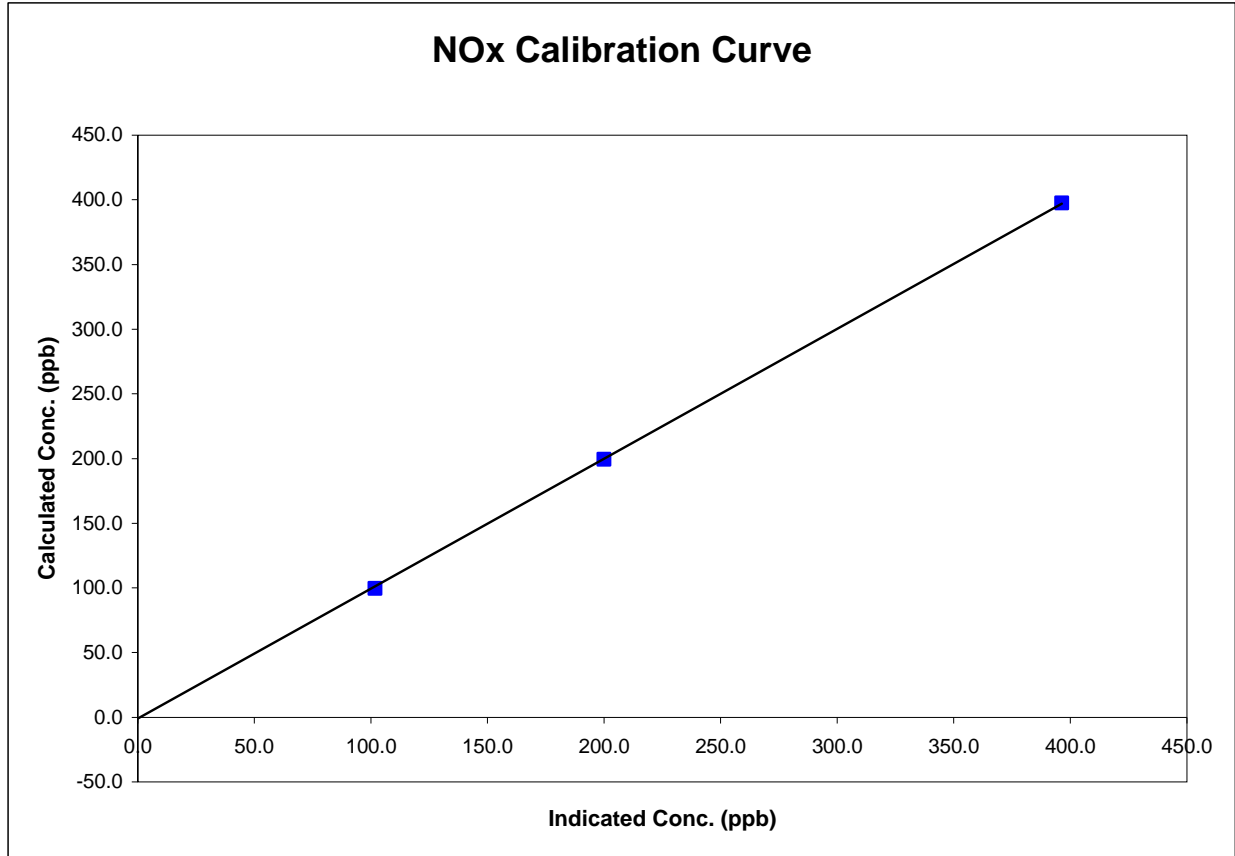


Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:20	End Time (MST)	16:15
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	0.999949
397.5	396.3	1.0030		
199.5	200.0	0.9977	Slope	1.004298
99.6	101.8	0.9787		
			Intercept	-1.051877



Calibration Summary



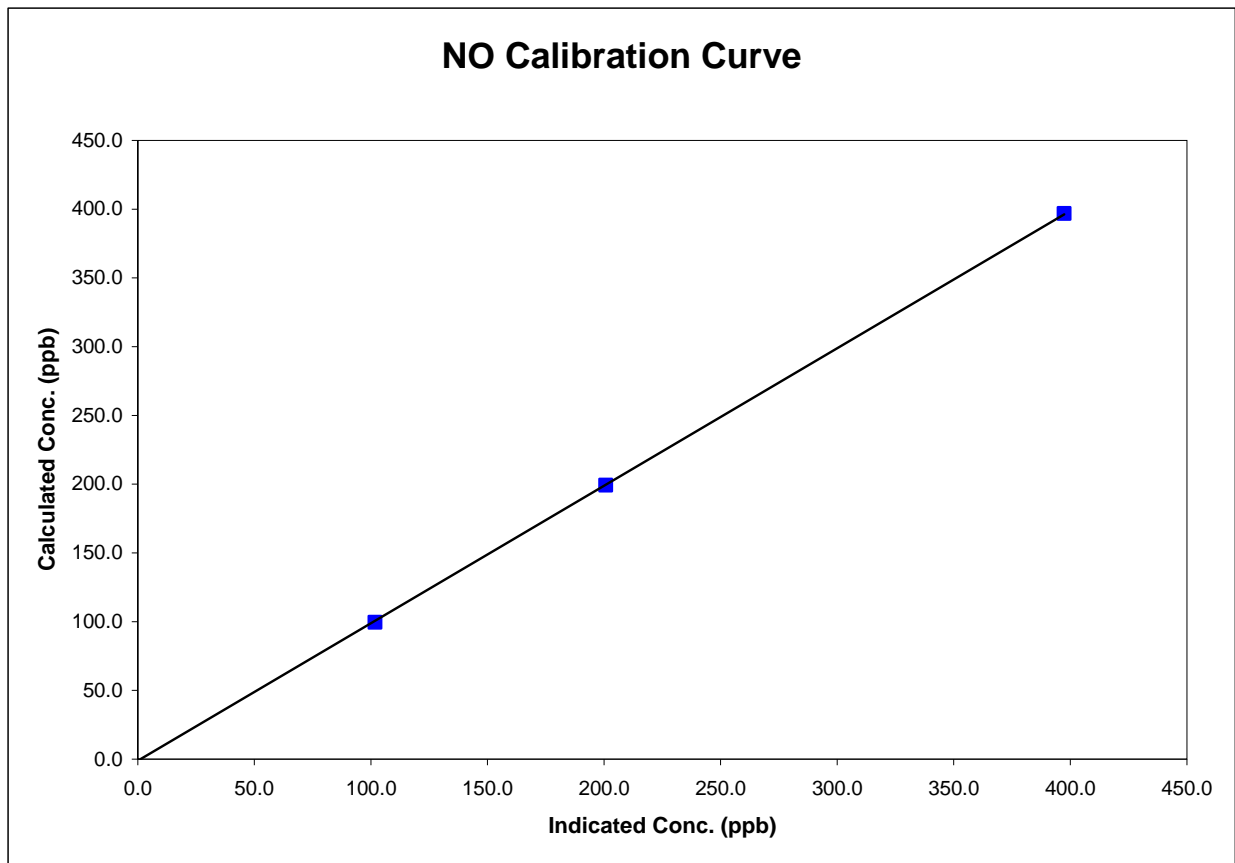
Parameter **NO**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:20	End Time (MST)	16:15
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		
396.7	397.4	0.9984	Correlation Coefficient	0.999952
199.1	200.8	0.9916		
99.4	101.8	0.9767		
			Slope	0.999165
			Intercept	-0.951818



Calibration Report

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

Station Information

Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	15:10	End Time (MST)	18:20
Barometric Pressure	0.905 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
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	0.975295	Calculated slope	1.000951
Calculated intercept	-0.342185	Calculated intercept	1.224968
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.20	ppb	-0.20	ppb
slope	1.042		1.042	
Lamp temp	56.3	mV	56.3	mV
Lamp Intensity A/B	78046/75580	mV	78046/75580	mV
Pressure	645.8	mm Hg	645.8	mm Hg
Flow A	724	ccm	724	ccm
Flow B	677	ccm	677	ccm

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	0.00	305.8	306.0	0.9995
4990	0.00	211.8	208.4	1.0164
4990	0.00	115.4	113.2	1.0193
4990	0.00	0.0	-0.1	As found zero
4990	0.00	323.9	324.4	As found span
Average Correction Factor				1.0117

Calculated value of As Found Response: 316.1 ppm Percent Change of As Found: -2.4%

	before calibration		after calibration	
Auto zero	-0.5	ppb	1.1	ppb
Auto span	112.0	ppb	111.9	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

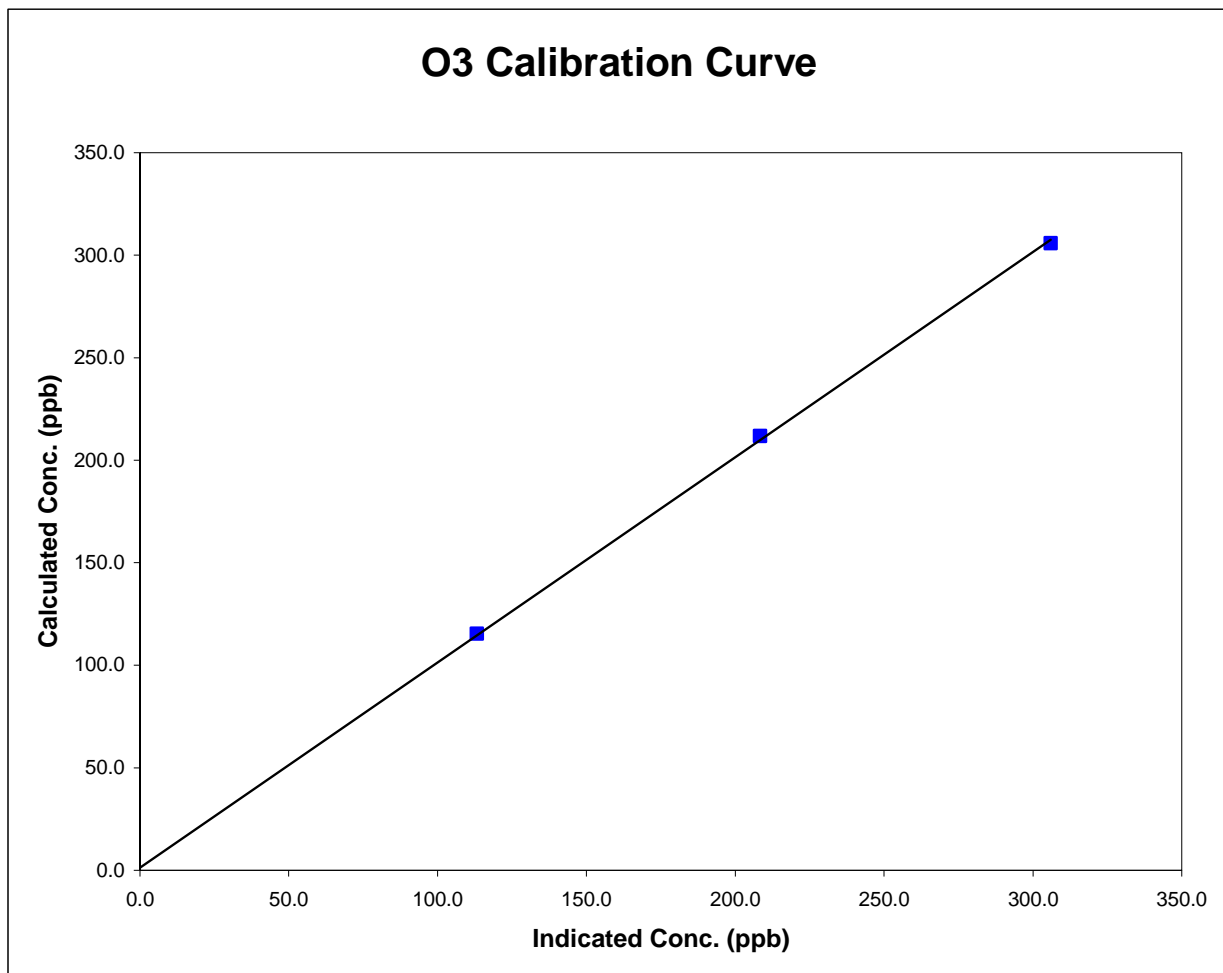
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

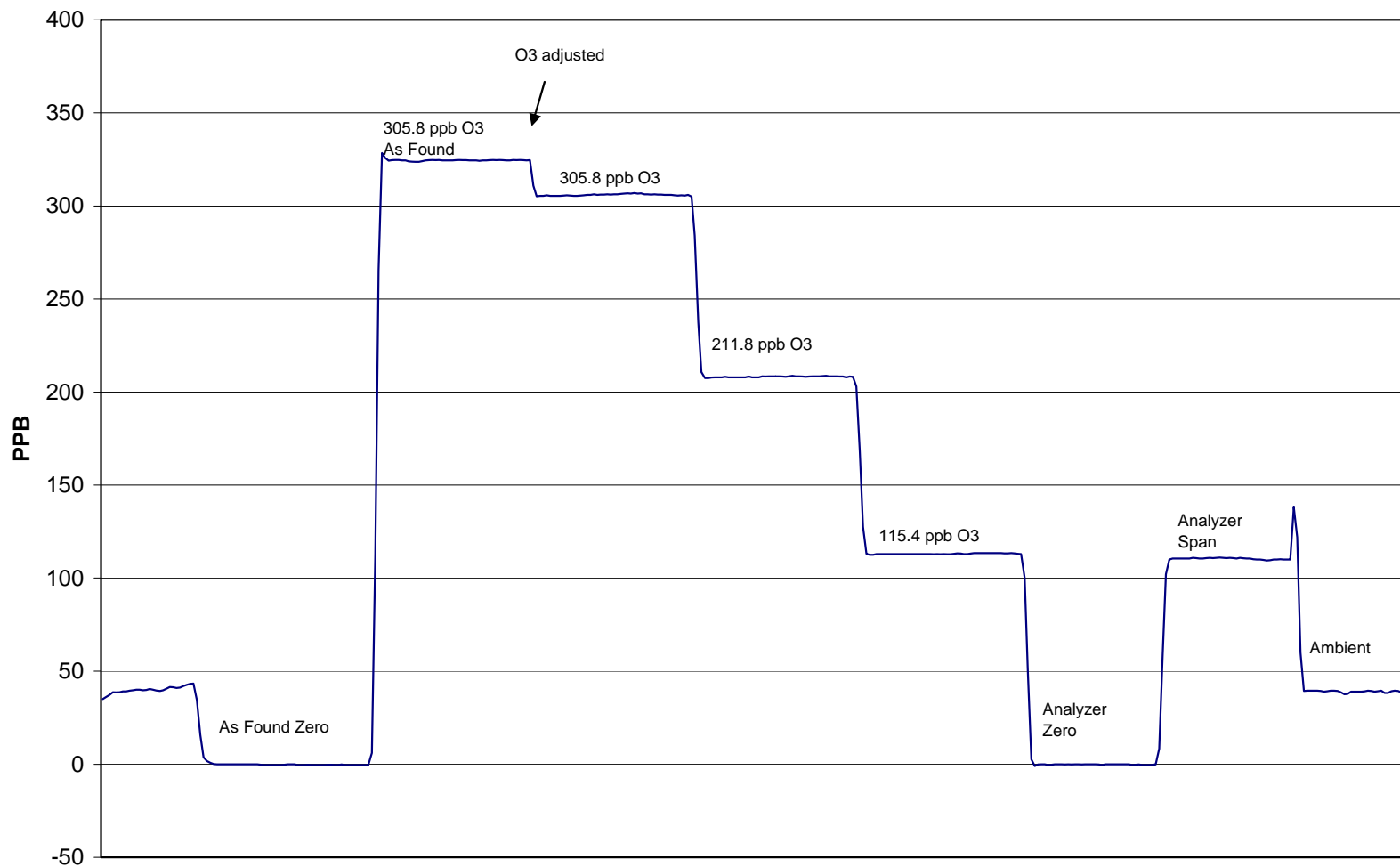
Calibration Date	February 11, 2008	Previous Calibration	January 4, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	15:10	End Time (MST)	18:20
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
305.8	306.0	0.9995	Correlation Coefficient	0.999828
211.8	208.4	1.0164		
115.4	113.2	1.0193	Slope	1.000951
			Intercept	1.224968



Beaverlodge O3 Calibration



February 11, 2008

Calibration Report

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

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:45	End Time (MST)	12:30
Barometric Pressure	27.52 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	0.999852	Calculated slope	1.004278
Calculated intercept	-1.241810	Calculated intercept	-1.352789
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	8		8	
Coefficient	1.137		1.137	
UV Lamp Voltage	740	V	737	V
Chamber Temp	44.5	C	44.5	C
Perm Gas Temp	45	C	45	C
Pressure	667.3	mm Hg	666.9	mm Hg
Sample Flow	481	LPM	482	LPM
Lamp Intesity	34409	Hz	35721	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)
4990	0.00	0.0	0.2	N/A
4990	39.86	398.6	397.7	1.0024
4990	19.88	199.6	200.7	0.9946
4990	9.92	99.8	101.9	0.9791
4990	0.00	0.0	0.2	As found zero
4990	39.94	399.4	397.7	As found span
Average Correction Factor				0.9920

Calculated value of As Found Response: 396.197 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	-0.9	ppm	-0.9	ppm
Auto span	274.5	ppm	266.2	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



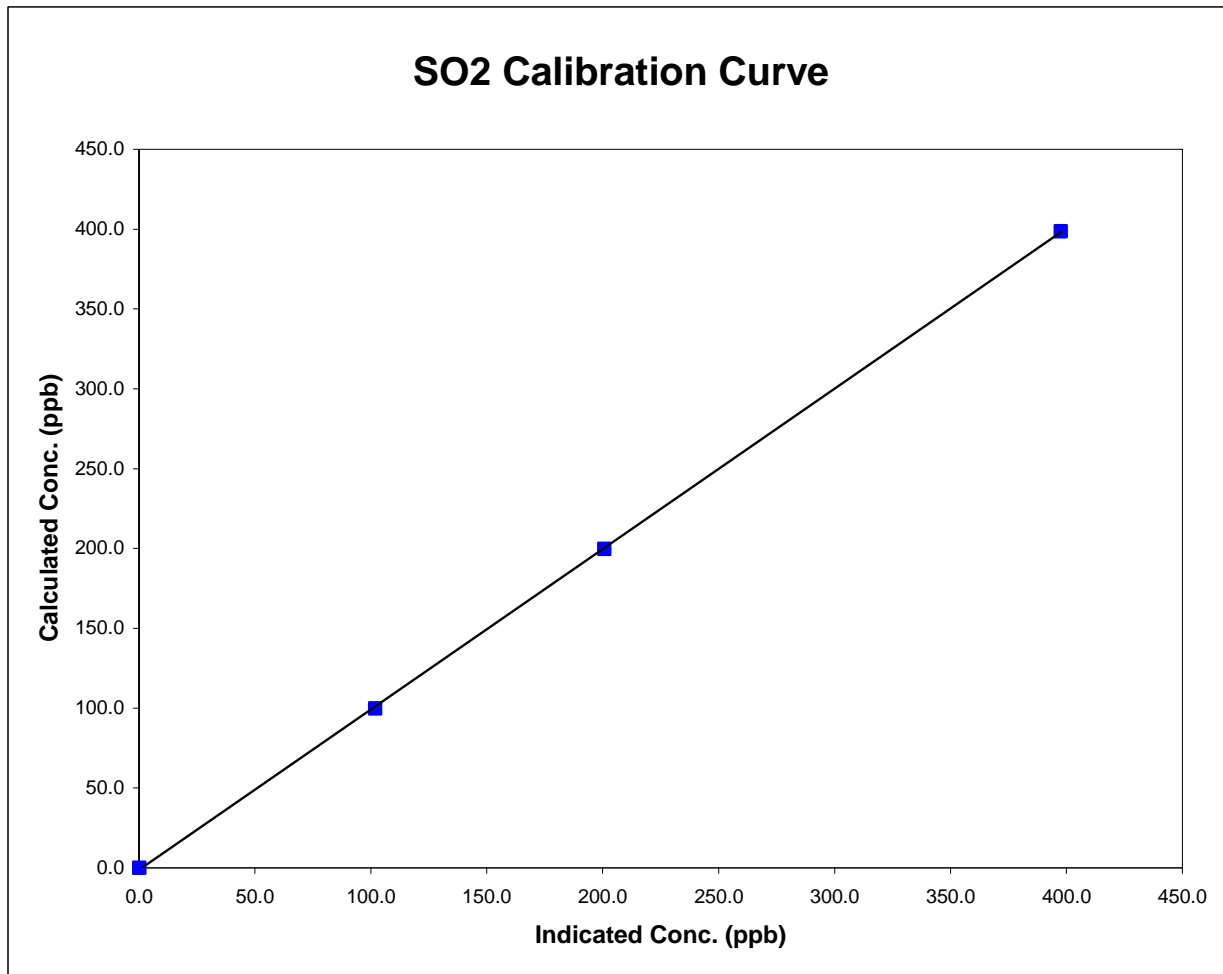
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

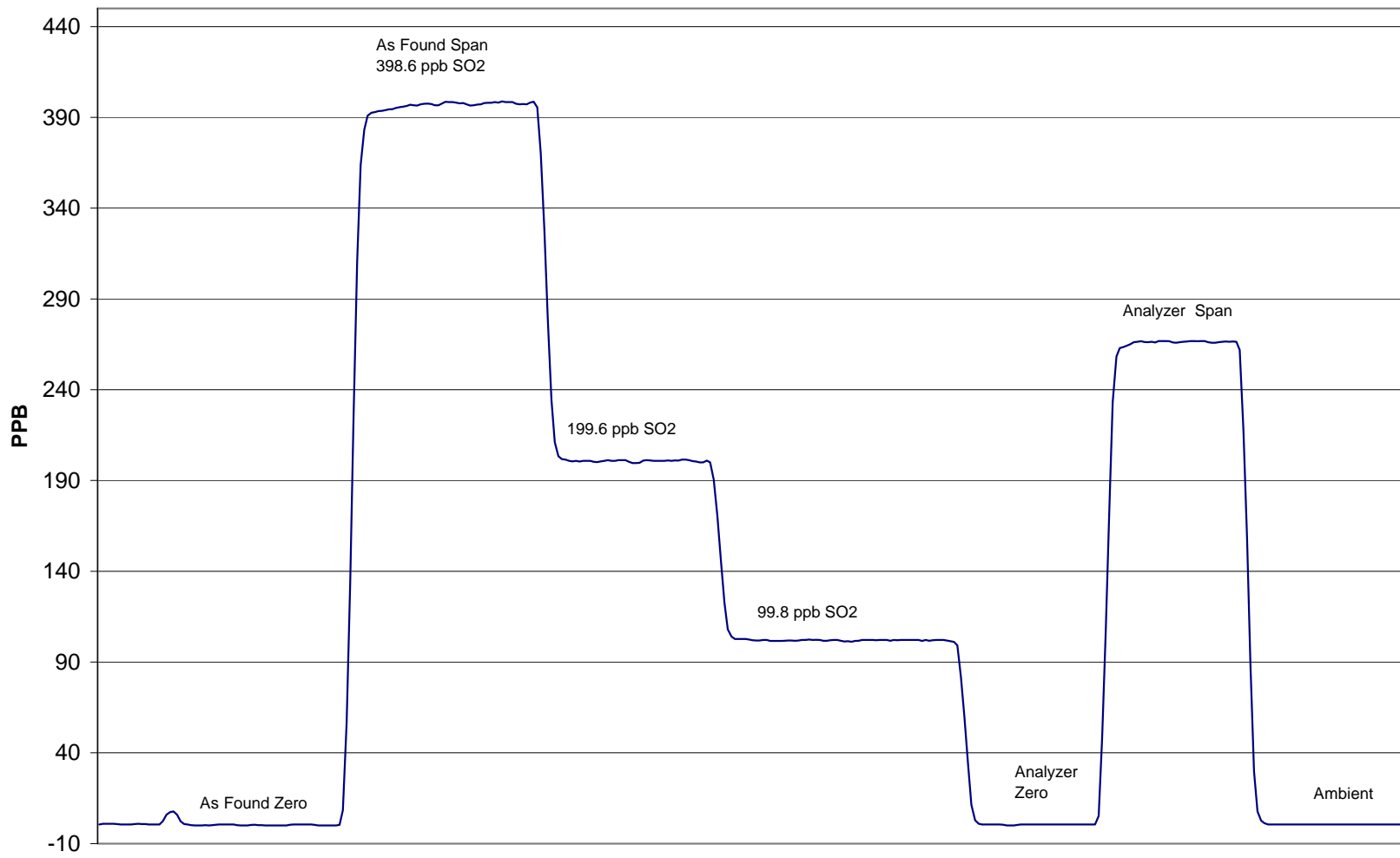
Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:45	End Time (MST)	12:30
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
398.6	397.7	1.0024	Correlation Coefficient	0.999958
199.6	200.7	0.9946		
99.8	101.9	0.9791	Slope	1.004278
			Intercept	-1.352789



Spirit River SO2 Calibration



February 21, 2008

Calibration Report

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

Station Information

Calibration Date	February 25, 2008	Previous Calibration	January 9, 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)	15:30	End Time (MST)	18:20
Barometric Pressure	27.7 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	0.986486	Calculated slope	1.012239
Calculated intercept	-0.067829	Calculated intercept	-0.305551
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	9.3	ppb	8.7	ppb
Coefficient	1.496		1.416	
Lamp Voltage	807	V	813	V
Chamber Temp	44.0	C	43.9	C
Perm gas Temp	44.9	C	45	C
Pressure	656	mmHg	668	mmHg
Sample Flow	431	ccm	438	ccm
Lamp Intensity	39264.0	Hz	39000.0	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	0.5	N/A
4988	69.74	70.9	70.4	1.0064
4988	39.84	40.7	40.4	1.0083
4988	9.93	10.2	10.3	0.9953
4988	0.00	0.0	0.5	As found zero
4988	69.74	70.9	73.7	As found span
Average Correction Factor				1.0034

Calculated value of As Found Response: 72.18 ppm Percent Change of As Found: -1.8%

	before calibration		after calibration	
Auto zero	0.2	ppm	0.1	ppm
Auto span	77.1	ppm	71.9	ppm

Notes: Adjusted TRSCalibration Performed By: Conor Whiteley

Calibration Summary

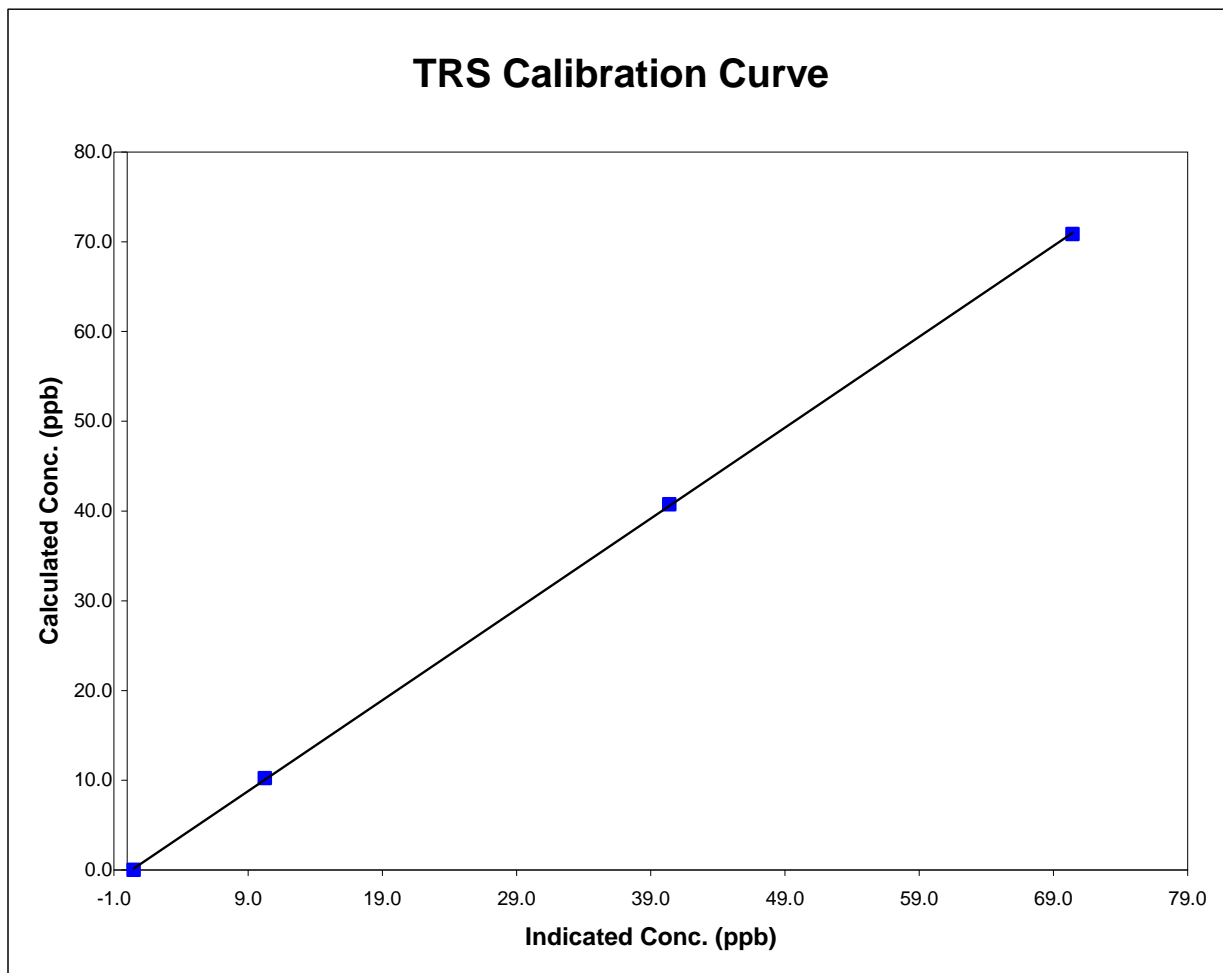
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

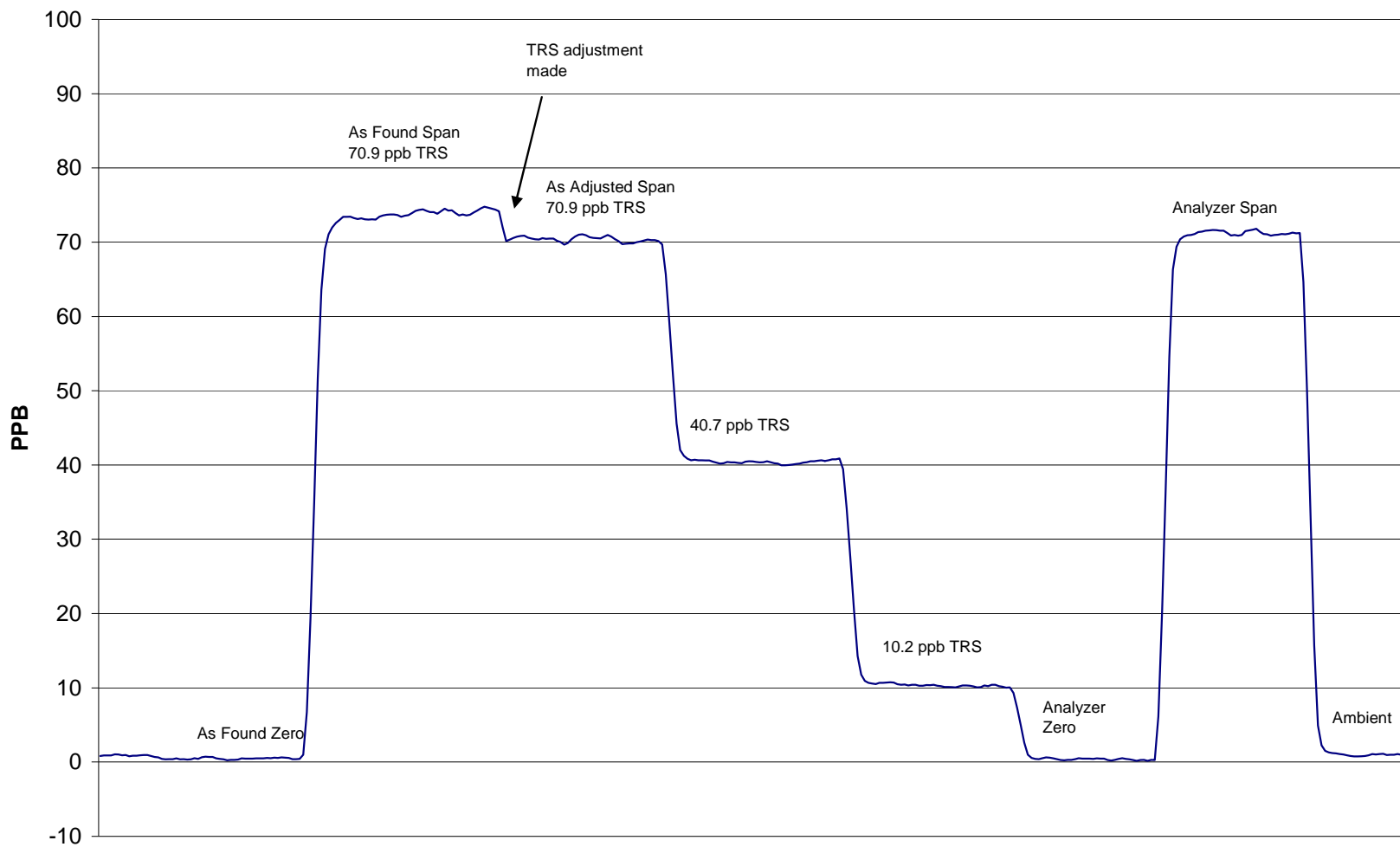
Calibration Date	February 25, 2008	Previous Calibration	January 9, 2008
Station Number	6	Station Location	Rover
Start Time (MST)	15:30	End Time (MST)	18:20
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
70.9	70.4	1.0064	Correlation Coefficient	0.999974
40.7	40.4	1.0083		
10.2	10.3	0.9953	Slope	1.012239
			Intercept	-0.305551



Spirit River TRS Calibration



February 25, 2008

Calibration Report

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

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 9, 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)	13:10	End Time (MST)	16:10
Barometric Pressure	0.920 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	0.998089	Calculated slope	0.995804
Calculated intercept	1.173136	Calculated intercept	-0.916773
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	1.022		1.022	
Cell A	113174	Hz	112851	Hz
Cell B	111092	Hz	110021	Hz
Pressure	669	in Hg	670	in Hg
CellA Flow	670	ccm	667	ccm
Cell B Flow	664	cmm	665	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	290.0	291.2	0.9961
4990	0.00	193.0	195.9	0.9848
4990	0.00	100.7	102.5	0.9824
4990	0.00	0.0	0.2	As found zero
4990	0.00	300.0	271.5	As found span
Average Correction Factor				0.9878

Calculated value of As Found Response: 271.9 ppm Percent Change of As Found: -9.4%

	before calibration		after calibration	
Auto zero	2.2	ppb	0.7	ppb
Auto span	379.1	ppb	357.5	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary



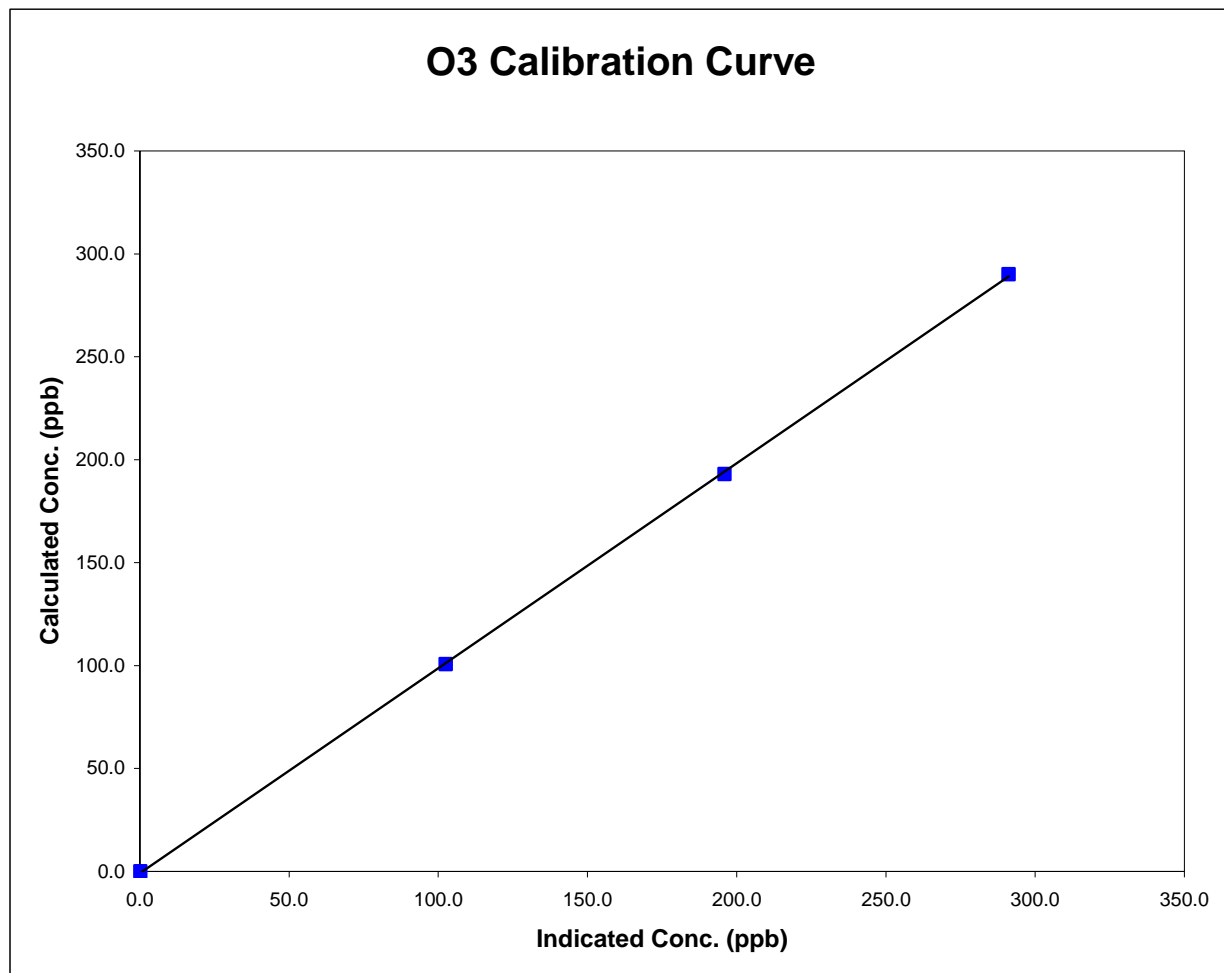
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

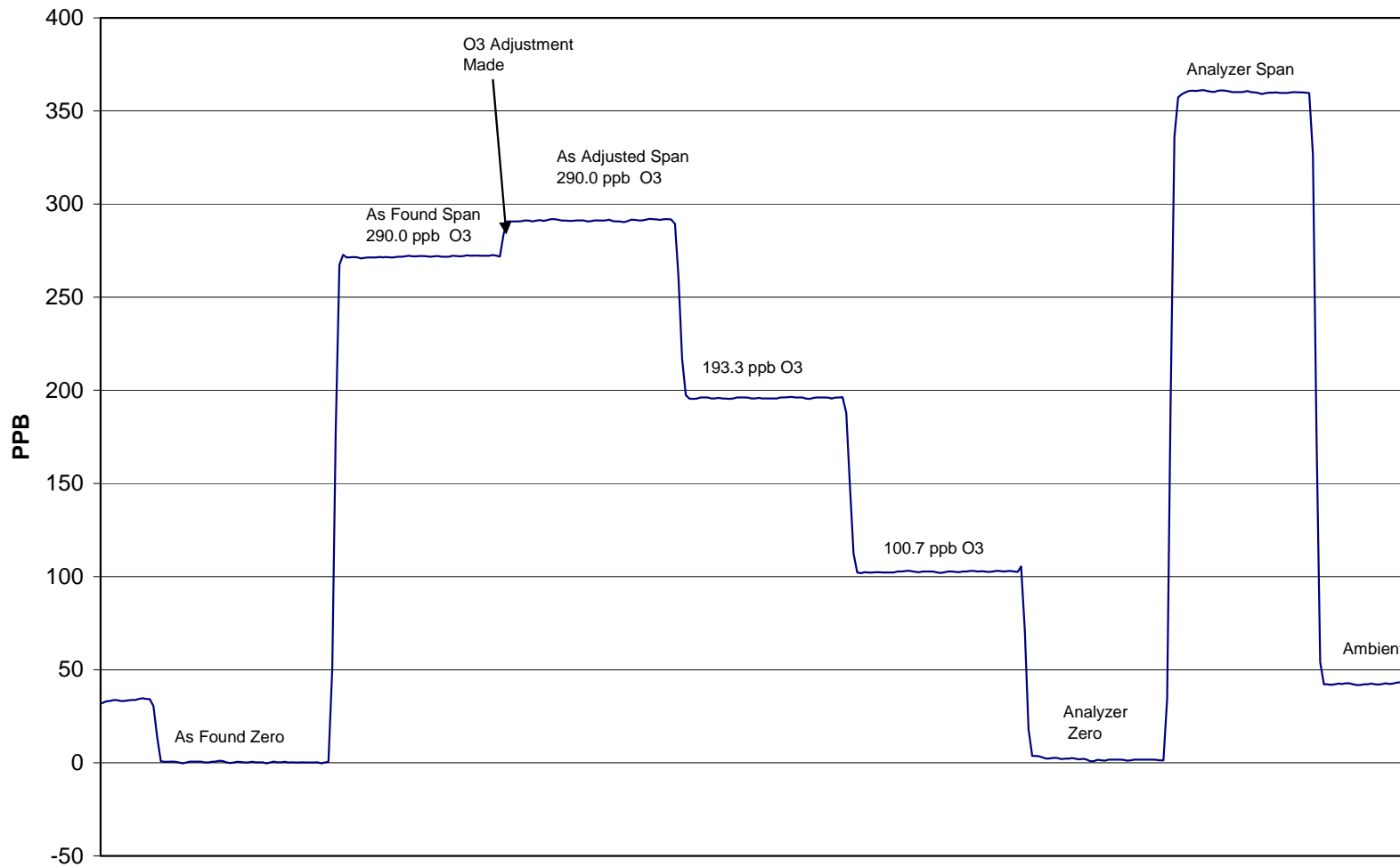
Calibration Date	February 21, 2008	Previous Calibration	January 9, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	13:10	End Time (MST)	16:10
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
290.0	291.2	0.9961	Correlation Coefficient	0.999931
193.0	195.9	0.9848		
100.7	102.5	0.9824	Slope	0.995804
			Intercept	-0.916773



Spirit River O3 Calibration



February 21, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	Routine	Installation	Removal
Start Time (MST)	9:45	End Time (MST)	14:05
Barometric Pressure	27.52 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		NO ₂	NO _x	NO
Before	Data Slope	1.004452	1.006997	1.005280
	Data Offset	-0.070086	-1.357492	-1.328860
After	Data Slope	0.999348	1.002080	1.000814
	Data Offset	0.060165	-1.680422	-1.803559
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	4.2	ppb	4.2	mV
NO _x background	4.4	ppb	4.4	mV
NO coefficient	0.712		0.712	
NO _x coefficient	0.999		0.999	
Chamber Temp	50.1	Deg C	50.0	Deg C
Cooler Temp	-3.0	Deg C	-3.0	Deg C
NO ₂ Converter Temp	326.3	Deg C	325.9	Deg C
Sample Flow	632.0	ccm	629.0	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	166.3	mm Hg	169.1	mm Hg

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report



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

Station Information

Calibration Date: **February 21, 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 NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	0.3	0.1	0.4	N/A	N/A
1	4990	39.86	387.5	387.5	0.0	387.6	388.0	0.4	0.9998	0.9988
2	4990	19.88	194.0	194.0	0.0	196.3	196.9	0.3	0.9887	0.9856
3	4990	9.92	97.0	97.0	0.0	99.7	100.3	0.2	0.9727	0.9674
AFZ	4990	0.00	0.0	0.0	0.0	0.3	0.1	0.4	0.0000	0.0000
AFS	4990	39.92	388.1	388.1	0.0	387.6	388.0	0.4	1.0013	1.0003
Average Correction Factor									0.9871	0.9839

As Found Concentrations: NO_x= 385.9 NO= 386.6 As Found Percent Change NO_x= -0.6% NO= -0.4%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.82 ccm

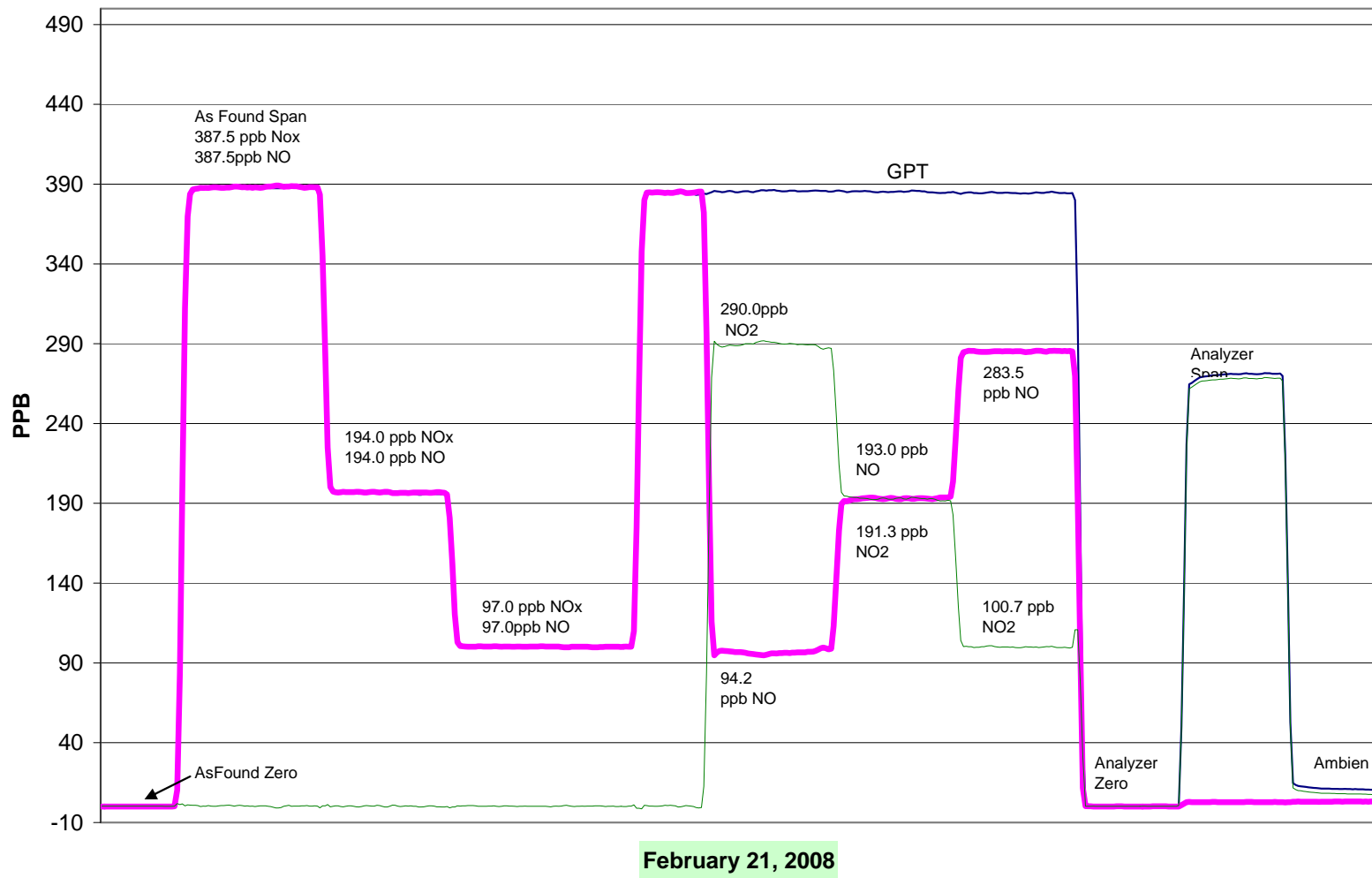
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	384.3	383.3	1.0	384.1	384.8	0.2	1.0006	0.9961	N/A	N/A
300	384.3	94.2	290.0	385.7	96.0	290.4	0.9962	0.9820	0.9988	100.1%
200	384.3	191.3	193.0	385.3	193.0	193.1	0.9973	0.9915	0.9995	100.1%
100	384.3	283.5	100.7	384.4	285.1	100.0	0.9996	0.9945	1.0070	99.3%
Average Correction Factor							0.9977	0.9893	1.0017	99.8%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO ₂	NO		NOx	NO ₂	NO	
Auto zero	0.2	1.0	0.6	ppb	0.7	1.0	0.9	ppb
Auto span	268.1	265.4	2.0	ppb	269.5	267.8	1.0	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



Calibration Summary

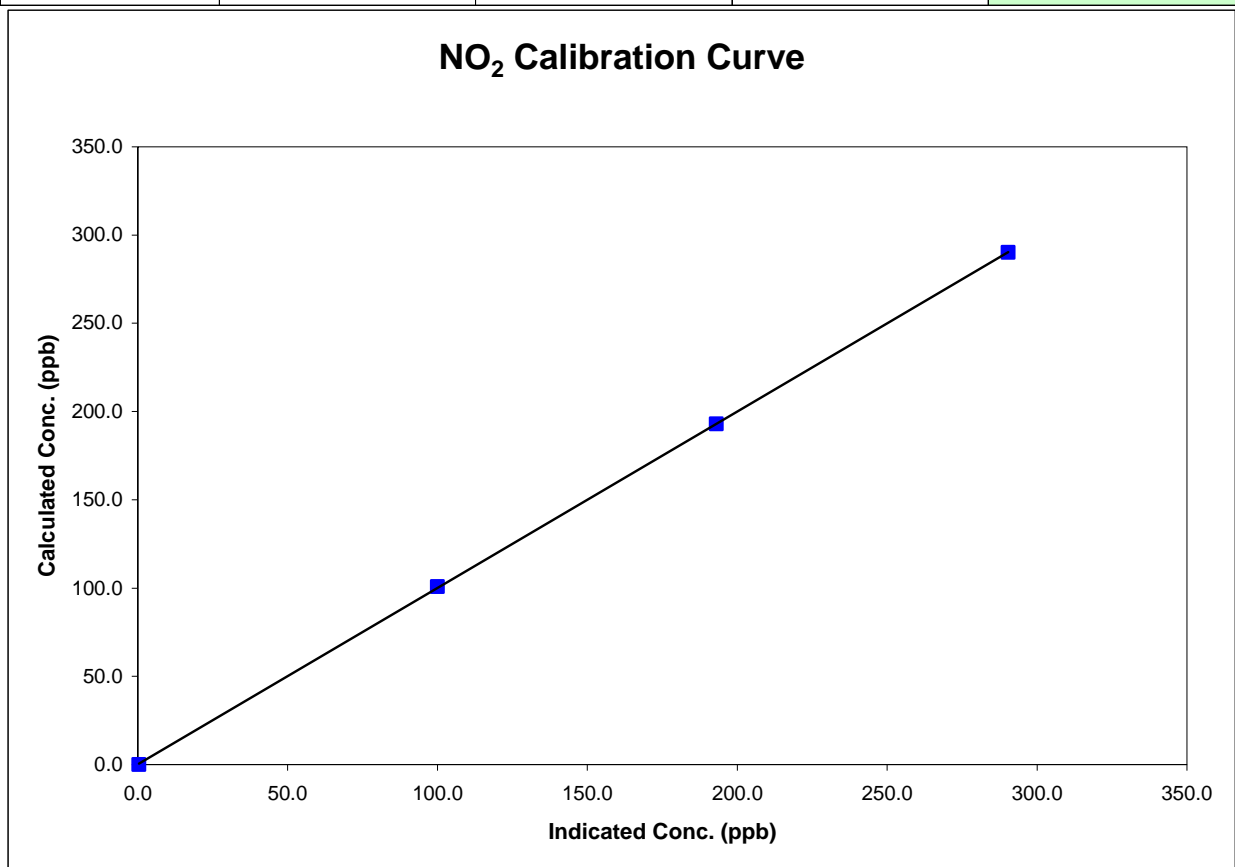
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:45	End Time (MST)	14:05
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	0.999984
290.0	290.4	0.9988		
193.0	193.1	0.9995		
100.7	100.0	1.0070		
			Slope	0.999348
			Intercept	0.060165



Calibration Summary

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

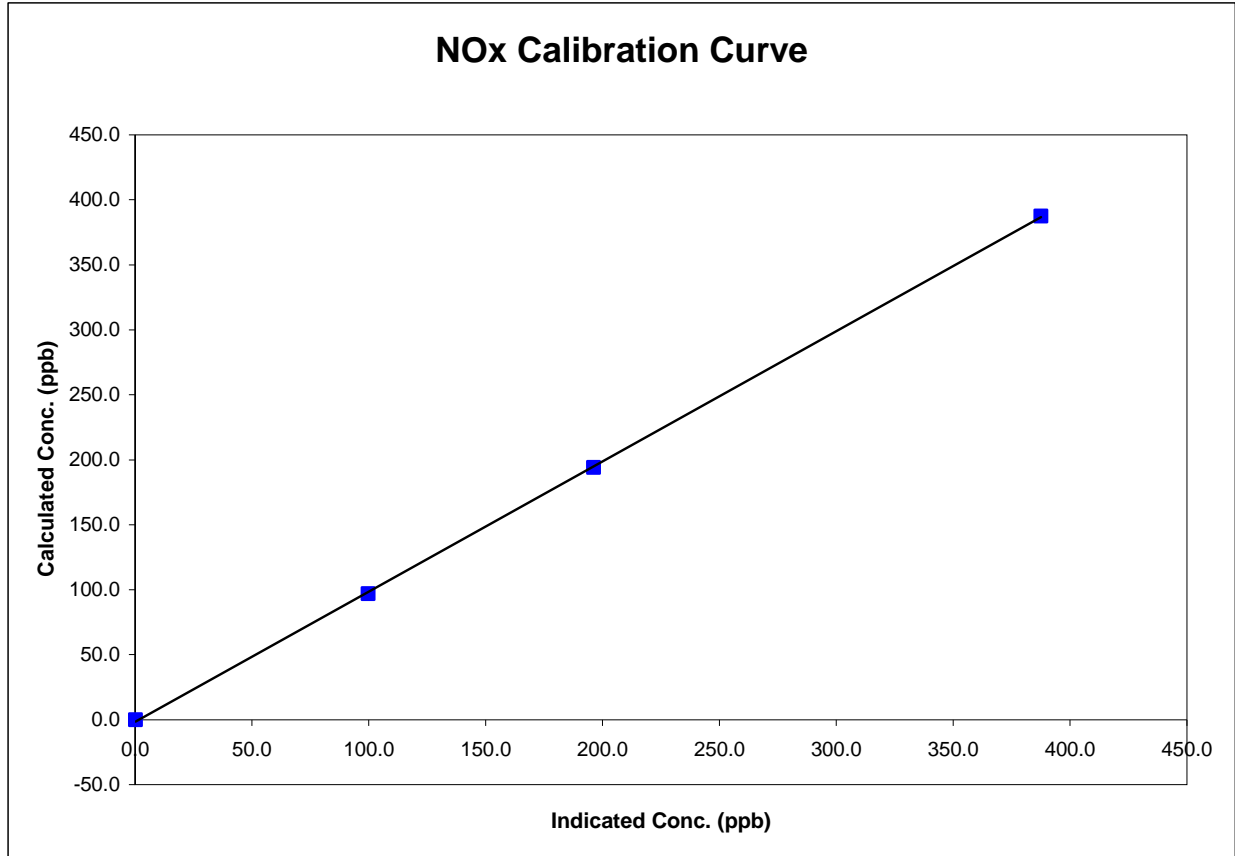


Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:45	End Time (MST)	14:05
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	0.3	0.0000	Correlation Coefficient	0.999938
387.5	387.6	0.9998		
194.0	196.3	0.9887		
97.0	99.7	0.9727		
			Slope	1.002080
			Intercept	-1.680422



Calibration Summary

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

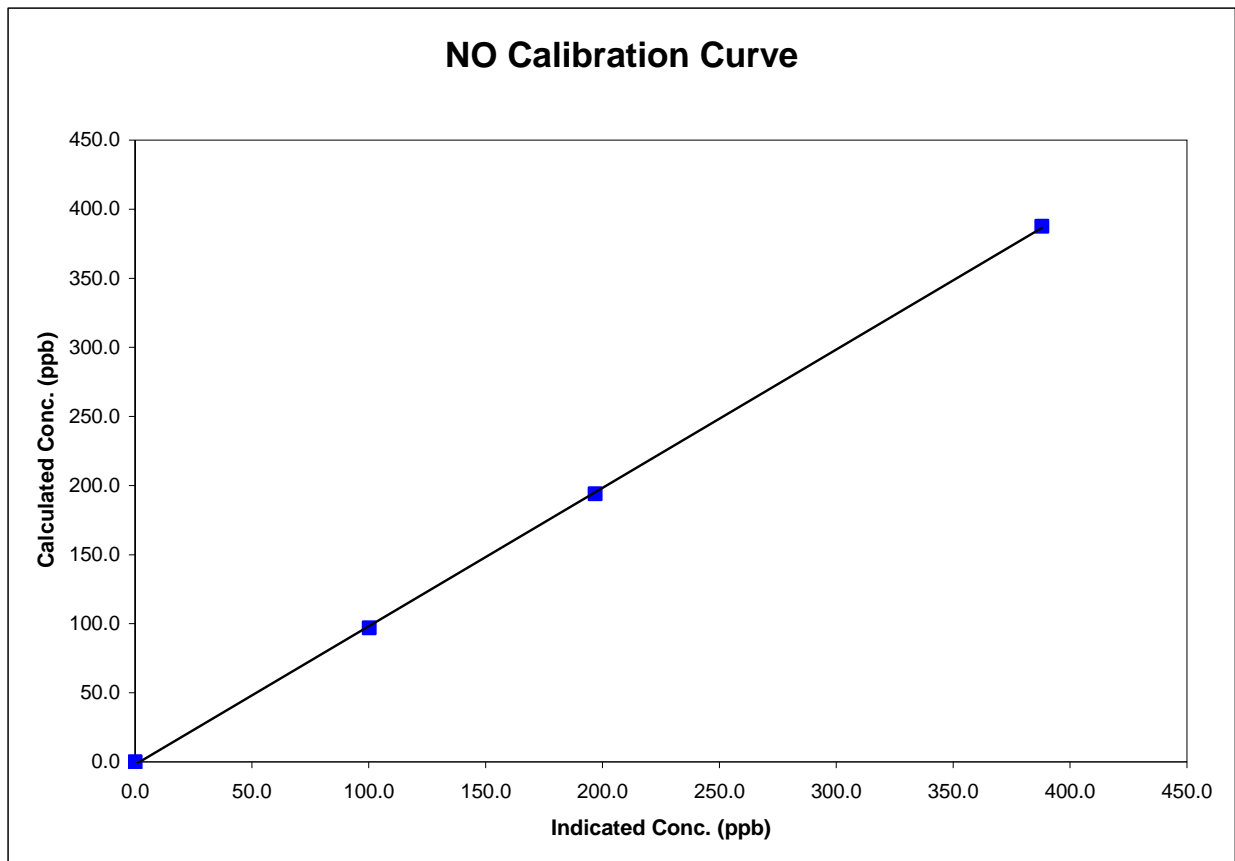


Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 8, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:45	End Time (MST)	14:05
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	0.1	N/A		
387.5	388.0	0.9988	Correlation Coefficient	0.999904
194.0	196.9	0.9856		
97.0	100.3	0.9674	Slope	1.000814
			Intercept	-1.803559



Calibration Report



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

Station Information

Calibration Date	February 22, 2008	Previous Calibration	January 22, 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)	14:00	End Time (MST)	17:25
Barometric Pressure	27.33 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	1.018085	Calculated slope	0.995383
Calculated intercept	-1.252793	Calculated intercept	-0.848106
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28.2		28	
Coefficient	0.758		0.74	
UV Lamp Voltage	697	LPM	697	LPM
Chamber Temp	44.2	V	43.7	V
Perm Gas Temp	30.5	C	30.5	C
Pressure	641.9	in Hg	626.8	in Hg
Sample Flow	0.474	LPM	0.47	LPM
Lamp Intesity	45186	Hz	45804	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	-0.3	N/A
4991	39.83	398.2	400.1	0.9953
4991	19.91	199.9	202.9	0.9849
4991	9.99	100.5	102.5	0.9806
4992	0.00	0.0	-0.3	As found zero
4992	39.91	398.9	408.8	As found span
Average Correction Factor				0.9869

Calculated value of As Found Response: 415.215 ppm Percent Change of As Found: -4.1%

	before calibration		after calibration	
Auto zero	-2.0	ppm	-1.1	ppm
Auto span	162.6	ppm	166.3	ppm

Notes: SO2 adjusted

Calibration Performed By: Conor Whiteley

Calibration Summary



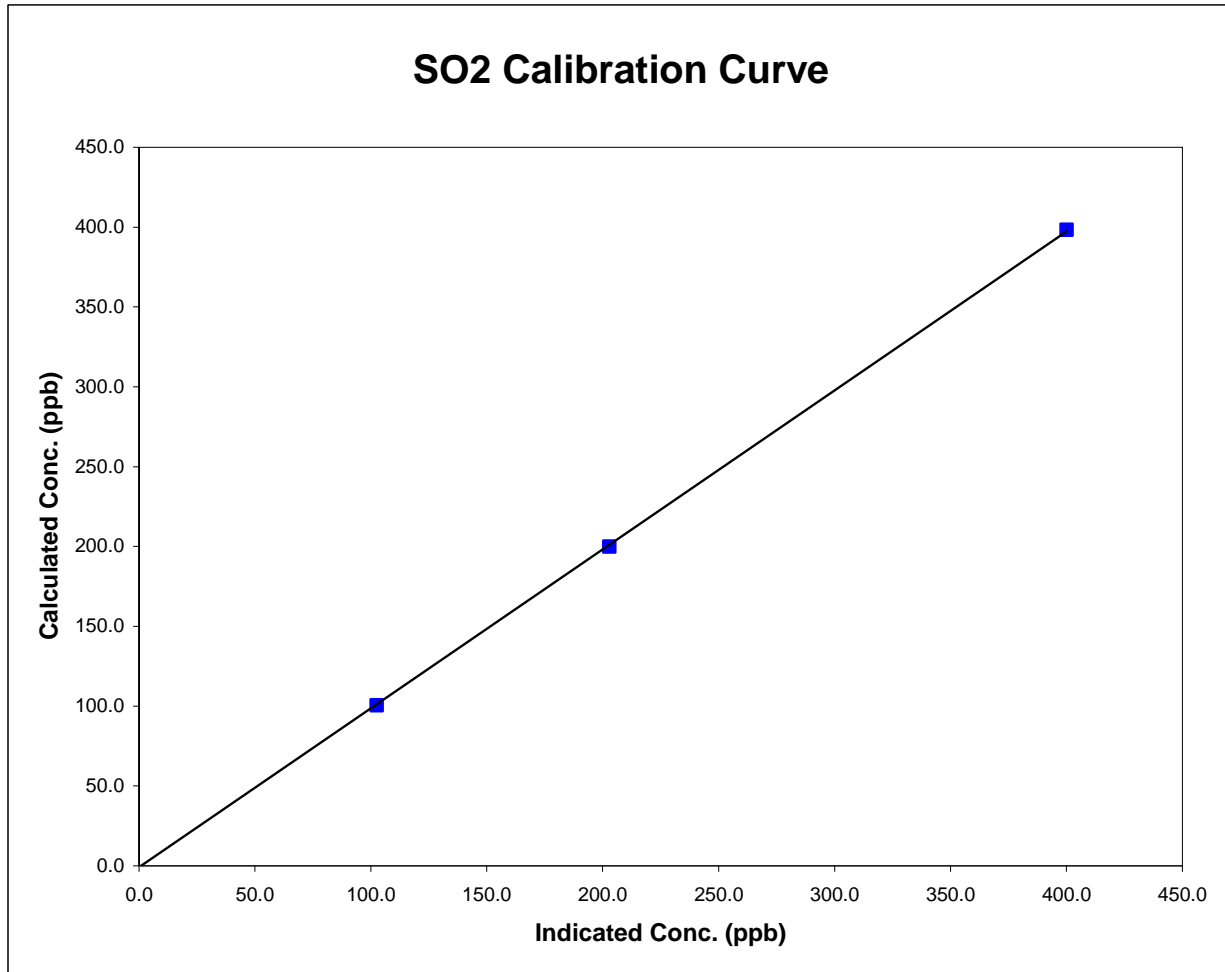
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

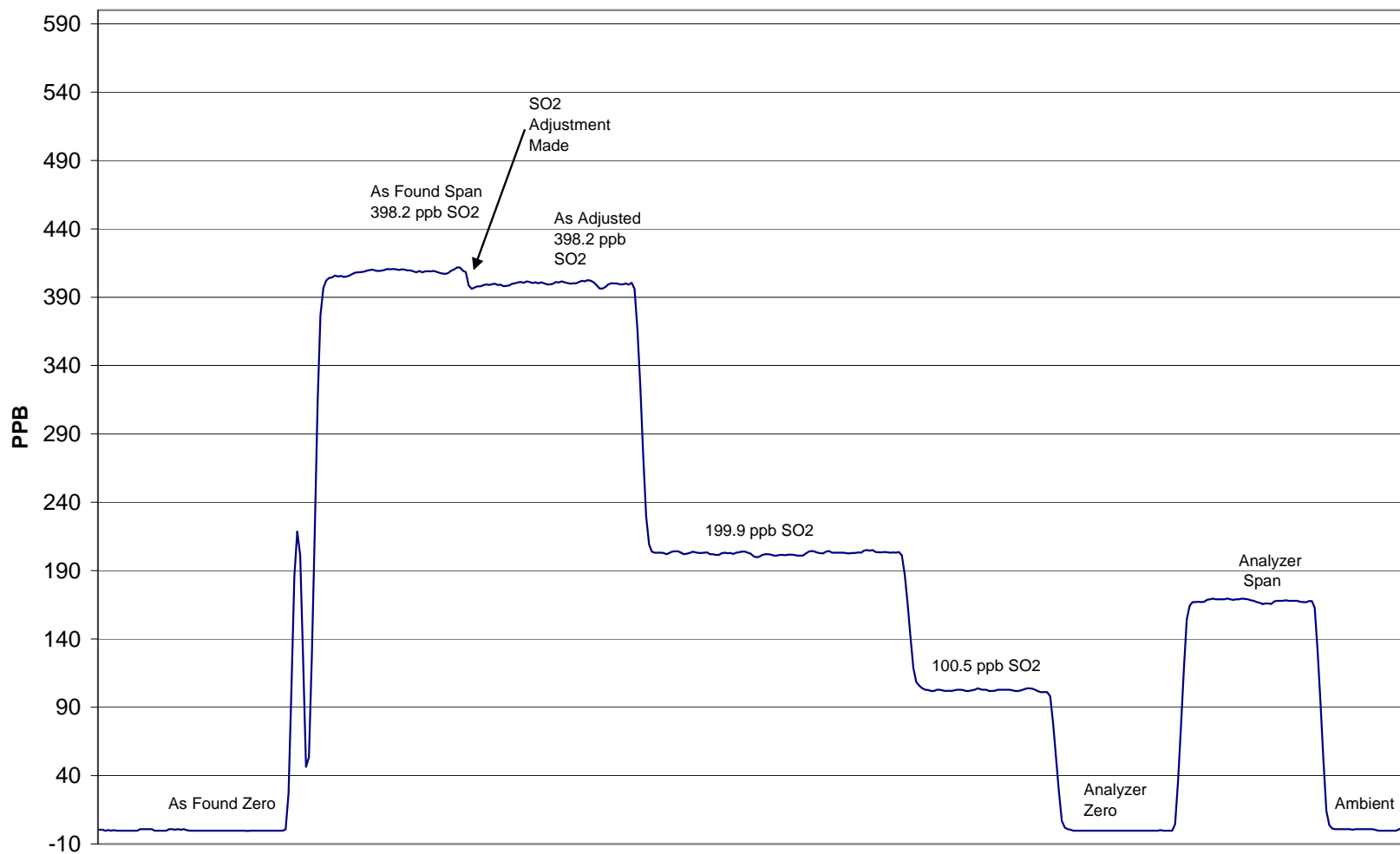
Calibration Date	February 22, 2008	Previous Calibration	January 22, 2008
Station Number	6	Station Location	Valleyview
Start Time (MST)	14:00	End Time (MST)	17:25
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
398.2	400.1	0.9953	Correlation Coefficient	0.999953
199.9	202.9	0.9849		
100.5	102.5	0.9806		
			Slope	0.995383
			Intercept	-0.848106



Valleyview SO2 Calibration



February 22, 2008

Calibration Report



Parameter **H2S**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	February 22, 2008	Previous Calibration	January 22, 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)	16:35	End Time (MST)	19:00
Barometric Pressure	27.33 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
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.023808	Calculated slope	1.035401
Calculated intercept	-0.012858	Calculated intercept	0.208205
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.7	ppb	4.8	ppb
Coefficient	1.026		1.026	
Lamp Voltage	802	V	802	V
Chamber Temp	45	c	45	c
Perm Oven Temp	44.98	c	44.97	c
Pressure	649	mm Hg	636	mm Hg
Sample Flow	433	ccm	424	ccm
Lamp Intensity	91.0	%	90.0	%

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	79.81	80.9	77.9	1.0386
4990	39.79	40.7	39.2	1.0371
4990	9.93	10.2	9.4	1.0815
4990	0.00	0.0	-0.1	As found zero
4990	79.81	80.9	77.9	As found span
Average Correction Factor				1.0524

Calculated value of As Found Response: 79.83 ppm Percent Change of As Found: 1.3%

	before calibration		after calibration	
Auto zero	-0.1	ppm	0.1	ppm
Auto span	63.5	ppm	66.6	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

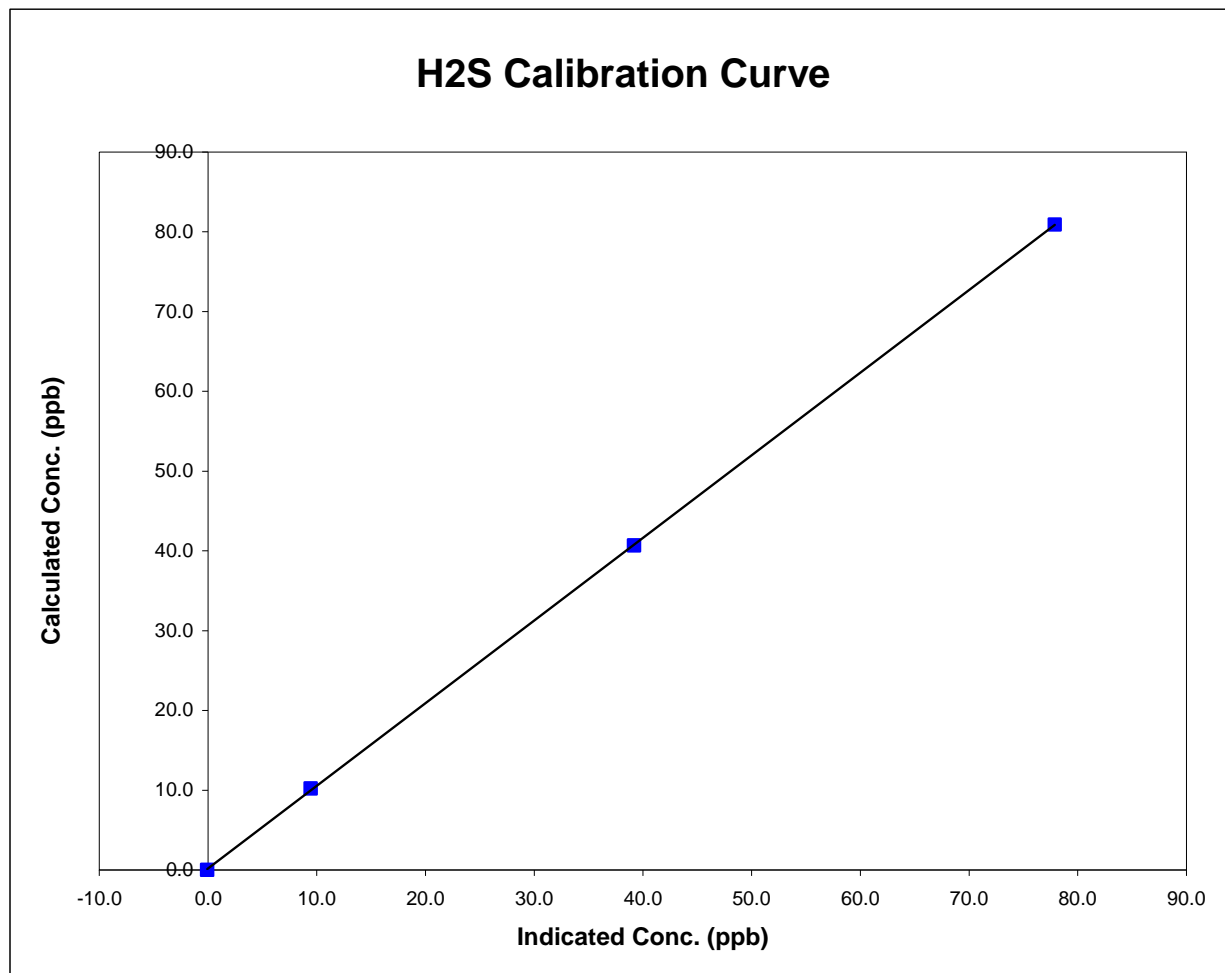
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

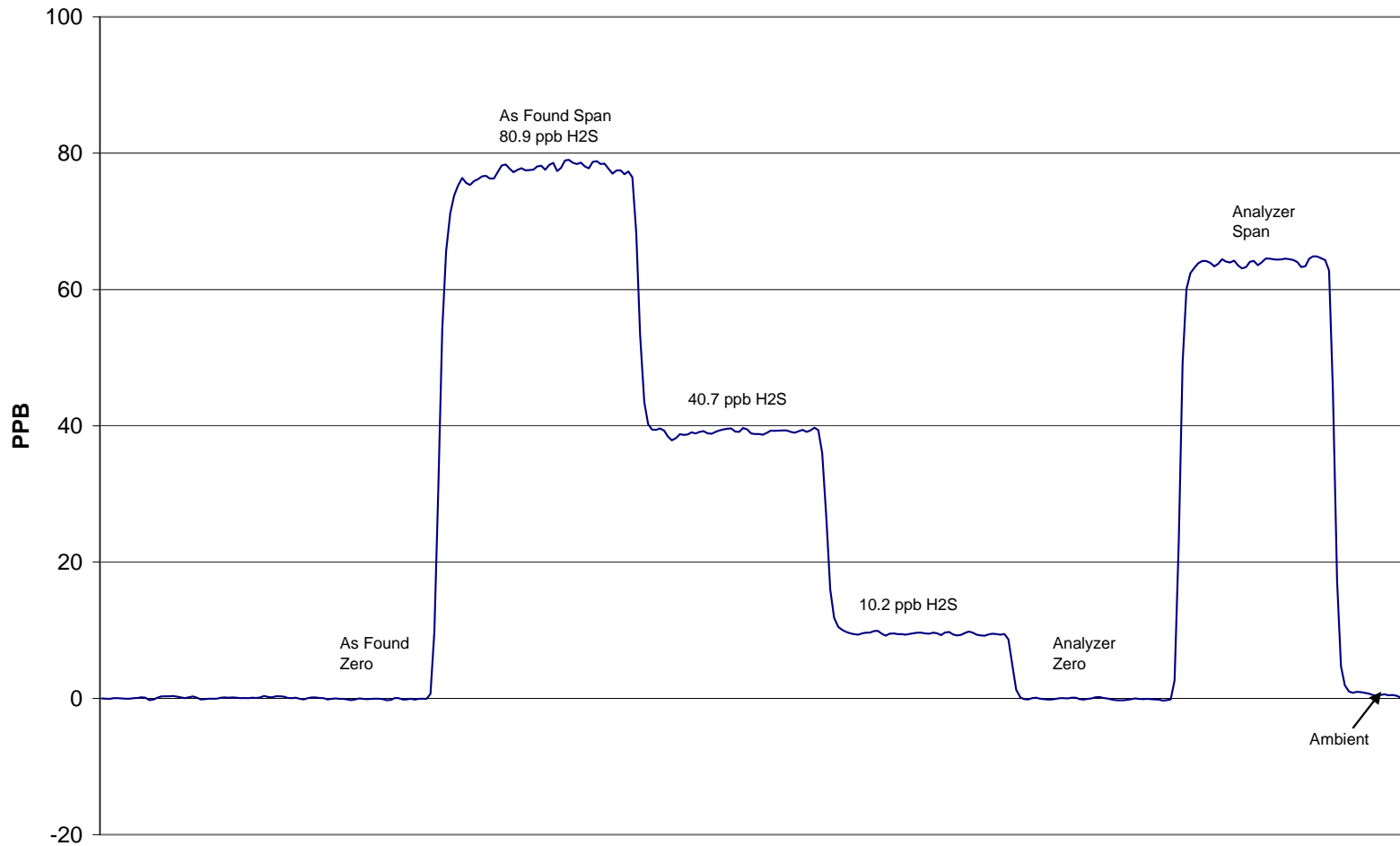
Calibration Date	February 22, 2008	Previous Calibration	January 22, 2008
Station Number	5	Station Location	Valleyview
Start Time (MST)	16:35	End Time (MST)	19:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
80.9	77.9	1.0386	Correlation Coefficient	0.999977
40.7	39.2	1.0371		
10.2	9.4	1.0815	Slope	1.035401
			Intercept	0.208205



Valleyview H2S Calibration



February 22, 2008