



Air Quality Monitoring Network for November 2007

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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January 3, 2008

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RE: Peace Airshed Zone Association (PASZA) – November 2007 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **November 2007**.

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

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

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

During the month of November 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 26th, 28th, 29th and 30th – reason undetermined.
- ◆ No CO spans on November 29th and 30th due to cylinder pressure.
- ◆ The THC analyzer had a number of issues during the month of November. Spans had dropped from the 19th to the 23rd and on November 25th the THC analyzer had thirteen (13) hours flagged due to excessive baseline drift. On November 26th there were two (2) hours flagged invalid and two (2) hours flagged for maintenance to troubleshoot the issues with the analyzer. A second calibration was performed.
- ◆ The O₃ analyzer had a number of days where the spans were unstable due to failing UV lamp; a new lamp was installed in December.
- ◆ The AQI for the month resulted in 630 hours of Good readings and 1 hour of Fair readings.

Evergreen Park Station:

- ◆ The TRS spans increased greater than 10% on November 5th, 7th, 8th, 10th, 11th and 12th - reason undetermined.
- ◆ On November 13th and 18th there were a total of seven (7) hours flagged invalid for the wind speed and wind direction sensors – sensors flatlined, possible cups frozen.
- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.

Smoky Heights Station:

- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime of 100%.
- ◆ SO₂ spans increased on November 8th and 9th – reason undetermined; however a new SO₂ trace analyzer was installed on November 13th.
- ◆ From November 13th to the 18th NO_x spans shifted caused by improper purging of cylinder span gas at time of calibration.
- ◆ The AQI for the month resulted in 684 hours of Good readings.

Portable – Spirit River Station:

- ◆ Wind speed and wind direction had forty-four (44) hours of data flagged invalid, sensors not responding correctly. The Gill ultrasonic wind system was disconnected and was replaced with a Met One system on November 7th (twenty-six (26) hours flagged for maintenance).
- ◆ The relative humidity and temperature sensors continue to be out of service for the month of November – Alberta Environment reference # 192650.
- ◆ All analyzers / sensors at the Spirit River station had an operational uptime greater than 90%.

Valleyview Station:

- ◆ The SO₂ spans increased greater than 10% on November 26th to 30th - reason undetermined.
- ◆ A power failure on November 15th resulted in three (3) hours of invalid data for all analyzers and sensors.
- ◆ All analyzers / sensors at the Valleyview station had an operational uptime greater than 90%.

Passive Monitoring: 54 Stations throughout the PASZA zone:

Field notes during collection noted that: all three samples (SO₂, NO₂ and O₃) from the Ronan site were missing. There were six duplicate sites sampled in the month of November: Webber Creek, Saddle Hills, McLennan, High Prairie, Dixonville 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 0.1 ppb to 0.9 ppb, with a mean of 0.4 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.7 ppb to 9.9 ppb, with a mean of 2.0 ppb.
- Monthly average concentrations for O₃ passives ranged from 16.5 ppb to 34.8 ppb, with a mean of 28.0 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

Nov-2007 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	0.2	0	0	6.2	Nov-27 03:00	9.7	WNW	1.7	Nov-27	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.3	0	0	9.2	Nov-10 04:00	3.8	ESE	1.3	Nov-10	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.5	0	0	7.1	Nov-13 23:00	20.5	W	2.1	Nov-22	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.5	0	0	10.0	Nov-25 13:00	12.9	NE	1.6	Nov-25	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.5	0	0	5.2	Nov-03 06:00	10.3	W	1.4	Nov-22	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.73	0	0	12.86	Nov-01 08:00	22.2	WNW	4.66	Nov-01	99.6%
NO (ppb)			Henry Pirker	9.2	-	-	141.0	Nov-29 17:00	4.3	WNW	34.8	Nov-29	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	13.3	0	0	43.2	Nov-29 17:00	4.3	WNW	26.4	Nov-29	100.0%
NO _x (ppb)			Henry Pirker	22.4	-	-	184.0	Nov-29 17:00	4.3	WNW	61.0	Nov-29	100.0%
NO (ppb)			Beaverlodge	0.6	-	-	13.2	Nov-16 09:00	1.8	NNW	4.5	Nov-16	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	4.7	0	0	26.2	Nov-15 18:00	3.6	SE	10.4	Nov-16	100.0%
NO _x (ppb)			Beaverlodge	5.3	-	-	30.7	Nov-15 18:00	3.6	SE	15.0	Nov-16	100.0%
NO (ppb)			Portable-Spirit River	0.9	-	-	18.5	Nov-27 07:00	13.8	SW	3.1	Nov-21	100.0%
NO ₂ (ppb)	212	106	Portable-Spirit River	4.9	0	0	24.9	Nov-27 07:00	13.8	SW	13.1	Nov-21	100.0%
NO _x (ppb)			Portable-Spirit River	5.8	-	-	43.5	Nov-27 07:00	13.8	SW	16.2	Nov-21	100.0%
O ₃ (ppb)	82		Henry Pirker	17.5	0	-	38.3	Nov-24 07:00	23.6	WSW	31.6	Nov-01	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					38.4	Nov-01	
O ₃ (ppb)	82		Beaverlodge	26.7	0	-	43.6	Nov-24 05:00	22.1	W	39.2	Nov-24	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					42.5	Nov-24	
O ₃ (ppb)	82		Portable-Spirit River	23.0	0	-	38.4	Nov-02 15:00	21.9	WSW	33.6	Nov-01	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					37.7	Nov-01	
CO (ppm)	13		Henry Pirker	0.23	0	-	1.4	Nov-21 17:00	5.8	SSE	0.4	Nov-22	100.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.7	Nov-22	
THC (ppm)			Henry Pirker	2.02	-	-	3.4	Nov-23 11:00	5.7	WSW	2.6	Nov-23	97.6%
TRS (ppb)			Henry Pirker	0.3	-	-	1.1	Nov-29 17:00	4.3	WNW	0.5	Nov-21	100.0%
TRS (ppb)			Evergreen Park	0.5	-	-	2.0	Nov-15 08:00	4.3	W	1.3	Nov-15	100.0%
TRS (ppb)			Smoky Heights	0.4	-	-	1.1	Nov-09 20:00	3.5	S	0.6	Nov-17	100.0%
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	0.1	0	0	1.2	Nov-06 16:00	2.4	NE	0.3	Nov-06	99.6%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	4.0	0	0	31.9	Nov-20 23:00	5.2	WNW	9.0	Nov-21	99.4%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	3.7	0	0	28.8	Nov-01 09:00	29.4	W	9.0	Nov-21	98.9%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	3.7	0	0	54.8	Nov-12 14:00	9.1	NNE	7.1	Nov-16	99.4%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	2.8	0	0	25.5	Nov-30 01:00	6.2	NW	8.9	Nov-16	100.0%

PASZA Monthly Continuous Data Summary - continued

Nov-2007		Peace Airshed Zone Association					Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
RH (%)		Henry Pirker	72.2	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Beaverlodge	71.8	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Spirit River	0.0	0	0	0	0	0	0	0	0	0	0.0%
RH (%)		Valleyview	71.8	-	-	-	-	-	-	-	-	-	99.6%
SR (W/m ²)		Henry Pirker	31.0	-	-	-	-	-	-	-	-	-	99.0%
Temp (°C)		Henry Pirker	-4.0	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Evergreen Park	-3.5	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	-4.8	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Beaverlodge	-3.2	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Spirit River	0.0	0	0	0	0	0	0	0	0	0	0.0%
Temp (°C)		Valleyview	-4.0	-	-	-	-	-	-	-	-	-	99.6%
WSPD v (km/hr)		Henry Pirker	10.5	-	-	33.9	Nov-01 14:00	33.9	WSW	23.9	Nov-01		100.0%
WSPD v (km/hr)		Evergreen Park	7.4	-	-	29.9	Nov-01 14:00	29.9	W	23.2	Nov-01		99.0%
WSPD v (km/hr)		Smoky Heights	11.9	-	-	39.8	Nov-01 16:00	39.8	WSW	29.2	Nov-01		100.0%
WSPD v (km/hr)		Beaverlodge	7.7	-	-	31.2	Nov-01 14:00	31.2	W	22.0	Nov-01		100.0%
WSPD v (km/hr)		Portable-Spirit River	10.6	-	-	59.1	Nov-10 21:00	59.1	SW	40.7	Nov-26		90.0%
WSPD v (km/hr)		Valleyview	7.1	-	-	28.3	Nov-01 10:00	28.3	WNW	19.8	Nov-01		99.6%
WSPD s (km/hr)		Henry Pirker	11.1	-	-	34.1	Nov-01 14:00	34.1	WSW	24.2	Nov-01		100.0%
WSPD s (km/hr)		Evergreen Park	7.9	-	-	30.2	Nov-01 14:00	30.2	W	23.4	Nov-01		99.0%
WSPD s (km/hr)		Smoky Heights	12.2	-	-	39.9	Nov-01 16:00	39.9	WSW	29.6	Nov-01		100.0%
WSPD s (km/hr)		Beaverlodge	8.0	-	-	31.3	Nov-01 14:00	31.3	W	22.1	Nov-01		100.0%
WSPD s (km/hr)		Portable-Spirit River	19.6	-	-	118.2	Nov-10 21:00	118.2	SW	44.0	Nov-26		90.0%
WSPD s (km/hr)		Valleyview	7.3	-	-	28.5	Nov-01 10:00	28.5	WNW	20.1	Nov-01		99.6%
WDIR		Henry Pirker	W	-	-	-	-	-	-	-	-	-	100.0%
WDIR		Evergreen Park	W	-	-	-	-	-	-	-	-	-	99.0%
WDIR		Smoky Heights	S	-	-	-	-	-	-	-	-	-	100.0%
WDIR		Beaverlodge	WNW	-	-	-	-	-	-	-	-	-	100.0%
WDIR		Portable-Spirit River	SW	-	-	-	-	-	-	-	-	-	90.0%
WDIR		Valleyview	W	-	-	-	-	-	-	-	-	-	99.6%

Note: ^a the draft 24-hr Alberta Ambient Air Quality Objective

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on November 1st (TEOM), November 19th (SO₂, NO_x and TRS), November 22nd (O₃) and November 23rd (THC and CO). A second calibration was performed on the THC analyzer on November 26th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	Spans unstable for month due to failing UV lamp, lamp replaced in December.
CO	TEI	48C	No spans on November 29 th and 30 th due to cylinder pressure.
THC	TEI	51-CLT	On November 25 th thirteen hours were flagged as excessive baseline drift. On November 26 th there were two hours flagged invalid, and the remainder as maintenance – the pump was rebuilt, hydrogen cylinder was changed out and a second calibration was performed, all to address spans and baseline drifting.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Four (4) hours were flagged due to excessive baseline drift.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	Seven hours were flagged invalid due to negative spiking caused by power induced electronic drift.
WS/WD	Met One	010C/020C	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on November 15th (SO₂, TRS and TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	Span increase on TRS analyzer on November 5 th , 7 th , 8 th , 10 th , 11 th and 12 th - reason unknown.
PM _{2.5}	R&P	1400AB	Power bump resulted in one (1) hour of invalid data on November 20 th . Seven (7) hours were removed due to excessive baseline drift.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	Total of seven (7) hours wer flagged invalid due to flatlined – possible cups frozen.
WD	Met One	020C	Total of seven (7) hours wer flagged invalid due to flatlined – possible cups frozen.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on November 28th (SO₂, TRS and TEOM).

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	The TEOM had one (1) hour of invalid data due to power bump on November 13 th . Three (3) hours were removed 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 – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on November 9 (SO₂) November 13th (NO_x and SO₂) and November 14th (O₃). On November 13th the SO₂ analyzer was replaced with an SO₂ trace analyzer from Environment Canada.

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	On November 8 th and 9 th spans increased, a single point calibration was performed on the 9 th to check into the increased spans – reason was undetermined - however analyzer was changed out on the 13 th .
NO _x /NO/NO ₂	TEI	42C	Due to a mix up of inflow and outflow lines at time of calibration – spans went through dramatic high and low shifts that returned to normal on the 18 th .
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	No operational issues observed.
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 November 6th (SO₂ and NO_x) and 7th (O₃ and TRS). Wind system was replaced on November 7th.

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	The temperature & relative humidity sensors continue to be out of service – Alberta Environment reference # 192650.
RH	Gill	Met Pak 3	The temperature & relative humidity sensors continue to be out of service – Alberta Environment reference # 192650.
WS	Met One		Forty-four (44) hours of invalid data followed by twenty-six (26) hours flagged for maintenance – Gill ultrasonic wind system replaced with Met one
WD	Met One		Forty-four (44) hours of invalid data followed by twenty-six (26) hours flagged for maintenance – Gill ultrasonic wind system replaced with Met one

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on November 16th (SO₂ and H₂S). A power failure on November 15th resulted in three (3) hours of invalid data for all parameters and sensors.

Parameter	Make	Model	Notes
SO ₂	TEI	43i	Due to a new perm tube – spans continue to increase throughout the month. No other issues other than above noted power failure.
H ₂ S	TEI	43A	No operational issues observed other than above noted power failure.
AT	Gill	Met Pak 3	No operational issues observed other than above noted power failure.
RH	Gill	Met Pak 3	No operational issues observed other than above noted power failure.
WS	Gill	Met Pak 3	No operational issues observed other than above noted power failure.
WD	Gill	Met Pak 3	No operational issues observed other than above noted power failure.

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: November 1, 2007 to December 1, 2007

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:	675
Number of 1-hr Fair Readings:	1
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-Nov-07	18	18	18	17	17	N	14	14	14	16	17	17	18	18	N	N	N	N	N	N	13	13	14	15
2-Nov-07	15	14	14	14	13	N	10	6	9	7	8	10	13	13	14	12	7	7	17	17	17	17	16	
3-Nov-07	16	16	17	14	N	17	17	17	18	17	17	15	17	17	17	16	14	15	13	12	11	13	14	
4-Nov-07	15	15	14	N	13	14	12	11	14	17	18	18	18	19	18	17	12	7	5	7	6	6	5	6
5-Nov-07	4	5	N	5	5	6	6	5	6	7	8	8	8	9	11	10	10	11	11	10	10	7	6	7
6-Nov-07	7	N	4	5	5	4	4	4	10	10	5	11	13	13	12	7	8	11	14	9	9	9	9	8
7-Nov-07	N	9	9	9	9	7	4	4	3	4	5	6	5	4	6	5	7	6	4	8	9	7	4	N
8-Nov-07	5	8	9	10	11	10	9	7	4	6	8	10	11	12	14	12	5	5	5	6	7	8	N	9
9-Nov-07	10	11	11	11	12	12	11	11	9	9	7	8	8	7	6	4	5	5	6	8	7	N	7	6
10-Nov-07	6	3	3	3	4	4	4	3	2	2	3	3	7	7	14	13	12	13	15	15	N	14	10	15
11-Nov-07	14	14	15	16	14	15	9	5	6	6	6	9	12	15	13	10	6	7	6	N	7	8	7	8
12-Nov-07	7	6	8	9	11	12	12	13	12	12	10	10	10	11	14	15	14	7	N	9	13	13	11	10
13-Nov-07	12	13	14	14	14	14	14	9	7	7	9	9	11	12	13	13	14	N	12	12	14	14	15	14
14-Nov-07	14	14	14	16	14	13	9	7	7	8	13	16	16	16	15	13	N	7	8	11	12	14	15	15
15-Nov-07	14	13	13	12	12	11	10	5	5	7	8	6	7	16	12	N	6	6	5	5	5	6	5	5
16-Nov-07	6	4	4	4	3	3	5	5	6	6	5	11	9	7	N	13	9	9	8	7	9	6	5	4
17-Nov-07	7	13	15	14	14	13	8	6	7	7	6	10	11	N	11	10	5	5	6	6	8	10	10	9
18-Nov-07	8	8	7	7	12	11	10	9	12	13	11	12	N	15	16	13	11	10	12	8	9	6	8	6
19-Nov-07	6	5	3	3	4	6	6	6	6	8	7	N	N	N	N	4	7	6	6	5	6	6	5	4
20-Nov-07	4	5	8	11	10	N	10	7	6	6	5	11	14	14	14	12	7	12	15	13	14	15	24	26
21-Nov-07	21	14	12	12	N	9	9	8	9	9	7	6	6	6	8	5	7	11	7	14	13	13	7	8
22-Nov-07	6	13	9	N	13	6	7	8	7	8	5	4	5	15	15	9	9	10	13	9	11	10	9	8
23-Nov-07	6	5	6	6	6	N	8	8	14	14	7	15	18	11	8	8	10	11	11	10	N	16	9	7
24-Nov-07	8	N	14	12	18	N	19	19	19	17	16	17	17	16	16	15	15	15	14	12	14	14	15	15
25-Nov-07	15	15	15	15	N	12	9	7	6	6	10	11	12	12	12	13	13	13	16	16	16	15	16	15
26-Nov-07	16	16	15	N	15	15	14	13	13	14	14	N	14	N	13	12	12	12	12	13	12	12	10	11
27-Nov-07	10	11	11	13	12	N	10	6	6	9	8	8	7	7	8	7	7	7	7	6	6	11	12	13
28-Nov-07	13	13	13	13	13	N	11	9	7	9	12	13	11	7	6	9	8	8	8	7	8	6	8	7
29-Nov-07	7	5	7	6	N	7	7	8	9	8	8	7	10	10	8	6	9	15	14	8	6	6	6	6
30-Nov-07	6	7	13	N	15	10	6	8	8	7	10	11	14	16	15	14	15	15	16	16	16	17	17	17

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

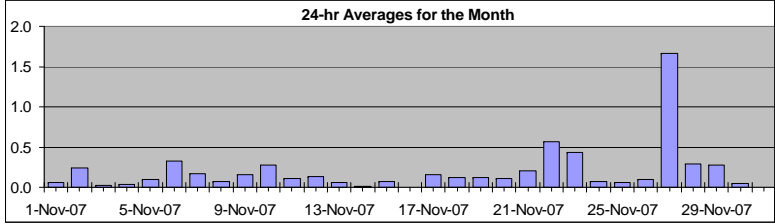
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	6.2 ppb 27-Nov 3:00 4:00
Maximum 24-hr Average:	1.7 ppb 27-Nov



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.1	0.2	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Nov-07	0	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
2-Nov-07	0	0	0	0	0	A	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1
3-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
4-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
5-Nov-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
6-Nov-07	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0.3	1.7
7-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	A	0.2	0.6	
8-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0.1	0.8	
9-Nov-07	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	
10-Nov-07	0	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.3	
11-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0.1	1.1		
12-Nov-07	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.9	
13-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
14-Nov-07	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	0.0	0.1	
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.3	
16-Nov-07	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	0.0	0.0	
17-Nov-07	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0.2	0.8	
18-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
19-Nov-07	0	0	0	0	0	0	0	1	1	0	A	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
20-Nov-07	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.6	
21-Nov-07	0	0	0	0	A	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0.2	1.2	
22-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1	1	0.6	1.6		
23-Nov-07	0	0	0	0	0	A	0	0	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	2.1	
24-Nov-07	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2	
25-Nov-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
26-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.5		
27-Nov-07	1	1	0	6	4	A	1	0	1	1	3	1	1	1	2	4	2	2	2	1	1	1	0	0	1.7	6.2		
28-Nov-07	0	0	0	1	1	A	1	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0.3	1.5	
29-Nov-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.3	1.8	
30-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
Hourly Avg	0.1	0.1	0.1	0.4	0.3	0.0	0.1	0.1	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1			
Hourly Max	1.3	1.2	1.3	6.2	3.7	0.2	0.6	0.5	2.1	1.6	3.2	1.5	1.3	1.4	1.9	4.2	2.0	2.0	1.8	1.3	1.3	1.6	1.0	1.1				

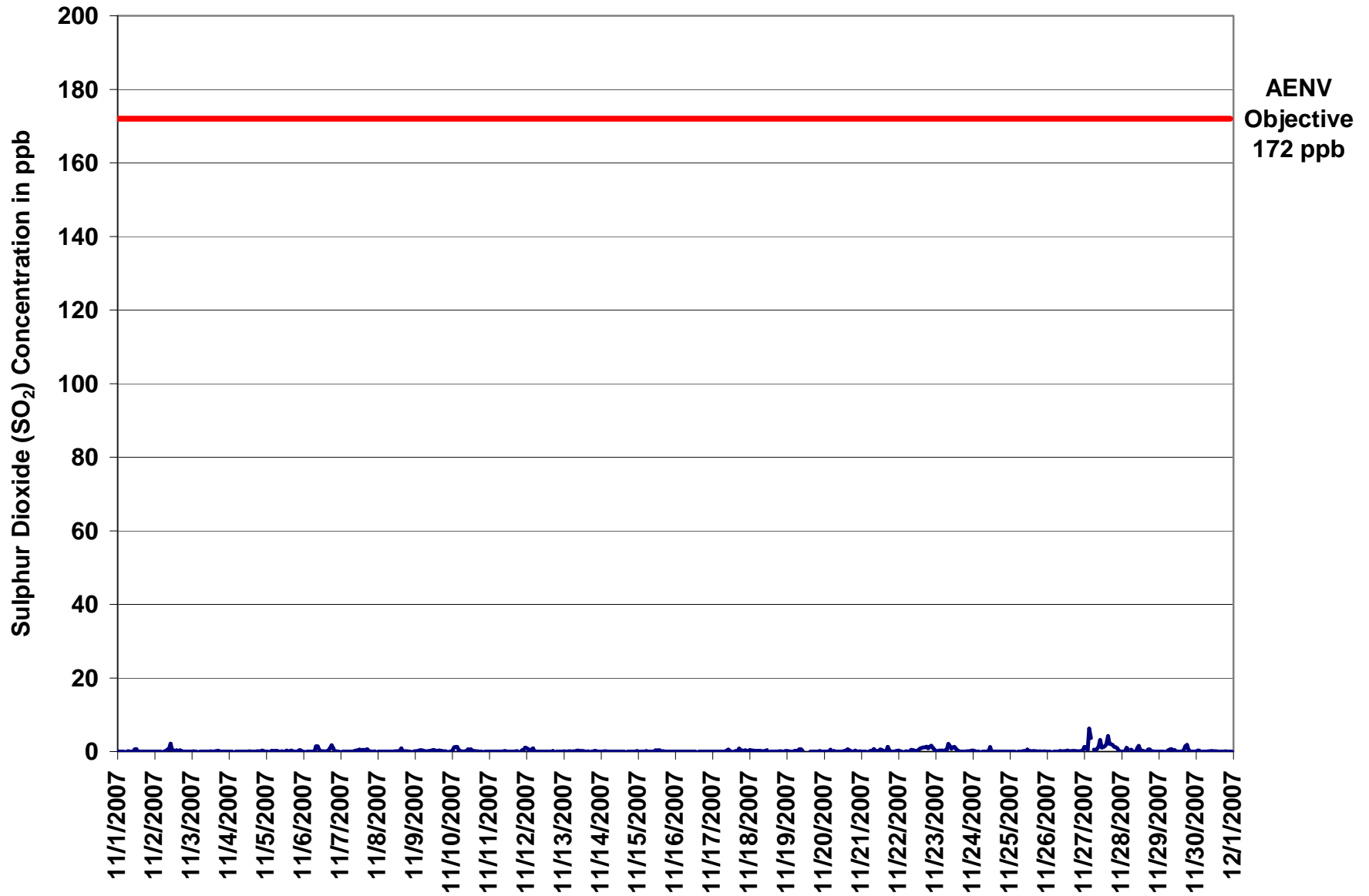


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

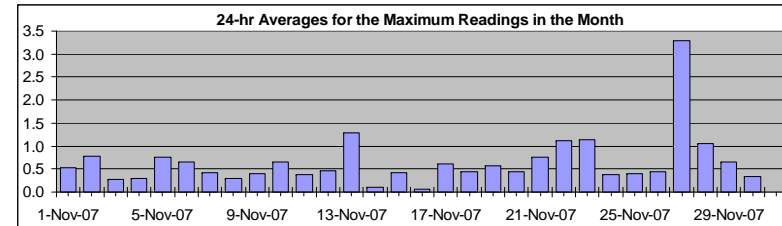
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	23.3	ppb	13-Nov	0:00 1:00
Maximum 24-hr Value:	3.3	ppb	27-Nov	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.0	2.2	0.6	0.3	0.1	0.0	0.0	0.6 ppb	0.3 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-07	0	0	0	0	0	A	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0.5	2.9
2-Nov-07	0	0	0	0	0	A	0	0	1	1	5	2	2	0	1	0	1	1	0	0	0	0	0	0	0.8	4.9
3-Nov-07	0	0	0	0	A	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0.3	1.1
4-Nov-07	0	0	0	A	0	0	0	0	1	0	0	1	0	1	0	0	1	1	1	1	0	1	1	1	0.3	0.7
5-Nov-07	1	1	A	1	1	1	1	1	1	0	3	0	0	1	0	1	3	3	0	0	0	1	1	0	0.8	3.0
6-Nov-07	0	A	0	0	0	0	0	1	2	2	2	0	0	0	0	1	1	1	3	2	0	0	0	0	0.7	3.2
7-Nov-07	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	A	0.4	1.1
8-Nov-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	1	1	0	0	0	A	0	0.3	2.2
9-Nov-07	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0	0.4	0.6
10-Nov-07	1	3	3	2	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0.7	3.1
11-Nov-07	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	A	0	1	1	2	0.4	1.8
12-Nov-07	2	2	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0.5	2.5
13-Nov-07	23	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	A	1	0	1	0	0	0	1.3	23.3
14-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.5
15-Nov-07	0	0	0	0	0	1	0	0	1	0	0	1	1	1	1	A	1	0	0	0	0	0	0	0	0.4	0.8
16-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0.1	0.6
17-Nov-07	0	0	0	0	0	0	0	0	0	1	2	1	0	A	0	0	0	4	1	1	1	1	1	1	0.6	4.2
18-Nov-07	1	1	1	1	0	0	0	0	0	0	0	2	A	0	0	0	0	0	0	0	0	0	0	1	0.4	2.0
19-Nov-07	0	0	1	0	1	1	1	1	3	1	1	A	C	C	A	0	1	0	0	0	0	0	0	0	0.6	2.6
20-Nov-07	0	0	0	1	1	A	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.4	1.3
21-Nov-07	0	0	0	0	A	1	1	1	5	1	1	1	1	1	1	1	1	2	1	0	0	1	1	1	0.8	5.1
22-Nov-07	1	0	1	A	0	1	1	1	4	1	1	1	1	1	1	1	2	2	2	1	2	2	2	1	1.1	4.1
23-Nov-07	1	1	1	1	1	A	1	1	8	3	1	2	2	1	1	1	1	0	0	1	1	1	1	1	1.1	8.3
24-Nov-07	1	1	0	1	0	A	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	1	0.4	2.6
25-Nov-07	0	0	0	0	A	0	0	0	2	1	0	1	1	2	0	1	0	1	0	0	0	1	0	0	0.4	2.1
26-Nov-07	0	0	0	A	0	0	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	2	0.4	1.6
27-Nov-07	2	2	1	19	7	A	1	1	5	5	7	1	1	2	3	5	4	4	2	1	2	1	1	0	3.3	18.9
28-Nov-07	0	0	0	3	2	A	3	0	2	1	2	3	1	1	1	0	1	3	1	0	0	0	1	0	1.1	3.0
29-Nov-07	0	0	0	1	A	0	0	1	1	0	0	0	0	0	0	2	2	3	1	1	0	0	0	0	0.6	3.1
30-Nov-07	0	1	1	A	0	0	1	1	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0.3	1.5
Hourly Avg	1.2	0.5	0.4	1.2	0.7	0.3	0.3	0.4	1.3	0.7	1.0	0.8	0.7	0.5	0.5	0.6	0.8	1.1	0.7	0.4	0.4	0.4	0.4	0.4		
Hourly Max	23.3	3.1	2.9	18.9	6.7	0.7	2.6	1.3	8.3	5.0	6.6	2.6	2.9	2.1	2.9	5.4	3.9	4.2	3.2	1.6	2.0	2.0	2.4	1.8		

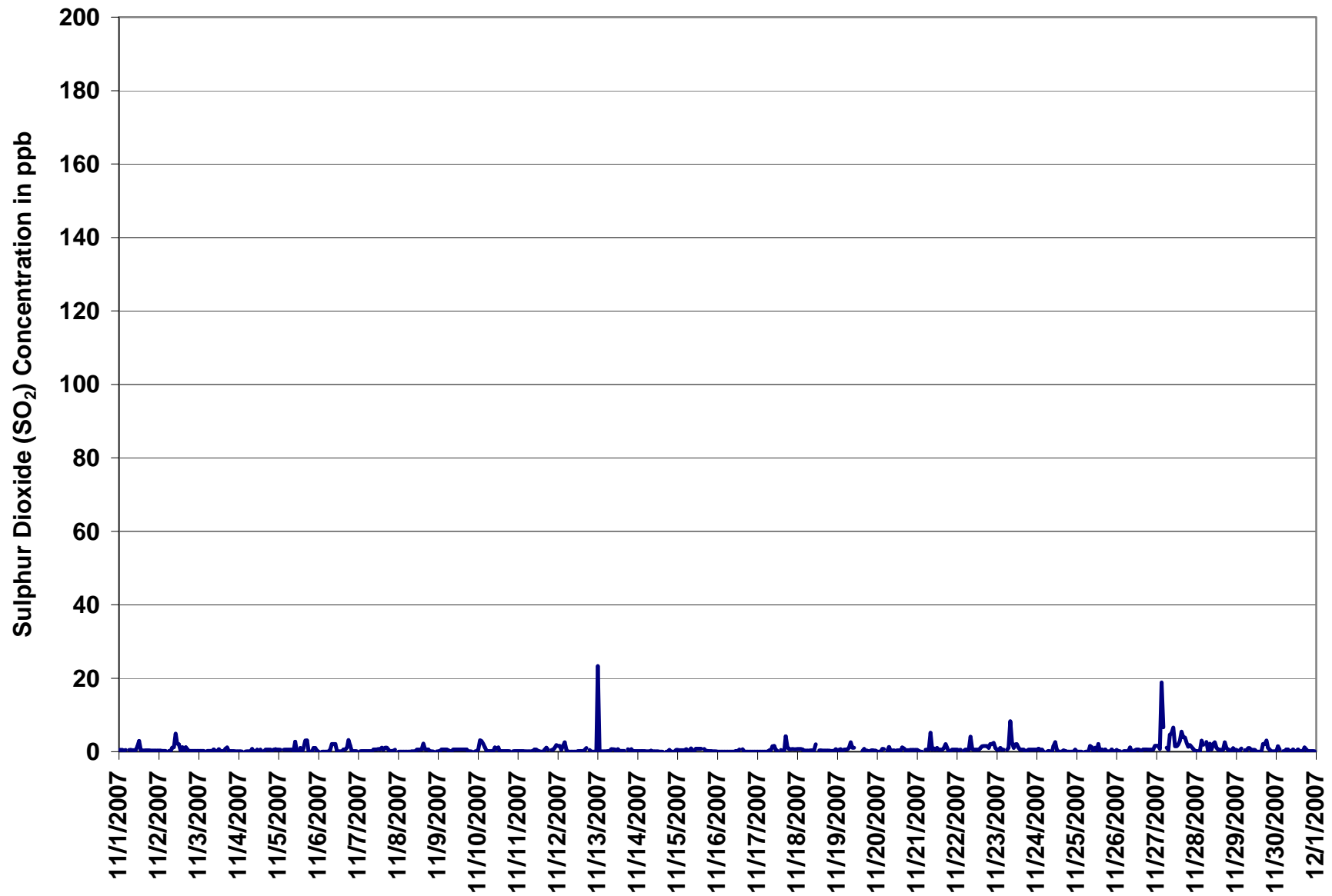
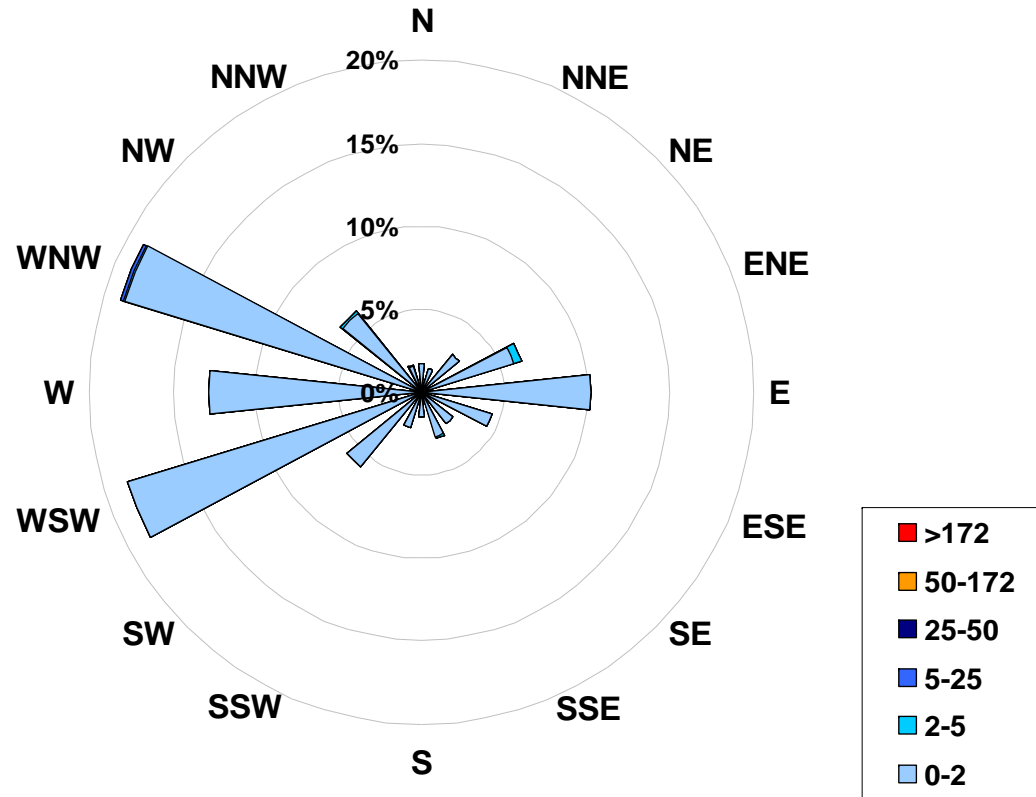


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		678
2	to 5		7
5	to 25		1
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			686

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

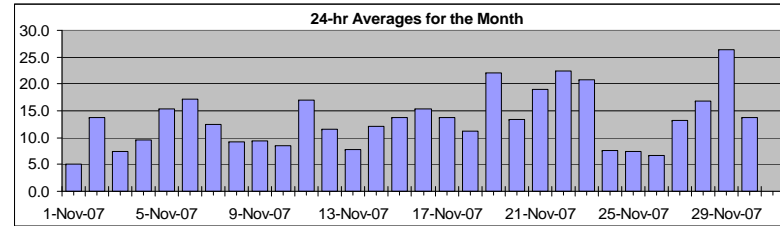
Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	43.2	ppb	29-Nov	17:00 18:00
Maximum 24-hr Average:	26.4	ppb	29-Nov	

AIC Time:	31 hrs		Operational Time:	685 hrs					
Calibration Time:	4 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	36.7	30.8	18.8	11.3	6.0	2.5	1.4	13.3 ppb	11.3 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-Nov-07	2	2	1	2	2	A	11	9	9	4	3	3	3	3	4	6	6	9	8	8	8	6	4	5.1	11.0	
2-Nov-07	5	6	6	7	6	A	16	26	37	31	20	20	13	11	9	16	31	31	5	5	5	4	5	4	13.8	36.9
3-Nov-07	3	4	2	5	A	4	4	4	4	5	6	8	7	6	8	9	12	15	12	15	13	11	8	6	7.4	14.7
4-Nov-07	4	4	4	A	4	3	6	7	4	3	2	2	2	1	1	3	13	21	22	24	25	26	20	18	9.5	26.0
5-Nov-07	18	20	A	21	22	24	24	23	16	13	10	9	10	10	7	11	12	12	11	13	11	17	24	14	15.4	24.4
6-Nov-07	12	A	16	11	9	10	12	18	31	35	20	5	4	6	10	23	33	36	37	31	12	10	8	7	17.2	36.6
7-Nov-07	A	6	5	5	5	6	13	15	15	15	16	14	15	12	15	14	16	19	19	13	10	14	14	A	12.4	19.0
8-Nov-07	5	2	2	2	1	2	4	8	14	13	6	6	8	12	9	11	21	20	17	16	14	11	A	7	9.2	20.8
9-Nov-07	6	5	6	6	5	5	6	8	10	9	11	10	8	9	11	17	19	20	12	7	9	A	7	8	9.4	19.9
10-Nov-07	10	13	10	9	6	5	6	6	9	10	13	10	9	9	7	10	9	8	5	4	A	8	14	5	8.5	13.9
11-Nov-07	6	6	4	3	6	5	16	21	24	25	26	15	11	5	10	15	25	28	25	A	20	32	31	33	17.0	32.6
12-Nov-07	31	18	13	11	9	7	8	5	7	7	10	10	11	11	13	11	13	29	A	17	7	7	5	2	11.5	31.3
13-Nov-07	2	1	1	1	1	1	2	14	30	28	16	12	7	6	6	6	7	A	10	9	6	6	5	5	7.8	29.8
14-Nov-07	5	5	4	4	8	10	18	28	24	23	9	5	6	7	9	14	A	31	20	15	11	8	7	6	12.0	30.6
15-Nov-07	7	7	7	8	8	10	11	23	20	12	12	21	21	23	14	A	16	17	15	17	13	11	13	13	13.8	23.1
16-Nov-07	13	14	15	14	11	14	17	16	15	14	14	17	17	15	A	18	16	18	17	17	19	17	12	15	15.4	19.3
17-Nov-07	10	4	3	6	6	8	19	25	29	28	19	8	6	A	6	6	15	21	21	19	17	17	13	11	13.8	29.3
18-Nov-07	14	15	13	10	4	8	6	11	7	6	10	10	A	5	3	7	14	14	10	19	14	20	15	24	11.2	24.0
19-Nov-07	25	22	13	13	17	26	27	27	23	21	18	A	C	C	C	C	30	27	24	23	23	23	21	18	22.1	29.6
20-Nov-07	17	19	9	5	6	A	9	14	16	18	20	7	3	3	3	8	20	23	18	20	20	18	16	15	13.4	22.8
21-Nov-07	14	13	14	14	A	17	19	21	21	17	14	14	26	24	21	23	31	38	30	10	8	9	21	16	19.0	38.3
22-Nov-07	23	7	14	A	8	19	18	20	31	29	21	16	10	4	5	18	36	38	38	36	36	36	31	20	22.4	38.3
23-Nov-07	19	16	18	20	18	A	21	19	23	27	28	36	31	25	17	20	21	18	17	17	7	9	21	30	20.7	35.7
24-Nov-07	33	15	12	14	4	A	4	3	3	6	7	6	4	6	6	8	5	6	7	9	6	5	3	2	7.5	33.0
25-Nov-07	2	2	2	2	A	9	15	18	24	25	8	4	4	4	5	5	6	6	6	6	5	5	4	4	7.5	25.5
26-Nov-07	3	3	3	A	3	3	6	8	8	6	6	6	6	6	6	8	10	10	9	8	9	7	11	8	6.6	11.2
27-Nov-07	10	8	6	4	5	A	9	19	25	11	14	14	25	21	16	17	16	16	16	18	22	5	3	2	13.2	25.1
28-Nov-07	2	2	2	2	2	A	6	10	16	12	6	4	9	21	27	29	34	35	34	28	30	26	25	23	16.7	35.1
29-Nov-07	20	16	16	27	A	28	29	33	36	31	24	21	13	13	21	23	37	43	42	35	26	24	26	24	26.4	43.2
30-Nov-07	24	27	17	A	5	16	26	34	33	25	18	16	10	4	7	10	9	9	5	5	6	4	4	3	13.7	33.9
Hourly Avg	11.9	9.8	8.2	8.6	6.9	10.4	12.9	16.4	18.9	17.0	13.6	11.3	10.7	10.1	9.9	13.0	18.3	21.2	17.7	15.9	14.3	13.7	13.6	11.9		
Hourly Max	33.0	27.2	18.3	26.7	22.1	27.8	29.2	33.9	36.9	35.0	27.6	35.7	31.0	24.7	27.1	28.7	36.8	43.2	41.9	36.5	36.2	36.2	31.2	32.6		

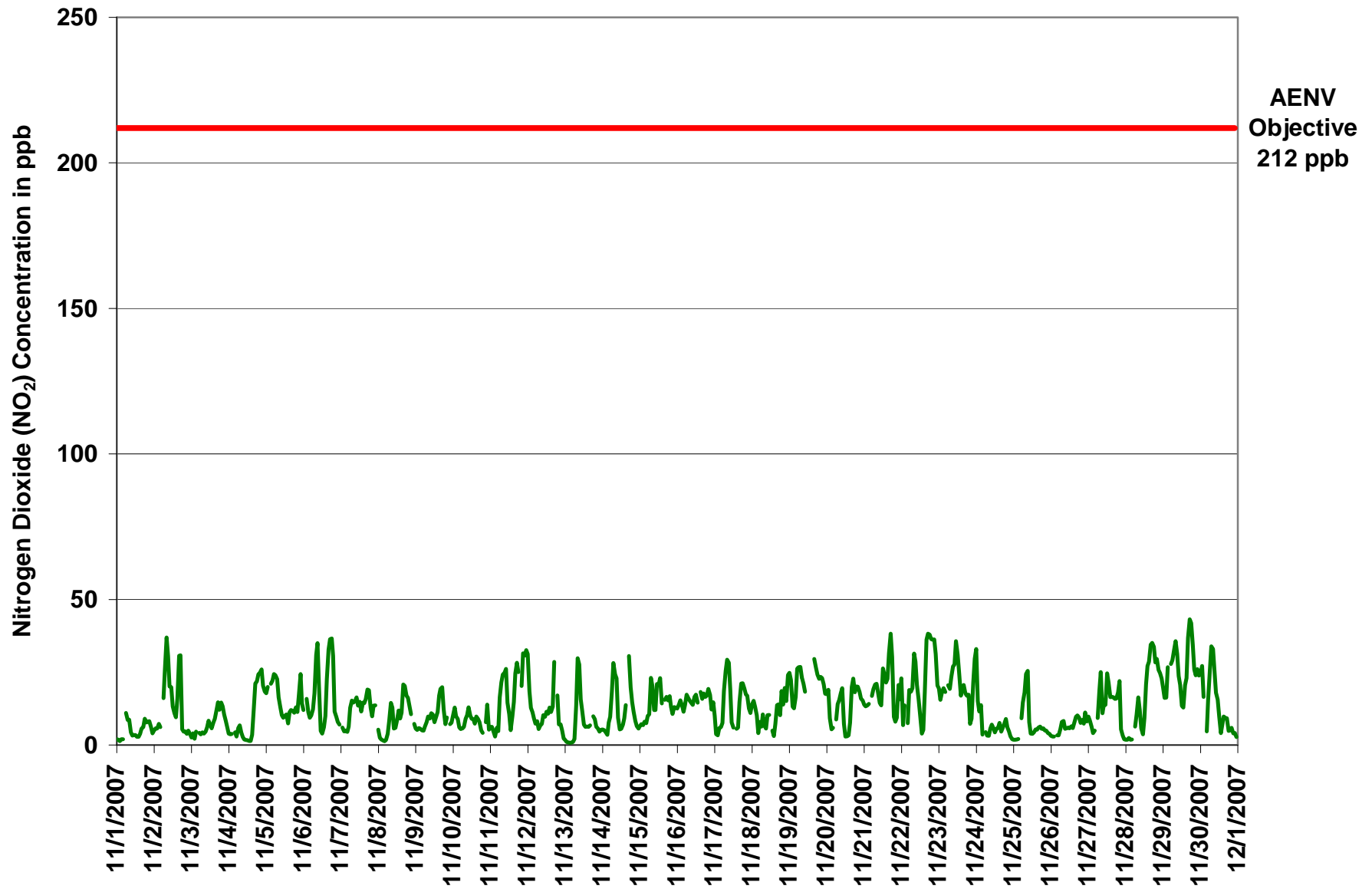


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

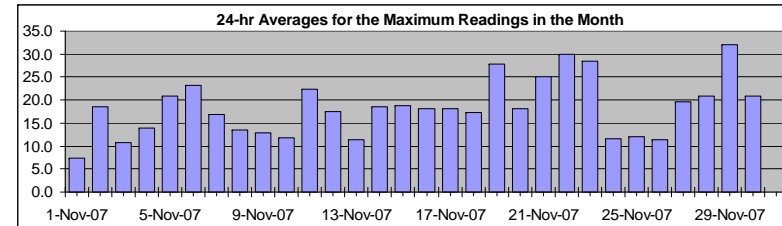
Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	49.4	ppb	27-Nov	10:00 11:00
Maximum 24-hr Value:	32.0	ppb	29-Nov	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.4	38.4	25.7	16.7	9.6	4.3	2.3	18.3 ppb	16.7 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-Nov-07	3	2	2	3	3	A	19	11	12	8	5	6	6	5	5	8	8	12	11	11	10	8	5	7.4	18.7	
2-Nov-07	7	8	8	10	10	A	25	36	40	39	28	26	17	13	12	22	37	40	15	7	6	8	8	18.7	40.4	
3-Nov-07	5	10	4	8	A	7	5	6	5	6	8	11	10	11	11	16	23	15	22	21	14	11	8	10.8	22.7	
4-Nov-07	6	7	7	A	9	5	10	9	6	5	3	3	3	3	2	10	20	28	31	28	28	29	40	14.0	39.8	
5-Nov-07	22	26	A	23	27	31	29	28	22	19	13	12	14	19	12	16	21	21	15	17	16	25	29	23	20.8	31.2
6-Nov-07	19	A	19	18	12	16	19	26	41	42	27	10	10	10	21	31	37	42	44	36	17	12	13	23	23.2	44.2
7-Nov-07	A	8	6	9	7	10	19	18	18	18	21	23	17	14	16	16	19	22	23	28	17	23	18	A	16.8	28.1
8-Nov-07	11	3	2	2	2	3	9	15	21	20	10	16	16	16	14	15	26	26	20	19	21	13	A	9	13.5	26.3
9-Nov-07	7	6	7	7	9	8	8	12	14	15	14	17	14	14	15	20	22	23	20	10	12	A	8	11	12.8	22.9
10-Nov-07	12	15	13	12	9	9	8	9	13	12	17	14	12	11	11	13	12	11	7	6	A	11	21	11	11.7	21.1
11-Nov-07	9	9	10	5	10	10	26	31	29	28	39	19	15	8	16	17	37	33	33	A	27	35	34	36	22.4	38.5
12-Nov-07	35	27	17	17	19	17	18	9	9	12	13	13	16	18	23	17	19	43	A	26	10	13	6	4	17.5	43.1
13-Nov-07	8	1	1	1	1	2	4	23	36	33	26	18	12	8	9	9	9	A	14	12	10	9	7	7	11.4	35.7
14-Nov-07	8	9	9	9	12	16	32	36	38	30	19	8	9	13	15	34	A	39	24	21	15	13	9	8	18.6	38.7
15-Nov-07	10	11	11	14	23	15	19	27	23	19	21	24	23	27	21	A	22	23	19	19	18	13	14	15	18.8	27.0
16-Nov-07	15	16	17	16	13	17	20	23	16	17	15	19	20	19	A	22	17	19	19	20	22	21	18	18	18.2	23.0
17-Nov-07	14	7	7	9	11	13	35	32	33	30	30	12	9	A	8	9	22	24	25	22	18	20	16	13	18.2	34.9
18-Nov-07	17	17	17	13	9	16	10	13	10	12	20	26	A	11	6	21	22	20	14	32	20	27	19	28	17.4	31.9
19-Nov-07	28	27	22	18	24	35	33	47	28	26	25	A	C	C	C	C	34	32	28	25	27	27	23	20	27.9	46.7
20-Nov-07	28	26	19	7	9	A	11	18	19	23	26	17	5	5	5	17	31	30	23	23	24	20	17	17	18.1	30.6
21-Nov-07	15	15	15	18	A	21	23	28	26	19	22	16	32	29	27	26	38	45	39	20	14	23	33	36	25.1	45.1
22-Nov-07	32	12	29	A	12	34	34	36	37	33	34	21	19	6	11	28	43	42	41	40	38	41	45	23	30.0	45.1
23-Nov-07	25	19	23	24	22	A	24	23	29	37	33	43	41	30	25	31	29	25	35	35	16	17	32	39	28.4	43.0
24-Nov-07	39	38	17	21	8	A	6	4	4	10	11	9	6	7	9	13	11	10	12	11	8	7	5	3	11.7	39.2
25-Nov-07	3	2	2	3	A	16	23	25	30	32	21	10	9	9	7	9	13	10	9	12	10	9	9	6	12.1	31.5
26-Nov-07	8	10	9	A	5	6	10	11	12	8	9	8	8	10	9	12	21	19	22	12	12	10	21	11	11.5	21.9
27-Nov-07	15	12	12	5	7	A	14	31	32	26	49	20	29	26	20	22	23	21	21	22	29	9	5	3	19.6	49.4
28-Nov-07	3	3	3	3	4	A	8	16	25	18	8	7	19	26	32	33	37	44	37	36	34	29	29	25	20.8	44.2
29-Nov-07	27	20	27	32	A	41	31	37	40	34	31	26	18	19	26	33	43	49	47	40	32	26	29	27	32.0	49.4
30-Nov-07	26	31	27	A	7	30	34	46	43	34	29	29	22	8	12	22	16	17	7	8	10	8	8	7	20.8	46.1
Hourly Avg	15.8	13.7	12.5	11.8	11.0	16.3	18.9	22.9	23.7	22.1	20.8	16.6	15.4	14.0	14.4	19.1	24.3	27.2	23.1	21.4	18.7	18.0	18.1	16.3		
Hourly Max	39.2	38.3	28.5	32.4	26.9	40.5	34.9	46.7	42.8	41.6	49.4	43.0	40.7	30.1	31.8	34.0	43.0	49.4	47.4	40.5	38.3	41.4	45.1	39.8		

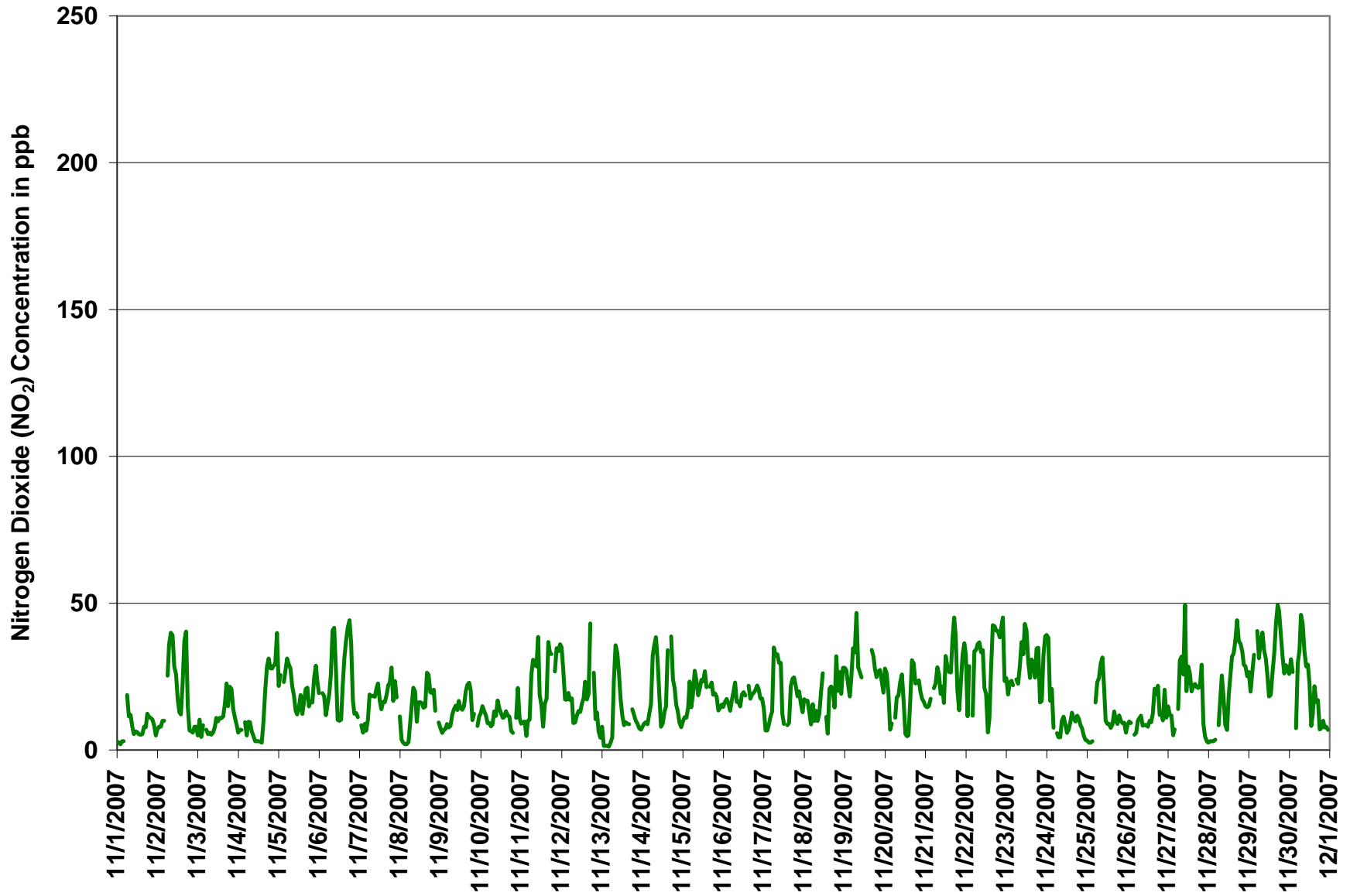
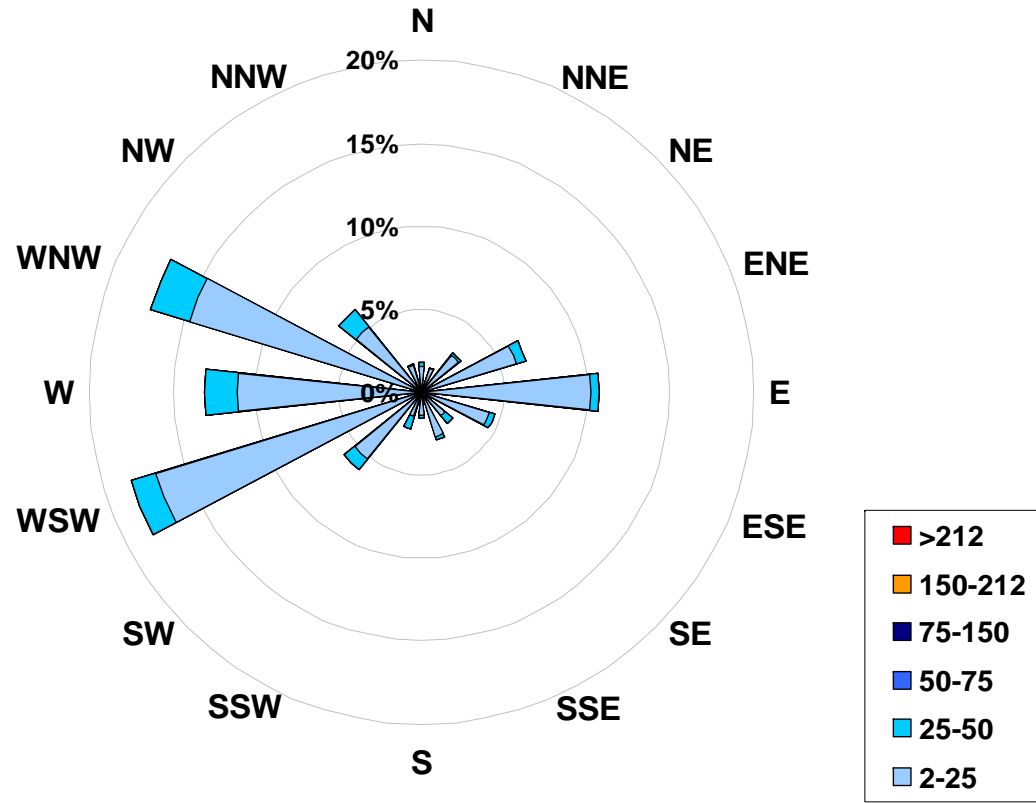


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for November 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	615	
25	to 50	44	
50	to 75	10	
75	to 150	16	
150	to 212	0	
	> 212	0	
Total Non-Zero Values			685

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

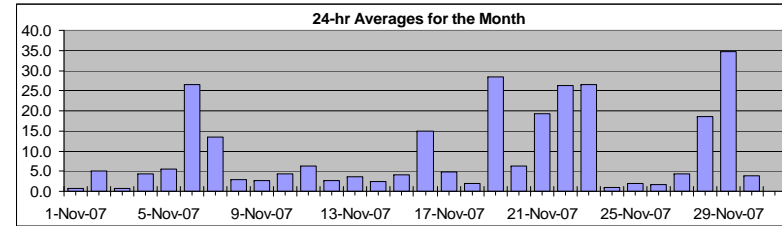
Nitric Oxide (NO)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	141.0	ppb	29-Nov	17:00 18:00
Maximum 24-hr Average:	34.8	ppb	29-Nov	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	100.0	43.4	8.1	2.0	0.7	0.1	0.0	9.2 ppb	2.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								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-Nov-07	0	0	0	0	0	A	1	1	2	1	1	2	2	1	1	1	1	1	1	0	0	0	0	0	0.8	1.7
2-Nov-07	0	0	0	0	0	A	2	6	40	30	4	4	2	2	2	3	9	10	1	1	1	0	0	0	5.1	40.1
3-Nov-07	0	0	0	0	A	0	0	1	1	1	1	2	1	1	2	1	1	0	0	0	0	0	0	0	0.6	1.5
4-Nov-07	0	0	0	A	0	0	1	1	1	1	1	1	1	0	0	1	2	3	10	15	14	31	16	3	4.3	31.0
5-Nov-07	1	7	A	19	24	13	10	11	6	5	4	4	4	3	1	2	2	1	1	1	1	7	1	5.6	23.5	
6-Nov-07	0	A	1	0	1	3	6	29	123	125	31	2	1	2	2	8	26	80	110	53	1	1	2	2	26.5	124.8
7-Nov-07	A	1	1	1	1	1	3	5	5	31	35	18	22	14	21	22	32	56	17	2	1	1	6	A	13.4	55.8
8-Nov-07	1	0	0	0	0	0	1	2	9	6	3	4	5	5	2	2	8	5	4	3	3	2	A	1	2.9	8.8
9-Nov-07	1	1	1	1	1	1	1	2	3	3	4	7	7	4	4	9	8	6	1	0	0	A	0	0	2.7	8.8
10-Nov-07	1	1	1	1	1	2	1	2	4	10	28	18	16	5	2	2	1	1	1	1	A	1	2	0	4.4	28.2
11-Nov-07	0	0	0	0	0	0	0	1	4	14	21	7	6	2	2	2	11	9	6	A	1	11	11	39	6.3	39.3
12-Nov-07	24	3	1	1	1	1	1	1	1	1	2	3	2	2	2	2	1	8	A	1	1	0	0	0	2.6	24.0
13-Nov-07	0	0	0	0	0	0	0	2	23	21	8	9	5	4	3	2	1	A	1	1	1	1	0	0	3.6	23.0
14-Nov-07	0	0	0	0	0	1	2	7	7	8	3	2	2	2	2	3	A	9	3	2	1	1	1	1	2.5	9.5
15-Nov-07	0	1	1	0	1	1	0	3	3	3	4	16	14	15	7	A	4	5	3	4	3	2	2	3	4.2	15.5
16-Nov-07	2	3	4	3	1	6	28	14	13	18	21	40	36	21	A	30	18	28	20	12	16	6	1	1	14.9	40.1
17-Nov-07	0	0	0	0	0	0	2	3	9	18	10	3	3	A	2	2	5	11	11	12	7	12	4	1	4.9	18.4
18-Nov-07	3	4	5	1	0	1	0	1	0	1	4	7	A	2	1	2	2	1	1	3	1	2	1	3	2.0	7.5
19-Nov-07	3	9	5	3	4	20	23	44	55	76	48	A	C	C	C	C	48	48	29	17	28	50	24	6	28.5	76.0
20-Nov-07	2	2	0	0	0	A	0	1	2	4	9	2	1	1	1	2	6	9	5	5	45	26	10	11	6.2	45.0
21-Nov-07	5	3	3	3	A	8	26	30	49	32	25	16	42	23	15	12	29	98	19	1	0	1	2	3	19.3	98.0
22-Nov-07	2	0	1	A	0	2	4	6	28	25	16	11	6	1	1	6	32	73	87	48	68	89	73	25	26.3	88.8
23-Nov-07	7	4	4	6	14	A	19	21	75	117	75	111	93	37	9	5	2	1	1	1	0	0	1	3	26.4	117.3
24-Nov-07	4	6	0	0	0	A	0	0	0	0	1	1	1	1	1	2	1	1	1	1	1	1	0	0	1.0	5.6
25-Nov-07	0	0	0	0	A	0	0	1	4	13	4	3	3	2	2	1	1	1	1	1	2	2	2	1	2.0	13.4
26-Nov-07	2	2	1	A	1	1	1	2	2	2	3	3	3	3	2	3	2	3	2	1	1	1	1	1	1.8	2.9
27-Nov-07	1	0	0	0	0	A	1	5	13	2	5	8	23	17	9	5	2	2	1	0	1	1	0	0	4.3	23.0
28-Nov-07	0	0	0	0	0	A	0	1	3	3	2	1	6	21	30	26	35	75	97	33	40	24	19	10	18.5	96.7
29-Nov-07	5	2	3	15	A	15	18	36	50	35	24	22	11	9	16	15	55	141	133	94	52	21	22	6	34.8	141.0
30-Nov-07	6	10	2	A	0	2	5	17	11	7	5	6	5	2	3	3	1	1	0	1	1	1	0	0	3.9	17.3
Hourly Avg	2.4	2.0	1.2	2.1	2.0	3.4	5.3	8.4	18.2	20.5	13.4	11.4	11.6	7.2	5.2	6.2	11.9	23.6	19.6	10.9	10.0	9.9	7.2	4.3		
Hourly Max	24.0	10.1	5.4	18.8	23.5	20.3	28.1	43.9	122.8	124.8	74.8	110.5	93.5	37.2	30.5	30.1	55.1	141.0	133.3	94.1	68.5	88.8	72.5	39.3		

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

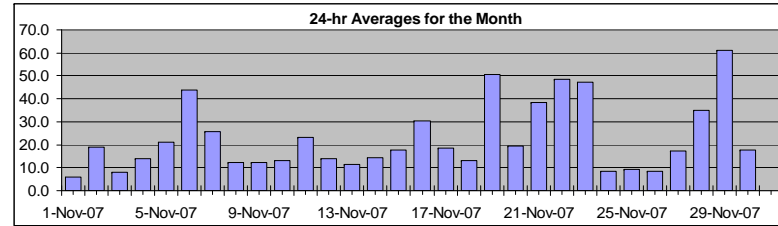
Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	184.0	ppb	29-Nov	17:00 18:00
Maximum 24-hr Average:	61.0	ppb	29-Nov	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	137.5	70.1	27.7	13.6	7.0	2.6	1.5	22.4 ppb	13.6 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-Nov-07	2	2	2	2	2	A	12	10	10	6	5	5	5	4	4	5	7	7	10	8	9	9	6	4		5.9	12.4	
2-Nov-07	5	6	6	7	6	A	18	31	77	60	24	24	15	13	11	19	40	41	6	5	5	4	5	4		19.0	77.0	
3-Nov-07	3	5	2	5	A	4	4	5	4	5	7	10	8	7	9	10	13	15	12	15	14	11	9	6		8.0	15.4	
4-Nov-07	4	4	4	A	5	3	6	7	5	3	3	2	2	2	2	4	15	24	32	40	39	57	36	21		13.9	57.0	
5-Nov-07	19	27	A	40	46	37	34	34	22	18	15	13	14	13	8	13	14	13	12	14	12	18	32	16		21.1	45.7	
6-Nov-07	13	A	17	12	10	13	19	47	153	159	51	7	5	8	12	31	59	117	146	84	13	11	10	9		43.7	159.4	
7-Nov-07	A	7	5	6	5	7	15	20	19	46	52	32	37	25	36	36	47	74	36	15	11	15	20	A		25.7	74.4	
8-Nov-07	6	2	2	1	1	2	4	10	23	19	9	10	14	17	11	13	29	25	21	20	17	12	A	8		12.1	28.9	
9-Nov-07	7	6	7	6	6	6	8	10	12	12	15	17	14	13	16	26	27	25	13	7	10	A	7	8		12.1	27.0	
10-Nov-07	11	14	11	10	7	7	7	8	13	20	41	28	25	14	9	11	10	9	6	5	A	8	15	6		12.9	41.0	
11-Nov-07	6	6	5	3	6	5	17	22	28	39	47	21	17	7	12	17	35	37	31	A	21	42	41	71		23.2	71.4	
12-Nov-07	55	21	13	12	10	9	9	6	7	8	12	12	14	12	15	13	14	36	A	18	7	7	5	2		13.8	54.9	
13-Nov-07	2	1	1	1	1	1	2	15	53	48	24	20	11	10	9	8	8	A	A	11	10	7	6	5	5		11.3	52.6
14-Nov-07	5	5	4	4	8	10	20	35	31	30	12	7	7	9	11	16	A	40	22	16	12	9	7	6		14.3	39.8	
15-Nov-07	7	8	8	8	8	11	11	26	24	15	16	36	35	38	21	A	20	21	18	21	17	12	16	16		17.9	38.2	
16-Nov-07	15	17	19	16	13	20	45	31	28	33	34	57	53	35	A	48	34	45	37	29	36	23	13	15		30.3	56.6	
17-Nov-07	10	4	3	6	6	8	20	28	38	47	28	11	9	A	7	8	19	32	32	31	24	28	16	12		18.6	46.6	
18-Nov-07	17	19	18	11	4	9	7	11	7	6	14	18	A	6	4	9	16	15	11	22	15	21	15	28		13.1	27.5	
19-Nov-07	28	32	18	15	21	47	50	71	79	97	66	A	C	C	C	C	77	75	53	40	52	73	45	24		50.6	96.8	
20-Nov-07	19	21	9	5	6	A	9	15	17	22	28	10	4	4	4	9	25	32	23	25	65	44	26	26		19.6	64.9	
21-Nov-07	18	16	16	17	A	25	46	51	70	49	39	29	68	47	36	35	60	136	50	11	9	10	23	18		38.2	136.2	
22-Nov-07	25	7	15	A	8	21	23	25	59	54	36	26	17	5	7	24	68	111	125	85	105	125	104	46		48.7	125.2	
23-Nov-07	26	20	22	26	33	A	40	40	99	144	102	146	124	62	26	25	23	19	18	18	7	9	22	33		47.2	146.2	
24-Nov-07	37	21	12	14	3	A	4	3	3	6	7	7	5	7	7	9	5	7	8	9	7	5	3	2		8.3	37.0	
25-Nov-07	2	2	2	2	A	10	15	19	29	39	12	7	7	6	7	7	7	7	7	7	7	6	7	6	5		9.5	38.9
26-Nov-07	5	5	4	A	4	4	7	10	10	7	8	9	9	9	8	10	12	13	11	9	9	8	13	9		8.4	12.9	
27-Nov-07	10	9	7	4	5	A	10	24	38	13	19	22	48	38	25	22	19	18	17	19	23	6	4	2		17.5	47.7	
28-Nov-07	2	2	3	2	2	A	7	11	19	15	7	5	15	42	58	54	69	110	130	61	69	50	44	33		35.2	130.3	
29-Nov-07	25	18	19	42	A	43	47	68	85	66	48	42	25	22	37	37	92	184	175	128	78	45	48	30		61.0	184.0	
30-Nov-07	30	37	18	A	5	17	31	51	44	32	23	22	15	6	10	13	11	10	5	6	7	4	4	3		17.6	51.2	
Hourly Avg	14.3	11.8	9.4	10.7	8.9	13.8	18.2	24.8	37.0	37.3	26.9	22.6	22.2	17.3	15.1	19.1	30.2	44.7	37.2	26.8	24.3	23.5	20.7	16.2				
Hourly Max	54.9	37.2	22.5	41.7	45.7	46.6	49.8	70.6	153.4	159.4	102.4	146.2	124.4	61.9	57.6	54.2	91.7	184.0	175.0	128.5	104.7	125.1	103.8	71.4				

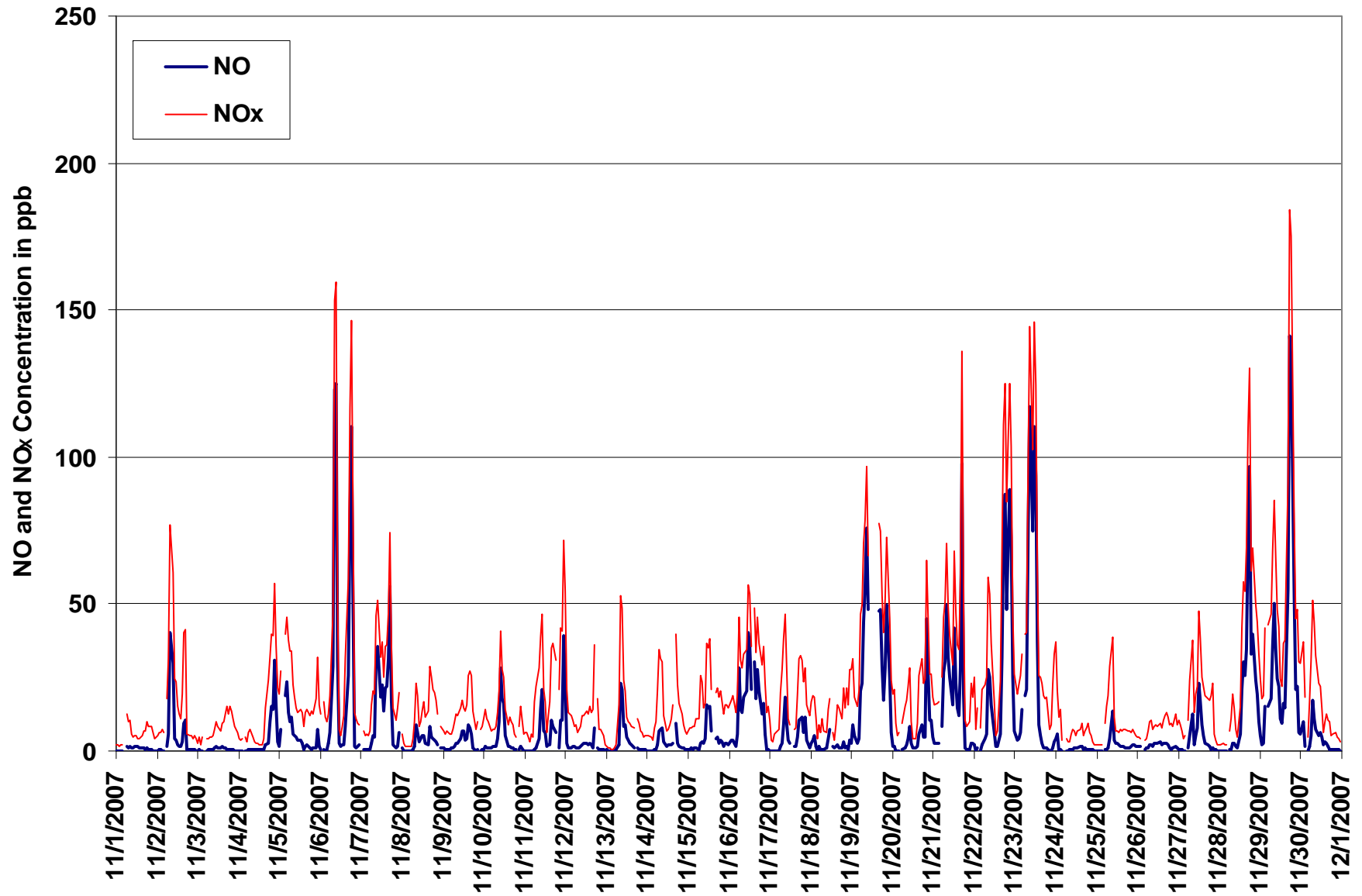


Figure 5. PASZA - Henry Pirkker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

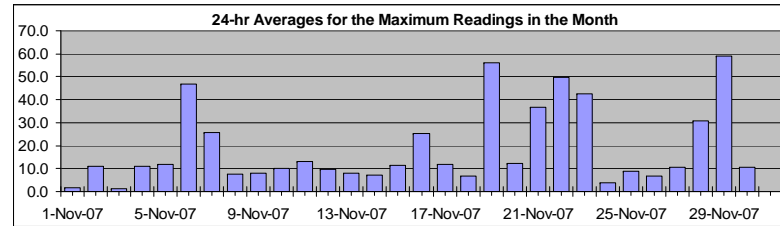
Nitric Oxide (NO)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	226.3	ppb	29-Nov	17:00 18:00
Maximum 24-hr Value:	59.1	ppb	29-Nov	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	158.2	73.3	19.5	7.0	2.0	0.5	0.3	18.3 ppb	7.0 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-Nov-07	0	0	0	0	1	A	2	2	3	2	2	4	3	3	2	2	1	1	1	1	1	1	1	1	1.6	3.9
2-Nov-07	0	1	1	0	1	A	3	21	58	70	13	8	4	3	3	6	18	37	1	1	1	1	1	1	11.0	69.7
3-Nov-07	1	1	0	1	A	0	1	1	1	1	1	2	2	2	2	1	1	0	1	1	3	0	0	1.4	3.3	
4-Nov-07	0	0	1	A	0	0	2	1	2	1	1	1	1	1	1	2	5	10	36	42	29	51	30	32	11.0	50.5
5-Nov-07	10	11	A	29	29	27	19	22	12	31	9	6	6	7	1	3	6	6	4	2	3	6	20	4	11.9	30.6
6-Nov-07	3	A	1	1	1	9	18	70	173	168	63	6	3	6	7	18	69	116	208	105	3	2	17	9	46.9	207.8
7-Nov-07	A	1	3	6	4	2	12	9	48	48	50	51	32	21	27	33	58	90	39	8	3	8	15	A	25.9	90.0
8-Nov-07	5	1	0	0	1	1	2	6	21	14	6	14	17	8	8	4	20	12	9	9	14	3	A	2	7.8	20.9
9-Nov-07	1	1	1	4	8	10	4	5	5	18	11	16	15	10	12	17	17	13	4	1	1	A	1	5	7.9	18.4
10-Nov-07	4	3	2	6	10	15	5	5	15	16	50	35	23	9	3	3	2	1	1	1	A	5	12	2	10.0	50.3
11-Nov-07	1	0	2	0	0	0	1	5	12	26	48	11	10	3	5	4	33	17	14	A	5	19	26	55	13.0	54.6
12-Nov-07	45	9	2	3	26	19	3	3	2	3	4	8	4	17	11	12	9	37	A	3	1	1	1	1	9.8	44.5
13-Nov-07	16	0	0	0	0	1	1	6	52	38	18	15	10	6	5	4	2	A	1	1	1	1	1	1	7.9	51.7
14-Nov-07	1	0	0	1	1	1	11	15	26	14	14	3	4	5	3	13	A	27	4	4	4	4	2	1	7.0	26.8
15-Nov-07	1	5	10	1	12	15	2	7	7	7	12	22	22	22	19	A	20	13	6	12	14	3	4	20	11.2	22.0
16-Nov-07	6	10	7	6	4	19	51	39	20	25	26	51	48	38	A	44	36	41	34	28	25	17	2	3	25.2	51.0
17-Nov-07	1	0	0	0	0	0	14	12	13	29	28	6	5	A	4	4	22	21	29	26	10	33	15	2	11.9	32.9
18-Nov-07	7	10	12	3	1	4	1	1	1	2	13	29	A	5	2	6	7	3	2	11	2	16	2	8	6.6	29.3
19-Nov-07	7	19	20	10	15	46	48	132	96	128	89	A	C	C	C	C	93	73	55	28	87	66	37	20	56.2	131.6
20-Nov-07	14	8	1	0	0	A	1	3	4	10	17	9	2	2	2	6	16	24	11	11	61	47	15	14	12.1	60.6
21-Nov-07	9	8	7	6	A	22	39	61	73	46	75	20	60	39	23	18	90	156	48	3	1	3	11	25	36.6	156.3
22-Nov-07	9	1	8	A	0	8	22	26	76	42	46	17	16	2	3	12	60	111	142	92	88	147	168	45	49.7	168.1
23-Nov-07	19	8	9	11	21	A	44	44	121	168	102	140	142	62	24	12	8	3	8	8	1	0	4	14	42.5	168.2
24-Nov-07	14	37	0	9	0	A	1	1	1	1	1	1	1	2	2	4	3	2	2	1	1	1	1	1	3.7	36.9
25-Nov-07	1	1	0	1	A	5	2	2	13	51	17	12	9	8	6	7	15	8	4	6	10	12	9	6	8.9	50.9
26-Nov-07	14	10	11	A	1	2	4	5	4	3	12	5	4	5	4	9	8	8	12	13	1	6	6	9	6.8	14.4
27-Nov-07	3	2	2	0	1	A	4	20	27	17	28	15	35	26	13	16	10	9	4	1	6	2	2	1	10.6	34.7
28-Nov-07	1	1	0	0	1	A	1	1	9	4	3	3	17	32	40	38	51	106	129	72	61	65	44	27	30.8	129.0
29-Nov-07	16	7	15	38	A	51	35	54	73	47	43	31	18	16	30	36	118	226	191	124	102	36	33	17	59.1	226.3
30-Nov-07	9	22	7	A	0	7	11	49	34	13	12	17	15	5	8	12	7	2	1	2	2	2	1	1	10.4	49.0
Hourly Avg	7.5	6.2	4.4	5.3	5.4	11.6	12.2	21.0	33.4	34.9	27.1	19.4	18.8	13.2	9.8	12.4	27.8	40.6	34.5	21.3	18.6	19.4	16.5	11.3		
Hourly Max	44.5	36.9	19.5	38.4	29.2	51.4	51.0	131.6	172.6	168.3	101.7	140.5	141.7	62.2	40.5	44.0	118.1	226.3	207.8	124.0	101.7	147.2	168.1	54.6		

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

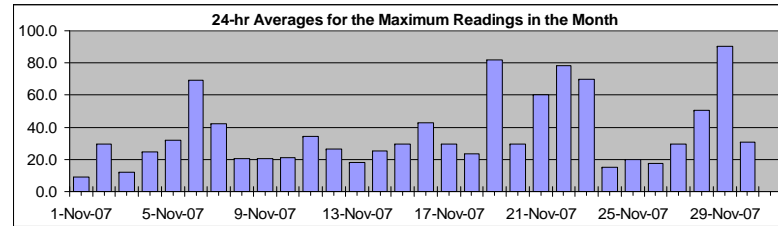
Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	275.0	ppb	29-Nov	17:00 18:00
Maximum 24-hr Value:	90.3	ppb	29-Nov	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	197.9	107.8	44.0	23.5	12.3	4.5	2.3	35.8 ppb	23.5 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-Nov-07	3	3	2	3	3	A	21	13	14	10	8	10	9	7	8	7	10	9	13	12	12	11	9	5	8.9	20.9
2-Nov-07	7	9	8	10	10	A	29	57	98	108	41	34	21	16	15	29	55	77	16	8	7	9	9	5	29.6	108.2
3-Nov-07	6	12	4	9	A	7	6	7	6	7	9	13	12	13	13	13	17	24	15	22	21	16	11	9	12.0	24.2
4-Nov-07	6	7	7	A	10	5	12	10	8	6	4	4	4	4	3	11	26	38	67	67	55	76	59	72	24.5	76.4
5-Nov-07	26	37	A	51	56	58	48	50	33	49	22	18	20	26	14	20	27	28	17	18	19	30	48	27	32.2	58.3
6-Nov-07	21	A	21	19	12	25	36	95	210	206	89	17	13	16	28	49	105	155	251	138	19	14	29	20	69.1	251.3
7-Nov-07	A	9	9	14	11	12	31	28	66	66	70	73	49	34	43	49	75	111	61	36	20	28	29	A	41.9	110.9
8-Nov-07	16	4	2	2	2	3	11	20	42	34	15	30	30	23	20	18	43	38	29	28	31	17	A	11	20.4	43.0
9-Nov-07	9	7	8	11	17	17	12	17	19	34	24	33	28	23	23	37	39	35	24	11	13	A	8	16	20.2	38.8
10-Nov-07	16	18	15	15	19	24	13	13	28	28	67	49	35	18	14	16	14	12	8	7	A	15	33	12	21.3	67.0
11-Nov-07	9	9	12	5	10	11	26	35	41	54	87	28	25	11	21	20	70	49	46	A	31	53	58	85	34.6	86.6
12-Nov-07	77	35	18	20	45	34	21	11	11	14	17	20	19	35	34	26	25	79	A	29	11	13	7	5	26.3	78.5
13-Nov-07	4	2	2	2	1	3	4	29	87	71	43	32	21	15	15	13	10	A	15	13	11	10	8	8	18.3	87.0
14-Nov-07	8	9	10	9	13	17	43	50	64	44	33	11	13	18	18	47	A	65	28	24	18	15	10	9	25.1	65.2
15-Nov-07	10	13	20	14	35	29	20	33	30	26	33	45	45	49	40	A	40	36	25	30	29	16	19	35	29.3	48.7
16-Nov-07	21	26	24	22	18	35	69	61	37	40	40	70	67	56	A	66	54	59	51	47	44	37	19	19	42.7	69.8
17-Nov-07	15	7	6	9	11	13	49	44	44	58	58	18	14	A	11	13	43	45	53	46	28	52	30	14	29.6	58.1
18-Nov-07	24	25	29	16	9	19	10	14	10	15	33	55	A	16	7	27	29	23	16	43	22	42	21	34	23.5	55.1
19-Nov-07	33	43	38	28	39	81	76	178	116	154	111	A	C	C	C	C	124	104	80	52	113	92	59	37	81.9	178.0
20-Nov-07	41	35	20	7	9	A	12	21	22	33	42	25	7	6	22	47	53	34	34	80	66	31	29	29.7	80.0	
21-Nov-07	23	22	21	22	A	42	60	89	97	64	95	36	87	67	49	42	122	197	87	23	14	26	42	60	60.4	197.4
22-Nov-07	42	12	36	A	12	40	56	62	112	76	80	37	35	8	13	40	99	149	173	131	123	183	209	68	78.1	209.4
23-Nov-07	43	24	32	31	42	A	69	66	149	200	134	183	180	92	48	43	37	27	43	43	17	17	36	52	70.0	200.2
24-Nov-07	52	73	17	29	7	A	6	5	5	10	12	10	7	8	12	16	13	12	12	12	9	8	6	4	14.9	72.6
25-Nov-07	3	3	3	3	A	19	24	27	42	82	28	22	18	17	13	15	26	17	12	17	19	21	16	12	20.0	81.6
26-Nov-07	23	20	20	A	6	7	12	14	16	11	19	12	12	15	13	17	29	27	33	23	14	16	26	19	17.5	33.2
27-Nov-07	16	14	14	5	8	A	16	49	57	43	78	35	62	52	33	35	29	31	24	24	35	11	5	3	29.5	77.8
28-Nov-07	3	3	3	3	4	A	9	17	35	22	11	10	36	58	72	70	87	145	164	106	93	94	71	51	50.7	164.2
29-Nov-07	42	27	42	70	A	92	64	92	110	79	73	57	36	35	56	68	159	275	238	162	132	60	62	44	90.3	275.0
30-Nov-07	33	53	34	A	8	36	45	94	76	47	40	47	37	13	19	34	20	19	8	9	12	9	9	8	30.8	94.1
Hourly Avg	21.8	19.3	16.4	16.6	16.1	27.4	30.3	43.4	56.1	56.3	47.2	35.6	33.7	26.9	23.7	30.8	50.8	66.8	56.8	42.0	36.3	36.5	33.8	26.8		
Hourly Max	77.4	72.6	41.7	70.3	55.6	91.8	75.9	178.0	210.2	206.3	134.3	182.9	180.3	92.2	71.7	69.6	159.2	275.0	251.3	162.5	132.1	183.2	209.4	85.5		

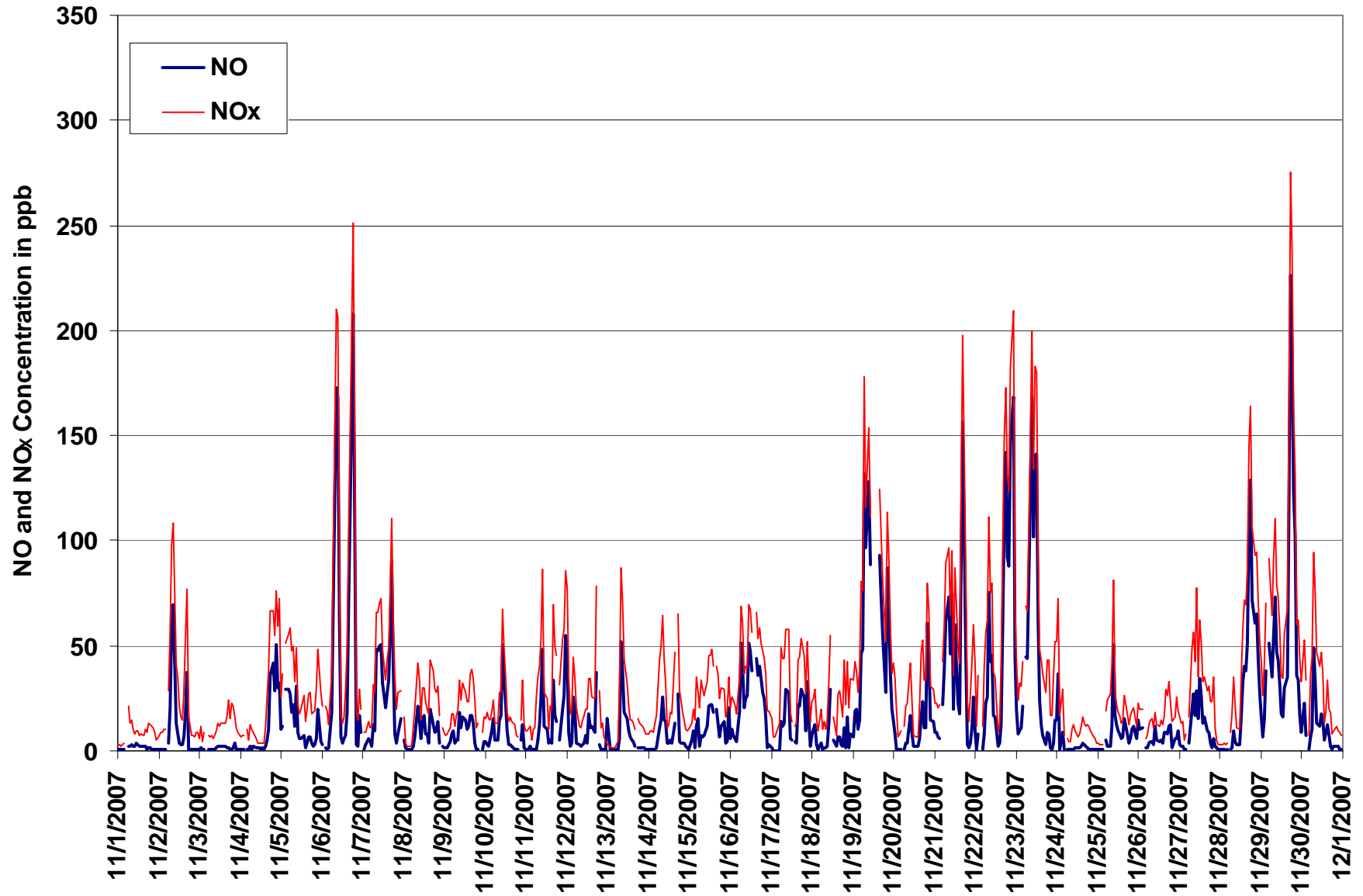


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

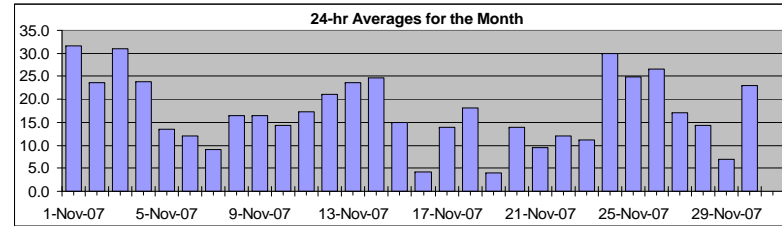
Ozone (O₃)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	38.3	ppb	24-Nov	7:00 8:00
Maximum 24-hr Average:	31.6	ppb	1-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	35.8	33.7	26.7	18.1	7.2	2.4	1.8	17.5 ppb	18.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Nov-07	36	36	35	34	34	A	27	29	28	32	34	35	35	36	35	34	32	31	26	27	26	26	28	31	31.6	36.0
2-Nov-07	30	28	28	27	26	A	21	12	5	7	16	19	25	26	29	24	11	11	34	34	33	33	31	32	23.5	34.0
3-Nov-07	33	31	34	29	A	34	35	35	35	34	33	31	33	35	33	33	31	28	30	25	23	23	26	28	31.0	35.3
4-Nov-07	30	29	27	A	27	28	23	21	29	34	36	36	37	38	37	35	23	14	10	6	4	4	8	13	23.8	37.5
5-Nov-07	9	4	A	3	3	4	5	6	11	14	16	16	16	19	23	20	21	22	22	20	20	13	6	14	13.4	22.8
6-Nov-07	14	A	8	10	11	9	7	3	4	4	9	23	27	26	24	13	5	3	4	5	17	18	17	15	12.0	26.7
7-Nov-07	A	18	18	17	17	15	7	5	4	3	3	7	6	6	5	4	3	2	6	17	19	14	3	A	9.1	18.5
8-Nov-07	10	15	18	19	21	21	17	14	8	11	17	19	23	24	27	23	10	10	11	11	13	16	A	18	16.4	27.5
9-Nov-07	20	22	21	23	23	24	23	22	19	17	15	15	17	15	13	8	5	5	13	17	15	A	14	12	16.4	24.1
10-Nov-07	9	5	6	7	8	8	8	7	5	4	4	5	6	8	29	25	24	26	30	31	A	27	20	29	14.4	30.6
11-Nov-07	28	28	29	31	28	30	18	10	6	7	9	18	24	30	25	20	11	7	10	A	14	5	5	3	17.3	31.2
12-Nov-07	4	12	16	18	21	25	23	26	24	23	20	19	19	23	27	31	28	13	A	19	26	25	23	20	21.1	30.7
13-Nov-07	23	27	28	29	29	29	28	17	5	7	17	19	22	24	26	27	27	A	24	24	27	28	29	28	23.7	29.0
14-Nov-07	28	28	29	32	28	26	18	11	15	16	27	31	32	32	30	26	A	9	17	22	25	28	30	29	24.7	32.4
15-Nov-07	27	26	25	23	24	21	19	7	7	15	16	11	12	13	17	A	13	11	10	9	11	11	8	7	15.0	27.2
16-Nov-07	8	6	4	4	6	3	2	3	2	3	5	5	5	5	A	2	2	2	2	2	2	5	10	9	4.2	10.4
17-Nov-07	14	26	31	29	28	25	16	8	4	4	11	20	22	A	23	20	10	4	4	3	4	3	5	7	13.9	30.8
18-Nov-07	5	4	3	6	24	21	21	18	24	26	21	24	A	30	31	27	21	19	24	15	19	11	16	6	18.1	31.3
19-Nov-07	4	2	6	6	6	2	2	2	2	3	5	A	8	11	8	8	4	2	2	2	2	2	2	4	4.1	10.7
20-Nov-07	8	7	17	21	21	A	20	15	13	12	11	22	28	28	28	25	13	7	9	6	3	3	3	3	13.9	27.7
21-Nov-07	4	5	4	5	A	3	2	2	2	4	7	11	10	13	13	10	5	3	6	27	27	26	14	17	9.5	27.0
22-Nov-07	12	25	19	A	26	13	15	16	3	C	C	C	A	30	29	18	4	2	2	2	3	3	2	2	11.9	30.2
23-Nov-07	4	4	5	2	2	A	2	2	4	3	4	5	5	8	16	17	19	21	22	21	33	31	19	11	11.3	32.5
24-Nov-07	7	24	27	23	35	A	37	38	38	34	33	34	35	32	31	29	30	31	29	25	27	29	30	30	30.0	38.3
25-Nov-07	30	30	30	30	A	24	18	14	7	8	20	23	24	24	25	26	26	26	31	31	32	31	31	31	24.9	31.7
26-Nov-07	31	31	31	A	30	29	27	25	25	27	28	28	28	27	26	25	23	23	24	25	24	25	21	23	26.5	31.4
27-Nov-07	21	21	23	25	24	A	20	12	7	19	17	17	10	12	15	14	15	15	14	11	8	22	24	26	17.0	26.2
28-Nov-07	27	26	25	26	26	A	23	18	14	18	23	26	21	14	10	8	3	2	2	2	2	3	4	5	14.3	26.8
29-Nov-07	7	8	10	3	A	5	3	3	3	5	11	15	20	21	16	12	4	3	4	2	1	2	2	3	7.0	20.8
30-Nov-07	4	3	17	A	29	20	12	7	7	13	20	22	27	33	30	27	29	30	32	32	31	34	33	35	22.9	34.9
Hourly Avg	16.8	18.3	19.9	18.6	21.5	18.2	16.7	13.5	12.0	14.1	16.7	19.8	20.6	22.1	23.5	20.3	15.7	13.1	15.7	16.3	17.0	17.3	16.0	17.0		
Hourly Max	35.7	35.8	35.0	34.2	35.3	33.7	37.0	38.3	37.7	34.5	35.7	35.8	36.9	37.5	36.8	34.8	31.8	30.9	33.9	34.0	33.1	33.7	33.5	34.9		

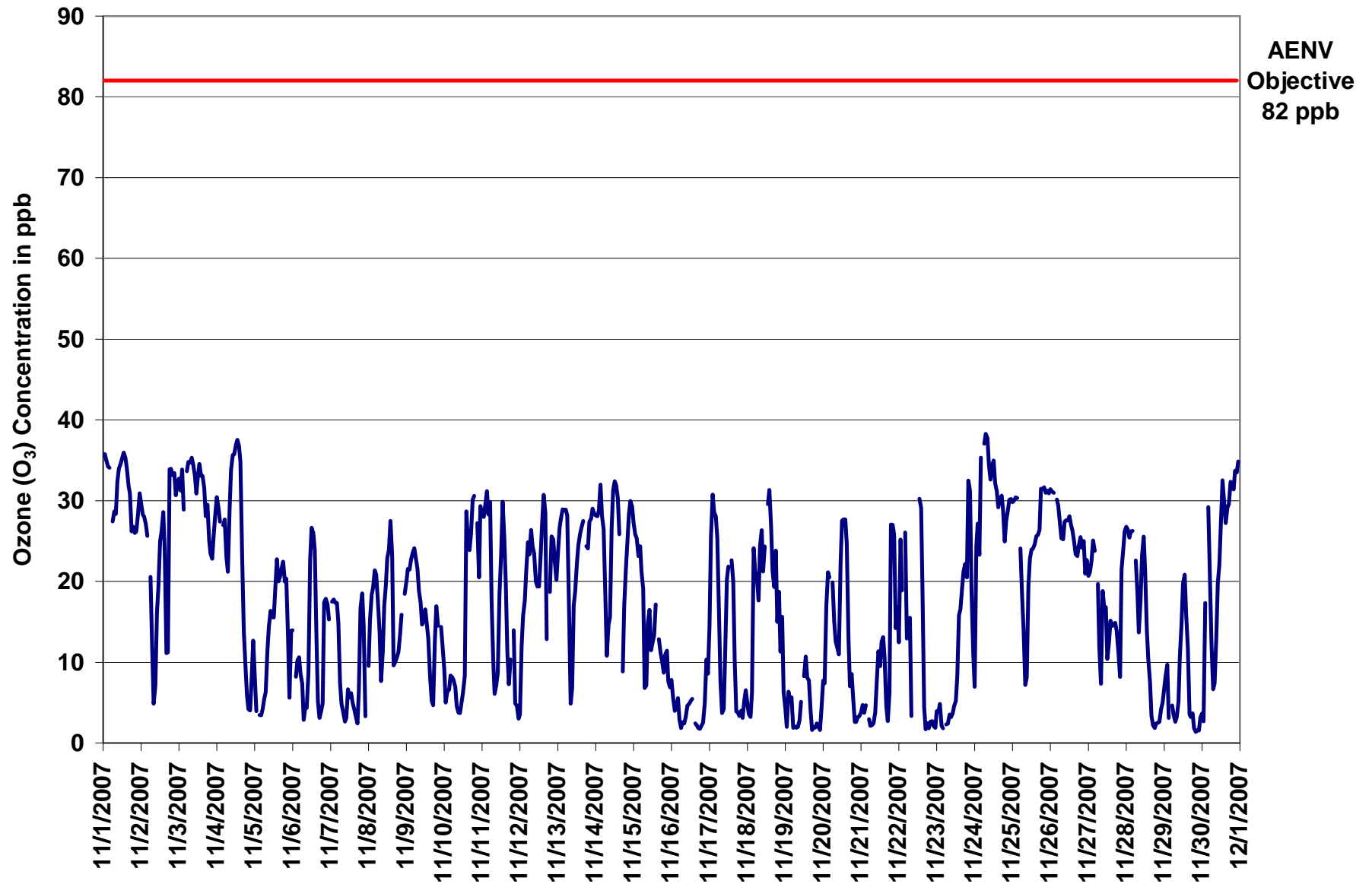


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

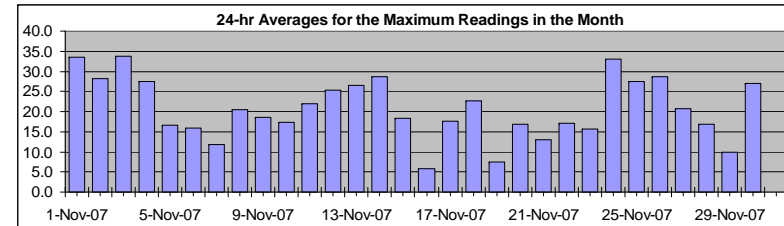
Ozone (O₃)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	40.1	ppb	8-Nov	14:00 15:00
Maximum 24-hr Value:	33.8	ppb	3-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.3	35.8	29.8	22.6	11.7	3.7	2.5	20.8 ppb	22.6 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-Nov-07	36	36	36	36	35	A	31	31	31	34	35	37	38	38	37	36	35	33	30	29	28	29	30	33	33.6	37.7
2-Nov-07	31	31	31	30	29	A	29	25	5	13	24	24	29	28	31	30	19	31	38	35	35	33	34	34	28.3	38.0
3-Nov-07	34	34	35	32	A	35	36	36	36	36	35	33	36	38	36	36	36	32	33	29	29	27	29	30	33.8	37.9
4-Nov-07	32	32	32	A	31	30	26	24	34	35	37	37	38	39	38	38	30	24	17	11	7	5	18	16	27.4	38.7
5-Nov-07	12	5	A	4	4	6	7	9	17	16	18	18	18	24	25	25	26	25	26	24	24	20	11	18	16.6	26.0
6-Nov-07	18	A	13	13	13	12	12	4	5	5	17	26	29	32	33	22	10	4	5	15	19	20	21	17	15.9	32.8
7-Nov-07	A	19	19	19	18	17	10	10	4	3	4	9	7	7	7	5	5	3	19	22	25	21	5	A	11.8	25.5
8-Nov-07	14	19	19	21	23	22	20	18	13	15	20	22	29	30	40	30	18	15	14	15	16	18	A	20	20.4	40.1
9-Nov-07	21	22	22	23	25	25	24	24	22	20	17	17	19	18	15	10	8	10	17	18	17	A	17	14	18.6	25.2
10-Nov-07	12	7	8	8	10	10	9	8	6	5	5	6	8	18	38	30	26	30	31	32	A	30	29	32	17.4	37.8
11-Nov-07	31	31	32	33	32	32	28	15	8	11	19	24	30	32	30	22	22	14	18	A	19	10	10	4	22.0	32.9
12-Nov-07	8	18	20	20	27	29	27	28	27	26	23	22	23	26	33	35	35	23	A	25	28	30	26	21	25.3	35.3
13-Nov-07	28	28	29	29	29	30	30	25	12	12	23	22	25	27	28	28	29	A	26	27	30	30	31	30	26.5	30.7
14-Nov-07	31	32	32	35	31	30	25	16	21	23	31	34	35	35	35	33	A	16	21	24	28	31	31	31	28.7	35.2
15-Nov-07	30	28	27	27	27	24	25	12	14	19	21	13	14	17	21	A	17	15	13	12	13	13	9	8	18.3	29.8
16-Nov-07	9	9	6	6	7	5	3	3	3	4	7	6	6	7	A	3	3	2	3	4	4	8	14	14	5.9	14.1
17-Nov-07	19	30	33	32	33	27	26	13	7	6	16	26	24	A	24	23	19	7	5	5	5	5	8	8	17.5	33.3
18-Nov-07	9	5	5	12	27	26	23	22	28	29	28	31	A	32	33	33	27	24	27	28	25	14	19	14	22.6	33.1
19-Nov-07	10	5	15	15	13	3	3	4	3	4	8	A	13	13	11	13	8	2	3	4	6	3	3	11	7.5	14.7
20-Nov-07	11	13	21	22	22	A	22	18	16	17	15	27	29	29	30	28	23	12	11	7	3	3	4	4	16.9	29.8
21-Nov-07	5	6	5	7	A	4	3	3	3	6	10	15	15	15	17	14	9	4	16	31	30	30	25	25	12.9	30.9
22-Nov-07	25	31	27	A	30	25	24	26	6	C	C	C	A	32	31	28	16	3	4	3	4	4	4	3	17.1	31.7
23-Nov-07	9	8	10	4	2	A	4	4	7	5	4	5	6	11	20	27	29	26	29	26	37	38	27	24	15.7	38.2
24-Nov-07	14	36	30	30	38	A	38	39	39	37	35	36	37	34	33	32	34	34	33	28	30	30	31	31	33.1	39.4
25-Nov-07	30	30	31	31	A	29	23	17	13	15	22	25	25	26	27	28	29	28	35	34	34	33	33	33	27.5	34.9
26-Nov-07	33	33	32	A	31	31	30	28	28	29	29	29	30	29	28	27	27	26	27	28	27	27	25	25	28.6	32.5
27-Nov-07	23	24	25	27	26	A	21	18	14	22	21	21	13	16	18	18	20	19	18	14	21	23	27	27	20.7	27.0
28-Nov-07	27	27	26	27	27	A	24	23	20	22	26	27	26	17	15	10	6	4	2	6	8	5	7	8	16.9	27.5
29-Nov-07	12	11	14	7	A	7	5	3	5	9	13	20	22	23	20	17	8	6	8	3	2	2	2	5	9.8	22.8
30-Nov-07	5	5	24	A	30	29	21	15	12	19	24	32	33	35	33	31	32	35	34	34	33	36	35	36	27.1	36.4
Hourly Avg	20.0	21.2	22.8	21.2	23.9	21.2	20.3	17.4	15.4	17.2	20.3	23.0	23.4	25.1	27.1	24.6	20.9	17.6	19.5	19.8	20.2	19.9	19.4	19.9		
Hourly Max	36.2	36.2	35.7	35.7	38.3	35.4	38.4	39.4	39.1	37.5	36.9	37.3	38.3	38.7	40.1	38.3	36.4	34.6	38.0	35.2	37.4	38.2	35.4	36.4		

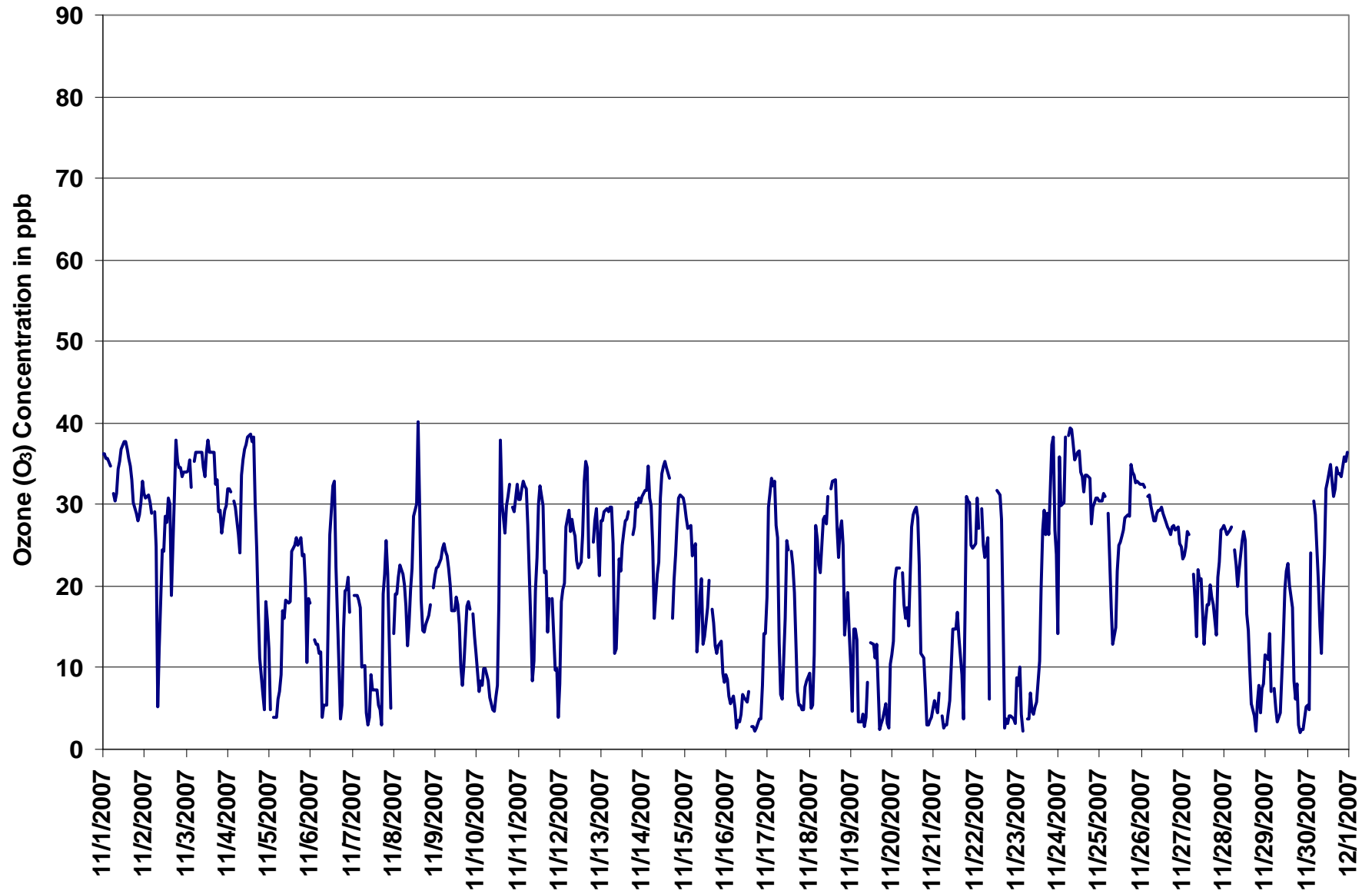
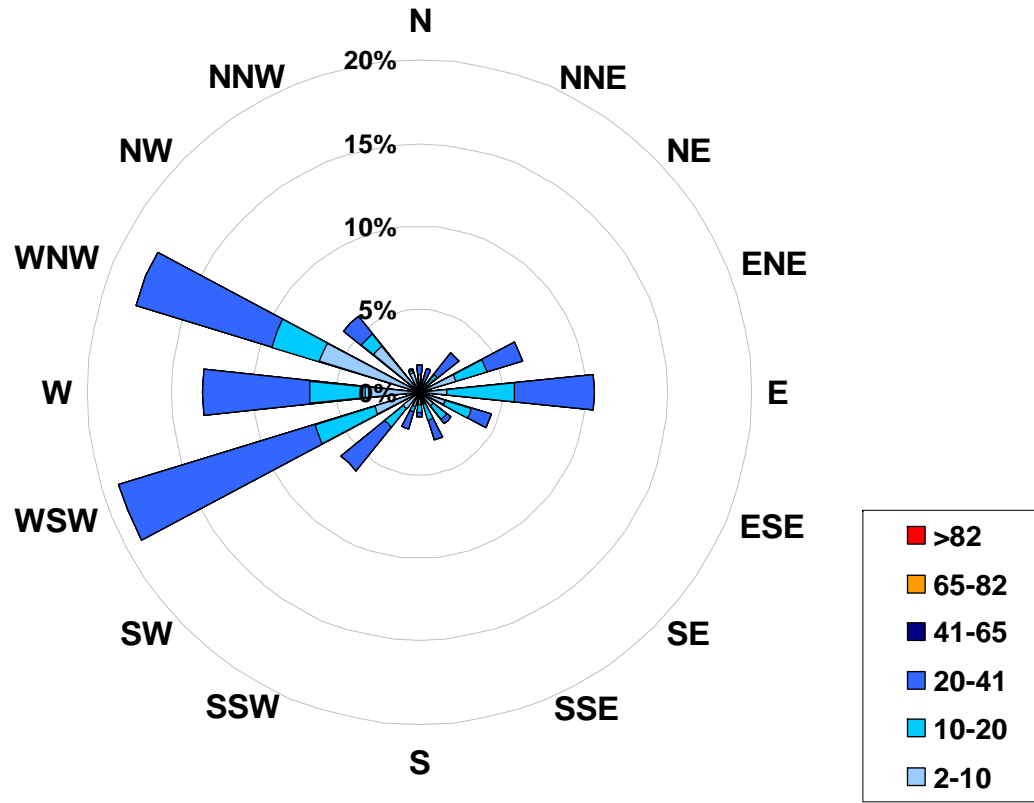


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for November 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range			Frequency (hrs)
2.0	<	10	214
10	to	20	161
20	to	41	310
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			685

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

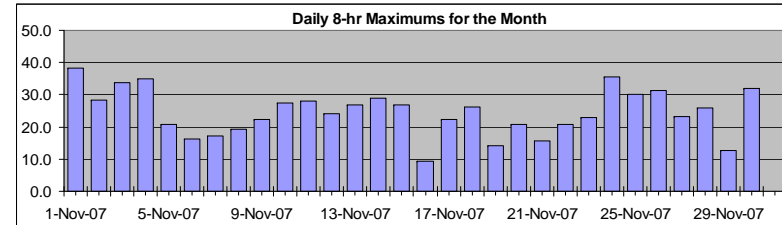
Monitoring Dates: November 1, 2007 to December 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	38.4	ppb	1-Nov	0:00 1:00

Percentile	99	95	75	50	25	5	1
	35.5	32.4	25.1	17.3	10.0	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 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	Daily Maximum
1-Nov-07	38	38	37	37	36	35	34	33	32	31	31	31	32	32	33	34	34	34	33	32	31	30	29	28	38.4
2-Nov-07	28	28	28	28	28	28	27	24	21	18	16	15	15	16	17	19	20	20	22	24	25	26	26	27	28.3
3-Nov-07	30	33	33	32	32	32	32	33	33	34	34	34	34	34	34	33	33	32	32	31	30	28	27	27	33.9
4-Nov-07	27	27	27	27	27	28	28	27	26	27	28	29	30	32	33	35	34	32	29	25	21	17	13	10	35.0
5-Nov-07	8	7	7	6	6	6	6	5	5	7	8	10	11	13	15	17	18	19	20	20	21	20	18	17	20.8
6-Nov-07	16	16	14	12	11	10	10	9	7	7	7	9	11	13	15	16	16	16	16	13	12	11	10	11	16.4
7-Nov-07	11	13	15	17	17	17	15	14	13	11	9	8	6	5	5	5	5	5	5	6	8	9	9	9	17.2
8-Nov-07	10	12	14	14	15	15	17	17	17	16	16	16	16	17	18	19	19	19	18	17	16	15	13	13	19.4
9-Nov-07	14	16	17	19	21	22	22	22	22	22	21	20	19	18	16	15	13	12	11	12	11	11	11	11	22.2
10-Nov-07	12	12	11	10	9	9	8	7	7	7	6	6	6	6	8	11	13	16	19	22	25	27	26	27	27.4
11-Nov-07	27	28	28	28	28	28	28	25	23	20	17	16	15	15	16	17	18	18	18	18	17	13	10	8	28.1
12-Nov-07	7	7	8	9	10	13	15	18	21	22	23	23	23	22	23	23	24	23	23	23	24	24	23	22	24.1
13-Nov-07	21	23	24	25	25	26	27	26	24	21	20	19	18	17	17	18	21	23	24	25	26	26	27	27	26.9
14-Nov-07	27	27	28	29	29	29	27	25	23	22	22	21	22	23	24	26	28	27	25	24	23	22	22	23	28.8
15-Nov-07	23	25	27	27	27	26	24	22	19	18	17	15	14	13	12	13	14	14	13	12	12	12	10	10	26.7
16-Nov-07	9	9	8	7	7	6	5	4	4	3	3	3	3	4	4	4	4	4	3	3	3	3	4	4	9.3
17-Nov-07	6	9	12	16	19	21	22	22	21	18	16	15	14	12	13	15	16	16	15	12	10	9	7	5	22.2
18-Nov-07	4	4	4	5	7	9	11	13	15	18	20	22	22	23	25	26	26	25	25	24	23	21	19	16	26.3
19-Nov-07	14	12	10	9	7	6	4	4	3	4	3	3	3	5	6	6	7	6	6	6	5	4	3	2	14.3
20-Nov-07	3	4	6	8	10	11	14	16	16	17	16	16	17	18	19	21	21	20	20	18	15	11	8	6	20.7
21-Nov-07	5	4	4	4	4	4	4	3	3	3	4	5	5	6	8	9	9	9	9	11	13	15	15	16	15.5
22-Nov-07	17	19	21	20	20	18	18	18	17	N	N	N	N	N	N	N	N	N	N	13	11	8	5	2	20.9
23-Nov-07	2	3	3	3	3	3	3	3	3	3	3	4	4	6	8	10	12	14	16	20	22	23	22	22	22.8
24-Nov-07	21	21	22	22	22	21	24	28	32	33	34	36	36	35	34	33	32	32	31	30	29	29	29	29	35.7
25-Nov-07	29	29	29	30	30	29	28	25	22	19	17	16	17	17	18	19	22	24	26	27	28	28	29	30	30.0
26-Nov-07	31	31	31	31	31	31	30	29	28	28	27	27	27	27	27	27	27	26	26	25	25	25	24	24	31.3
27-Nov-07	23	23	23	23	23	22	22	21	19	18	18	16	15	14	14	14	15	14	14	13	13	14	15	17	23.9
28-Nov-07	18	20	21	23	25	26	26	25	23	21	21	21	20	20	18	17	15	13	11	8	6	4	3	3	25.9
29-Nov-07	3	4	5	5	6	6	6	6	5	5	5	6	8	10	12	13	13	13	12	10	8	5	4	2	12.8
30-Nov-07	3	2	4	4	8	11	13	13	14	15	16	16	16	18	20	22	25	27	29	30	30	31	31	32	32.1

Hourly Max 38.4 37.9 37.3 36.5 35.8 35.5 34.1 33.0 33.2 33.7 34.1 35.7 35.6 35.2 34.5 35.0 34.3 34.0 33.0 32.0 30.9 30.6 31.1 32.1

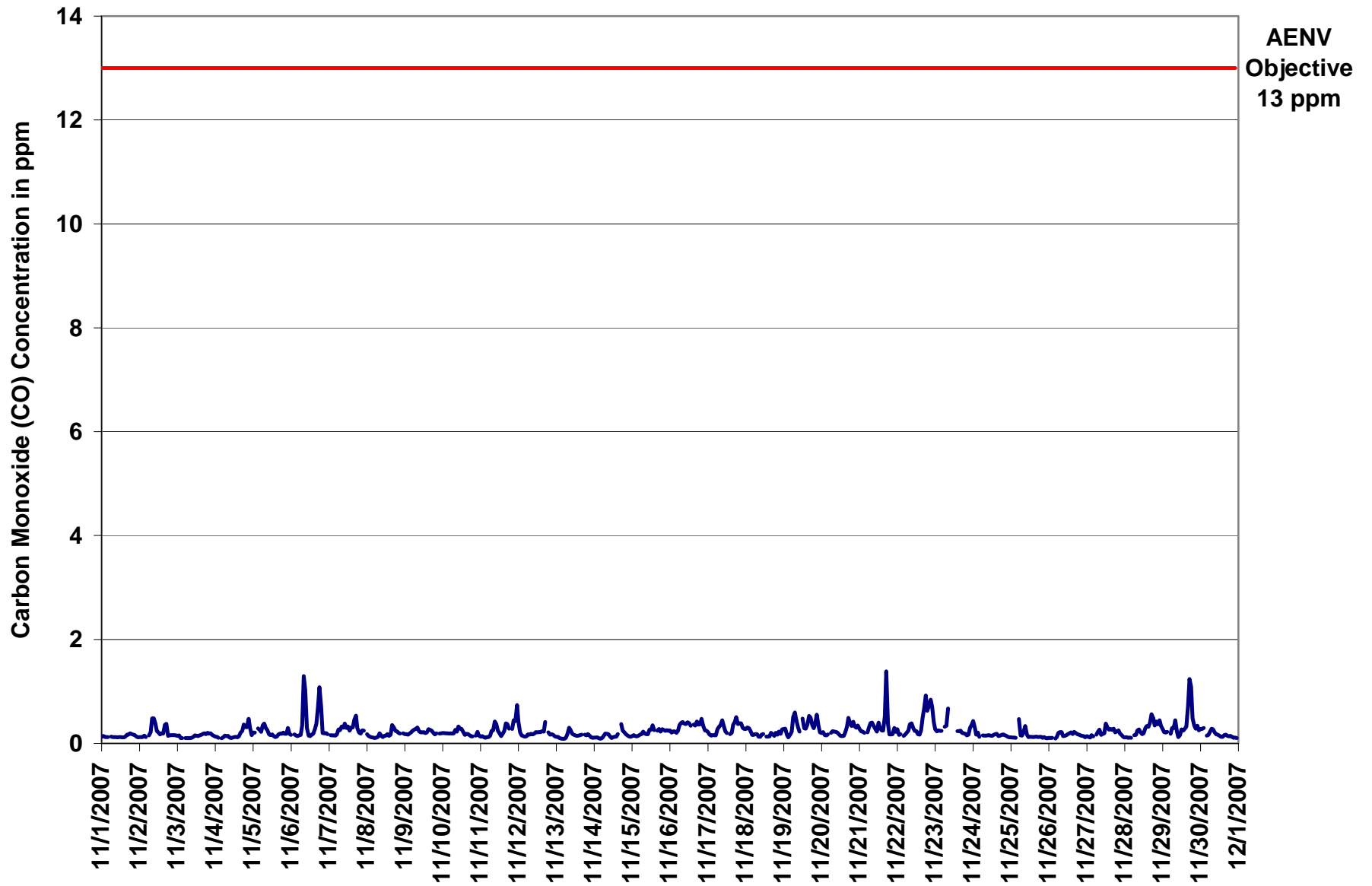


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

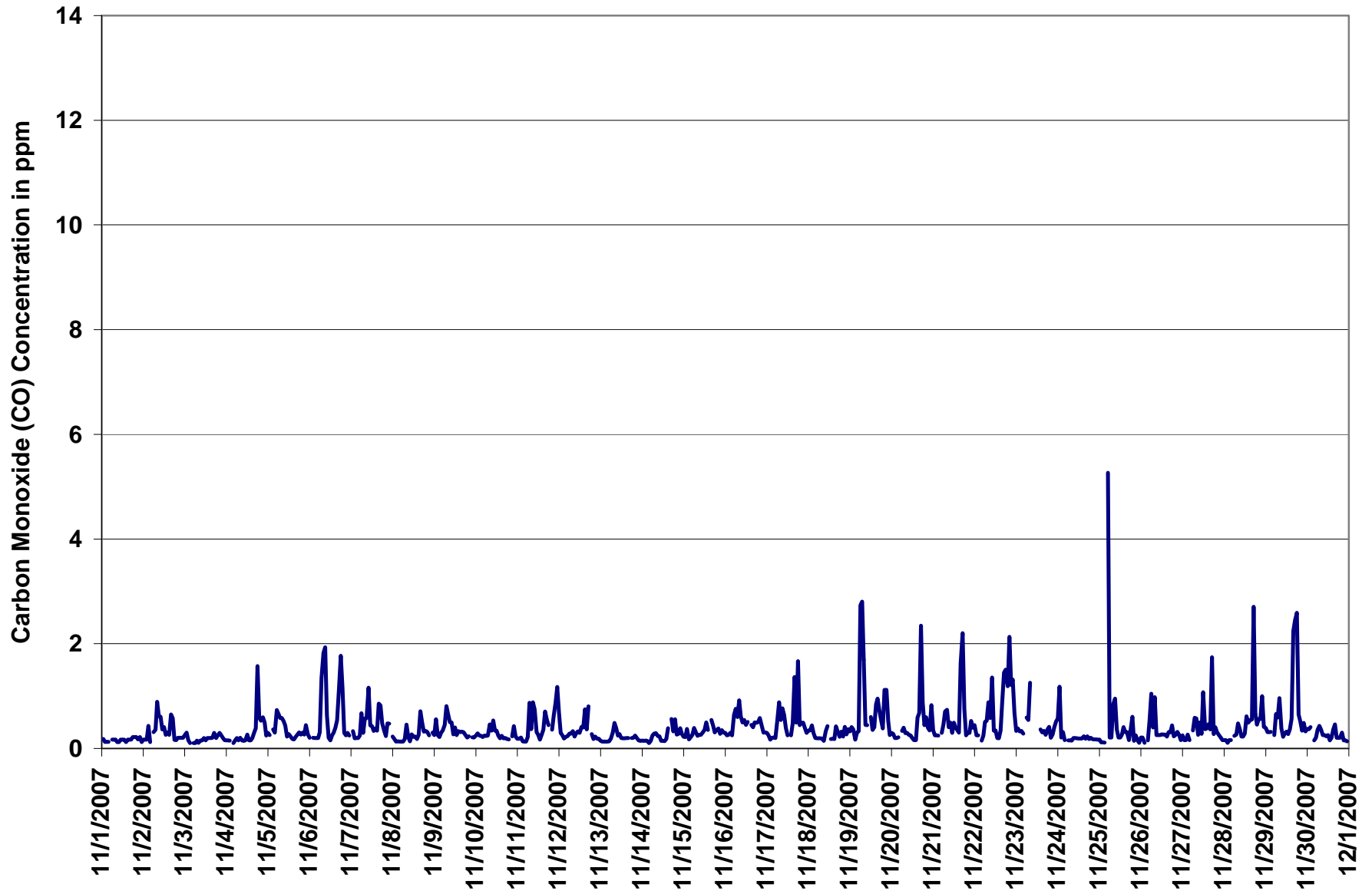
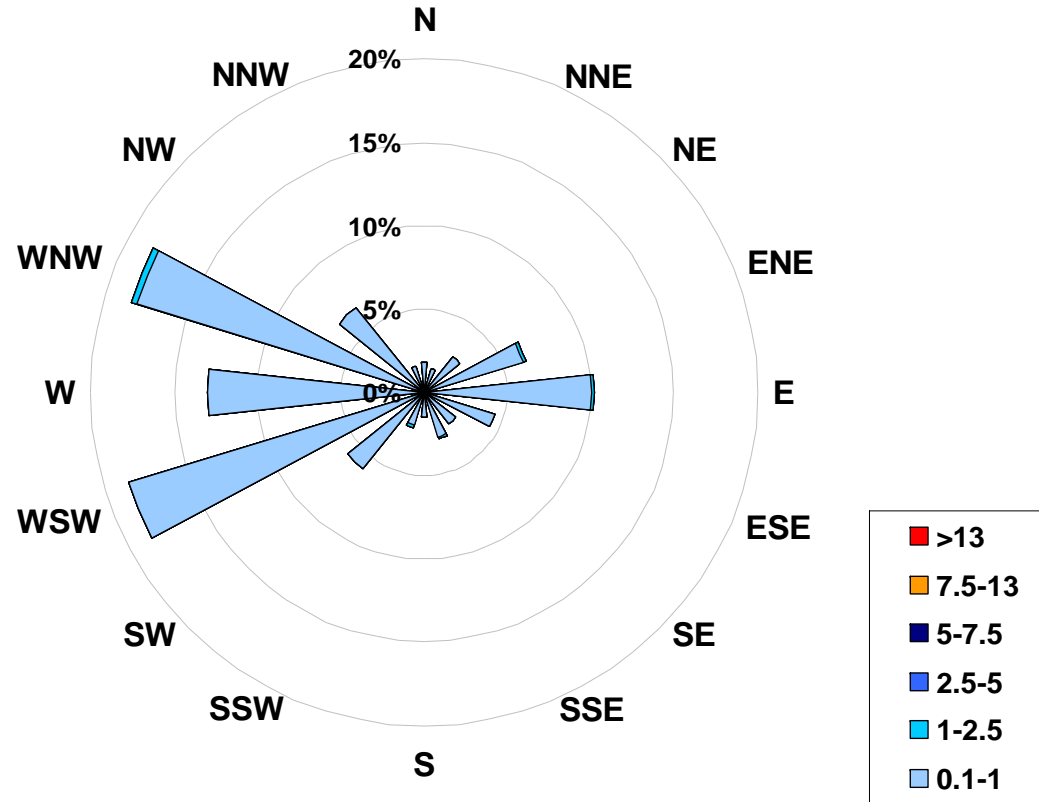


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for November 2007



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	678
1	to	2.5	6
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			684

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

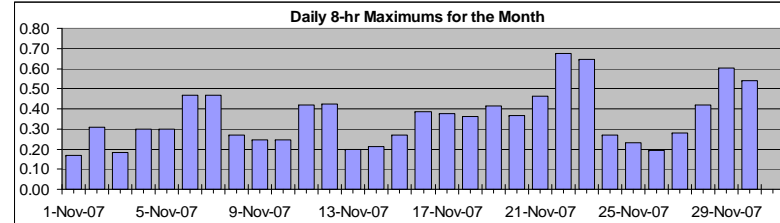
Carbon Monoxide (CO)

Monitoring Dates: November 1, 2007 to December 1, 2007

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.7 ppm 22-Nov 23:00 0:00



Percentile	99	95	75	50	25	5	1
	0.6	0.4	0.3	0.2	0.2	0.1	0.1

Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1-Nov-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.17
2-Nov-07	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.31
3-Nov-07	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
4-Nov-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.30
5-Nov-07	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
6-Nov-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.47
7-Nov-07	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.47
8-Nov-07	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
9-Nov-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
10-Nov-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
11-Nov-07	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.42
12-Nov-07	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.42
13-Nov-07	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.20
14-Nov-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
15-Nov-07	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.27
16-Nov-07	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.38
17-Nov-07	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.37
18-Nov-07	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.36
19-Nov-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.42
20-Nov-07	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.37
21-Nov-07	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.46
22-Nov-07	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.67
23-Nov-07	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	N	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.65
24-Nov-07	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.27
25-Nov-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23
26-Nov-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
27-Nov-07	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.28
28-Nov-07	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.42
29-Nov-07	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.60
30-Nov-07	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.54

Hourly Max	0.65	0.59	0.51	0.46	0.40	0.33	0.28	0.29	0.35	0.43	0.45	0.45	0.45	0.45	0.45	0.44	0.37	0.45	0.54	0.58	0.59	0.59	0.65	0.67
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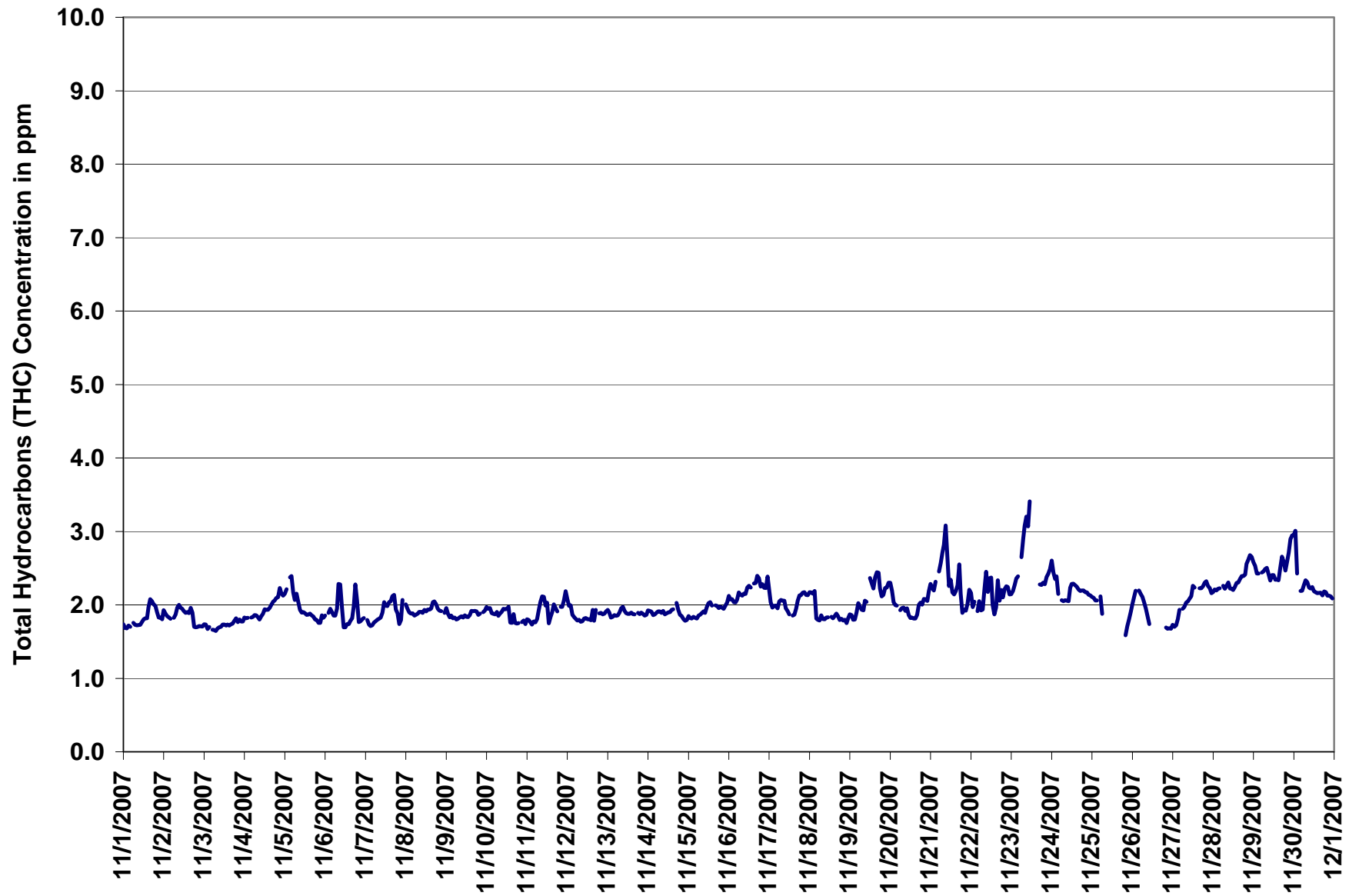


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

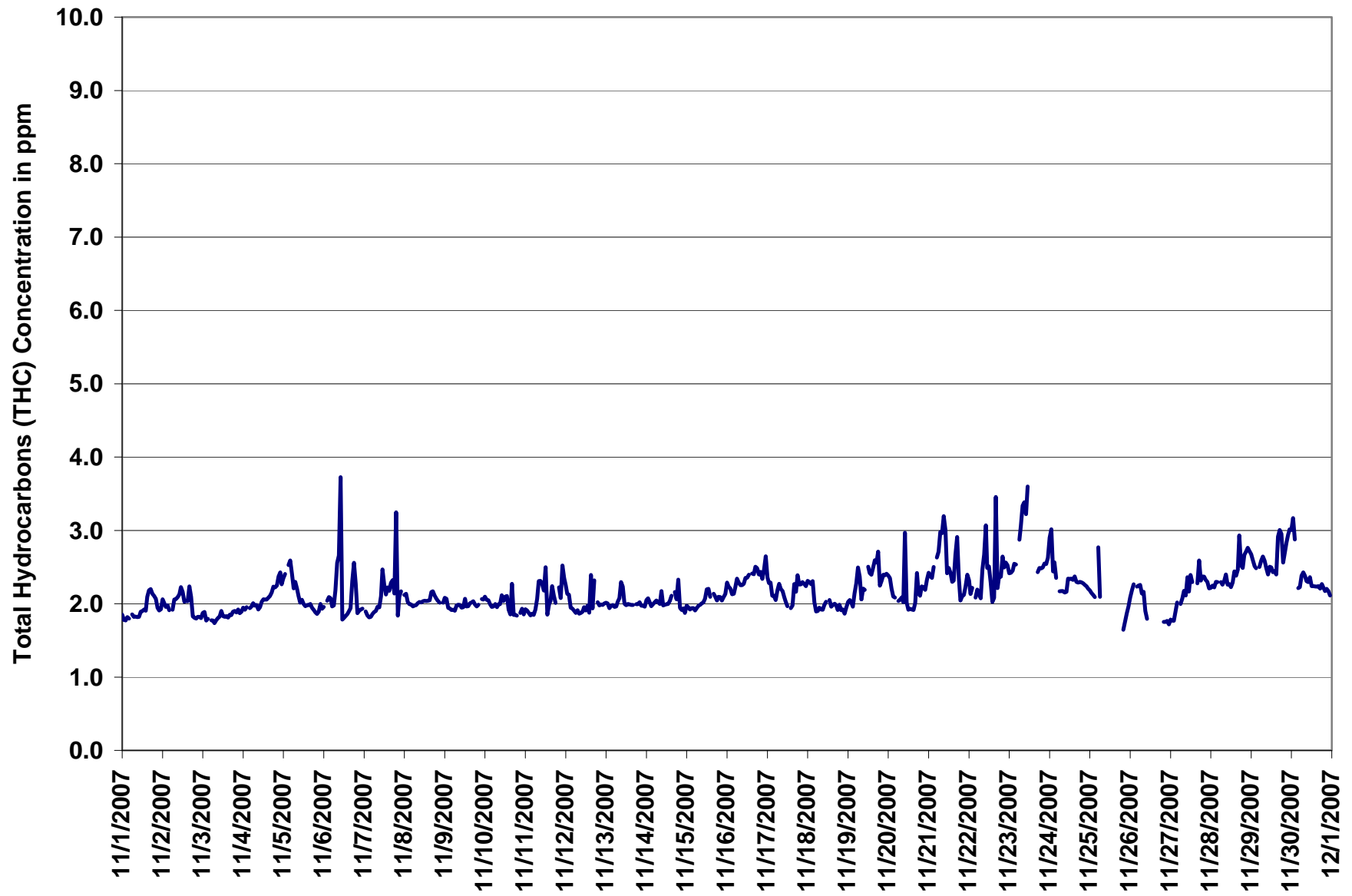
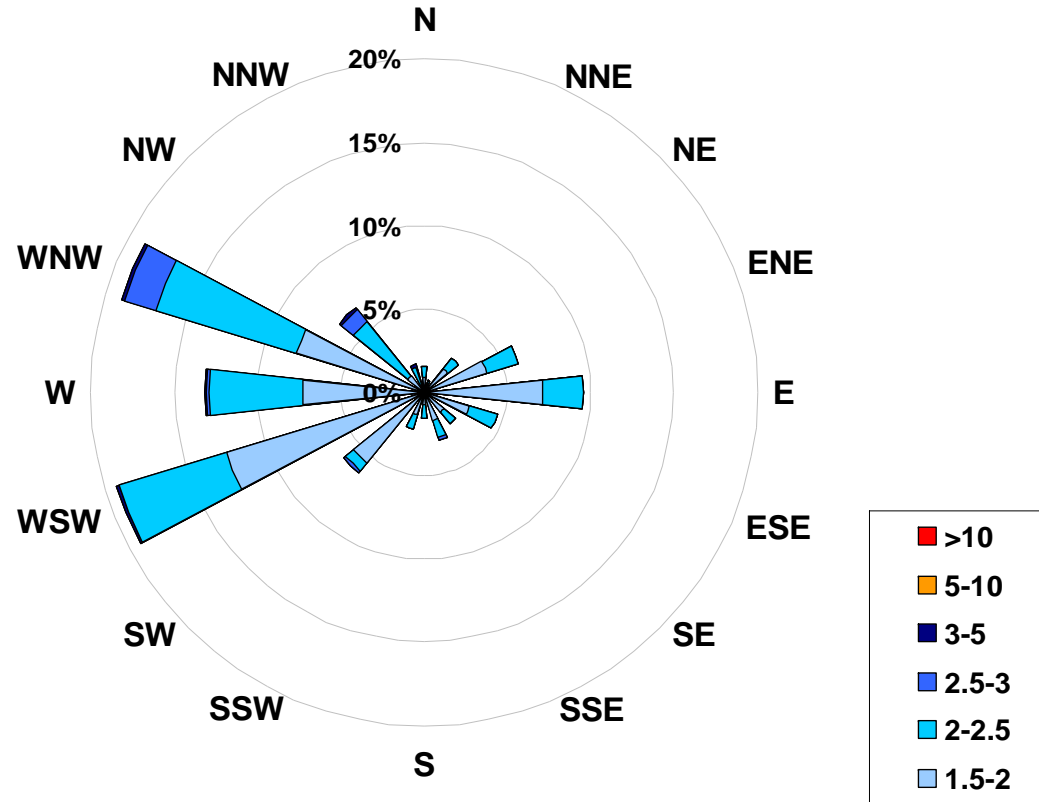


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for November 2007**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	379
2	to	2.5	253
2.5	to	3	22
3	to	5	6
5	to	10	0
	>	10	0
Total Non-Zero Values			660

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

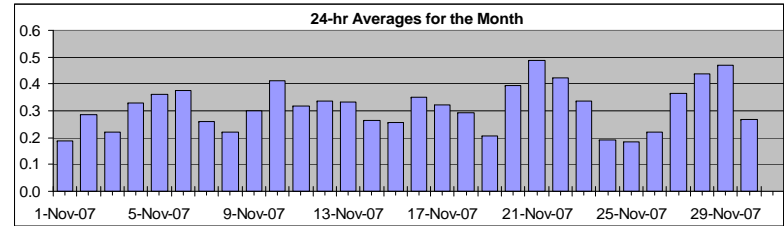
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	1.1	ppb	29-Nov	17:00 18:00
Maximum 24-hr Value:	0.5	ppb	21-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.8	0.6	0.4	0.3	0.2	0.2	0.1	0.3 ppb	0.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
2-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
3-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
4-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.3	0.5
5-Nov-07	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
6-Nov-07	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.4	0.9
7-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
8-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
9-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
10-Nov-07	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.7
11-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0.3	0.6
12-Nov-07	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.8
13-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.5
14-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.4
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
16-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0.4	0.6
17-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.5
18-Nov-07	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	0.5
19-Nov-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	0.2	0.4
20-Nov-07	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.4	0.6
21-Nov-07	0	0	0	0	A	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0.5	0.9
22-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0.4	0.7
23-Nov-07	0	0	0	0	0	A	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
24-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
25-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
26-Nov-07	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
27-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.6
28-Nov-07	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.4	0.7
29-Nov-07	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0.5	1.1
30-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3		
Hourly Max	0.8	0.7	0.5	0.5	0.6	0.7	0.8	0.6	0.9	0.9	0.6	0.6	0.6	0.5	0.4	0.6	0.5	1.1	1.0	0.6	0.6	0.7	0.6	0.6		

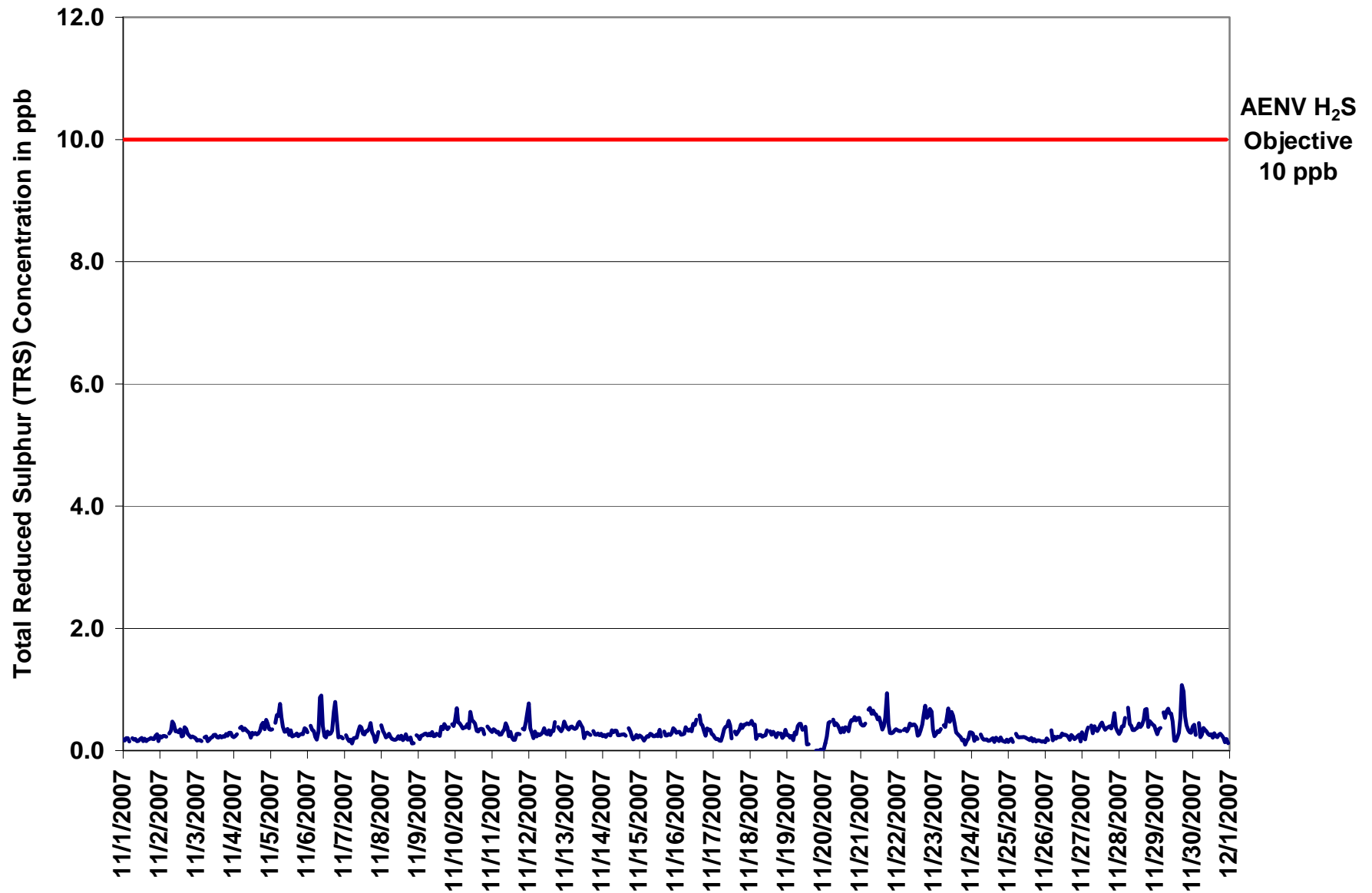


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

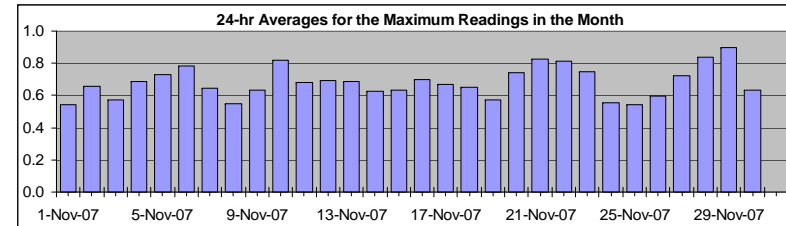
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	2.4	ppb	10-Nov	10:00 11:00
Maximum 24-hr Value:	0.9	ppb	29-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	1.0	0.7	0.7	0.6	0.5	0.4	0.7 ppb	0.7 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-07	0	0	0	1	1	A	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0	1	1	1	0.5	0.7
2-Nov-07	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
3-Nov-07	1	0	1	1	A	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.8
4-Nov-07	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
5-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.7	1.1
6-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0.8	1.5
7-Nov-07	A	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	1.0
8-Nov-07	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	0	A	1	1	0.5	0.8
9-Nov-07	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8
10-Nov-07	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	2.4
11-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.1
12-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.2
13-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.8
14-Nov-07	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	0.6	0.8
15-Nov-07	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	0	1	1	1	1	0.6	0.8
16-Nov-07	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	1.0
17-Nov-07	1	0	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	0.8
18-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
19-Nov-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	C	C	C	A	0	0	0	0	0	0.6	0.9
20-Nov-07	0	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
21-Nov-07	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	1.5
22-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
23-Nov-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0.7	1.2
24-Nov-07	1	1	1	1	1	A	1	0	1	1	1	0	1	0	0	1	1	0	1	1	0	1	0	0	0.6	0.8
25-Nov-07	1	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.5	0.7
26-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0.6	0.9
27-Nov-07	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	1.0
28-Nov-07	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	1.4
29-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0.9	2.0
30-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	0.6	0.9
Hourly Avg	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.8	0.7	0.6	0.6	0.7	0.7	0.6		
Hourly Max	1.2	1.2	0.8	0.9	1.2	1.1	1.2	1.3	1.5	1.4	2.4	1.1	1.1	1.0	0.8	0.9	1.2	2.0	1.5	0.9	1.0	1.1	1.2	1.1		

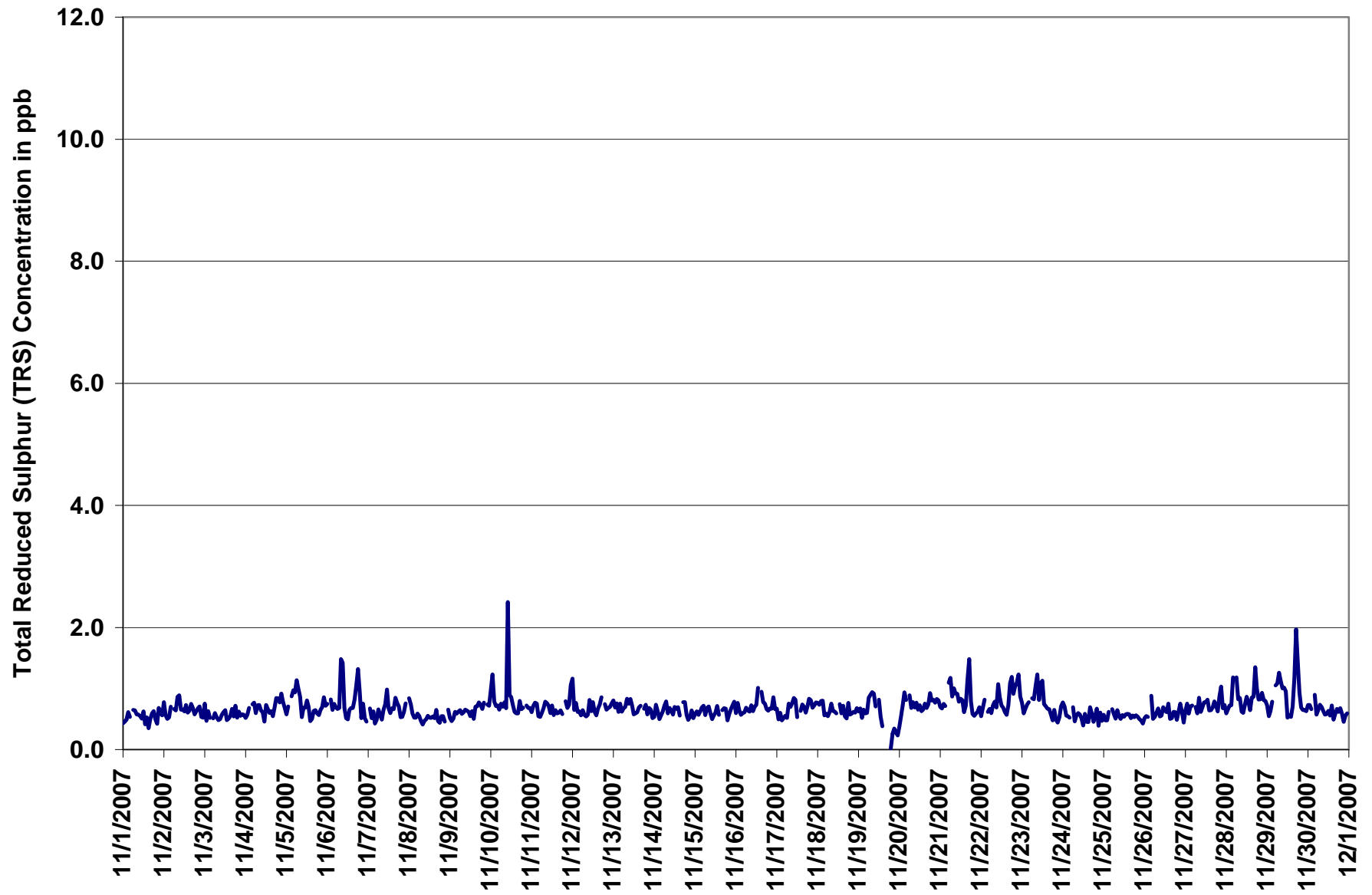
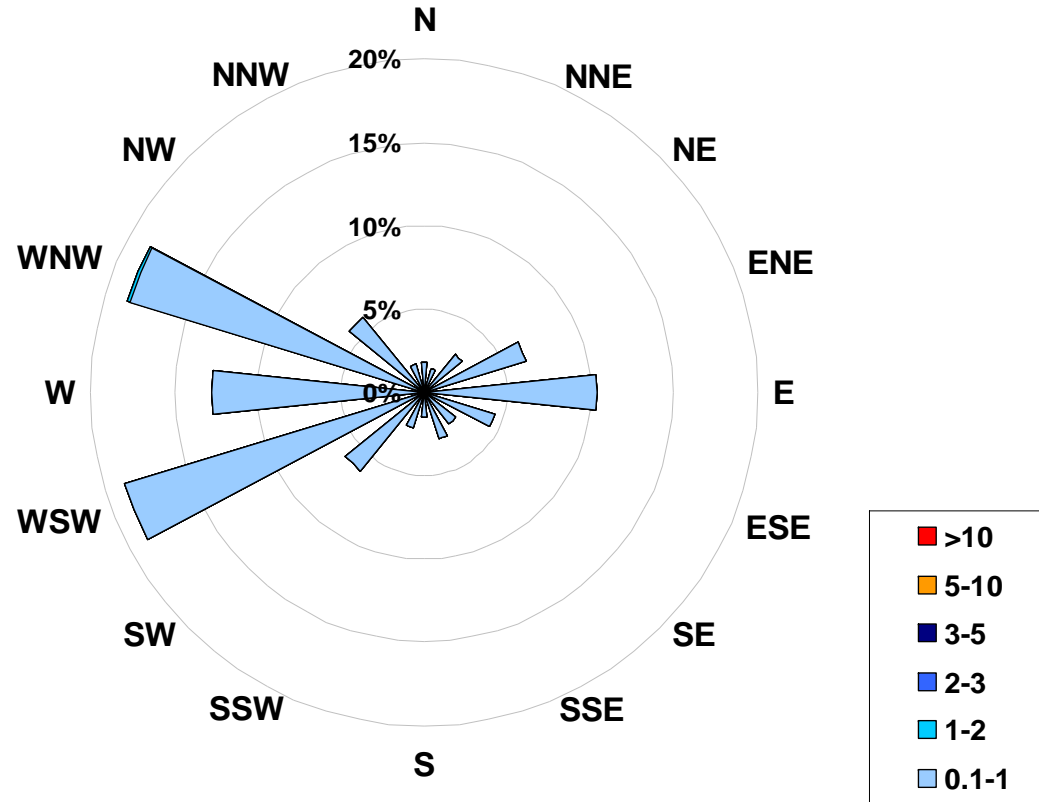


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for November 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	684
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			685

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

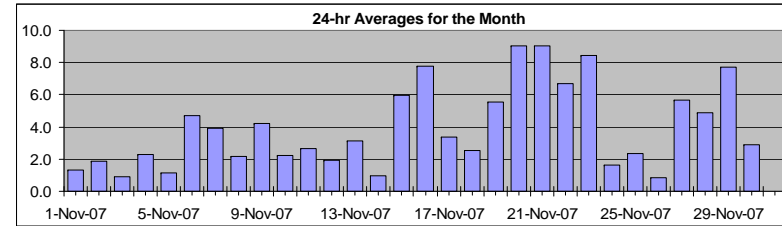
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	31.9 µg/m ³ 20-Nov 23:00 0:00
Maximum 24-hr Value:	9.0 µg/m ³ 21-Nov

AIC Time:	0 hrs	Operational Time:	710 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.4%
Percentile	99	95	75
	18.2	11.5	6.0
	50	25	10
	2.7	1.0	0.0
	5	1	0.0
	0.0	0.0	4.0
	Average / Median		3 µg/m ³
	Geomean		3.1 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
1-Nov-07	3	2	2	2	1	2	2	2	2	2	2	0	0	0	0	C	C	C	C	C	C	1	0	1	1	1.3	2.9
2-Nov-07	2	1	2	1	1	0	1	1	6	7	4	3	0	1	0	2	3	5	0	0	1	1	2	2	2	1.9	7.1
3-Nov-07	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	2	2	2	3	0.9	2.7	
4-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	3	6	5	8	6	6	5	1	2.3	7.9	
5-Nov-07	2	2	3	3	5	4	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3	2	1.2	4.5	
6-Nov-07	2	2	3	3	2	1	2	3	12	12	4	1	0	1	2	4	7	14	17	10	3	3	3	3	4.7	16.9	
7-Nov-07	2	3	3	2	2	2	3	3	3	5	5	7	6	5	7	6	9	7	3	0	0	5	6	6	3.9	8.8	
8-Nov-07	6	3	3	2	2	1	1	1	2	2	4	1	2	1	1	2	3	3	2	1	1	2	4	3	2.2	6.0	
9-Nov-07	2	1	2	6	6	9	6	4	3	2	2	3	2	4	5	6	5	5	5	5	5	6	5	5	4.2	9.1	
10-Nov-07	7	4	3	1	3	1	2	0	3	3	2	4	8	8	0	1	1	0	0	0	0	1	1	1	2.2	8.5	
11-Nov-07	1	0	0	0	0	0	2	2	3	4	4	3	2	0	1	1	4	6	5	5	3	5	6	7	2.7	7.4	
12-Nov-07	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	7	6	6	5	4	3	2.0	7.3	
13-Nov-07	1	4	3	3	3	2	2	3	4	5	1	3	5	1	1	2	6	11	3	1	6	2	0	0	3.1	11.2	
14-Nov-07	1	1	2	2	0	0	1	3	2	3	1	1	0	0	0	1	3	2	0	0	0	0	0	0	1.0	3.5	
15-Nov-07	2	2	2	3	3	3	4	4	5	4	5	7	8	19	14	10	7	5	5	6	6	5	6	6	6.0	19.2	
16-Nov-07	7	5	5	5	4	4	6	6	7	7	6	13	10	8	14	15	10	11	10	9	11	7	4	5	7.8	15.3	
17-Nov-07	3	0	0	0	0	0	0	1	4	3	0	0	0	0	0	4	2	4	8	7	9	12	12	10	3.4	12.3	
18-Nov-07	10	10	9	9	3	2	5	3	0	0	1	1	0	0	0	0	0	1	1	1	0	1	1	4	2.6	9.9	
19-Nov-07	4	4	2	2	3	3	3	6	5	9	9	4	11	8	6	4	7	7	7	6	7	7	5	5	5.5	11.0	
20-Nov-07	5	5	5	4	6	6	6	5	5	5	5	4	1	1	2	2	5	15	18	15	17	18	29	32	9.0	31.9	
21-Nov-07	26	17	15	15	13	11	10	10	11	11	8	3	4	4	10	5	7	13	6	3	2	2	5	7	9.0	25.7	
22-Nov-07	7	4	5	2	2	5	3	3	6	10	2	4	5	3	4	8	9	13	15	8	13	12	10	9	6.7	15.1	
23-Nov-07	7	6	8	7	8	7	9	10	17	17	9	18	22	14	6	5	1	4	4	2	D	3	5	7	8.5	21.7	
24-Nov-07	7	D	0	1	0	1	0	1	1	0	0	0	1	2	2	3	7	0	1	1	1	2	2	2	1.6	7.3	
25-Nov-07	2	2	1	0	1	1	2	2	3	6	3	2	1	3	2	3	4	4	3	3	2	1	1	3	2.3	6.4	
26-Nov-07	1	1	2	0	1	0	1	1	0	0	0	D	0	D	0	0	0	0	0	1	2	2	3	4	0.8	3.8	
27-Nov-07	4	4	4	12	4	0	9	4	6	3	4	6	9	8	6	6	6	6	6	7	7	5	10	1	5.7	11.7	
28-Nov-07	3	2	2	1	1	1	2	1	3	0	2	2	2	8	4	10	10	10	8	8	10	7	10	9	4.9	10.3	
29-Nov-07	8	6	8	6	7	6	8	9	11	9	9	8	5	2	2	3	6	19	16	8	7	7	6	6	7.7	18.5	
30-Nov-07	6	8	15	5	1	1	3	3	4	3	3	3	0	2	0	1	0	1	1	7	1	0	0	0	2.9	15.4	
Hourly Avg	4.6	3.4	3.6	3.3	2.7	2.5	3.2	3.0	4.3	4.5	3.2	3.5	3.6	3.6	3.1	3.8	4.5	6.1	5.4	4.4	4.5	4.3	5.0	4.9			
Hourly Max	25.7	16.7	15.4	14.5	12.6	11.4	10.4	10.0	16.7	16.7	9.4	18.2	21.7	19.2	14.2	15.3	10.3	18.5	18.0	15.1	17.1	18.3	29.3	31.9			

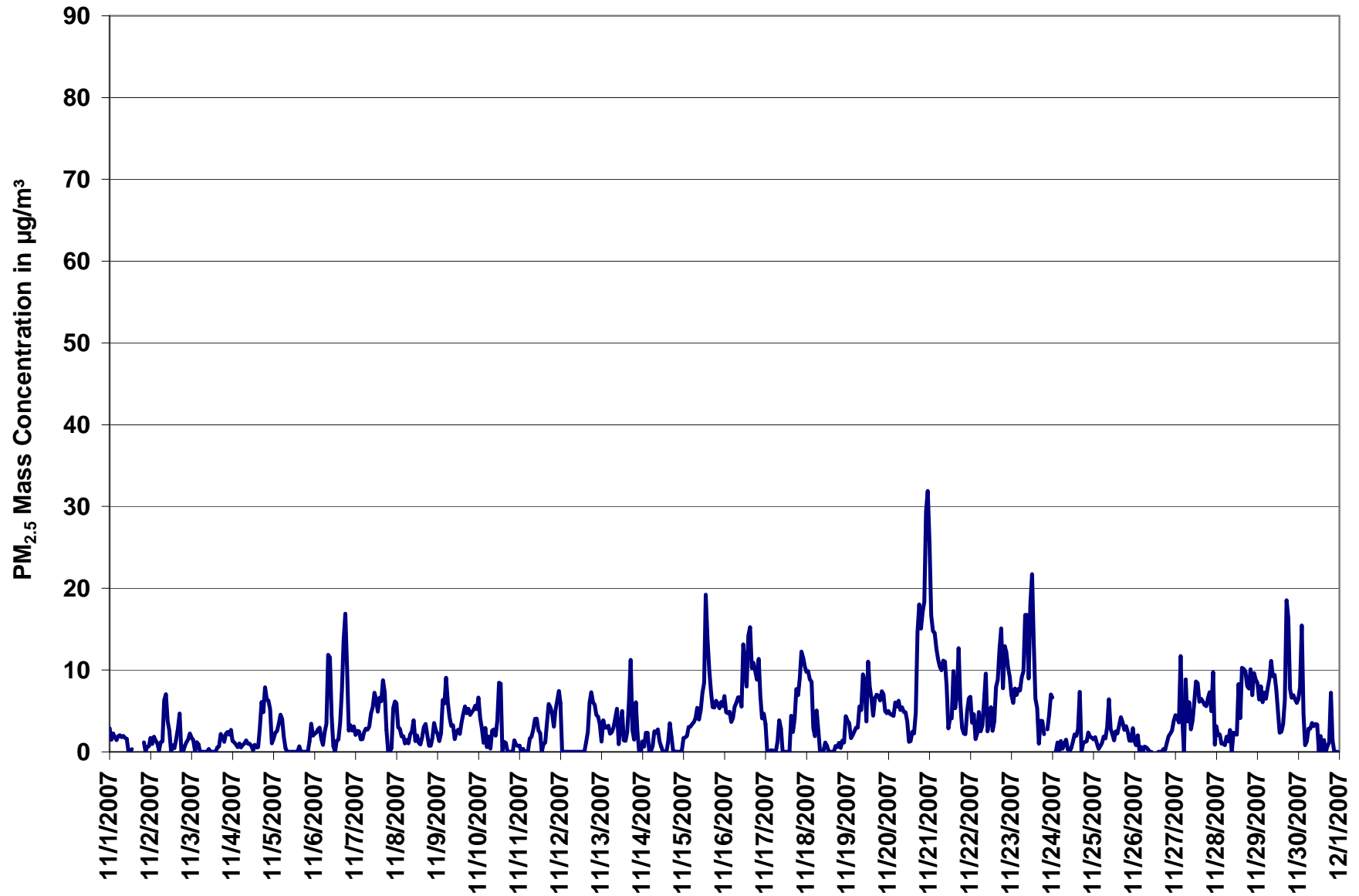


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

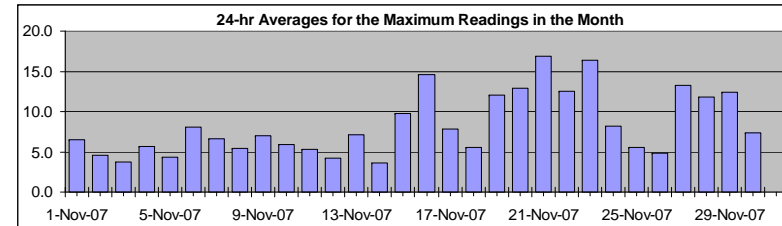
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	43.2	µg/m ³	27-Nov	3:00 4:00
Maximum 24-hr Value:	16.8	µg/m ³	21-Nov	

AIC Time:	0 hrs	Operational Time:	714 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	34.4	23.9	9.8	6.3	4.0	2.1	0.9	8.4	6 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-Nov-07	9	9	8	9	8	8	8	8	8	7	5	3	4	C	C	C	C	C	C	6	3	3	5	6.5	9.0	
2-Nov-07	4	3	5	4	4	3	4	5	8	10	8	7	2	2	3	3	7	7	3	3	2	3	3	5	4.6	9.6
3-Nov-07	4	6	4	5	3	3	2	2	3	3	3	4	2	2	2	3	3	5	4	4	6	5	5	6	3.7	6.5
4-Nov-07	4	4	4	3	5	4	5	4	5	4	3	3	2	3	3	2	6	14	8	11	12	11	11	5	5.7	14.4
5-Nov-07	6	7	6	7	7	7	5	5	2	2	2	3	2	2	1	4	4	3	3	3	3	6	7	8	4.3	7.6
6-Nov-07	4	4	6	6	5	5	6	7	17	17	10	2	3	4	4	7	17	15	23	14	4	5	4	5	8.1	23.0
7-Nov-07	5	5	6	4	4	5	6	6	6	8	10	11	9	7	9	8	13	11	5	2	3	4	8	8	6.7	13.0
8-Nov-07	10	6	6	6	5	4	5	4	5	6	8	4	6	4	3	4	6	6	6	4	5	5	8	6	5.5	9.7
9-Nov-07	6	4	5	10	10	11	9	7	5	6	5	5	6	5	6	6	8	8	7	7	7	8	8	8	7.0	11.3
10-Nov-07	12	8	7	4	8	5	6	3	7	6	6	7	23	13	5	3	3	1	2	2	2	4	3	3	5.9	23.1
11-Nov-07	3	2	2	2	2	3	5	5	7	7	7	5	6	2	3	3	8	8	9	7	6	8	8	9	5.3	9.4
12-Nov-07	12	2	2	2	2	2	1	0	0	1	2	0	3	2	2	3	5	9	11	8	9	8	8	6	4.2	12.2
13-Nov-07	5	8	6	7	7	5	6	6	7	9	6	6	8	5	3	7	10	23	9	5	11	6	3	2	7.1	22.9
14-Nov-07	5	4	6	6	3	4	4	7	5	6	3	2	1	2	2	4	6	5	2	2	2	1	3	3	3.7	7.2
15-Nov-07	5	5	6	6	6	6	7	7	8	7	7	11	12	29	21	15	11	10	9	9	9	8	9	9	9.7	29.5
16-Nov-07	10	9	9	8	7	8	9	8	9	8	15	35	25	31	39	29	12	13	13	13	15	10	6	6	14.6	38.8
17-Nov-07	6	7	2	3	3	0	2	6	6	4	5	23	1	0	6	25	5	7	11	10	13	16	15	13	7.9	25.0
18-Nov-07	13	13	13	12	7	5	9	6	3	3	4	6	3	3	2	1	2	3	2	5	3	5	4	9	5.6	13.4
19-Nov-07	8	7	7	6	8	7	6	11	8	13	12	38	31	19	16	8	11	11	10	11	13	13	10	8	12.1	38.3
20-Nov-07	9	7	7	7	10	7	8	7	8	7	6	7	14	4	6	6	10	20	21	20	23	24	35	36	12.9	36.2
21-Nov-07	30	26	17	17	15	15	14	14	14	14	12	31	22	29	29	23	13	17	12	5	5	6	10	12	16.8	31.3
22-Nov-07	11	7	8	5	6	9	7	5	10	14	10	8	10	5	23	32	17	17	19	13	17	16	15	15	12.5	32.4
23-Nov-07	10	8	11	10	10	10	12	14	24	22	16	21	30	18	12	8	4	33	22	4	25	5	33	31	16.4	33.1
24-Nov-07	20	8	2	26	3	5	2	4	7	17	1	4	3	4	5	31	31	2	3	4	4	5	5	4	8.2	30.9
25-Nov-07	4	4	4	3	3	3	4	5	5	18	9	5	4	6	6	7	7	6	5	7	4	5	5	5	5.6	17.7
26-Nov-07	4	3	4	4	7	2	4	4	4	1	3	11	13	1	1	18	2	3	2	3	7	5	6	5	4.9	17.6
27-Nov-07	7	6	6	43	23	6	30	5	9	9	7	8	11	11	8	10	9	7	8	9	9	29	27	20	13.3	43.2
28-Nov-07	12	4	4	4	4	3	4	3	6	6	5	5	10	34	28	38	23	23	10	11	13	10	13	11	11.8	37.7
29-Nov-07	11	9	11	8	10	10	10	13	14	13	12	20	10	6	5	6	14	40	27	11	10	9	10	8	12.4	40.3
30-Nov-07	10	13	19	14	2	3	7	7	14	10	6	6	3	6	4	4	1	4	4	27	4	4	4	0	7.4	26.5
Hourly Avg	8.7	6.9	6.8	8.4	6.5	5.6	6.9	6.2	7.9	8.6	7.0	10.1	9.2	8.8	8.8	11.1	9.3	11.4	9.4	8.0	8.4	8.3	9.6	9.0		
Hourly Max	30.0	26.4	18.8	43.2	23.4	14.8	30.1	14.4	24.0	22.3	15.8	38.3	30.7	34.0	38.8	37.7	30.9	40.3	27.2	26.5	24.7	29.4	34.5	36.2		

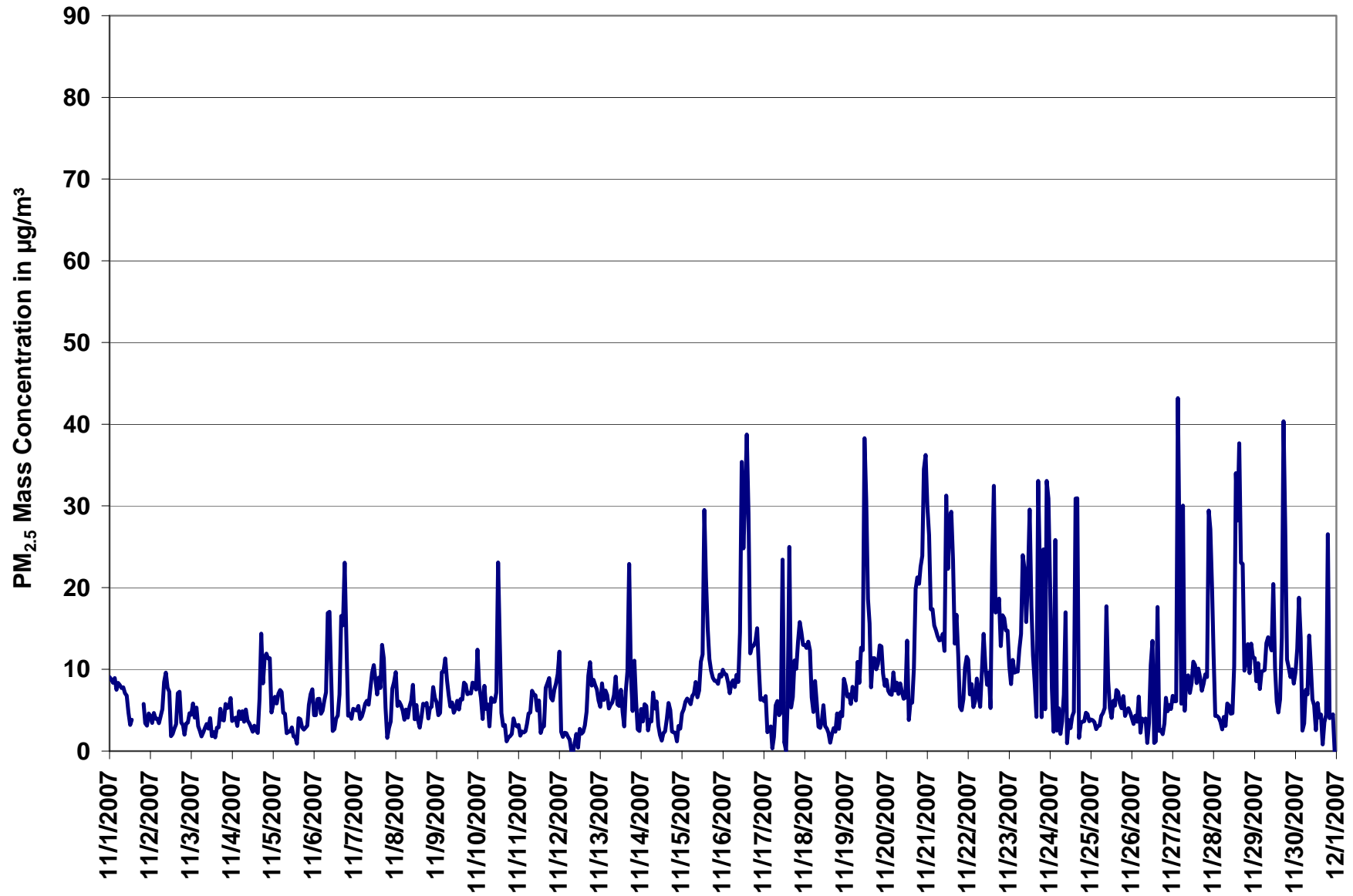
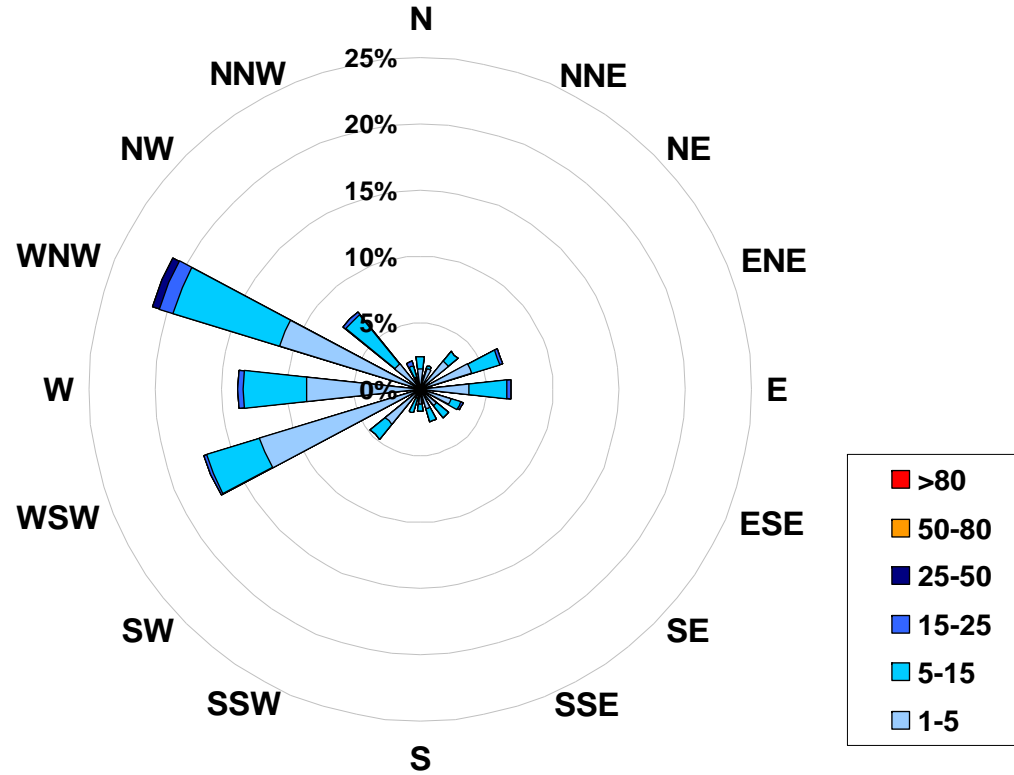


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 November 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	495
5	to	15	196
15	to	25	16
25	to	50	3
50	to	80	0
	>	80	0
Total Non-Zero Values			710

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

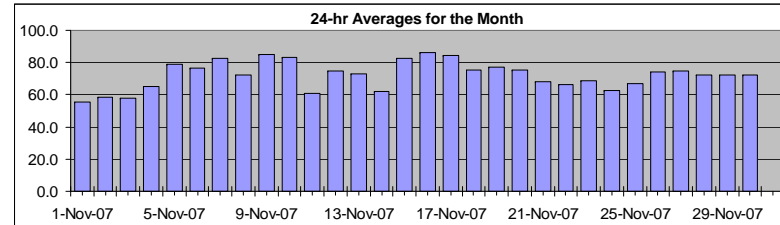
Relative Humidity (RH)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	93.7 %	10-Nov	2:00 3:00
Maximum 24-hr Value:	86.1 %	16-Nov	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	92.7	89.7	80.1	73.5	63.6	51.7	46.0	72.2 %	73.5 %



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Nov-07	66	69	66	64	64	64	63	61	59	55	50	44	39	37	39	41	43	47	55	58	61	62	62	61	55.4	68.5	
2-Nov-07	62	63	63	63	66	65	58	59	61	61	58	54	52	50	47	47	50	54	54	56	59	63	67	68	58.3	68.4	
3-Nov-07	69	66	59	67	61	54	51	52	51	50	49	48	47	47	46	46	49	56	61	65	70	73	74	73	57.6	73.9	
4-Nov-07	71	71	71	69	72	73	76	77	67	58	55	54	51	50	50	50	58	62	65	71	74	74	74	69	65.2	77.0	
5-Nov-07	75	81	84	84	82	82	80	79	78	76	73	73	71	62	57	65	84	87	89	89	88	88	88	86	79.2	88.8	
6-Nov-07	87	87	87	87	86	85	85	88	89	82	71	67	64	64	62	62	64	71	75	75	72	74	76	79	76.6	88.7	
7-Nov-07	78	81	84	84	85	87	88	89	89	89	89	86	83	83	79	77	79	81	77	72	75	76	83	87	82.5	89.4	
8-Nov-07	88	83	79	78	77	77	78	79	82	79	75	66	53	47	49	53	64	67	71	74	76	78	79	79	72.1	87.7	
9-Nov-07	77	76	75	74	74	79	87	91	92	91	90	88	81	84	85	85	87	87	87	88	90	92	93	93	85.2	93.1	
10-Nov-07	93	94	94	94	93	93	93	92	93	92	92	93	89	93	75	74	77	75	70	68	66	64	64	59	82.9	93.7	
11-Nov-07	63	66	67	64	64	61	66	72	76	69	65	58	50	47	51	54	56	58	56	57	56	58	62	65	60.8	75.8	
12-Nov-07	64	63	65	65	65	76	83	85	86	83	78	77	69	65	68	65	61	65	73	81	89	92	92	90	75.0	92.1	
13-Nov-07	82	83	81	79	80	80	80	83	84	84	80	72	70	65	63	60	59	62	66	69	67	67	67	67	72.9	84.0	
14-Nov-07	70	70	71	66	67	67	69	68	67	65	58	57	54	51	49	50	57	61	62	62	62	59	58	62	61.8	71.2	
15-Nov-07	65	66	67	71	87	87	88	89	89	88	85	80	79	79	80	84	86	87	88	88	88	88	89	89	82.8	89.2	
16-Nov-07	90	88	88	88	87	88	89	87	86	86	82	80	79	80	78	82	84	84	86	89	90	91	91	91	86.1	91.4	
17-Nov-07	90	80	80	83	86	87	88	90	91	89	87	81	76	74	73	75	80	84	87	87	88	89	90	90	84.3	90.7	
18-Nov-07	90	90	91	92	91	84	85	83	78	74	74	64	62	62	60	61	62	68	63	67	69	74	76	80	75.0	91.8	
19-Nov-07	83	85	85	84	85	85	85	84	83	78	71	63	59	60	62	64	68	76	77	78	79	82	84	84	76.9	85.5	
20-Nov-07	79	79	78	77	76	78	77	78	78	76	74	73	65	62	60	58	63	80	87	88	83	82	81	81	75.5	88.3	
21-Nov-07	80	80	79	79	79	79	79	79	79	79	77	69	56	52	56	55	60	66	58	52	55	56	61	65	68.0	80.1	
22-Nov-07	64	63	68	63	65	70	70	68	73	68	63	57	54	52	52	55	59	69	72	73	76	79	78	81	66.4	81.1	
23-Nov-07	82	81	79	79	80	81	80	80	80	79	75	68	65	56	52	55	57	60	62	63	56	55	61	62	68.7	82.3	
24-Nov-07	65	57	57	60	55	62	63	64	71	77	67	60	58	61	59	59	65	61	61	66	65	63	61	61	62.4	76.7	
25-Nov-07	63	63	62	63	64	67	70	73	74	73	67	63	58	60	62	65	69	74	72	71	70	70	68	69	67.0	74.0	
26-Nov-07	68	69	68	66	70	70	74	75	75	75	74	74	74	74	74	75	77	77	77	77	78	78	78	78	74.1	77.9	
27-Nov-07	77	77	78	79	78	77	76	75	75	73	72	70	72	74	74	74	75	75	75	75	76	75	73	73	74.9	79.5	
28-Nov-07	78	78	78	75	74	74	75	76	75	73	70	64	66	60	59	67	75	78	76	76	76	73	73	73	72.6	78.1	
29-Nov-07	73	72	73	73	76	75	74	75	75	75	74	72	67	62	61	62	70	79	79	76	72	72	73	74	72.2	79.5	
30-Nov-07	74	75	77	76	74	74	74	76	75	74	71	72	70	68	71	72	70	69	72	70	70	68	71	67	72.2	76.7	
Hourly Avg	75.5	75.1	75.1	74.9	75.5	76.1	76.9	77.5	77.6	75.7	72.2	68.2	64.4	62.6	61.8	63.2	66.9	70.7	71.8	72.7	73.1	73.9	75.0	75.2			
Hourly Max	93.1	93.7	93.7	93.6	93.3	93.1	92.7	92.5	92.5	92.3	92.5	92.5	89.1	92.6	85.2	84.9	86.6	87.4	88.8	89.1	90.3	92.1	92.7	93.1			

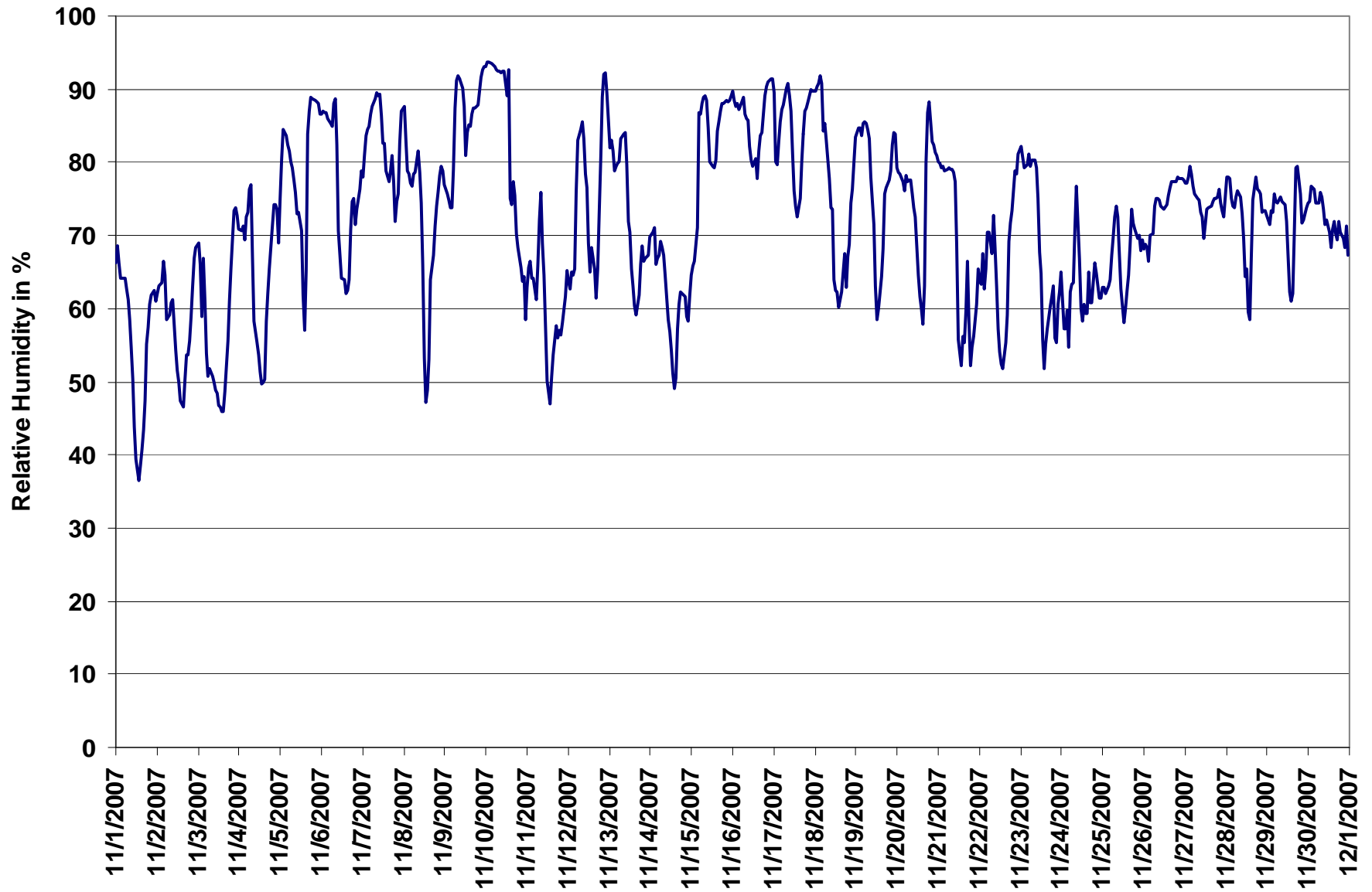


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

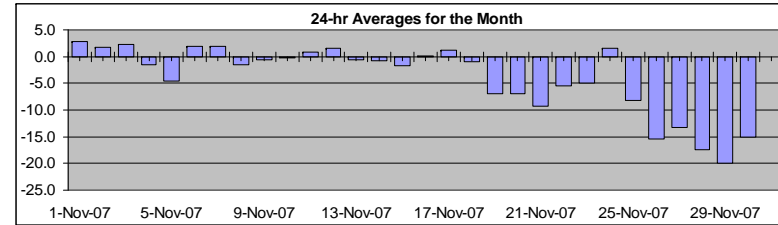
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	7.2 °C	6-Nov	12:00 13:00
Maximum 24-hr Value:	2.8 °C	1-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.4	4.0	1.0	-1.5	-7.6	-17.4	-23.8	-4.0 °C	-1.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Nov-07	2	3	2	2	2	1	1	1	2	3	4	5	6	7	7	6	5	4	2	1	1	0	-1	-1	2.8	6.9	
2-Nov-07	-1	-1	-2	-2	-2	-1	0	0	0	1	1	3	3	4	4	5	4	4	5	5	4	4	3	3	1.8	5.2	
3-Nov-07	2	2	3	1	1	2	3	2	2	3	3	4	4	4	4	4	4	2	2	1	0	0	0	0	2.3	4.4	
4-Nov-07	0	0	-2	-2	-3	-3	-4	-5	-3	0	1	2	2	3	3	2	0	-1	-2	-4	-5	-6	-6	-5	-1.6	3.2	
5-Nov-07	-7	-8	-9	-9	-8	-8	-7	-7	-7	-6	-5	-4	-3	-2	-2	-2	-3	-2	-2	-2	-2	-2	-2	-2	-4.5	-1.6	
6-Nov-07	-2	-2	-1	-1	-1	-2	-2	-3	-3	0	4	7	7	7	7	7	6	4	3	3	3	3	2	1	1.9	7.2	
7-Nov-07	0	0	0	0	0	0	0	0	-1	0	0	1	3	3	5	5	5	4	4	5	5	5	2	1	1.9	5.3	
8-Nov-07	0	-1	-3	-4	-4	-4	-4	-3	-4	-4	-2	0	3	4	2	2	0	-1	-2	-2	-2	-3	-3	-2	-1.5	3.6	
9-Nov-07	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	2	1	0	1	0	0	0	0	-1	-1	-1	-1	-0.6	1.6	
10-Nov-07	-1	-1	-2	-2	-2	-2	-3	-3	-3	-3	-2	-1	1	0	3	3	3	2	2	2	1	1	-1	0	-0.3	3.0	
11-Nov-07	-1	-1	-1	-1	-1	-1	-2	-3	-4	-1	0	2	6	6	5	4	3	3	3	2	1	1	0	-1	0.9	6.4	
12-Nov-07	0	0	0	0	1	2	1	1	1	1	1	1	2	3	4	4	5	4	3	2	1	1	0	0	1.7	4.7	
13-Nov-07	0	-1	-2	-2	-2	-2	-2	-3	-4	-4	-2	1	2	3	3	3	3	1	0	0	-1	-1	0	-1	-0.5	3.4	
14-Nov-07	-1	-2	-3	-1	-2	-2	-3	-3	-3	-2	0	2	3	3	3	2	1	0	-1	-1	-1	-1	-1	-1	-0.7	2.8	
15-Nov-07	-2	-2	-2	-2	-3	-3	-3	-3	-3	-3	-2	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.8	-0.5	
16-Nov-07	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	0	1	1	1	2	1	1	1	1	1	1	1	1	1	0.1	2.2	
17-Nov-07	1	2	2	2	1	1	1	-1	-1	0	1	2	3	4	4	4	3	1	1	0	0	-1	-1	-1	1.2	4.5	
18-Nov-07	-1	-1	-1	-1	0	1	-1	-2	-2	-2	1	2	2	3	2	0	-2	0	-1	-2	-5	-6	-6	-6	-1.0	2.5	
19-Nov-07	-7	-8	-10	-11	-11	-10	-10	-10	-11	-11	-7	-3	0	0	-1	-2	-4	-5	-6	-6	-6	-7	-9	-9	-6.9	0.3	
20-Nov-07	-8	-7	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-3	-3	-2	-4	-6	-8	-9	-12	-14	-15	-15	-6.8	-2.4	
21-Nov-07	-16	-16	-17	-16	-17	-17	-16	-17	-16	-15	-12	-7	-3	0	-2	-1	-2	-4	-4	-2	-3	-4	-6	-8	-9.3	-0.5	
22-Nov-07	-7	-6	-8	-6	-7	-8	-8	-7	-9	-7	-5	-2	0	1	1	0	-1	-4	-5	-6	-7	-8	-9	-12	-5.4	1.1	
23-Nov-07	-12	-13	-12	-11	-11	-10	-11	-11	-11	-10	-7	-4	-2	1	2	1	1	0	-1	-2	1	1	0	0	-4.9	2.2	
24-Nov-07	-2	0	1	0	2	4	3	3	3	2	3	3	4	3	3	3	2	2	1	-1	-1	-1	-1	0	1.5	3.6	
25-Nov-07	-1	-1	-1	-2	-3	-4	-4	-6	-6	-6	-6	-7	-7	-8	-9	-11	-12	-13	-13	-14	-15	-16	-17	-17	-8.2	-1.0	
26-Nov-07	-17	-17	-17	-18	-18	-18	-18	-18	-18	-18	-17	-16	-15	-14	-14	-13	-13	-13	-13	-13	-13	-13	-13	-13	-15.5	-12.8	
27-Nov-07	-13	-13	-14	-14	-14	-14	-16	-17	-17	-16	-14	-12	-11	-11	-11	-11	-11	-11	-12	-12	-12	-12	-13	-13	-13.2	-11.0	
28-Nov-07	-15	-15	-16	-16	-16	-16	-16	-17	-17	-16	-16	-15	-15	-12	-12	-14	-16	-19	-22	-23	-23	-24	-24	-24	-17.3	-11.8	
29-Nov-07	-24	-25	-23	-22	-21	-21	-22	-22	-22	-20	-17	-15	-14	-12	-12	-12	-14	-17	-19	-22	-26	-26	-25	-24	-19.9	-11.6	
30-Nov-07	-23	-22	-19	-16	-15	-16	-17	-18	-17	-16	-14	-12	-11	-10	-11	-12	-12	-12	-13	-14	-15	-15	-15	-16	-15.1	-10.3	
Hourly Avg	-5.3	-5.4	-5.5	-5.4	-5.4	-5.4	-5.6	-5.9	-6.0	-5.3	-3.9	-2.3	-1.0	-0.5	-0.3	-0.7	-1.6	-2.7	-3.3	-3.8	-4.3	-4.8	-5.3	-5.6			
Hourly Max	2.5	2.6	2.6	2.2	2.4	3.6	3.3	3.3	2.6	2.9	4.5	6.8	7.2	6.9	6.8	6.7	5.9	4.2	5.0	5.3	4.7	4.8	3.1	3.0			

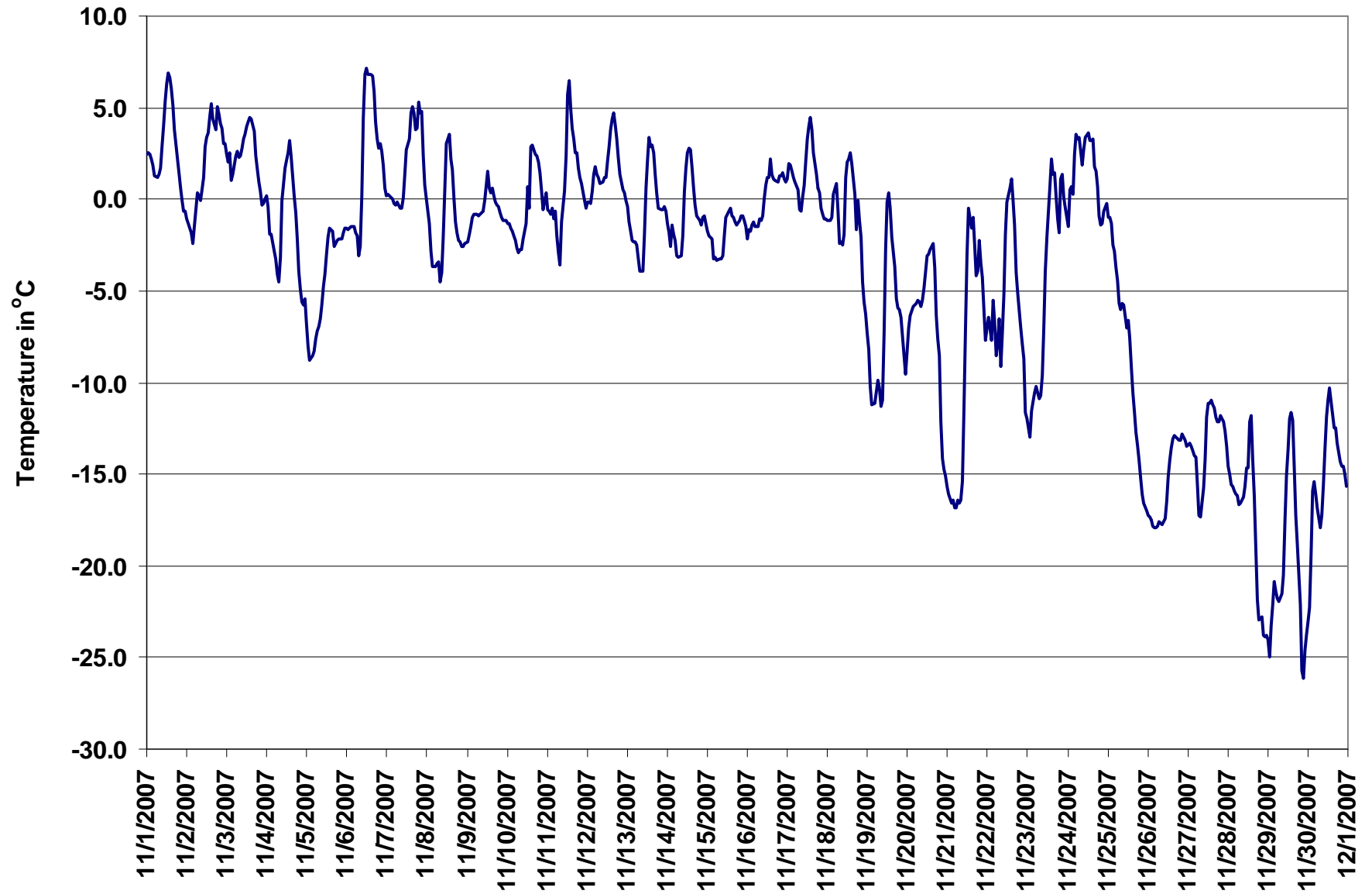


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

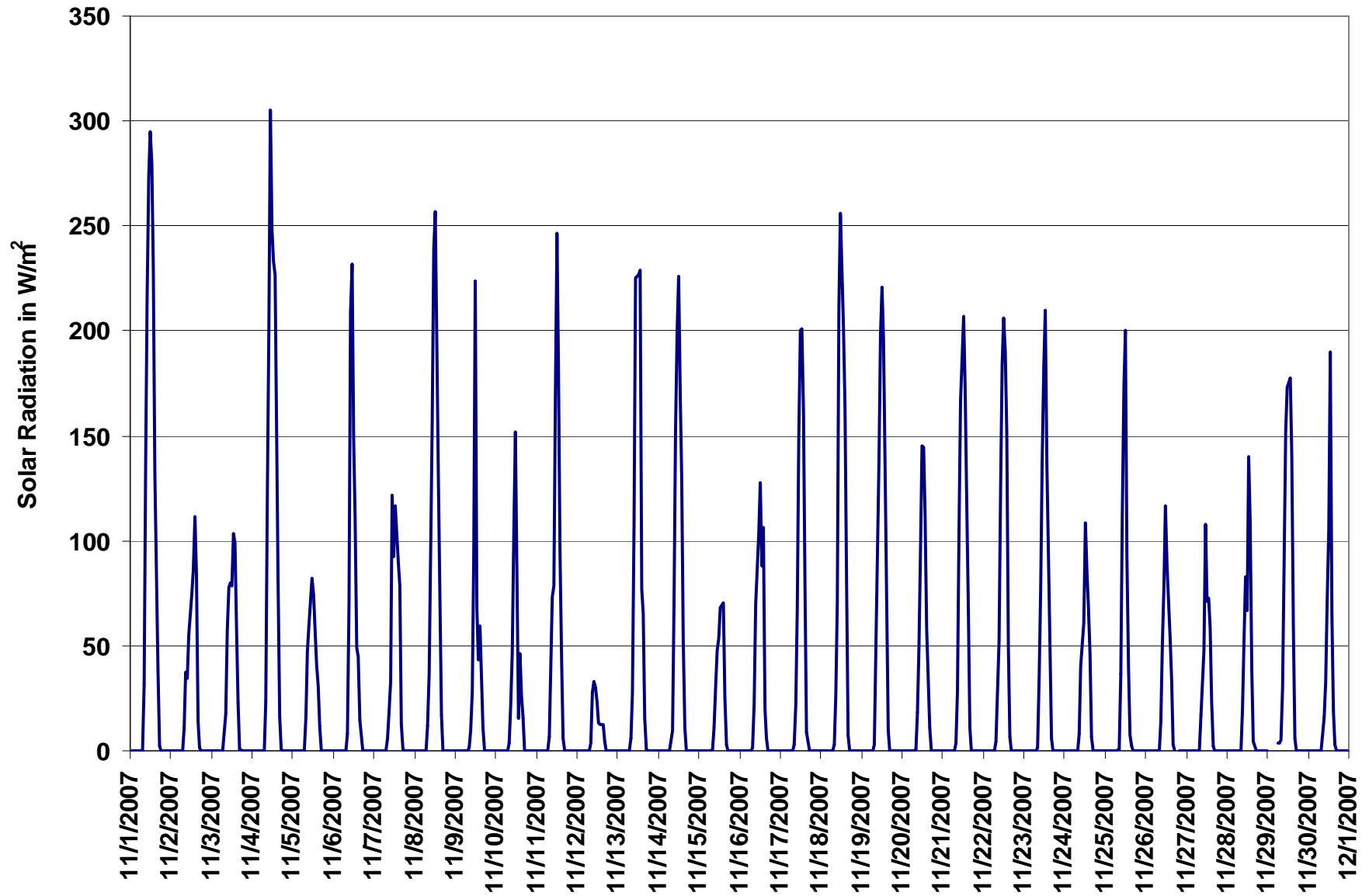


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

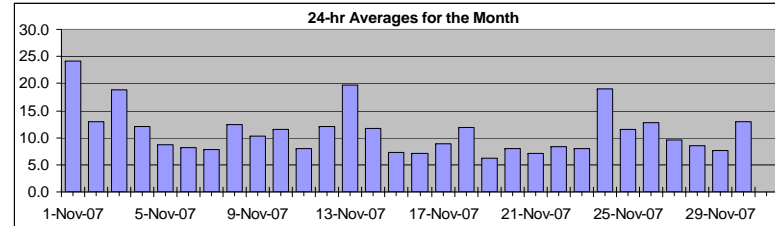
Wind Speed (WSs)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	34.1	km/hr	1-Nov	14:00 15:00
Maximum 24-hr Value:	24.2	km/hr	1-Nov	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.9	23.6	13.5	9.3	6.8	5.4	4.8	11.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max		
Hour Start	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-Nov-07	23	25	25	21	23	22	22	26	28	30	32	32	33	33	34	34	27	22	17	18	15	12	11	16		24.2	34.1	
2-Nov-07	13	13	12	6	8	10	12	7	6	7	10	10	11	11	11	9	7	8	27	29	28	23	17	19		13.0	28.9	
3-Nov-07	19	19	22	15	16	20	27	30	30	27	29	20	24	25	23	16	15	14	11	10	9	8	9	12		18.7	30.0	
4-Nov-07	15	13	13	13	14	13	11	10	14	16	20	20	19	18	16	14	9	7	8	7	6	4	7	6		12.1	19.8	
5-Nov-07	5	5	5	5	6	7	7	9	11	11	14	12	10	11	9	9	12	11	10	7	9	6	6	8		8.6	14.3	
6-Nov-07	6	6	6	8	9	11	11	6	5	6	8	11	12	11	10	8	7	5	6	7	11	10	9	7		8.1	12.4	
7-Nov-07	7	10	10	9	9	7	6	6	5	6	7	7	6	7	6	7	5	9	10	15	12	9	7	6		7.9	15.0	
8-Nov-07	20	22	22	22	20	16	12	11	10	10	10	10	6	7	8	9	9	9	10	9	11	11	13	15		12.5	21.8	
9-Nov-07	16	16	18	16	14	14	15	15	13	11	10	9	8	7	6	5	6	7	8	8	7	8	7	6		10.4	18.5	
10-Nov-07	7	7	7	7	7	7	7	7	6	7	6	7	6	10	22	26	17	13	16	21	24	19	10	7	10		11.5	25.6
11-Nov-07	10	8	7	13	13	13	7	5	6	5	6	7	7	7	6	7	7	9	9	10	8	7	6	8		7.9	13.2	
12-Nov-07	7	8	9	9	11	9	12	13	13	13	13	12	14	12	11	10	9	6	9	12	17	15	21	29		12.2	29.2	
13-Nov-07	29	30	28	30	26	21	16	11	8	8	10	11	14	22	26	25	23	22	21	18	18	19	20	17		19.6	30.2	
14-Nov-07	14	8	11	17	16	14	12	12	15	11	9	12	14	11	8	6	8	9	11	12	12	13	14	14		11.8	16.7	
15-Nov-07	10	8	7	7	5	6	6	6	6	8	5	5	6	6	8	8	7	8	9	7	10	11	9	7		7.4	10.6	
16-Nov-07	7	7	7	7	6	6	6	7	7	5	5	6	7	7	6	8	8	8	9	7	8	10	9	8		7.1	9.9	
17-Nov-07	8	14	10	7	9	8	9	7	7	7	11	14	13	13	13	11	7	7	6	7	6	6	9	5		8.9	14.0	
18-Nov-07	6	6	10	10	21	18	15	10	12	12	7	13	15	13	16	16	14	13	16	11	11	7	7	6		11.9	21.1	
19-Nov-07	5	5	5	6	6	5	5	6	6	7	6	5	7	7	7	8	6	7	7	6	6	6	7	7		6.2	7.6	
20-Nov-07	6	6	8	11	8	7	8	9	9	10	9	10	12	12	8	6	6	9	9	6	6	6	6	5		8.0	12.0	
21-Nov-07	6	5	5	6	5	5	5	5	6	6	6	5	4	6	7	6	4	6	12	16	14	11	8	9		7.1	16.3	
22-Nov-07	8	10	8	12	9	7	10	10	7	7	8	6	10	14	13	11	8	6	7	7	6	5	7	6		8.4	13.5	
23-Nov-07	6	6	6	5	6	5	7	7	5	6	5	6	6	6	8	10	13	13	11	12	15	14	9	7		8.0	15.1	
24-Nov-07	6	11	7	7	14	21	20	24	25	17	17	26	28	22	22	23	17	23	20	16	22	20	24	25		19.0	27.9	
25-Nov-07	21	23	18	16	12	6	6	6	7	7	11	13	12	12	14	11	10	8	12	11	11	12	12	9		11.6	22.6	
26-Nov-07	11	12	11	13	14	15	13	15	15	18	18	16	16	15	14	14	13	14	11	10	7	6	8	8		12.8	17.9	
27-Nov-07	9	8	8	10	13	14	12	11	9	8	6	5	6	8	8	7	6	8	8	5	7	18	19	18		9.6	18.8	
28-Nov-07	16	14	12	12	11	9	8	8	8	9	11	8	7	6	6	7	7	6	6	7	6	6	7	7		8.6	16.1	
29-Nov-07	7	7	7	6	7	8	7	7	7	7	7	9	13	14	12	7	5	4	6	6	6	7	7	7		7.6	14.3	
30-Nov-07	7	7	10	14	13	12	12	8	9	11	16	15	15	18	17	13	12	12	16	17	15	13	12	14		12.9	18.3	
1-hr Average	11.0	11.3	11.0	11.4	11.7	11.2	10.9	10.5	10.5	10.4	11.0	11.3	12.1	12.7	12.6	11.4	10.1	10.1	11.4	11.2	11.3	10.5	10.4	10.7				
Hourly Max	29.3	29.6	27.7	30.2	25.6	22.2	27.0	30.0	29.6	29.7	32.2	31.6	33.2	32.8	34.1	33.5	26.8	22.6	27.1	28.9	27.8	23.0	24.3	29.2				

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

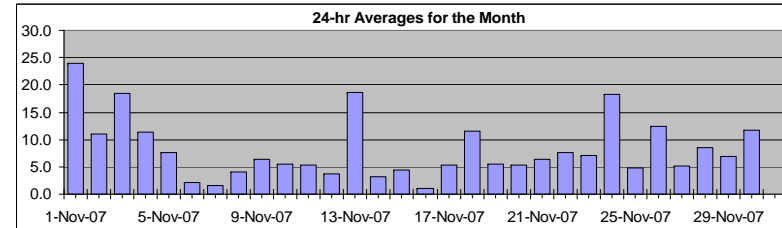
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	33.9	km/hr	1-Nov	14:00 15:00
Maximum 24-hr Value:	23.9	km/hr	1-Nov	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.9	23.5	13.3	8.9	6.1	3.5	1.7	22.0 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 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-Nov-07	23	25	25	21	23	22	22	26	28	30	32	31	33	33	34	33	27	22	16	18	15	12	11	16	23.9	33.9	
2-Nov-07	13	13	12	3	8	9	11	6	5	7	9	9	11	11	10	9	7	6	27	29	28	23	17	19	11.0	28.8	
3-Nov-07	19	19	22	15	16	20	26	30	30	27	29	20	24	24	23	16	14	14	11	10	8	8	9	12	18.4	29.9	
4-Nov-07	15	13	12	13	14	13	11	10	14	16	20	20	18	17	16	14	9	7	7	7	3	1	5	4	11.4	19.7	
5-Nov-07	4	3	5	5	6	7	7	8	11	11	14	11	10	11	9	9	12	11	10	7	9	5	3	7	7.6	14.1	
6-Nov-07	2	4	1	7	9	10	10	4	1	3	6	11	12	11	9	8	7	0	5	6	11	10	9	7	2.1	12.2	
7-Nov-07	7	10	10	9	9	6	4	6	2	4	2	7	5	6	5	7	2	7	10	15	11	6	6	5	1.7	14.9	
8-Nov-07	20	21	22	22	19	16	12	11	10	10	10	8	5	5	7	9	8	9	10	9	11	11	13	15	4.0	21.7	
9-Nov-07	16	16	18	16	14	14	15	15	13	11	10	9	7	6	5	2	5	5	7	7	6	7	7	5	6.4	18.4	
10-Nov-07	7	7	6	6	6	6	7	7	3	7	5	5	9	22	25	16	13	16	21	23	19	9	5	9	5.6	25.4	
11-Nov-07	10	8	4	13	12	12	7	4	6	5	5	6	7	5	5	7	6	8	9	10	8	7	6	8	5.3	12.9	
12-Nov-07	6	7	9	9	10	7	11	13	13	13	12	12	13	12	11	10	8	5	6	11	17	15	20	29	3.7	29.1	
13-Nov-07	29	29	28	30	26	21	16	10	7	7	10	11	13	22	25	25	23	22	21	18	18	19	20	17	18.7	30.2	
14-Nov-07	14	6	10	17	16	14	12	12	14	10	8	11	13	11	6	5	7	9	11	12	12	13	14	14	3.2	16.6	
15-Nov-07	10	8	7	4	2	5	4	5	6	7	3	2	5	5	8	8	7	8	8	7	10	10	9	7	4.5	10.2	
16-Nov-07	6	4	5	5	5	2	4	7	7	5	1	5	7	3	4	7	8	7	8	5	8	10	9	7	1.1	9.7	
17-Nov-07	7	13	10	6	5	6	9	6	7	7	11	14	13	13	12	11	7	6	6	6	5	5	8	2	5.3	13.8	
18-Nov-07	6	4	10	10	21	18	15	10	12	12	6	12	15	13	16	15	14	13	16	10	11	7	7	4	11.6	20.9	
19-Nov-07	5	3	4	5	2	1	4	3	5	6	5	5	6	7	7	7	4	5	7	6	5	5	6	7	5.6	7.4	
20-Nov-07	3	4	8	11	8	7	8	9	9	9	10	12	12	7	4	5	9	9	5	5	6	5	5	5	5.3	11.8	
21-Nov-07	5	5	5	6	5	5	5	5	5	5	6	3	2	5	7	6	2	4	12	16	14	11	7	9	6.3	16.0	
22-Nov-07	8	9	6	12	9	7	10	10	5	7	7	6	9	13	13	11	6	5	7	5	5	4	7	5	7.6	13.4	
23-Nov-07	6	6	5	4	6	2	7	6	2	5	3	4	5	6	8	10	13	13	10	12	15	14	9	6	7.2	15.0	
24-Nov-07	3	9	4	3	14	21	20	23	25	17	17	26	28	22	22	23	17	23	19	16	22	20	24	25	18.3	27.8	
25-Nov-07	21	22	18	16	10	4	5	6	7	4	11	13	12	11	14	10	10	8	12	11	11	11	11	8	4.7	22.5	
26-Nov-07	10	12	11	13	14	14	13	15	15	18	18	16	16	15	14	14	13	13	11	10	7	5	8	7	12.4	17.8	
27-Nov-07	9	8	7	10	13	14	12	11	9	8	6	4	3	7	7	6	6	7	7	4	6	18	19	18	5.2	18.8	
28-Nov-07	16	13	12	12	11	9	8	8	8	9	11	7	7	5	6	7	6	6	6	6	4	6	7	7	8.5	16.0	
29-Nov-07	6	7	7	6	7	8	7	7	7	7	9	13	14	12	6	5	3	5	5	5	6	7	6	7	6.9	14.2	
30-Nov-07	6	6	10	14	13	12	12	8	9	11	16	15	15	18	16	13	12	11	16	17	15	13	12	13	11.7	18.2	
1-hr Vector	5.4	4.9	4.9	5.2	5.7	5.6	4.8	4.2	4.6	4.6	4.5	4.8	5.6	6.0	5.9	4.6	3.3	2.9	4.0	4.8	4.5	4.0	3.8	4.3			
Hourly Max	29.3	29.5	27.6	30.2	25.5	22.1	26.3	29.9	29.5	29.7	32.1	31.4	33.0	32.6	33.9	33.4	26.7	22.6	27.0	28.8	27.8	22.7	24.3	29.1			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 720 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%
Percentile		
99	95	75
349.2	313.4	284.9
245.0	117.3	56.2
5	1	Average
20.1	263 deg	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
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-Nov-07	239	234	243	249	243	240	237	239	242	244	250	257	261	261	248	246	250	250	235	242	240	235	234	238	246	WSW
2-Nov-07	230	228	230	224	281	239	245	205	209	157	157	173	151	160	158	202	215	225	242	237	239	249	258	251	225	SW
3-Nov-07	251	263	261	237	235	242	249	238	237	243	241	233	241	244	240	229	234	242	240	237	273	281	252	242	244	WSW
4-Nov-07	240	260	286	302	302	299	312	301	301	299	295	292	293	286	287	292	305	301	303	299	250	307	239	222	289	WNW
5-Nov-07	300	343	126	111	115	118	92	97	96	91	95	108	104	142	144	124	103	103	101	98	102	120	78	106	105	ESE
6-Nov-07	214	228	331	154	192	225	293	237	84	204	282	294	281	295	277	249	265	357	57	60	81	88	50	50	274	W
7-Nov-07	53	82	78	75	75	70	77	136	222	290	227	163	195	185	197	176	240	258	253	242	249	248	37	338	194	SSW
8-Nov-07	301	302	294	282	295	296	275	278	278	279	293	267	322	166	118	92	76	93	83	85	82	88	78	81	312	NW
9-Nov-07	82	82	82	82	76	74	84	82	79	71	65	58	52	22	26	354	259	239	235	239	221	174	153	141	83	E
10-Nov-07	116	103	102	77	89	73	71	83	6	313	356	346	235	248	260	230	222	221	224	219	225	261	273	257	234	SW
11-Nov-07	233	222	175	249	235	237	223	126	174	144	179	158	203	213	189	169	126	133	130	145	137	101	73	130	179	S
12-Nov-07	90	105	115	103	87	68	93	92	96	98	97	94	91	80	55	43	71	40	358	253	240	250	258	275	88	E
13-Nov-07	274	281	282	283	285	292	298	258	236	237	248	249	273	261	260	257	251	245	243	246	250	242	246	240	263	W
14-Nov-07	238	280	282	242	235	231	221	228	240	237	290	279	257	225	197	125	72	73	79	84	74	74	72	75	226	SW
15-Nov-07	81	75	54	103	108	57	148	264	282	313	258	270	166	84	93	88	56	70	86	69	68	85	82	65	78	ENE
16-Nov-07	53	70	3	77	104	333	4	87	124	105	357	290	266	309	232	273	251	238	216	180	141	149	166	155	166	SSE
17-Nov-07	177	161	155	200	193	152	116	115	125	114	97	97	102	102	94	93	80	57	47	28	50	310	322	310	110	ESE
18-Nov-07	263	269	273	249	263	257	243	276	287	282	266	268	260	293	277	274	256	269	258	240	250	253	236	272	264	W
19-Nov-07	223	283	292	278	273	292	247	259	293	280	282	244	234	273	312	318	265	297	307	290	306	311	301	313	284	WNW
20-Nov-07	286	343	283	280	296	302	306	305	279	276	258	296	298	297	282	300	102	89	95	118	286	285	285	284	293	WNW
21-Nov-07	290	297	288	306	292	315	322	320	297	297	285	272	247	245	278	273	252	158	263	272	288	281	290	273	281	WNW
22-Nov-07	246	280	250	279	287	306	286	298	287	268	315	283	290	291	279	264	264	300	324	285	354	201	297	327	285	WNW
23-Nov-07	281	298	338	313	345	215	302	295	339	331	273	238	295	293	288	288	273	274	277	279	278	277	246	252	284	WNW
24-Nov-07	235	245	193	168	261	261	243	253	260	253	249	245	246	252	258	262	283	267	251	241	242	242	244	242	250	WSW
25-Nov-07	242	243	250	242	272	285	295	274	285	318	41	46	42	30	10	23	18	27	3	18	35	47	50	39	343	NNW
26-Nov-07	53	61	67	71	82	86	82	80	79	81	82	82	85	82	79	75	78	80	81	86	79	45	20	22	75	ENE
27-Nov-07	350	352	315	290	289	291	298	311	308	301	309	330	88	105	99	76	66	69	88	104	243	296	299	301	318	NW
28-Nov-07	299	295	291	286	290	296	301	289	295	294	284	288	287	291	274	284	302	304	319	294	297	302	292	306	294	WNW
29-Nov-07	309	294	285	259	247	280	294	271	262	279	280	257	246	244	267	285	210	302	287	312	296	302	311	301	276	W
30-Nov-07	304	312	278	280	273	269	265	238	237	249	253	268	276	295	303	323	331	303	283	297	305	316	318	318	288	WNW
Hourly Avg	262	271	273	262	266	269	267	254	258	265	267	261	257	260	261	262	261	262	257	248	255	265	279	274		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	79.6	58.6	25.5	13.4	7.5	4.8	3.8

Status Flag Characters

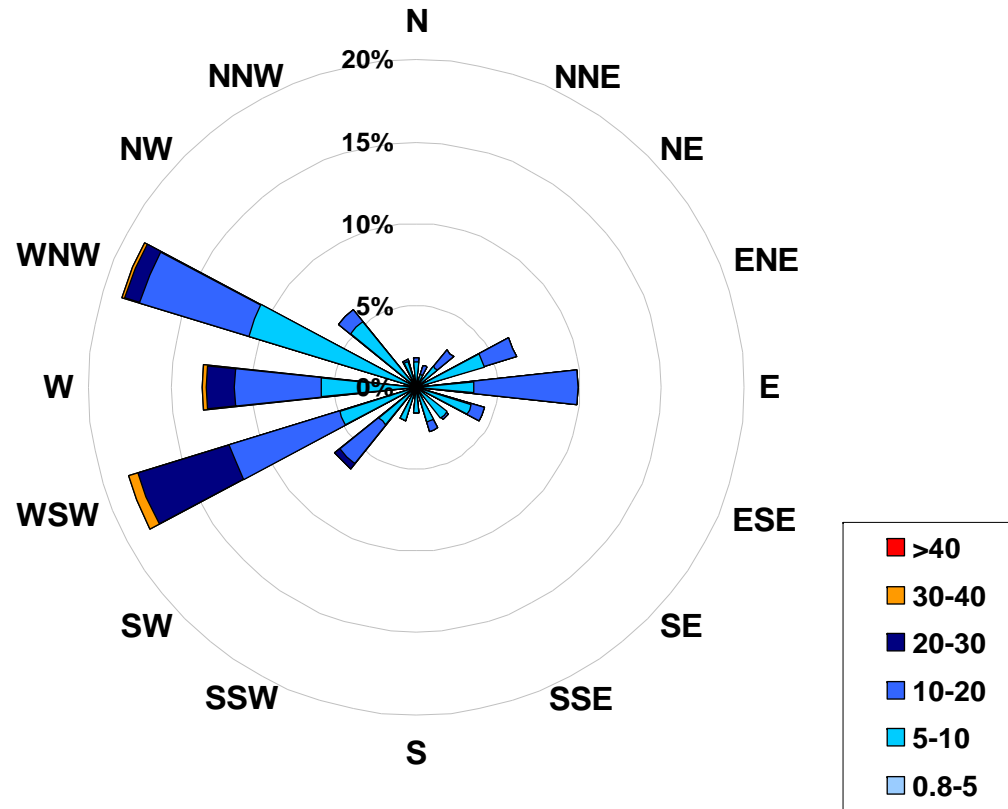
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Nov-07	5	6	5	8	4	5	4	5	3	5	6	7	6	6	6	5	5	5	7	3	5	6	11	5	10.7		
2-Nov-07	10	8	8	67	15	29	20	39	19	26	15	18	9	10	15	15	19	45	6	4	4	8	5	7	67.5		
3-Nov-07	10	4	10	8	7	6	13	4	4	5	5	6	6	6	5	7	7	6	8	8	14	11	10	10	14.5		
4-Nov-07	5	20	16	12	7	4	7	12	5	5	6	7	9	11	12	14	8	14	12	14	64	90	42	53	89.5		
5-Nov-07	37	57	14	12	10	11	7	8	6	7	9	13	12	17	14	22	11	8	11	13	14	51	68	43	67.9		
6-Nov-07	77	38	93	31	20	28	25	45	83	76	44	11	9	8	21	16	31	95	43	26	6	13	14	21	94.9		
7-Nov-07	13	8	9	11	9	29	56	29	74	42	76	26	40	28	31	19	77	37	21	7	20	50	28	45	77.4		
8-Nov-07	7	8	9	7	7	9	9	9	12	7	11	33	43	48	37	14	6	8	8	12	7	7	5	5	48.0		
9-Nov-07	4	5	5	6	7	7	7	5	7	12	9	22	20	31	28	64	53	36	24	27	18	28	22	42	64.1		
10-Nov-07	26	25	25	32	35	26	22	22	58	21	60	45	38	7	7	11	10	6	5	6	6	27	50	41	60.1		
11-Nov-07	8	14	64	14	6	10	23	47	26	24	30	41	23	40	33	17	32	14	10	12	15	10	18	16	64.4		
12-Nov-07	40	18	11	9	18	35	10	6	6	7	8	9	15	9	13	17	35	49	53	20	10	14	9	4	53.4		
13-Nov-07	4	4	4	4	4	5	7	13	16	16	9	14	11	6	4	5	5	6	4	7	7	6	5	5	15.9		
14-Nov-07	9	48	26	6	5	5	7	6	5	19	24	15	10	18	33	35	13	8	5	5	6	7	6	6	47.6		
15-Nov-07	10	17	17	51	75	30	44	52	14	15	54	63	24	40	14	13	14	12	14	19	12	15	10	13	75.0		
16-Nov-07	16	71	44	49	41	80	50	21	26	24	85	44	23	75	51	54	20	29	36	54	12	12	12	35	84.9		
17-Nov-07	44	16	15	38	59	32	12	20	16	12	11	9	8	9	14	10	21	16	17	26	28	51	9	78	77.9		
18-Nov-07	18	41	7	22	8	6	6	12	11	9	34	18	5	15	5	6	8	9	7	15	20	21	23	44	44.3		
19-Nov-07	24	50	34	33	72	86	35	54	34	18	18	19	22	7	17	20	50	39	27	19	22	37	23	12	86.2		
20-Nov-07	76	44	8	6	13	19	10	13	12	13	12	15	11	11	19	43	43	13	9	35	62	18	20	25	76.2		
21-Nov-07	12	24	14	9	17	26	19	12	27	17	12	44	66	38	12	11	60	49	7	12	10	21	18	11	66.0		
22-Nov-07	24	22	52	13	11	8	9	16	47	15	24	23	16	9	7	10	34	39	24	45	43	36	14	33	52.3		
23-Nov-07	16	11	29	45	21	75	9	9	76	38	64	46	32	23	11	10	9	7	15	8	7	7	14	27	76.1		
24-Nov-07	63	40	83	71	12	6	6	6	8	7	5	6	5	4	4	8	5	8	7	4	5	4	4	4	82.7		
25-Nov-07	5	4	7	5	39	49	35	17	15	53	12	18	14	14	14	18	21	21	12	12	15	11	11	18	52.7		
26-Nov-07	15	13	14	11	9	10	8	7	7	6	7	7	9	8	7	8	9	8	10	14	17	25	17	19	25.3		
27-Nov-07	15	18	25	7	5	5	7	6	12	14	23	59	70	17	22	22	26	14	21	39	41	5	6	5	69.8		
28-Nov-07	5	5	7	7	9	10	15	9	15	24	10	14	12	26	20	7	17	10	18	34	56	21	13	14	55.6		
29-Nov-07	35	15	9	25	13	11	5	18	17	13	12	15	7	7	5	23	37	51	34	24	10	8	13	18	51.4		
30-Nov-07	16	26	17	4	5	7	11	12	10	9	7	9	11	7	7	12	18	11	4	7	5	11	6	5	25.7		

Hourly Max	77	71	93	71	75	86	56	54	83	76	85	63	70	75	51	64	77	95	53	54	64	90	68	78
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		15
5	to 10		378
10	to 20		256
20	to 30		64
30	to 40		7
	> 40		0
Total Non-Zero Values			720

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

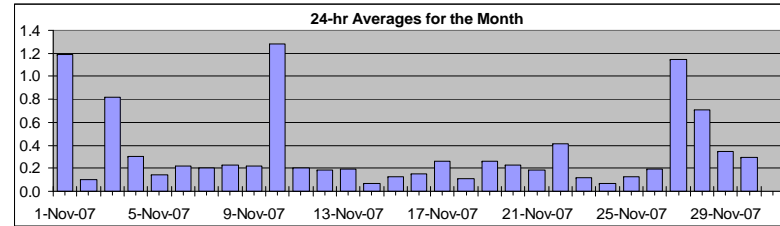
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	9.2	ppb	10-Nov	4:00 5:00
Maximum 24-hr Average:	1.3	ppb	10-Nov	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.0	0.3	0.2	0.1	0.0	0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Nov-07	0	0	0	0	0	0	0	1	5	A	8	1	3	3	1	5	0	0	0	0	0	0	0	0	1.2	7.7
2-Nov-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
3-Nov-07	0	0	0	0	0	0	0	A	0	3	2	5	1	1	3	0	0	1	1	1	0	0	0	0	0.8	4.7
4-Nov-07	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
5-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.1	1.7
6-Nov-07	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
7-Nov-07	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	0.4
8-Nov-07	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.2	1.5
9-Nov-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Nov-07	A	1	1	2	9	5	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	A	1.3	9.2
11-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
12-Nov-07	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.7
13-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0.2	1.2
14-Nov-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.6
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0.1	0.4
16-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.5
17-Nov-07	0	0	0	0	A	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0.3	2.2
18-Nov-07	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	0.2
19-Nov-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.3	0.7
20-Nov-07	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
21-Nov-07	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5
22-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	0	0	0	0	A	0	0.4	1.6
23-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.4
24-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.1
25-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.4
26-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4
27-Nov-07	0	1	1	2	2	1	1	0	1	2	1	1	1	1	1	3	2	A	1	1	1	3	2	0	1.1	2.9
28-Nov-07	0	0	1	3	5	1	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0.7	4.7
29-Nov-07	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	1	0	0.3	0.6
30-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.4
Hourly Avg	0.1	0.2	0.2	0.4	0.7	0.3	0.2	0.2	0.4	0.3	0.6	0.5	0.5	0.5	0.5	0.6	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1		
Hourly Max	0.4	0.7	1.0	2.8	9.2	4.6	1.9	0.8	5.5	3.1	7.7	4.7	3.2	2.8	2.6	5.1	1.7	1.2	1.2	0.8	0.7	2.9	2.0	0.5		

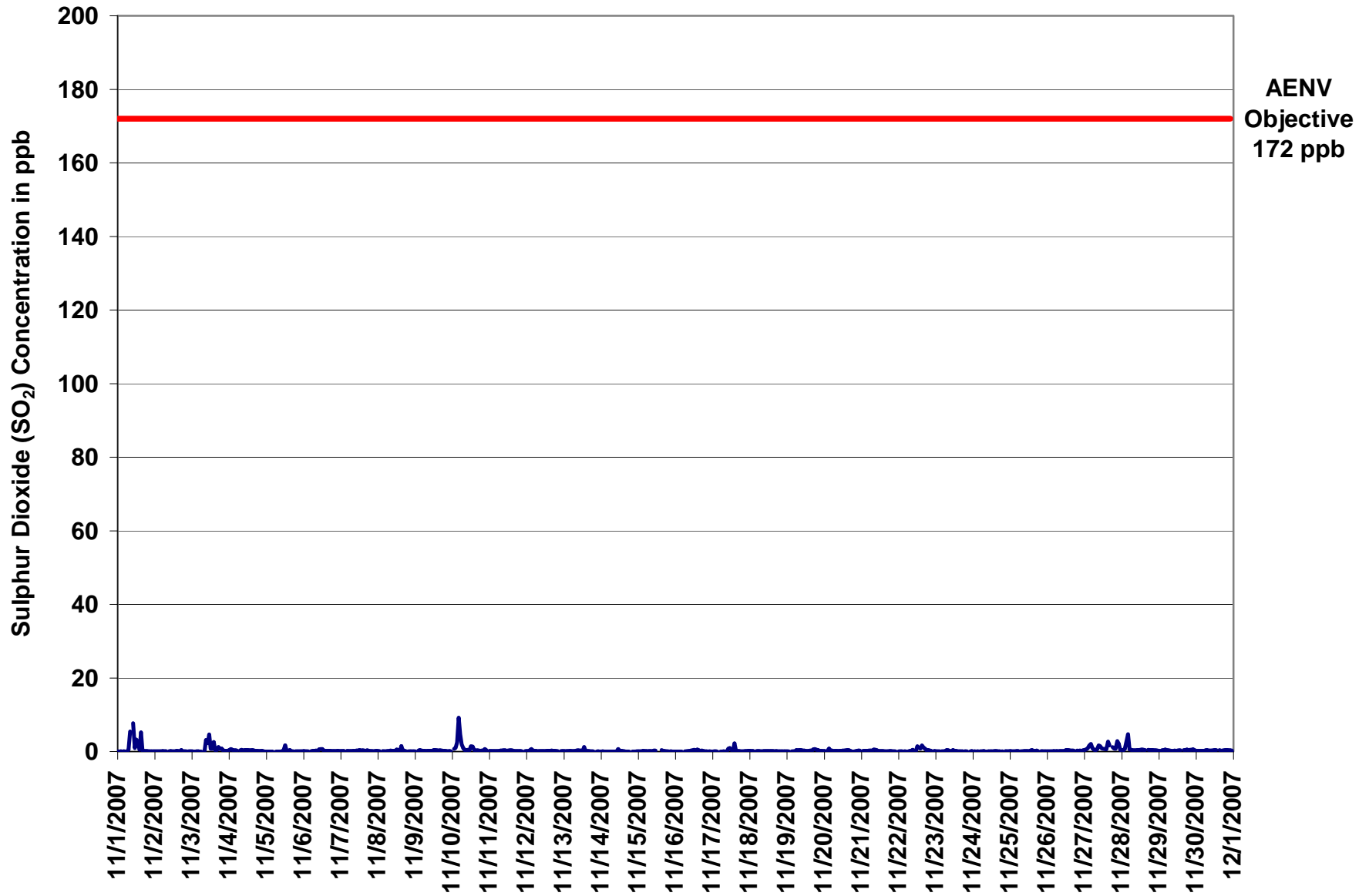


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

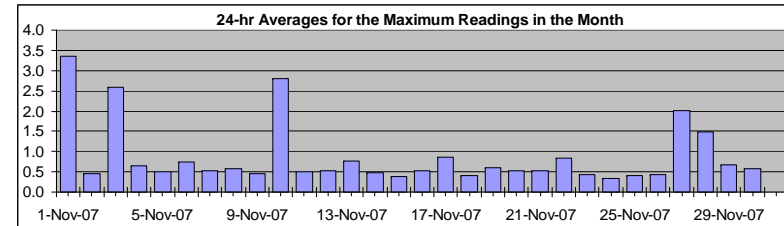
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	16.5	ppb	10-Nov	4:00 5:00
Maximum 24-hr Value:	3.4	ppb	1-Nov	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.5	2.9	0.7	0.4	0.3	0.3	0.2	0.9 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-Nov-07	0	0	0	0	0	0	0	3	10	A	13	6	8	11	5	15	0	0	0	0	1	0	0	0	3.4	15.4
2-Nov-07	0	0	0	0	1	0	1	1	A	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0.4	1.8
3-Nov-07	0	0	0	0	0	0	0	A	1	9	7	14	1	6	10	2	1	3	1	1	1	0	0	0	2.6	13.9
4-Nov-07	1	1	1	1	1	0	A	1	2	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0.6	1.5
5-Nov-07	0	0	0	0	0	A	0	0	0	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0.5	2.7
6-Nov-07	1	0	0	0	A	0	1	0	1	1	2	3	3	1	0	1	0	1	0	0	0	1	0	0	0.8	3.4
7-Nov-07	0	0	0	A	0	1	0	0	1	0	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0.5	0.9
8-Nov-07	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	3	1	0	0	0	0	0	0	0	0.6	2.7
9-Nov-07	0	A	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0.5	0.6
10-Nov-07	A	1	2	4	16	9	5	2	1	1	1	1	7	5	1	0	0	1	0	2	0	1	1	A	2.8	16.5
11-Nov-07	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	A	0	0.5	0.7
12-Nov-07	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	A	0	0	0.5	2.1
13-Nov-07	0	0	0	1	1	0	0	0	1	1	1	1	2	7	0	0	0	0	0	0	A	0	0	0	0.8	7.3
14-Nov-07	0	0	0	0	0	1	0	0	0	0	0	3	1	1	1	0	0	0	0	A	0	0	0	0	0.5	3.1
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	1	0	0	0	0	0	0	0	0	0.4	0.6
16-Nov-07	0	0	0	0	0	A	0	0	0	0	1	1	3	1	1	1	1	1	1	0	0	0	0	0	0.5	2.9
17-Nov-07	0	0	0	0	A	0	0	0	0	0	3	3	1	1	5	1	0	0	0	0	0	0	0	0	0.9	5.4
18-Nov-07	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
19-Nov-07	0	0	A	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	0	0.6	1.2
20-Nov-07	0	A	1	2	1	1	0	1	0	0	0	1	1	0	1	1	1	0	0	0	0	1	1	1	0.5	1.8
21-Nov-07	A	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0	0	A	0.5	1.1
22-Nov-07	0	0	0	0	0	0	0	0	1	1	1	0	3	2	1	2	2	1	1	1	0	0	A	0	0.8	3.1
23-Nov-07	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	A	0	0	0.4	1.0
24-Nov-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	A	1	0	0	0.3	0.7
25-Nov-07	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	0	0	0	0	0.4	0.9
26-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	A	1	0	1	1	1	0.4	0.6
27-Nov-07	1	1	1	4	3	2	1	1	1	3	2	1	1	1	1	6	2	A	2	1	1	7	4	1	2.0	6.7
28-Nov-07	1	1	1	9	9	1	1	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	1.5	9.5
29-Nov-07	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	A	1	1	1	1	1	1	1	1	0.7	1.0
30-Nov-07	0	0	0	0	0	0	1	1	0	0	0	1	1	1	A	1	0	1	0	1	1	0	1	1	0.6	1.3
Hourly Avg	0.4	0.5	0.5	1.0	1.4	0.8	0.6	0.7	0.9	0.9	1.3	1.5	1.5	1.5	1.3	1.4	0.6	0.7	0.5	0.6	0.5	0.7	0.6	0.4		
Hourly Max	0.9	1.4	1.6	8.8	16.5	8.8	5.4	3.3	9.9	9.0	12.5	13.9	8.3	11.2	10.2	15.4	2.2	2.9	1.7	2.2	1.2	6.7	4.0	0.8		

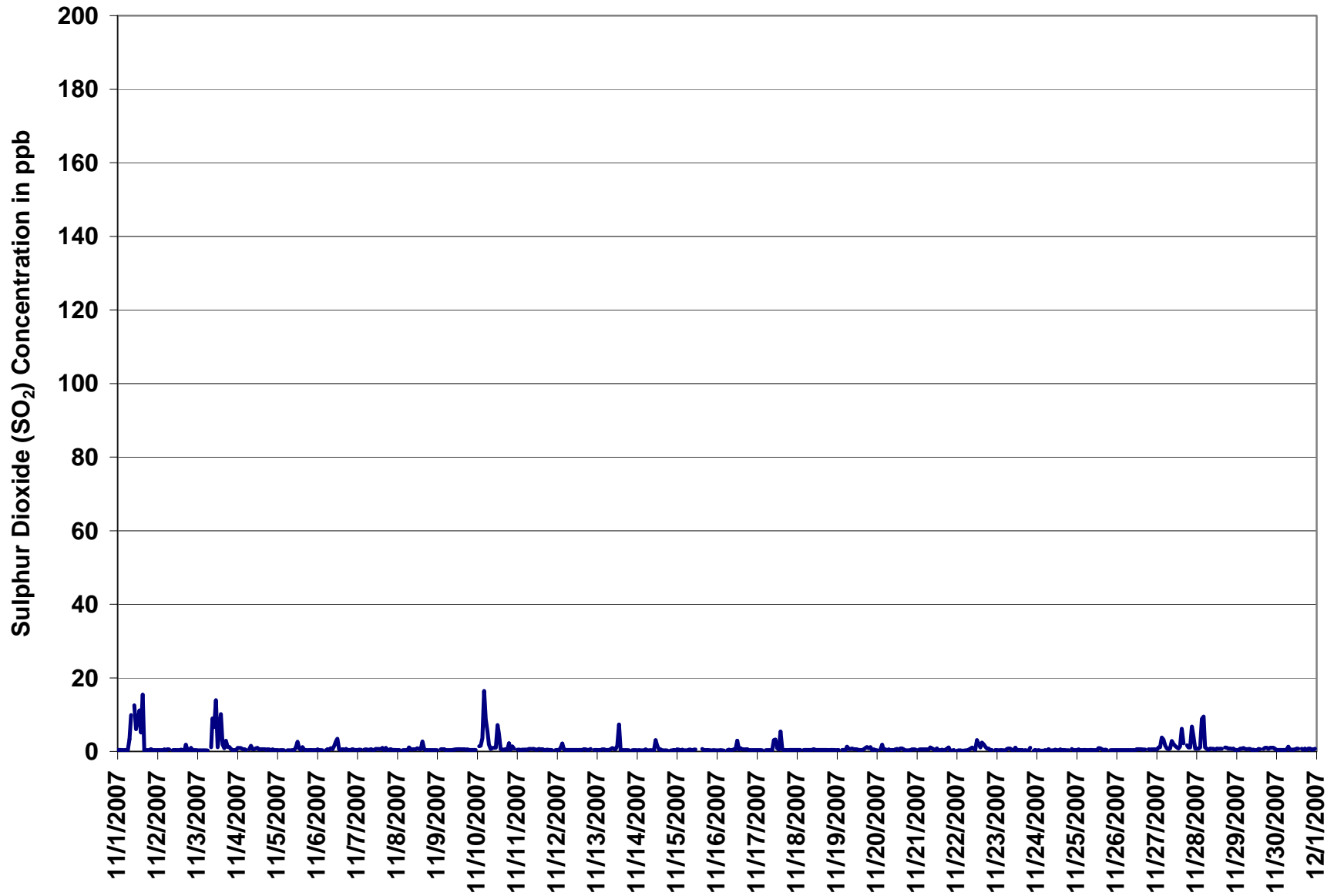
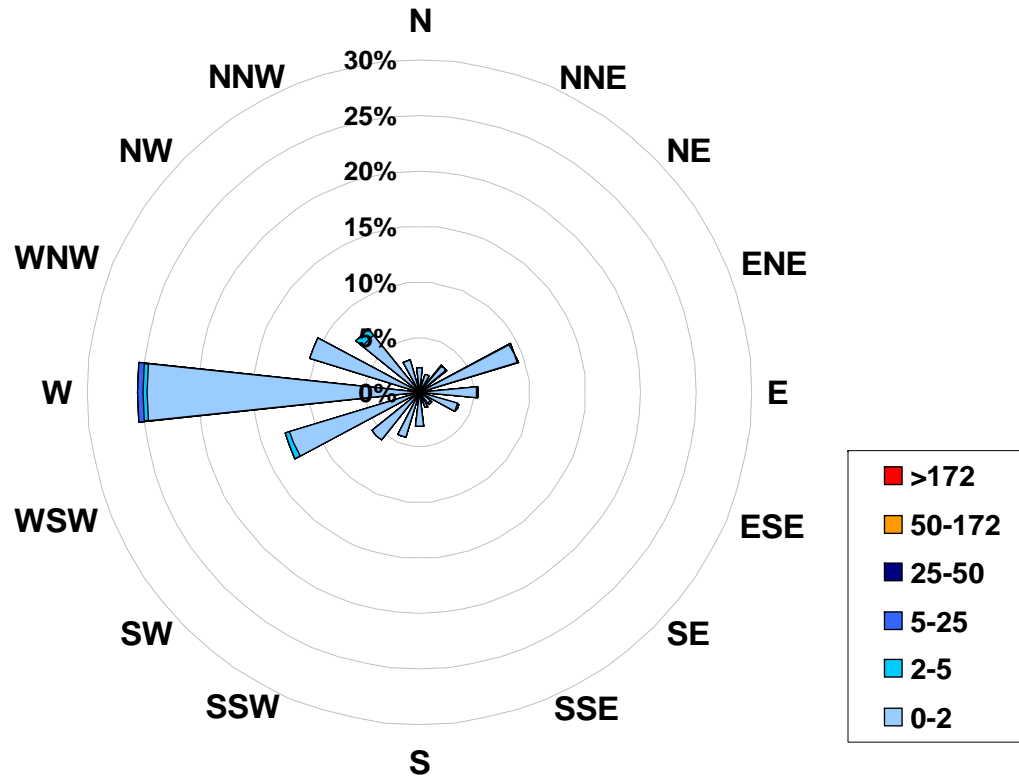


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		667
2	to 5		15
5	to 25		4
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			686

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

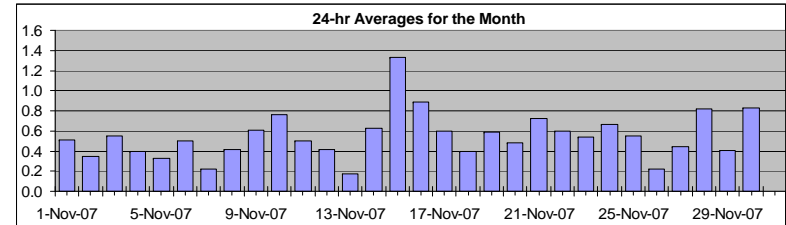
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	2.0	ppb	15-Nov	8:00 9:00
Maximum 24-hr Value:	1.3	ppb	15-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.1	0.7	0.5	0.3	0.0	0.0	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
1-Nov-07	0	0	1	0	0	0	0	0	1	1	A	1	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0.5	1.3
2-Nov-07	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0.3	0.9
3-Nov-07	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0.6	0.9	
4-Nov-07	0	0	0	0	1	1	A	0	1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0.4	0.7	
5-Nov-07	0	0	0	0	0	A	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
6-Nov-07	0	1	0	0	A	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	1	0	0	0	0.5	0.7	
7-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
8-Nov-07	0	0	A	1	1	1	1	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0.4	1.0	
9-Nov-07	0	A	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	1.0	
10-Nov-07	A	1	1	1	2	1	1	1	0	0	1	0	1	1	1	0	1	0	1	1	1	1	1	1	A	0.8	1.7	
11-Nov-07	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	A	1	0.5	1.0	
12-Nov-07	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	A	1	0.4	0.7	
13-Nov-07	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0.2	0.8	
14-Nov-07	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	1	1	1	0.6	1.1	
15-Nov-07	1	1	1	1	1	1	2	2	2	C	C	C	A	2	2	2	2	2	1	1	1	1	1	0	1.3	2.0		
16-Nov-07	0	0	1	1	1	A	1	0	0	0	1	1	2	2	2	1	1	1	1	1	1	1	0	1	0.9	1.9		
17-Nov-07	1	0	1	1	A	0	0	0	1	0	1	1	1	0	1	0	0	1	1	1	1	1	1	1	0.6	1.2		
18-Nov-07	1	1	1	A	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.9		
19-Nov-07	1	1	A	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0.6	0.9		
20-Nov-07	0	A	1	1	0	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0.5	0.8		
21-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	A	0.7	1.2		
22-Nov-07	0	0	0	0	0	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	A	1	0.6	1.4		
23-Nov-07	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1	1	A	1	0.5	0.8		
24-Nov-07	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	0.9		
25-Nov-07	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	A	1	1	0	0	0.6	0.9		
26-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	0	0	1	0	0.2	0.6		
27-Nov-07	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	A	0	0	0	1	1	0.4	0.9		
28-Nov-07	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.5		
29-Nov-07	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	0	0	0.4	0.9		
30-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	0	0.8	1.2	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6			
Hourly Max	1.1	1.2	1.3	1.4	1.7	1.5	1.9	1.8	2.0	1.4	1.3	1.5	1.8	1.9	1.7	1.6	1.6	1.6	1.7	1.4	1.3	1.3	1.5	1.5	1.4			

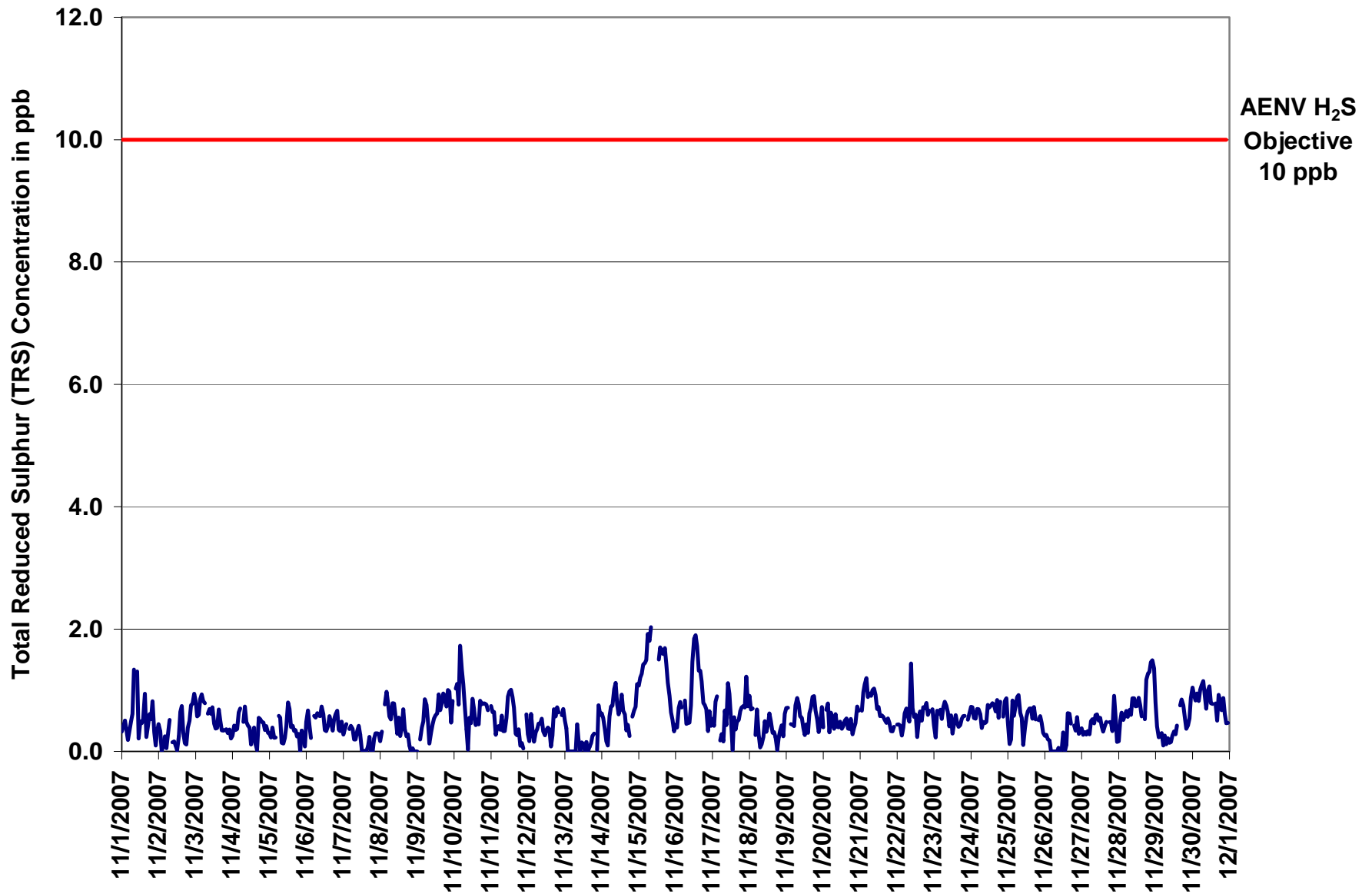


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

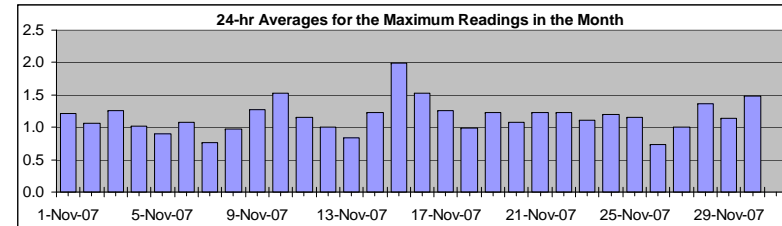
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	3.3	ppb	22-Nov	15:00 16:00
Maximum 24-hr Value:	2.0	ppb	15-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.0	1.4	1.1	0.9	0.6	0.4	1.2 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-Nov-07	1	1	1	1	1	1	1	1	2	A	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1.2	2.3
2-Nov-07	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1.1	1.6
3-Nov-07	1	1	1	1	2	2	1	A	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.1
4-Nov-07	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7
5-Nov-07	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	1.3
6-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.3
7-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0.8	1.1
8-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1.0	1.5
9-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	2	2	1	2	1.3	1.8
10-Nov-07	A	2	2	2	3	2	2	1	1	1	1	1	2	2	1	1	1	2	1	2	1	1	A	1	1.5	2.7
11-Nov-07	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	1.6
12-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	1	1.0	2.1
13-Nov-07	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.5
14-Nov-07	1	1	1	1	1	1	1	2	2	2	2	1	1	2	1	1	1	1	A	1	1	1	2	1	1.2	1.7
15-Nov-07	2	2	2	2	2	2	2	3	C	C	C	A	2	2	2	2	2	2	2	1	1	1	1	1	2.0	2.6
16-Nov-07	1	1	1	1	1	A	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1.5	2.5
17-Nov-07	1	1	1	1	A	1	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	1	2	1	1.3	2.2
18-Nov-07	2	1	1	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
19-Nov-07	1	1	A	1	1	1	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.2	1.8
20-Nov-07	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.7
21-Nov-07	A	1	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	1.7
22-Nov-07	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	3	1	1	1	2	1	1	A	1	1.2	3.3
23-Nov-07	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
24-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1.2	1.5
25-Nov-07	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.2	1.5
26-Nov-07	1	1	1	1	0	0	1	0	1	1	0	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.2
27-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	2	1	1.0	1.6
28-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	2	2	2	2	2	2	1.4	2.0
29-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	2	1	1.1	1.9
30-Nov-07	1	1	1	1	1	1	2	2	1	1	2	1	1	1	A	1	1	2	2	1	2	1	1	1	1.5	2.2
Hourly Avg	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.2	1.3	1.1	1.2	1.2	1.2	1.1	1.1	1.2	1.2		
Hourly Max	1.9	1.9	1.7	2.2	2.7	2.2	2.4	2.3	2.6	2.0	2.1	2.4	2.4	2.5	2.3	3.3	2.2	2.3	2.0	2.2	1.7	2.0	2.2	1.8		

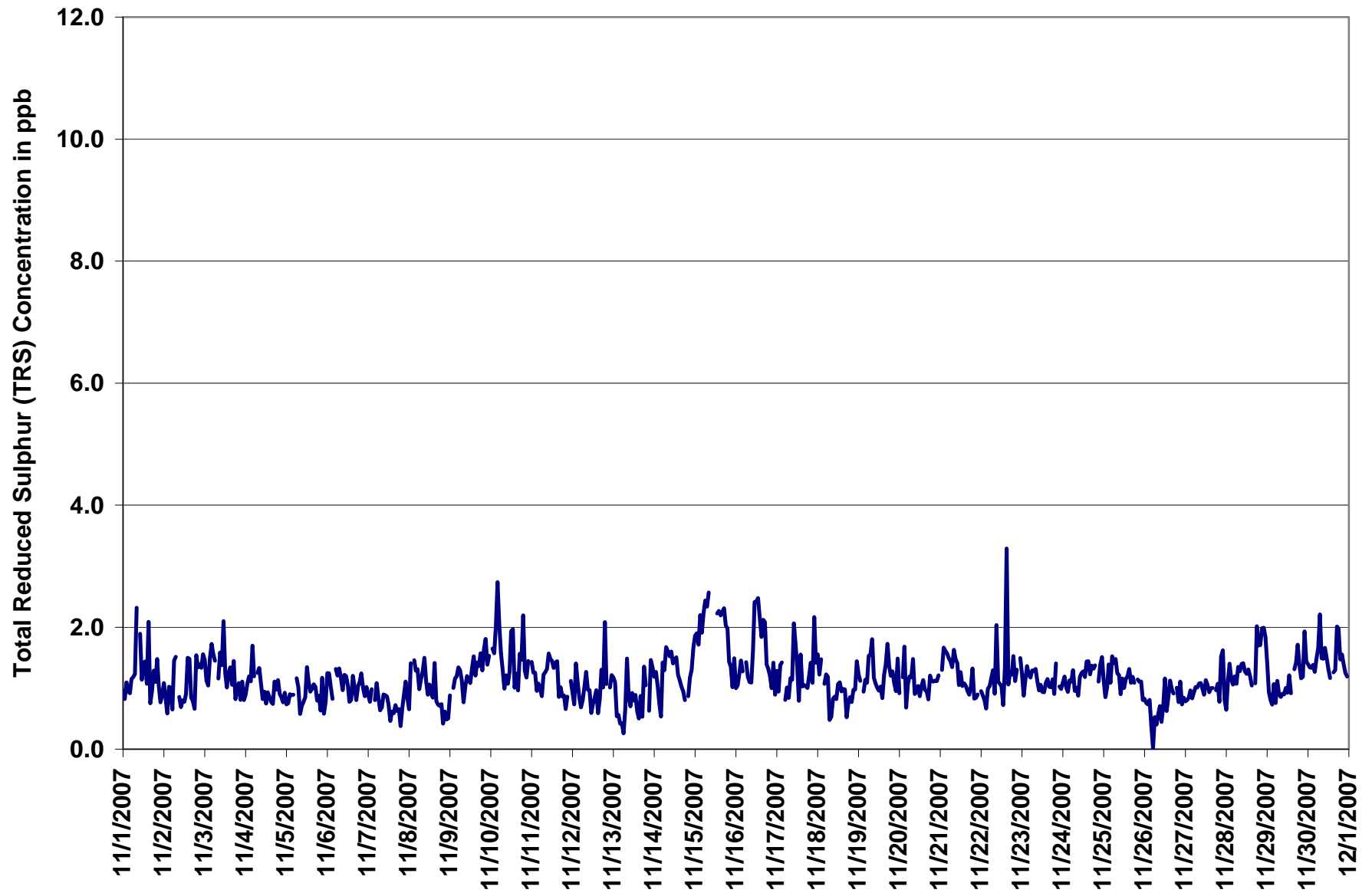
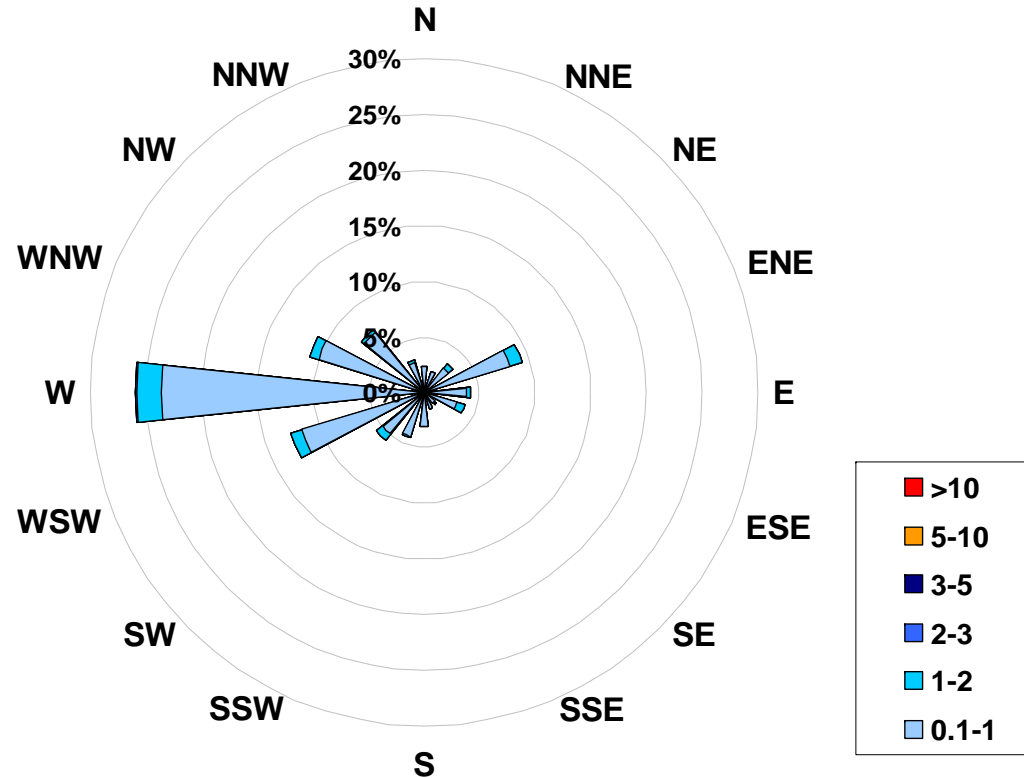


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for November 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	631
1	to	2	52
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			685

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

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

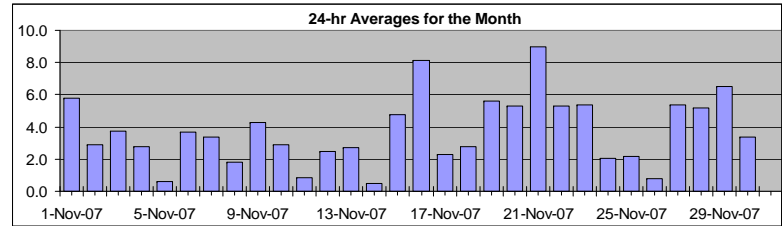
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	28.8 µg/m ³ 1-Nov 9:00 10:00
Maximum 24-hr Value:	9.0 µg/m ³ 21-Nov

AIC Time:	0 hrs	Operational Time:	712 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	98.9%
Percentile	99	95	75
	16.1	11.1	5.4
	5.0	2.5	1.0
	5	1	0.0
	0.0	0.0	0.0
	Average / Median		3.7
	3 µg/m ³		3.0
	µg/m 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			23:00
1-Nov-07	2	2	2	2	1	1	2	3	24	29	23	D	7	8	0	21	0	1	0	0	0	1	2	3	5.8	28.8	
2-Nov-07	4	4	3	3	2	1	4	7	4	3	2	1	1	3	0	1	3	8	1	1	2	4	3	4	2.9	8.5	
3-Nov-07	3	3	2	1	2	0	4	3	2	16	9	15	D	0	10	0	0	2	2	2	2	2	2	2	3.7	15.9	
4-Nov-07	2	3	1	1	1	1	1	5	6	5	1	1	1	1	1	1	2	4	6	6	6	6	4	1	2.8	6.5	
5-Nov-07	1	0	1	0	1	0	0	2	3	1	0	0	0	0	0	2	0	0	0	0	0	0	1	0	1	0.6	2.8
6-Nov-07	2	2	3	2	3	2	3	4	5	4	11	7	3	0	1	4	5	5	3	3	5	3	3	3	3.7	11.2	
7-Nov-07	3	2	2	2	2	2	3	2	3	4	6	6	6	4	5	5	5	6	0	0	0	2	4	5	3.4	6.5	
8-Nov-07	7	3	2	2	1	1	2	3	5	4	4	0	1	0	0	3	1	1	0	0	0	0	1	2	1.8	6.8	
9-Nov-07	2	0	0	2	3	7	7	5	4	5	4	7	3	3	4	4	8	7	5	3	4	4	5	6	4.2	7.9	
10-Nov-07	7	4	4	3	4	2	2	1	2	4	5	3	17	12	0	1	0	0	0	0	0	0	0	0	2.9	16.8	
11-Nov-07	1	0	0	0	0	0	1	2	2	5	2	0	0	0	0	3	0	1	1	1	1	1	0	0	0.8	4.6	
12-Nov-07	1	1	2	1	0	0	0	0	0	0	D	0	D	D	0	1	3	3	4	9	9	5	6	5	4	2.5	8.6
13-Nov-07	1	3	3	3	3	2	2	3	6	7	4	3	2	4	2	6	4	3	2	2	0	0	0	0	2.7	6.6	
14-Nov-07	1	1	1	1	0	0	0	1	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.2	
15-Nov-07	1	1	1	4	3	4	4	4	7	4	6	4	4	5	12	5	5	6	5	5	5	7	5	5	4.8	12.2	
16-Nov-07	6	8	6	7	6	7	8	7	6	7	11	11	12	10	11	13	12	9	13	8	5	4	3	4	8.1	13.4	
17-Nov-07	2	0	0	1	0	0	D	0	2	0	1	D	0	0	0	0	0	0	1	7	8	8	9	10	2.3	10.3	
18-Nov-07	11	10	8	6	3	5	0	1	0	1	0	0	0	0	0	0	0	1	1	1	1	1	8	8	2.8	11.0	
19-Nov-07	5	3	1	0	1	4	6	7	5	8	6	8	6	2	4	7	10	11	10	6	6	6	6	6	5.6	11.2	
20-Nov-07	5	5	5	4	6	4	3	4	5	P	6	7	3	3	1	3	3	2	2	2	8	14	15	12	5.3	14.5	
21-Nov-07	14	16	14	15	16	15	16	15	18	16	14	2	1	1	5	6	5	3	4	3	3	3	4	6	9.0	17.9	
22-Nov-07	6	4	1	2	2	2	2	4	6	14	6	4	4	4	5	8	7	8	8	8	6	5	5	7	5.3	13.8	
23-Nov-07	5	7	7	6	5	7	7	10	10	9	12	4	7	3	1	1	2	2	2	2	2	3	3	5	5.3	11.9	
24-Nov-07	3	3	3	3	3	3	2	3	2	1	0	1	2	2	3	1	3	1	1	1	2	2	2	2	2.1	3.4	
25-Nov-07	2	2	2	1	1	1	2	2	2	3	3	2	1	3	2	3	4	3	2	3	3	0	2	3	2.2	3.9	
26-Nov-07	2	1	3	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	4	0.8	3.6	
27-Nov-07	4	5	5	5	5	4	4	3	4	6	7	7	6	6	6	7	7	6	6	8	7	6	5	3	5.4	7.9	
28-Nov-07	2	2	2	2	2	1	1	2	2	3	3	3	4	7	5	5	5	7	11	10	11	11	13	11	5.2	13.4	
29-Nov-07	11	14	9	6	7	7	7	7	7	8	9	6	3	5	4	4	5	4	6	6	5	7	6	5	6.5	13.8	
30-Nov-07	6	6	6	9	10	7	5	5	6	4	4	3	2	1	1	2	0	0	1	0	1	0	0	0	3.4	10.0	
Hourly Avg	4.1	3.9	3.4	3.2	3.1	3.0	3.4	3.9	4.9	6.1	5.3	4.3	3.3	3.1	2.8	4.0	3.3	3.6	3.4	3.3	3.3	3.6	4.0	4.0			
Hourly Max	13.6	16.1	14.3	14.9	15.8	15.2	15.5	14.9	23.6	28.8	23.5	14.7	16.8	12.0	12.2	20.9	12.5	11.2	12.7	9.8	11.1	13.9	14.5	11.7			

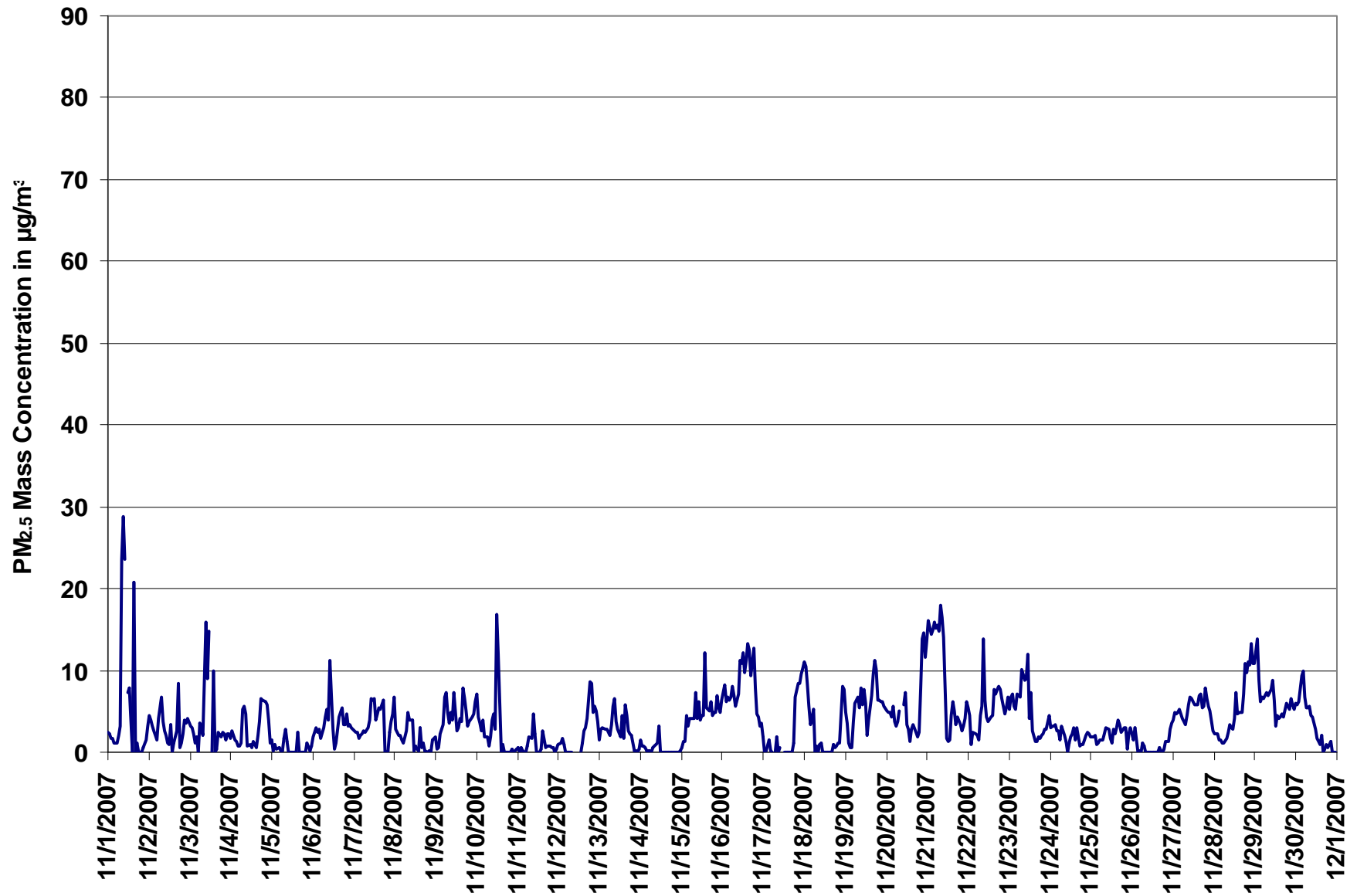


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

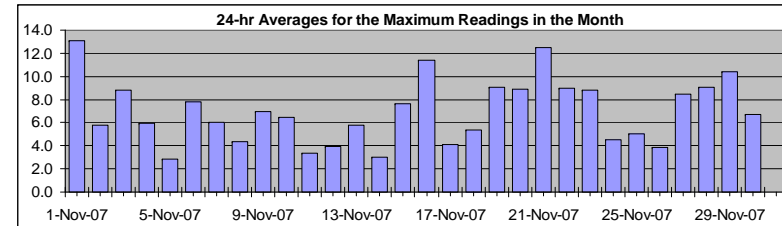
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	58.2	µg/m ³	1-Nov	15:00 16:00
Maximum 24-hr Value:	13.0	µg/m ³	1-Nov	

AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	33.1	16.7	8.9	5.6	3.5	1.3	0.0	7.0	6.4 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-Nov-07	5	5	4	5	4	2	4	8	43	46	34	4	26	37	7	58	1	3	1	1	2	4	4	5	13.0	58.2
2-Nov-07	7	7	6	5	4	3	7	13	7	5	6	6	5	5	2	3	5	12	5	3	4	6	4	5	5.8	12.7
3-Nov-07	6	6	4	4	5	2	11	8	5	36	24	37	0	3	27	1	3	5	4	4	4	3	4	5	8.8	36.8
4-Nov-07	4	5	3	3	3	3	3	14	13	14	3	3	2	3	3	3	6	8	10	8	8	8	7	4	5.9	14.3
5-Nov-07	4	2	4	4	5	4	3	4	7	5	2	1	2	1	1	5	1	2	1	1	2	3	3	3	2.8	6.9
6-Nov-07	4	5	5	5	5	4	8	10	10	8	17	17	14	4	3	9	7	12	11	6	7	5	5	4	7.8	17.2
7-Nov-07	5	4	5	4	4	4	5	4	5	6	9	8	13	6	6	7	7	9	2	2	1	12	11	8	6.0	12.5
8-Nov-07	10	7	5	4	4	3	5	4	8	8	7	2	4	2	2	7	2	3	3	2	2	2	4	3	4.4	10.0
9-Nov-07	5	4	2	4	6	11	11	7	6	7	7	10	5	5	6	6	13	10	8	6	6	7	7	8	6.9	13.0
10-Nov-07	9	7	5	6	7	4	5	4	5	6	8	7	34	30	2	3	2	1	1	2	2	2	2	2	6.5	33.7
11-Nov-07	2	2	3	5	2	1	3	5	5	8	7	3	1	2	4	6	4	3	3	3	3	3	2	3	3.4	7.9
12-Nov-07	4	4	4	4	2	1	1	0	0	0	0	0	0	0	4	4	6	7	13	12	6	8	8	6	4.0	13.0
13-Nov-07	4	5	5	5	5	5	4	7	9	9	7	4	5	18	5	10	7	6	5	5	3	3	2	3	5.8	17.6
14-Nov-07	4	3	3	3	2	3	2	3	4	4	3	11	9	2	2	0	1	2	2	1	2	0	3	3	3.0	10.6
15-Nov-07	2	4	4	8	6	6	8	6	14	9	10	6	6	9	15	9	7	9	7	6	9	10	8	7	7.7	14.8
16-Nov-07	10	14	8	12	12	8	10	10	9	9	17	13	20	13	15	16	15	13	16	12	7	6	5	6	11.4	20.5
17-Nov-07	4	2	3	3	3	1	0	3	5	2	3	3	0	0	1	0	1	2	4	14	13	10	12	12	4.1	13.9
18-Nov-07	13	13	12	8	6	7	4	4	3	3	5	2	1	1	0	1	1	3	2	4	3	4	16	12	5.4	16.3
19-Nov-07	7	7	4	3	2	8	11	12	9	10	13	11	13	5	6	10	12	14	14	8	11	9	8	9	9.0	14.3
20-Nov-07	8	8	7	8	8	7	5	6	7	P	10	14	6	5	4	5	6	6	4	6	20	19	18	14	8.9	19.7
21-Nov-07	18	21	17	18	19	19	18	17	23	20	21	7	5	3	8	9	7	7	10	5	5	5	7	9	12.5	22.7
22-Nov-07	10	7	4	6	5	5	7	7	10	20	19	7	6	6	6	14	11	10	11	12	8	8	8	10	9.0	19.7
23-Nov-07	9	9	9	8	9	11	12	16	15	13	13	18	11	11	10	3	3	4	3	4	4	5	5	7	8.8	17.5
24-Nov-07	6	6	7	8	4	4	3	6	4	7	2	4	4	4	5	3	5	3	3	3	5	4	5	5	4.5	7.5
25-Nov-07	4	4	4	3	3	3	4	5	5	5	7	6	3	5	6	6	7	7	7	8	6	3	6	6	5.1	7.5
26-Nov-07	6	4	7	4	6	4	6	3	3	2	2	1	2	3	4	3	3	3	3	3	4	4	6	6	3.8	7.2
27-Nov-07	6	8	8	8	10	7	6	7	8	8	9	9	9	9	9	10	10	8	9	11	10	9	9	6	8.5	11.2
28-Nov-07	5	5	5	5	6	4	4	5	6	7	6	6	8	11	7	7	7	12	24	14	16	14	20	15	9.1	23.6
29-Nov-07	14	27	13	9	9	9	10	11	10	11	12	10	7	7	6	7	9	8	11	8	10	9	10	10	10.4	27.3
30-Nov-07	15	9	10	12	13	11	9	9	8	7	7	7	5	3	3	7	3	4	4	4	5	2	3	1	6.7	15.2
Hourly Avg	7.1	7.1	6.0	6.1	5.9	5.5	6.3	7.3	8.8	10.3	9.6	7.8	7.5	7.1	6.0	7.8	5.7	6.5	6.7	5.9	6.3	6.3	7.0	6.6		
Hourly Max	17.7	27.3	17.4	17.7	18.7	18.7	18.4	17.3	42.8	45.6	34.2	36.8	33.7	37.3	26.6	58.2	15.3	14.3	23.6	13.9	19.7	19.5	19.5	14.7		

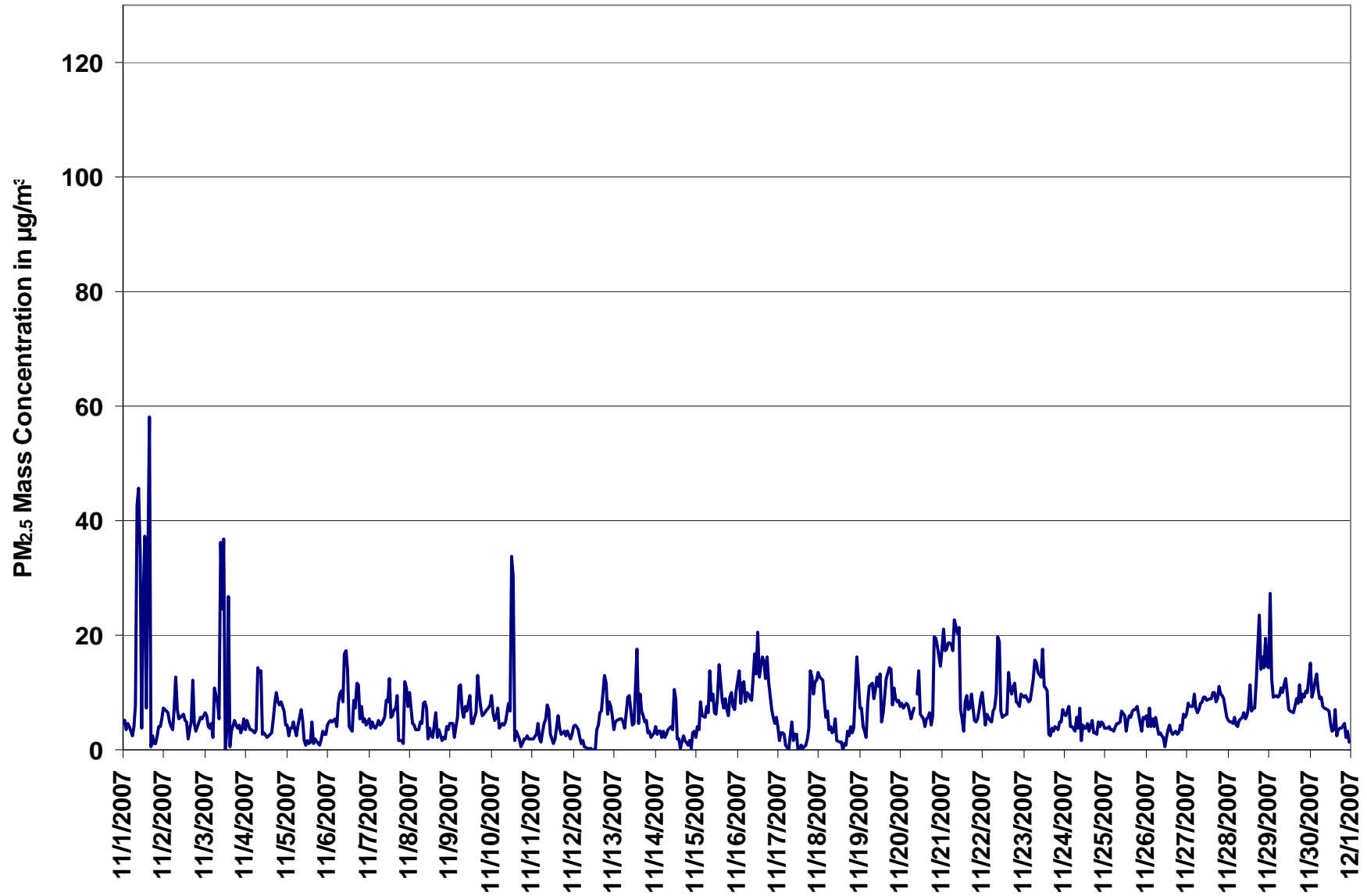
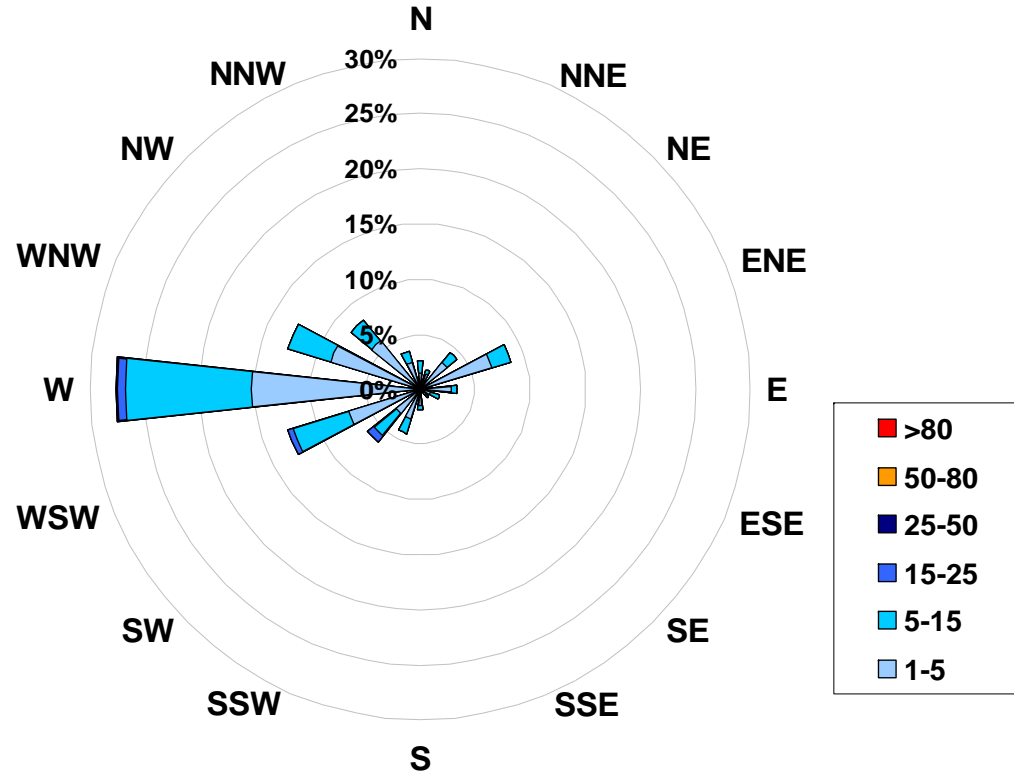


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 November 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	513
5	to	15	187
15	to	25	11
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			712

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

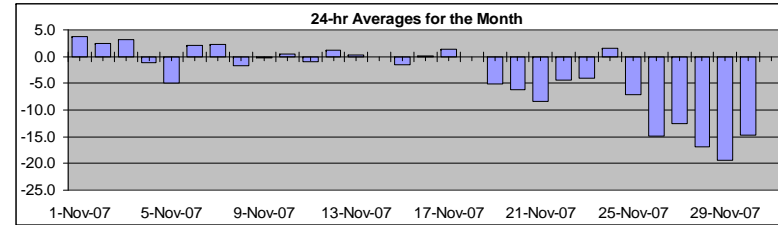
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	8.6	°C	6-Nov	13:00 14:00
Maximum 24-hr Value:	3.8	°C	1-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.9	4.5	1.3	-1.3	-7.7	-17.0	-23.9	-3.5 °C	-1.3 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	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-Nov-07	4	3	3	3	3	3	3	3	3	4	4	5	6	7	7	6	5	4	4	3	3	2	1	1	3.8	6.9
2-Nov-07	0	0	0	0	0	1	1	-1	-2	0	2	3	3	4	5	6	5	4	5	6	5	4	4	4	2.4	5.8
3-Nov-07	3	3	2	3	4	4	4	4	3	3	4	4	5	5	5	5	4	3	3	2	2	1	1	1	3.2	5.1
4-Nov-07	1	1	0	-1	-1	-2	-2	-3	-3	-1	1	2	2	2	3	3	2	0	-3	-4	-5	-6	-7	-8	-1.2	3.2
5-Nov-07	-8	-9	-9	-10	-10	-10	-10	-10	-9	-7	-4	-3	-2	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-5.0	-0.8
6-Nov-07	-2	-2	-2	-1	-1	-1	0	-1	-2	-1	5	7	8	9	8	7	6	3	2	1	2	2	2	1	2.1	8.6
7-Nov-07	0	0	0	-1	-1	-1	-1	-1	0	0	0	1	3	4	4	5	5	4	7	7	7	6	4	1	2.4	7.4
8-Nov-07	1	-1	-2	-3	-3	-3	-3	-3	-3	-3	-2	0	2	3	3	2	0	-2	-3	-4	-4	-4	-3	-1.6	2.8	
9-Nov-07	-3	-2	-1	0	0	-1	-1	-1	0	0	0	0	1	1	1	1	0	0	0	0	0	-1	-1	-1	-0.3	1.3
10-Nov-07	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-1	-1	0	3	3	3	3	3	3	3	3	2	2	0.4	3.4
11-Nov-07	1	-1	-3	-3	-4	-5	-6	-5	-5	-3	0	3	6	6	5	4	1	0	0	-1	-2	-3	-3	-3	-0.9	6.0
12-Nov-07	-3	-3	-2	-2	-1	0	1	2	1	1	1	2	3	3	4	4	4	5	3	3	3	2	1	0	1.2	4.6
13-Nov-07	0	-1	-1	-1	-2	-2	-2	-3	-3	-2	-1	1	3	4	4	4	3	2	2	1	1	1	1	1	0.4	4.0
14-Nov-07	1	1	-1	-1	0	0	0	-1	-1	0	1	2	3	3	3	2	0	-2	-2	-2	-2	-2	-2	-1	-0.1	3.3
15-Nov-07	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-2	-1	0	1	0	0	0	-1	-1	-1	-1	-1	-1	-2	-1.6	0.5
16-Nov-07	-3	-2	-2	-2	-2	-2	-2	-1	-1	-1	0	1	1	1	3	2	1	1	1	1	1	2	1	1	0.1	2.7
17-Nov-07	2	2	2	2	1	1	-1	-2	0	0	1	3	4	5	5	4	2	1	0	0	-1	-1	0	0	1.3	5.4
18-Nov-07	-1	-1	-1	0	1	1	0	0	0	-2	-1	1	2	3	3	3	1	-1	-1	-1	-2	-3	-3	-4	-0.1	3.4
19-Nov-07	-5	-6	-7	-8	-9	-10	-9	-9	-9	-8	-6	-3	0	1	1	1	-2	-4	-4	-5	-4	-5	-6	-7	-5.1	1.2
20-Nov-07	-7	-6	-5	-4	-4	-4	-5	-5	-5	-5	-4	-4	-3	-2	-2	-1	-3	-7	-9	-11	-12	-12	-13	-14	-6.1	-1.3
21-Nov-07	-15	-15	-15	-16	-16	-16	-17	-17	-17	-15	-10	-7	-4	-1	0	1	-2	-6	-3	-1	-2	-2	-3	-4	-8.4	1.3
22-Nov-07	-5	-5	-4	-2	-4	-5	-7	-8	-10	-8	-3	0	1	1	2	1	0	-2	-4	-6	-8	-9	-10	-11	-4.4	1.9
23-Nov-07	-11	-11	-11	-10	-11	-10	-11	-11	-11	-10	-7	-4	-1	2	5	5	4	3	1	1	2	1	0	-1	-4.0	4.7
24-Nov-07	-3	-3	-2	-2	-2	3	4	4	3	2	4	4	4	4	4	4	3	2	1	1	0	1	1	1	1.6	4.4
25-Nov-07	0	1	0	0	-1	-1	-2	-2	-2	-2	-5	-7	-7	-7	-9	-11	-12	-13	-14	-14	-15	-16	-16	-17	-7.1	0.5
26-Nov-07	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-16	-14	-13	-13	-12	-12	-12	-13	-13	-13	-13	-13	-13	-14.9	-12.4
27-Nov-07	-13	-13	-13	-13	-13	-13	-14	-15	-16	-14	-13	-12	-11	-10	-10	-11	-11	-12	-12	-12	-12	-12	-12	-13	-12.5	-10.1
28-Nov-07	-14	-15	-15	-15	-15	-16	-16	-16	-16	-15	-15	-14	-14	-14	-12	-12	-13	-16	-19	-21	-22	-23	-24	-25	-16.9	-12.0
29-Nov-07	-23	-24	-21	-20	-20	-20	-20	-20	-20	-20	-17	-16	-14	-12	-12	-12	-15	-19	-21	-22	-23	-24	-24	-24	-19.3	-11.5
30-Nov-07	-24	-18	-16	-16	-17	-16	-16	-16	-16	-16	-14	-13	-11	-11	-11	-11	-12	-12	-13	-13	-14	-14	-15	-15	-14.6	-10.5
Hourly Avg	-4.8	-4.9	-4.9	-4.8	-5.0	-4.9	-5.1	-5.3	-5.4	-4.8	-3.3	-1.9	-0.8	-0.1	0.3	0.0	-1.3	-2.6	-3.1	-3.5	-3.9	-4.3	-4.7	-5.1		
Hourly Max	3.7	3.2	3.1	3.2	3.7	3.6	3.8	3.9	3.2	3.5	5.1	7.3	8.4	8.6	7.8	7.4	5.6	4.5	6.8	7.4	6.9	6.3	4.3	3.6		

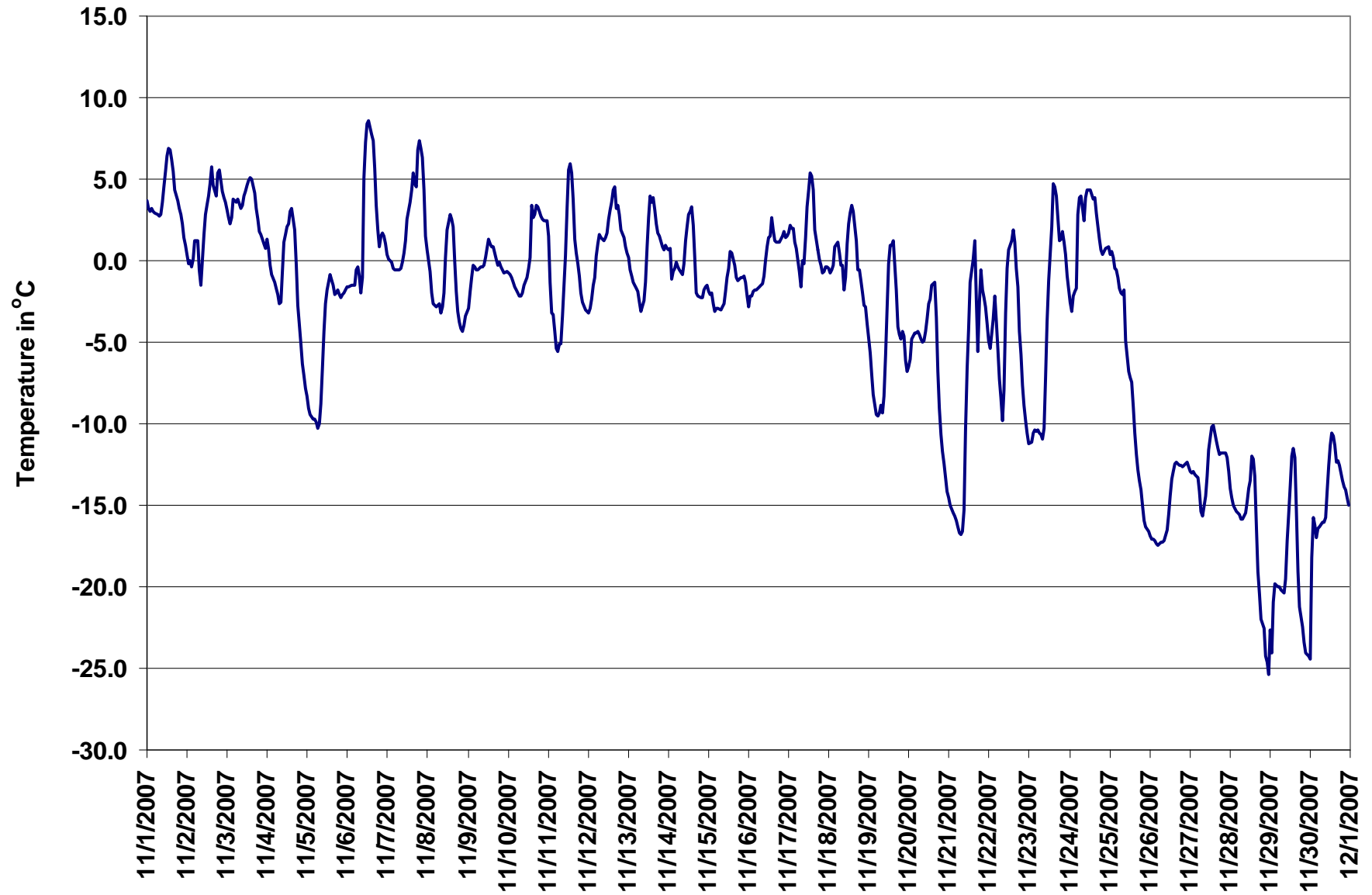


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Sclar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

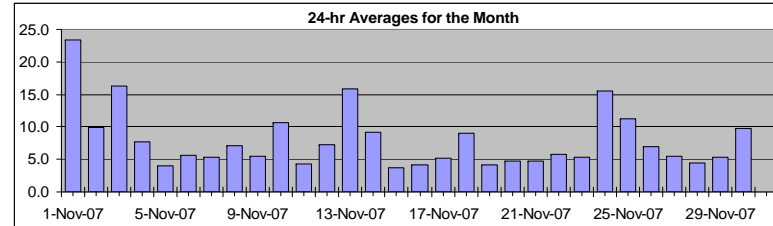
Wind Speed (WSs)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	30.2	km/hr	1-Nov	14:00 15:00
Maximum 24-hr Value:	23.4	km/hr	1-Nov	

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	27.6	21.0	10.3	5.8	3.7	2.4	1.9	7.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start 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-Nov-07	22	23	21	21	21	22	27	26	28	29	30	28	27	27	30	30	24	23	21	19	18	15	14	15	23.4	30.2
2-Nov-07	12	11	12	13	13	12	8	4	3	3	6	6	5	6	8	9	5	6	15	23	21	14	11	13	9.9	23.3
3-Nov-07	15	12	11	16	23	19	27	29	26	26	25	19	21	18	18	16	15	12	8	7	7	8	7	16.3	29.0	
4-Nov-07	12	11	11	10	7	6	6	8	8	8	13	12	13	11	11	10	7	3	3	3	3	4	2	7.7	13.1	
5-Nov-07	2	2	2	2	2	3	4	4	3	4	6	6	6	5	4	6	6	5	5	3	3	3	4	4	4.0	6.3
6-Nov-07	3	4	4	3	6	13	7	5	4	4	6	9	10	9	7	5	3	3	3	4	5	5	7	6	5.6	12.6
7-Nov-07	6	4	5	4	4	4	2	3	3	3	3	5	4	5	4	3	3	6	11	16	13	8	6	5	5.4	15.8
8-Nov-07	13	17	18	12	11	9	7	6	6	6	6	5	4	4	5	5	5	4	4	3	3	5	6	7	7.1	17.8
9-Nov-07	7	8	9	9	7	8	9	8	7	6	6	6	4	3	3	5	3	3	5	4	4	3	2	5.5	9.5	
10-Nov-07	3	4	3	4	4	4	4	3	3	3	4	4	10	16	16	15	15	20	25	25	24	16	14	16	10.6	25.1
11-Nov-07	9	5	4	6	3	3	3	3	2	2	3	6	8	6	5	4	3	4	5	5	4	3	3	3	4.3	9.0
12-Nov-07	3	2	2	4	5	5	7	8	7	5	4	5	7	6	8	11	6	4	5	11	13	15	17	16	7.3	16.9
13-Nov-07	18	17	16	16	15	13	9	6	N	N	N	8	12	20	20	21	20	19	17	20	17	16	15	15.8	20.5	
14-Nov-07	17	12	4	9	13	13	14	14	13	13	15	11	8	9	6	4	4	5	6	5	7	8	7	6	9.2	16.8
15-Nov-07	3	3	3	3	3	2	4	4	4	4	4	3	3	4	4	4	4	5	3	4	6	5	3	3	3.7	6.2
16-Nov-07	3	4	4	3	4	3	2	3	3	2	3	4	5	4	4	5	4	5	6	5	5	7	6	7	4.2	7.1
17-Nov-07	7	10	9	7	4	4	4	5	4	3	5	7	8	8	7	6	3	4	4	3	3	3	4	4	5.2	9.7
18-Nov-07	4	3	5	10	14	14	15	N	N	N	N	11	12	9	10	11	11	8	10	9	8	6	4	4	9.0	14.8
19-Nov-07	4	4	4	3	3	4	5	5	4	5	5	3	3	5	6	4	4	3	3	4	5	5	4	4	4.1	6.0
20-Nov-07	4	4	5	7	6	6	5	6	7	5	7	6	8	7	5	3	4	3	3	3	2	3	2	2	4.7	8.0
21-Nov-07	2	2	2	2	2	2	3	2	3	3	3	4	6	8	4	2	2	3	10	15	12	10	6	6	4.7	14.6
22-Nov-07	4	6	9	12	5	4	3	4	4	5	7	8	13	11	9	9	6	5	3	3	2	2	2	2	5.8	13.0
23-Nov-07	3	3	3	2	3	2	3	3	2	2	2	3	5	4	12	13	14	7	8	10	8	7	5	3	5.3	13.9
24-Nov-07	3	3	5	5	4	9	15	21	18	16	19	28	27	24	18	14	11	14	17	18	21	22	21	23	15.6	27.8
25-Nov-07	20	21	20	16	14	8	6	7	8	9	10	13	13	12	12	10	10	7	7	8	11	11	9	7	11.2	21.1
26-Nov-07	8	7	7	7	7	8	7	8	8	10	10	10	10	9	8	7	6	6	4	3	2	4	3	5	6.9	10.4
27-Nov-07	5	5	3	7	7	7	7	5	5	5	2	2	3	4	5	5	5	4	3	3	10	11	12	5.5	12.3	
28-Nov-07	10	9	8	6	6	6	4	4	4	5	5	4	2	2	3	4	3	3	3	3	4	2	4	3	4.4	10.3
29-Nov-07	4	3	4	8	6	5	4	5	6	7	9	10	11	9	9	6	3	3	3	2	3	3	2	3	5.4	11.2
30-Nov-07	4	8	10	10	9	10	10	9	9	10	11	11	10	11	14	11	6	7	9	12	11	12	9	10	9.7	14.2
1-hr Average	7.7	7.5	7.5	7.9	7.7	7.6	7.6	7.4	7.3	7.3	8.2	8.6	9.3	9.2	9.1	8.6	7.2	6.8	7.5	8.4	8.3	7.8	7.2	7.2		
Hourly Max	21.8	22.6	20.9	21.3	23.1	22.2	27.0	29.0	27.6	29.4	30.1	28.0	27.4	27.2	30.2	29.8	24.3	22.9	25.1	24.6	23.7	21.5	20.8	22.6		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

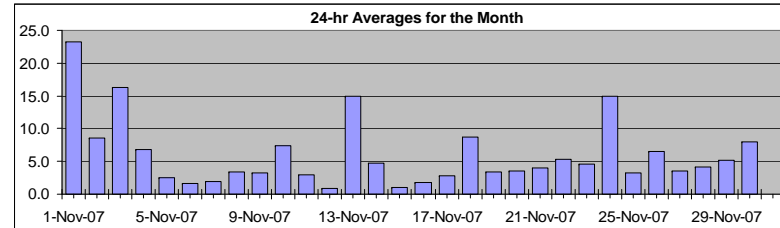
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	29.9	km/hr	1-Nov	14:00 15:00
Maximum 24-hr Value:	23.2	km/hr	1-Nov	



Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.4	20.8	10.0	5.5	3.0	1.2	0.7	19.2 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-Nov-07	22	22	21	21	21	22	27	26	27	29	30	28	26	27	30	30	24	23	20	19	18	15	14	15	23.2	29.9		
2-Nov-07	12	11	12	13	13	12	7	3	2	1	6	6	5	6	7	9	4	6	15	23	21	13	11	13	8.6	23.2		
3-Nov-07	15	12	11	16	23	19	26	29	26	26	24	19	21	18	17	16	15	11	7	7	7	7	8	7	16.2	28.8		
4-Nov-07	11	10	11	10	7	6	6	7	8	7	13	12	12	10	10	10	6	2	2	3	1	1	3	1	6.9	12.7		
5-Nov-07	1	1	2	0	1	1	4	4	3	4	6	6	6	5	4	5	6	5	4	2	2	1	2	2	2.6	6.0		
6-Nov-07	2	3	1	3	6	13	4	4	4	2	5	8	9	8	7	4	2	1	3	3	5	5	6	5	1.6	12.6		
7-Nov-07	5	4	5	3	4	3	1	1	2	1	2	5	3	5	4	2	1	4	11	16	13	8	5	4	1.9	15.7		
8-Nov-07	13	17	17	12	10	9	5	6	6	5	6	4	3	2	4	4	5	4	3	3	3	4	6	7	3.4	17.5		
9-Nov-07	6	7	9	9	7	7	8	8	7	6	6	6	4	2	2	0	5	3	2	4	3	4	2	1	3.3	9.2		
10-Nov-07	2	3	3	3	3	3	3	2	2	3	3	3	10	16	15	15	15	20	25	24	24	16	14	16	7.4	25.0		
11-Nov-07	9	2	1	2	1	2	1	2	1	2	2	6	8	6	5	3	3	4	5	4	4	4	2	2	2	2.9	8.9	
12-Nov-07	0	0	2	1	4	5	7	8	7	5	4	4	6	5	8	11	3	4	3	10	13	14	17	16	0.9	16.7		
13-Nov-07	18	17	16	16	14	12	9	5	N	N	N	8	11	19	20	20	20	19	17	20	17	16	16	15	15.0	20.4		
14-Nov-07	17	11	3	9	13	12	14	14	12	13	15	10	7	9	5	3	4	5	6	5	7	8	7	6	4.7	16.8		
15-Nov-07	3	3	3	3	2	1	3	3	4	3	3	2	2	3	4	3	5	3	3	3	6	4	3	3	1.1	6.0		
16-Nov-07	3	2	4	1	1	2	1	1	1	1	3	3	5	1	2	4	3	4	4	4	4	7	6	7	1.8	6.9		
17-Nov-07	6	9	9	6	2	2	2	4	4	3	5	6	7	7	6	5	3	4	3	3	2	2	3	3	2.8	9.1		
18-Nov-07	4	3	5	10	14	14	15	N	N	N	N	10	12	9	10	11	11	8	10	9	8	6	4	3	8.7	14.7		
19-Nov-07	3	3	3	2	2	4	5	5	4	5	5	3	2	5	6	4	4	1	2	4	4	5	4	4	3.4	5.8		
20-Nov-07	4	2	5	6	6	6	5	5	6	5	7	6	8	6	4	3	4	2	2	2	2	2	2	1	3.5	7.5		
21-Nov-07	1	1	2	2	2	2	2	1	3	2	2	4	6	8	4	2	1	1	10	15	12	9	6	6	3.9	14.6		
22-Nov-07	4	6	9	11	5	4	2	3	4	5	6	8	13	11	9	9	6	5	1	3	1	1	1	2	5.3	12.8		
23-Nov-07	2	3	3	2	2	1	2	3	2	1	1	2	4	4	12	13	14	7	8	10	8	7	5	3	4.6	13.8		
24-Nov-07	3	1	4	2	3	9	15	21	17	15	19	28	27	24	18	14	11	14	17	18	21	21	23	15.0	27.7			
25-Nov-07	20	21	20	16	14	6	6	7	8	8	10	13	13	11	12	10	9	7	7	8	11	10	9	7	3.3	21.0		
26-Nov-07	8	6	7	6	7	8	7	8	8	10	10	10	10	9	8	7	6	5	4	3	2	4	3	4	6.5	10.2		
27-Nov-07	4	5	2	6	7	6	7	5	5	4	2	2	2	3	5	5	5	5	3	3	3	10	11	12	3.5	12.1		
28-Nov-07	10	8	8	6	6	5	3	4	4	5	4	3	2	1	3	4	2	2	2	2	3	1	3	3	4.1	10.1		
29-Nov-07	4	3	4	7	6	5	4	5	6	7	9	10	11	9	9	6	2	2	2	0	2	2	2	3	5.2	11.2		
30-Nov-07	4	8	10	10	9	10	10	9	9	10	11	11	10	10	14	11	6	7	9	11	11	9	10		8.0	14.0		
1-hr Vector	4.5	4.1	4.1	5.0	5.0	4.3	4.6	4.7	4.5	4.3	4.4	5.0	5.4	5.3	4.8	3.8	2.8	3.1	4.3	5.4	4.9	4.4	3.6	3.4				
Hourly Max	21.6	22.4	20.8	21.0	22.9	22.0	26.8	28.8	27.4	29.2	29.9	27.7	27.3	26.9	29.9	29.6	24.2	22.7	25.0	24.5	23.6	21.4	20.7	22.5				

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 713 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 99.0%
Percentile	99 95 75 50 25 5 1	Average
	349.2 322.4 276.9 256.1 128.4 51.9 10.9	271 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Nov-07	253	251	257	262	265	265	261	263	262	263	266	275	278	272	270	266	268	263	266	259	256	246	244	246	263	W
2-Nov-07	239	235	244	225	229	240	253	257	130	146	199	198	180	178	190	209	233	273	258	255	259	273	282	267	241	WSW
3-Nov-07	263	268	266	257	265	262	257	257	250	258	256	262	260	258	256	248	247	250	254	254	272	273	262	256	258	WSW
4-Nov-07	265	273	275	278	301	303	295	277	271	301	320	317	306	297	317	298	312	299	266	255	193	205	202	243	290	WNW
5-Nov-07	350	165	207	220	218	29	63	66	54	89	109	133	148	184	159	141	116	112	117	68	96	260	79	96	117	ESE
6-Nov-07	236	265	189	198	226	216	330	319	207	171	260	281	302	332	332	264	215	146	47	70	82	71	72	69	276	W
7-Nov-07	69	73	70	65	73	57	57	239	322	359	208	211	240	214	221	215	292	279	261	264	263	268	354	48	272	W
8-Nov-07	333	331	327	310	302	301	298	265	272	297	307	261	351	237	153	123	101	102	81	62	68	65	77	83	327	NNW
9-Nov-07	77	91	92	94	79	83	95	91	90	72	67	60	63	0	14	74	269	216	257	243	226	204	172	109	89	E
10-Nov-07	145	113	118	101	113	71	73	67	11	333	49	338	256	276	282	230	233	244	244	244	245	253	256	251	249	WSW
11-Nov-07	261	252	274	304	180	192	152	246	211	257	220	206	216	200	197	195	154	167	170	178	173	52	17	188	210	SSW
12-Nov-07	14	350	198	29	76	99	101	107	120	114	102	101	104	85	68	62	71	23	337	265	268	267	280	290	30	NNE
13-Nov-07	287	292	296	299	304	318	315	269	N	N	N	286	289	276	272	273	272	267	258	261	257	255	258	254	277	W
14-Nov-07	261	264	355	253	250	249	243	249	242	243	248	254	278	260	217	145	103	77	79	80	71	70	73	78	249	WSW
15-Nov-07	59	56	55	225	292	59	249	280	270	326	243	257	288	99	105	112	66	64	85	51	73	107	62	52	61	ENE
16-Nov-07	53	68	47	209	309	2	1	171	278	303	277	275	281	337	248	266	297	263	228	176	183	186	194	196	245	WSW
17-Nov-07	208	191	199	196	251	161	183	186	184	155	125	128	130	124	130	115	85	72	36	29	23	312	289	238	160	SSE
18-Nov-07	262	262	294	275	276	267	262	N	N	N	N	266	277	299	291	287	282	270	261	267	265	272	297	308	276	W
19-Nov-07	299	332	358	274	208	247	265	258	264	249	253	253	331	319	270	258	2	265	291	269	259	263	286	301	278	W
20-Nov-07	269	287	287	303	286	299	301	311	286	280	279	306	279	297	320	49	84	78	85	34	349	312	276	288	301	WNW
21-Nov-07	301	281	304	311	245	234	234	307	235	235	303	271	257	258	265	8	60	79	274	274	259	266	308	305	274	W
22-Nov-07	286	316	277	285	301	321	272	314	205	248	253	271	284	281	285	272	278	268	305	254	220	288	247	220	277	W
23-Nov-07	56	228	221	244	36	282	247	231	235	1	229	245	259	286	282	279	273	297	281	278	277	258	285	269	273	W
24-Nov-07	222	184	194	156	230	273	261	270	272	268	268	266	266	269	271	277	275	270	268	265	263	265	265	264	265	W
25-Nov-07	264	266	268	264	264	303	310	282	271	273	54	59	57	55	58	62	58	54	71	48	46	63	63	61	353	N
26-Nov-07	65	86	85	84	93	98	95	95	92	94	99	101	102	99	90	80	70	75	72	68	6	35	42	32	85	E
27-Nov-07	21	33	13	316	316	318	322	320	327	333	290	222	107	83	59	48	54	52	64	61	227	313	322	332	347	NNW
28-Nov-07	330	323	323	316	317	327	311	304	326	291	319	291	260	282	255	283	258	291	310	269	274	275	288	265	304	NW
29-Nov-07	292	269	281	261	262	272	272	243	254	270	266	269	274	276	272	269	282	225	247	247	243	280	237	223	265	W
30-Nov-07	219	257	272	271	264	272	271	267	265	280	284	283	291	308	334	342	17	317	308	325	338	348	349	348	302	WNW
Hourly Avg	276	275	279	270	272	275	272	265	259	268	267	268	274	276	277	268	276	269	266	266	263	272	285	277		

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.0%			
Percentile	99	95	75	50	25	5	1
	84.7	73.8	39.3	18.4	10.1	5.7	4.3

Status Flag Characters

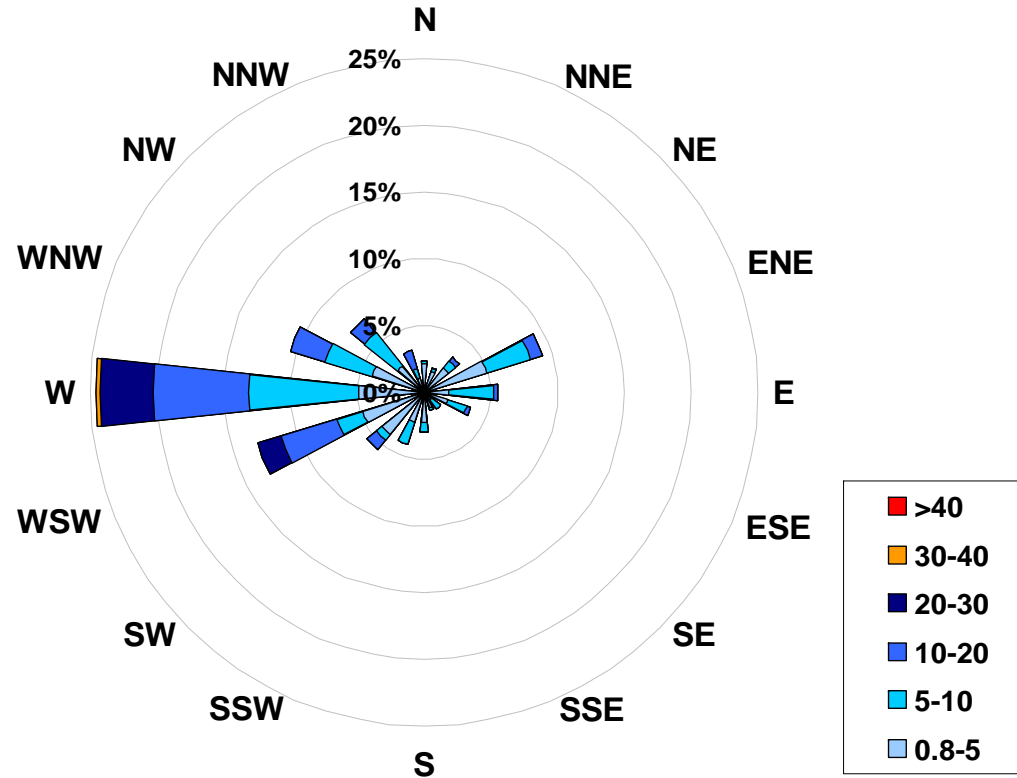
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Nov-07	7	6	7	10	6	6	6	6	5	6	6	10	9	9	8	6	6	6	6	6	5	7	7	5		10.2	
2-Nov-07	7	7	6	4	9	12	43	44	65	69	18	14	25	19	14	9	57	21	10	5	6	11	13	7		69.4	
3-Nov-07	5	6	7	4	6	7	10	6	6	6	7	7	7	8	9	9	8	5	6	6	8	7	8	11		11.1	
4-Nov-07	6	9	6	8	16	13	19	18	15	19	14	19	18	18	20	19	19	52	57	30	83	80	30	70		83.0	
5-Nov-07	58	66	55	96	84	76	10	6	24	27	19	21	26	19	41	28	25	38	30	57	50	71	69	69		96.1	
6-Nov-07	51	45	81	37	17	5	65	47	23	72	31	31	26	33	22	44	84	88	38	52	18	14	11	16		87.7	
7-Nov-07	18	21	20	33	23	33	74	90	42	58	57	23	39	13	13	84	81	60	5	6	5	15	48	36		89.5	
8-Nov-07	10	10	11	16	17	21	35	13	19	21	18	42	46	70	33	22	8	14	33	23	43	10	9	8		69.8	
9-Nov-07	12	11	12	13	12	17	14	14	15	26	14	15	31	40	41	84	26	45	50	50	54	48	50	85		85.4	
10-Nov-07	76	48	46	44	50	68	51	62	54	34	66	48	21	8	20	5	6	6	5	6	6	7	9	7		75.6	
11-Nov-07	8	75	77	74	82	74	65	55	75	41	48	12	16	16	24	29	27	15	11	27	16	38	30	65		81.6	
12-Nov-07	88	90	52	76	48	13	14	13	12	30	19	28	39	21	10	10	71	24	66	18	9	13	9	11		90.4	
13-Nov-07	8	10	11	11	12	11	17	20	N	N	N	23	28	7	6	7	6	4	6	4	4	5	4	4		27.6	
14-Nov-07	5	24	53	8	4	5	6	6	12	7	7	13	20	9	21	37	14	12	8	13	8	8	11	12		53.0	
15-Nov-07	23	24	29	38	48	85	43	33	17	30	46	66	48	70	47	32	24	16	44	29	14	33	36	16		84.6	
16-Nov-07	43	81	32	81	83	38	70	84	84	66	39	47	20	78	55	54	57	55	60	50	22	9	16	17		83.9	
17-Nov-07	39	21	11	25	58	80	57	19	29	33	17	20	20	26	25	34	41	17	23	24	49	38	47	21		79.5	
18-Nov-07	25	33	18	10	8	5	5	N	N	N	N	12	9	19	18	12	8	9	10	6	8	10	20	30		33.1	
19-Nov-07	36	29	39	45	56	19	13	9	14	11	19	22	54	20	14	27	22	60	44	16	10	8	20	26		60.5	
20-Nov-07	35	56	21	19	13	15	20	18	17	27	18	26	21	31	34	26	15	43	61	34	55	67	24	31		66.8	
21-Nov-07	39	55	27	16	29	36	56	42	40	67	39	24	16	7	18	37	70	85	13	6	6	9	14	12		84.7	
22-Nov-07	34	23	15	14	14	20	62	50	28	26	19	13	9	9	12	7	16	17	62	28	69	53	63	50		68.6	
23-Nov-07	62	13	18	34	43	46	40	12	45	71	76	52	43	26	12	9	7	14	13	9	8	14	21	25		76.3	
24-Nov-07	39	84	28	63	62	13	6	8	7	10	6	5	6	6	6	14	11	8	4	6	5	6	6	5		83.9	
25-Nov-07	5	6	6	6	6	38	16	9	13	27	15	9	12	16	12	12	12	20	15	13	11	12	14	15		37.9	
26-Nov-07	17	24	15	17	18	15	15	14	15	12	16	14	14	17	18	22	18	20	32	30	46	19	22	20		45.8	
27-Nov-07	20	13	55	16	14	16	12	18	15	19	45	58	76	47	24	14	17	19	59	33	42	17	13	10		75.9	
28-Nov-07	11	16	16	16	16	17	18	22	14	15	24	41	49	59	16	31	74	61	41	42	33	65	37	13		73.7	
29-Nov-07	29	23	15	6	7	9	14	10	11	10	8	10	7	9	7	12	73	65	55	90	61	47	41	48		90.5	
30-Nov-07	11	10	8	8	8	5	7	10	8	9	9	9	11	23	9	18	28	19	13	16	10	12	12	13		28.4	

Hourly Max 88 90 81 96 84 85 74 90 84 72 76 66 76 78 55 84 84 88 66 90 83 80 69 85

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	305
5	to	10	224
10	to	20	141
20	to	30	41
30	to	40	2
	>	40	0
Total Non-Zero Values			713

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

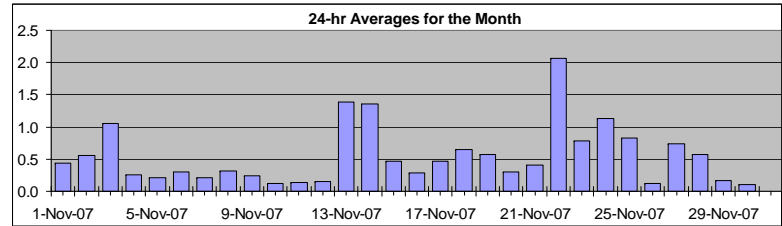
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.1	ppb	13-Nov	23:00 0:00
Maximum 24-hr Average:	2.1	ppb	22-Nov	



AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	2.2	0.6	0.3	0.1	0.0	0.0	0.5 ppb	0.3 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Nov-07	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	1	2	2	1	0.4	2.2	
2-Nov-07	2	3	A	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0.6	2.5	
3-Nov-07	1	A	2	2	3	0	0	2	3	1	2	4	1	1	1	0	1	1	1	0	0	0	0	0	1.1	3.5	
4-Nov-07	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
5-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4	
6-Nov-07	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6	
7-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
8-Nov-07	1	0	0	0	A	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
9-Nov-07	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
10-Nov-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
11-Nov-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
12-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4	
13-Nov-07	0	0	0	0	1	0	0	0	0	0	1	2	1	1	1	1	1	3	4	1	3	4	A	7	1.4	7.1	
14-Nov-07	5	2	5	1	1	3	0	1	1	2	4	1	1	0	0	0	0	0	0	0	0	0	A	0	0	1.4	5.1
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	0	0	0	0.5	1.0	
16-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0.3	0.6	
17-Nov-07	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	0	0	0	0.5	0.9	
18-Nov-07	0	0	0	0	1	1	1	1	1	2	1	0	1	0	1	0	A	0	1	0	1	0	0	0	0.6	1.6	
19-Nov-07	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	A	1	0	0	1	1	0	0	0.6	1.8	
20-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	1	1	0.3	1.4	
21-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	1	0.4	0.8	
22-Nov-07	3	5	4	4	2	3	4	2	1	0	1	2	2	A	2	2	2	1	1	1	1	3	1	1	2.1	4.9	
23-Nov-07	1	1	1	1	1	0	0	0	0	1	1	1	A	1	1	2	2	1	1	1	1	1	1	1	0.8	2.5	
24-Nov-07	1	1	1	0	0	0	1	1	1	1	1	A	1	2	2	0	1	1	0	0	0	3	3	3	1.1	3.3	
25-Nov-07	3	3	2	2	3	2	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	3.3	
26-Nov-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
27-Nov-07	0	0	1	1	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5	
28-Nov-07	0	0	0	0	0	0	0	0	A	0	0	C	C	C	C	1	1	1	2	1	1	1	0	0	0.6	2.0	
29-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
30-Nov-07	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	
Hourly Avg	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.7	0.5	0.7			
Hourly Max	5.1	4.9	4.8	3.5	2.8	3.1	4.2	1.6	2.5	2.3	4.3	3.5	2.1	1.8	2.5	2.5	1.9	2.9	3.7	1.4	2.7	3.6	3.2	7.1			

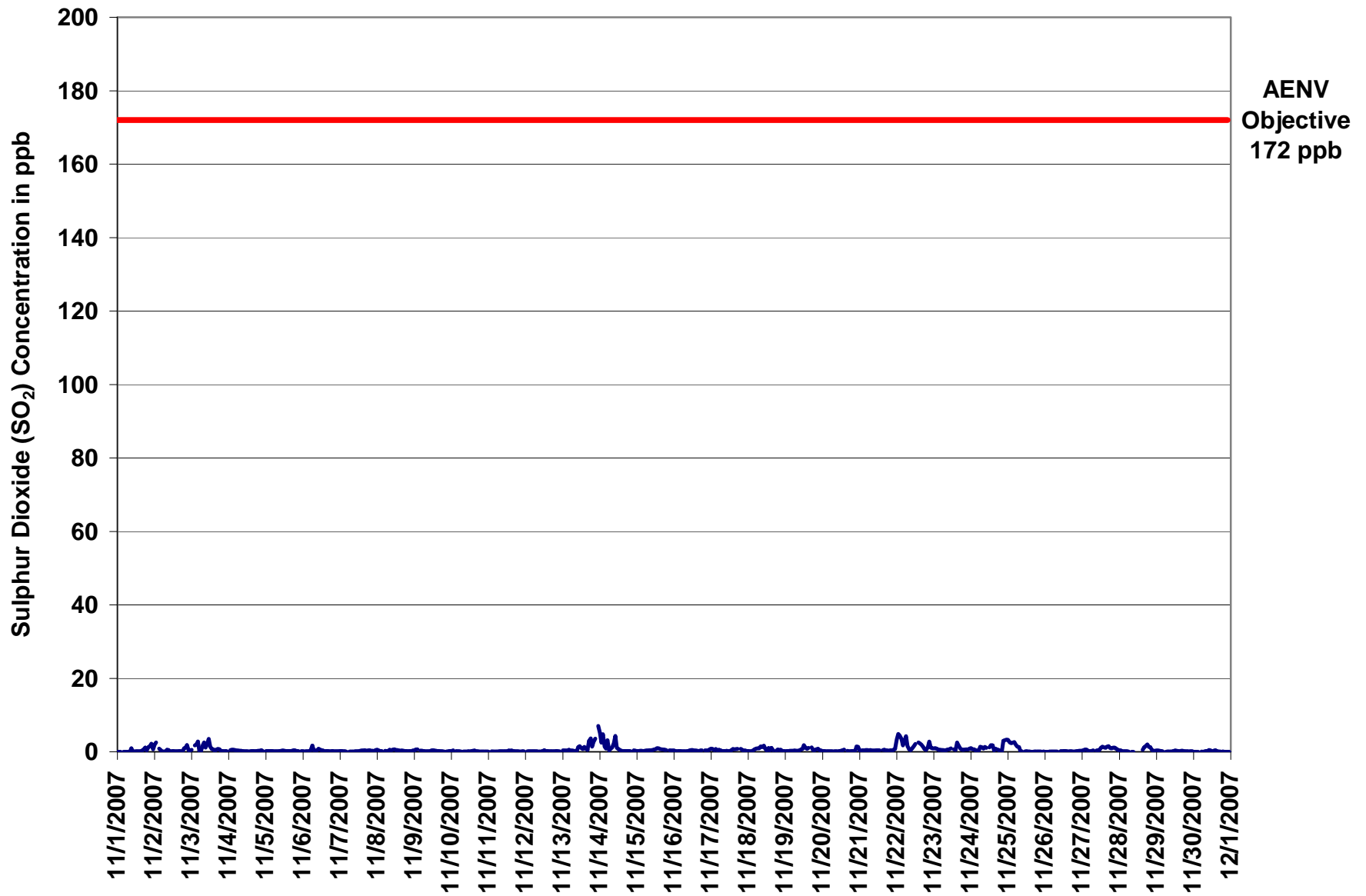


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

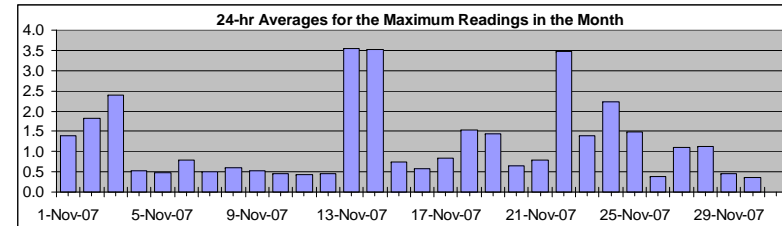
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	13.2	ppb	13-Nov	20:00 21:00
Maximum 24-hr Value:	3.6	ppb	13-Nov	



AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.4	4.4	1.0	0.6	0.4	0.3	0.2	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-Nov-07	0	0	0	A	0	0	0	0	0	2	1	0	0	0	0	1	1	3	3	3	2	3	7	1	1.4	6.6
2-Nov-07	8	5	A	3	3	0	0	0	3	3	0	1	0	0	0	0	0	0	0	3	3	4	1	1	1.8	8.3
3-Nov-07	1	A	4	4	9	1	0	3	7	4	4	5	3	1	2	0	2	2	1	0	0	0	0	0	2.4	8.6
4-Nov-07	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	1	1	0	A	0.5	0.9
5-Nov-07	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	A	1	0.5	0.7
6-Nov-07	0	0	0	0	0	2	4	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0.8	4.0
7-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.9
8-Nov-07	1	1	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.6	1.0
9-Nov-07	1	1	1	A	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.0
10-Nov-07	0	1	A	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0.5	1.7
11-Nov-07	0	A	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0.4	0.8
12-Nov-07	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	0	A	0.4	0.7
13-Nov-07	1	1	1	1	8	1	1	1	1	1	5	4	3	1	2	1	2	8	6	4	13	8	A	10	3.6	13.2
14-Nov-07	6	7	13	12	2	12	1	3	3	6	7	4	1	1	1	1	0	0	1	1	0	A	1	1	3.5	12.9
15-Nov-07	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.4
16-Nov-07	1	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	0.6	1.0
17-Nov-07	1	1	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	0	0.8	1.7
18-Nov-07	0	0	0	1	2	2	2	2	3	3	4	2	1	4	1	4	1	A	1	1	1	1	0	0	1.5	4.0
19-Nov-07	0	0	1	0	0	1	1	1	1	1	1	5	7	2	1	2	A	3	1	1	1	1	1	1	1.4	7.0
20-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	1	0	0	0	1	0	2	2	0.6	2.5
21-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	0.8	2.0
22-Nov-07	6	10	7	6	3	4	6	4	1	1	2	2	4	A	4	4	3	2	1	1	2	4	2	1	3.5	9.7
23-Nov-07	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	6	5	2	1	1	1	1	1	2	1.4	5.8
24-Nov-07	2	1	1	1	1	1	3	3	2	2	2	A	3	3	4	1	2	1	2	1	0	4	7	6	2.2	6.6
25-Nov-07	4	4	5	6	3	3	2	2	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	6.2
26-Nov-07	0	0	0	0	0	0	0	0	0	A	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0.4	0.6
27-Nov-07	1	1	1	1	1	0	1	1	A	1	1	1	2	2	2	1	2	2	1	1	1	1	1	1	1.1	1.9
28-Nov-07	1	1	0	0	0	0	0	A	0	0	C	C	C	C	C	2	2	3	3	2	2	1	1	1	1.1	3.5
29-Nov-07	1	1	1	0	0	A	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0.5	0.7
30-Nov-07	0	0	0	0	A	0	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0.4	0.8
Hourly Avg	1.5	1.4	1.5	1.5	1.5	1.2	0.9	0.9	1.0	1.1	1.3	1.3	1.2	1.0	1.0	1.2	1.0	1.3	1.0	1.0	1.3	1.3	1.1	1.3		
Hourly Max	8.3	9.7	12.9	11.6	8.6	11.5	6.2	4.4	7.4	5.8	6.8	5.1	7.0	4.0	3.7	5.8	4.7	8.1	6.0	4.3	13.2	8.2	6.6	10.0		

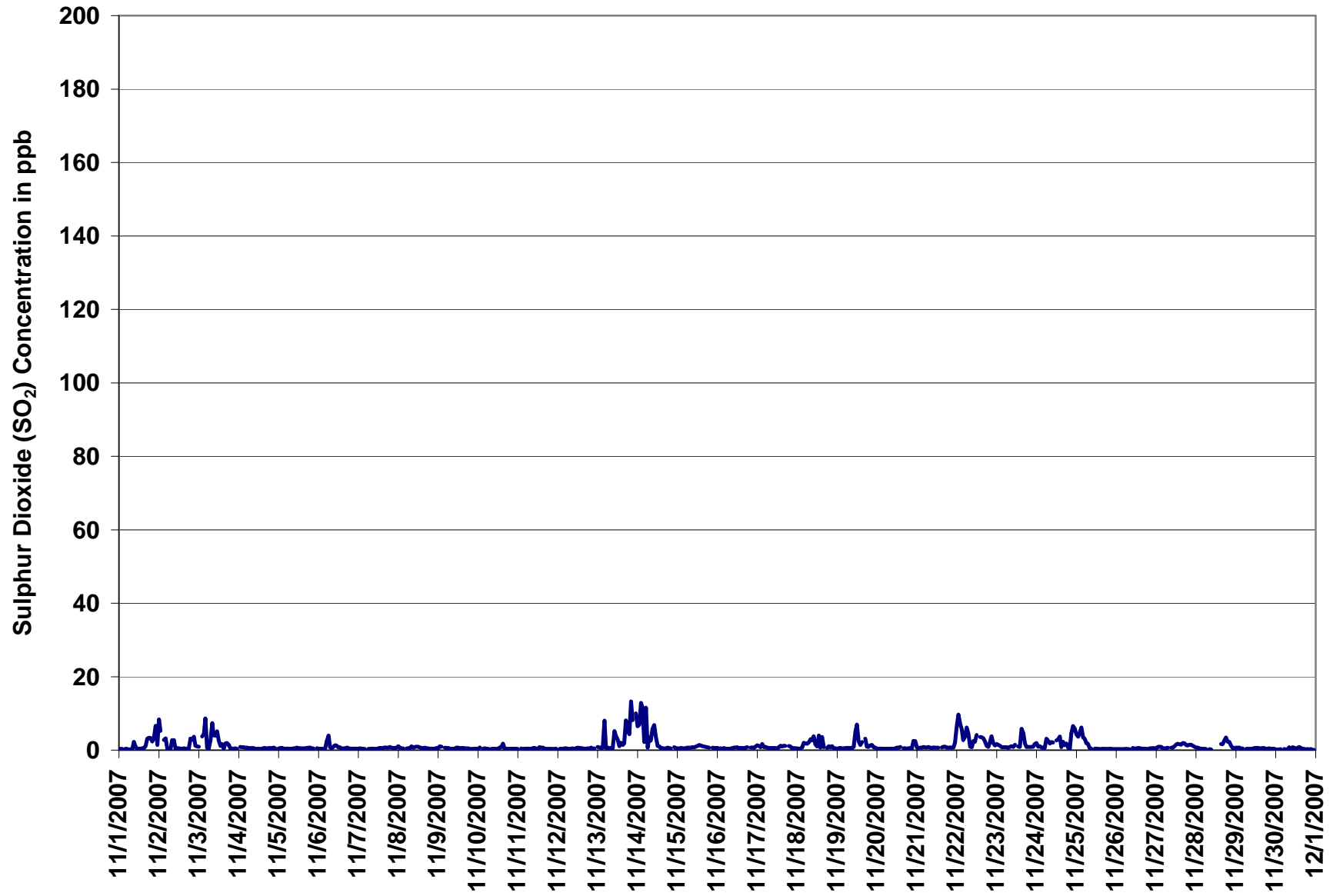
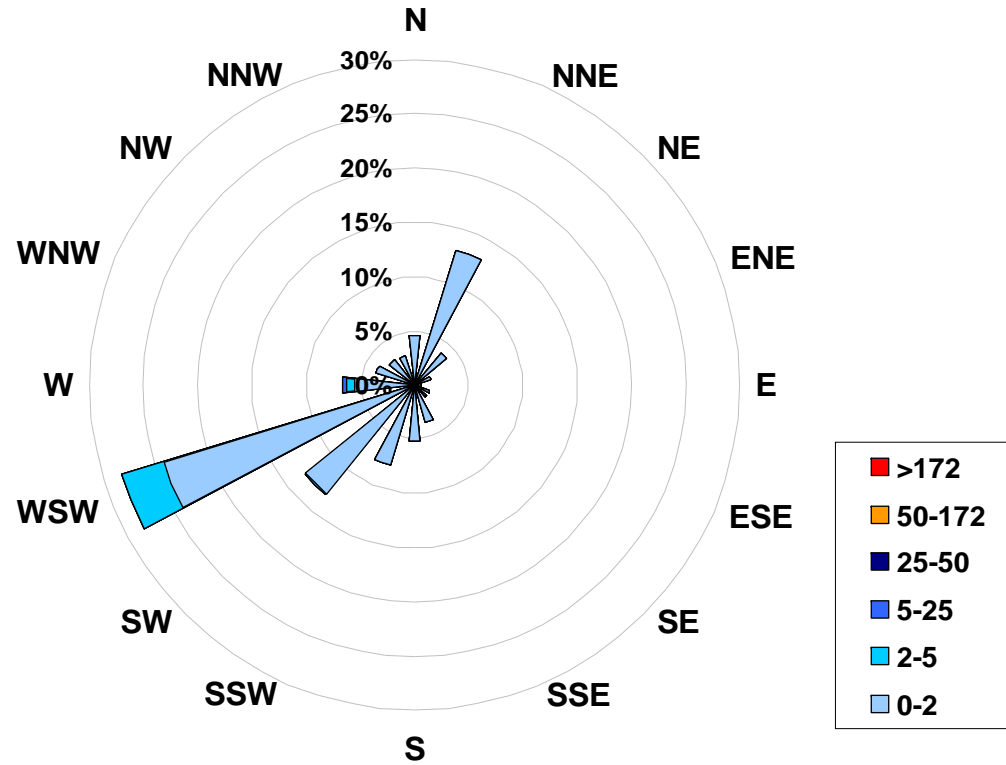


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	648	
2	to 5	34	
5	to 25	2	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			684

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

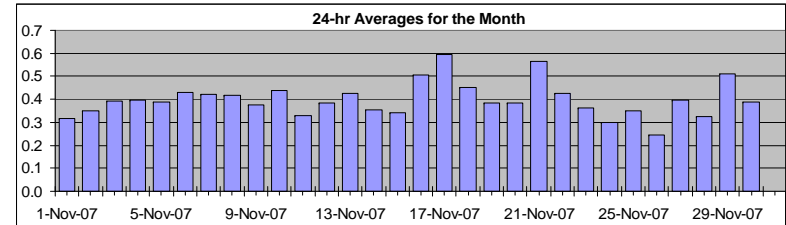
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	1.1	ppb	9-Nov	20:00 21:00
Maximum 24-hr Value:	0.6	ppb	17-Nov	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.4 ppb	0.4 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
2-Nov-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
3-Nov-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.5	
4-Nov-07	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5	
5-Nov-07	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.6	
6-Nov-07	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0.4	0.6	
7-Nov-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0.4	0.7	
8-Nov-07	0	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.6	
9-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.4	1.1	
10-Nov-07	0	1	A	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
11-Nov-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
12-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	A	0.4	0.7	
13-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0.4	0.7
14-Nov-07	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	0.4	0.5
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5
16-Nov-07	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	A	1	1	1	1	1	0.5	0.7
17-Nov-07	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	1	A	1	1	1	1	1	1	0.6	1.0
18-Nov-07	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.7
19-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0.4	0.6
20-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	1	1	0	0	0	0	0.4	0.6
21-Nov-07	1	1	1	1	1	1	0	1	0	0	0	1	1	1	A	0	0	0	0	1	1	1	1	1	1	0.6	0.9
22-Nov-07	1	1	1	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0.4	0.6
23-Nov-07	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
24-Nov-07	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	0.3	0.4
25-Nov-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
26-Nov-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
27-Nov-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0.4	0.6
28-Nov-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0.3	0.4
29-Nov-07	0	0	1	0	0	A	1	1	1	0	0	0	1	1	1	1	0	0	1	0	1	1	1	1	1	0.5	0.6
30-Nov-07	0	1	1	1	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4			
Hourly Max	0.9	0.8	0.6	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	1.1	0.9	1.0	0.7			

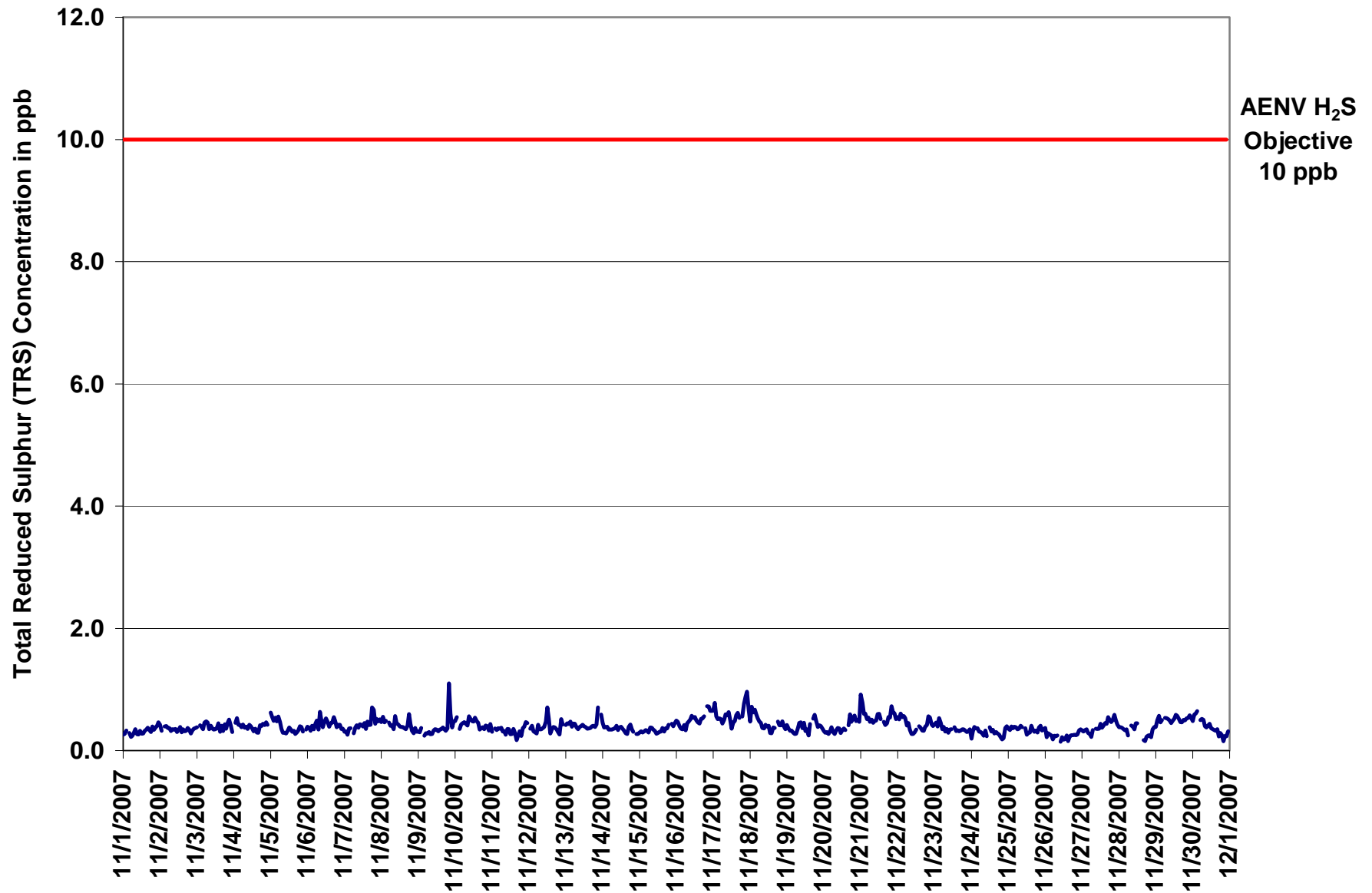


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

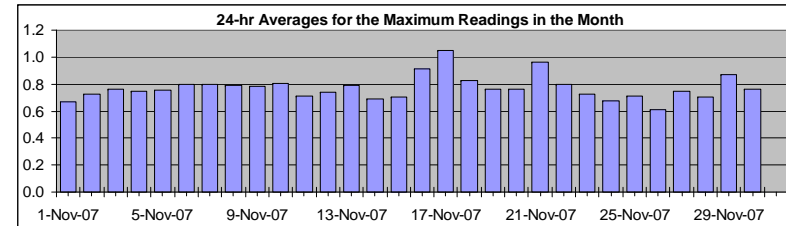
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	2.2	ppb	9-Nov	20:00	21:00
Maximum 24-hr Value:	1.1	ppb	17-Nov		

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	1.0	0.8	0.7	0.7	0.6	0.5	0.8 ppb	0.7 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-07	1	1	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
2-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
3-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
4-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.0
5-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.0
6-Nov-07	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	1.2
7-Nov-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
8-Nov-07	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	1.2
9-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0.8	2.2
10-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
11-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.7	0.9
12-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.0
13-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.1
14-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	0.9
15-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.0
16-Nov-07	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
17-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	1.1	1.9
18-Nov-07	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.8
19-Nov-07	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	1.0
20-Nov-07	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	1.0
21-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.0	1.4
22-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.8	1.0
23-Nov-07	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	1.0
24-Nov-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
25-Nov-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
26-Nov-07	1	1	1	0	1	1	1	1	1	A	0	1	0	1	1	0	1	1	1	1	1	1	1	1	0.6	0.8
27-Nov-07	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	1.0
28-Nov-07	1	1	1	1	1	1	1	A	1	1	1	1	1	C	C	C	1	0	1	1	1	1	1	1	0.7	1.0
29-Nov-07	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	1.0
30-Nov-07	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
Hourly Avg	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.8		
Hourly Max	1.4	1.8	1.1	1.1	1.0	1.0	0.9	0.9	1.2	1.1	1.2	0.9	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.1	2.2	1.9	1.4	1.4		

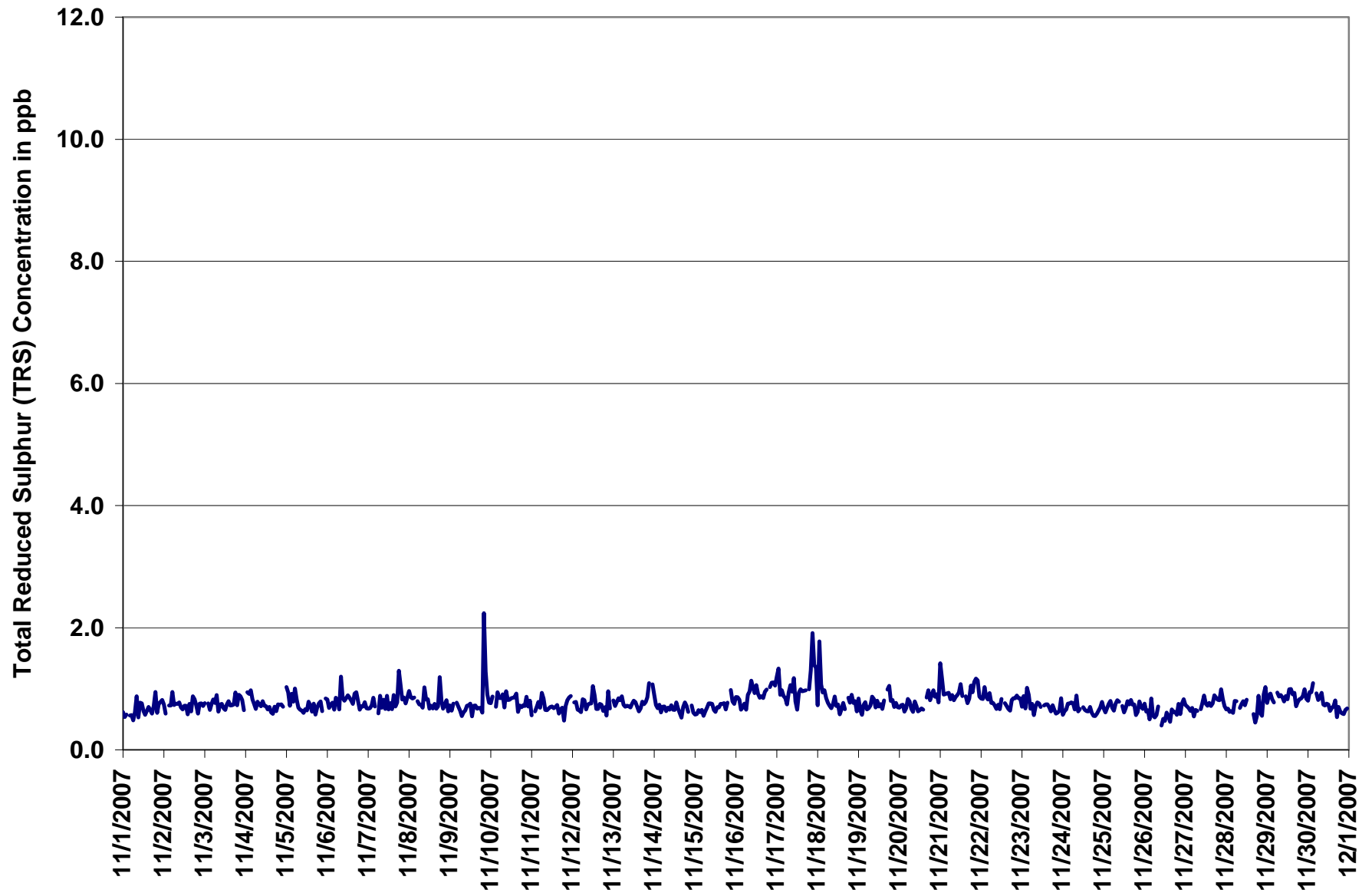
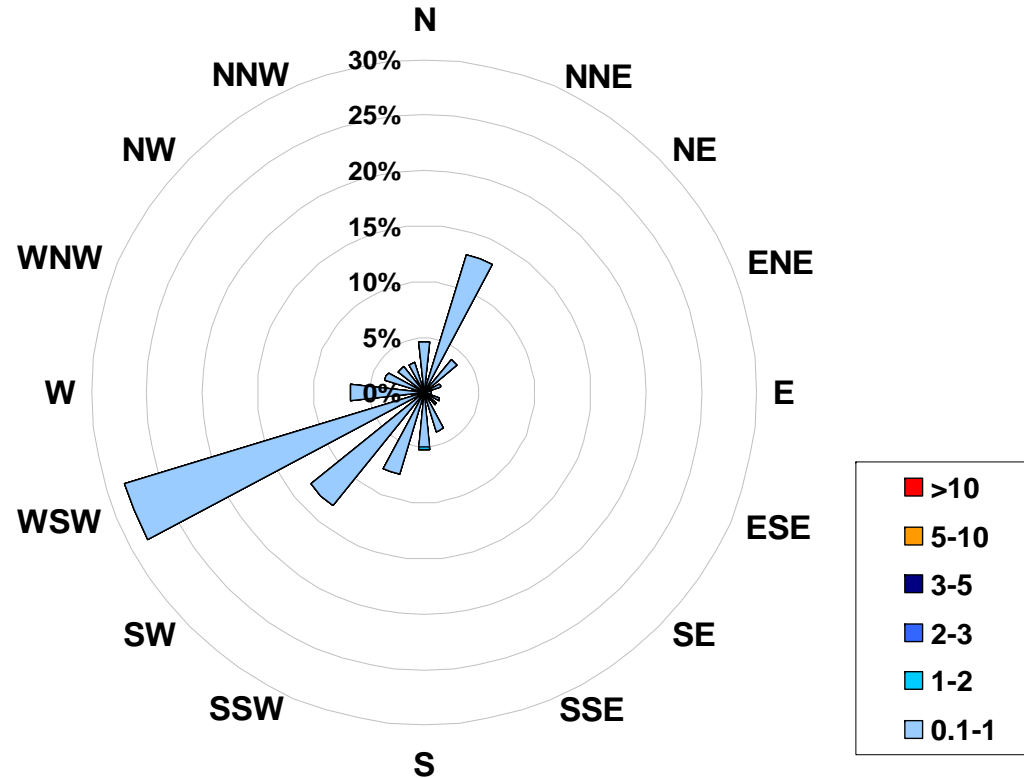


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for November 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	685
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			686

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

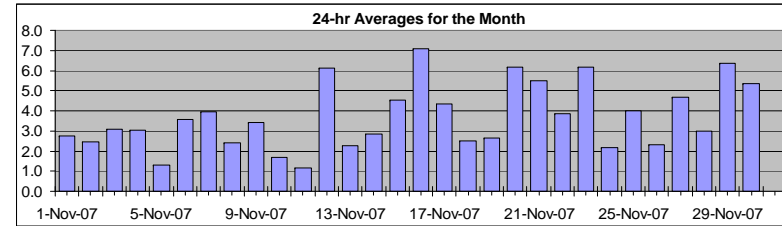
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	54.8 µg/m ³ 12-Nov 14:00 15:00
Maximum 24-hr Value:	7.1 µg/m ³ 16-Nov

AIC Time:	0 hrs	Operational Time:	716 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.4%
Percentile	99	95	75
	13.8	10.2	5.0
	50	25	5
	2.9	1.3	0.0
	0.0	0.0	0.0
	Average / Median		3.7
	3 µg/m ³		3.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	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-Nov-07	4	4	3	3	2	2	2	2	1	1	2	2	0	0	2	2	4	3	4	4	6	5	4	3	3	2.8	5.7
2-Nov-07	3	2	2	1	2	3	2	2	3	3	3	1	1	2	2	1	1	4	5	2	3	3	3	3	2.4	5.0	
3-Nov-07	2	3	3	2	2	2	1	1	1	1	1	1	0	0	0	1	2	12	9	6	8	4	5	4	3.1	12.0	
4-Nov-07	4	3	2	2	1	1	1	2	3	4	3	3	3	5	2	4	7	5	5	3	2	2	3	3	3.0	6.9	
5-Nov-07	2	2	2	1	2	1	1	1	1	1	4	0	0	0	0	0	1	1	1	1	3	5	3	0	1	1.3	4.5
6-Nov-07	2	1	1	1	1	4	3	3	3	4	3	2	0	1	3	11	6	14	8	9	2	1	1	2	3.6	14.2	
7-Nov-07	1	2	2	2	2	3	5	2	5	7	6	1	2	3	3	5	5	6	8	7	6	3	5	4	3.9	8.0	
8-Nov-07	4	2	2	2	2	1	1	3	1	3	3	1	1	1	0	1	1	12	5	1	2	3	4	4	2.4	11.9	
9-Nov-07	3	6	9	7	2	0	0	0	0	1	3	10	2	3	3	3	12	4	4	1	1	1	4	4	3.4	12.3	
10-Nov-07	2	1	0	0	0	0	1	0	1	3	3	4	5	9	4	4	1	0	0	0	0	0	0	1	1.7	8.8	
11-Nov-07	1	0	1	0	0	0	1	1	0	2	2	2	1	1	0	1	0	3	3	1	1	3	3	1	1.1	3.1	
12-Nov-07	0	0	0	1	0	1	5	1	0	0	3	5	28	14	55	D	2	0	3	2	5	6	6	4	6.1	54.8	
13-Nov-07	2	P	3	3	4	3	2	1	2	3	3	3	3	2	2	2	2	1	2	2	2	2	1	2	2.3	4.2	
14-Nov-07	3	2	3	4	2	1	0	1	1	2	2	1	0	0	0	0	0	0	21	10	12	0	D	0	2.8	20.9	
15-Nov-07	1	5	8	5	3	4	6	3	6	6	4	4	5	4	5	5	4	3	3	9	6	3	3	5	4.5	9.2	
16-Nov-07	7	16	5	13	1	2	3	4	6	5	6	11	8	9	6	6	6	7	8	9	8	8	7	8	7.1	15.9	
17-Nov-07	5	5	5	4	3	1	1	0	0	3	2	7	D	0	0	5	6	5	8	7	7	8	9	6	4.3	9.0	
18-Nov-07	6	6	6	10	11	6	2	2	1	0	0	0	1	1	0	1	1	1	1	1	0	0	1	0	2.5	10.9	
19-Nov-07	0	1	1	1	1	1	1	2	2	3	2	3	2	1	1	2	2	3	3	3	7	5	6	9	2.6	9.2	
20-Nov-07	5	5	5	6	6	4	4	4	3	8	4	6	3	4	4	4	3	15	8	13	10	11	9	5	6.2	14.8	
21-Nov-07	8	10	11	9	6	5	4	3	4	7	11	9	5	5	4	1	1	1	3	3	4	5	6	6	5.5	11.4	
22-Nov-07	4	4	3	4	3	3	2	3	2	5	4	2	4	4	4	3	3	4	5	6	6	5	5	6	3.9	5.6	
23-Nov-07	8	9	12	11	10	10	9	9	6	6	7	5	4	4	4	5	6	2	2	2	3	4	4	4	6.2	12.1	
24-Nov-07	3	2	3	4	5	5	4	1	3	2	2	0	0	1	1	2	2	2	1	1	2	2	1	2	2.1	5.3	
25-Nov-07	2	1	2	0	1	1	1	3	4	8	7	2	12	8	5	1	3	7	2	5	8	6	1	6	4.0	12.0	
26-Nov-07	0	0	1	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	5	4	5	10	11	14	2.3	13.5	
27-Nov-07	3	1	2	3	2	5	1	1	4	5	3	3	4	4	3	3	4	23	14	7	7	4	3	3	4.7	23.4	
28-Nov-07	3	4	3	3	4	0	0	0	0	3	5	1	3	3	3	4	1	2	0	5	8	4	5	7	3.0	7.6	
29-Nov-07	8	8	7	7	7	7	8	7	5	9	10	9	9	7	5	3	3	3	4	5	4	3	6	9	6.3	10.2	
30-Nov-07	12	12	13	11	11	11	12	7	3	2	2	1	10	3	0	0	0	0	0	0	2	2	2	12	5.4	12.8	
Hourly Avg	3.6	4.2	4.0	4.0	3.4	2.9	2.9	2.3	2.5	3.7	3.8	3.0	4.0	3.4	4.1	2.7	2.9	4.8	4.7	4.3	4.6	3.8	4.1	4.6			
Hourly Max	12.1	15.9	12.8	13.4	11.5	10.7	12.2	9.0	6.3	9.0	11.2	10.6	28.3	13.8	54.8	10.8	12.3	23.4	20.9	12.6	11.7	10.8	10.7	13.5			

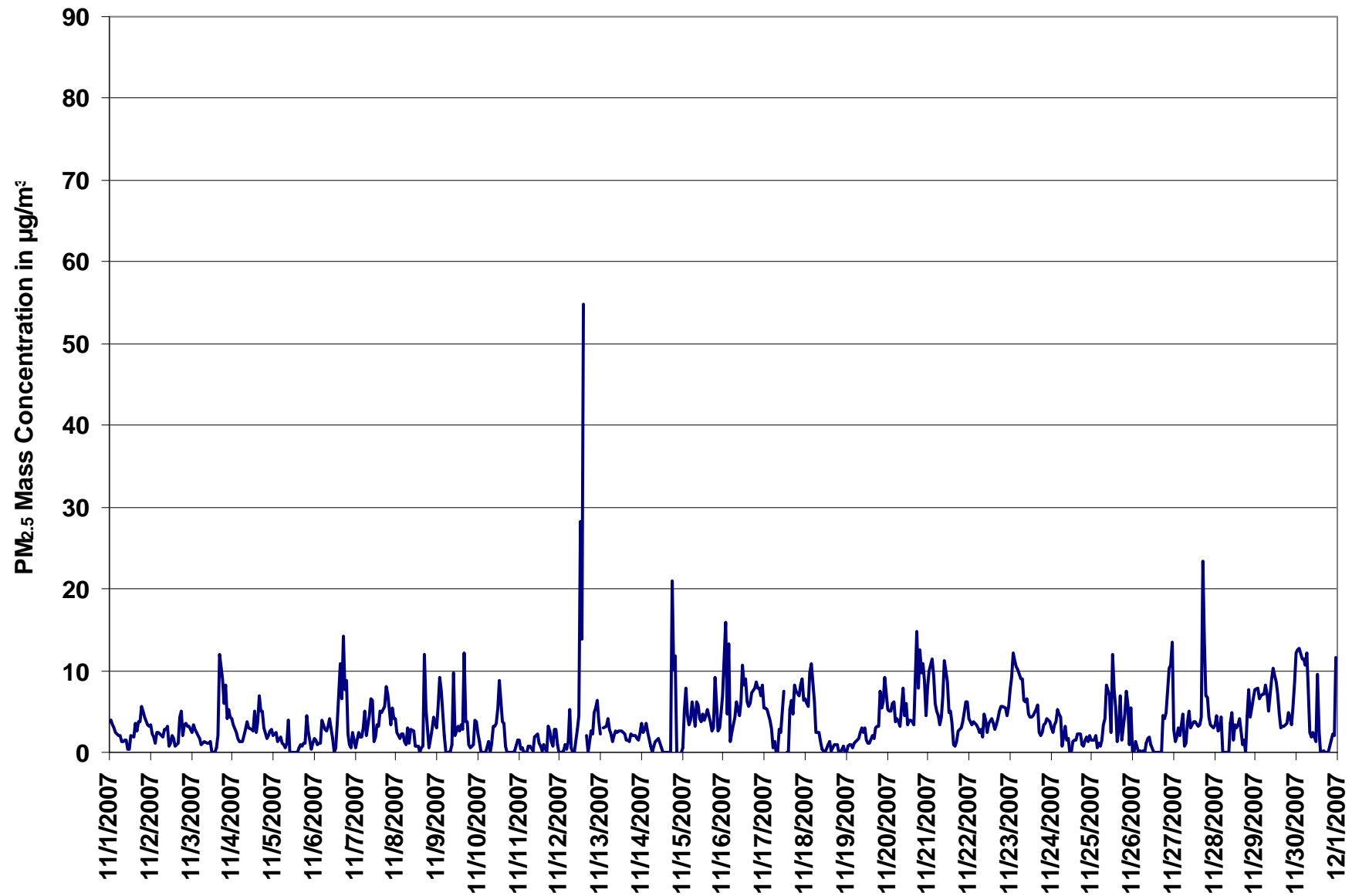


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

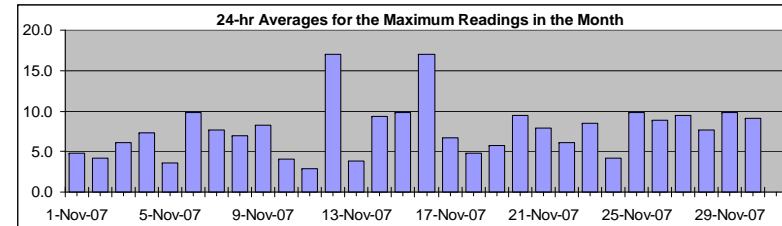
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	153.3	µg/m ³	12-Nov	14:00 15:00
Maximum 24-hr Value:	17.0	µg/m ³	16-Nov	



AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	45.0	21.0	8.8	5.3	3.3	1.4	0.0	7.7	5 µg/m ³
									7.0 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-Nov-07	5	6	6	5	4	3	4	3	2	3	3	1	5	6	4	10	4	5	7	6	6	5	5	4.7	9.8	
2-Nov-07	4	3	3	2	4	4	4	3	5	4	4	3	3	4	4	2	4	8	8	4	5	5	5	4.2	7.8	
3-Nov-07	4	5	4	4	4	3	3	3	4	2	3	4	1	2	1	2	6	22	22	14	14	5	10	6.1	21.9	
4-Nov-07	5	4	4	4	2	3	2	4	6	7	9	6	6	10	6	10	17	17	22	10	3	5	5	7.4	22.3	
5-Nov-07	5	5	5	3	4	3	3	2	5	6	3	1	0	1	2	2	3	2	4	4	7	8	5	5	3.6	7.8
6-Nov-07	4	4	3	3	4	6	5	5	6	6	5	4	2	2	6	22	31	36	30	24	11	6	2	8	9.8	36.1
7-Nov-07	3	5	4	4	3	5	8	9	11	21	16	3	4	5	5	6	7	8	13	14	10	5	8	7	7.7	20.6
8-Nov-07	6	5	4	4	4	3	3	17	5	5	5	3	3	2	2	2	2	59	10	3	3	4	6	5	6.9	58.8
9-Nov-07	8	9	10	12	5	1	1	1	1	3	26	7	6	6	9	6	45	8	8	3	4	6	6	6	8.2	45.2
10-Nov-07	3	4	1	0	0	1	4	5	3	5	5	6	8	21	10	5	3	2	2	1	1	1	2	3	4.0	20.9
11-Nov-07	3	2	2	1	1	2	2	2	3	3	4	4	3	2	2	3	2	5	5	3	2	5	3	3	2.9	5.2
12-Nov-07	0	1	2	6	3	4	11	10	1	0	20	22	44	32	153	26	20	4	10	10	8	8	8	6	17.0	153.3
13-Nov-07	4	P	5	4	6	5	3	3	3	4	4	4	4	4	4	3	2	4	3	4	3	3	5	3.8	5.5	
14-Nov-07	5	4	4	5	5	3	1	2	3	3	3	3	2	1	1	0	0	1	83	55	36	6	0	0	9.4	83.1
15-Nov-07	6	9	22	11	13	6	21	8	13	16	8	6	7	5	7	8	6	4	5	25	9	4	7	9	9.8	24.9
16-Nov-07	13	84	49	54	6	4	10	12	15	8	8	16	15	16	11	9	7	9	11	11	9	9	9	13	17.0	84.1
17-Nov-07	10	8	7	7	5	2	5	6	4	5	5	11	0	0	1	10	10	7	10	10	9	10	11	9	6.7	11.2
18-Nov-07	13	10	8	13	13	10	5	4	4	3	2	1	2	3	3	1	3	3	3	3	3	1	4	1	4.8	13.2
19-Nov-07	2	3	3	3	2	2	2	3	4	5	4	6	3	2	3	3	4	8	4	5	19	16	15	16	5.7	18.9
20-Nov-07	7	7	6	8	8	5	6	5	6	14	12	13	5	6	6	6	6	22	14	16	14	14	15	7	9.4	21.5
21-Nov-07	11	11	14	11	8	6	6	6	6	13	15	13	7	7	6	3	2	5	5	6	5	7	8	8	7.9	14.9
22-Nov-07	7	6	5	7	6	5	5	5	4	6	8	4	6	7	6	4	6	7	6	8	7	8	6	8	6.1	8.2
23-Nov-07	12	13	14	13	12	12	10	11	10	8	8	7	6	6	6	7	9	7	4	4	5	7	6	5	8.5	14.1
24-Nov-07	5	4	5	6	8	7	9	2	6	3	4	3	2	3	3	3	6	4	2	3	3	3	4	4	4.2	9.3
25-Nov-07	3	3	4	2	2	2	3	9	12	13	10	5	31	19	19	4	6	23	10	9	12	14	6	14	9.8	30.6
26-Nov-07	4	3	6	2	5	3	3	4	5	6	6	4	1	3	3	0	0	1	24	19	9	26	37	39	8.9	39.2
27-Nov-07	12	2	4	5	4	20	3	3	8	7	5	4	5	5	5	5	7	38	27	24	15	7	5	7	9.5	37.9
28-Nov-07	6	6	7	10	13	2	2	1	3	10	8	7	6	6	6	10	3	5	4	19	23	9	9	10	7.6	22.5
29-Nov-07	11	11	9	11	11	12	11	11	10	14	13	13	13	10	8	6	5	6	9	8	7	6	10	13	9.8	14.0
30-Nov-07	15	18	15	14	15	13	15	14	5	4	5	3	14	12	1	3	1	1	2	1	4	7	7	29	9.1	28.5
Hourly Avg	6.6	8.7	7.9	7.8	6.0	5.3	5.6	5.8	5.8	6.9	7.7	6.3	7.1	7.0	10.1	6.1	7.7	10.9	12.1	10.7	9.0	7.3	7.6	8.7		
Hourly Max	14.9	84.1	48.7	54.0	15.5	20.4	20.8	17.2	15.0	20.6	25.9	22.3	44.2	31.7	153.3	25.9	45.2	58.8	83.1	54.6	35.7	25.6	36.6	39.2		

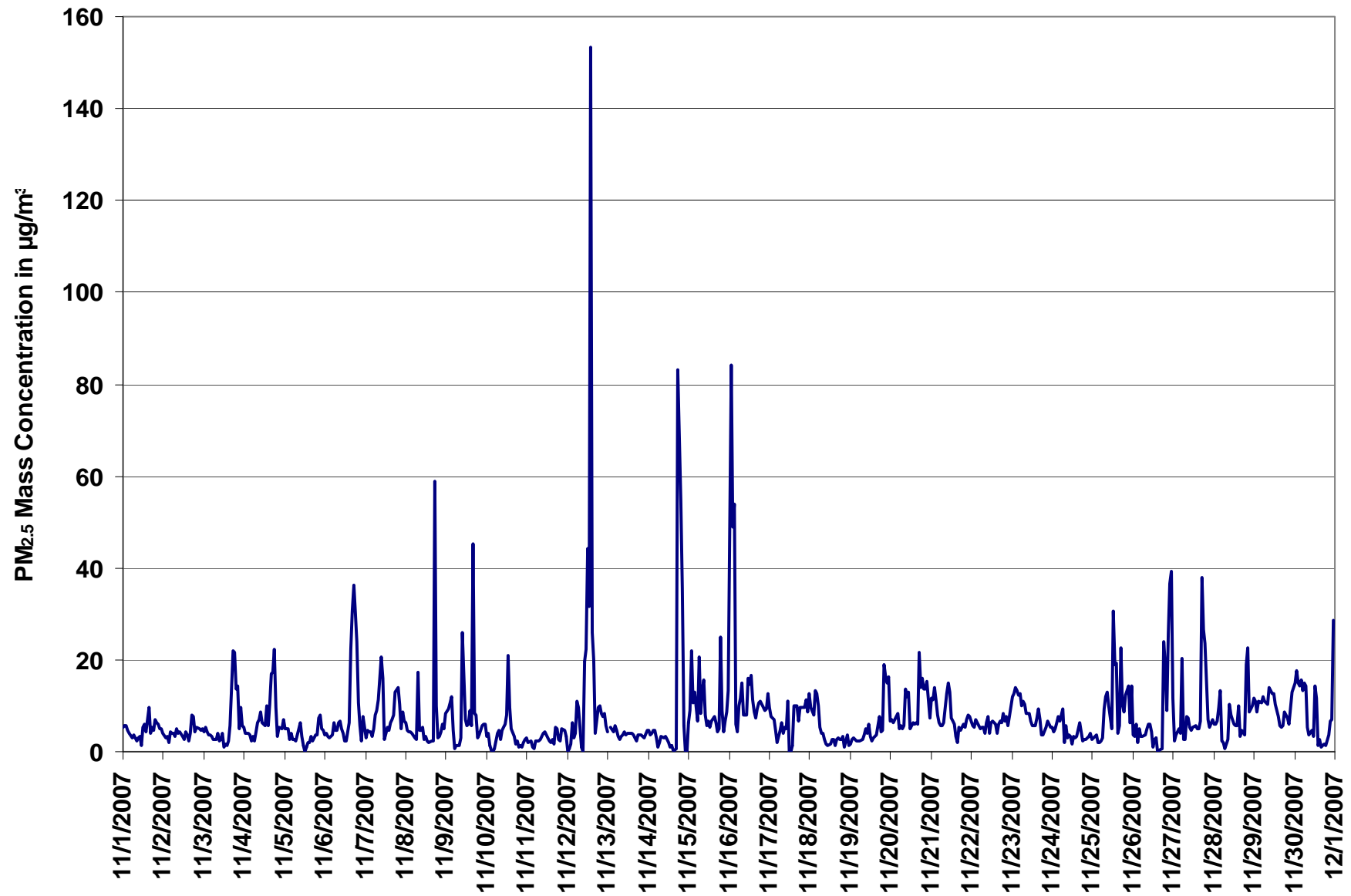
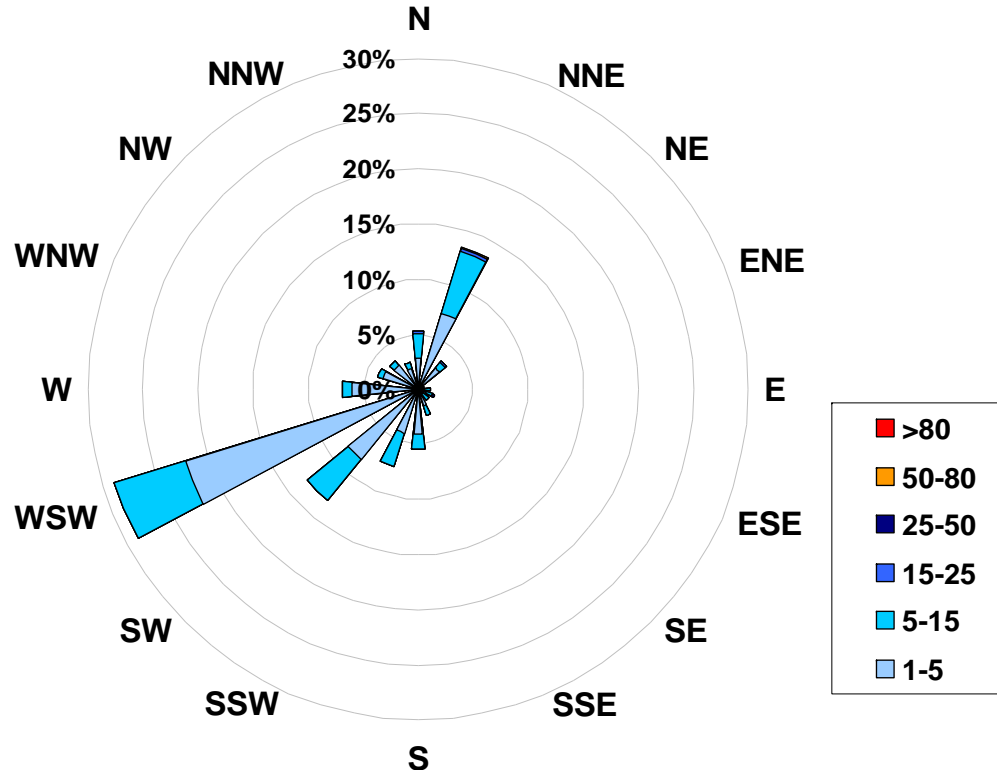


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 November 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	537
5	to	15	174
15	to	25	3
25	to	50	1
50	to	80	1
	>	80	0
Total Non-Zero Values			716

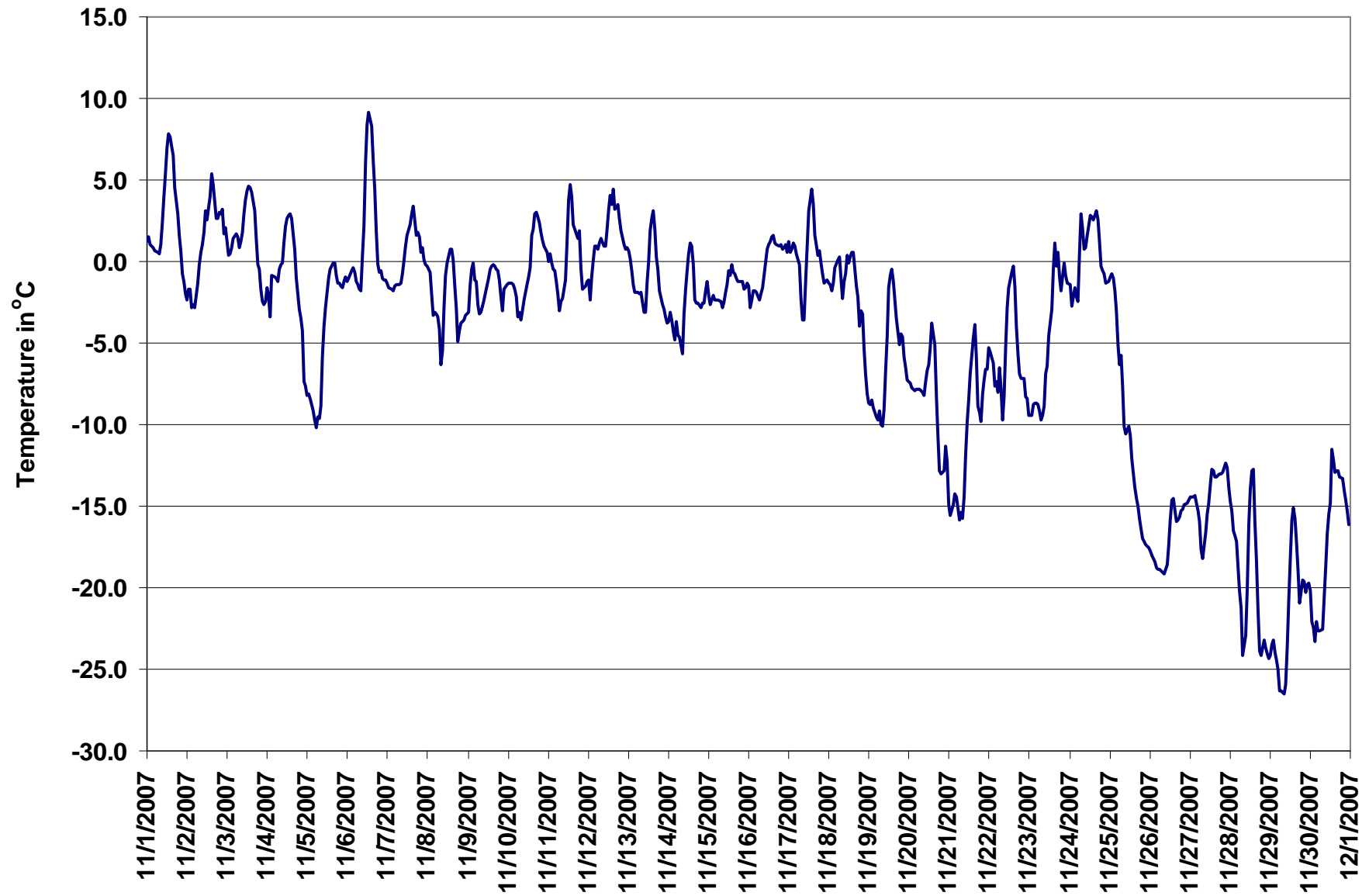
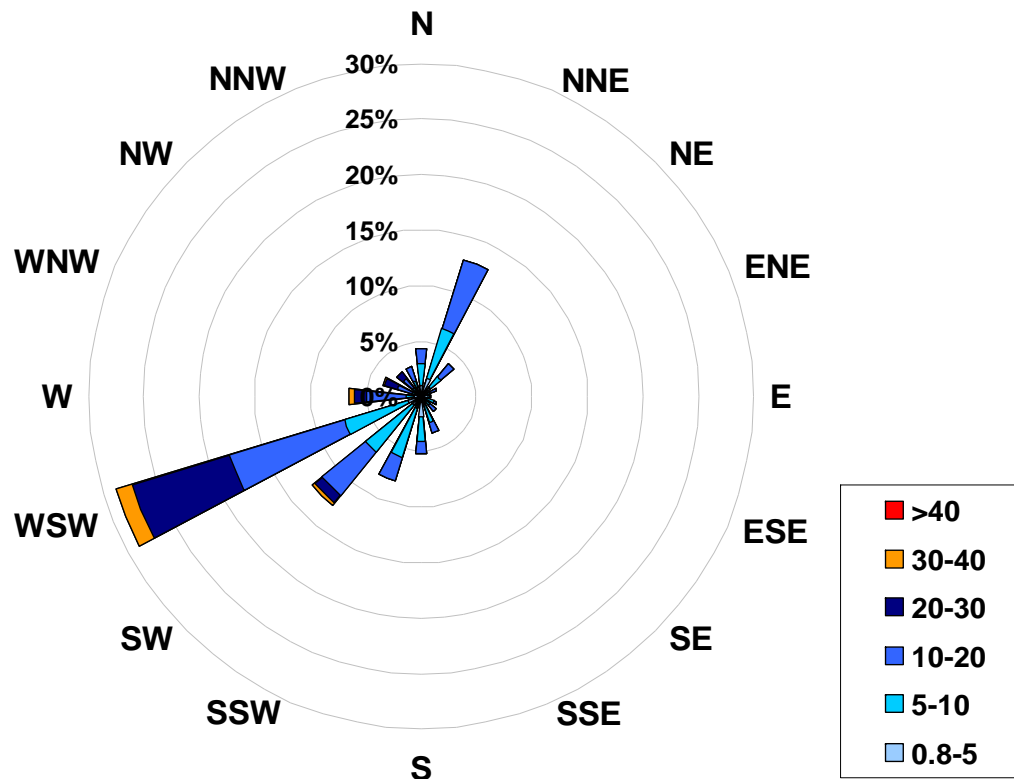


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	94
5	to	10	238
10	to	20	277
20	to	30	94
30	to	40	17
	>	40	0
Total Non-Zero Values			720

PASZA – Beaverlodge Station

Monthly Summary Tables, Graphs and Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	684
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-Nov-07	16	16	17	17	N	17	17	17	17	17	17	17	18	18	18	17	17	17	17	17	17	17	17	16	16	
2-Nov-07	16	15	15	13	N	17	16	11	12	9	7	13	16	17	17	19	20	19	18	17	17	17	17	17	16	
3-Nov-07	17	16	16	17	N	18	18	17	17	18	18	18	18	18	18	18	18	17	15	14	14	13	13	14	14	
4-Nov-07	16	16	15	16	N	15	14	15	15	15	17	17	18	17	17	17	15	14	15	13	12	12	11	12	12	
5-Nov-07	11	12	13	12	N	11	10	8	7	5	8	10	9	9	10	12	12	9	9	9	8	9	10	7	7	
6-Nov-07	7	6	8	7	N	4	6	10	11	10	11	7	12	15	13	12	12	12	11	13	10	11	10	11	11	
7-Nov-07	11	11	10	8	N	6	5	4	4	4	5	5	4	4	4	6	10	13	14	12	14	12	8	5	5	
8-Nov-07	7	10	10	10	N	9	7	6	4	8	9	10	14	17	16	14	14	14	11	10	11	12	8	13	13	
9-Nov-07	12	11	12	12	N	13	13	13	12	12	11	11	10	10	10	10	10	10	10	10	10	10	9	8	6	6
10-Nov-07	5	6	5	5	N	4	4	3	4	6	4	6	9	9	16	18	17	17	17	17	17	17	17	17	17	
11-Nov-07	17	16	16	15	N	16	16	15	15	14	15	15	16	16	15	14	11	12	12	14	14	13	14	15	15	
12-Nov-07	15	15	15	14	N	16	15	16	15	15	14	14	13	16	18	19	19	18	14	13	15	13	10	10	10	
13-Nov-07	13	14	14	14	N	15	12	5	13	12	13	14	N	N	N	15	15	15	16	16	16	15	14	16	16	
14-Nov-07	17	18	18	17	N	17	16	17	16	1	0	N	N	20	18	17	18	18	17	17	17	19	20	18	18	
15-Nov-07	17	16	14	15	N	13	13	11	7	10	13	14	13	13	12	11	9	9	9	11	9	8	7	6	6	
16-Nov-07	6	7	6	7	N	7	7	9	8	9	7	9	8	8	8	7	5	5	9	11	9	8	7	9	9	
17-Nov-07	10	12	15	16	N	15	15	16	15	15	15	14	13	13	13	9	9	11	10	7	6	6	5	7	7	
18-Nov-07	6	4	5	11	N	13	14	17	16	17	16	17	18	18	18	18	17	17	16	15	14	15	15	15	15	
19-Nov-07	15	15	15	14	N	14	13	11	11	13	14	14	12	13	15	12	13	18	17	15	15	15	16	16	16	
20-Nov-07	16	16	15	12	N	14	14	14	13	13	13	14	15	15	15	14	12	13	12	13	11	13	12	13	13	
21-Nov-07	13	11	12	12	N	13	13	12	12	14	16	14	11	14	14	15	16	16	17	17	17	17	17	17	17	
22-Nov-07	17	17	18	18	N	17	17	16	16	17	18	16	17	18	18	14	17	16	18	15	15	16	16	17	17	
23-Nov-07	17	18	17	17	N	15	15	15	12	9	13	16	15	15	16	17	19	20	21	22	21	20	21	21	21	
24-Nov-07	21	21	20	21	N	22	21	22	21	21	21	20	20	19	19	18	19	19	18	18	18	18	17	17	17	
25-Nov-07	17	17	18	18	N	18	18	18	17	17	17	14	13	13	14	14	13	14	15	15	14	15	18	18	18	
26-Nov-07	18	18	18	17	N	16	16	15	15	15	16	16	15	15	15	15	15	14	11	11	12	12	12	13	13	
27-Nov-07	14	14	13	12	N	12	11	8	6	9	10	11	11	10	9	8	8	10	8	12	12	11	13	14	14	
28-Nov-07	14	14	15	14	N	14	14	13	11	12	13	13	11	11	10	10	8	10	11	5	9	10	10	11	11	
29-Nov-07	11	11	12	12	N	13	12	13	13	11	12	11	12	13	14	15	15	15	14	13	11	11	15	16	16	
30-Nov-07	19	21	16	16	N	17	17	14	12	14	13	15	18	18	18	19	19	13	14	19	20	20	20	20	20	

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

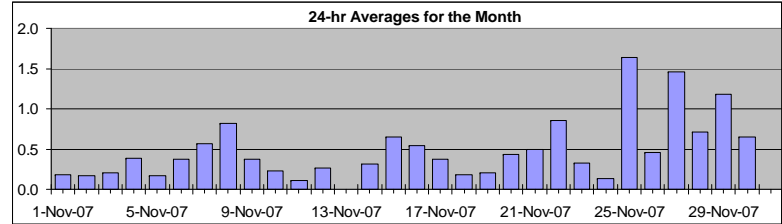
Monitoring Dates: November 1, 2007 to December 1, 2007

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:	10.0 ppb	25-Nov	13:00	14:00
Maximum 24-hr Average:	1.6 ppb	25-Nov		

AIC Time:	33 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.7	1.7	0.6	0.3	0.1	0.1	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 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-Nov-07	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
2-Nov-07	0	0	0	0	A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	1.6	
3-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0.2	1.8	
4-Nov-07	1	0	0	0	A	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4	1.0	
5-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
6-Nov-07	0	0	0	0	A	0	0	0	0	0	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0.4	1.6	
7-Nov-07	0	0	1	1	A	0	0	1	1	0	0	0	0	0	0	0	4	1	0	0	0	1	0	0	0.6	4.3	
8-Nov-07	0	0	0	0	A	0	0	0	0	0	0	2	3	1	1	1	0	1	2	1	1	1	1	0.8	3.2		
9-Nov-07	1	1	1	1	A	1	1	0	1	1	1	1	C	C	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
10-Nov-07	0	0	0	0	A	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
11-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
12-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
13-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	C	C	C	C	C	A	0	0	1	1	0	N	1.4		
14-Nov-07	1	0	0	0	A	0	0	0	0	0	0	0	A	A	0	0	0	0	0	1	1	0	0	1	0.3	1.5	
15-Nov-07	1	1	1	1	A	1	1	0	0	1	0	1	1	1	1	0	0	1	1	1	1	1	0	1	0.7	1.3	
16-Nov-07	1	1	1	0	A	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0.5	0.9	
17-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0.4	1.2	
18-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
19-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
20-Nov-07	1	1	1	1	A	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2	
21-Nov-07	1	1	1	1	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0.5	0.9	
22-Nov-07	1	1	1	0	A	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	2	1	0	0	0.8	2.4	
23-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
24-Nov-07	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	0.5	
25-Nov-07	0	0	0	0	A	0	0	0	0	0	0	1	4	10	4	1	7	2	1	0	0	2	4	0	1.6	10.0	
26-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.5	1.1	
27-Nov-07	2	2	2	2	A	1	1	2	2	1	1	1	1	0	1	1	4	3	1	1	2	2	1	1	1.5	4.2	
28-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0.7	1.1	
29-Nov-07	2	2	2	2	A	2	2	3	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1.2	3.9	
30-Nov-07	2	2	2	1	A	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0.6	2.4	
Hourly Avg	0.5	0.5	0.5	0.5	N	0.4	0.5	0.5	0.5	0.4	0.4	0.6	0.6	0.7	0.5	0.4	0.7	0.6	0.5	0.5	0.5	0.5	0.4				
Hourly Max	1.7	2.4	2.1	2.1	0.0	1.7	1.9	3.1	3.9	2.1	1.3	2.3	4.3	10.0	3.6	1.1	6.6	4.3	2.4	2.3	2.0	1.7	3.9	1.1			

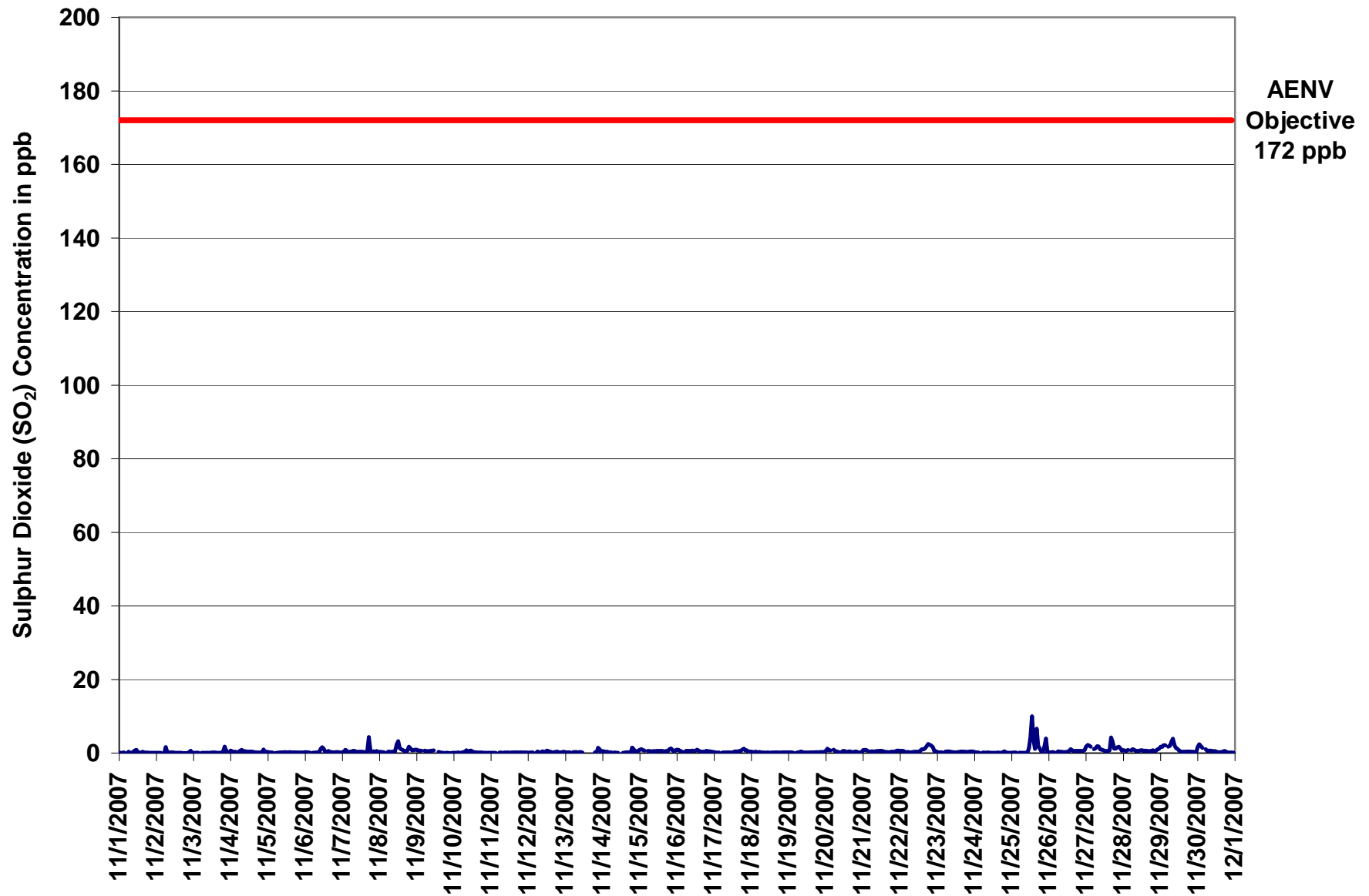


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

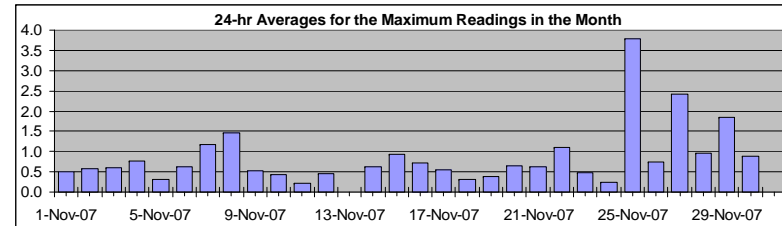
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	16.8	ppb	25-Nov	13:00 14:00
Maximum 24-hr Value:	3.8	ppb	25-Nov	

AIC Time:	33 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.3	2.5	0.8	0.5	0.3	0.2	0.1	0.9 ppb	0.5 ppb



Status Flag Characters

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

Day Mountain Standard Time

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-Nov-07	0	0	0	1	A	0	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0.5	1.1
2-Nov-07	0	0	0	0	A	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.6	6.5
3-Nov-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	1	1	0.6	3.4
4-Nov-07	2	1	0	1	A	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	1	3	0	0	0.8	3.4
5-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	0.5
6-Nov-07	0	0	0	0	A	0	0	0	0	1	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0.6	2.2
7-Nov-07	0	1	1	1	A	1	1	1	1	0	0	1	0	0	0	1	0	7	7	0	1	0	1	0	1.2	7.4
8-Nov-07	1	1	0	0	A	0	1	0	0	0	1	7	6	2	1	1	1	1	1	2	2	1	1	1	1.5	7.2
9-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	C	C	0	0	0	0	0	0	0	0	0	0	0.5	1.3
10-Nov-07	0	0	0	0	A	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
11-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
12-Nov-07	0	0	0	0	A	0	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0.5	1.0
13-Nov-07	0	0	0	0	A	0	0	1	1	0	1	0	C	C	C	C	C	A	0	0	2	2	0	N	2.3	
14-Nov-07	1	0	0	1	A	0	0	0	0	0	0	A	A	0	0	0	0	0	0	4	2	0	1	1	0.6	3.8
15-Nov-07	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0.9	2.3
16-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0.7	1.2
17-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	1	1	1	1	0.6	1.6
18-Nov-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
19-Nov-07	1	1	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.6
20-Nov-07	1	2	1	1	A	1	1	0	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0	1	0.6	1.6
21-Nov-07	1	1	1	1	A	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0.6	1.1
22-Nov-07	1	1	1	0	A	0	0	0	0	0	0	0	1	1	1	2	2	3	3	2	2	1	1	1	1.1	2.9
23-Nov-07	0	0	0	0	A	1	1	1	1	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	0.5	0.7
24-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.2	0.7
25-Nov-07	0	0	0	0	A	0	0	0	0	0	0	5	12	17	8	4	14	3	2	1	0	6	14	0	3.8	16.8
26-Nov-07	0	0	1	1	A	0	1	0	0	0	0	0	0	1	4	1	1	1	1	1	1	1	1	1	0.7	4.0
27-Nov-07	2	3	2	2	A	1	2	2	3	1	1	1	1	1	1	15	7	2	2	2	2	2	2	1	2.4	14.7
28-Nov-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	1.7
29-Nov-07	2	2	3	5	A	3	3	5	7	3	2	1	1	1	0	0	0	0	1	1	0	0	0	1	1.8	6.5
30-Nov-07	2	3	2	2	A	1	1	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0.9	2.7
Hourly Avg	0.7	0.7	0.7	0.8	N	0.6	0.9	0.7	0.7	0.7	0.6	1.0	1.2	1.1	0.9	0.6	1.4	1.0	0.9	0.9	0.8	1.0	1.1	0.6		
Hourly Max	2.2	2.9	2.5	5.4	0.0	2.9	6.5	4.6	6.5	3.5	2.0	7.2	11.7	16.8	8.0	3.7	14.7	7.4	6.7	3.8	3.4	5.9	13.7	1.7		

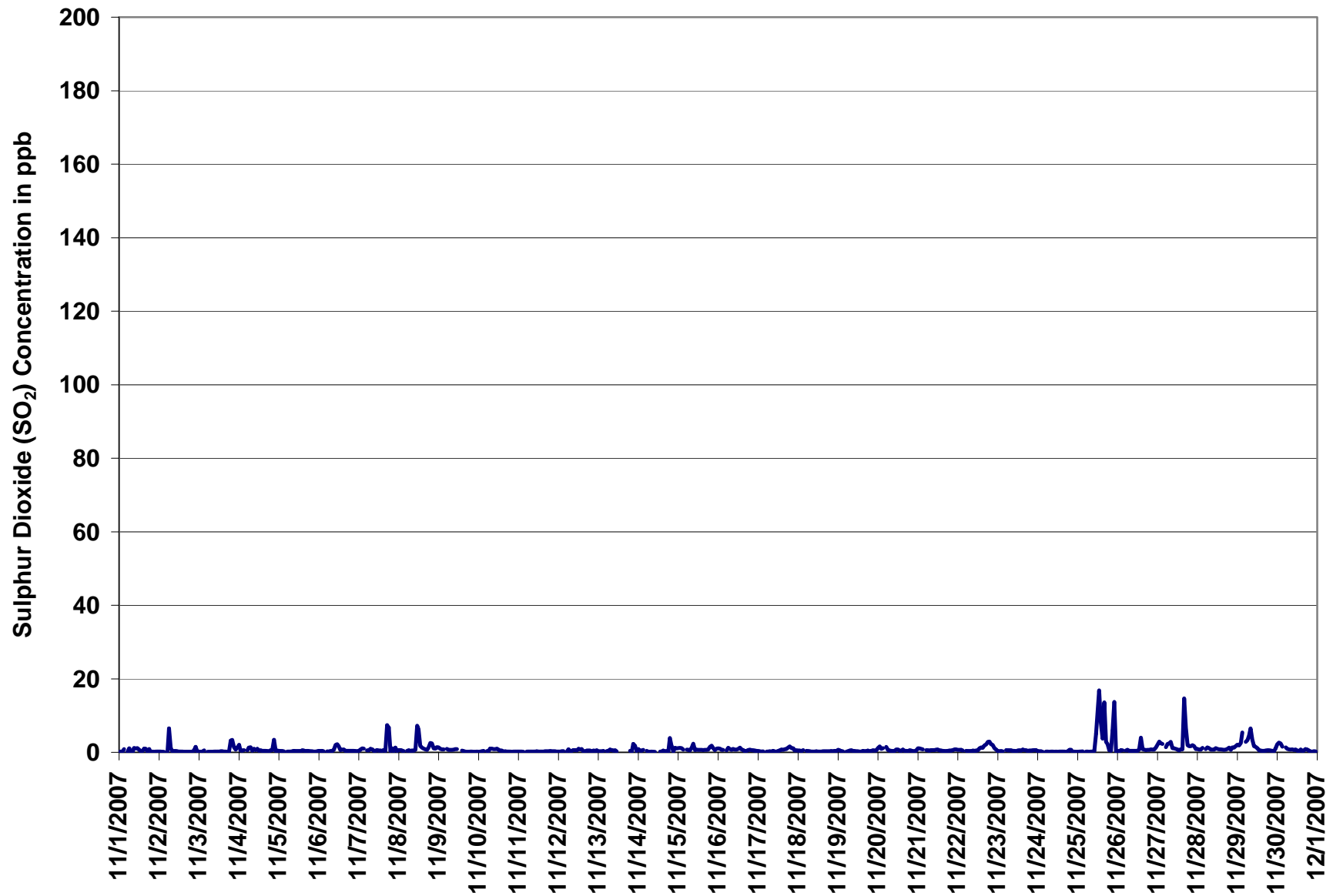
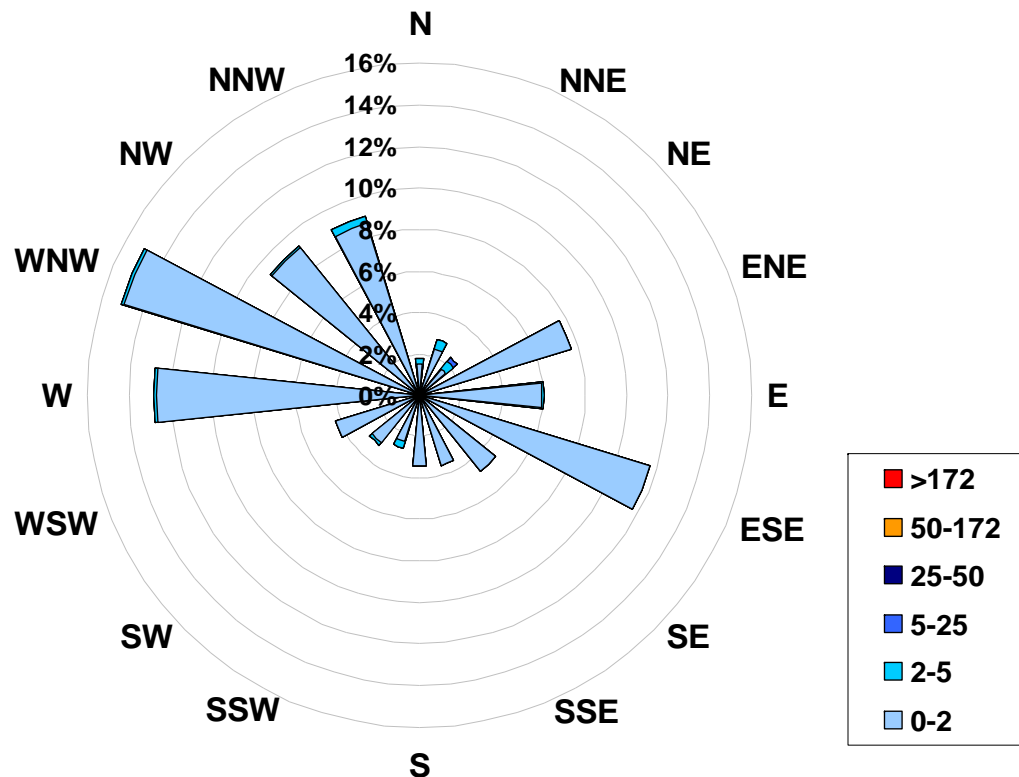


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		660
2	to 5		17
5	to 25		2
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			679

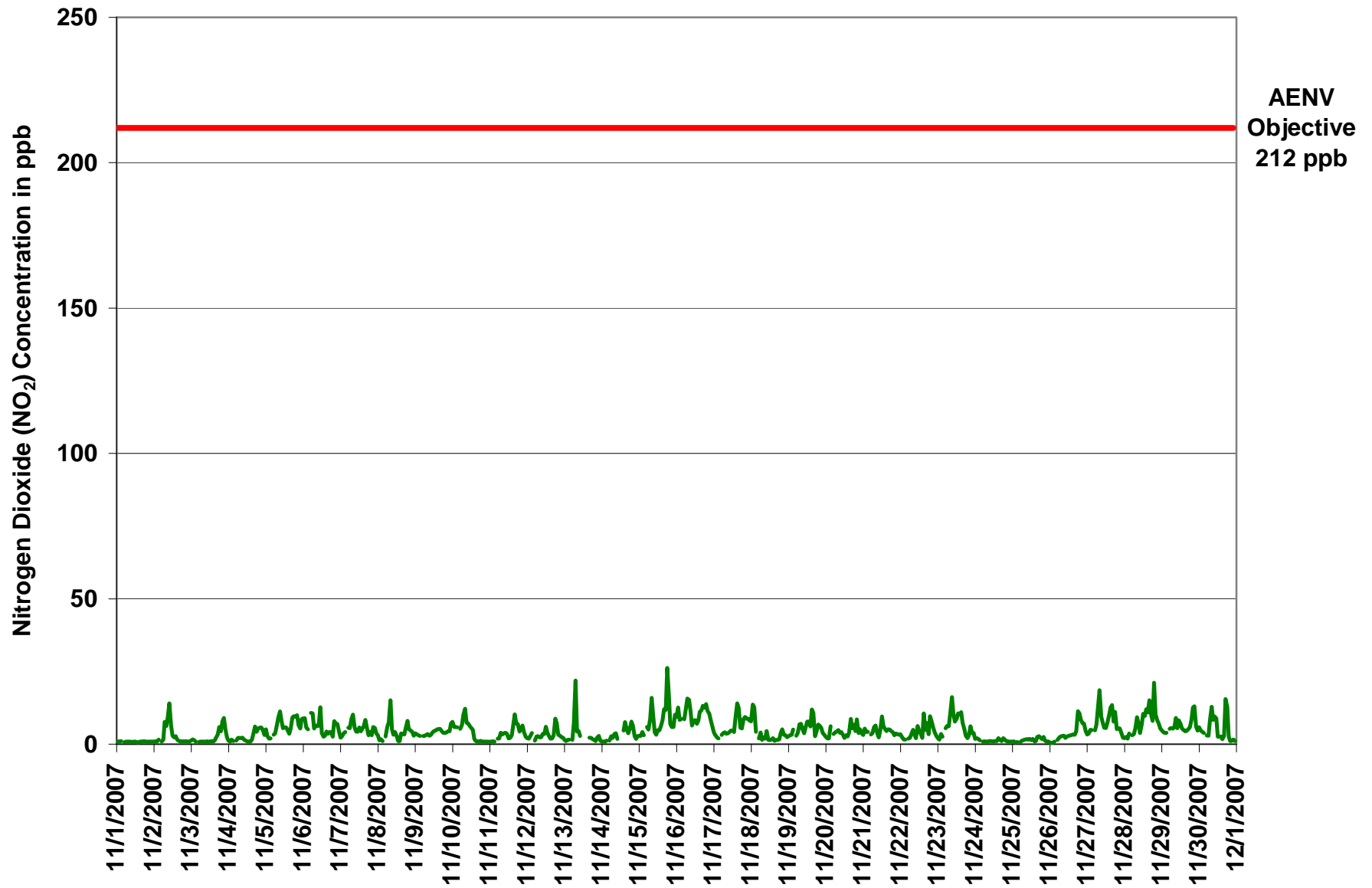


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

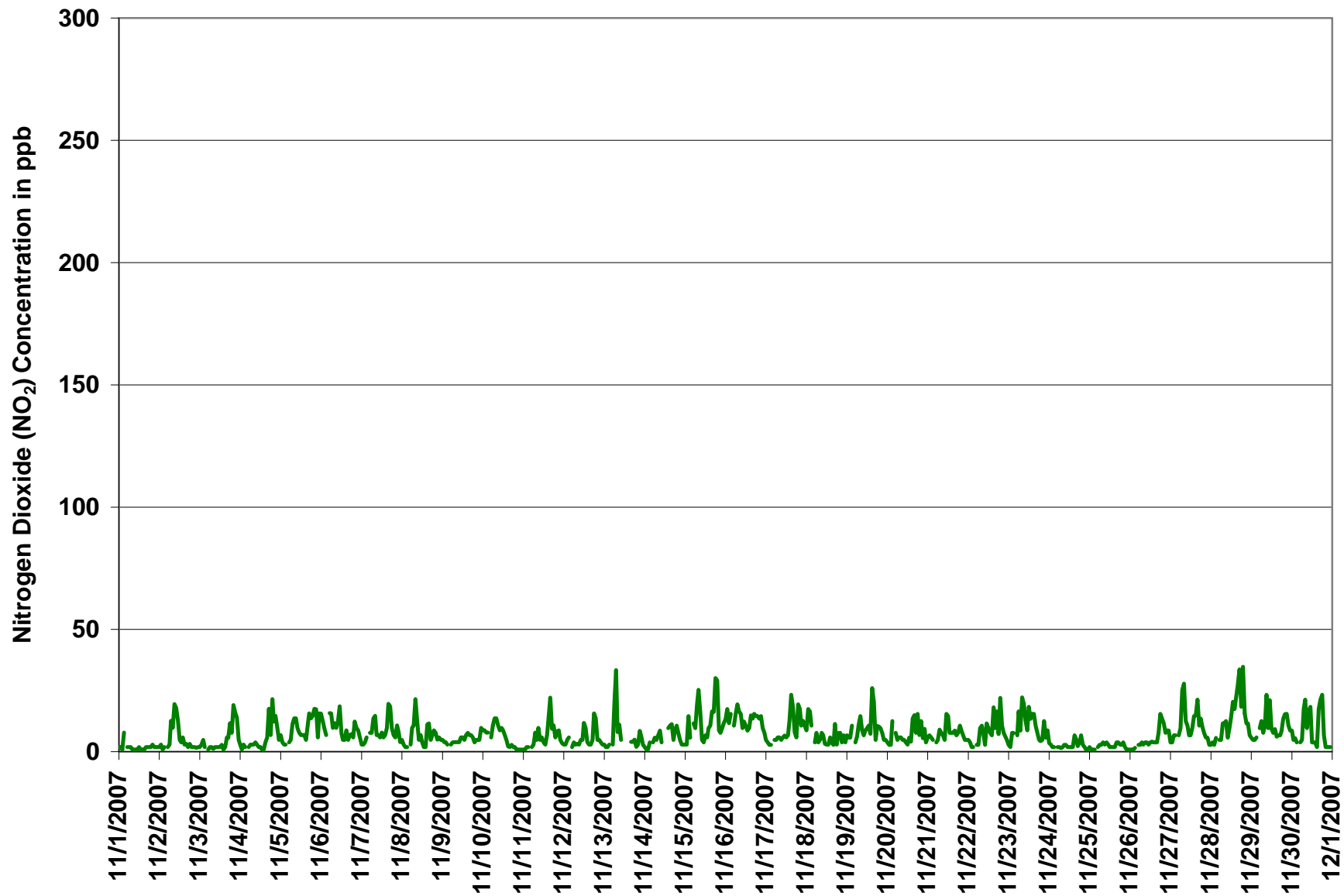
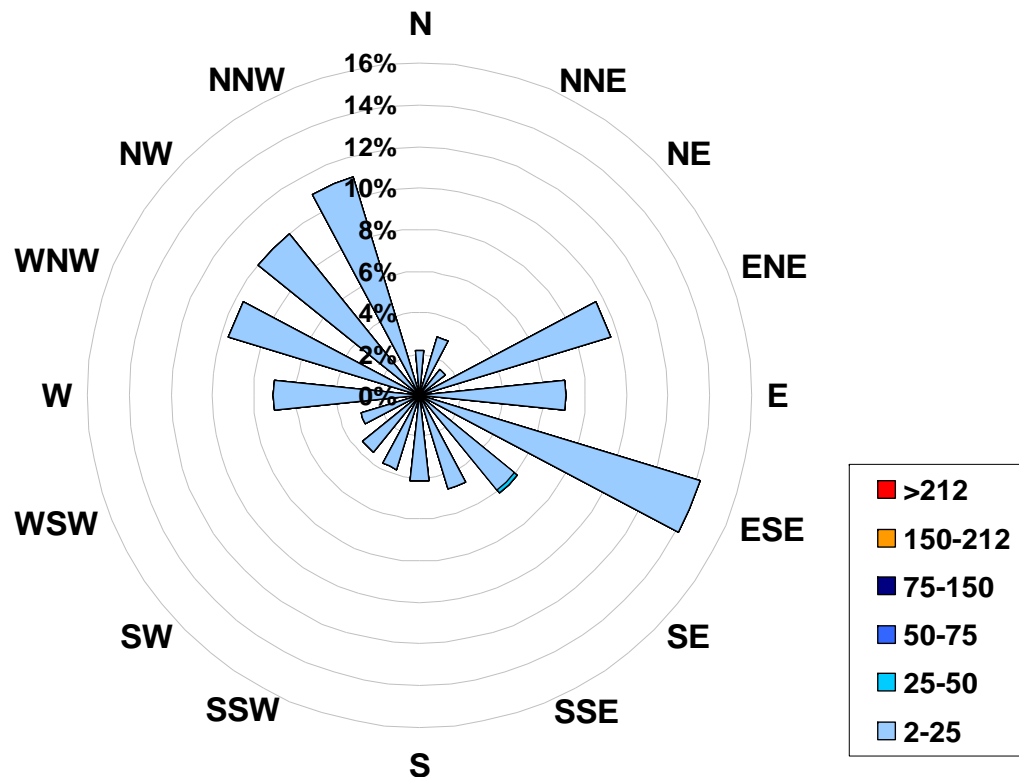


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for November 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	682	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values			682

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

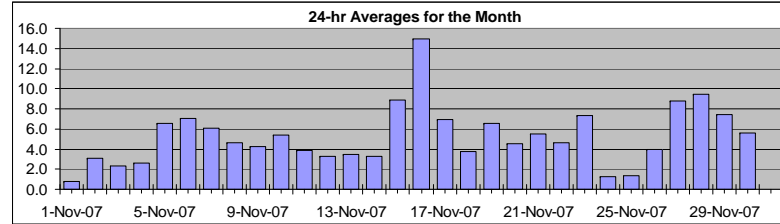
Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	30.7	ppb	15-Nov	18:00 19:00
Maximum 24-hr Average:	15.0	ppb	16-Nov	

AIC Time:	34 hrs	Operational Time:	682 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.9	15.1	6.9	4.0	1.9	0.8	0.3	5.3 ppb	4.0 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-Nov-07	1	1	1	1	A	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.8	1.0
2-Nov-07	0	1	1	1	A	1	2	8	6	10	16	7	3	2	3	2	1	1	1	1	1	1	1	1	1	3.1	15.6
3-Nov-07	1	2	1	0	A	0	1	1	1	1	1	1	1	1	1	1	2	3	6	4	8	9	5	2	2.3	8.9	
4-Nov-07	1	1	1	1	A	1	2	2	2	2	2	1	1	1	1	2	4	6	4	5	5	6	5	3	2.6	6.0	
5-Nov-07	5	3	2	2	A	3	4	7	10	14	9	7	7	6	5	4	6	9	10	9	10	6	5	9	6.5	13.5	
6-Nov-07	9	9	6	5	A	11	11	5	7	7	10	26	5	3	3	5	4	4	4	3	8	7	7	4	7.0	25.6	
7-Nov-07	2	3	4	4	A	6	6	9	11	6	6	7	10	8	9	10	9	5	3	4	3	6	6	4	6.1	11.2	
8-Nov-07	3	1	2	1	A	3	6	8	18	6	5	7	4	1	1	4	4	3	6	8	5	4	4	3	4.6	17.5	
9-Nov-07	4	3	3	3	A	3	3	3	3	3	4	6	6	5	6	6	5	5	4	4	4	4	4	7	4.2	7.0	
10-Nov-07	8	6	6	6	A	5	7	11	14	10	13	16	9	7	2	1	1	1	1	1	1	1	0	0	5.4	15.8	
11-Nov-07	0	1	1	1	A	2	2	4	3	4	5	5	3	3	4	7	11	7	7	4	5	6	4	2	3.9	10.6	
12-Nov-07	2	2	3	4	A	1	3	3	2	3	4	4	7	4	3	2	2	3	9	7	3	3	2	2	3.3	8.8	
13-Nov-07	1	1	1	2	A	1	7	24	4	5	4	C	C	C	C	A	2	1	1	1	1	2	2	1	3.5	24.3	
14-Nov-07	0	0	0	1	A	1	2	2	3	4	1	A	A	A	6	9	5	4	5	8	6	3	2	3	3.2	8.9	
15-Nov-07	3	3	4	3	A	6	5	9	17	10	5	4	7	7	9	10	13	12	31	17	7	6	6	10	8.8	30.7	
16-Nov-07	9	13	8	9	A	9	17	28	26	25	13	21	21	17	14	18	14	15	16	15	12	11	8	6	15.0	28.3	
17-Nov-07	4	3	2	2	A	3	4	4	4	4	5	7	7	6	14	21	14	6	5	10	10	9	9	8	7.0	21.3	
18-Nov-07	8	14	13	4	A	2	4	1	2	2	6	2	2	2	3	1	2	2	2	4	5	3	3	2	3.8	14.2	
19-Nov-07	3	3	3	5	A	3	4	7	7	6	5	9	14	13	9	16	12	3	4	7	6	6	4	3	6.5	16.5	
20-Nov-07	2	2	2	6	A	3	4	4	5	4	5	4	3	5	4	5	10	5	7	4	8	4	5	3	4.6	9.5	
21-Nov-07	3	5	4	4	A	3	4	6	6	4	3	9	19	10	8	5	5	5	4	4	3	4	3	3	5.5	19.0	
22-Nov-07	3	2	1	1	A	2	2	3	5	4	2	9	7	5	3	13	5	7	3	10	8	6	4	3	4.7	13.0	
23-Nov-07	2	2	3	2	A	5	6	6	11	19	13	11	13	15	13	12	7	5	3	2	3	6	4	4	7.3	19.1	
24-Nov-07	2	2	2	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1.2	2.2	
25-Nov-07	1	0	0	0	A	0	1	1	2	2	2	2	2	2	1	1	2	3	2	1	2	1	1	0	1.3	2.5	
26-Nov-07	0	0	0	0	A	1	2	2	3	3	3	3	4	4	4	4	3	4	11	11	8	7	7	4	3.9	11.3	
27-Nov-07	3	3	5	5	A	5	7	14	21	11	10	8	9	12	16	17	16	8	11	5	5	5	4	2	8.8	21.0	
28-Nov-07	2	2	2	3	A	3	3	5	9	8	5	10	18	17	20	15	18	12	8	26	10	8	7	5	9.4	25.7	
29-Nov-07	5	4	4	4	A	5	5	5	6	13	8	17	13	9	7	6	5	5	6	8	13	13	6	5	7.5	17.4	
30-Nov-07	6	5	4	4	A	3	3	8	13	9	12	13	3	3	3	2	3	16	13	3	1	1	1	1	5.6	15.6	
Hourly Avg	3.1	3.2	3.0	2.9	N	3.1	4.2	6.4	7.4	6.7	5.9	7.8	7.1	6.1	5.9	6.9	6.2	5.4	6.3	6.2	5.4	4.9	4.0	3.4			
Hourly Max	9.3	14.2	12.8	9.2	0.0	11.2	16.5	28.3	26.0	24.8	15.6	25.6	20.9	17.2	20.2	21.3	17.8	15.6	30.7	25.7	12.6	13.0	9.0	9.9			

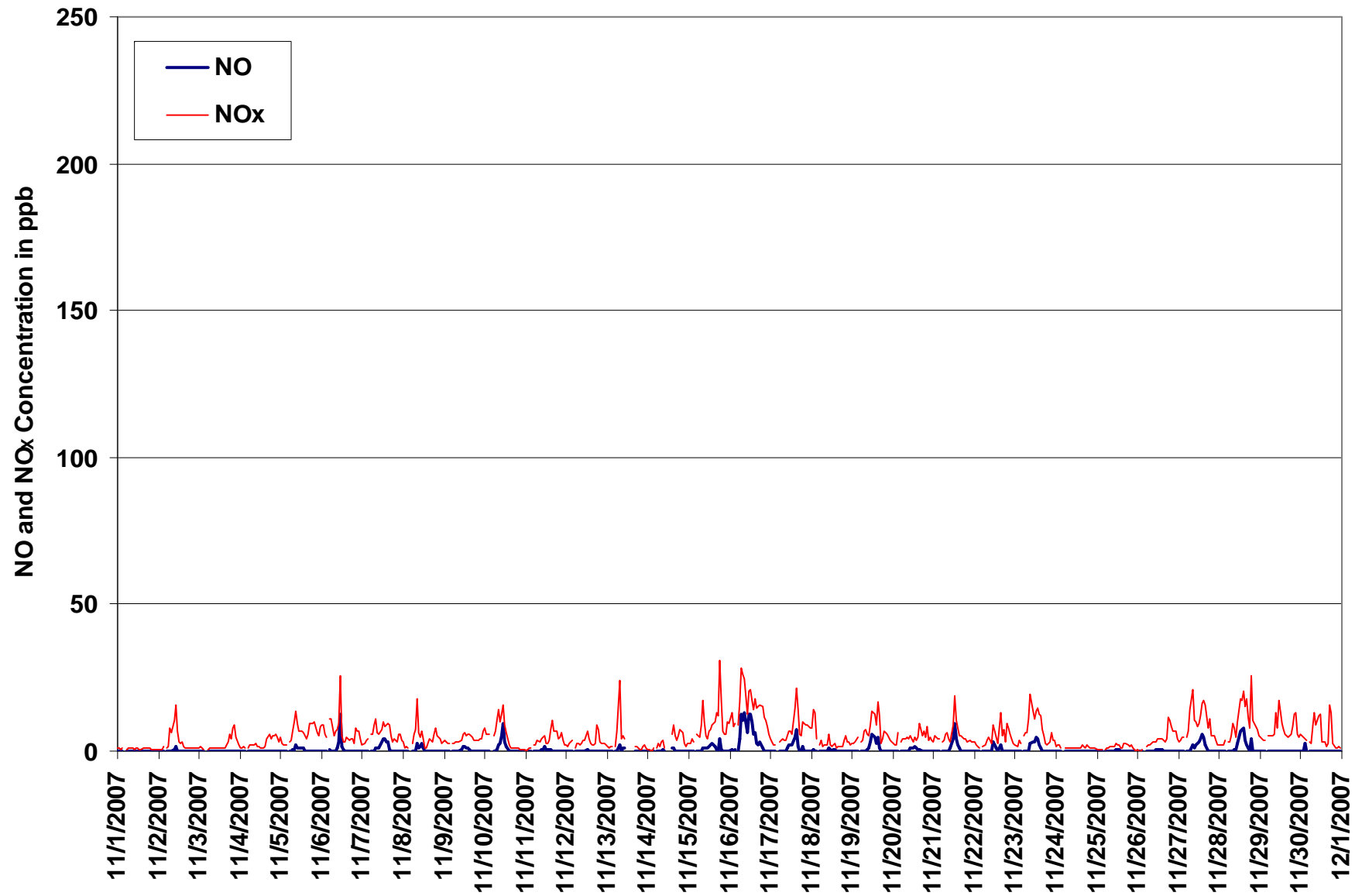


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA
 Monitoring Dates: November 1, 2007 to December 1, 2007

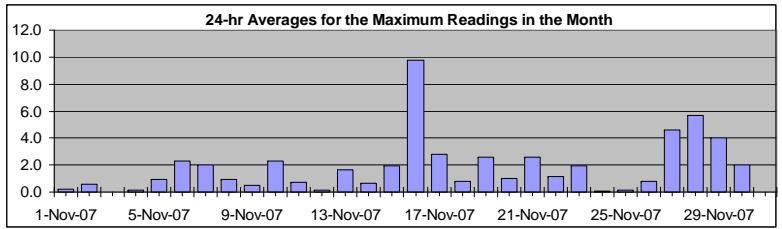
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Summary

Maximum 1-hr Value:	49.0 ppb	27-Nov	8:00 9:00
Maximum 24-hr Value:	9.7 ppb	16-Nov	

AIC Time:	34 hrs	Operational Time:	682 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.6	9.8	1.6	0.0	0.0	0.0	0.0	1.8 ppb	0.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-07	0	0	0	4	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	3.7
2-Nov-07	0	0	0	0	A	0	0	1	0	4	3	1	1	1	0	0	0	0	1	0	0	0	0	0	0.5	3.9
3-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
4-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1	0	0	0.2	1.9
5-Nov-07	0	0	0	0	A	0	0	4	2	3	2	2	1	1	1	1	1	0	0	0	1	1	0	1	0.9	3.9
6-Nov-07	1	0	0	0	A	1	1	0	1	3	10	28	6	1	1	1	0	0	0	0	0	0	0	0	2.3	27.6
7-Nov-07	0	0	0	0	A	0	0	1	4	2	2	4	6	6	5	12	4	1	1	0	0	0	0	0	2.0	12.1
8-Nov-07	0	0	0	0	A	0	0	0	6	4	3	6	2	0	0	1	1	0	0	0	0	0	0	0	1.0	5.9
9-Nov-07	0	0	0	0	A	0	0	0	0	0	1	3	3	1	2	1	1	0	0	0	0	0	0	0	0.5	2.9
10-Nov-07	0	0	0	0	A	0	0	2	4	4	12	19	6	4	1	1	0	1	0	0	0	0	0	0	2.3	18.6
11-Nov-07	0	0	0	0	A	0	0	0	0	3	2	3	2	1	1	2	3	0	0	0	0	0	0	0	0.7	2.9
12-Nov-07	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.1	1.0
13-Nov-07	0	0	0	0	A	0	1	18	0	6	4	C	C	C	C	A	1	0	0	0	0	0	0	0	1.6	17.7
14-Nov-07	0	0	0	0	A	0	0	0	1	2	2	A	A	A	3	3	2	0	0	0	0	0	0	0	0.6	2.9
15-Nov-07	0	0	2	0	A	0	0	1	4	2	2	2	2	3	4	3	2	0	13	6	0	0	0	0	1.9	12.7
16-Nov-07	1	3	1	6	A	1	19	25	19	26	9	24	17	15	8	21	5	6	14	3	1	1	0	0	9.7	26.0
17-Nov-07	0	0	0	0	A	0	0	0	0	1	2	4	3	3	8	21	4	0	0	15	2	0	3	1	2.8	20.5
18-Nov-07	0	3	1	0	A	0	0	0	0	1	3	1	1	1	3	0	0	4	0	0	0	0	0	0	0.8	3.9
19-Nov-07	0	0	0	0	A	0	0	1	2	1	2	6	8	8	4	23	6	0	0	0	0	0	0	0	2.6	22.7
20-Nov-07	0	0	0	0	A	0	0	0	0	1	2	2	2	4	2	4	3	1	1	0	0	0	1	1	1.0	3.9
21-Nov-07	0	1	1	1	A	0	0	0	0	1	4	21	19	5	4	3	0	0	0	0	0	0	0	0	2.6	20.5
22-Nov-07	0	0	0	0	A	0	0	0	0	1	1	7	5	4	2	5	1	0	0	1	0	0	0	0	1.1	6.8
23-Nov-07	0	0	0	0	A	0	1	0	2	5	4	4	17	6	5	2	0	0	0	0	0	0	0	0	1.9	16.6
24-Nov-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.0	0.9
25-Nov-07	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.9
26-Nov-07	0	0	0	0	A	0	0	0	1	0	1	2	2	2	1	1	0	0	1	1	1	1	0	1	0.8	2.2
27-Nov-07	1	1	1	1	A	1	0	3	49	2	4	4	6	7	10	6	7	1	1	1	0	0	0	0	4.6	49.0
28-Nov-07	1	1	0	1	A	1	1	0	0	2	2	5	11	28	15	13	11	16	1	21	1	0	0	0	5.6	27.8
29-Nov-07	0	0	0	4	A	10	11	10	10	9	0	23	0	0	0	6	1	0	0	1	5	0	0	2	4.0	22.6
30-Nov-07	4	5	11	4	A	3	2	2	3	3	3	5	0	0	1	0	0	0	0	0	0	0	0	0	2.0	11.4
Hourly Avg	0.3	0.4	0.6	0.7	N	0.6	1.2	2.3	3.6	2.8	2.7	6.2	4.3	3.6	2.8	4.4	1.8	1.0	1.1	1.7	0.4	0.2	0.2	0.2		
Hourly Max	4.3	5.5	11.4	5.8	0.0	9.7	18.6	25.5	49.0	26.0	11.8	27.6	18.6	27.8	15.1	22.7	11.3	16.1	13.7	20.5	5.1	1.1	2.9	1.7		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

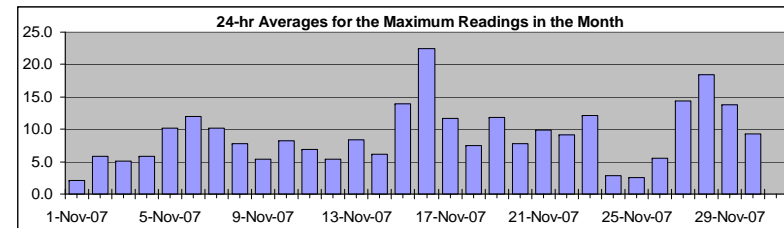
Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	67.8	ppb	27-Nov	8:00 9:00
Maximum 24-hr Value:	22.4	ppb	16-Nov	

AIC Time:	34 hrs		Operational Time:	682 hrs					
Calibration Time:	4 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	46.3	25.2	11.7	6.5	2.9	1.7	0.9	9.1 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

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-Nov-07	3	2	1	12	A	2	2	3	1	1	2	1	2	1	2	2	2	2	2	3	2	2	1	2.1	11.5	
2-Nov-07	2	3	1	2	A	2	3	14	10	23	21	14	6	5	7	3	4	2	5	2	2	2	2	5.8	23.2	
3-Nov-07	2	3	5	2	A	1	2	2	2	2	2	2	3	3	1	2	6	6	12	8	19	16	13	5.0	19.1	
4-Nov-07	3	1	2	2	A	2	3	3	3	4	3	3	3	1	1	4	7	18	7	23	12	16	10	5.8	23.5	
5-Nov-07	7	4	2	3	A	4	4	12	16	17	12	10	9	8	8	5	11	17	14	15	19	18	6	10.2	18.5	
6-Nov-07	16	13	10	7	A	18	17	10	12	13	22	46	13	6	5	10	5	7	7	6	12	10	9	6	12.0	46.1
7-Nov-07	3	3	4	6	A	8	8	15	18	9	8	10	13	11	11	22	23	20	9	7	6	11	8	4	10.2	23.5
8-Nov-07	5	3	2	2	A	3	10	11	26	17	8	13	6	2	2	13	13	5	7	9	8	5	6	5	7.7	26.5
9-Nov-07	5	4	4	3	A	3	4	4	4	4	4	9	9	6	8	8	8	7	6	4	5	5	5	10	5.4	9.7
10-Nov-07	9	9	8	7	A	6	11	16	16	14	21	28	13	11	5	3	3	4	2	2	1	1	1	1	8.2	28.2
11-Nov-07	1	1	2	2	A	2	3	8	5	13	7	9	5	4	8	15	25	9	11	6	8	9	5	3	6.9	25.1
12-Nov-07	3	3	5	6	A	2	4	3	4	4	5	6	12	10	5	3	3	5	16	13	4	5	5	3	5.5	15.6
13-Nov-07	3	2	2	3	A	3	22	51	8	16	8	C	C	C	C	A	4	3	4	2	2	8	6	3	8.3	51.0
14-Nov-07	2	1	1	4	A	4	6	4	7	9	5	A	A	A	13	13	13	5	9	11	8	4	3	3	6.1	13.3
15-Nov-07	3	3	17	6	A	12	10	19	29	18	6	6	9	9	14	13	18	17	42	34	9	8	10	12	13.9	42.0
16-Nov-07	14	20	13	21	A	11	34	44	35	38	17	37	25	21	18	36	18	19	29	18	15	16	10	8	22.4	44.0
17-Nov-07	5	4	3	3	A	5	5	6	6	6	8	10	9	10	20	44	21	8	6	34	19	11	16	12	11.6	43.6
18-Nov-07	9	20	18	11	A	4	8	4	5	9	9	5	4	4	9	4	3	15	3	7	8	4	7	4	7.4	20.5
19-Nov-07	7	6	6	11	A	4	6	12	16	10	9	14	18	18	11	49	26	5	10	10	10	8	5	5	11.8	48.8
20-Nov-07	4	3	3	13	A	8	5	6	6	5	7	6	5	10	7	18	17	7	16	7	13	5	9	4	7.7	17.5
21-Nov-07	6	7	6	5	A	4	5	10	8	7	8	36	32	13	12	11	9	7	8	12	9	7	5	4	9.9	36.1
22-Nov-07	5	4	2	2	A	3	3	10	11	8	4	18	15	12	9	23	10	17	7	22	11	8	6	5	9.2	23.1
23-Nov-07	3	2	8	7	A	7	17	9	24	25	16	13	35	19	19	18	11	8	5	4	5	13	6	9	12.2	35.2
24-Nov-07	3	3	2	2	A	2	2	1	2	3	3	2	2	3	3	7	5	2	4	8	3	2	1	1	2.8	7.5
25-Nov-07	2	1	1	1	A	2	3	3	4	3	4	4	3	3	2	2	4	4	3	3	4	2	1	1	2.5	3.9
26-Nov-07	1	1	1	2	A	3	3	4	4	4	4	4	5	6	5	5	4	8	16	14	12	8	9	8	5.5	15.5
27-Nov-07	4	4	7	7	A	7	10	27	68	14	15	10	13	16	24	19	28	11	14	10	8	6	6	3	14.3	67.8
28-Nov-07	3	3	3	5	A	4	5	12	12	13	7	16	25	47	32	35	34	50	19	55	17	13	12	6	18.5	54.7
29-Nov-07	6	5	4	6	A	10	13	9	11	43	13	55	18	15	15	10	7	7	9	13	16	11	10	13.8	55.4	
30-Nov-07	9	5	5	4	A	4	5	18	21	11	24	28	5	5	5	3	5	21	24	6	2	2	2	2	9.3	28.3
Hourly Avg	4.8	4.7	4.8	5.4	N	4.8	7.7	11.5	13.0	12.0	9.3	14.8	11.1	9.9	9.5	13.6	11.5	10.4	10.7	12.1	8.8	7.9	6.4	5.2		
Hourly Max	16.0	20.5	17.5	21.4	0.0	17.6	34.2	51.0	67.8	43.0	23.9	55.4	35.2	46.9	32.2	48.8	34.2	49.8	42.0	54.7	19.1	18.4	15.6	16.6		

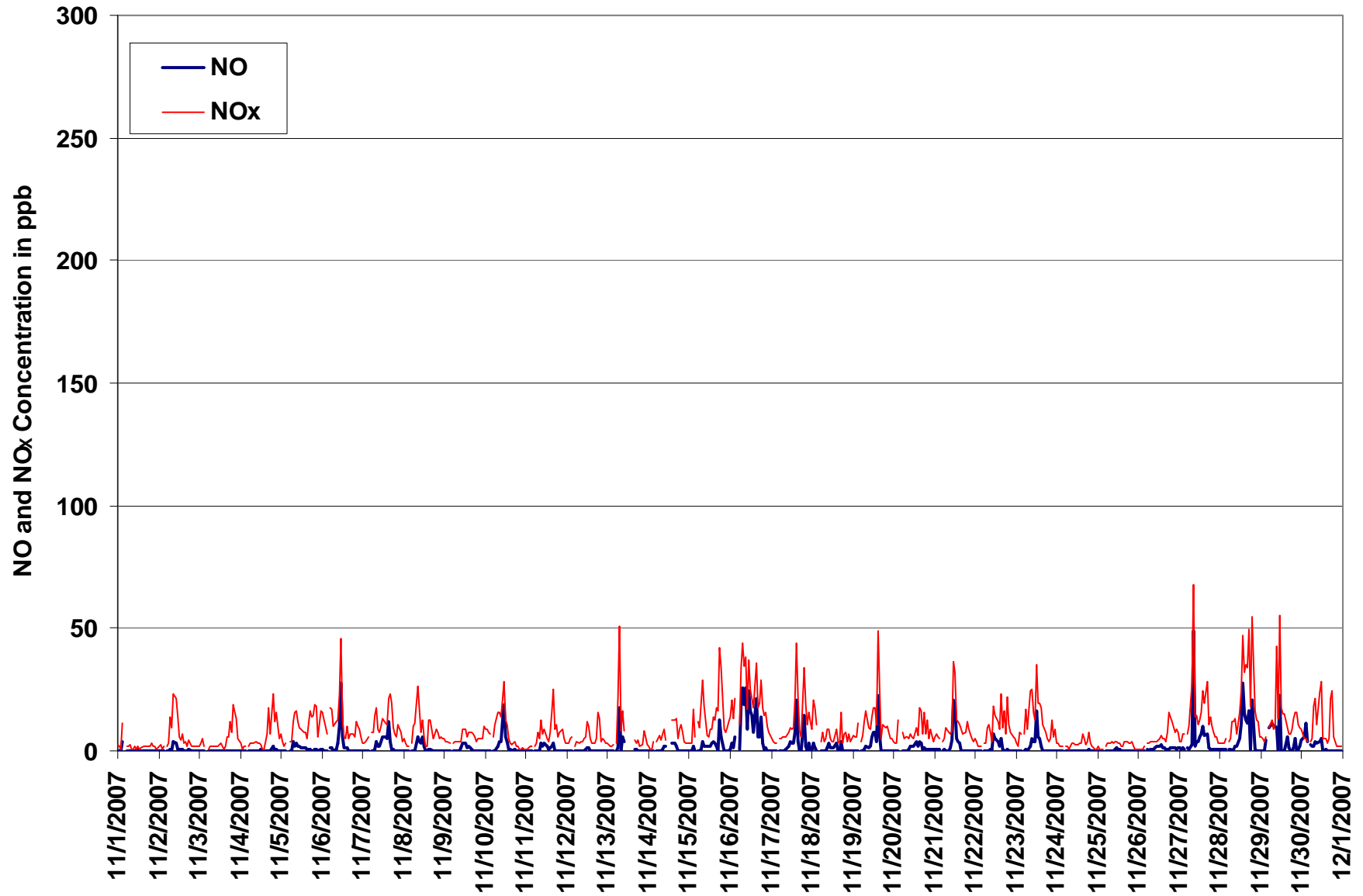


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

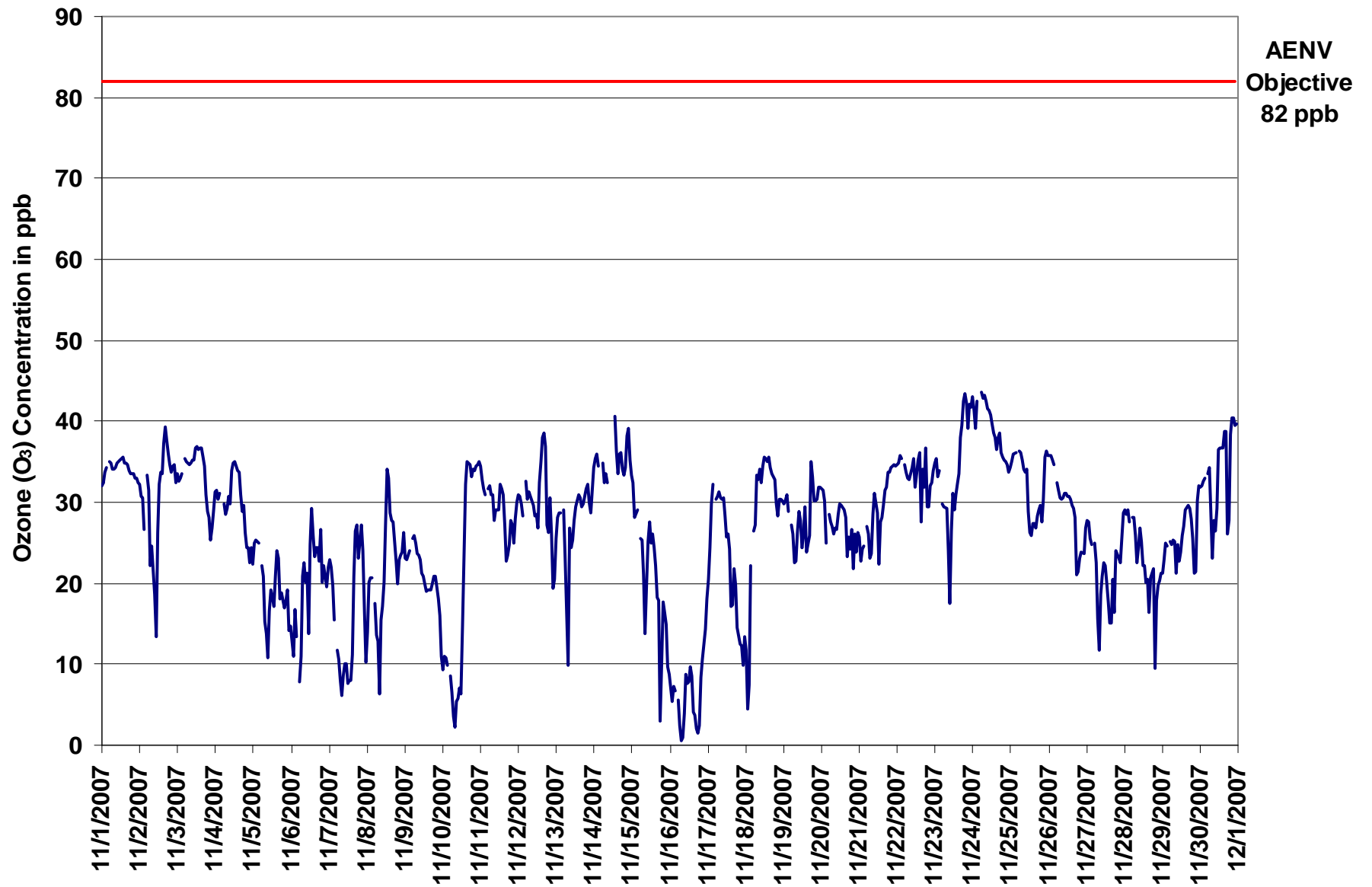


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

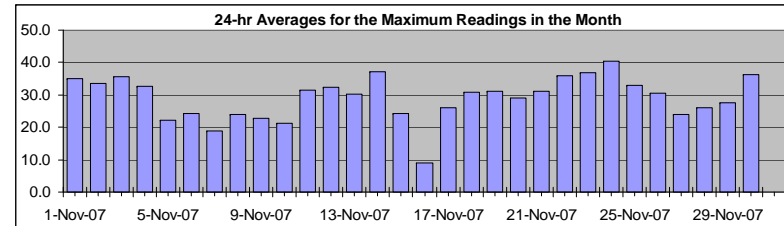
Ozone (O₃)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	45.2	ppb	24-Nov	3:00 4:00
Maximum 24-hr Value:	40.5	ppb	24-Nov	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.8	39.8	35.3	30.6	25.0	11.0	6.0	29.0 ppb	30.6 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	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
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-Nov-07	33	34	35	36	A	36	36	35	35	35	36	36	37	36	36	35	35	35	35	35	34	34	34	33	35.0	36.8	
2-Nov-07	33	32	32	32	A	34	34	28	29	24	17	32	35	35	38	39	41	39	37	36	35	36	36	34	33.6	41.0	
3-Nov-07	34	34	35	36	A	36	36	35	36	36	37	38	38	38	37	38	38	37	37	35	35	30	30	31	35.5	38.5	
4-Nov-07	33	32	32	32	A	30	30	31	32	32	35	36	36	35	35	36	33	34	33	34	32	33	26	26	32.5	36.4	
5-Nov-07	24	26	27	26	A	25	22	25	19	16	19	20	20	19	25	26	26	22	22	21	19	20	21	19	22.1	26.6	
6-Nov-07	19	17	21	17	A	11	21	25	24	24	25	21	28	32	29	27	27	27	28	31	31	27	22	24	24.2	31.7	
7-Nov-07	24	23	21	19	A	15	12	10	9	10	11	11	9	10	11	28	31	32	30	26	29	27	25	12	18.9	31.7	
8-Nov-07	15	22	22	22	A	18	18	15	10	18	19	27	35	36	34	32	30	29	27	21	25	24	27	28	24.1	35.8	
9-Nov-07	25	25	24	25	A	28	27	26	24	24	23	23	22	21	20	21	21	22	22	22	21	20	18	15	22.6	28.1	
10-Nov-07	11	13	13	11	A	9	8	6	4	6	7	8	8	27	36	36	35	35	34	35	34	35	35	35	21.1	36.4	
11-Nov-07	35	34	33	32	A	33	33	33	33	33	30	32	34	34	33	32	30	25	27	30	29	27	30	31	31.4	34.9	
12-Nov-07	32	32	32	32	A	34	33	32	31	31	29	30	29	34	39	40	40	39	37	30	33	31	21	23	32.4	40.1	
13-Nov-07	27	30	30	30	A	30	28	23	29	29	27	30	30	31	32	32	31	31	32	32	33	33	32	33	30.2	33.3	
14-Nov-07	36	36	36	36	A	36	35	35	35	C	C	C	A	43	40	37	38	38	36	36	37	40	41	37	37.2	42.6	
15-Nov-07	34	33	32	30	A	28	28	25	21	25	27	29	27	28	27	25	20	20	15	17	19	18	16	12	24.2	34.1	
16-Nov-07	10	8	8	8	A	7	4	1	2	7	10	10	9	11	11	6	6	4	3	8	14	16	18	22	8.9	21.8	
17-Nov-07	22	28	34	34	A	32	32	33	31	32	32	30	27	27	30	23	21	22	21	20	16	17	16	15	25.9	34.5	
18-Nov-07	13	8	15	28	A	27	33	35	35	35	34	35	37	37	37	36	36	35	34	33	30	32	33	33	30.8	37.0	
19-Nov-07	32	32	32	34	A	28	28	25	26	29	31	31	26	28	31	32	36	36	36	33	32	32	33	33	31.1	36.4	
20-Nov-07	32	33	31	29	A	30	29	28	27	28	28	30	31	31	31	31	29	28	26	28	25	27	27	27	29.1	32.5	
21-Nov-07	27	24	25	26	A	28	28	28	26	31	33	34	28	29	29	31	34	35	36	36	37	37	36	35	31.1	37.4	
22-Nov-07	37	36	36	36	A	35	35	35	36	36	36	35	36	37	37	31	37	36	39	39	34	34	34	35	35.8	38.9	
23-Nov-07	35	36	36	35	A	31	32	30	30	24	30	35	36	34	36	38	40	42	43	44	43	42	44	45	36.7	44.8	
24-Nov-07	45	42	42	45	A	44	44	44	44	43	43	42	41	40	39	38	39	40	38	37	37	36	36	35	40.5	45.2	
25-Nov-07	35	36	36	36	A	37	37	36	36	35	36	33	27	27	28	28	28	29	30	30	29	36	37	37	32.9	37.1	
26-Nov-07	37	37	36	35	A	34	32	31	31	31	32	31	31	31	31	30	30	29	26	23	25	25	30	30	30.6	36.6	
27-Nov-07	28	28	28	27	A	26	24	24	18	20	23	24	23	22	20	17	24	23	20	26	24	23	28	29	24.1	29.3	
28-Nov-07	29	29	30	30	A	29	29	28	25	30	30	27	26	26	26	24	23	27	26	14	20	22	23	22	25.9	29.8	
29-Nov-07	23	25	26	26	A	27	27	27	27	27	28	29	25	27	29	30	31	31	29	28	22	26	33	34	27.7	33.7	
30-Nov-07	33	33	33	33	A	34	35	34	30	30	32	36	38	38	38	40	41	35	35	41	41	41	40	40	36.2	41.0	
Hourly Avg	28.5	28.6	29.1	29.3	N	28.4	28.4	27.5	26.5	27.0	27.6	28.9	28.7	30.1	30.9	30.8	31.0	30.6	29.8	29.4	29.2	29.3	29.1	28.8			
Hourly Max	44.8	42.4	41.8	45.2	0.0	44.3	43.8	43.8	43.5	42.8	42.8	41.9	41.4	42.6	39.9	40.0	41.0	41.8	43.3	44.3	43.3	42.3	43.8	44.8			

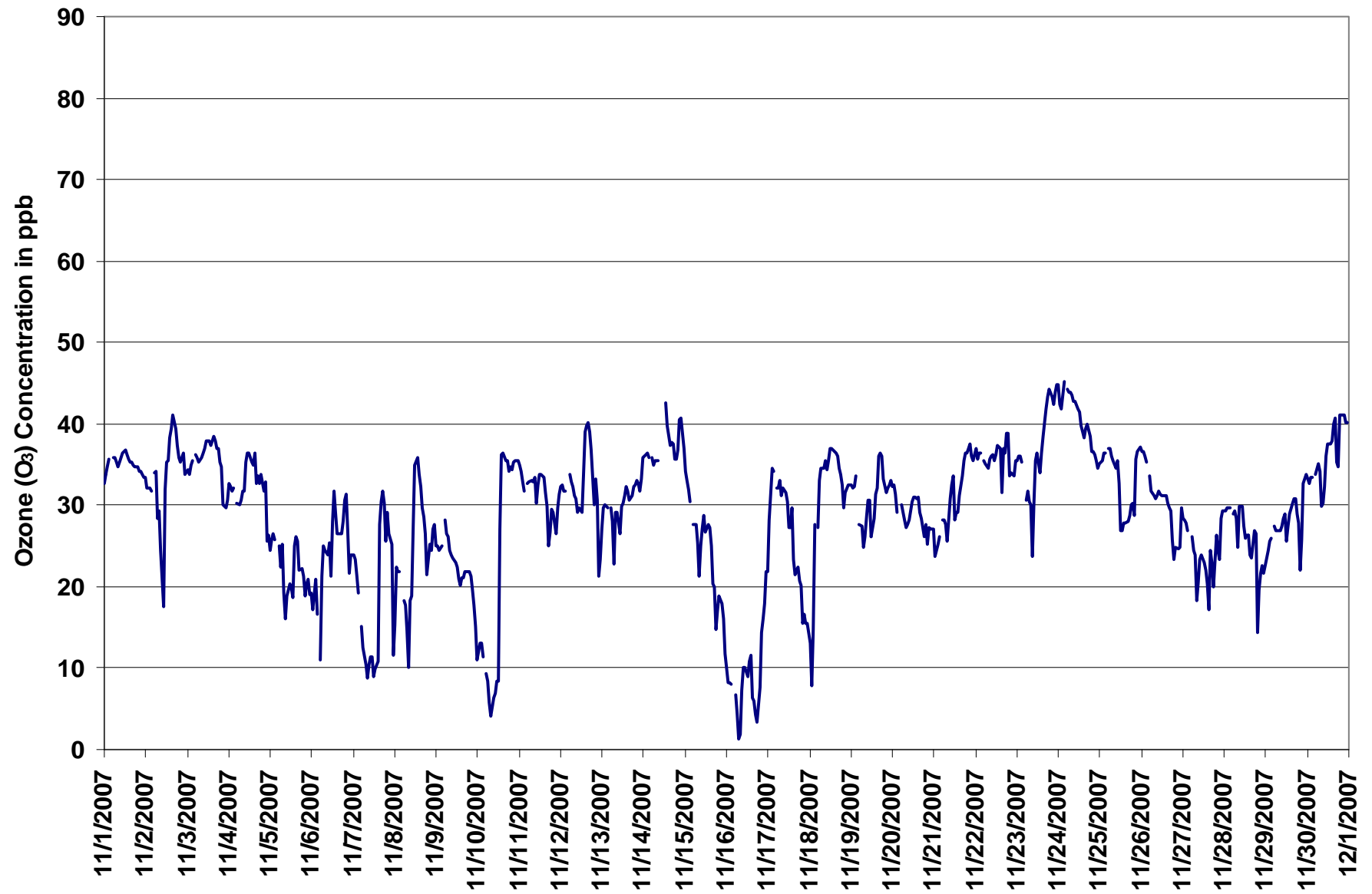
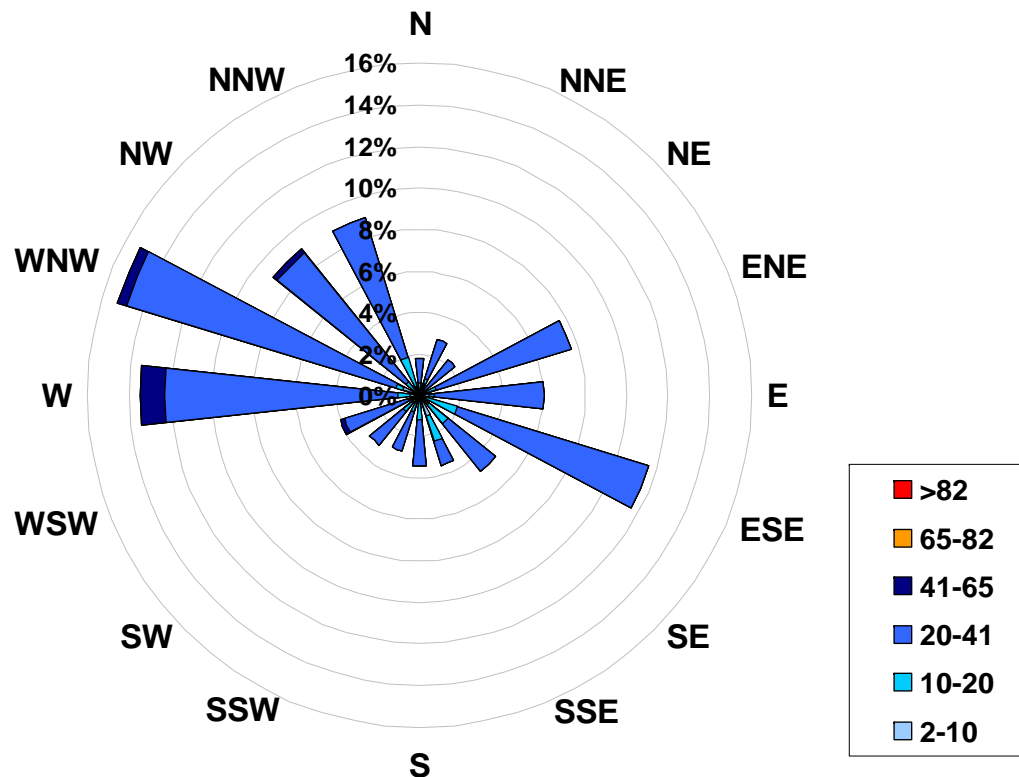


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for November 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	46	
10	to 20	80	
20	to 41	546	
41	to 65	14	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			686

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

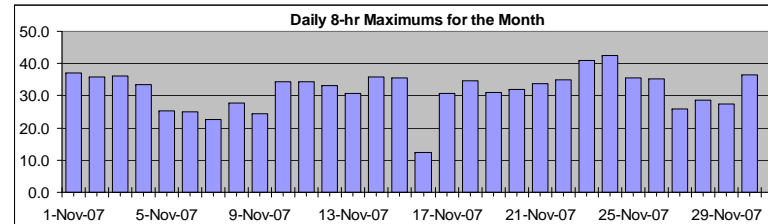
Ozone (O₃)

Monitoring Dates: November 1, 2007 to December 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	42.5 ppb 24-Nov 10:00 11:00

Percentile	99	95	75	50	25	5	1
	41.9	35.9	32.8	27.7	22.6	10.3	5.2



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

Day	Mountain Standard Time																							Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00		22:00 23:00	23:00 0:00
1-Nov-07	37	36	35	34	34	34	34	34	34	34	35	35	35	35	35	35	35	35	35	35	34	34	34	33	37.1	
2-Nov-07	33	33	32	32	31	31	31	30	29	27	24	24	25	25	26	27	29	32	35	36	36	36	36	35	36.0	
3-Nov-07	35	34	34	33	33	34	34	34	34	35	35	35	36	36	36	36	36	36	36	35	34	32	31	30	36.2	
4-Nov-07	29	29	29	29	29	30	30	30	30	30	31	32	32	33	33	33	33	33	33	32	30	29	28	26	33.4	
5-Nov-07	25	25	24	24	24	24	24	22	21	19	18	17	17	16	16	18	19	20	20	20	20	20	19	18	25.4	
6-Nov-07	17	16	16	15	15	14	13	14	15	16	17	17	18	20	22	23	23	23	24	25	25	24	23	23	25.1	
7-Nov-07	23	22	22	20	21	19	18	16	13	11	10	9	9	9	8	9	11	13	15	17	19	21	22	22	22.6	
8-Nov-07	21	20	20	19	18	17	17	17	16	15	15	15	16	18	21	23	25	27	28	28	27	26	25	24	27.6	
9-Nov-07	24	23	23	24	24	24	25	24	24	24	24	24	24	23	22	21	21	20	20	20	20	20	19	18	24.5	
10-Nov-07	17	16	15	13	12	11	10	9	8	7	6	6	6	6	10	14	18	21	25	28	32	34	34	34	34.4	
11-Nov-07	34	34	34	34	33	33	33	32	32	31	30	30	30	30	30	30	30	29	28	28	28	27	26	26	34.3	
12-Nov-07	27	28	29	29	29	30	30	31	31	30	30	30	30	30	30	31	32	33	33	33	33	32	30	28	33.1	
13-Nov-07	27	25	26	26	25	26	26	25	25	24	24	24	24	25	26	28	28	29	30	30	31	31	30	30	30.7	
14-Nov-07	31	32	32	33	33	34	34	34	34	N	N	N	N	N	N	N	N	N	N	N	36	36	35	36	36	35.8
15-Nov-07	35	35	34	34	34	32	30	28	25	23	23	23	23	23	23	23	24	23	21	18	17	16	15	13	35.5	
16-Nov-07	12	11	11	11	10	8	7	5	4	4	4	4	5	5	6	6	7	7	6	5	5	5	6	8	12.3	
17-Nov-07	10	13	16	20	21	24	27	28	30	31	31	30	30	29	28	27	25	24	23	21	19	17	16	15	30.9	
18-Nov-07	14	12	11	12	12	14	16	19	22	26	30	32	33	34	34	35	35	35	34	33	32	32	31	31	34.6	
19-Nov-07	31	30	30	30	30	30	29	28	27	26	26	26	26	26	26	26	27	28	28	29	29	30	30	31	31.1	
20-Nov-07	32	31	31	30	30	30	30	29	28	27	27	27	28	28	28	28	28	28	27	27	26	26	25	25	31.8	
21-Nov-07	25	25	25	24	25	25	25	25	24	25	26	27	26	26	27	27	28	29	29	30	31	32	33	34	33.6	
22-Nov-07	34	34	35	35	35	35	35	35	34	34	34	34	34	34	34	33	34	33	33	33	33	32	32	33	34.9	
23-Nov-07	33	33	33	33	34	33	33	32	31	28	27	27	27	27	28	28	30	33	35	36	38	39	40	41	41.0	
24-Nov-07	42	42	41	41	41	42	42	42	42	42	43	42	42	41	41	40	39	39	38	38	37	37	36	36	42.5	
25-Nov-07	35	35	35	35	35	35	35	36	36	35	35	34	33	32	31	30	29	28	27	28	28	28	29	30	35.6	
26-Nov-07	32	32	33	34	35	35	35	34	33	32	32	31	31	31	31	31	30	30	29	28	27	26	25	25	35.1	
27-Nov-07	25	24	25	25	26	26	26	24	22	21	20	20	20	19	19	19	19	19	19	19	19	19	20	22	25.9	
28-Nov-07	24	25	26	27	27	28	28	28	27	27	26	26	25	25	24	23	22	22	21	19	19	18	18	18	28.5	
29-Nov-07	19	19	20	22	22	23	24	24	25	24	24	24	24	24	24	24	25	26	27	27	27	26	27	27	27.3	
30-Nov-07	27	28	28	29	30	32	33	32	31	30	30	29	30	30	31	32	34	34	34	35	35	36	36	36	36.4	

Hourly Max	41.7	41.9	41.5	41.4	41.2	41.9	42.0	42.2	42.2	42.2	42.2	42.5	42.3	42.0	41.3	40.7	39.9	39.4	39.0	38.3	37.6	37.8	38.8	40.0	41.0
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PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

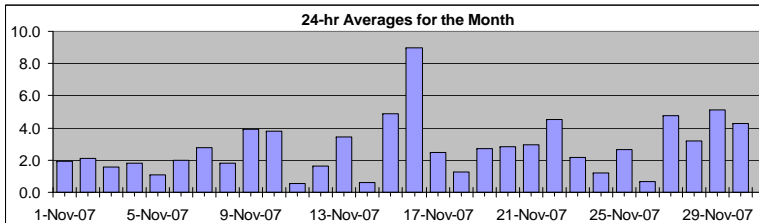
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	25.5 µg/m ³	30-Nov	1:00	2:00
Maximum 24-hr Value:	8.9 µg/m ³	16-Nov		

AIC Time:	0 hrs		Operational Time:	720 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	13.3	8.3	3.9	2.2	0.6	0.0	0.0	2.8 2 µg/m ³	2.3 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

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-Nov-07	4	2	0	3	1	1	1	1	2	1	1	1	1	0	2	3	6	6	5	2	2	2	1	2	1.9	6.3
2-Nov-07	3	4	3	2	1	1	3	4	4	4	3	0	0	0	1	1	0	0	1	3	3	2	3	3	2.1	4.4
3-Nov-07	2	3	2	1	0	1	0	1	1	1	1	0	0	0	0	2	1	3	3	3	3	4	3	3	1.6	3.5
4-Nov-07	2	2	2	1	2	1	2	3	2	3	2	2	1	1	0	0	1	2	3	2	3	3	2	1	1.8	3.0
5-Nov-07	2	0	0	0	0	0	0	0	0	2	1	1	0	1	1	0	0	0	9	2	2	1	2	2	1.1	9.5
6-Nov-07	2	2	2	1	1	1	3	3	2	2	3	3	1	1	2	1	2	2	2	1	2	3	4	4	2.0	3.7
7-Nov-07	3	3	4	3	3	3	3	4	4	3	5	4	4	3	3	2	0	1	0	0	1	1	5	5	2.8	5.0
8-Nov-07	6	2	2	2	2	2	2	1	3	3	3	1	0	0	1	0	1	4	3	1	1	1	0	1	1.8	5.8
9-Nov-07	0	1	1	2	2	4	6	5	5	3	2	3	7	1	2	6	7	7	7	7	5	3	4	3	3.9	7.2
10-Nov-07	5	5	6	5	5	5	5	4	5	7	5	7	11	10	3	0	0	1	1	0	0	0	1	1	3.8	10.9
11-Nov-07	1	1	0	0	0	0	0	0	1	2	1	0	0	0	0	1	3	1	0	0	0	0	0	1	0.5	2.9
12-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	1	2	5	5	5	5	3	3	1.6	5.4
13-Nov-07	2	3	4	3	4	3	2	3	3	4	1	4	5	2	2	0	2	2	3	2	1	16	11	0	3.4	15.5
14-Nov-07	2	0	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.6	4.4
15-Nov-07	3	2	5	4	3	4	3	3	4	2	3	4	5	4	5	4	5	7	11	13	5	3	7	7	4.9	12.6
16-Nov-07	7	9	8	9	8	8	8	10	10	11	8	10	9	9	9	8	7	6	11	13	11	10	8	6	8.9	13.4
17-Nov-07	4	0	0	1	0	0	0	0	0	0	0	0	0	3	15	9	7	2	1	0	4	5	4	5	2.5	15.4
18-Nov-07	4	5	5	3	2	3	1	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	0	1	1.2	5.5
19-Nov-07	0	1	0	0	0	1	2	3	5	5	0	1	2	1	1	4	4	6	5	5	5	4	5	4	2.7	5.6
20-Nov-07	4	4	5	5	2	3	5	5	3	3	1	2	2	0	1	2	1	2	3	4	5	3	2	2	2.8	5.0
21-Nov-07	2	2	2	2	1	2	2	3	2	2	3	3	3	2	4	3	3	3	4	4	3	5	7	6	3.0	7.0
22-Nov-07	3	5	3	2	3	2	1	3	2	3	2	4	4	2	4	4	4	4	10	13	8	13	5	4	4.5	13.5
23-Nov-07	1	1	1	1	0	0	0	0	2	0	0	1	3	3	3	5	7	3	4	3	4	4	4	3	2.2	7.1
24-Nov-07	1	0	0	0	4	1	2	2	0	0	0	1	2	2	1	2	1	0	1	1	2	1	2	2	1.2	3.7
25-Nov-07	2	1	1	1	0	1	1	1	1	1	2	1	3	5	3	5	8	9	7	4	3	1	2	1	2.6	9.1
26-Nov-07	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	2	2	2	0.6	2.5
27-Nov-07	5	4	4	3	3	3	4	4	5	6	6	6	5	5	6	6	6	7	4	4	6	5	3	3	4.8	7.1
28-Nov-07	3	3	2	2	1	2	1	2	3	3	2	1	2	3	4	4	3	3	3	5	4	7	7	7	3.2	7.0
29-Nov-07	6	5	7	7	9	7	7	10	12	10	8	8	5	3	2	5	2	1	2	1	1	1	5	5	5.1	12.3
30-Nov-07	23	25	18	8	4	3	1	1	4	4	3	2	1	0	0	0	0	2	2	0	0	0	0	0	4.3	25.5

Hourly Avg	3.4	3.2	3.0	2.5	2.2	2.1	2.1	2.5	2.8	2.8	2.2	2.3	2.6	2.3	2.5	2.7	2.8	2.8	3.9	3.4	3.0	3.5	3.3	2.9		
Hourly Max	23.0	25.5	17.7	8.9	8.6	8.4	8.4	10.2	12.3	11.2	8.3	10.5	10.9	10.3	15.4	8.8	7.9	9.1	11.0	13.5	10.6	15.5	10.6	7.2		

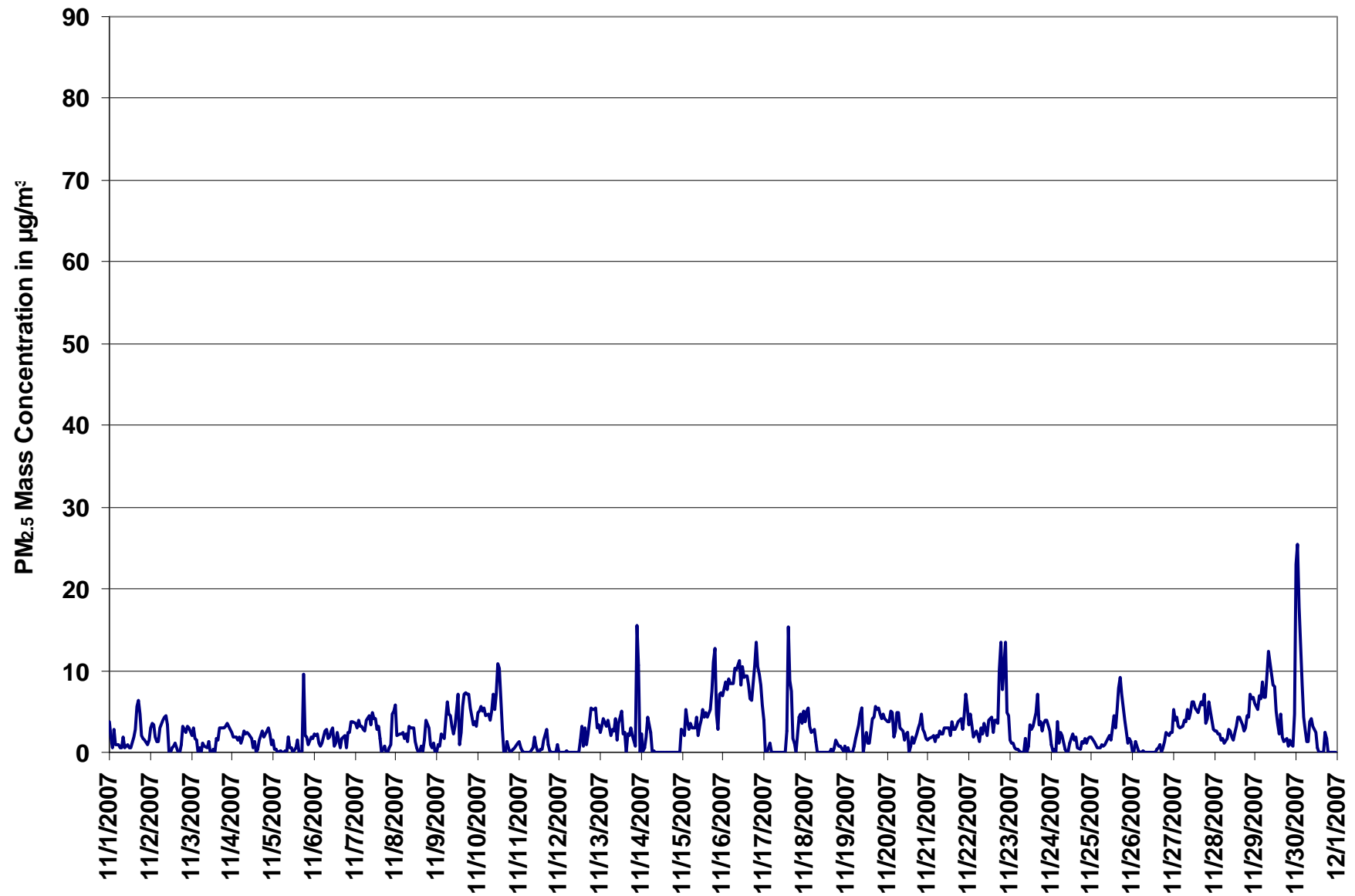


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

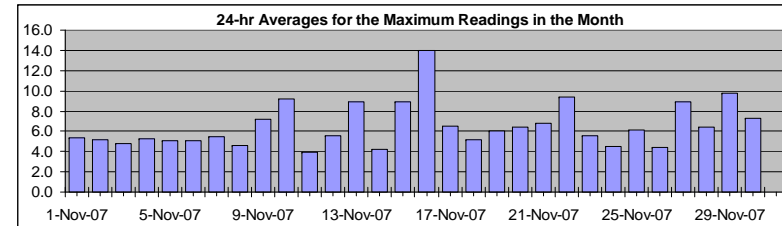
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	40.8	µg/m ³	5-Nov	18:00 19:00
Maximum 24-hr Value:	14.0	µg/m ³	16-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	22.4	14.1	7.9	5.8	4.1	2.3	0.8	6.5 6 µg/m ³	6.2 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-Nov-07	7	5	5	6	4	6	5	5	6	5	5	6	4	3	7	7	8	9	5	4	4	4	4	4	5.4	8.6
2-Nov-07	6	6	6	5	6	5	6	6	7	7	7	4	2	3	3	3	3	4	5	7	5	6	6	7	5.2	7.1
3-Nov-07	5	7	4	5	4	7	4	4	4	4	5	2	3	4	2	5	4	6	6	7	6	7	6	6	4.8	7.3
4-Nov-07	5	4	5	4	6	5	5	6	6	5	7	5	4	5	4	4	6	6	6	7	6	8	5	4	5.2	7.7
5-Nov-07	5	3	3	3	3	1	0	3	4	8	4	3	2	3	5	2	2	2	41	8	4	5	5	4	5.0	40.8
6-Nov-07	5	5	5	4	4	5	7	7	4	7	6	9	4	3	6	3	4	4	4	3	8	5	6	6	5.1	8.7
7-Nov-07	7	5	7	5	6	5	4	6	8	6	8	6	7	7	6	5	4	4	2	1	2	3	10	9	5.5	9.6
8-Nov-07	8	7	5	5	5	4	4	5	5	6	6	4	5	2	3	3	2	5	7	7	4	4	5	1	4.6	8.2
9-Nov-07	2	4	5	5	5	7	8	6	6	6	4	5	13	8	7	8	10	10	10	12	9	6	8	7	7.2	13.2
10-Nov-07	8	8	11	9	9	8	8	7	7	12	8	13	24	22	19	3	5	6	8	4	5	6	6	5	9.2	24.0
11-Nov-07	5	4	3	4	3	3	2	3	3	6	4	5	2	6	3	6	8	3	3	3	3	3	3	5	4.0	7.6
12-Nov-07	3	2	2	1	3	1	4	4	3	0	0	0	16	19	5	5	4	8	10	8	10	7	8	8	5.6	18.5
13-Nov-07	8	8	8	7	7	7	5	6	5	10	8	18	13	7	7	5	8	6	7	8	5	28	20	4	9.0	27.9
14-Nov-07	7	5	5	6	9	8	3	4	4	14	4	5	2	3	3	3	0	0	1	4	1	1	4	5	4.3	13.8
15-Nov-07	6	7	11	10	6	7	6	6	8	7	7	7	9	7	7	9	11	19	21	8	6	10	11	11	8.9	20.9
16-Nov-07	11	14	13	14	14	12	13	15	15	16	12	18	15	14	13	14	10	12	16	18	15	15	13	11	14.0	18.2
17-Nov-07	9	2	3	5	4	2	1	1	3	4	0	3	2	7	26	16	13	5	5	6	10	9	10	10	6.5	26.4
18-Nov-07	9	10	9	7	9	7	6	4	4	5	5	3	2	2	3	4	3	4	4	4	5	5	4	4	5.1	10.1
19-Nov-07	3	5	3	3	5	5	6	8	9	10	4	4	4	3	3	8	7	9	8	8	8	7	8	8	6.1	10.1
20-Nov-07	7	7	8	8	5	6	8	9	6	6	5	6	7	4	4	4	4	6	7	8	10	9	8	5	6.5	10.0
21-Nov-07	5	5	6	7	6	6	6	6	7	6	8	8	8	5	7	6	6	6	7	6	7	8	11	10	6.8	11.2
22-Nov-07	7	9	8	8	6	7	5	8	8	8	7	7	8	8	8	6	7	8	17	22	16	18	12	9	9.4	22.3
23-Nov-07	5	5	4	4	3	3	2	3	3	7	3	4	11	6	6	10	11	7	7	6	6	7	7	5	5.6	10.8
24-Nov-07	4	3	4	3	7	5	6	6	3	2	3	4	6	6	5	5	5	3	4	4	4	5	6	5	4.5	7.1
25-Nov-07	5	5	3	3	4	3	3	3	3	4	8	6	6	9	7	10	14	13	11	8	8	4	5	4	6.2	13.7
26-Nov-07	2	4	5	6	4	4	4	3	3	3	4	3	5	4	5	5	6	5	4	4	5	6	6	6	4.4	6.4
27-Nov-07	9	8	8	7	7	9	8	7	9	8	9	10	9	9	8	9	11	9	10	9	9	11	11	10	8.9	11.1
28-Nov-07	7	6	6	6	4	5	6	6	6	5	5	4	5	6	9	7	5	6	7	9	8	10	9	10	6.4	10.0
29-Nov-07	10	9	10	13	16	10	11	17	17	16	16	11	8	9	7	9	4	4	4	4	5	5	4	14	9.8	17.4
30-Nov-07	28	29	26	13	8	5	3	4	7	6	6	5	4	3	2	3	4	7	4	1	1	1	2	1	7.2	29.1
Hourly Avg	6.9	6.7	6.6	6.2	6.0	5.6	5.3	5.9	6.1	6.9	5.9	6.3	7.0	6.6	6.6	6.2	6.2	6.2	8.5	7.4	6.6	7.2	7.4	6.7		
Hourly Max	27.8	29.1	25.5	13.7	16.3	12.2	13.3	17.2	17.4	16.3	15.8	18.2	24.0	22.4	26.4	15.5	13.7	12.9	40.8	22.3	16.0	27.9	19.6	14.1		

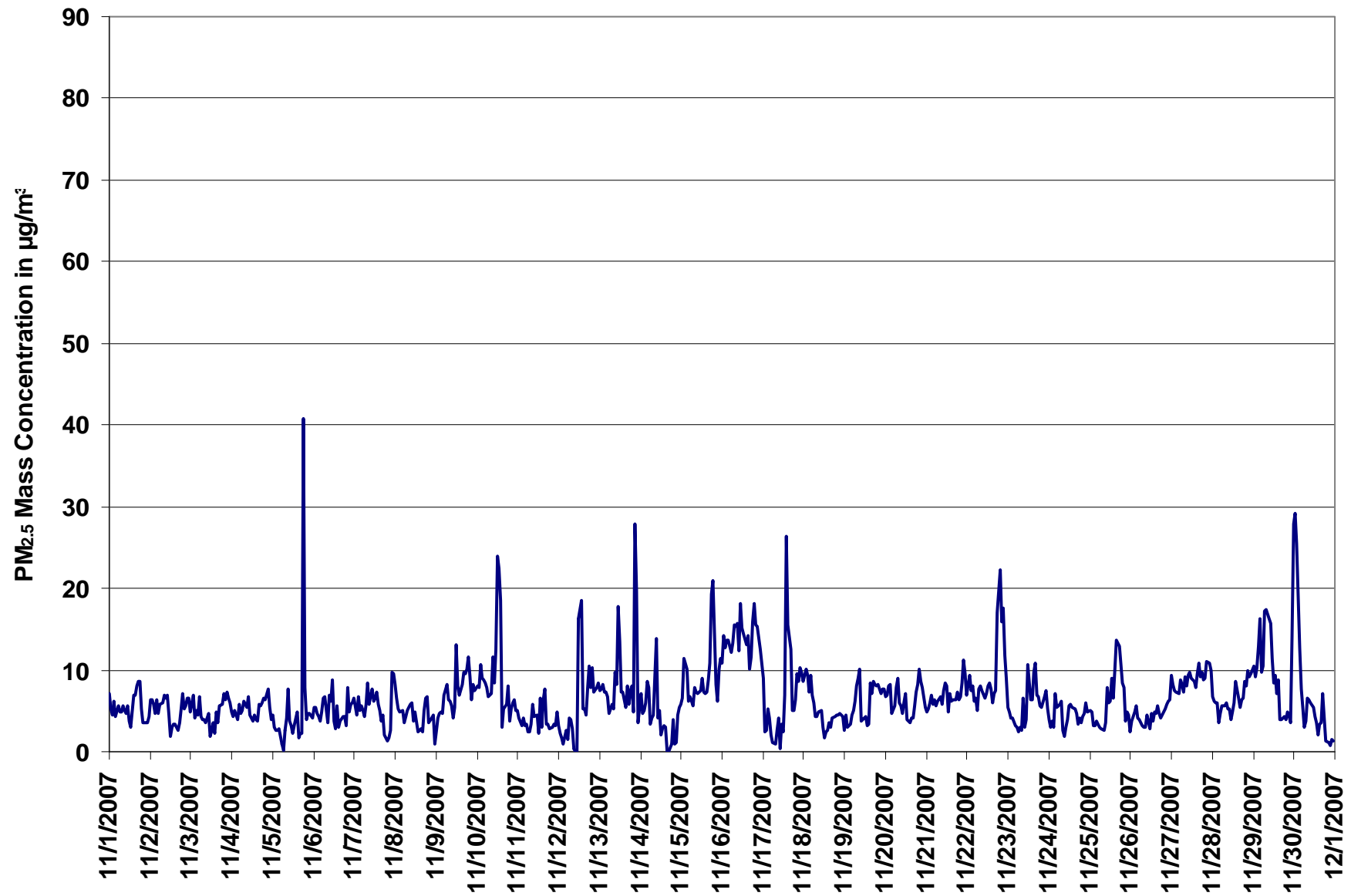
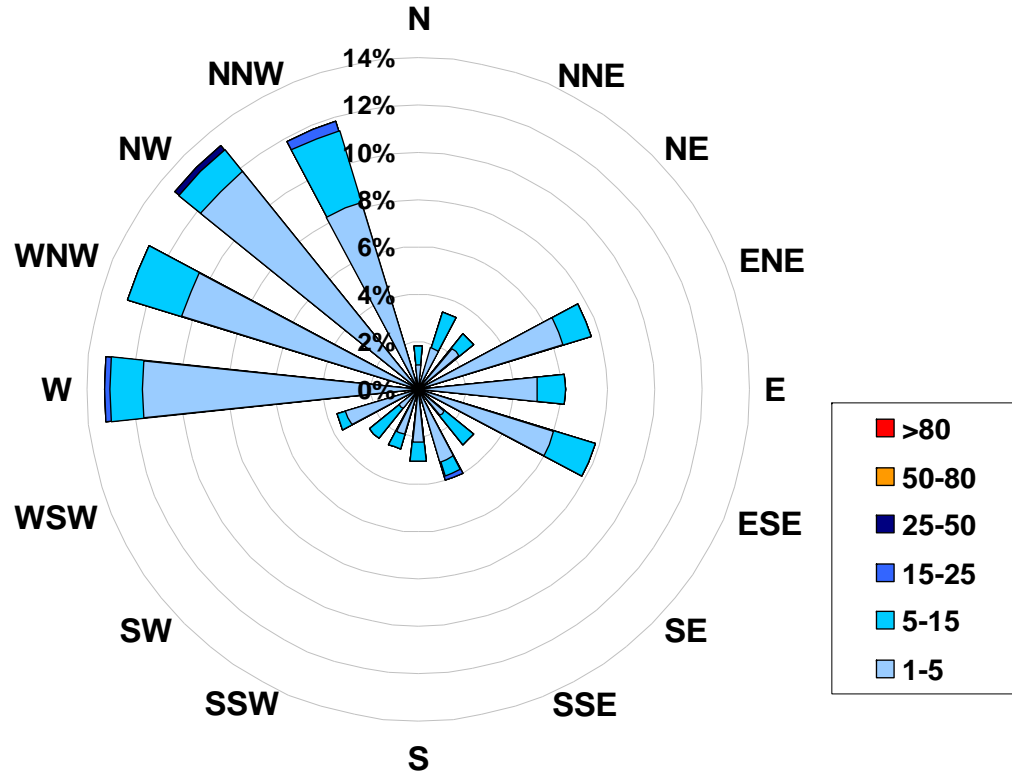


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for November 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	609
5	to	15	106
15	to	25	4
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			720

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

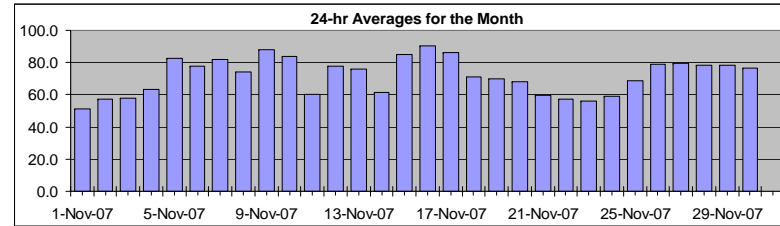
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	97.4	%	9-Nov	21:00 22:00
Maximum 24-hr Value:	90.1	%	16-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	97.0	94.4	83.0	72.8	60.3	47.0	40.0	71.8 %	72.8 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	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-Nov-07	72	70	63	59	59	57	55	56	55	49	43	38	34	33	36	37	41	48	50	52	54	57	58	59		51.5	72.0	
2-Nov-07	58	61	64	68	57	49	52	57	56	59	60	53	49	47	46	49	50	52	56	59	64	64	69	73		57.2	72.6	
3-Nov-07	66	66	61	59	50	51	53	56	55	52	50	47	47	47	48	49	54	63	65	69	67	69	74	75		58.0	75.4	
4-Nov-07	70	70	70	68	70	69	69	72	79	73	76	65	60	55	46	44	46	46	49	57	62	62	70	70		63.3	78.5	
5-Nov-07	72	74	78	77	76	77	78	79	79	79	75	74	74	76	86	89	87	88	91	94	95	95	94	94		82.5	94.9	
6-Nov-07	92	92	93	93	91	90	86	83	82	83	68	68	60	56	66	70	72	74	78	73	73	69	75	77		77.6	93.3	
7-Nov-07	79	82	84	88	89	91	92	93	93	93	92	83	84	79	75	73	64	64	68	75	73	75	81	90		81.6	93.1	
8-Nov-07	90	84	83	82	84	84	86	90	90	87	74	61	55	49	52	57	62	65	72	75	74	73	73	70		73.9	90.1	
9-Nov-07	75	74	75	75	72	84	92	93	94	94	88	82	84	88	90	91	92	93	94	96	97	97	97	97		88.1	97.4	
10-Nov-07	97	97	97	97	97	96	96	96	96	96	96	96	96	97	97	83	71	69	68	70	62	60	55	54	57		83.4	97.3
11-Nov-07	61	67	69	74	70	67	65	57	59	56	57	45	46	50	52	55	59	64	61	59	58	60	62	66		59.9	73.9	
12-Nov-07	71	73	71	65	67	75	72	83	85	78	72	66	65	60	59	73	83	85	88	92	96	97	96	92		77.6	96.7	
13-Nov-07	88	87	86	85	86	87	90	93	92	91	71	64	67	60	60	58	62	67	68	67	68	72	76	73		75.7	93.1	
14-Nov-07	67	64	64	68	69	67	70	68	66	67	62	57	53	52	56	57	59	60	61	59	57	55	51	59		61.2	70.0	
15-Nov-07	62	60	72	91	93	93	94	94	93	91	86	78	78	69	76	85	87	87	89	91	91	93	94	95		85.0	94.7	
16-Nov-07	94	94	95	97	96	95	95	95	95	93	79	81	80	71	81	88	89	90	94	93	92	91	91	91		90.1	96.6	
17-Nov-07	92	87	88	92	92	93	92	94	93	88	79	73	76	69	64	64	86	88	91	91	94	93	94	94		86.2	94.4	
18-Nov-07	95	96	95	95	90	87	82	72	71	67	60	52	51	49	47	53	59	63	67	69	70	70	72	78		71.2	95.6	
19-Nov-07	79	79	75	77	89	88	89	90	90	80	64	61	56	56	50	49	54	58	59	62	64	66	69	69		69.8	90.5	
20-Nov-07	70	71	73	76	75	74	74	74	74	72	68	59	52	47	43	46	58	67	70	72	79	75	81	79		67.9	81.1	
21-Nov-07	79	82	82	80	77	77	81	82	77	64	52	40	37	42	44	43	46	52	50	48	51	48	49	52		59.9	82.4	
22-Nov-07	53	58	60	64	65	65	69	62	58	54	47	42	42	42	41	49	52	56	59	63	66	70	69	70		57.3	70.3	
23-Nov-07	68	71	69	71	70	70	68	70	67	65	53	43	36	42	45	48	49	49	48	47	48	49	47	50		55.9	71.4	
24-Nov-07	51	50	55	49	56	63	63	66	67	62	60	58	56	57	58	57	58	58	62	63	63	62	60	62		59.1	67.5	
25-Nov-07	61	61	59	59	59	58	58	60	64	60	54	69	68	75	76	77	79	80	80	81	80	80	77	76		68.9	81.3	
26-Nov-07	78	76	75	74	74	78	79	80	79	79	79	78	77	77	78	77	78	81	83	84	84	84	84	84		79.1	84.5	
27-Nov-07	83	81	81	81	81	80	81	80	80	81	80	77	75	79	76	79	82	82	82	80	79	79	77	77		79.7	82.9	
28-Nov-07	81	80	81	80	80	81	78	78	79	76	74	67	66	68	59	72	83	84	83	87	87	86	86	85		78.2	86.9	
29-Nov-07	84	84	83	83	83	83	84	83	84	81	66	61	65	66	69	70	77	81	84	85	86	84	80	79		78.5	86.3	
30-Nov-07	75	73	70	75	78	80	80	82	86	82	79	76	73	74	77	78	75	81	82	71	68	71	77	74		76.4	85.8	
Hourly Avg	75.4	75.5	75.7	76.7	76.5	77.0	77.4	78.0	77.9	75.1	68.8	63.8	62.0	61.0	61.3	63.6	67.1	69.8	71.8	72.5	73.4	73.4	74.6	75.5				
Hourly Max	97.3	97.1	97.0	96.8	96.6	96.4	96.2	96.4	96.4	96.3	96.4	96.4	96.8	97.2	90.2	91.5	91.9	93.0	93.9	95.7	97.1	97.4	97.4	97.3				

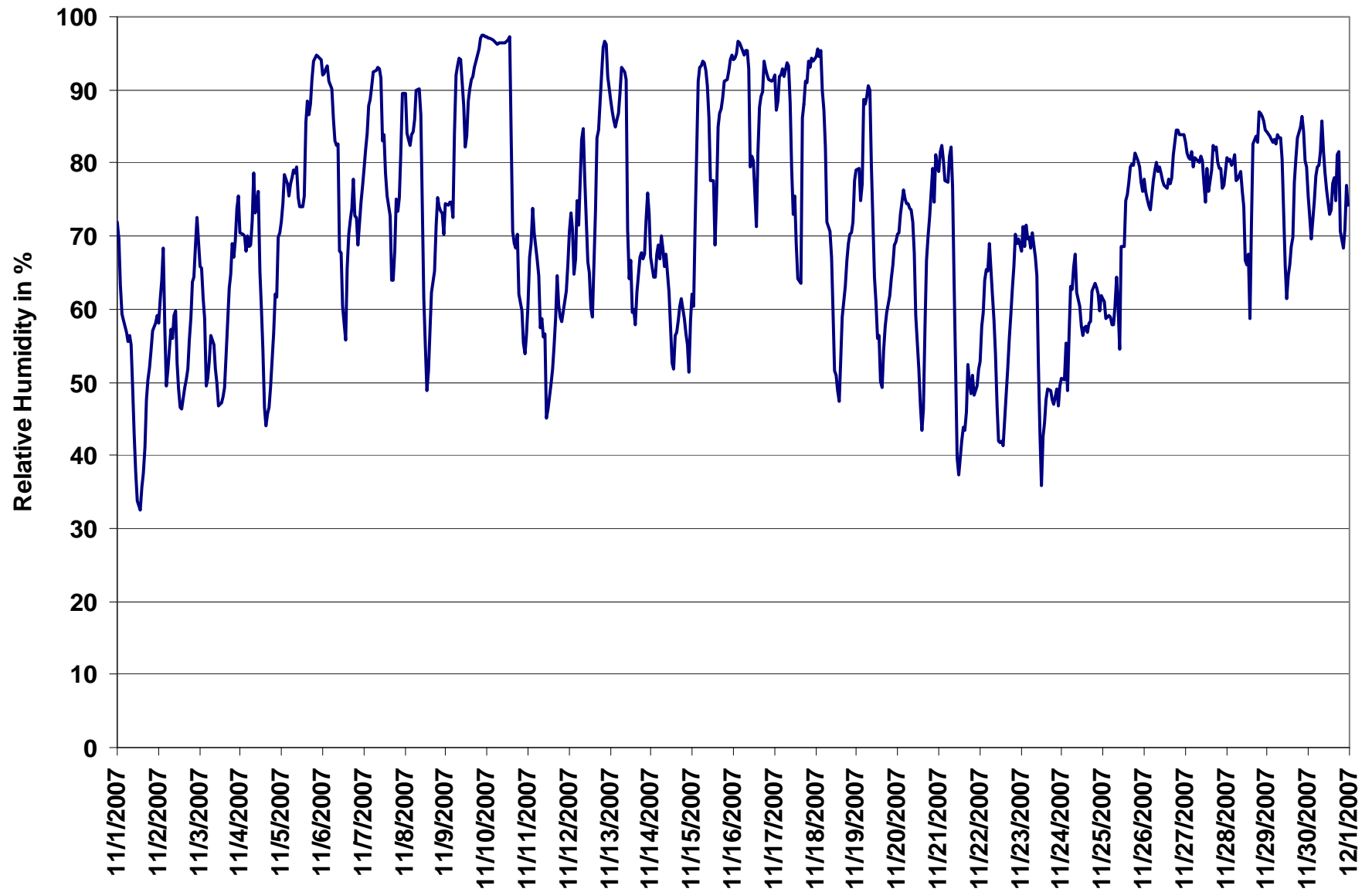


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

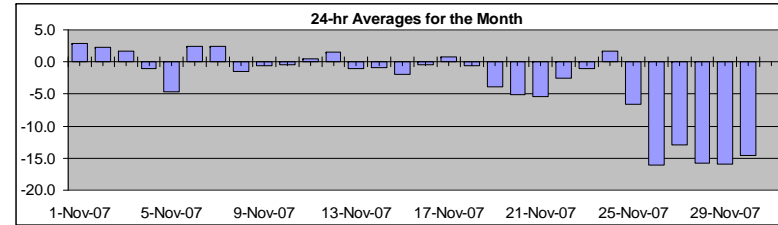
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	9.1	°C	6-Nov	13:00 14:00
Maximum 24-hr Value:	2.8	°C	1-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.5	4.1	1.2	-1.4	-5.3	-16.3	-18.8	-3.2 °C	-1.4 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Nov-07	1	2	2	2	2	2	2	1	2	3	4	6	7	7	7	6	5	3	2	2	1	1	0	0	2.8	7.1	
2-Nov-07	0	-1	-1	-2	1	2	2	1	1	1	1	2	4	4	5	5	6	5	4	4	3	4	3	2	2.3	5.6	
3-Nov-07	2	1	2	2	3	2	2	1	1	2	3	3	3	4	4	3	2	1	1	0	0	-1	-1	1.7	3.7		
4-Nov-07	0	-1	-1	-1	-2	-2	-2	-2	-2	-1	-1	1	2	3	4	2	1	0	-1	-3	-4	-4	-6	-6	-1.1	4.1	
5-Nov-07	-6	-6	-6	-6	-6	-7	-7	-7	-6	-5	-5	-4	-4	-4	-4	-4	-3	-3	-3	-3	-3	-4	-3	-3	-4.7	-2.9	
6-Nov-07	-2	-3	-3	-3	-3	-3	-1	1	2	1	5	6	8	9	7	6	5	4	3	4	3	4	3	2	2.4	9.1	
7-Nov-07	2	1	1	0	0	0	0	0	0	-1	0	2	2	4	6	6	7	7	6	4	4	4	3	0	2.4	7.4	
8-Nov-07	-1	-3	-4	-4	-4	-3	-4	-5	-5	-4	-1	2	3	3	2	2	0	-1	-2	-2	-2	-1	-1	0	-1.5	2.5	
9-Nov-07	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	0	1	1	0	0	0	0	0	-1	-1	-1	-2	-1	-2	-0.6	1.1	
10-Nov-07	-2	-2	-2	-2	-3	-3	-3	-3	-3	-3	-2	-1	-1	0	2	3	3	3	2	2	1	2	2	2	-0.4	3.2	
11-Nov-07	1	-1	-2	-3	-3	-2	-2	-1	-1	0	0	5	4	4	3	3	2	1	1	1	0	0	0	0	0.5	4.9	
12-Nov-07	0	0	1	1	2	2	2	1	1	1	1	2	2	4	4	3	2	2	2	1	1	0	0	-1	1.5	4.0	
13-Nov-07	-1	-2	-2	-2	-3	-3	-4	-5	-5	-5	0	3	2	4	3	3	2	0	0	0	-1	-2	-3	-2	-1.0	3.7	
14-Nov-07	-1	0	-1	-2	-3	-3	-3	-3	-2	-3	-1	1	2	3	2	1	0	-1	-1	-1	-1	-1	0	-1	-0.9	2.7	
15-Nov-07	-2	-1	-2	-4	-4	-4	-4	-4	-4	-3	-2	-1	0	2	0	-2	-2	-2	-2	-2	-1	-2	-2	-2	-2.0	1.7	
16-Nov-07	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	3	1	0	0	0	0	0	1	0	0	0	-0.5	3.0	
17-Nov-07	1	1	1	0	0	0	-1	-1	-2	-1	1	3	3	5	6	6	1	0	0	-1	-1	-1	-2	-1	0.8	6.0	
18-Nov-07	-1	-2	-1	0	0	-1	-2	-1	-1	-1	0	3	3	4	4	2	0	-1	-2	-3	-3	-3	-3	-5	-0.6	3.9	
19-Nov-07	-5	-5	-4	-5	-8	-8	-8	-8	-8	-6	-2	-2	0	0	1	1	-1	-2	-2	-3	-4	-4	-5	-5	-3.9	1.3	
20-Nov-07	-5	-5	-5	-6	-6	-6	-6	-6	-6	-6	-5	-3	-2	0	1	0	-3	-6	-7	-7	-8	-8	-9	-9	-5.0	1.2	
21-Nov-07	-9	-10	-10	-10	-10	-10	-11	-11	-11	-8	-5	-1	2	0	0	1	0	-2	-3	-3	-4	-3	-3	-3	-5.3	1.5	
22-Nov-07	-3	-5	-5	-6	-6	-6	-7	-5	-4	-3	0	1	2	3	3	2	0	-1	-2	-3	-4	-5	-5	-5	-2.6	3.4	
23-Nov-07	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	0	5	4	4	4	3	2	1	1	2	2	2	1	-1.0	4.8	
24-Nov-07	1	2	1	3	4	3	3	3	3	3	3	3	3	3	3	3	2	1	-1	-1	-1	-1	0	-1	1.7	4.0	
25-Nov-07	-1	-2	-1	-1	-1	-1	-1	-1	-3	-2	0	-4	-5	-7	-9	-10	-12	-13	-13	-14	-14	-15	-16	-16	-6.6	-0.1	
26-Nov-07	-17	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-17	-16	-15	-15	-15	-14	-14	-14	-14	-14	-14	-14	-14	-16.0	-13.4	
27-Nov-07	-14	-14	-14	-14	-15	-15	-16	-16	-16	-15	-15	-13	-12	-10	-10	-9	-10	-10	-10	-10	-12	-13	-13	-14	-12.8	-9.2	
28-Nov-07	-15	-15	-16	-16	-16	-16	-17	-17	-16	-16	-15	-14	-13	-13	-11	-14	-16	-16	-15	-17	-17	-19	-19	-20	-15.8	-11.3	
29-Nov-07	-19	-18	-18	-19	-19	-19	-19	-19	-19	-19	-18	-13	-13	-15	-14	-14	-12	-13	-14	-14	-15	-15	-15	-16	-16.0	-12.3	
30-Nov-07	-15	-16	-15	-15	-16	-16	-15	-16	-18	-17	-15	-12	-11	-11	-12	-13	-13	-15	-15	-14	-14	-15	-15	-16	-14.6	-10.8	
Hourly Avg	-4.0	-4.3	-4.4	-4.7	-4.7	-4.7	-4.9	-5.0	-4.9	-4.3	-2.7	-1.3	-0.6	-0.2	0.0	-0.5	-1.5	-2.4	-2.9	-3.3	-3.6	-3.8	-4.1	-4.5			
Hourly Max	2.1	2.1	1.9	3.4	4.0	3.2	3.1	2.9	2.6	3.0	5.4	5.9	8.1	9.1	7.3	6.5	7.4	6.6	5.5	4.1	4.3	4.1	3.2	2.4			

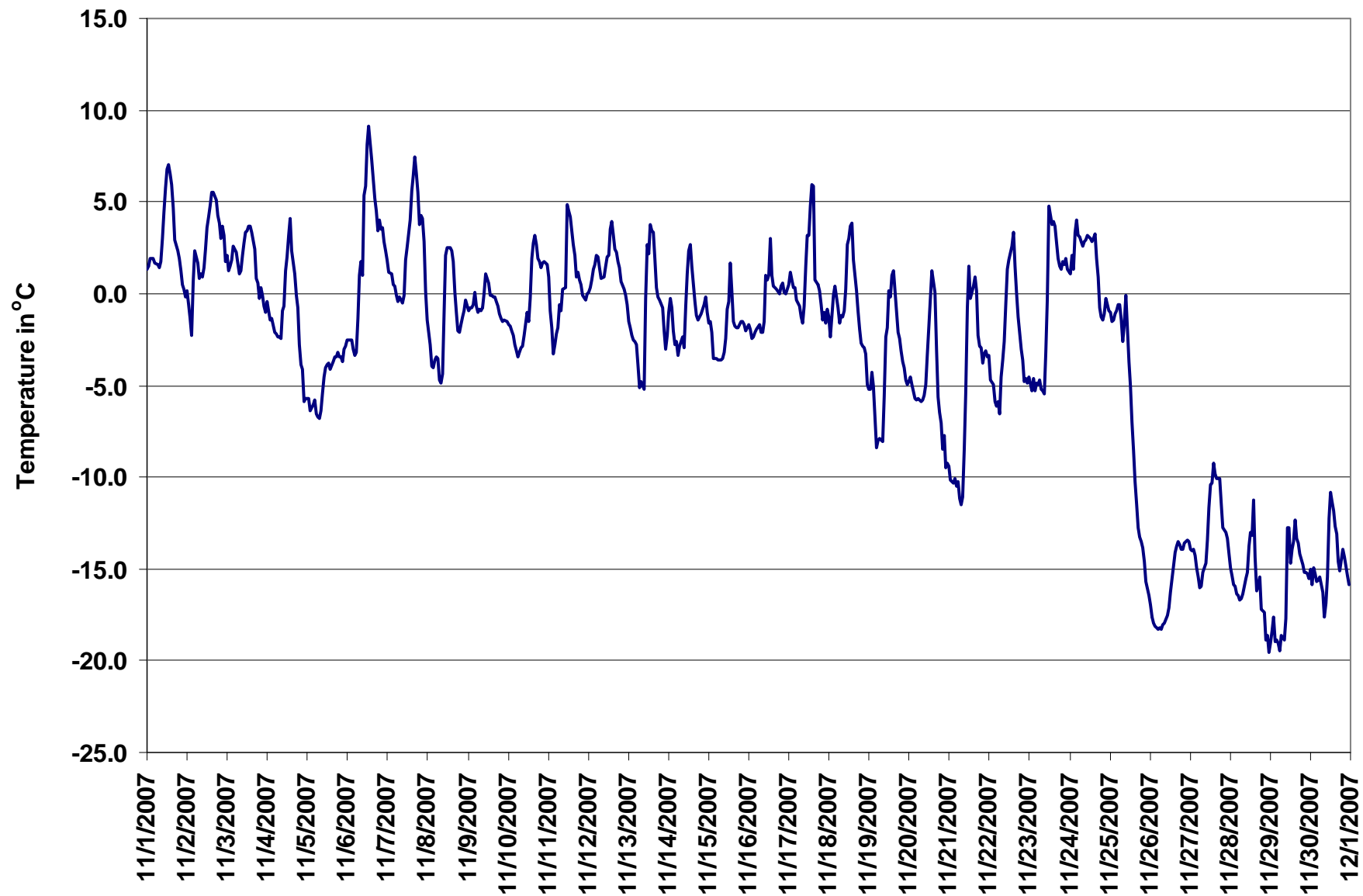


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Table with 2 rows and 4 columns: Maximum 1-hr Average, Maximum 24-hr Value, and their corresponding values and dates.

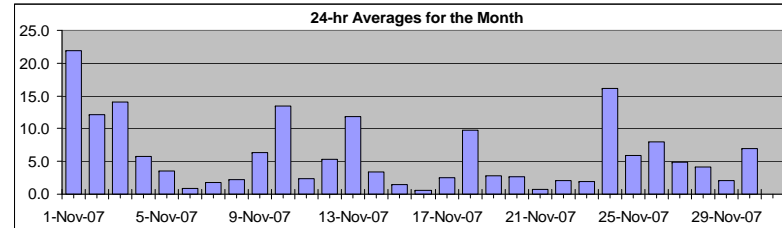


Table with 2 rows: Calm Time (0 hrs, 0% calms), Operational Time (720 hrs), Calibration Time (0 hrs), AMD Operational Uptime (100.0%), Percentile (99, 95, 75, 50, 25, 5, 1), Average V (10.5 km/hr).

Status Flag Characters

Table with 2 columns of 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

Main hourly data table with columns for Day, Hour Start/End, Hourly Wind Speed, 24-hr Vector Average, and Daily Max.

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	84.8	64.7	29.7	12.4	6.0	3.4	2.6

Status Flag Characters

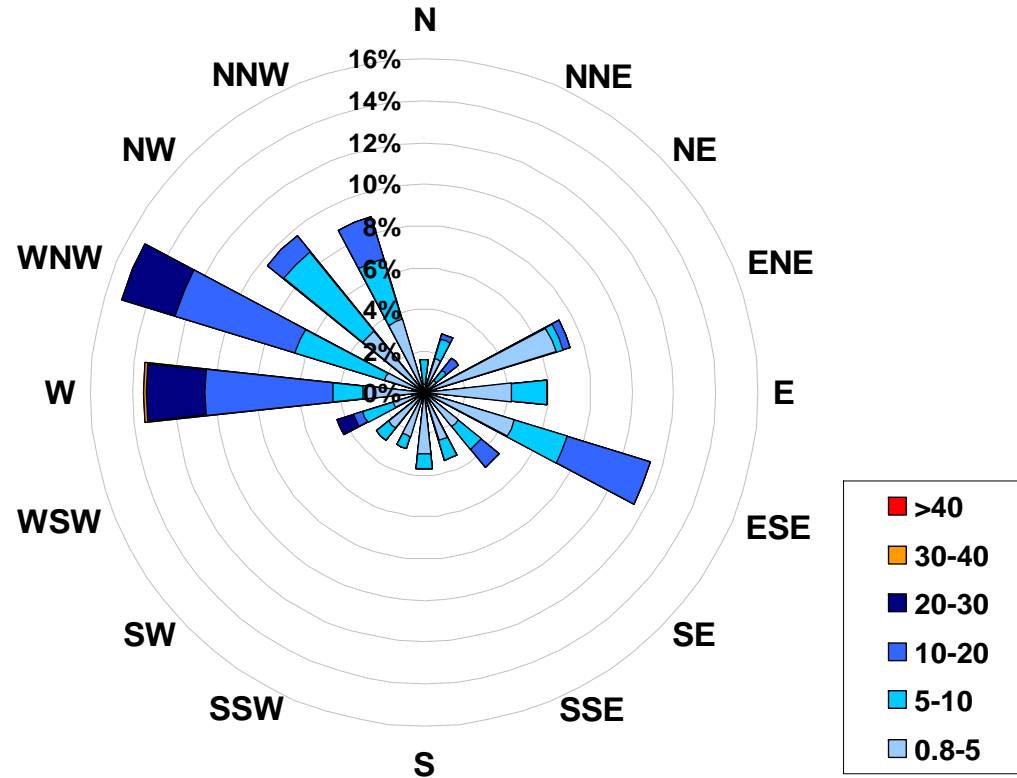
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start 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	Daily Maximum
1-Nov-07	8	5	8	7	4	4	3	3	4	4	3	4	5	5	5	4	3	3	5	3	4	9	3	8.9	
2-Nov-07	3	6	5	35	20	6	8	14	30	49	34	40	14	12	26	13	7	7	6	6	5	8	4	3	49.3
3-Nov-07	4	35	10	9	3	5	4	6	3	5	7	6	6	10	4	5	6	5	21	69	23	17	7	10	69.2
4-Nov-07	4	3	4	5	4	4	8	5	5	10	11	18	16	12	14	7	13	20	40	75	74	85	32	60	84.8
5-Nov-07	33	21	58	45	36	13	11	84	37	14	8	10	20	13	16	8	9	6	8	15	29	56	84	43	83.8
6-Nov-07	28	59	28	9	29	31	64	21	28	58	48	18	23	16	66	44	19	20	17	9	85	26	13	12	84.7
7-Nov-07	9	5	16	62	35	19	37	13	30	33	13	30	24	65	64	88	14	8	8	68	7	8	14	5	87.9
8-Nov-07	9	6	6	8	12	19	17	30	59	8	41	42	29	20	27	10	5	6	7	4	6	6	5	6	59.2
9-Nov-07	5	6	4	5	5	6	6	3	7	7	21	88	23	16	15	16	14	33	37	42	26	23	14	25	87.8
10-Nov-07	9	21	17	24	76	17	29	27	73	29	75	71	17	31	5	4	3	3	3	2	4	3	3	4	76.4
11-Nov-07	3	17	11	52	53	18	52	14	71	41	27	27	9	30	32	33	33	11	18	34	35	11	16	34	71.3
12-Nov-07	11	16	8	10	5	11	4	7	6	9	5	2	9	4	9	14	14	4	35	14	15	12	4	4	35.0
13-Nov-07	4	4	3	5	7	7	12	12	18	59	88	6	4	3	3	4	3	2	7	4	4	24	59	4	87.9
14-Nov-07	5	4	2	6	4	4	3	5	12	14	6	6	8	25	15	37	12	7	4	4	3	3	7	8	36.7
15-Nov-07	9	12	42	17	8	14	11	14	19	19	10	55	45	52	17	9	8	15	18	12	7	22	48	51	55.0
16-Nov-07	65	58	67	17	45	63	63	23	55	56	52	77	88	53	55	62	55	44	38	68	40	39	29	32	87.8
17-Nov-07	43	16	9	40	12	29	13	10	12	12	9	13	9	7	45	62	29	12	15	55	45	35	41	29	61.6
18-Nov-07	53	56	38	4	7	4	6	8	13	10	6	7	4	7	9	5	3	2	3	4	7	7	14	52	55.8
19-Nov-07	38	58	4	42	52	15	14	9	58	11	44	43	10	18	13	73	5	2	20	6	4	8	15	6	72.9
20-Nov-07	16	7	8	7	10	8	7	6	6	13	11	6	6	15	44	15	11	10	22	27	52	14	31	31	51.8
21-Nov-07	32	26	12	44	77	12	43	26	28	15	17	39	22	7	6	20	19	59	8	9	46	9	7	6	77.2
22-Nov-07	24	20	62	52	64	59	58	22	13	10	9	15	10	14	11	32	22	35	49	72	28	89	66	69	88.6
23-Nov-07	85	81	82	32	18	12	70	57	60	66	8	41	14	9	7	12	9	11	23	11	5	10	5	26	85.1
24-Nov-07	21	13	56	20	6	4	4	6	5	5	6	5	6	3	9	5	5	7	3	10	7	4	3		55.7
25-Nov-07	3	3	3	3	3	3	3	4	4	4	44	7	5	5	6	9	7	4	9	11	13	14	20	15	43.6
26-Nov-07	6	6	5	10	5	4	5	5	5	5	5	4	5	5	9	18	18	35	38	7	5	12	16	23	38.4
27-Nov-07	6	15	16	6	4	8	18	13	41	18	20	12	25	42	41	42	54	31	16	7	10	7	7	7	54.4
28-Nov-07	7	8	8	7	6	8	17	20	45	51	23	51	43	64	79	46	52	29	15	16	7	40	16	36	78.9
29-Nov-07	23	13	7	32	25	39	37	25	13	86	33	40	17	10	9	7	7	38	62	22	13	24	77	45	85.6
30-Nov-07	18	11	6	4	5	5	7	32	21	25	22	35	9	10	13	10	25	5	11	17	12	8	9	12	34.9

Hourly Max	85	81	82	62	77	63	70	84	73	86	88	88	88	88	65	79	88	55	59	62	75	85	89	84	69
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	320
5	to	10	195
10	to	20	159
20	to	30	45
30	to	40	1
	>	40	0
Total Non-Zero Values			720

PASZA – Portable-Spirit River Station

Monthly Summary Tables, Graphs and
Roses

PASZA - Portable-Spirit River Sulphur Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

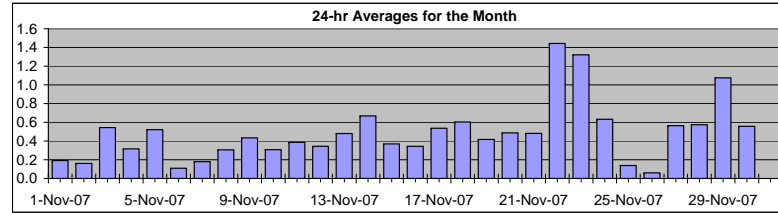
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	5.2 ppb	3-Nov	6:00 7:00	
Maximum 24-hr Average:	1.4 ppb	22-Nov		



AIC Time:	31 hrs		Operational Time:	684 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.4	0.6	0.4	0.2	0.0	0.0	0.5 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0.2	0.5
2-Nov-07	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
3-Nov-07	0	0	0	0	1	1	5	0	0	1	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.5	5.2	
4-Nov-07	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	0.7	
5-Nov-07	1	1	0	0	0	0	0	0	A	0	1	1	1	1	1	0	1	2	1	0	0	0	1	0	0.5	1.6		
6-Nov-07	0	0	0	0	0	0	0	A	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0.1	0.3		
7-Nov-07	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	0.4		
8-Nov-07	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7		
9-Nov-07	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.4	1.2		
10-Nov-07	0	0	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5		
11-Nov-07	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	1	1	1	0.4	1.1		
12-Nov-07	A	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.1		
13-Nov-07	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	A	1	0.5	1.1		
14-Nov-07	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	2	1	1	A	1	1	0.7	2.0		
15-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0.4	0.5		
16-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	0	0.3	0.9		
17-Nov-07	1	0	1	0	0	1	0	1	1	2	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0.5	1.7		
18-Nov-07	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	A	1	1	1	1	1	1	0.6	1.2		
19-Nov-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0	0	0	0.4	0.5		
20-Nov-07	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	A	0	0	1	1	0	0	0	0	0.5	1.4		
21-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0.5	1.2		
22-Nov-07	1	1	2	1	1	1	2	2	2	2	2	2	1	A	1	1	1	2	2	2	2	2	1	1	1	1.4	2.3	
23-Nov-07	1	2	2	1	1	1	1	1	1	1	0	1	A	1	1	1	2	2	2	2	2	2	1	1	1.3	2.3		
24-Nov-07	1	1	1	1	1	1	1	0	0	1	1	A	0	1	1	1	0	0	0	0	0	0	0	0	0.6	1.4		
25-Nov-07	0	0	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5		
26-Nov-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
27-Nov-07	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	1.4		
28-Nov-07	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	2	2	0.6	2.2		
29-Nov-07	2	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	1.9		
30-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.6	0.9		
Hourly Avg	0.5	0.5	0.5	0.4	0.5	0.6	0.6	0.4	0.4	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Hourly Max	1.9	1.7	1.8	1.4	1.4	1.3	5.2	1.8	2.2	2.2	2.3	1.6	1.2	1.2	1.2	1.1	1.6	1.9	2.3	2.0	1.8	1.8	2.2	1.9	1.9	1.9		

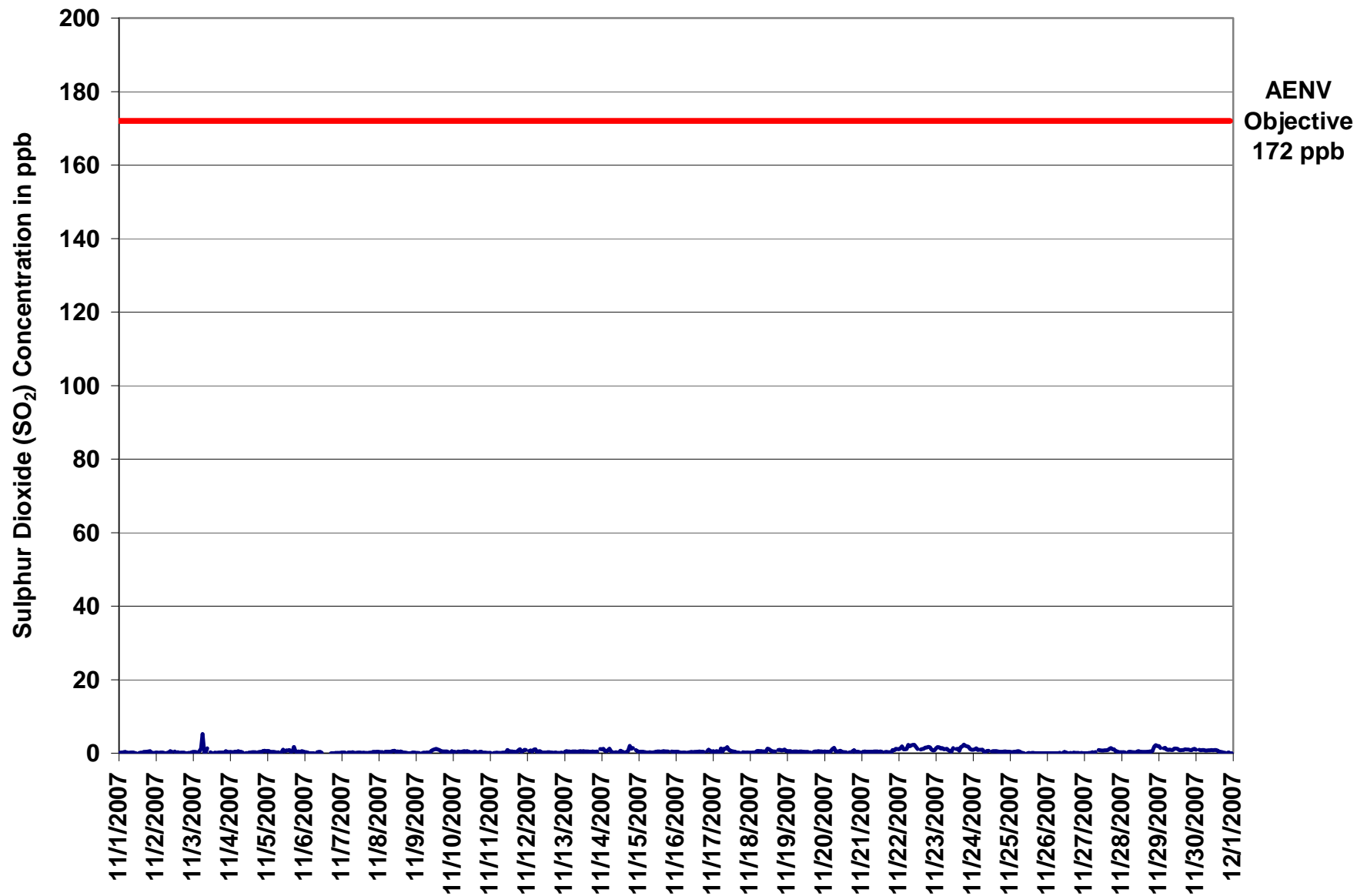


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

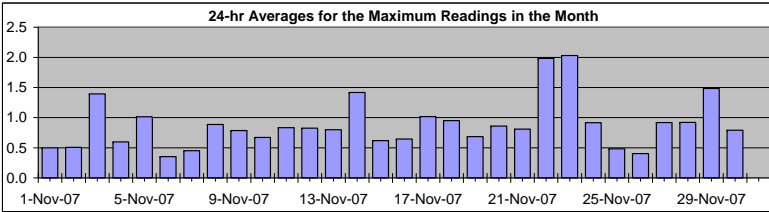
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value: 12.4 ppb 3-Nov 6:00 7:00
Maximum 24-hr Value: 2.0 ppb 23-Nov

AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	2.4	1.0	0.5	0.5	0.4	0.3	0.9 ppb	0.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	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-Nov-07	0	1	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0.5	1.0
2-Nov-07	0	0	0	0	0	0	0	0	0	1	0	A	1	0	0	0	0	0	0	0	0	0	0	1	0.5	1.0
3-Nov-07	1	1	0	0	1	5	12	0	2	3	A	1	0	0	0	0	0	0	0	0	1	1	0	1.4	12.4	
4-Nov-07	1	0	0	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.6	1.2
5-Nov-07	1	1	0	1	1	0	0	0	A	1	2	1	1	1	1	1	3	2	1	1	1	1	1	1.0	2.8	
6-Nov-07	0	0	0	0	0	0	0	A	1	1	1	0	C	C	C	C	C	0	0	0	0	0	0	0.4	0.8	
7-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	0.5
8-Nov-07	0	0	0	A	0	1	0	0	1	8	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.9	7.8
9-Nov-07	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.8	1.5
10-Nov-07	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0.7	1.0
11-Nov-07	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	2	0	1	1	2	0.8	2.0
12-Nov-07	A	1	1	1	2	3	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	0.8	3.0
13-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	A	2	0.8	2.0
14-Nov-07	2	3	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4	3	2	A	1	1	1.4	3.5
15-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	0.6	1.0
16-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	A	1	2	1	1	0.6	1.9
17-Nov-07	1	0	1	1	0	2	1	2	2	3	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	3.0
18-Nov-07	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	A	1	1	2	2	2	1	0.9	1.5
19-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	0	1	1	1	1	1	0	0.7	1.0
20-Nov-07	0	0	1	0	1	1	2	1	1	1	1	1	0	0	0	A	0	0	1	1	1	1	0	0	0.9	2.0
21-Nov-07	0	0	1	1	0	1	1	0	1	1	1	1	1	0	A	0	0	0	0	0	2	1	1	1	0.8	1.9
22-Nov-07	1	2	3	1	1	2	3	2	3	3	2	2	1	A	1	2	2	3	2	2	2	2	1	1	2.0	2.9
23-Nov-07	2	2	2	1	2	1	2	2	1	1	1	3	A	1	2	1	2	2	3	3	2	2	2	1	2.0	3.4
24-Nov-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	1	0	1	0	0	0.9	1.5
25-Nov-07	0	0	0	0	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
26-Nov-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
27-Nov-07	0	0	0	0	1	1	0	1	A	2	1	1	1	1	1	1	2	2	1	1	1	1	0	0	0.9	1.8
28-Nov-07	0	0	0	A	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	2	3	2	0.9	2.9
29-Nov-07	2	2	A	2	2	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1.5	2.4
30-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.8	1.4
Hourly Avg	0.8	0.9	0.8	0.7	0.9	1.1	1.3	0.8	0.9	1.2	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.8	0.9		
Hourly Max	2.5	3.5	2.9	1.5	2.0	5.1	12.4	2.5	2.9	7.8	2.4	3.4	1.5	1.5	1.9	1.6	2.3	2.9	3.5	3.4	2.4	2.4	2.9	2.4		

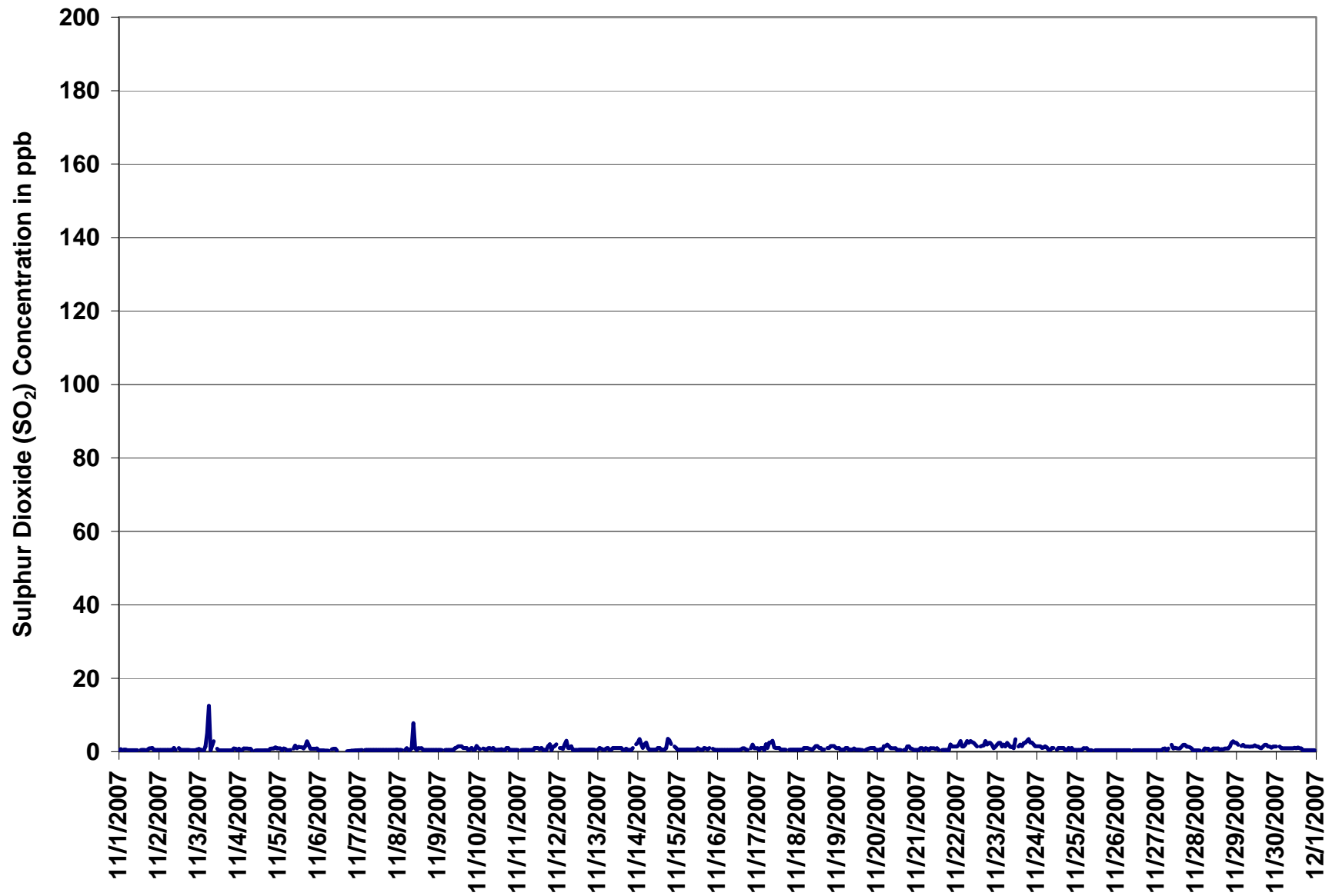
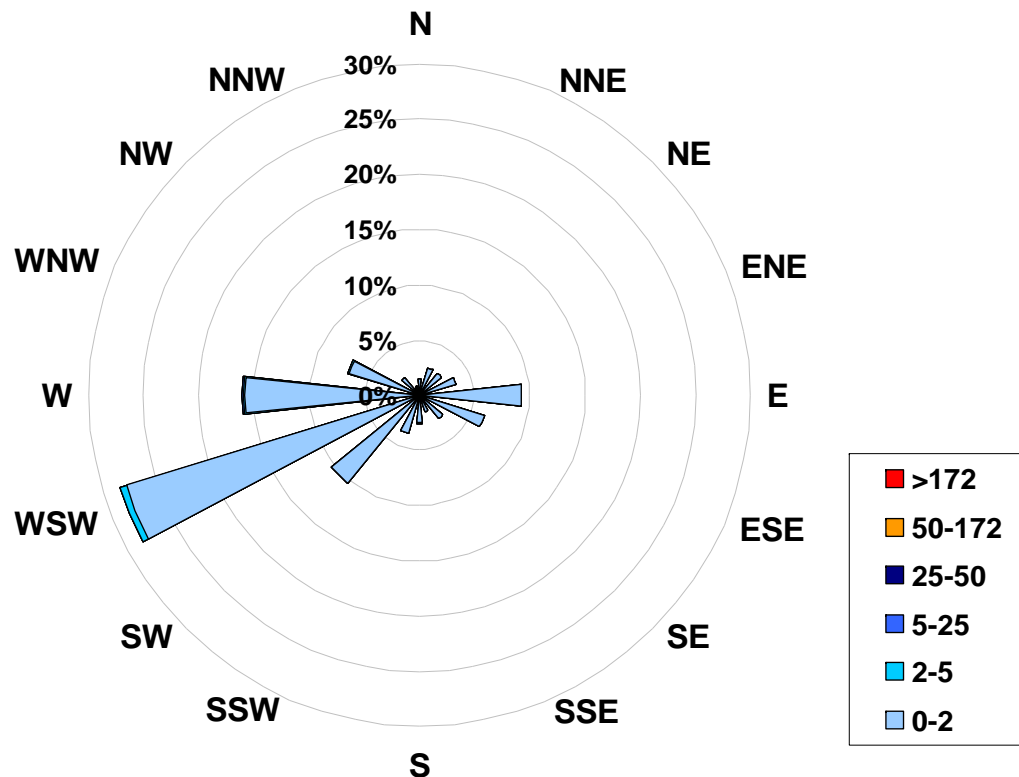


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	676
2	to	5	7
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			684

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
Station Owner: PASZA

HOURLY AVERAGE TABLE

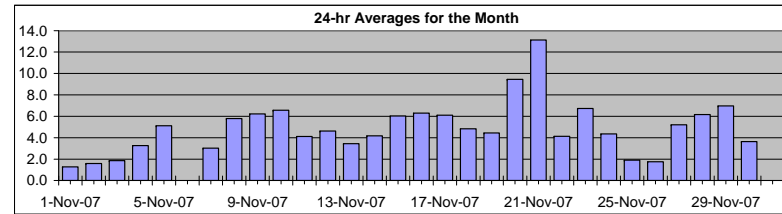
Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	24.9 ppb	27-Nov	7:00 8:00
Maximum 24-hr Average:	13.1 ppb	21-Nov	



AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.1	11.8	6.2	4.1	2.7	1.3	1.0	4.9 ppb	4.1 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-Nov-07	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.3	2.4
2-Nov-07	1	1	1	2	1	1	A	2	2	2	1	1	1	1	2	1	1	3	3	1	1	1	1	1	1.6	3.2
3-Nov-07	1	1	1	1	A	A	5	1	1	1	1	1	1	1	1	1	1	2	3	4	4	2	2	2	1.9	5.0
4-Nov-07	2	2	2	A	4	3	2	3	2	2	1	1	1	2	2	2	3	5	7	7	6	7	5	4	3.3	7.1
5-Nov-07	4	7	A	7	7	6	8	8	8	6	6	4	3	4	3	3	4	5	4	5	5	4	4	4	5.1	8.2
6-Nov-07	A	A	5	5	5	5	5	8	4	3	3	2	C	C	C	C	C	C	9	6	4	3	3	3	N	9.4
7-Nov-07	3	3	2	A	3	3	2	2	2	3	4	4	2	2	3	3	2	2	3	4	4	4	4	4	3.0	4.2
8-Nov-07	3	2	2	A	4	3	4	6	5	4	4	4	4	5	6	6	6	8	10	11	9	8	8	9	5.8	11.0
9-Nov-07	9	8	7	A	7	5	3	3	3	3	4	4	4	5	5	6	6	6	6	7	8	11	13	10	6.2	13.5
10-Nov-07	9	A	A	11	12	12	11	11	12	9	7	6	5	7	7	3	3	3	3	3	3	3	3	3	6.6	12.0
11-Nov-07	A	4	3	3	4	3	2	3	3	3	3	3	3	3	4	5	5	5	6	6	8	7	6	A	4.1	7.7
12-Nov-07	8	8	7	6	5	4	3	5	4	3	3	2	2	3	4	4	5	5	6	4	5	A	A	5	4.6	7.7
13-Nov-07	4	3	3	3	2	3	9	3	3	3	4	6	4	3	3	3	3	3	3	3	A	4	3	3	3.4	8.9
14-Nov-07	3	2	2	2	2	2	2	3	3	3	3	3	3	3	4	6	8	8	6	A	9	7	5	5	4.2	8.8
15-Nov-07	5	4	4	5	6	8	7	8	7	9	7	7	5	5	5	5	5	6	A	6	6	6	6	7	6.0	9.0
16-Nov-07	7	6	6	6	5	5	5	6	7	6	5	5	5	6	6	7	A	A	17	5	5	7	7	6	6.3	16.7
17-Nov-07	7	6	6	5	4	5	4	4	5	5	6	8	7	4	4	A	8	7	7	8	8	8	8	8	6.1	8.5
18-Nov-07	9	8	7	11	11	6	5	4	3	3	3	3	3	4	A	4	4	4	3	3	4	3	3	4	4.8	10.9
19-Nov-07	3	3	3	3	3	3	3	4	4	3	3	3	A	A	4	6	6	7	9	5	5	7	6	6	4.5	8.6
20-Nov-07	7	6	5	5	8	7	7	5	5	6	7	A	6	4	5	6	7	15	19	18	14	17	18	18	9.4	19.2
21-Nov-07	14	14	15	18	15	13	14	14	20	18	A	9	14	10	10	12	15	18	14	19	11	8	3	3	13.1	19.8
22-Nov-07	3	3	4	4	6	5	3	3	A	A	4	4	4	4	2	3	3	5	5	5	5	5	5	5	4.1	5.9
23-Nov-07	7	8	7	6	7	6	8	A	11	12	9	10	8	6	5	7	6	5	5	5	5	5	4	4	6.7	11.7
24-Nov-07	5	5	5	6	7	7	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4.3	6.8
25-Nov-07	3	3	3	4	A	A	4	3	1	1	1	1	2	1	2	2	2	1	1	1	1	1	1	1	1.9	3.7
26-Nov-07	1	1	1	A	3	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	1.8	2.6
27-Nov-07	2	2	A	3	3	5	4	25	7	8	6	5	6	6	5	5	4	5	5	6	5	3	2	2	5.2	24.9
28-Nov-07	2	2	2	A	3	3	3	7	8	8	8	5	5	6	5	5	8	17	14	7	5	5	6	7	6.2	16.8
29-Nov-07	7	6	A	5	5	4	4	4	4	4	4	4	4	6	6	7	8	12	10	14	15	15	9	5	7.0	15.4
30-Nov-07	4	A	5	4	4	4	3	20	3	4	4	4	3	3	4	3	3	3	1	1	2	2	1	1	3.6	20.3
Hourly Avg	4.8	4.5	4.3	5.3	5.2	4.7	4.9	6.1	4.9	4.7	3.8	4.0	4.0	3.8	4.1	4.5	5.1	5.9	6.3	5.8	5.5	5.5	5.0	4.7		
Hourly Max	14.4	14.3	15.4	17.7	14.5	13.2	14.0	24.9	19.8	17.8	8.8	10.1	14.1	9.5	10.1	12.0	16.8	18.5	19.2	19.1	14.9	16.5	18.5	17.8		

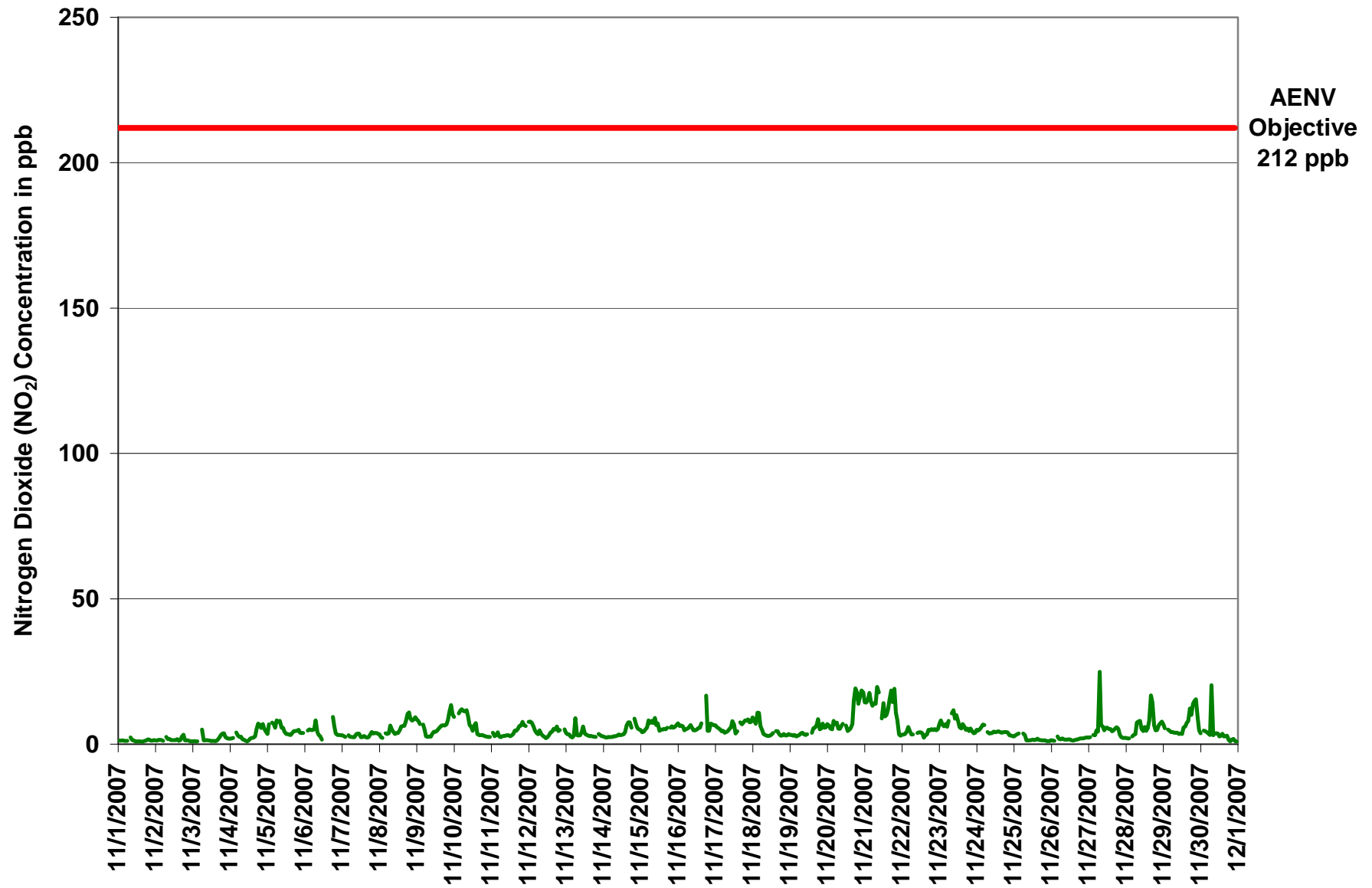


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

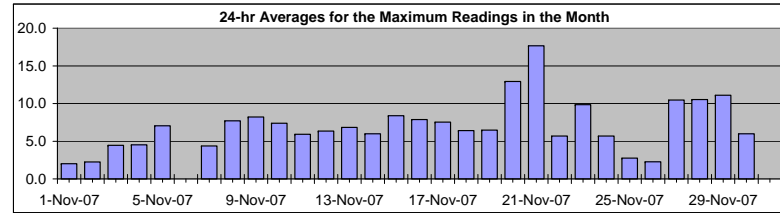
Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	113.0	ppb	27-Nov	7:00 8:00
Maximum 24-hr Value:	17.7	ppb	21-Nov	

AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.7	18.0	8.9	5.4	3.4	1.7	1.2	7.1 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-Nov-07	2	1	1	1	1	1	4	A	5	2	3	5	2	1	1	1	1	2	2	2	2	1	2	2	2.0	4.8
2-Nov-07	2	1	2	2	2	2	A	4	2	2	2	2	2	2	2	2	6	5	2	2	2	1	2	2.2	5.6	
3-Nov-07	1	1	1	1	A	A	37	1	2	2	2	2	2	2	1	1	2	11	5	9	5	4	2	2	4.4	36.9
4-Nov-07	2	3	3	A	7	3	3	4	2	2	2	1	2	3	3	3	4	10	10	8	7	12	6	5	4.5	12.3
5-Nov-07	5	10	A	12	8	8	11	11	10	7	7	6	4	4	4	6	5	5	7	6	11	5	5	4	7.1	11.6
6-Nov-07	A	A	A	6	6	6	7	17	12	4	4	3	C	C	C	C	C	17	9	5	4	5	4	N	16.8	
7-Nov-07	4	3	3	A	4	3	3	4	4	5	6	4	3	5	6	3	3	4	12	5	5	5	5	5	4.4	12.4
8-Nov-07	5	3	3	A	5	4	4	9	7	10	4	5	5	7	7	10	8	11	15	13	11	9	10	10	7.7	15.2
9-Nov-07	10	9	10	A	9	6	3	3	3	3	4	6	5	5	7	9	8	7	13	9	15	16	16	13	8.2	16.5
10-Nov-07	10	A	A	11	13	13	12	12	13	11	8	7	6	8	9	4	4	4	4	4	3	3	3	3	7.4	12.7
11-Nov-07	A	6	3	5	8	3	3	4	4	3	9	3	7	4	5	5	8	7	8	8	9	9	8	A	5.9	9.4
12-Nov-07	10	10	9	10	7	5	5	7	5	5	6	3	3	4	5	5	10	6	8	5	6	A	A	7	6.4	10.4
13-Nov-07	5	4	4	4	3	4	33	4	5	4	6	32	15	4	4	3	4	4	3	3	A	5	4	4	6.8	32.9
14-Nov-07	3	3	3	3	3	3	3	3	3	4	6	4	4	6	9	9	14	12	10	A	12	8	7	6	6.0	14.5
15-Nov-07	6	5	5	7	7	10	9	11	9	11	12	10	6	7	9	13	12	10	A	7	8	6	7	7	8.4	13.0
16-Nov-07	9	7	7	8	5	6	7	14	8	9	7	5	6	7	6	11	A	A	18	6	5	9	7	7	7.9	18.0
17-Nov-07	7	7	6	6	5	5	4	5	7	7	6	11	10	4	5	A	9	9	9	11	11	10	10	9	7.5	11.4
18-Nov-07	11	9	8	14	14	9	6	4	4	4	3	5	3	4	A	6	10	6	4	4	4	6	4	7	6.4	14.2
19-Nov-07	4	4	3	3	3	3	4	7	7	4	3	5	A	A	4	11	10	9	15	9	8	9	7	7	6.5	15.5
20-Nov-07	8	7	6	6	13	9	10	9	10	11	24	A	10	5	9	8	12	21	22	20	19	19	20	18	12.9	24.2
21-Nov-07	17	18	20	20	17	15	17	17	24	26	A	13	19	12	15	28	20	20	20	24	24	14	4	3	17.7	27.9
22-Nov-07	5	5	7	6	9	6	4	4	A	A	4	6	5	7	6	4	4	7	6	7	8	6	6	6	5.7	9.4
23-Nov-07	9	10	8	8	9	7	17	A	13	17	20	12	11	10	7	11	10	8	7	6	13	5	4	5	9.9	20.1
24-Nov-07	10	7	6	10	8	8	A	7	7	6	4	5	4	5	5	4	5	5	6	5	4	3	3	5.7	9.8	
25-Nov-07	3	4	4	5	A	A	5	6	2	2	3	2	3	2	2	3	2	2	3	2	2	1	2	2	2.7	6.2
26-Nov-07	2	2	2	A	3	3	3	3	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3	3	2.3	3.4
27-Nov-07	3	3	A	4	5	5	9	113	10	9	5	7	10	8	6	5	5	7	7	6	5	3	3	3	10.5	113.0
28-Nov-07	3	2	3	A	4	5	5	25	19	12	7	7	16	6	12	14	24	20	13	7	7	14	8	9	10.5	25.4
29-Nov-07	7	6	A	6	5	5	5	5	6	5	4	4	4	34	10	9	14	16	16	21	21	19	16	16	11.1	34.0
30-Nov-07	4	A	5	5	5	4	4	57	3	5	5	4	3	4	9	3	4	4	2	1	2	3	2	1	6.0	56.6
Hourly Avg	6.0	5.6	5.2	6.7	6.8	5.8	8.5	13.2	7.1	6.7	6.2	6.2	6.1	6.1	6.0	6.9	7.6	8.4	9.1	7.7	8.2	7.4	6.2	6.0		
Hourly Max	16.9	18.0	19.8	20.2	17.2	14.6	36.9	113.0	23.9	26.3	24.2	31.6	18.9	34.0	14.8	27.9	23.8	21.3	21.6	24.3	23.6	19.4	19.6	18.5		

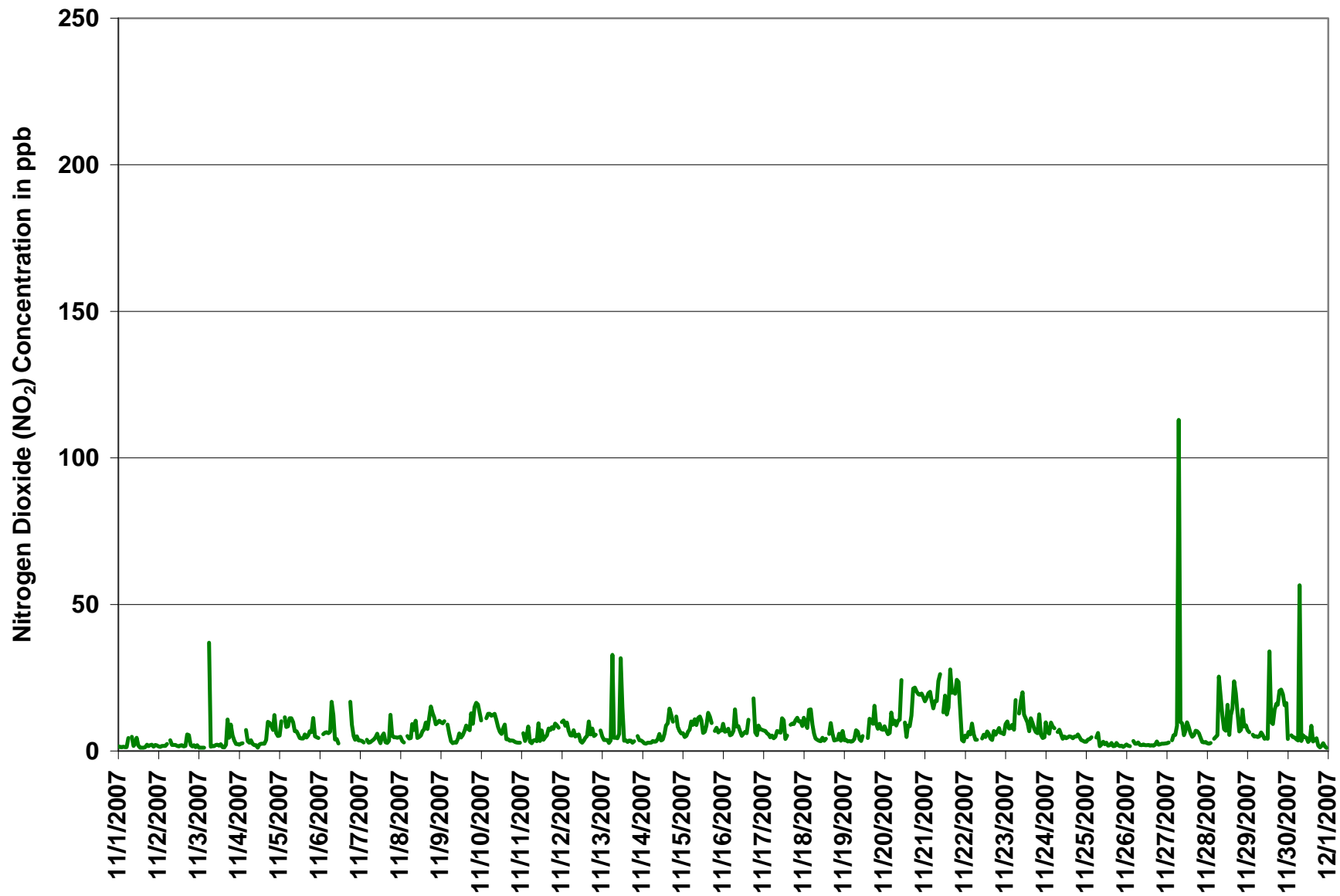
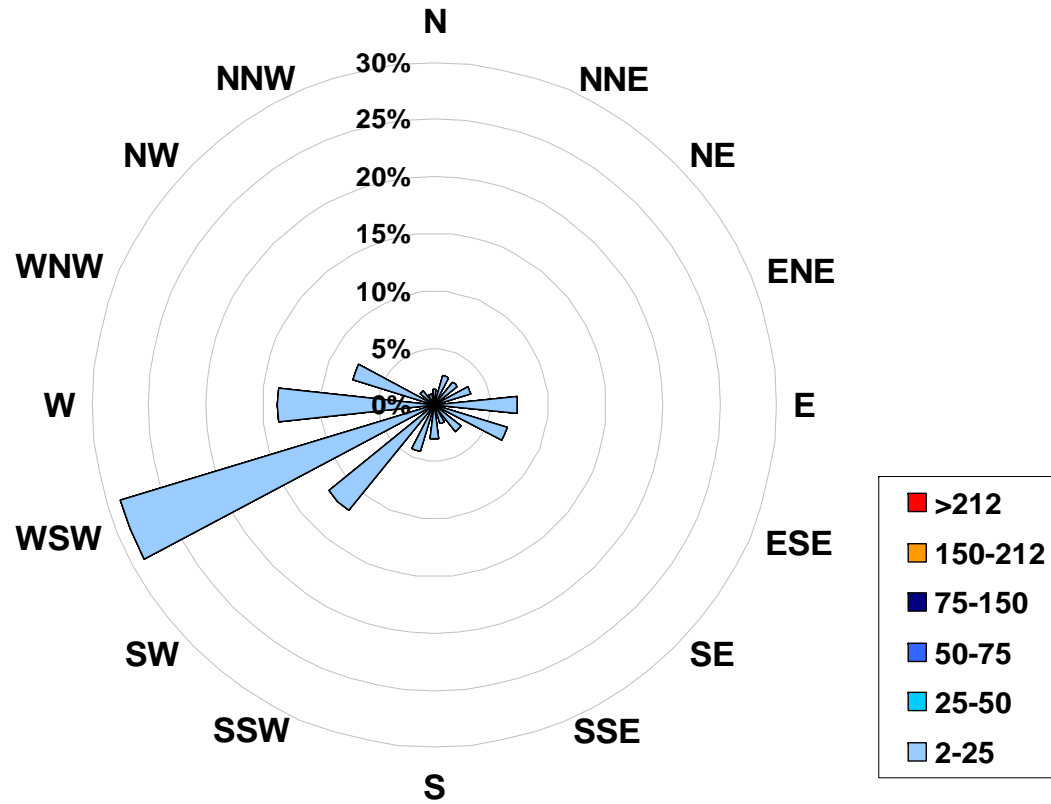


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for November 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	675	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		675	

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: November 1, 2007 to December 1, 2007

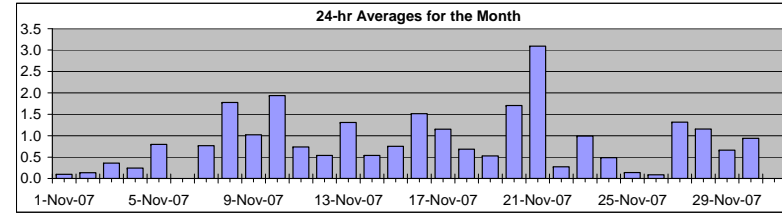
Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	18.5	ppb	27-Nov	7:00 8:00
Maximum 24-hr Average:	3.1	ppb	21-Nov	

AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.1	3.3	0.9	0.4	0.2	0.0	0.0	0.9 ppb	0.4 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Nov-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
2-Nov-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
3-Nov-07	0	0	0	0	A	A	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	5.0
4-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0.2	0.6
5-Nov-07	0	1	A	1	1	1	1	1	3	2	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0.8	2.6
6-Nov-07	A	A	1	1	1	1	1	2	1	1	1	1	C	C	C	C	C	C	1	0	0	0	0	0	0	N	1.9
7-Nov-07	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	0	0	3	0	1	1	1	1	1	0.8	3.0
8-Nov-07	1	1	1	A	1	1	1	1	1	2	5	4	4	5	4	2	1	2	1	1	1	1	1	1	1	1.8	4.7
9-Nov-07	1	1	1	A	1	0	0	0	0	0	1	1	2	2	2	2	1	1	1	1	2	1	1	1	1	1.0	2.3
10-Nov-07	1	A	A	1	1	1	1	1	3	6	6	5	3	5	5	1	1	0	0	0	0	0	0	0	0	1.9	5.8
11-Nov-07	A	0	0	1	2	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0.7	2.3	
12-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	A	1	0.5	1.1
13-Nov-07	1	1	1	1	0	0	6	1	1	1	2	8	2	2	1	1	1	1	0	0	A	0	0	0	0	1.3	7.5
14-Nov-07	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	1	1	0	A	0	0	0	0	0.5	1.6
15-Nov-07	0	0	0	0	0	1	0	0	1	2	2	2	1	1	2	1	1	0	A	0	0	0	0	0	0	0.8	2.3
16-Nov-07	1	0	0	1	1	1	1	1	1	1	2	2	3	3	4	3	A	A	6	1	1	1	1	1	1	1.5	6.4
17-Nov-07	1	1	1	1	1	1	1	0	0	1	2	5	3	2	2	A	1	1	1	1	1	1	1	1	1	1.1	4.6
18-Nov-07	1	1	1	1	1	1	1	1	0	0	0	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0.7	1.4
19-Nov-07	0	0	0	0	0	0	0	0	0	0	1	2	A	A	2	2	1	0	0	0	0	0	0	0	0	0.5	2.3
20-Nov-07	0	0	0	0	0	0	0	1	0	0	1	3	A	4	3	3	2	1	3	6	2	2	1	2	3	1.7	6.1
21-Nov-07	1	1	1	2	1	1	1	1	4	9	A	8	16	8	7	5	3	1	1	1	1	0	0	0	0	3.1	15.6
22-Nov-07	0	0	0	0	0	0	0	0	0	A	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.9
23-Nov-07	0	0	0	0	0	0	0	0	A	0	2	4	4	4	2	1	1	0	0	0	0	0	0	0	0	1.0	4.3
24-Nov-07	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.9
25-Nov-07	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-Nov-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
27-Nov-07	0	0	A	0	0	0	0	19	0	0	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	1.3	18.5
28-Nov-07	0	0	0	A	0	0	0	1	1	1	2	2	5	3	3	3	3	0	0	0	0	0	1	0	0	1.2	5.0
29-Nov-07	0	0	A	0	0	0	0	0	0	0	1	1	1	4	3	2	1	0	0	0	0	0	0	1	0	0.7	3.7
30-Nov-07	0	A	0	0	0	0	0	16	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.9	16.0
Hourly Avg	0.4	0.4	0.4	0.5	0.5	0.4	0.7	1.7	0.6	1.2	1.2	1.9	2.1	1.8	1.7	1.3	0.8	0.5	0.9	0.4	0.5	0.4	0.4	0.5			
Hourly Max	0.9	1.3	1.3	1.9	2.3	1.2	5.8	18.5	4.3	8.6	5.5	8.1	15.6	7.7	7.0	5.4	2.8	2.9	6.4	2.0	1.5	1.9	2.2	2.8			

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

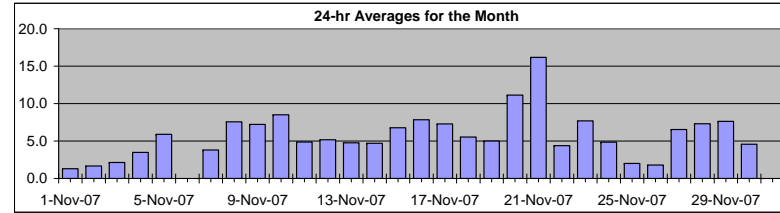
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Summary			
Maximum 1-hr Average:	43.5	ppb	27-Nov 7:00 8:00
Maximum 24-hr Average:	16.2	ppb	21-Nov



AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.3	14.5	7.2	4.7	3.1	1.3	1.0	5.8 ppb	4.7 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	24:00
1-Nov-07	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.3	2.4
2-Nov-07	1	1	2	2	1	1	A	3	2	2	2	2	2	2	2	1	1	3	3	1	1	1	1	1	1	1.7	3.4	
3-Nov-07	1	1	1	1	A	A	10	1	1	2	1	1	1	1	1	1	1	3	3	4	4	2	2	2	2	2.1	9.9	
4-Nov-07	2	2	2	A	4	3	3	3	2	2	1	1	1	2	2	3	3	6	8	7	6	8	6	4	4	3.5	7.7	
5-Nov-07	4	8	A	9	8	7	10	9	11	8	7	5	4	4	4	4	4	5	5	5	6	4	4	4	4	5.9	10.6	
6-Nov-07	A	A	5	6	6	6	6	10	5	4	4	2	C	C	C	C	C	C	10	6	4	3	3	3	N	10.1		
7-Nov-07	3	3	3	A	3	3	3	3	3	4	5	5	3	4	4	3	3	3	6	5	4	5	5	4	4	3.8	6.2	
8-Nov-07	4	3	3	A	4	4	4	4	7	6	6	8	8	9	11	10	8	9	13	12	10	9	9	10	7.6	12.5		
9-Nov-07	9	9	8	A	7	5	3	3	3	3	4	5	6	7	7	8	8	7	7	8	9	13	15	11	7.2	14.8		
10-Nov-07	10	A	A	11	13	13	13	12	14	15	12	11	8	11	13	4	4	4	4	3	3	3	3	3	3	8.5	15.2	
11-Nov-07	A	4	3	4	6	3	3	3	3	3	4	4	4	4	5	6	6	6	7	7	7	7	A	A	4.9	8.3		
12-Nov-07	8	8	8	7	5	4	4	5	4	3	3	2	3	4	5	5	6	6	7	5	6	A	A	A	6	5.2	8.2	
13-Nov-07	5	4	4	3	3	3	15	4	4	4	6	14	6	5	4	4	4	3	3	3	A	4	3	3	4.8	14.8		
14-Nov-07	3	3	3	3	3	3	3	3	3	3	4	4	4	5	6	8	8	8	6	A	9	7	6	5	4.7	9.1		
15-Nov-07	5	4	5	5	6	9	8	8	8	11	9	9	6	6	7	7	6	6	A	6	6	6	6	7	6.8	10.7		
16-Nov-07	8	7	7	7	5	6	6	7	7	7	6	7	8	9	9	10	A	A	23	6	5	8	8	7	7.8	23.1		
17-Nov-07	7	7	6	6	5	5	5	5	5	6	8	13	10	5	6	A	9	7	8	9	9	9	8	9	7.3	12.5		
18-Nov-07	10	9	8	12	12	7	6	4	4	3	3	4	4	5	A	6	6	4	3	3	4	4	3	4	5.5	12.3		
19-Nov-07	3	3	3	3	3	3	3	4	4	4	4	5	A	A	6	8	7	7	9	5	6	6	6	6	5.0	9.1		
20-Nov-07	7	7	6	5	8	7	8	6	6	8	10	A	10	7	8	8	8	18	25	20	15	18	21	21	11.1	25.3		
21-Nov-07	15	15	17	20	16	14	15	15	24	26	A	17	30	17	17	17	18	19	15	20	11	8	3	3	16.2	29.6		
22-Nov-07	3	3	4	4	6	5	3	3	A	A	4	5	5	5	3	3	4	5	5	5	5	5	5	5	4.4	6.0		
23-Nov-07	7	8	7	6	7	6	8	A	11	14	13	14	12	8	7	8	7	5	6	5	6	5	4	4	7.7	14.3		
24-Nov-07	5	5	5	6	7	7	A	5	4	4	4	5	5	5	5	5	5	5	5	5	4	3	3	3	4.9	7.1		
25-Nov-07	3	3	4	4	A	A	4	3	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	2.0	4.1		
26-Nov-07	1	1	1	A	3	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1.8	2.7		
27-Nov-07	2	2	A	3	3	5	4	43	7	7	6	7	8	7	6	5	5	6	6	5	4	3	2	2	6.5	43.5		
28-Nov-07	3	2	2	A	3	3	4	9	8	9	7	7	11	8	8	11	20	15	7	5	5	7	7	8	7.3	19.6		
29-Nov-07	7	6	A	5	5	4	4	4	4	4	4	4	5	5	9	9	9	9	12	10	14	15	16	9	7.6	15.5		
30-Nov-07	4	A	5	5	4	4	3	36	3	4	4	4	5	3	4	5	3	3	3	1	1	2	1	1	4.6	36.3		
Hourly Avg	5.2	4.9	4.7	5.8	5.6	5.1	5.6	7.8	5.5	5.9	5.0	5.9	6.1	5.6	5.8	5.8	5.8	6.3	7.2	6.2	6.0	5.9	5.4	5.1				
Hourly Max	15.2	15.1	16.6	19.6	15.6	13.8	14.8	43.5	24.1	26.3	12.5	16.9	29.6	17.1	17.0	17.3	19.6	19.3	25.3	20.1	15.4	17.9	20.6	20.6				

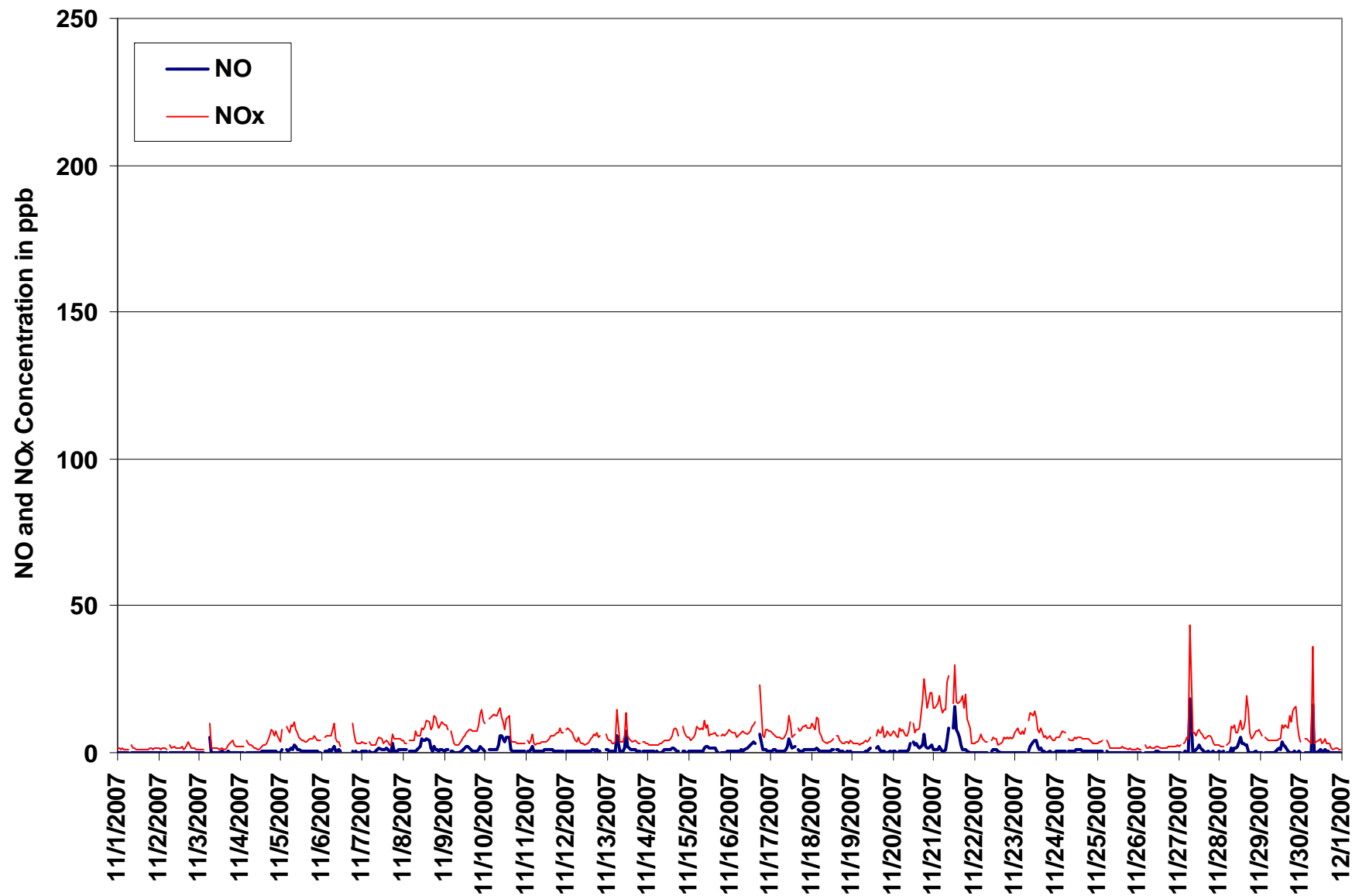


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

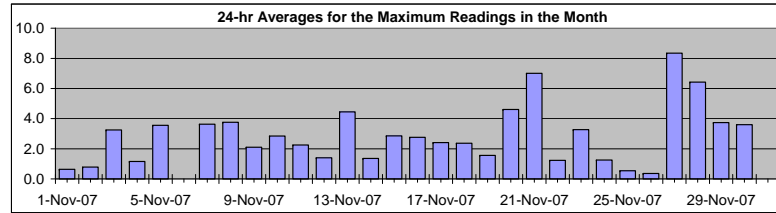
Nitric Oxide (NO)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	136.3	ppb	27-Nov	7:00 8:00
Maximum 24-hr Value:	8.4	ppb	27-Nov	

AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.3	9.4	2.8	0.9	0.5	0.2	0.1	2.9 ppb	0.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								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
1-Nov-07	0	0	0	0	0	0	0	2	A	0	0	1	3	1	0	0	0	0	1	0	0	1	0	4	0	0.6	3.5
2-Nov-07	0	0	0	0	0	0	1	A	1	0	0	1	0	1	1	1	1	1	5	2	0	0	1	0	1	0.8	4.9
3-Nov-07	0	0	0	0	A	A	49	0	3	1	1	1	2	5	0	0	0	5	1	1	1	1	0	1	3.3	48.7	
4-Nov-07	0	2	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	3	5	2	2	7	0	0	1.2	6.7	
5-Nov-07	1	7	A	6	3	5	8	6	5	3	5	2	2	1	2	2	3	3	3	12	1	0	0	3.6	12.2		
6-Nov-07	A	A	1	3	1	2	1	20	2	1	4	9	C	C	C	C	C	2	1	4	0	1	0	N	19.9		
7-Nov-07	1	1	1	A	0	0	1	2	3	4	4	2	1	6	4	1	1	0	46	0	2	2	1	1	3.6	46.2	
8-Nov-07	1	1	1	A	1	1	1	1	1	7	4	9	6	7	7	11	2	3	9	3	5	1	2	3	3.8	10.7	
9-Nov-07	2	2	4	A	1	1	0	0	0	0	1	2	2	3	3	3	2	1	1	1	8	7	2	1	2.1	8.3	
10-Nov-07	1	A	A	1	2	2	3	3	6	8	7	5	2	5	6	8	1	1	1	1	0	1	1	1	2.9	8.1	
11-Nov-07	A	1	1	4	11	0	1	0	1	1	5	1	7	2	2	2	4	2	1	1	2	4	0	A	2.3	10.9	
12-Nov-07	1	1	0	1	0	0	1	1	1	1	2	2	1	1	1	1	1	11	2	1	1	2	A	A	1	1.4	10.7
13-Nov-07	1	1	1	1	1	1	29	2	2	1	4	38	11	2	2	2	1	1	1	1	1	A	0	0	4.4	37.6	
14-Nov-07	0	0	0	0	0	2	1	0	0	1	2	1	2	2	2	5	3	2	3	1	A	2	0	0	1.4	5.4	
15-Nov-07	1	1	1	0	1	9	0	1	4	3	5	4	2	4	5	15	4	1	A	1	1	0	1	0	2.9	15.1	
16-Nov-07	3	1	1	1	1	1	3	8	1	2	4	3	4	4	4	6	A	A	10	1	2	1	1	1	2.8	9.6	
17-Nov-07	1	1	1	1	1	1	1	1	0	2	2	10	6	2	3	A	1	2	1	2	6	6	3	2	2.4	9.7	
18-Nov-07	1	2	1	3	1	1	1	1	1	1	1	2	1	2	A	2	12	6	0	0	0	7	0	7	2.4	12.3	
19-Nov-07	0	0	0	0	0	0	0	0	1	1	1	5	A	A	2	7	3	1	5	4	0	0	1	0	1.6	7.0	
20-Nov-07	0	0	0	0	0	0	3	0	2	5	10	A	9	3	9	8	6	11	13	5	6	5	4	5	4.6	12.8	
21-Nov-07	2	2	6	7	2	1	1	2	8	17	A	17	29	12	14	19	7	5	3	5	3	1	0	0	7.0	28.5	
22-Nov-07	1	0	1	0	0	0	0	0	A	A	1	3	1	5	8	1	0	1	0	1	1	1	0	0	1.2	7.8	
23-Nov-07	0	0	0	0	1	0	0	A	1	7	27	7	8	5	2	5	1	1	1	0	7	0	0	0	3.3	26.6	
24-Nov-07	4	0	0	0	0	1	A	1	4	4	1	1	1	2	2	1	1	1	1	2	0	0	0	1	1.3	4.3	
25-Nov-07	0	0	0	0	A	A	0	1	0	1	2	1	1	1	0	0	0	0	2	0	0	0	0	0	0.5	2.1	
26-Nov-07	0	0	0	A	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
27-Nov-07	0	1	A	0	1	1	3	136	2	1	9	5	17	5	2	1	1	2	0	1	1	1	1	1	8.4	136.3	
28-Nov-07	1	1	2	A	1	0	2	42	10	5	3	4	33	4	8	8	6	1	1	1	2	10	1	1	6.4	41.6	
29-Nov-07	0	0	A	0	0	0	0	1	2	1	1	2	2	40	7	4	5	1	1	1	4	0	0	12	3.7	39.7	
30-Nov-07	0	A	0	0	0	0	0	64	0	0	1	2	1	1	8	1	1	1	0	0	0	0	0	0	3.6	64.4	
Hourly Avg	0.9	1.0	0.9	1.3	1.1	1.2	4.0	10.5	2.1	2.7	3.8	4.8	5.6	4.5	3.9	3.7	2.7	2.2	3.9	1.3	2.6	2.0	0.9	1.5			
Hourly Max	4.3	6.5	5.7	6.5	10.9	8.8	48.7	136.3	10.4	16.7	26.6	37.6	33.1	39.7	14.0	19.4	12.3	10.7	46.2	5.3	12.2	9.7	4.1	12.2			

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

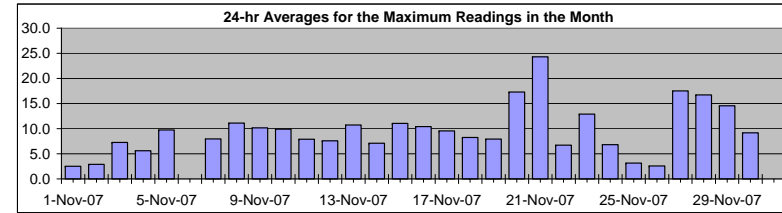
Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	226.2	ppb	27-Nov	7:00 8:00
Maximum 24-hr Value:	24.3	ppb	21-Nov	

AIC Time:	39 hrs	Operational Time:	675 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	53.8	25.1	11.1	6.5	4.0	1.8	1.2	9.7 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	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-Nov-07	2	2	1	2	1	1	6	A	5	2	3	8	3	1	1	1	1	3	2	2	3	2	5	2	2.5	7.9	
2-Nov-07	2	1	2	2	2	4	A	5	2	2	3	2	2	3	2	2	2	11	7	2	2	2	1	3	2.9	10.5	
3-Nov-07	1	1	1	1	A	A	83	2	2	2	3	3	3	6	1	1	2	15	5	10	6	4	3	3	7.3	82.9	
4-Nov-07	2	4	3	A	7	3	3	4	3	2	2	1	3	3	3	3	5	12	14	11	9	19	6	5	5.6	19.0	
5-Nov-07	6	16	A	18	10	12	16	15	13	9	11	7	6	5	5	7	5	6	8	9	23	6	5	5	9.7	23.4	
6-Nov-07	A	A	7	8	8	8	8	36	14	5	7	3	C	C	C	C	C	17	9	9	4	6	4	N	36.1		
7-Nov-07	4	4	3	A	4	3	4	5	7	9	10	5	4	11	10	4	3	4	59	6	7	7	5	5	8.0	58.6	
8-Nov-07	6	5	4	A	6	5	5	10	8	17	8	14	11	14	14	20	9	14	23	15	14	10	11	13	11.1	23.1	
9-Nov-07	11	12	13	A	10	6	4	3	3	3	5	8	7	8	10	11	9	8	14	10	23	24	18	14	10.2	23.7	
10-Nov-07	11	A	A	12	14	14	15	14	17	17	14	12	11	14	17	5	5	4	4	4	3	3	3	3	9.9	17.1	
11-Nov-07	A	7	4	8	18	4	3	4	5	4	14	4	14	6	6	7	11	8	9	8	12	11	8	A	7.9	17.9	
12-Nov-07	10	11	9	10	7	6	6	8	6	7	7	4	3	4	5	6	21	7	8	6	6	A	A	8	7.6	20.7	
13-Nov-07	6	5	5	5	3	4	52	6	6	6	9	69	25	5	4	5	4	5	4	4	A	5	4	5	10.8	69.2	
14-Nov-07	4	3	3	3	3	3	4	4	3	5	8	5	6	8	14	12	16	14	11	A	13	9	7	6	7.1	16.4	
15-Nov-07	6	5	6	7	8	17	10	11	13	14	17	14	8	10	13	28	16	10	A	8	9	7	8	7	11.0	28.2	
16-Nov-07	12	7	7	8	6	7	10	22	9	10	11	7	10	10	10	16	A	A	27	8	6	10	8	8	10.4	26.8	
17-Nov-07	8	8	7	7	6	6	5	5	7	8	8	8	21	16	6	8	A	10	11	10	11	14	14	12	11	9.5	20.9
18-Nov-07	13	11	9	17	15	10	7	5	5	4	4	6	5	5	A	8	20	12	4	4	4	9	4	9	8.3	20.3	
19-Nov-07	4	4	3	4	3	4	4	7	8	5	5	10	A	A	6	18	13	11	20	13	8	10	8	7	7.9	20.4	
20-Nov-07	9	7	6	6	13	10	12	9	12	16	32	A	19	8	18	16	18	32	34	25	25	24	23	23	17.3	34.3	
21-Nov-07	19	20	25	27	19	16	18	18	31	43	A	30	47	24	29	47	26	23	22	29	27	14	4	3	24.3	47.2	
22-Nov-07	5	5	7	6	10	6	4	4	A	A	5	9	6	12	14	5	4	7	6	7	9	7	6	6	6.7	13.7	
23-Nov-07	9	10	8	8	9	7	18	A	13	24	47	18	18	15	9	16	10	8	8	6	20	6	5	5	12.9	46.7	
24-Nov-07	14	7	6	10	9	8	A	7	11	9	5	6	5	6	7	6	5	6	5	7	5	4	4	4	6.8	14.0	
25-Nov-07	4	4	5	5	A	A	5	6	2	3	5	3	4	2	2	3	2	2	4	2	2	2	1	2	3.2	6.4	
26-Nov-07	2	2	2	A	4	3	3	4	2	2	3	3	2	3	2	2	2	3	4	2	2	3	3	3	2.6	3.7	
27-Nov-07	3	4	A	4	7	6	12	226	10	10	15	11	26	13	8	5	6	8	7	7	5	4	3	4	17.5	226.2	
28-Nov-07	4	3	4	A	5	5	8	67	29	17	10	10	49	10	20	22	30	21	14	7	9	22	9	10	16.7	66.9	
29-Nov-07	7	6	A	6	5	5	5	6	8	6	5	6	6	6	74	17	13	19	17	16	21	25	20	16	14.6	73.8	
30-Nov-07	4	A	5	5	5	4	4	116	4	6	6	6	4	5	15	4	4	4	2	1	2	3	2	1	9.2	115.6	
Hourly Avg	6.7	6.5	6.0	7.8	7.8	6.7	11.8	22.4	8.9	9.2	9.8	10.6	11.5	10.4	9.8	10.5	10.0	10.2	12.7	8.8	10.4	9.0	6.8	7.1			
Hourly Max	18.9	20.1	25.4	26.5	19.2	17.1	82.9	226.2	30.7	42.8	46.7	69.2	48.6	73.8	28.8	47.2	29.8	31.9	58.6	28.8	26.6	24.1	23.2	27.1			

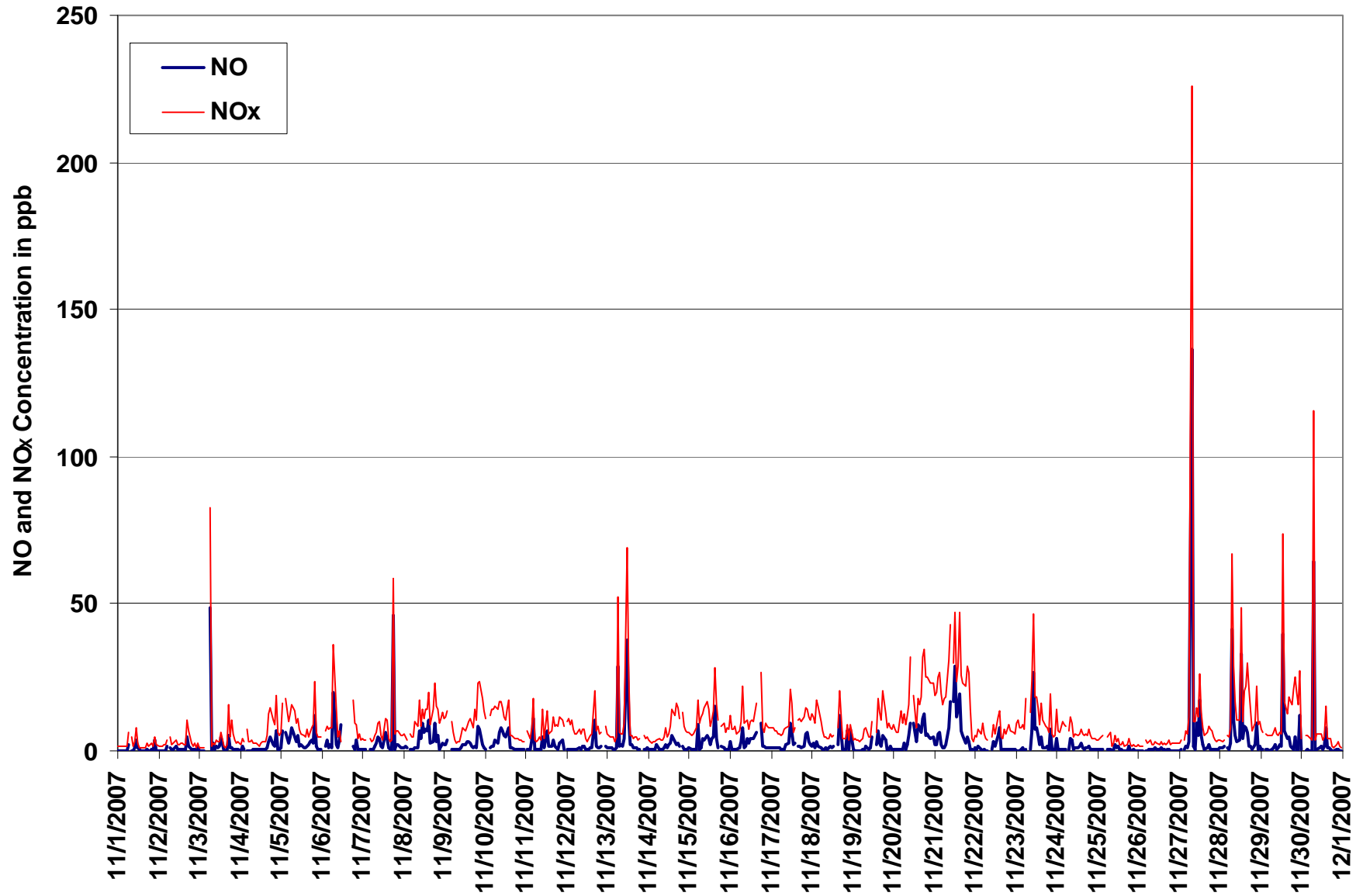


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

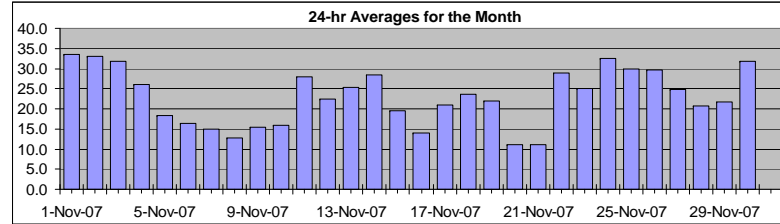
Monitoring Dates: November 1, 2007 to December 1, 2007

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	38.4 ppb	2-Nov	15:00 16:00
Maximum 24-hr Average:	33.6 ppb	1-Nov	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.5	34.8	30.2	24.2	16.8	6.9	3.2	23.0 ppb	24.2 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-Nov-07	34	34	34	34	35	35	35	35	35	35	35	35	A	34	34	34	34	33	33	32	31	31	31	31	31	33.6	35.3
2-Nov-07	31	31	30	29	30	31	31	31	31	33	33	35	A	37	36	36	38	37	32	31	33	33	33	34	35	33.1	38.4
3-Nov-07	35	35	35	36	35	35	33	35	34	34	A	35	35	35	35	34	33	28	24	22	22	26	27	28	31.8	35.7	
4-Nov-07	28	26	25	24	24	24	26	27	30	A	34	35	35	35	35	34	32	20	17	17	18	15	18	19	26.1	35.4	
5-Nov-07	25	18	13	15	11	11	6	9	A	7	15	15	21	23	26	27	25	24	25	23	22	19	20	20	18.2	26.6	
6-Nov-07	15	13	9	9	11	9	11	A	18	20	24	21	21	27	28	25	21	18	12	10	13	14	15	15	16.5	27.7	
7-Nov-07	14	15	18	A	18	18	17	16	15	12	11	C	C	C	A	17	16	16	14	12	15	13	14	15	15.0	17.9	
8-Nov-07	14	15	15	A	16	17	14	11	13	18	20	15	17	18	15	13	13	10	7	6	8	9	6	5	12.8	19.9	
9-Nov-07	7	6	7	A	8	12	21	22	23	23	22	21	20	20	20	19	18	17	17	16	13	8	6	9	15.4	23.4	
10-Nov-07	9	9	A	4	3	3	3	4	4	5	8	8	9	7	10	31	31	30	30	31	31	31	31	31	15.9	31.4	
11-Nov-07	31	A	32	31	30	30	31	31	31	30	30	29	29	30	29	29	28	26	24	24	21	22	22	21	27.9	31.6	
12-Nov-07	A	18	18	22	26	27	29	26	26	27	26	25	25	24	23	20	19	18	18	23	20	17	16	A	22.5	29.3	
13-Nov-07	18	20	21	23	24	25	23	25	26	25	24	26	26	26	26	27	27	27	28	28	29	29	A	29	25.3	29.3	
14-Nov-07	29	30	30	31	31	31	31	31	31	31	30	31	31	31	30	27	26	25	28	22	23	A	23	22	28.4	31.4	
15-Nov-07	21	23	23	21	19	14	14	13	13	15	19	21	25	24	23	23	23	22	21	21	A	19	18	16	19.6	24.7	
16-Nov-07	14	14	14	14	15	14	13	13	12	13	14	14	14	13	13	11	8	4	2	A	28	22	22	22	14.1	27.5	
17-Nov-07	22	24	26	25	29	28	32	32	32	28	24	22	24	22	19	19	18	14	A	9	8	7	8	9	20.9	31.8	
18-Nov-07	7	8	8	3	10	18	20	26	29	30	30	31	31	32	32	31	30	A	28	28	28	28	28	27	23.5	32.0	
19-Nov-07	28	29	29	29	29	29	27	23	23	23	23	21	18	19	22	15	14	A	16	17	22	21	17	16	21.9	28.9	
20-Nov-07	14	15	17	17	13	14	13	15	15	14	14	14	15	17	16	A	13	5	2	1	5	3	1	0	11.0	17.0	
21-Nov-07	4	5	4	1	3	5	5	6	4	7	14	14	13	16	A	14	10	8	10	6	21	23	30	31	11.0	30.5	
22-Nov-07	30	31	31	30	27	28	30	30	28	29	29	29	30	A	31	31	30	29	28	27	29	28	26	25	29.0	31.3	
23-Nov-07	23	21	21	21	21	21	19	22	20	16	17	19	A	30	27	20	31	32	32	29	30	33	35	35	25.1	35.5	
24-Nov-07	34	33	32	30	28	29	31	37	37	36	35	A	34	33	32	33	33	33	33	31	30	31	32	31	32	32.5	37.3
25-Nov-07	31	31	31	30	30	29	29	27	24	25	A	27	28	28	28	29	32	33	32	33	33	33	32	32	29.9	33.2	
26-Nov-07	32	32	30	29	28	28	28	28	29	A	29	28	29	30	31	31	31	31	31	30	30	29	29	28	29.6	31.6	
27-Nov-07	28	28	28	28	27	24	24	21	A	23	24	24	24	25	24	25	25	23	22	22	24	26	27	26	24.9	28.3	
28-Nov-07	26	26	26	A	25	24	23	19	19	19	21	22	21	21	20	18	11	14	22	23	22	20	18	17	20.6	25.8	
29-Nov-07	17	19	A	21	21	22	21	21	24	23	24	24	25	26	24	21	23	19	21	17	15	15	25	29	21.6	29.3	
30-Nov-07	29	A	28	27	27	28	29	26	31	30	30	30	32	31	31	34	35	35	37	37	36	36	36	36	31.9	37.4	
Hourly Avg	22.4	21.7	22.6	22.5	21.9	22.1	22.4	22.8	23.5	22.5	23.6	23.5	24.8	25.6	25.5	25.1	24.5	22.2	22.1	21.9	22.7	22.0	22.3	22.8			
Hourly Max	34.5	34.6	34.8	35.7	35.3	35.0	35.2	37.2	37.3	36.1	35.1	35.3	36.5	36.5	36.0	38.4	37.2	34.7	37.4	37.3	36.5	35.8	36.4	36.2			

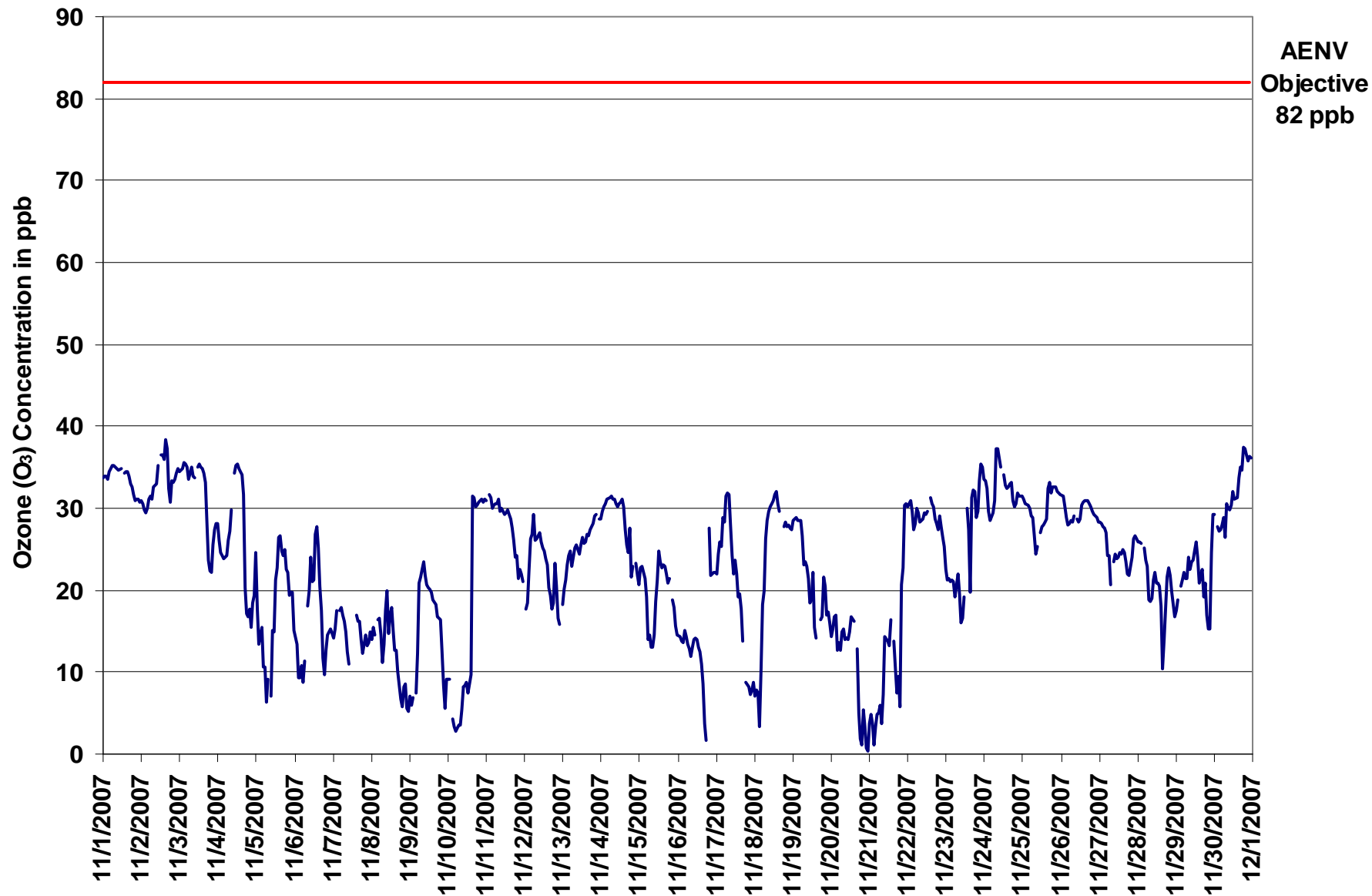


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

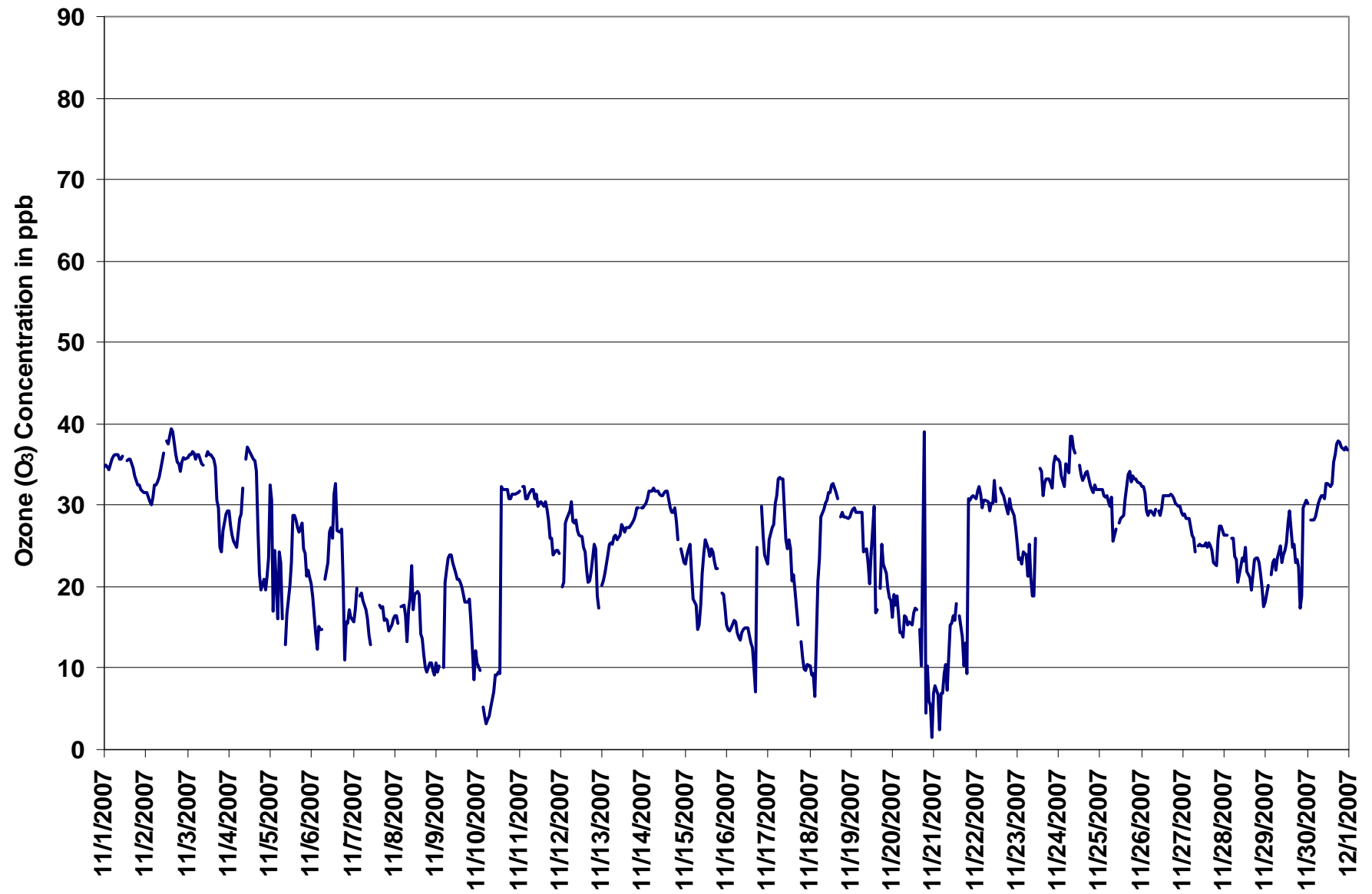
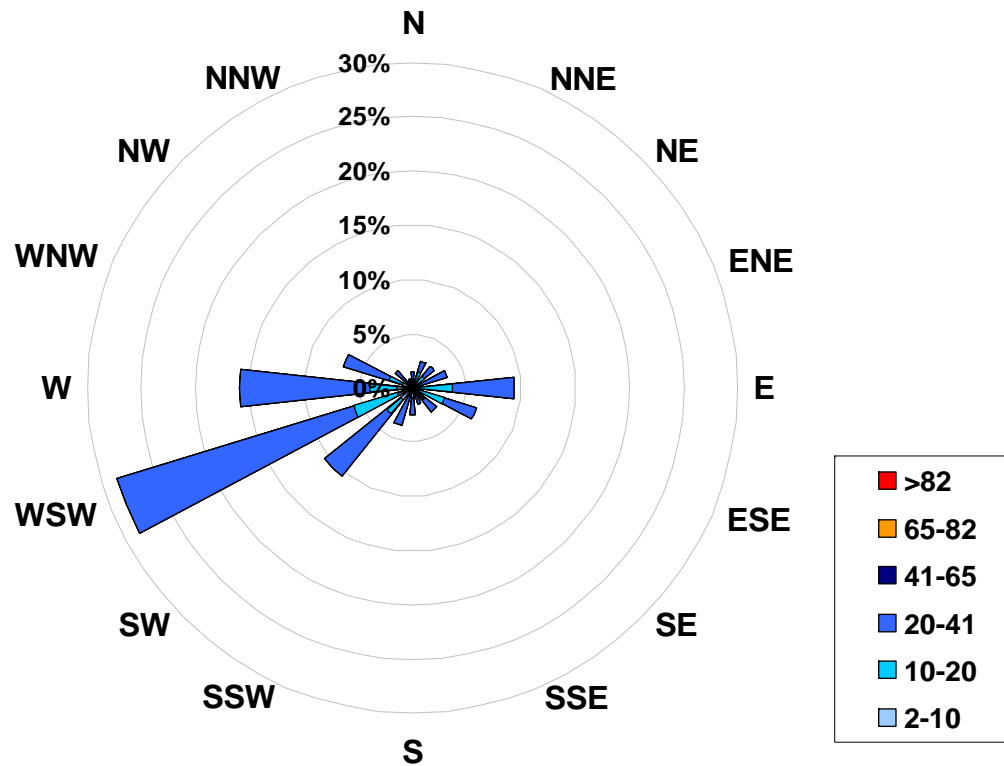


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for November 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		66
10	to 20		165
20	to 41		453
41	to 65		0
65	to 82		0
	> 82		0
Total Non-Zero Values			684

PASZA - Portable-Spirit River Ozone Eight Hour Average Summary

Station: Portable-Spirit River
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

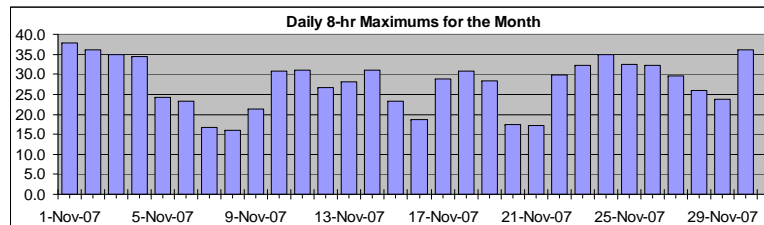
Monitoring Dates: November 1, 2007 to December 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	37.7 ppb 1-Nov 0:00 1:00

Percentile	99	95	75	50	25	5	1
	35.4	34.5	29.7	24.0	17.3	7.9	3.8



Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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	Daily Maximum
1-Nov-07	38	37	36	35	35	35	34	34	35	35	35	35	35	35	35	35	35	34	34	33	33	33	32	32	37.7
2-Nov-07	31	31	31	31	30	30	30	31	31	31	32	32	33	34	34	35	36	36	35	35	35	34	34	34	36.1
3-Nov-07	33	34	34	34	35	35	35	35	35	35	35	34	34	34	35	35	35	34	32	31	29	28	27	26	34.9
4-Nov-07	26	25	26	26	26	26	26	26	26	26	27	29	30	32	33	34	34	33	30	28	26	23	21	20	34.3
5-Nov-07	19	18	18	18	17	16	15	13	12	10	11	11	12	14	17	19	20	22	23	24	24	24	23	22	24.3
6-Nov-07	21	20	18	16	15	13	12	11	12	13	15	16	18	20	23	23	23	23	21	20	19	17	16	15	23.3
7-Nov-07	14	14	14	15	16	16	16	17	17	16	15	15	N	N	N	N	N	N	N	N	N	15	15	14	16.6
8-Nov-07	14	14	14	14	15	15	15	15	15	15	16	16	16	16	16	16	16	15	13	12	11	10	9	8	16.0
9-Nov-07	7	7	7	7	7	7	9	12	14	16	19	19	20	21	21	21	20	20	19	18	17	16	14	13	21.4
10-Nov-07	12	11	10	8	7	6	6	5	4	4	4	5	6	6	7	10	14	17	20	22	25	28	31	31	30.8
11-Nov-07	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	30	29	29	28	27	26	25	25	24	31.1
12-Nov-07	23	22	21	21	21	22	23	24	24	25	26	27	26	26	25	25	24	23	22	21	21	20	19	19	26.6
13-Nov-07	19	19	19	19	20	21	22	22	23	24	24	25	25	25	26	26	26	26	27	27	27	28	28	28	28.1
14-Nov-07	28	29	29	29	30	30	30	31	31	31	31	31	31	31	31	30	30	29	28	27	26	26	25	24	30.9
15-Nov-07	23	23	22	22	22	21	20	19	18	17	16	16	17	18	19	20	21	22	23	23	22	22	21	20	23.2
16-Nov-07	19	18	17	16	15	15	14	14	14	14	14	14	13	13	13	13	13	11	10	9	11	12	14	15	18.7
17-Nov-07	17	20	24	24	24	25	26	27	29	29	29	28	28	27	25	24	22	20	20	18	16	14	12	10	28.9
18-Nov-07	9	8	8	7	8	9	10	13	15	18	21	24	27	28	30	31	31	31	30	30	30	29	28	28	30.8
19-Nov-07	28	28	28	28	28	28	28	28	27	26	25	24	23	22	21	20	19	18	17	18	18	17	18	18	28.3
20-Nov-07	17	17	17	17	16	15	15	15	15	15	14	14	14	15	15	15	15	13	12	10	9	7	4	4	17.5
21-Nov-07	3	3	3	3	3	3	3	4	4	4	6	7	9	10	11	12	13	13	12	11	12	13	15	17	17.2
22-Nov-07	20	23	25	28	29	30	30	30	29	29	29	29	29	29	29	30	30	30	30	29	29	29	29	28	29.9
23-Nov-07	27	26	25	24	23	23	22	21	21	20	20	19	19	20	22	21	23	25	27	29	29	29	30	32	32.2
24-Nov-07	33	33	33	33	33	32	32	32	32	33	33	34	34	35	35	34	34	33	33	32	32	32	32	32	35.0
25-Nov-07	31	31	31	31	31	31	30	30	29	28	28	27	27	27	27	27	28	29	30	30	31	32	32	32	32.4
26-Nov-07	32	32	32	31	31	30	30	29	29	29	28	28	29	29	29	30	30	30	30	30	31	30	30	30	32.3
27-Nov-07	30	29	29	29	28	28	27	26	26	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	29.5
28-Nov-07	25	25	25	26	26	26	25	24	23	22	21	21	21	21	20	20	19	18	19	19	19	19	18	18	26.0
29-Nov-07	19	20	19	19	19	19	20	20	21	22	22	23	23	23	24	24	23	23	23	22	21	19	19	20	23.7
30-Nov-07	21	22	23	24	26	28	28	28	28	28	29	29	30	30	30	31	32	32	33	34	35	35	36	36	36.2

Hourly Max 37.7 36.9 36.1 35.4 35.0 34.9 34.8 34.8 34.7 34.7 34.8 34.9 35.0 34.9 35.0 35.4 36.1 36.0 35.4 35.2 34.7 35.2 35.9 36.2

PASZA - Portable-Spirit River Total Reduced Sulphur Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

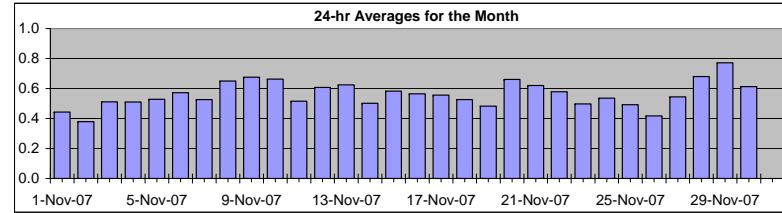
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

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

Maximum 1-hr Average:	1.1	ppb	28-Nov	23:00 0:00
Maximum 24-hr Value:	0.8	ppb	29-Nov	

AIC Time:	32 hrs		Operational Time:	686 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.8	0.6	0.5	0.5	0.4	0.4	0.6 ppb	0.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Nov-07	0	1	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0.4	0.5	
2-Nov-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	
3-Nov-07	0	1	1	0	0	1	1	0	0	1	A	1	1	0	0	0	0	0	0	0	1	1	1	1	0.5	0.7	
4-Nov-07	1	0	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.5	0.7	
5-Nov-07	1	1	1	1	1	1	1	1	A	1	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0.5	0.7	
6-Nov-07	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0.6	0.7	
7-Nov-07	1	1	0	A	0	0	0	0	1	1	1	1	1	1	C	C	A	1	0	1	0	1	1	1	0.5	0.7	
8-Nov-07	1	0	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	
9-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
10-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.7	1.0	
11-Nov-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.5	0.7	
12-Nov-07	A	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.8	
13-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.9	
14-Nov-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	1	0.5	0.8	
15-Nov-07	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	1	1	1	0.6	0.9	
16-Nov-07	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	A	1	1	1	1	0.6	0.9	
17-Nov-07	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8	
18-Nov-07	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	1	0	0.5	0.7	
19-Nov-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	A	0	1	1	1	1	1	1	0.5	0.6	
20-Nov-07	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1	A	1	1	1	1	1	1	1	1	0.7	1.0	
21-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.6	0.8	
22-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	0.6	0.7	
23-Nov-07	0	0	0	0	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	1	1	0.5	0.6	
24-Nov-07	0	1	1	1	1	1	1	0	0	1	1	A	0	1	1	1	1	0	1	1	1	1	1	0	0.5	0.7	
25-Nov-07	0	1	1	1	1	1	1	1	0	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0.7	
26-Nov-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
27-Nov-07	0	0	0	0	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.5	0.8	
28-Nov-07	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1	
29-Nov-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
30-Nov-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0.6	0.8	
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Hourly Max	1.0	0.9	0.8	1.1	1.0	0.9	1.0	0.9	0.8	0.9	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.9	0.9	0.8	0.8	0.8	1.1	1.1	1.1	1.1	

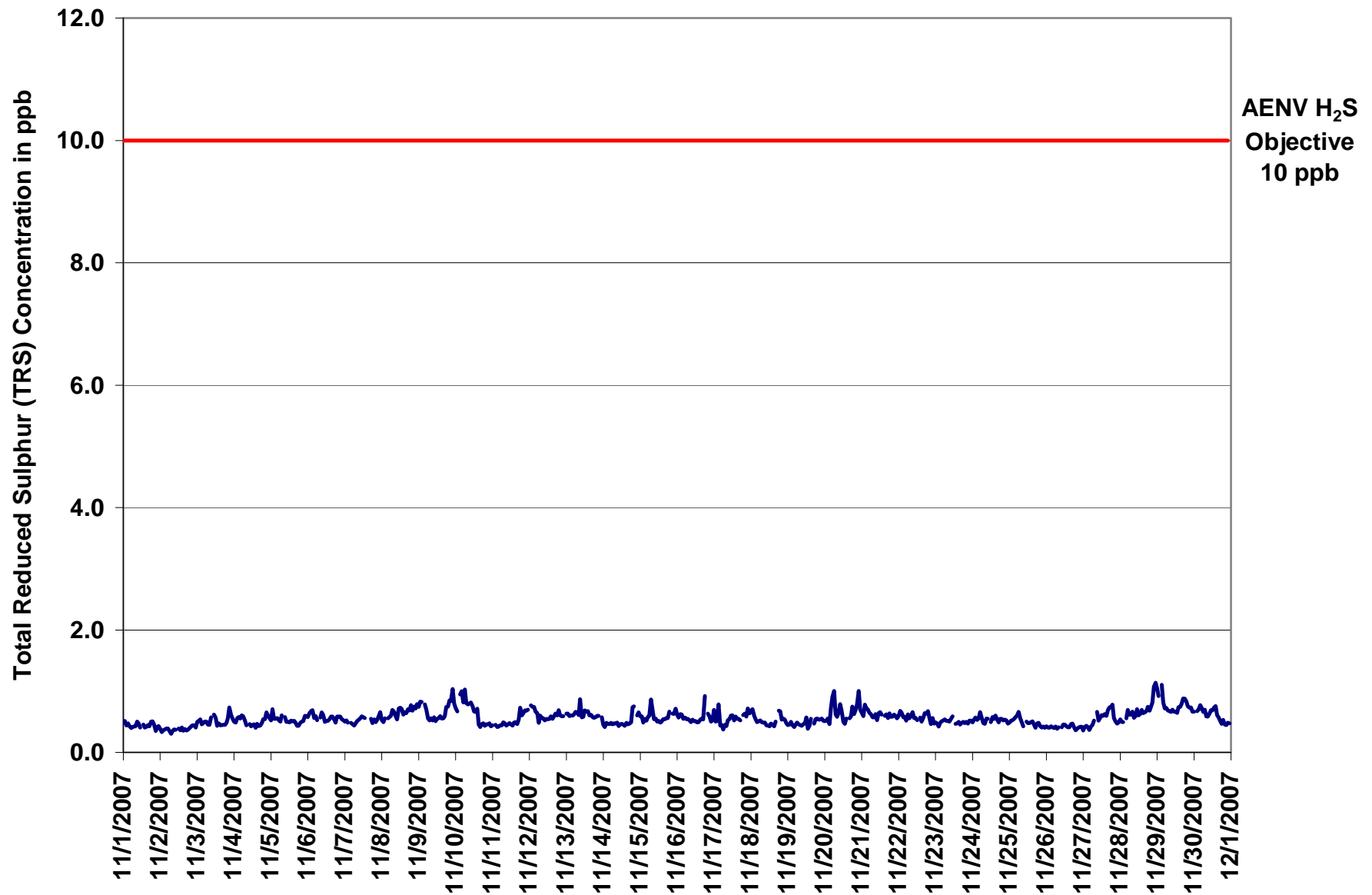


Figure 54. PASZA - Portable-Spirit River Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

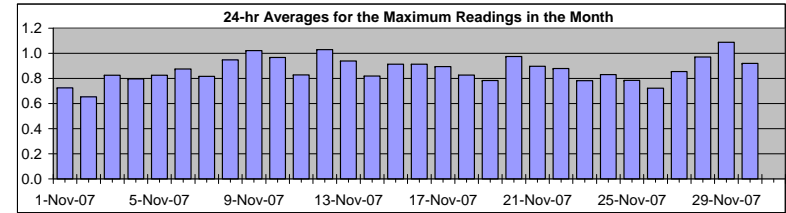
Total Reduced Sulphur (TRS)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	2.2	ppb	9-Nov	18:00 19:00
Maximum 24-hr Value:	1.1	ppb	29-Nov	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.4	1.2	0.9	0.8	0.8	0.7	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																								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-Nov-07	1	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	0.7	0.9
2-Nov-07	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	0.7	0.8
3-Nov-07	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	1	1	0.8	1.1
4-Nov-07	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	1	1	0.8	1.0
5-Nov-07	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	1	1	0.8	1.0
6-Nov-07	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	0.9	1.0
7-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	1	1	1	1	0.8	1.0
8-Nov-07	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	1	1	0.9	1.2
9-Nov-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.0	2.2
10-Nov-07	1	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
11-Nov-07	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	0.8	1.2
12-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	A	1.0	1.8	
13-Nov-07	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	2.0
14-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3
15-Nov-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.3
16-Nov-07	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	0.9	1.3
17-Nov-07	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	1	0.9	1.4
18-Nov-07	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	1	0.8	1.0
19-Nov-07	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	1	0.8	0.9
20-Nov-07	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	1	1.0	1.4
21-Nov-07	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	1	1	0.9	1.1
22-Nov-07	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	1	1	0.9	1.1
23-Nov-07	1	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	0.8	1.1
24-Nov-07	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	0.8	1.0
25-Nov-07	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	1	1	0.8	0.9
26-Nov-07	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	1	1	0.7	0.9
27-Nov-07	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	0.9	1.2
28-Nov-07	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	1	1	1.0	1.5
29-Nov-07	1	1	A	2	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	1.8
30-Nov-07	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	0.9	1.2
Hourly Avg	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	0.9	0.9	0.9	0.9	0.9	0.9		
Hourly Max	1.4	1.3	1.4	1.8	1.3	1.3	1.3	1.2	1.1	2.0	1.1	1.0	1.0	1.0	1.1	1.2	1.1	1.2	2.2	1.8	1.3	1.3	1.4	1.5					

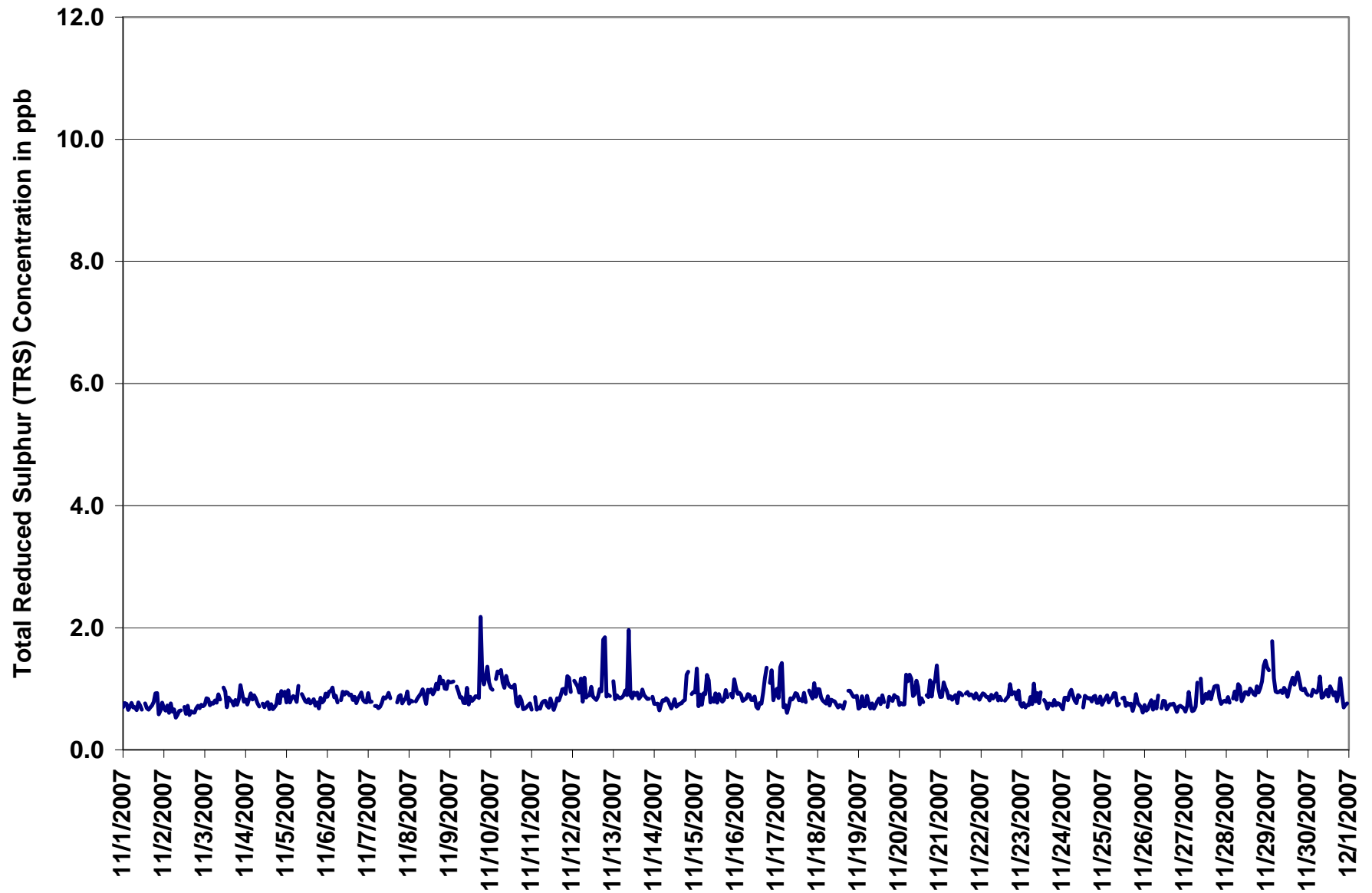
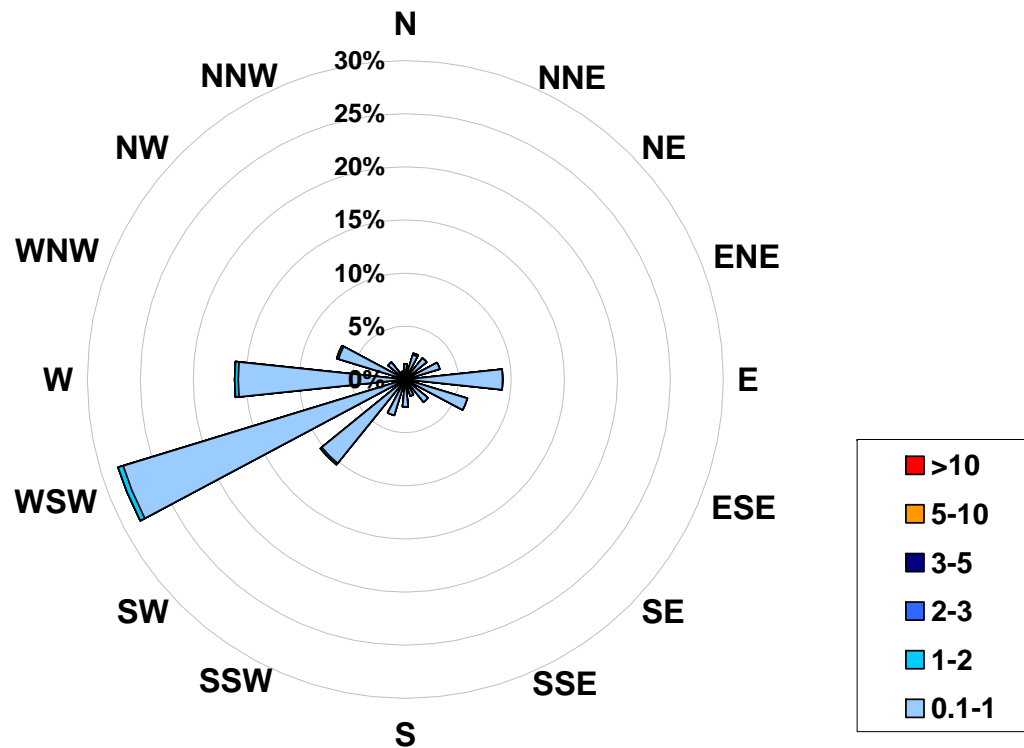


Figure 55. PASZA - Portable-Spirit River Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb) Located at the Portable-Spirit River Site for November 2007



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	< 1		676
1	to 2		8
2	to 3		0
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			685

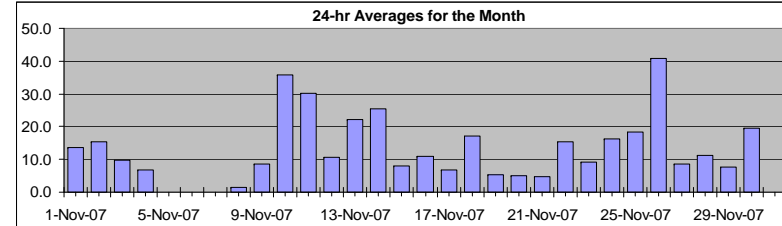
PASZA - Portable-Spirit River Vector Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2007 to December 1, 2007



Summary

Maximum 1-hr Average:	59.1	km/hr	10-Nov	21:00	22:00
Maximum 24-hr Value:	40.7	km/hr	26-Nov		

Calm Time:	0 hrs	0% calms	Operational Time:	650 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	38.8	23.7	13.1	8.7	5.5	3.4	2.8	30.7 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
1-Nov-07	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		
30-Nov-07	1-hr Vector	10.1	10.1	10.4	12.1	10.3	10.1	9.4	6.3	5.9	4.7	5.8	4.2	2.3	3.2	3.3	5.0	5.1	6.3	9.7	7.7	10.2	10.6	8.6	8.9		
	Hourly Max	23.8	34.2	38.0	29.2	24.8	26.4	27.3	27.3	27.9	30.2	29.8	29.5	32.5	33.6	28.3	35.1	42.7	37.9	47.3	49.6	56.9	59.1	40.3	39.5		

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: November 1, 2007 to December 1, 2007

Summary

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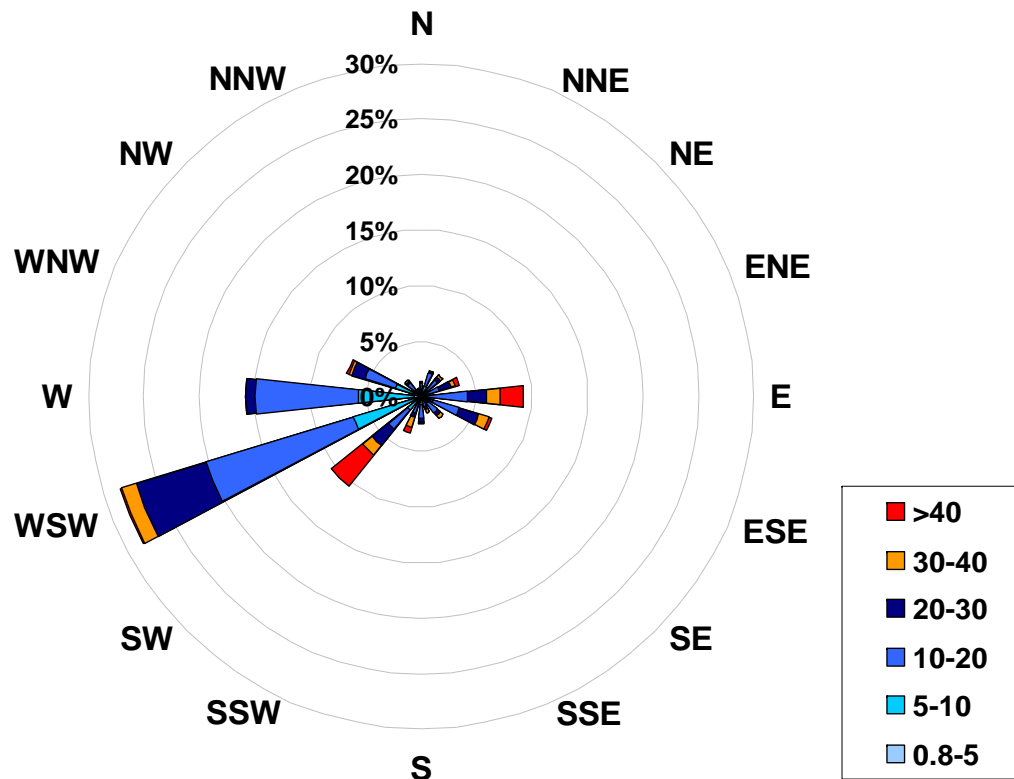
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	650 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%			
Percentile	99	95	75	50	25	5	1
	81.7	67.0	27.0	11.9	6.4	3.0	0.5

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																								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-Nov-07	4	4	4	3	4	4	4	5	4	6	7	7	8	9	9	10	9	6	4	4	4	4	4	4	9.9
2-Nov-07	3	3	4	5	5	7	6	4	7	4	5	5	6	6	7	7	4	6	12	7	5	4	5	7	12.3
3-Nov-07	6	6	5	5	5	6	7	5	6	4	4	5	7	10	12	12	14	16	11	4	4	6	11	15	15.8
4-Nov-07	12	10	12	5	6	6	7	8	13	11	7	7	9	9	10	11	17	23	9	7	N	N	N	N	23.0
5-Nov-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
6-Nov-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	M	M	M	M	M	M	M	M	0.0
7-Nov-07	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	44	24	10	9	8	10	43.9
8-Nov-07	34	21	46	48	52	61	18	14	23	11	64	23	12	13	7	8	5	12	72	23	29	22	71	60	72.3
9-Nov-07	80	29	24	54	75	60	14	10	9	3	22	30	40	88	83	1	0	0	0	0	0	0	0	43	88.1
10-Nov-07	7	8	12	35	14	15	18	2	8	12	35	33	80	34	74	3	3	3	3	3	3	2	4	3	80.3
11-Nov-07	12	12	5	4	5	5	6	8	10	12	8	3	9	5	10	8	12	18	67	18	14	32	25	9	66.9
12-Nov-07	40	37	13	18	14	28	10	10	6	8	6	4	7	20	21	9	33	43	71	9	24	17	14	16	71.0
13-Nov-07	15	11	14	15	16	15	17	15	22	13	4	21	22	11	12	15	10	5	4	9	9	7	3	3	22.2
14-Nov-07	3	3	2	3	3	3	4	3	3	5	3	4	3	3	6	8	6	25	20	17	16	22	12	13	24.9
15-Nov-07	46	41	38	72	52	13	12	13	21	18	26	39	49	21	13	7	4	6	5	6	2	7	8	8	72.4
16-Nov-07	8	10	34	57	67	65	13	14	11	5	12	23	13	11	26	78	37	26	61	10	5	3	3	3	78.1
17-Nov-07	3	3	6	5	39	80	75	75	64	49	14	21	7	7	48	43	38	22	54	15	19	21	49	41	80.4
18-Nov-07	54	27	31	28	27	16	11	7	4	7	7	12	14	13	17	17	12	10	6	4	5	4	6	7	54.1
19-Nov-07	3	3	3	3	4	4	74	14	53	32	18	28	72	59	26	35	56	17	72	64	25	74	47	37	74.3
20-Nov-07	33	41	22	73	31	36	41	30	41	63	46	9	11	7	6	6	5	6	71	12	27	11	31	26	73.4
21-Nov-07	38	25	31	58	16	50	67	68	17	31	82	27	47	30	50	48	49	44	22	17	58	70	22	10	82.1
22-Nov-07	15	22	31	35	22	10	8	5	13	24	12	12	9	12	11	9	6	9	9	7	8	16	63	37	62.7
23-Nov-07	27	12	7	21	45	13	11	34	89	70	57	31	69	30	63	91	9	8	40	67	11	29	27	56	91.3
24-Nov-07	38	88	50	19	22	83	22	17	13	13	15	16	11	13	10	12	12	20	22	27	13	7	9	8	88.1
25-Nov-07	8	11	12	21	17	18	16	80	4	9	4	8	5	8	10	5	7	12	4	6	11	5	7	10	79.9
26-Nov-07	6	7	5	10	7	4	4	3	3	2	3	3	3	3	4	3	3	3	4	10	7	20	12	18	20.3
27-Nov-07	16	50	6	19	17	15	5	16	41	41	28	34	70	30	10	16	46	22	36	42	15	6	7	7	70.2
28-Nov-07	5	9	8	10	19	17	4	5	7	8	26	10	65	21	16	15	8	16	11	8	20	6	7	44	65.4
29-Nov-07	4	27	61	43	45	60	34	27	29	36	18	28	26	15	81	63	34	54	35	61	12	26	60	17	81.3
30-Nov-07	11	13	15	9	11	10	9	9	18	21	29	15	4	7	7	7	7	21	8	6	5	11	19	5	29.3
Hourly Max	80	88	61	73	75	83	75	80	89	70	82	39	80	88	83	91	56	54	72	67	58	74	71	60	

1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	7
5	to	10	142
10	to	20	289
20	to	30	111
30	to	40	50
	>	40	50
Total Non-Zero Values			649

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)

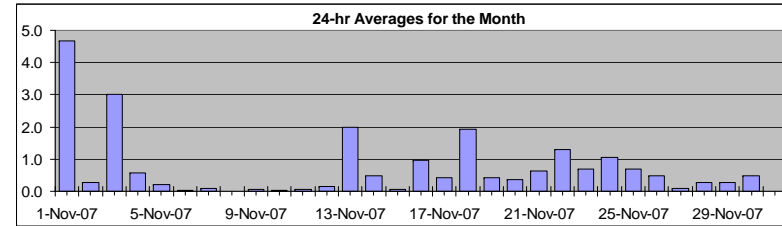
Monitoring Dates: November 1, 2007 to December 1, 2007

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:	12.9 ppb 1-Nov 8:00 9:00
Maximum 24-hr Average:	4.7 ppb 1-Nov

AIC Time:	30 hrs	Operational Time:	683 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.6	3.4	0.7	0.3	0.0	0.0	0.0	0.7 ppb	0.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								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-Nov-07	A	0	0	0	11	12	12	12	13	4	4	1	0	0	0	0	2	3	2	5	8	4	8	5	4.7	12.9
2-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0.3	2.5
3-Nov-07	A	0	1	2	2	2	10	5	1	3	5	8	9	7	6	3	0	0	0	1	0	0	2	1	3.0	9.6
4-Nov-07	A	2	3	1	0	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.6
5-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0.2	0.7
6-Nov-07	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	0.2
7-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.1	0.8
8-Nov-07	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	0.2
9-Nov-07	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	0.4
10-Nov-07	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	0.2
11-Nov-07	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
12-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.2	0.9
13-Nov-07	A	0	0	0	0	0	0	0	1	1	0	1	1	0	0	1	2	2	2	5	9	5	7	7	2.0	8.6
14-Nov-07	A	4	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.1
15-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	P	P	P	0	0	0	0	0	0	0	0	0.1	0.3
16-Nov-07	A	0	0	0	0	0	1	4	4	3	2	1	C	C	C	C	1	1	0	1	1	0	0	0	1.0	3.8
17-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	4	0.4	4.0
18-Nov-07	A	2	1	1	0	2	0	1	2	6	4	6	8	4	0	0	0	0	0	1	1	1	1	1	1.9	7.8
19-Nov-07	A	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0.4	1.6
20-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.9
21-Nov-07	A	1	1	1	0	0	0	0	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	0.6	1.3
22-Nov-07	A	1	1	1	2	3	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1.3	3.0
23-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0.7	1.1
24-Nov-07	A	1	1	1	1	1	1	1	3	3	1	1	0	1	1	2	1	1	1	0	1	1	2	1	1.0	2.6
25-Nov-07	A	1	1	2	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	0.7	2.0
26-Nov-07	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0.5	1.0
27-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.6
28-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	0.3	2.4
29-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
30-Nov-07	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	0.5	0.7
Hourly Avg	N	0.5	0.4	0.4	0.7	0.8	1.0	1.0	1.1	0.9	0.7	0.8	0.9	0.7	0.5	0.4	0.5	0.5	0.5	0.7	0.9	0.6	1.1	0.9		
Hourly Max	0.0	4.1	2.6	2.2	10.5	11.9	12.1	11.9	12.9	6.1	5.1	8.2	8.9	7.2	5.5	3.4	2.4	3.3	2.4	5.3	8.6	5.3	8.2	7.4		

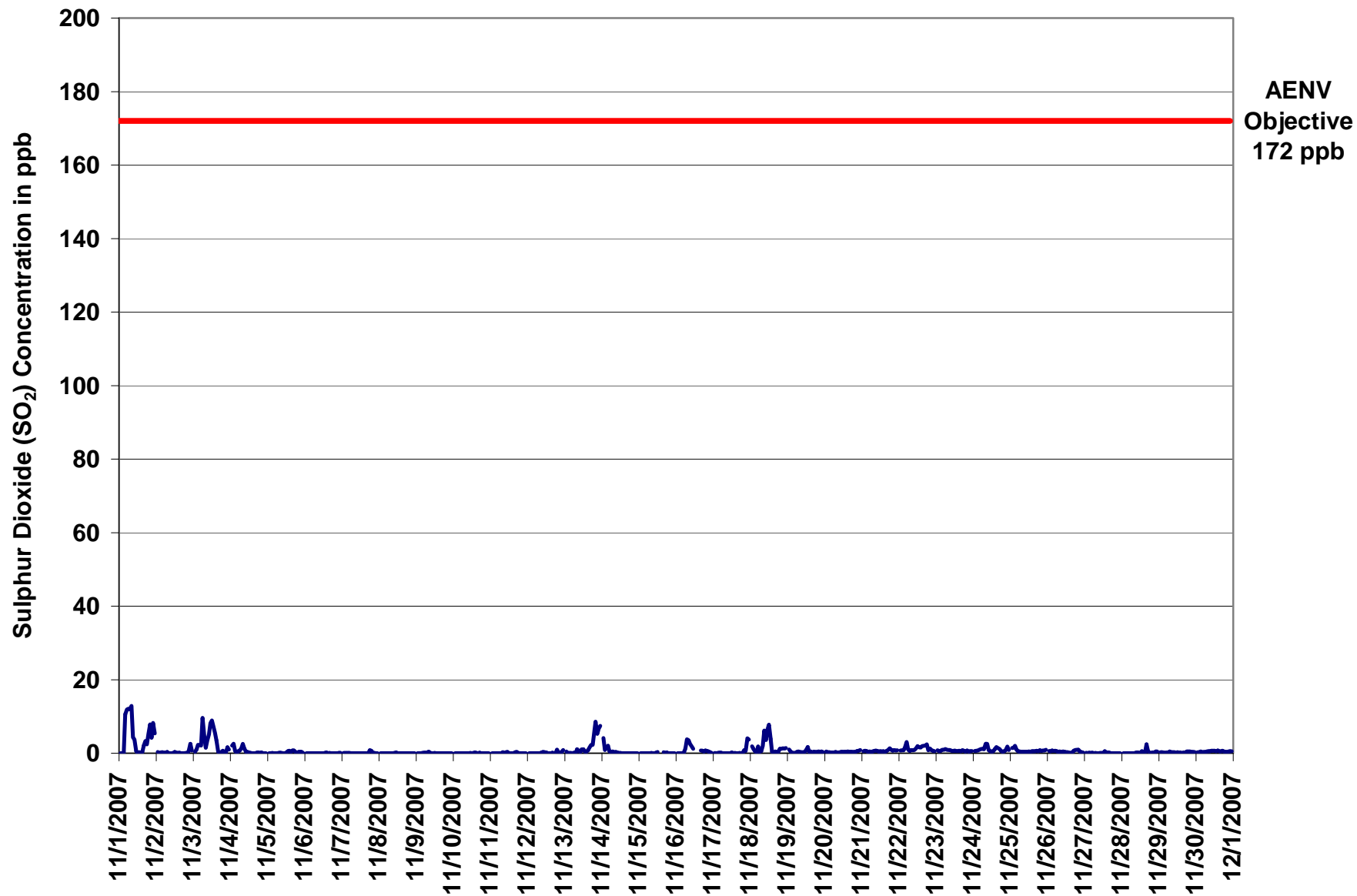


Figure 56. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

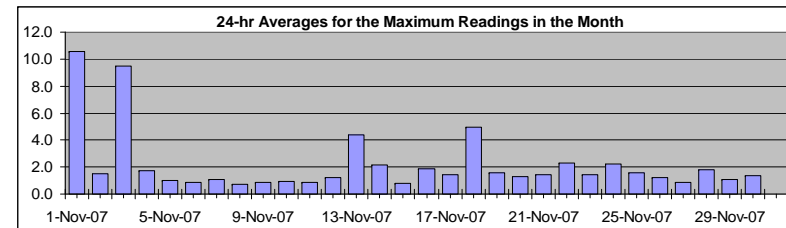
Sulphur Dioxide (SO₂)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	29.1	ppb	3-Nov	6:00 7:00
Maximum 24-hr Value:	10.5	ppb	1-Nov	

AIC Time:	30 hrs	Operational Time:	683 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.7	8.8	1.5	1.1	1.0	0.4	0.0	2.2 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	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-Nov-07	A	1	1	0	21	19	17	19	12	11	2	1	1	1	2	7	6	7	19	16	17	24	18	10.5	23.8	
2-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	4	1.5	8.9	
3-Nov-07	A	1	2	4	4	15	29	12	7	11	21	21	25	15	17	19	1	2	1	1	3	3	3	9.5	29.1	
4-Nov-07	A	4	4	3	1	1	2	3	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	6.0	
5-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1.0	1.8	
6-Nov-07	A	0	0	1	1	1	1	1	1	1	2	1	1	1	1	3	1	0	1	1	1	1	1	0.9	2.6	
7-Nov-07	A	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	3	3	3	1	1	1	1.1	3.0	
8-Nov-07	A	0	0	0	0	0	0	1	1	1	1	2	1	0	1	1	1	1	1	1	1	1	1	0.7	1.9	
9-Nov-07	A	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	0.8	1.1	
10-Nov-07	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	1	0	0	0	0.9	2.0	
11-Nov-07	A	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	2	1	1	1	1	1	1	0.9	2.0	
12-Nov-07	A	1	0	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	4	1	1	1	2	1.2	4.0	
13-Nov-07	A	1	1	1	1	1	1	1	2	2	1	2	2	1	1	2	2	4	5	11	20	10	13	4.3	20.4	
14-Nov-07	A	13	2	6	11	2	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	1	0	2.2	13.1	
15-Nov-07	A	1	1	1	1	1	1	1	1	1	1	2	P	P	P	1	1	1	1	1	1	0	0	0.8	1.7	
16-Nov-07	A	1	1	1	1	1	3	5	5	4	3	2	C	C	C	C	1	2	1	1	1	2	1	1.8	4.8	
17-Nov-07	A	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	6	5	1.4	6.0	
18-Nov-07	A	3	2	1	1	5	1	2	5	12	8	12	23	16	1	1	2	1	1	3	3	4	3	5.0	23.4	
19-Nov-07	A	3	2	1	1	1	1	1	1	1	1	3	8	1	2	1	1	1	1	1	1	1	1	1.6	8.1	
20-Nov-07	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1.3	1.9	
21-Nov-07	A	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	2	1	2	2	1	1.5	2.3	
22-Nov-07	A	1	1	1	3	6	1	1	1	1	1	2	3	3	3	3	4	3	3	1	3	1	1	2.3	6.3	
23-Nov-07	A	2	1	1	2	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.4	2.2	
24-Nov-07	A	1	1	2	2	2	2	2	6	4	2	1	1	1	2	3	3	2	1	1	2	3	2	2.2	6.3	
25-Nov-07	A	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.6	4.3	
26-Nov-07	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	3	2	1	1	1	1.2	2.5	
27-Nov-07	A	1	1	1	1	1	1	0	1	0	1	1	1	2	1	1	1	0	0	0	0	0	0	0.9	1.7	
28-Nov-07	A	0	0	0	0	0	0	0	1	1	0	0	1	4	1	1	17	2	0	1	1	1	1	1.8	17.3	
29-Nov-07	A	0	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	2	2	2	2	1	1	1.1	1.5	
30-Nov-07	A	1	1	1	2	1	1	2	2	2	2	2	2	2	3	2	2	2	1	2	1	2	2	1.4	2.6	
Hourly Avg	N	1.6	1.2	1.4	2.2	2.5	2.6	2.2	2.5	2.4	2.3	2.3	2.9	2.5	1.8	1.9	2.1	1.6	1.5	2.3	2.3	2.1	2.9	2.3		
Hourly Max	0.0	13.1	4.0	6.3	20.7	21.1	29.1	17.1	18.8	12.1	20.9	21.1	25.1	16.0	17.1	19.1	17.3	6.0	6.8	18.8	20.4	17.1	23.8	18.1		

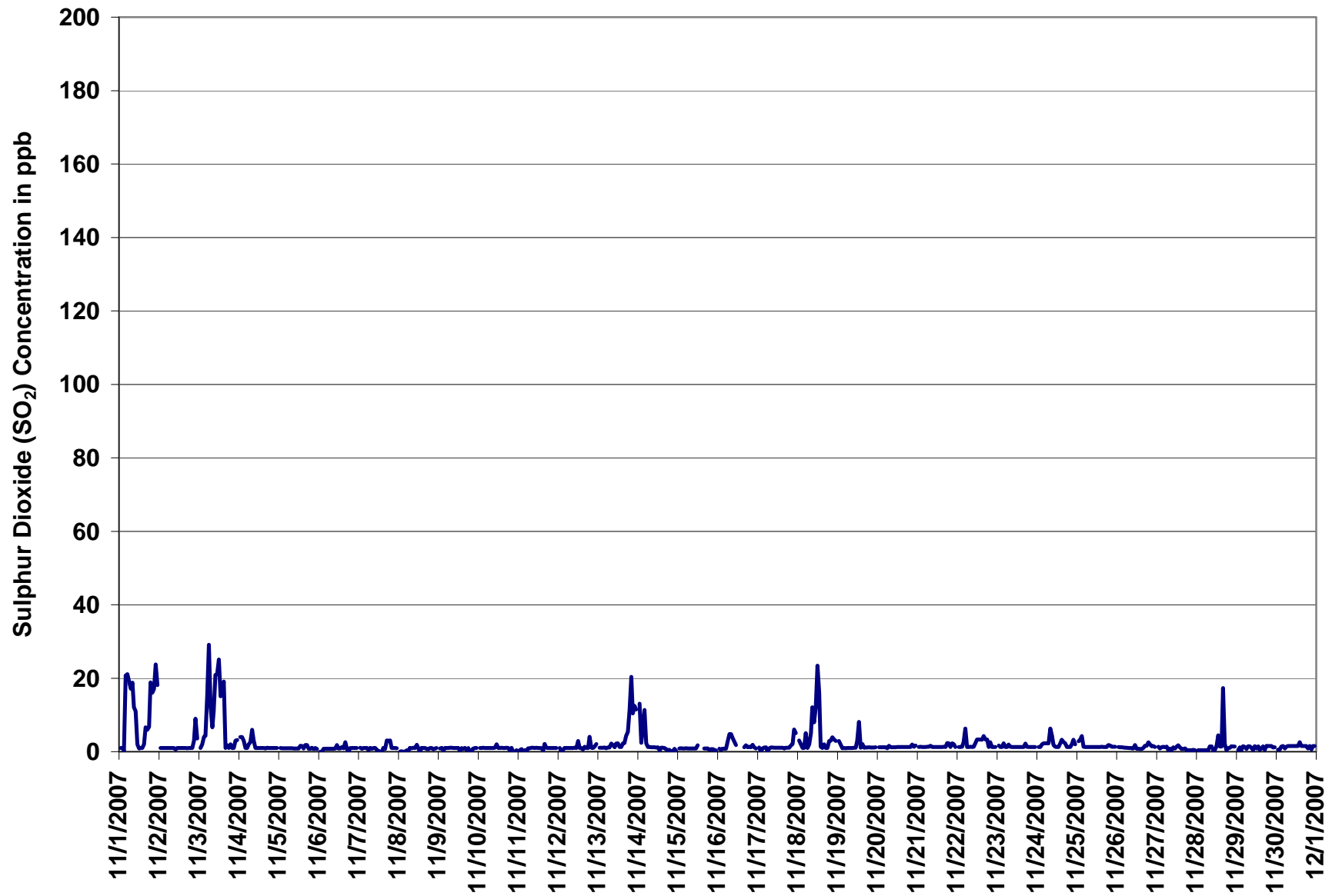
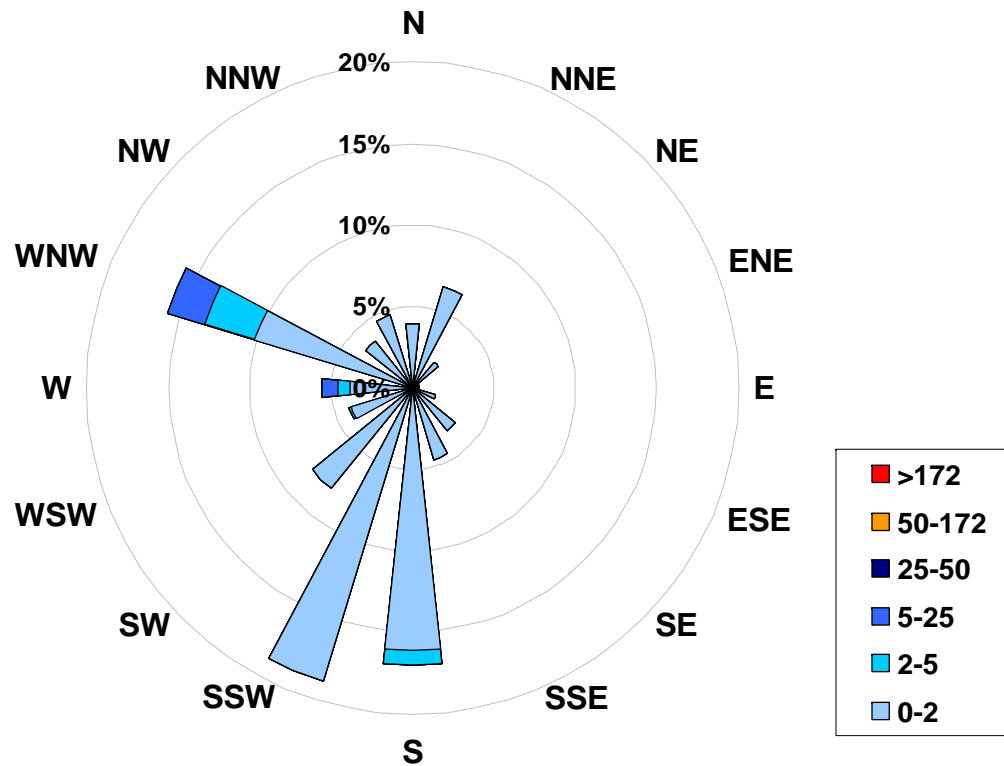


Figure 57. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for November 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	626	
2	to 5	34	
5	to 25	23	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			683

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

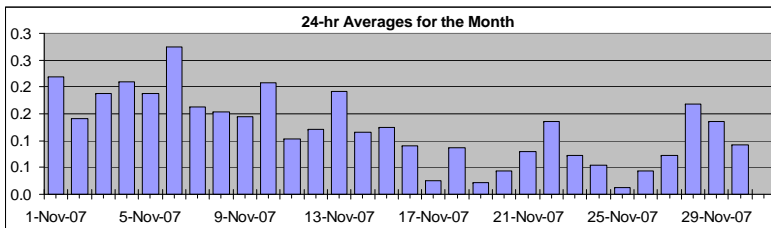
Hydrogen Sulphide (H₂S)

Monitoring Dates: November 1, 2007 to December 1, 2007

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:	1.2 ppb 6-Nov 16:00 17:00
Maximum 24-hr Value:	0.3 ppb 6-Nov

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.1 ppb	0.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.5
2-Nov-07	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
3-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
4-Nov-07	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
5-Nov-07	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-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	1.2
7-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
8-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
9-Nov-07	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	0.5
10-Nov-07	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
11-Nov-07	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
12-Nov-07	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
13-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.8
14-Nov-07	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-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	P	P	P	0	0	0	0	0	0	0	0	0	0.1	0.2
16-Nov-07	A	0	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
18-Nov-07	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	0.4
19-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
20-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
21-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
22-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	1.0
23-Nov-07	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
24-Nov-07	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
25-Nov-07	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
26-Nov-07	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
27-Nov-07	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-Nov-07	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	0.5
29-Nov-07	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
30-Nov-07	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
Hourly Avg	N	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	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
Hourly Max	0.0	0.3	0.3	0.3	0.4	0.3	0.3	0.6	0.7	0.4	0.3	0.2	0.2	0.2	0.3	0.3	1.2	0.5	0.4	0.8	0.4	0.5	0.5	1.0	0.5	1.0	

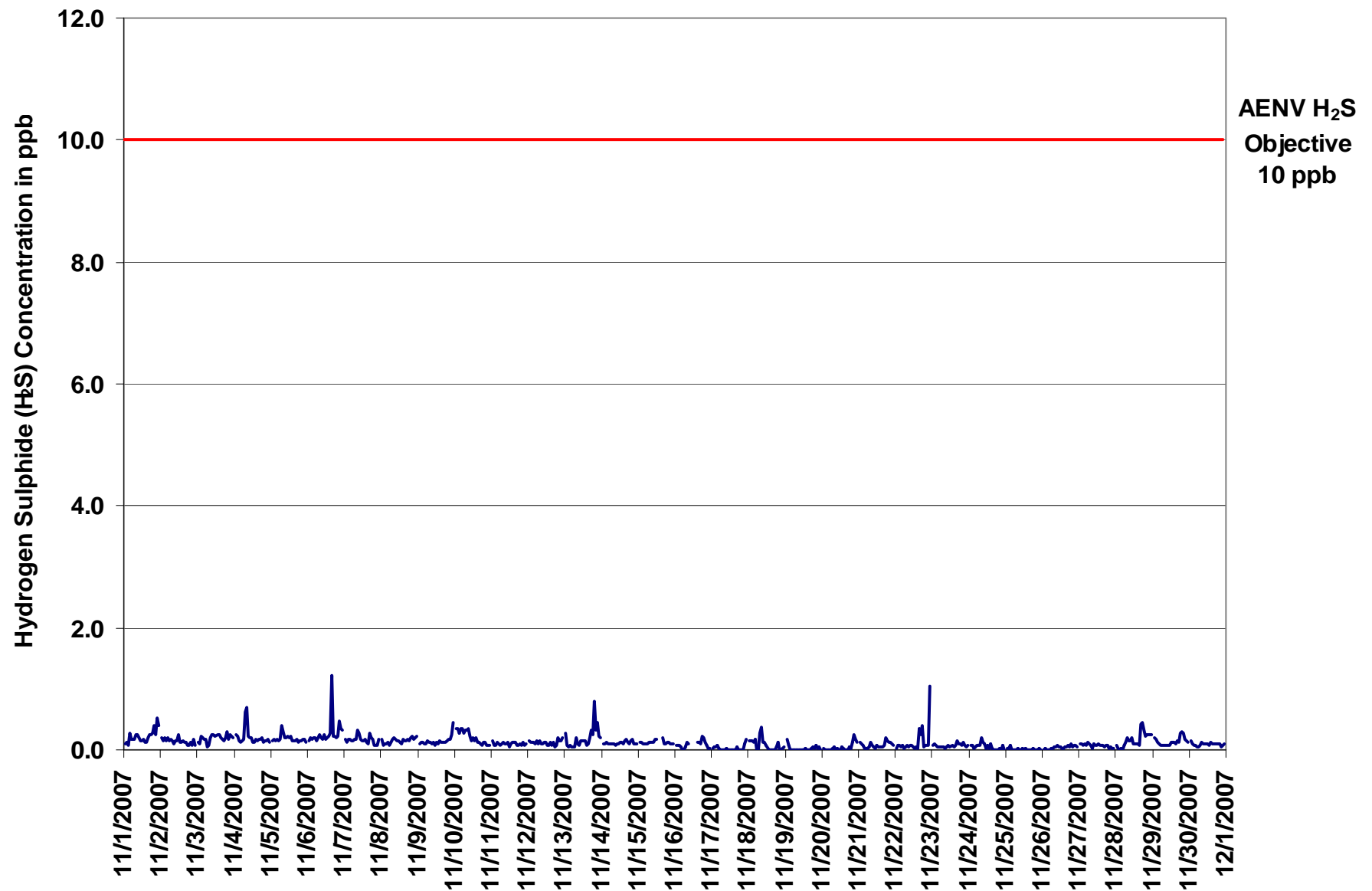


Figure 58. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

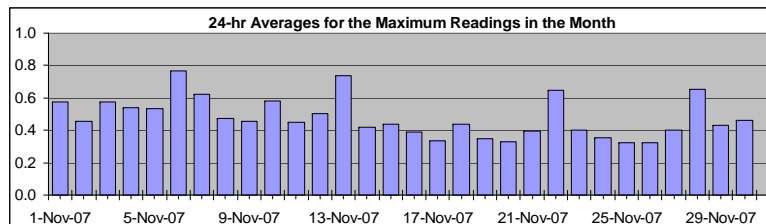
Hydrogen Sulphide (H₂S)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Value:	4.8 ppb	6-Nov	16:00 17:00
Maximum 24-hr Value:	0.8 ppb	6-Nov	

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.8	0.5	0.4	0.3	0.3	0.2	0.5 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	24-hour Average	Daily Maximum
1-Nov-07	A	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0.6	0.9
2-Nov-07	A	1	1	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6
3-Nov-07	A	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	0	0	1	0	1	1	1	1	0.6	0.9
4-Nov-07	A	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	1.2
5-Nov-07	A	0	0	0	0	0	1	1	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0.5	1.1
6-Nov-07	A	1	0	0	0	0	1	0	1	1	0	0	0	0	1	1	1	5	0	1	1	1	1	1	1	1	0.8	4.8
7-Nov-07	A	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	2	1	1	0	0	0	0	0	0.6	2.4
8-Nov-07	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0.5	0.7
9-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	1	1	0.5	0.8
10-Nov-07	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0.6	1.5
11-Nov-07	A	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.4	1.2
12-Nov-07	A	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	2	1	1	1	0.5	1.6
13-Nov-07	A	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0.7	3.9
14-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.4	0.7
15-Nov-07	A	0	0	0	0	0	1	1	0	0	0	0	0	0	P	P	P	1	0	0	0	0	0	0	0	0	0.4	0.5
16-Nov-07	A	0	0	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.4	0.5
17-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.7
18-Nov-07	A	0	1	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0.4	0.9
19-Nov-07	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
20-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.3	0.5
21-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0.4	0.9
22-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	4	0.6	4.5
23-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	1.4
24-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.5
25-Nov-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
26-Nov-07	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	0.5
27-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.4	1.0
28-Nov-07	A	0	0	0	0	0	0	0	1	1	0	1	1	0	0	1	0	3	1	1	1	1	1	1	1	1	0.7	3.4
29-Nov-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0.4	0.7
30-Nov-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0.5	1.5
Hourly Avg	N	0.6	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6		
Hourly Max	0.0	3.9	0.7	0.8	1.2	0.9	0.6	1.2	1.1	1.1	0.8	0.6	0.6	1.0	0.7	0.7	4.8	2.4	1.0	1.3	1.5	1.6	0.9	4.5	4.5			

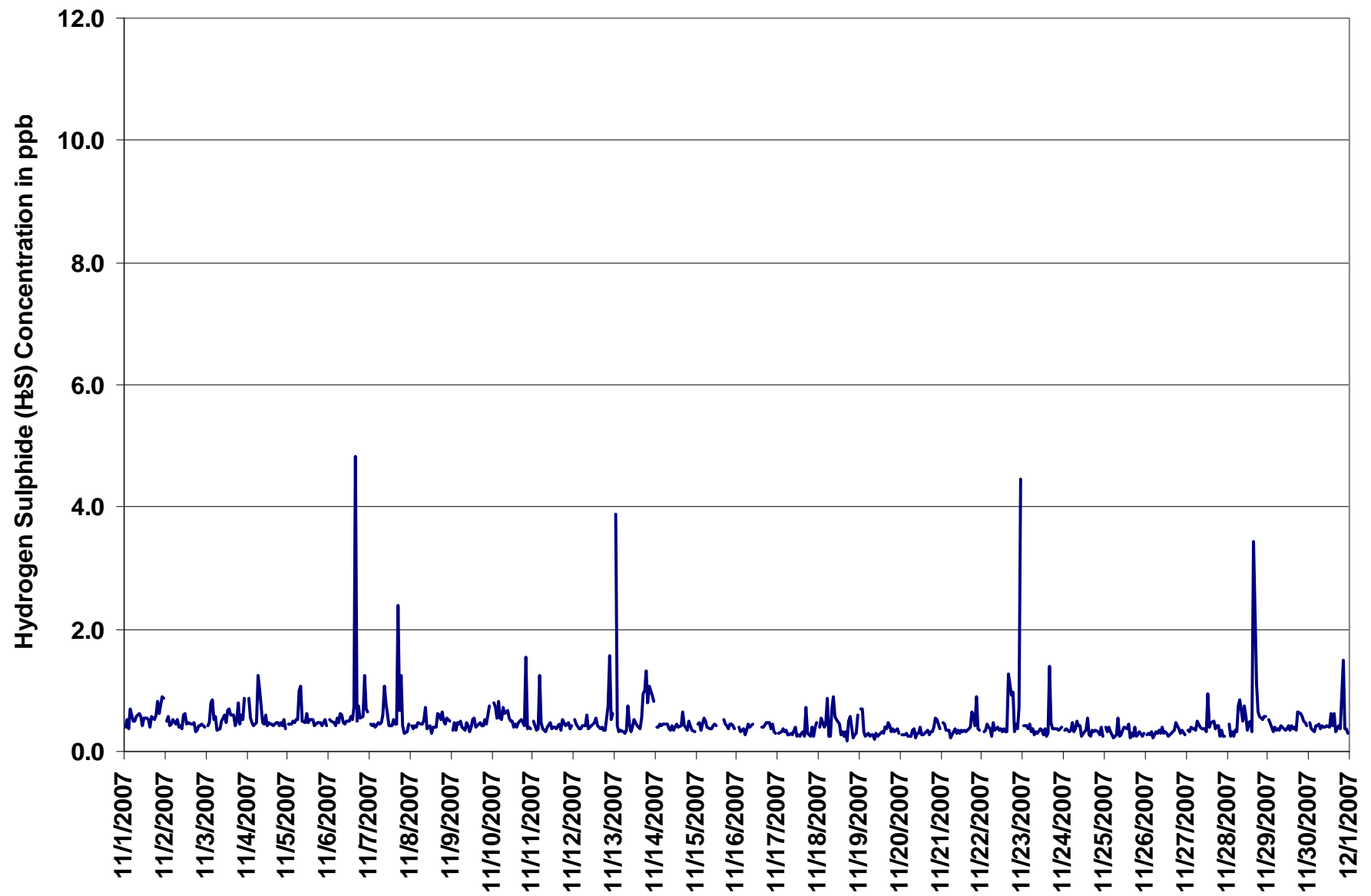
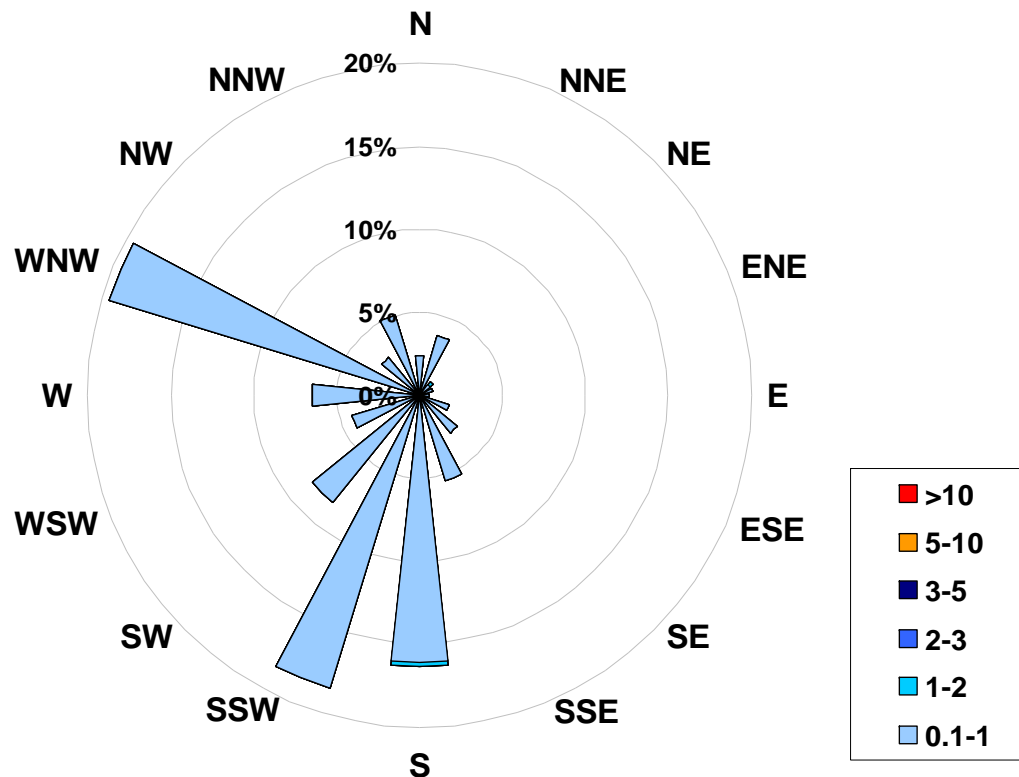


Figure 59. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for November 2007



Calms: 0%

Frequency Distribution of H ₂ S in ppb Range			Frequency (hrs)
0.1	<	1	680
1	to	2	2
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			682

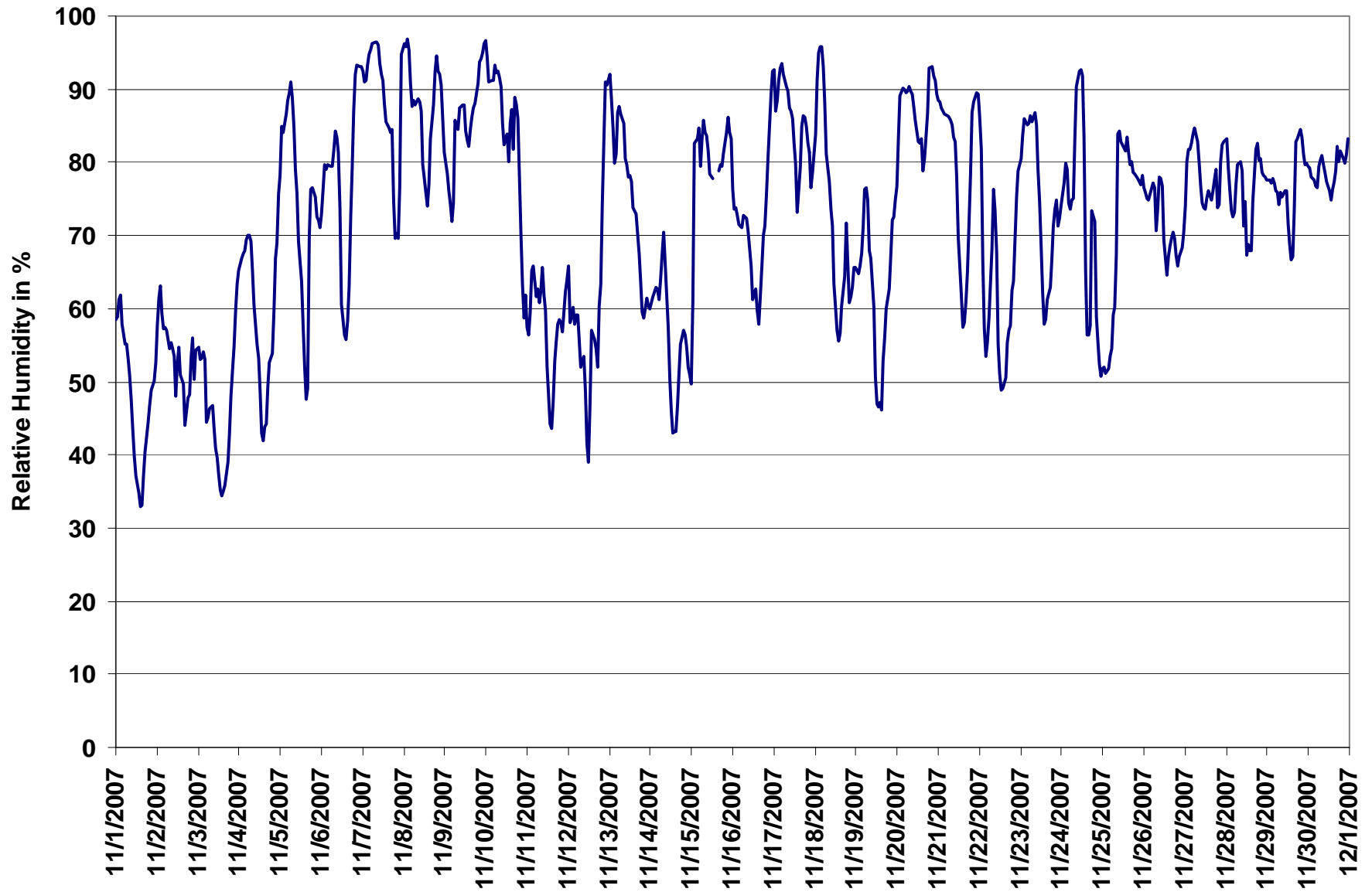


Figure 60. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

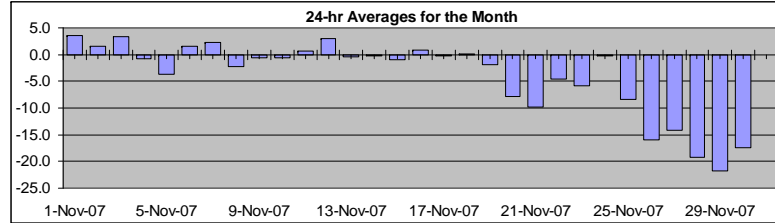
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	7.1 °C	6-Nov	13:00 14:00
Maximum 24-hr Value:	3.5 °C	1-Nov	



AIC Time:	0 hrs	Operational Time:	717 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.5	4.6	0.9	-1.1	-7.7	-19.1	-26.4	-4.0 °C	-1.1 °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		
1-Nov-07	3	3	2	2	2	3	3	2	2	3	4	5	5	6	6	7	5	4	4	3	3	2	2	1	3.5	6.5
2-Nov-07	0	-1	-2	-2	-1	-1	-1	0	-1	0	1	2	3	4	4	4	5	4	3	3	2	3	6	5	1.6	5.6
3-Nov-07	5	4	4	4	3	3	3	2	2	3	4	4	5	5	5	5	4	3	3	2	2	1	1	3.4	5.2	
4-Nov-07	1	0	0	0	-1	-2	-2	-2	-2	-2	0	1	1	2	2	2	1	0	-1	-1	-3	-4	-5	-6	-0.8	2.3
5-Nov-07	-6	-7	-7	-7	-8	-8	-9	-9	-8	-6	-4	-3	-2	-1	0	0	1	-1	-1	-1	-1	-1	-1	0	-3.7	0.5
6-Nov-07	0	0	0	0	0	0	0	0	-1	0	1	4	7	7	7	7	6	4	2	0	-1	-1	-2	-2	1.6	7.1
7-Nov-07	-2	-2	-1	-1	-1	-1	-1	0	0	0	2	3	4	4	5	5	5	5	6	7	6	6	5	2	2.3	6.7
8-Nov-07	1	0	-2	-2	-2	-3	-3	-4	-4	-4	-3	-2	-1	0	0	0	-1	-2	-3	-4	-4	-5	-4	-2.3	1.1	
9-Nov-07	-3	-2	-2	-1	0	0	-1	-1	-1	-1	0	0	0	0	1	1	1	0	0	0	-1	-1	-2	-2	-0.6	0.7
10-Nov-07	-3	-2	-2	-3	-3	-4	-4	-4	-4	-3	-1	0	1	2	2	2	2	1	1	1	2	2	1	0	-0.6	2.2
11-Nov-07	1	1	1	-1	-1	0	-1	-1	-2	-2	-1	0	2	5	5	4	3	2	2	1	1	1	0	-1	0.7	4.8
12-Nov-07	-1	0	0	0	1	2	3	3	2	2	3	6	7	7	6	5	5	5	4	4	5	3	1	1	3.0	7.0
13-Nov-07	1	0	0	-1	-2	-2	-3	-2	-2	-2	-2	-1	-1	-1	0	1	1	1	1	1	1	1	0	0	-0.5	1.3
14-Nov-07	0	-1	-1	-1	-1	-1	-2	-2	-3	-3	-1	1	2	3	3	2	1	0	-1	-1	-1	-1	-1	-1	-0.3	2.9
15-Nov-07	0	-1	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	0	P	P	P	0	0	0	0	0	-1	0	0	-0.9	0.3
16-Nov-07	0	0	0	-1	-1	-1	-1	-1	0	0	1	1	3	2	3	4	3	2	1	1	1	0	0	0	0.8	4.1
17-Nov-07	0	-1	-1	-1	-2	-2	-1	-1	-1	-1	-1	0	1	2	3	2	1	0	0	0	0	-1	0	0	-0.2	3.3
18-Nov-07	-1	-1	-1	-1	-1	0	1	1	1	0	1	1	2	2	2	1	1	0	-2	0	0	0	-1	-1	0.2	2.2
19-Nov-07	-1	-1	-2	-2	-3	-4	-4	-3	-3	-3	-2	0	1	1	1	1	0	-1	-2	-3	-3	-4	-4	-4	-1.9	1.5
20-Nov-07	-5	-6	-7	-7	-8	-8	-8	-8	-8	-8	-7	-7	-6	-6	-6	-6	-6	-6	-7	-7	-9	-10	-12	-13	-7.9	-5.3
21-Nov-07	-14	-14	-14	-14	-13	-13	-13	-13	-14	-14	-12	-10	-7	-4	-3	-3	-3	-4	-6	-7	-8	-9	-10	-11	-9.8	-2.5
22-Nov-07	-11	-10	-7	-4	-3	-3	-4	-7	-10	-10	-8	-3	-1	0	0	-1	-1	-2	-3	-4	-5	-6	-8	-4.6	0.3	
23-Nov-07	-8	-9	-10	-10	-10	-10	-10	-10	-11	-11	-9	-6	-4	-2	-1	0	-1	-1	-2	-3	-3	-4	-4	-3	-5.9	-0.5
24-Nov-07	-4	-4	-5	-5	-4	-4	-4	-4	1	1	1	1	1	2	3	4	3	3	1	1	1	1	1	1	-0.3	3.5
25-Nov-07	1	1	1	0	0	0	-1	-1	-2	-7	-8	-8	-10	-11	-12	-13	-14	-15	-16	-16	-17	-17	-18	-18	-8.4	1.0
26-Nov-07	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-14	-13	-14	-14	-14	-14	-14	-14	-14	-16.0	-13.4
27-Nov-07	-14	-15	-15	-15	-15	-14	-15	-15	-15	-15	-15	-15	-15	-15	-14	-13	-13	-13	-13	-13	-14	-14	-15	-15	-14.2	-12.9
28-Nov-07	-15	-17	-19	-19	-19	-19	-20	-21	-21	-21	-19	-19	-16	-15	-14	-14	-15	-18	-20	-22	-23	-25	-25	-26	-19.3	-13.8
29-Nov-07	-27	-27	-26	-26	-26	-28	-28	-29	-29	-28	-26	-22	-17	-13	-11	-11	-12	-15	-17	-19	-20	-20	-20	-21	-21.7	-10.8
30-Nov-07	-22	-23	-24	-24	-25	-26	-24	-21	-19	-16	-15	-14	-13	-13	-13	-13	-13	-13	-14	-14	-14	-14	-15	-15	-17.4	-13.0
Hourly Avg	-4.8	-5.1	-5.3	-5.4	-5.4	-5.5	-5.6	-5.8	-5.8	-5.5	-4.6	-3.3	-2.1	-1.3	-0.9	-1.0	-1.6	-2.3	-3.1	-3.6	-4.0	-4.4	-4.7	-5.2		
Hourly Max	4.6	4.3	3.9	3.5	3.2	3.4	3.0	2.7	2.4	2.9	3.9	5.6	7.0	7.1	6.9	6.5	5.6	5.0	6.2	6.7	6.3	6.3	5.6	5.2		

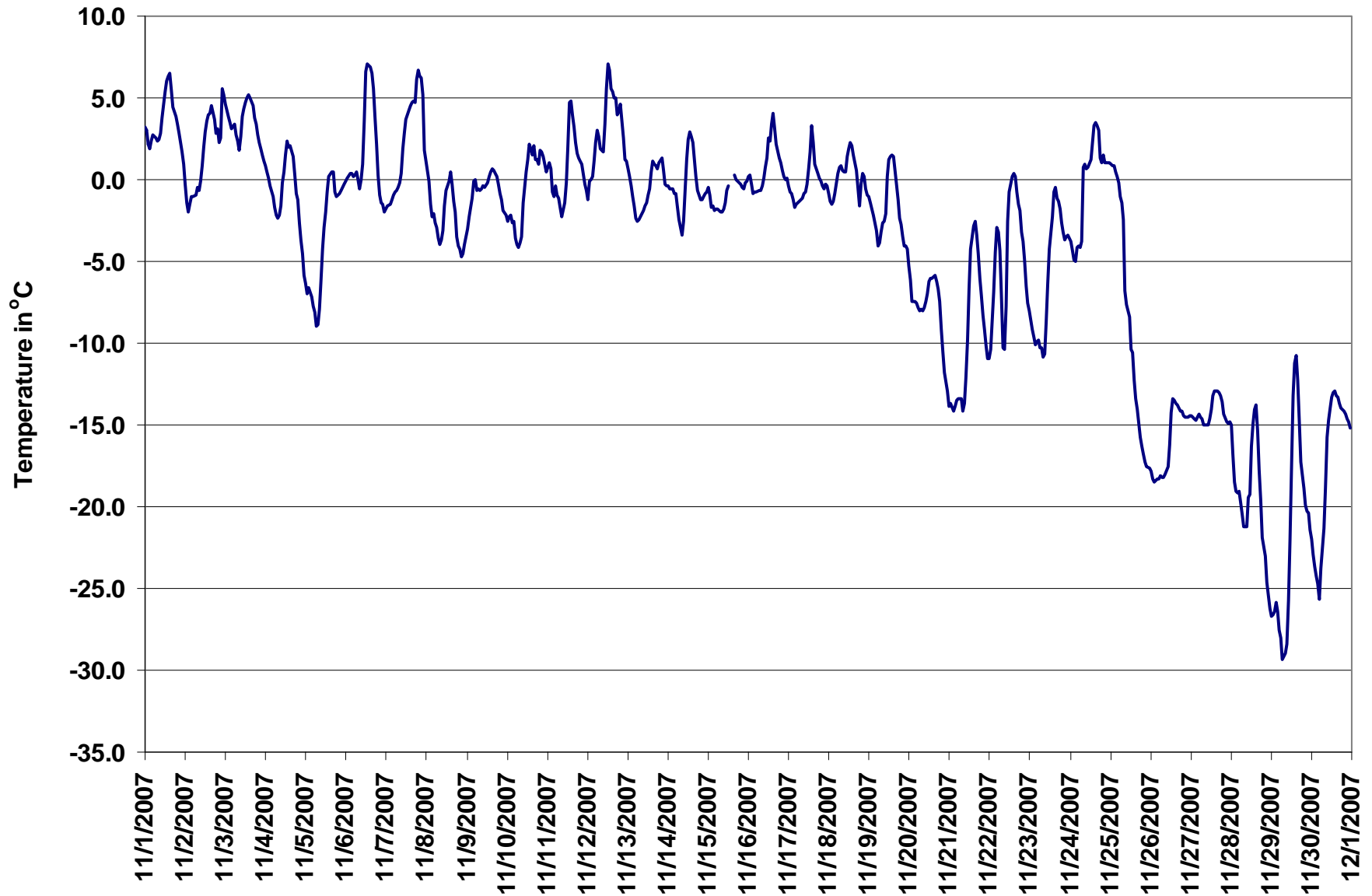


Figure 61. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

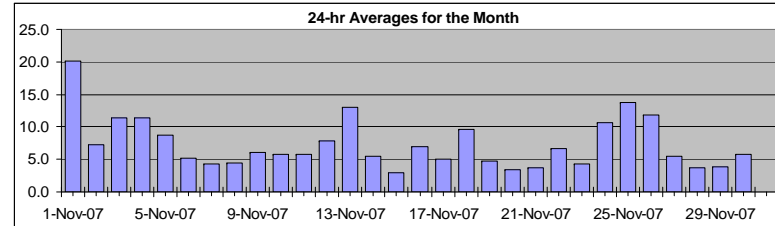
Wind Speed (WSs)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	28.5	km/hr	1-Nov	10:00 11:00
Maximum 24-hr Value:	20.1	km/hr	1-Nov	

Calm Time:	0 hrs	0% calms	Operational Time:	717 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	AverageS
	25.1	18.7	9.9	5.4	3.5	1.9	1.2	7.3 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	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-Nov-07	9	10	8	11	17	21	19	20	22	25	29	27	26	25	26	26	25	22	24	22	20	20	16	10	20.1	28.5	
2-Nov-07	6	5	5	6	7	6	6	6	7	7	7	6	4	6	9	11	8	7	6	5	4	8	17	17	7.3	17.4	
3-Nov-07	18	17	16	14	16	19	12	11	5	11	17	16	13	13	11	5	5	6	6	6	6	7	11	10	11.3	18.8	
4-Nov-07	10	12	13	11	9	10	11	14	14	11	13	14	19	21	23	19	17	8	5	6	3	3	2	3	11.3	23.2	
5-Nov-07	4	3	4	3	2	1	2	3	2	4	5	9	11	14	14	12	15	16	15	16	16	11	10	8.7	16.2		
6-Nov-07	6	8	8	8	6	10	7	3	4	4	4	4	6	11	8	4	2	2	3	2	3	2	3	4	5.1	10.5	
7-Nov-07	3	2	3	3	3	3	3	3	1	2	5	7	4	7	5	5	4	4	8	9	6	4	4	5	4.3	8.8	
8-Nov-07	5	8	11	8	12	12	8	8	3	2	2	2	3	4	2	2	2	1	1	2	1	1	1	4	4.5	12.3	
9-Nov-07	9	10	9	7	10	11	10	9	8	6	8	10	9	7	5	2	2	2	1	3	2	2	1	2	6.0	10.7	
10-Nov-07	1	2	2	2	3	2	2	2	2	2	2	3	2	5	26	17	5	6	6	5	11	14	11	6	5.8	25.8	
11-Nov-07	9	11	8	5	8	5	6	7	7	6	8	6	6	7	6	6	5	5	5	3	4	5	2	2	5.8	10.7	
12-Nov-07	3	2	2	4	4	5	3	5	5	5	11	14	14	12	10	5	6	6	5	4	11	11	19	24	7.9	23.7	
13-Nov-07	18	20	24	22	19	17	14	12	12	13	10	11	9	9	12	13	9	10	7	12	14	11	6	9	13.1	24.4	
14-Nov-07	8	7	10	9	9	11	8	4	3	4	4	4	5	5	4	3	3	3	2	2	4	5	7	6	5.4	11.2	
15-Nov-07	4	5	3	2	2	2	2	3	3	3	4	4	3	P	P	P	2	3	3	1	4	3	2	2	2.9	4.9	
16-Nov-07	6	6	6	5	8	13	10	12	9	9	10	11	11	7	6	5	6	3	3	3	4	5	6	4	7.0	12.8	
17-Nov-07	6	4	3	2	4	3	4	5	5	4	3	4	3	2	5	10	6	4	5	5	6	8	12	9	5.0	12.4	
18-Nov-07	8	4	4	3	3	14	17	14	13	10	11	14	14	15	20	14	7	3	2	7	9	8	9	6	9.6	19.7	
19-Nov-07	6	7	7	6	5	3	3	3	4	4	5	4	5	9	9	7	6	4	4	1	2	3	2	5	4.8	8.9	
20-Nov-07	6	6	6	4	4	5	5	4	3	2	2	2	1	2	4	9	5	2	1	2	2	2	3	2	3.5	8.7	
21-Nov-07	2	3	2	2	3	3	4	3	3	4	3	4	5	4	3	4	4	3	4	4	5	5	5	5	3.6	5.4	
22-Nov-07	6	6	5	4	5	5	5	4	6	6	5	7	14	15	14	11	7	8	7	3	4	4	4	5	6.7	14.5	
23-Nov-07	3	2	4	5	6	4	5	5	4	4	5	6	7	6	4	4	3	2	4	3	5	4	4	4	4.3	7.0	
24-Nov-07	4	4	3	4	4	5	4	6	17	10	9	9	3	6	15	19	19	19	16	8	13	17	20	22	10.6	21.9	
25-Nov-07	15	16	18	17	14	10	4	9	7	11	11	13	15	14	17	16	17	18	17	16	18	15	13	10	13.7	18.5	
26-Nov-07	10	11	8	6	3	3	5	8	8	7	9	10	13	19	19	16	16	16	16	17	19	16	15	13	11.8	19.4	
27-Nov-07	12	6	5	6	4	2	2	5	6	8	5	5	4	3	7	7	5	4	6	11	10	5	2	1	5.5	12.5	
28-Nov-07	5	13	11	9	6	2	2	2	2	2	2	1	2	2	3	1	3	2	2	3	3	3	4	4	3.7	12.5	
29-Nov-07	4	4	3	5	4	5	5	5	4	6	4	5	4	4	2	2	3	4	3	2	3	4	4	2	3.8	5.8	
30-Nov-07	2	4	5	5	5	3	3	3	4	5	9	9	5	10	9	7	9	8	9	5	4	4	4	4	5.7	9.8	
1-hr Average	7.0	7.3	7.1	6.6	6.8	7.2	6.4	6.7	6.5	6.5	7.4	8.0	8.1	9.1	10.3	9.0	7.6	6.8	6.5	6.3	7.1	7.2	7.4	7.0			
Hourly Max	18.5	19.6	24.4	22.3	18.8	21.1	18.9	20.4	22.2	25.2	28.5	27.2	26.3	25.2	26.3	26.0	24.9	22.0	24.1	22.4	19.8	19.7	20.1	23.7			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

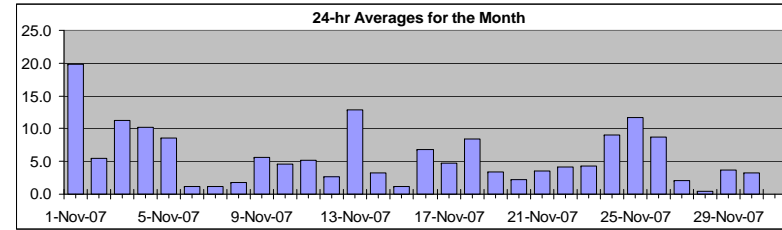
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Maximum 1-hr Average:	28.3	km/hr	1-Nov	10:00 11:00
Maximum 24-hr Value:	19.8	km/hr	1-Nov	



Calm Time:	0 hrs	0% calms	Operational Time:	717 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	AverageV
	24.9	18.5	9.8	5.2	3.2	1.3	0.3	10.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Nov-07	9	10	8	11	17	21	19	20	22	25	28	27	26	25	26	26	25	22	24	22	20	20	16	10	19.8	28.3	
2-Nov-07	6	5	5	6	7	6	6	6	7	7	7	6	3	6	9	11	8	6	6	5	4	5	17	17	5.4	17.1	
3-Nov-07	18	17	16	14	16	19	12	11	4	11	17	16	13	13	10	5	5	6	6	6	7	11	10	11.2	18.6		
4-Nov-07	10	12	13	11	9	10	11	14	14	11	12	14	19	21	23	18	17	7	5	6	2	2	2	3	10.2	23.0	
5-Nov-07	4	3	4	3	2	1	2	3	1	4	5	9	11	14	14	12	15	15	15	16	16	16	11	9	8.6	16.2	
6-Nov-07	6	8	8	8	6	10	7	2	1	4	4	4	6	10	8	4	2	2	2	2	3	1	3	4	1.2	10.3	
7-Nov-07	3	2	2	3	3	3	3	3	0	2	5	7	4	7	5	5	4	3	7	9	6	4	3	5	1.2	8.6	
8-Nov-07	5	8	11	8	12	12	8	8	2	0	2	2	3	4	2	2	2	1	0	2	1	1	0	4	1.8	11.9	
9-Nov-07	9	10	8	7	10	10	9	9	8	6	7	10	9	7	5	2	2	1	0	1	2	2	1	1	5.6	10.4	
10-Nov-07	0	2	2	2	0	1	1	2	1	1	2	2	1	4	26	16	4	6	6	4	11	14	11	5	4.5	25.5	
11-Nov-07	9	11	8	5	8	5	5	7	6	6	8	6	6	7	6	5	5	4	5	3	4	4	2	2	5.2	10.6	
12-Nov-07	3	2	1	2	2	2	2	5	5	5	11	14	13	12	10	4	5	5	4	3	11	11	19	24	2.6	23.5	
13-Nov-07	18	19	24	22	19	17	14	12	12	13	10	11	9	9	11	12	9	10	7	12	14	11	6	8	12.9	24.2	
14-Nov-07	8	6	10	9	9	11	8	4	3	4	4	3	4	4	4	3	3	3	2	2	3	5	7	5	3.3	11.2	
15-Nov-07	4	4	1	1	2	2	2	3	3	3	4	4	3	P	P	1	3	3	1	3	3	0	2	1.2	4.3		
16-Nov-07	6	5	6	5	8	13	10	11	9	8	10	11	11	7	6	4	5	1	2	3	4	5	6	4	6.9	12.7	
17-Nov-07	6	4	1	2	3	3	4	4	4	3	3	3	2	2	5	10	6	4	5	4	6	8	12	9	4.8	12.3	
18-Nov-07	8	4	4	3	3	14	17	14	13	9	11	13	14	15	19	14	6	2	2	7	9	8	9	6	8.4	19.4	
19-Nov-07	6	7	7	6	5	3	3	3	4	4	5	4	4	8	8	7	6	4	4	0	1	3	0	5	3.5	8.5	
20-Nov-07	5	6	5	4	4	5	4	4	3	1	2	1	1	2	4	9	5	1	1	2	2	1	3	2	2.1	8.6	
21-Nov-07	2	2	2	2	3	3	4	3	3	4	3	4	4	4	3	4	4	3	4	4	5	5	5	5	3.5	5.3	
22-Nov-07	5	6	5	3	5	4	5	4	6	6	5	5	14	14	14	11	6	8	7	3	4	3	3	4	4.1	14.4	
23-Nov-07	3	2	4	4	6	4	5	5	4	4	5	6	7	5	4	4	3	2	4	3	5	4	4	4	4.3	6.9	
24-Nov-07	4	4	3	3	4	4	4	6	16	10	8	9	2	6	15	19	19	19	15	8	12	17	20	22	9.0	21.8	
25-Nov-07	15	16	17	17	14	10	4	9	7	11	11	13	15	14	17	15	17	18	17	16	18	15	13	10	11.7	18.4	
26-Nov-07	10	11	8	6	3	3	5	8	8	7	9	9	13	19	18	16	16	16	16	17	19	16	15	13	8.7	19.2	
27-Nov-07	12	6	5	6	4	2	2	4	6	8	5	5	4	3	7	7	5	4	6	11	10	5	2	1	2.1	12.3	
28-Nov-07	5	12	11	8	6	2	2	2	2	1	2	1	1	1	3	1	3	2	2	3	3	3	4	4	0.5	12.4	
29-Nov-07	4	4	3	4	4	4	5	5	4	6	4	5	4	4	2	2	3	4	3	2	3	4	4	0	3.6	5.7	
30-Nov-07	2	4	5	5	5	3	3	3	2	5	9	9	5	10	9	7	8	8	9	5	4	4	4	4	3.3	9.6	
1-hr Vector	3.1	3.1	3.3	3.2	3.7	3.6	3.1	3.0	3.3	3.4	3.6	3.7	3.6	3.7	4.3	3.9	2.4	2.3	2.3	2.7	3.4	3.6	3.7	3.2			
Hourly Max	18.3	19.4	24.2	22.1	18.6	21.0	18.8	20.3	22.0	25.0	28.3	27.0	26.0	24.9	26.0	25.8	24.7	21.9	24.0	22.3	19.7	19.6	20.0	23.5			

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2007 to December 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	717 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%			
Percentile	99	95	75	50	25	5	1
	88.3	63.4	21.5	11.9	8.6	6.1	4.9

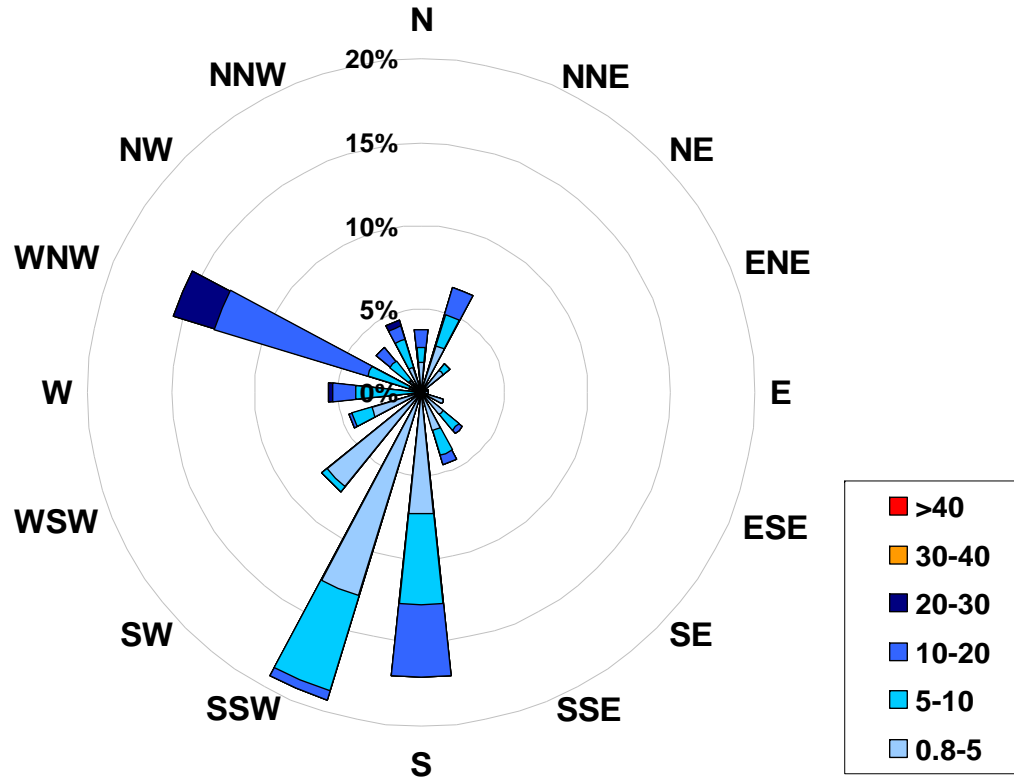
Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start 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	Daily Maximum
1-Nov-07	10	11	13	8	7	7	6	7	7	6	7	7	9	9	8	7	6	5	6	6	5	7	9	13.4	
2-Nov-07	18	13	14	8	6	9	12	17	23	14	11	14	42	12	11	7	7	6	10	17	27	51	9	10	50.9
3-Nov-07	9	8	6	7	7	7	9	7	21	15	9	10	12	10	14	14	12	8	10	9	6	7	6	10	20.7
4-Nov-07	8	6	4	6	8	7	7	5	6	8	13	12	10	9	7	12	6	17	25	7	82	32	22	14	81.8
5-Nov-07	14	13	7	12	14	27	19	15	12	13	19	13	10	9	8	9	9	9	9	6	6	8	7	27.2	
6-Nov-07	12	9	9	7	13	6	10	59	83	11	14	14	48	12	12	16	62	39	51	46	28	49	23	15	83.1
7-Nov-07	40	18	33	25	24	42	12	42	90	21	12	9	13	11	21	9	11	39	20	11	11	11	52	26	90.1
8-Nov-07	16	16	10	10	22	11	8	13	59	81	29	40	36	19	45	15	13	29	70	20	24	39	81	12	81.2
9-Nov-07	9	10	14	13	10	13	11	12	11	13	15	13	10	10	21	47	34	44	95	63	20	42	70	72	95.2
10-Nov-07	91	65	68	45	90	57	60	80	64	56	30	64	88	28	9	18	35	12	9	23	7	6	9	14	90.7
11-Nov-07	11	7	11	8	9	10	10	6	15	9	6	11	11	11	11	9	11	15	10	19	9	11	23	14	23.3
12-Nov-07	10	10	51	63	55	70	67	15	10	7	6	13	17	13	12	37	38	64	21	63	19	17	9	7	69.6
13-Nov-07	8	9	7	8	10	9	7	8	9	7	9	7	9	8	8	6	13	11	16	7	8	8	13	9	16.2
14-Nov-07	8	11	5	7	7	6	10	11	9	8	19	24	25	21	11	32	14	14	28	26	23	10	7	12	31.7
15-Nov-07	14	36	83	89	31	56	24	33	16	14	15	20	30	P	P	P	38	17	9	49	45	28	92	46	91.9
16-Nov-07	12	14	11	14	7	8	8	10	9	10	8	11	9	16	12	14	22	64	18	27	16	13	28	22	64.3
17-Nov-07	14	23	72	42	19	20	12	17	23	20	18	22	36	42	31	8	10	17	14	15	9	8	7	9	72.3
18-Nov-07	8	12	11	21	31	12	8	7	7	10	11	10	12	14	9	9	17	53	32	12	7	8	8	16	53.4
19-Nov-07	8	8	7	10	9	16	17	14	13	15	15	25	28	21	10	11	12	31	21	81	86	23	82	12	86.0
20-Nov-07	14	10	7	15	14	12	14	17	19	30	31	55	66	29	22	9	10	79	35	19	19	20	6	6	78.6
21-Nov-07	13	21	10	8	9	5	8	19	8	6	7	11	11	12	9	9	11	25	5	7	12	15	5	4	24.6
22-Nov-07	20	11	22	34	31	49	22	44	9	29	13	65	7	7	7	6	26	11	10	39	23	28	25	6	64.8
23-Nov-07	24	22	15	7	7	10	4	7	4	5	7	8	6	7	9	8	16	35	9	6	5	5	6	4	34.9
24-Nov-07	7	7	8	9	10	8	15	12	14	9	14	11	37	38	9	7	6	7	10	13	13	8	6	5	37.5
25-Nov-07	8	6	7	6	9	13	22	16	13	8	8	8	6	7	5	9	6	6	7	6	5	7	8	7	22.4
26-Nov-07	9	8	11	17	45	27	19	13	13	10	9	12	11	9	12	10	10	11	10	10	7	9	9	9	44.9
27-Nov-07	10	10	10	9	12	19	23	21	15	11	19	19	25	27	13	11	21	17	10	9	15	16	26	23	27.4
28-Nov-07	23	9	9	9	11	51	34	22	20	50	40	62	90	70	25	50	21	25	22	23	26	23	14	6	89.9
29-Nov-07	17	21	10	8	15	21	8	11	12	11	7	7	11	13	21	14	7	18	9	19	10	7	20	88	88.2
30-Nov-07	35	10	12	13	14	20	47	25	88	23	13	14	17	9	9	8	22	8	8	25	17	8	20	57	87.7

Hourly Max	91	65	83	89	90	70	67	80	90	81	40	65	90	70	45	50	62	79	95	81	86	51	92	88
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for November 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	334
5	to	10	206
10	to	20	155
20	to	30	22
30	to	40	0
	>	40	0
Total Non-Zero Values			717

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for November 2007

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
11a	Webber Creek	0.4	25.9	2.2	
11b	Webber Creek	0.4	25.3	2.4	
18a	Saddle Hills	0.6	29.4	1.6	
18b	Saddle Hills	0.7	28.3	1.7	
40a	McLennan	0.4	31.9	1.3	
40b	McLennan	0.5	31.4	1.4	
43a	High Prairie	0.2	27.8	1.9	
43b	High Prairie	0.2	27.2	2.1	
57a	Dixonville	0.2	29.8	1.3	
57b	Dixonville	0.2	32.3	1.5	
49a	Grande Prairie HP	0.3	20.2	9.5	
49b	Grande Prairie HP	0.4	19.8	10.3	
1	Silver Valley	0.5	29.4	2.1	08-27-081-11 W6M
2	Bay Tree	0.3	29.8	1.4	13-16-078-13 W6M
3	Forth Creek	0.5	33.4	1.3	04-13-082-07 W6M
4	Gordondale	0.5	31.9	1.6	04-34-078-10 W6M
5	Boone Creek	0.3	27.0	1.9	01-23-076-11 W6M
7	Steeprock Creek	0.4	33.9	1.2	09-35-072-13 W6M
9	Spirit River	0.5	28.5	1.9	08-12-079-07 W6M
10	Woking	0.4	30.3	1.1	01-13-076-07 W6M
11	Webber Creek	0.4	25.6	2.3	09-36-074-09 W6M
12	Hythe	0.3	29.6	2.2	14-36-072-11 W6M
14	Sylvester	0.1	27.7	1.2	08-06-069-12 W6M
16	Beaverlodge	0.4	31.5	2.8	15-36-071-10 W6M
17	Poplar	0.4	26.6	2.4	13-06-073-08 W6M
18	Saddle Hills	0.7	28.8	1.7	04-25-074-07 W6M
19	Wanham	0.5	32.9	1.7	16-22-077-03 W6M
20	Shaftesbury	0.2	27.2	1.6	04-03-082-23 W5M
21	Eaglesham	0.2	28.1	1.3	16-21-079-25 W5M
23	Bear Lake	0.3	25.0	2.7	15-31-072-06 W6M
24	Wembley	0.2	25.9	2.4	12-31-070-08 W6M
25	Pinto Creek	0.2	27.3	1.4	04-24-069-11 W6M
26	Flyingshot	0.3	27.8	2.8	15-36-070-07 W6M

Table 1. PASZA Passive Stations for November 2007 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
27	Grande Prairie I	0.8	28.7	6.2	08-15-071-06 W6M
28	Clairmont Lake	0.4	29.0	2.4	09-06-073-04 W6M
29	Smoky Heights	0.6	28.3	2.3	04-06-075-02 W6M
30	Fitzsimmons	0.3	21.9	2.1	15-36-072-03 W6M
32	Gold Creek	0.2	16.5	3.0	06-33-067-05 W6M
33	Wapiti	0.2	24.6	2.2	02-25-071-03 W6M
34	Puskaskau	0.1	23.0	0.9	15-35-074-25 W5M
35	Jean Cote	0.4	28.8	1.5	12-35-079-21 W5M
36	Guy	0.3	30.5	1.5	03-04-076-22 W5M
37	Crooked Creek	0.3	24.6	2.3	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.3	28.2	1.8	12-01-073-22 W5M
40	McLennan	0.5	31.7	1.4	03-29-077-19 W5M
41	Valleyview	0.7	31.9	1.7	09-30-069-22 W5M
42	Sunset House	0.5	33.2	1.5	05-32-070-19 W5M
43	High Prairie	0.2	27.5	2.0	16-13-074-17 W5M
44	Peavine	0.2	26.2	0.8	03-05-079-15 W5M
45	Gift Lake	0.1	26.4	0.9	10-07-079-12 W5M
46	Little Smoky	0.3	20.7	4.3	12-01-065-21 W5M
47	Kinuso	0.2	26.3	1.2	12-10-073-10 W5M
48	Deer Mountain	0.3	26.2	1.3	15-22-068-09 W5M
49	Grande Prairie HP	0.4	20.0	9.9	17-26-071-06 W6M
50	Clear River	0.6	32.0	1.7	SE-03-084-12 W6M
51	Bear Canyon	0.8	30.1	1.3	SE-28-085-12 W6M
52	Worsley	0.3	26.6	1.7	NE-34-085-07 W6M
53	Hines Creek	0.3	27.2	1.5	SW-09-084-04 W6M
54	Ronan	N/A	N/A	N/A	SE-03-082-04 W6M
55	Cadotte Lake School	0.1	21.0	1.8	NE-23-086-16 W5M
56	Simon Lake Store	0.9	27.3	1.4	SE-32-086-17 W5M
57	Dixonville	0.2	30.4	1.6	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.3	34.8	1.6	NW-19-083-23 W5M
59	Blue Sky	0.4	31.4	2.3	SW-35-081-02 W6M
60	Gerry Lake	0.2	28.5	0.9	SW-22-084-02 W6M
61	Musreau Lake	0.2	29.9	0.7	NE-22-064-05 W6M

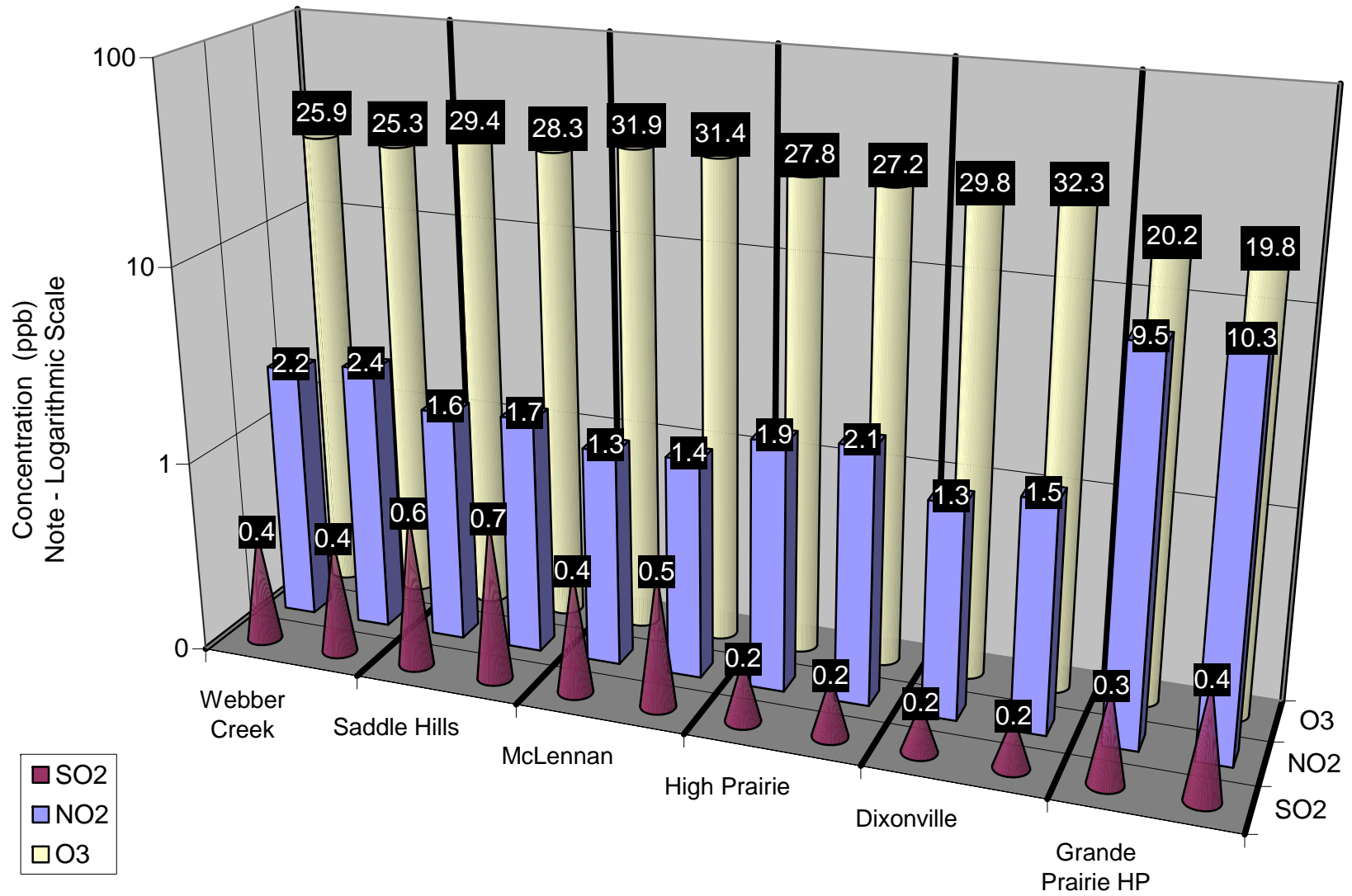


Figure 62. Duplicate Summary Chart

Table 2. Passive Summary Results for November 2007

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for November 2007 (PASZA Zone)			
Mean	0.4	28.0	2.0
Standard Deviation	0.2	3.7	1.4
Minimum	0.1	16.5	0.7
Minimum At	Sylvester (#14)	Gold Creek (#32)	Musreau Lake (#61)
Maximum	0.9	34.8	6.0
Maximum At	Simon Lake Store (#56)	Queen Elizabeth Park	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.5	26.7	4.7
PASZA Beaverlodge passive	0.4	31.5	2.8
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	17.5	13.3
PASZA Grande Prairie passive	0.4	20.0	9.9
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.5	23.0	4.9
PASZA Spirit River passive	0.5	28.5	1.9

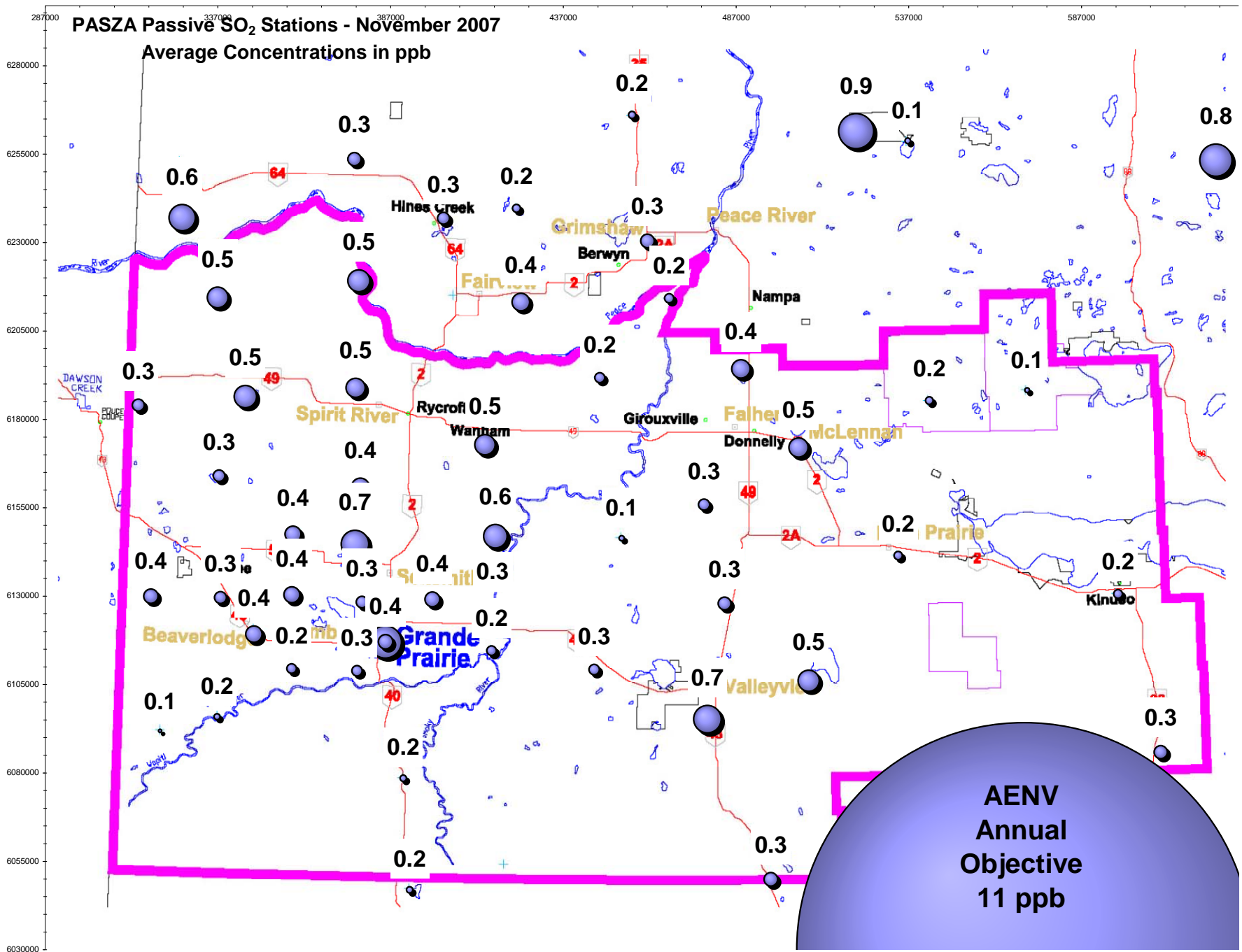


Figure 63. SO₂ Bubble Chart

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

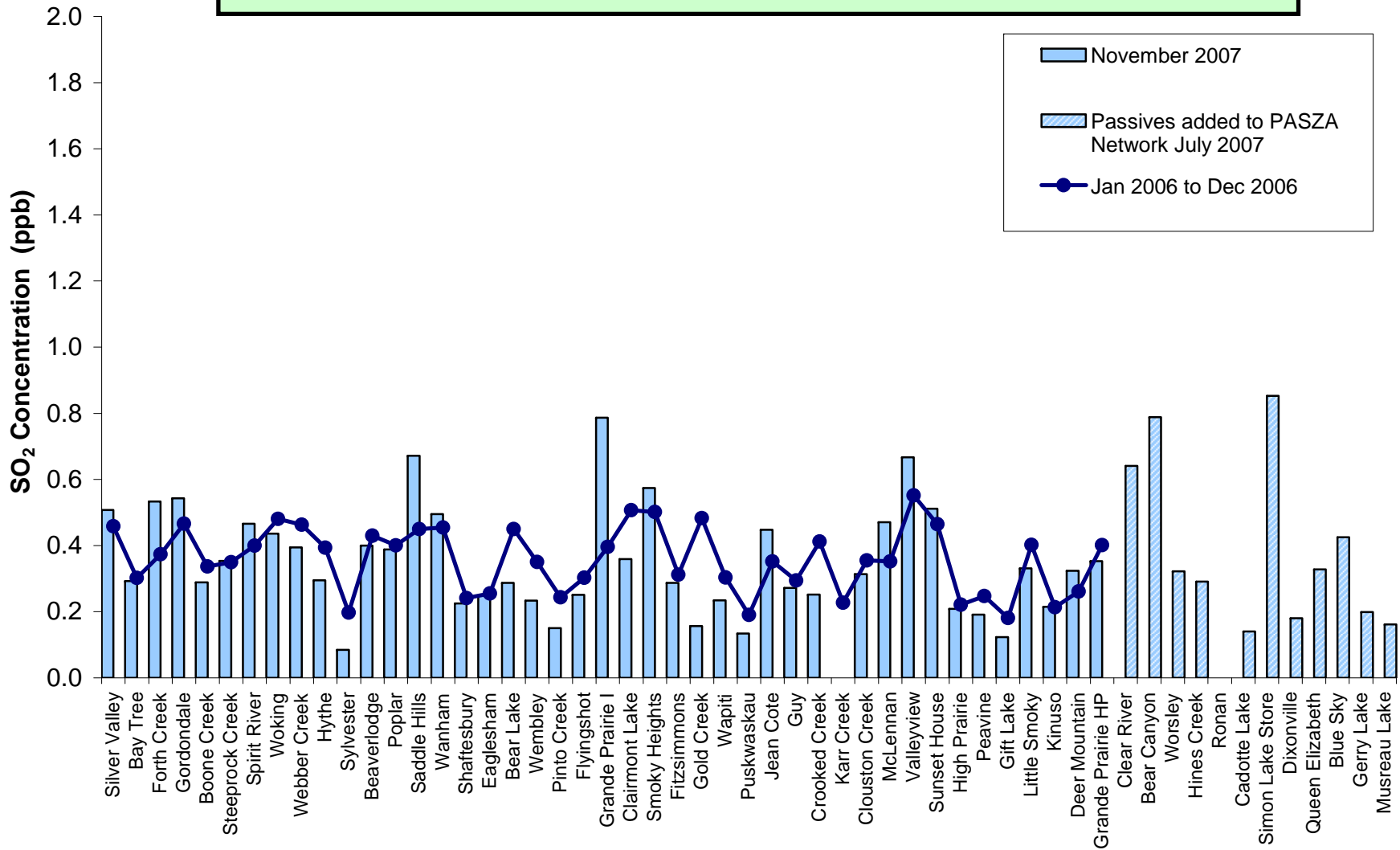


Figure 64. SO₂ Summary Chart

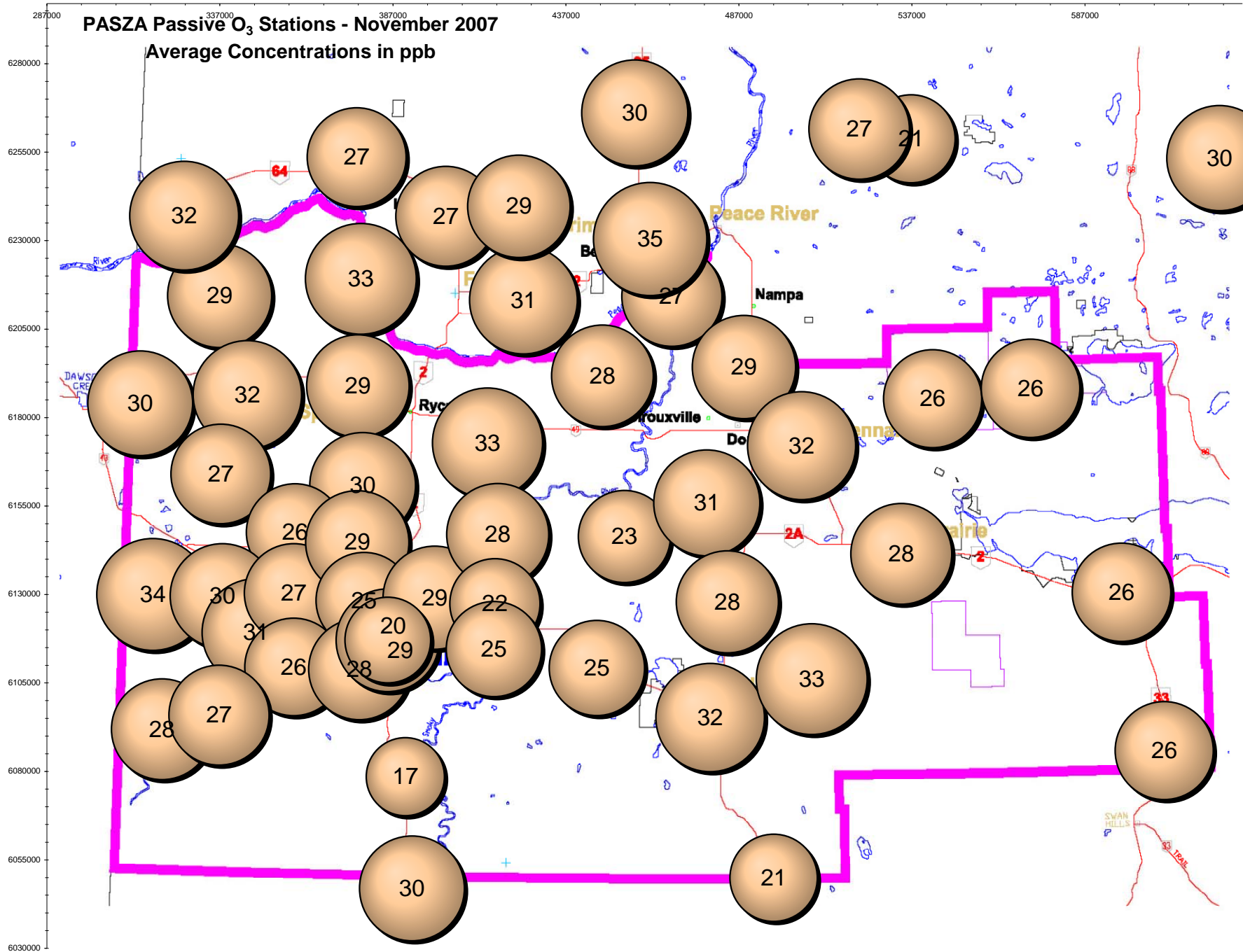


Figure 65. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

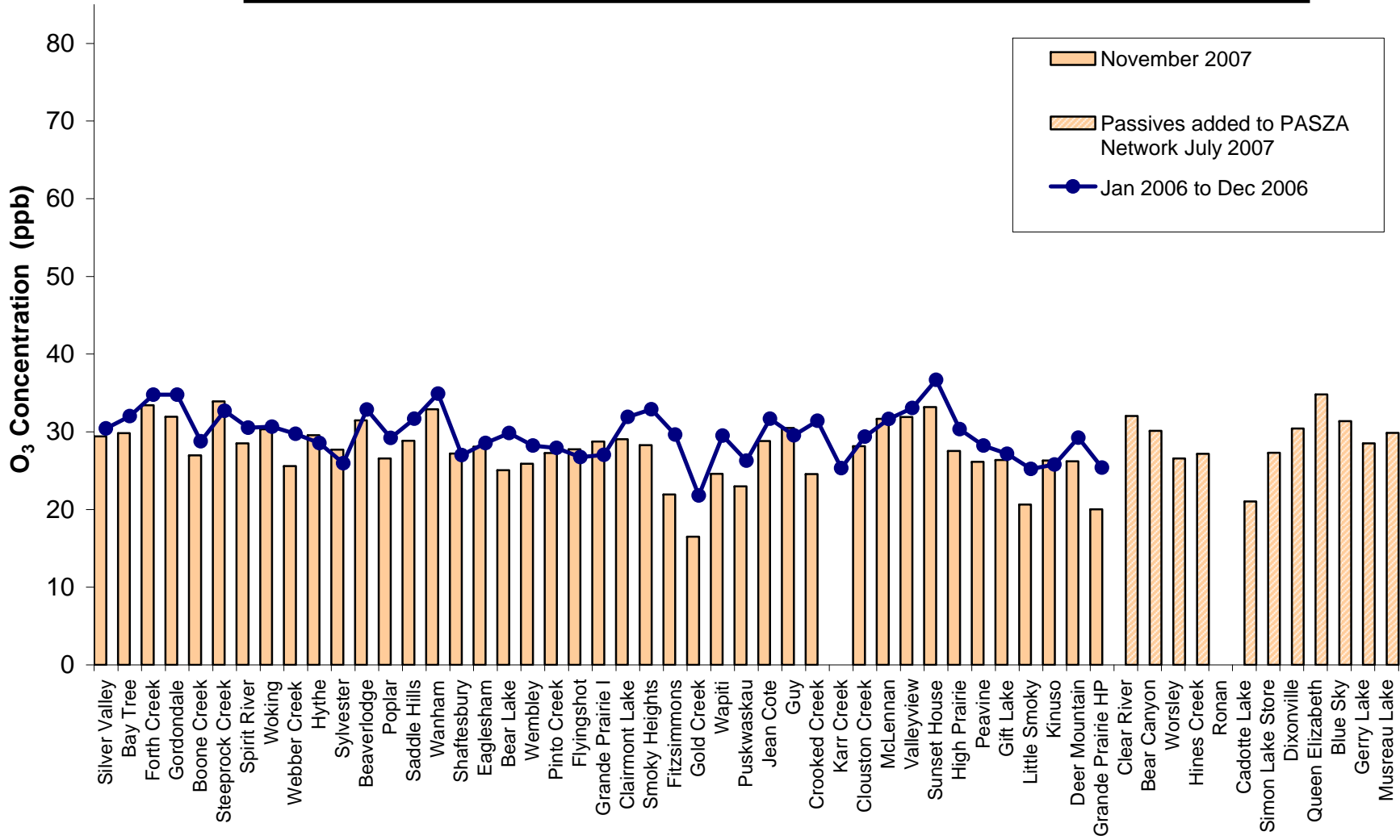


Figure 66. O₃ Summary Chart

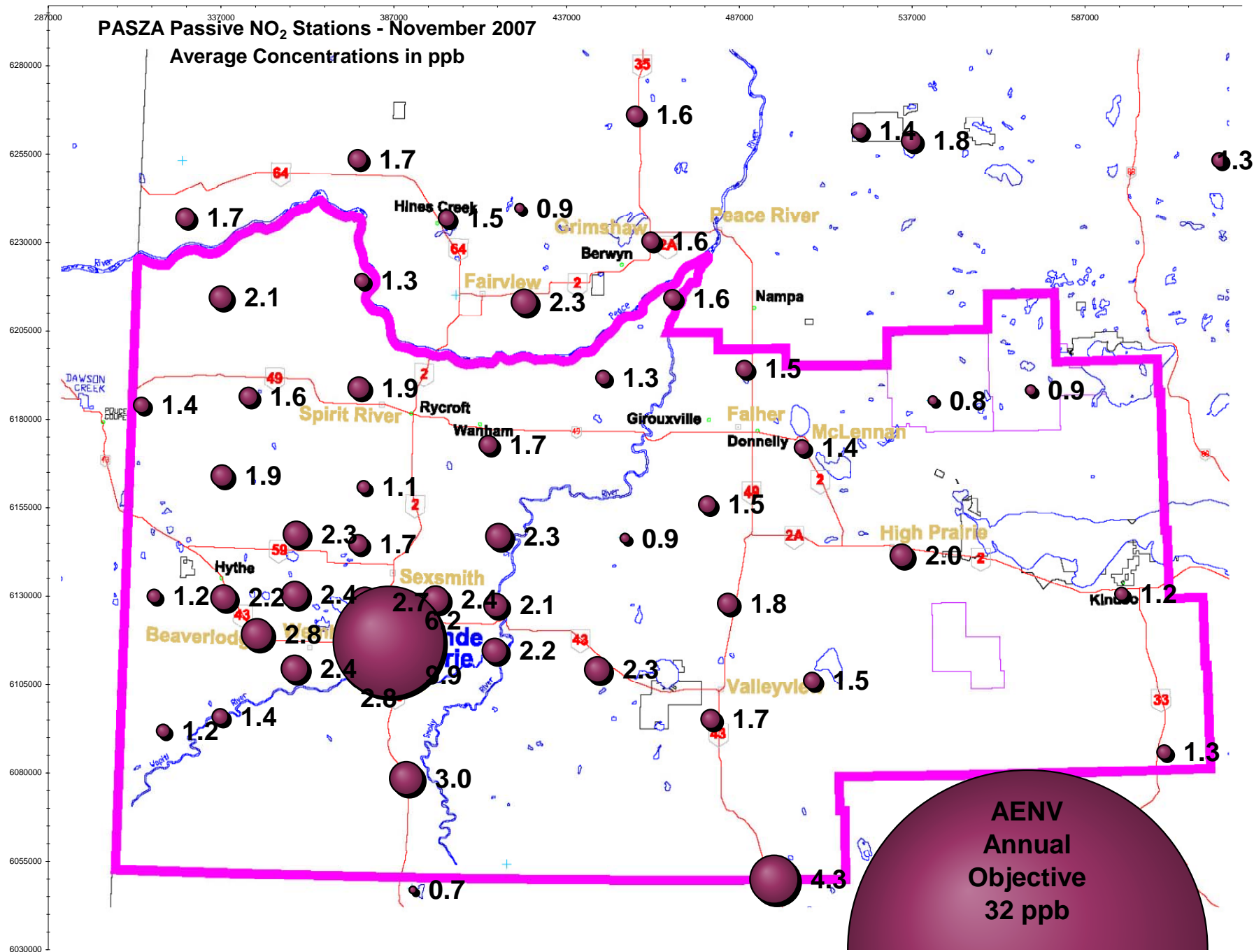


Figure 67. NO₂ Bubble Chart

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

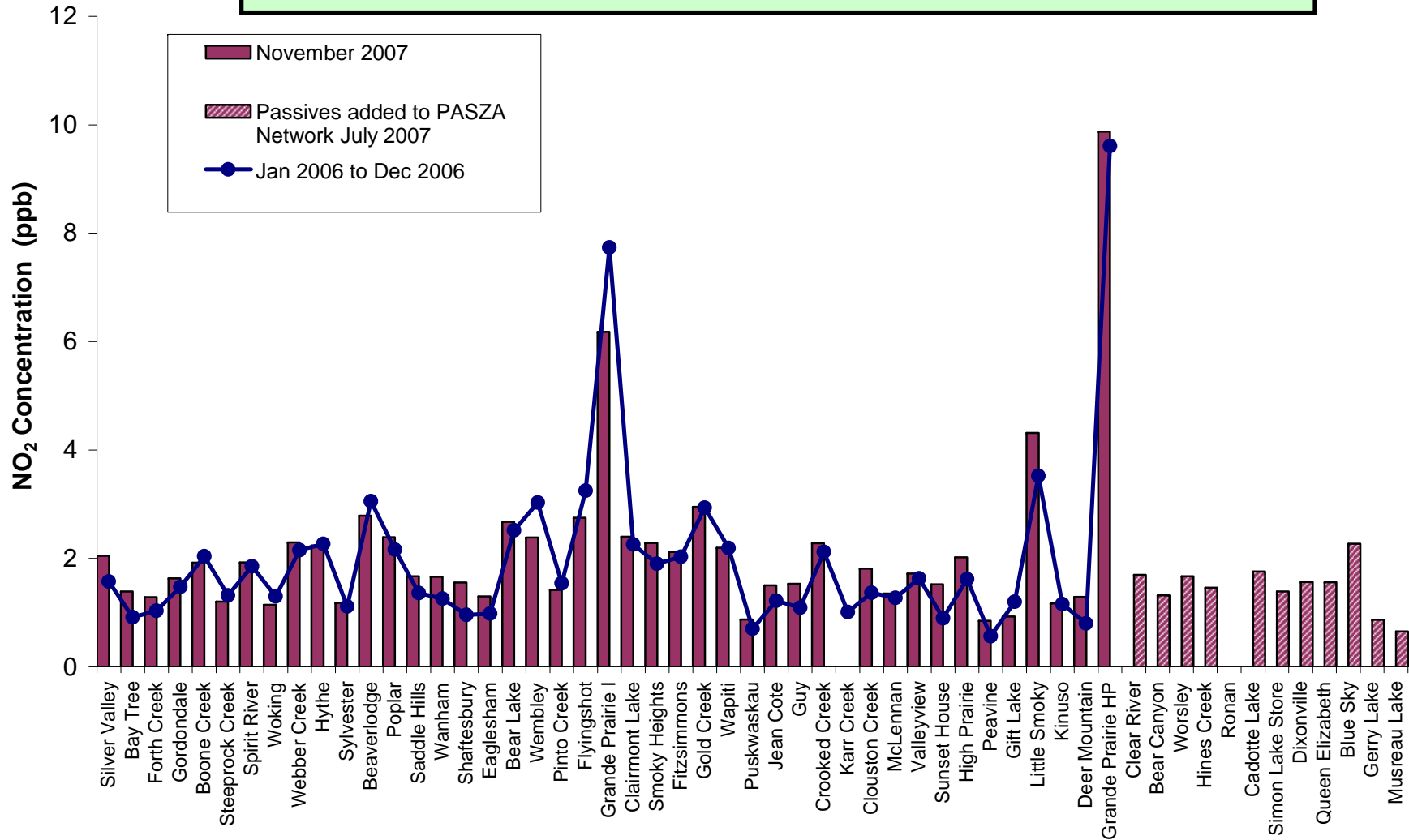


Figure 68. NO₂ Summary Chart

November 2007 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 and TRS**

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

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

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

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

Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	11:40	End Time (MST)	14:30
Barometric Pressure	0.923 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	50.3 ppb	Cal Gas Expiry Date	1/2/2009
		Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	1.015561	Calculated slope	1.018804
Calculated intercept	-1.091765	Calculated intercept	-0.803087
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.3		7.4	
Coefficient	0.785		0.785	
Pressure	652.7	mm Hg	644.3	mm Hg
Flow	0.462	lpm	0.463	lpm
Lamp Voltage	44181	Hz	44088	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)
4991	0.00	0.0	0.1	N/A
4991	39.82	398.1	391.3	1.0175
4991	19.95	200.3	197.5	1.0140
4991	9.96	100.2	99.9	1.0023
4991	0.00	0.0	0.1	As Found Zero
4991	39.82	398.1	391.3	As Found Span
Average Correction Factor				1.0113

Calculated value of As Found Response: 396.2 ppb Percent Change of As Found: 0.5%

	before calibration		after calibration	
Auto zero	0.5	ppb	0.5	ppb
Auto span	344.1	ppb	345.8	ppb

Notes: No Adjustments MadeCalibration Performed By: Conor Whiteley

Calibration Summary

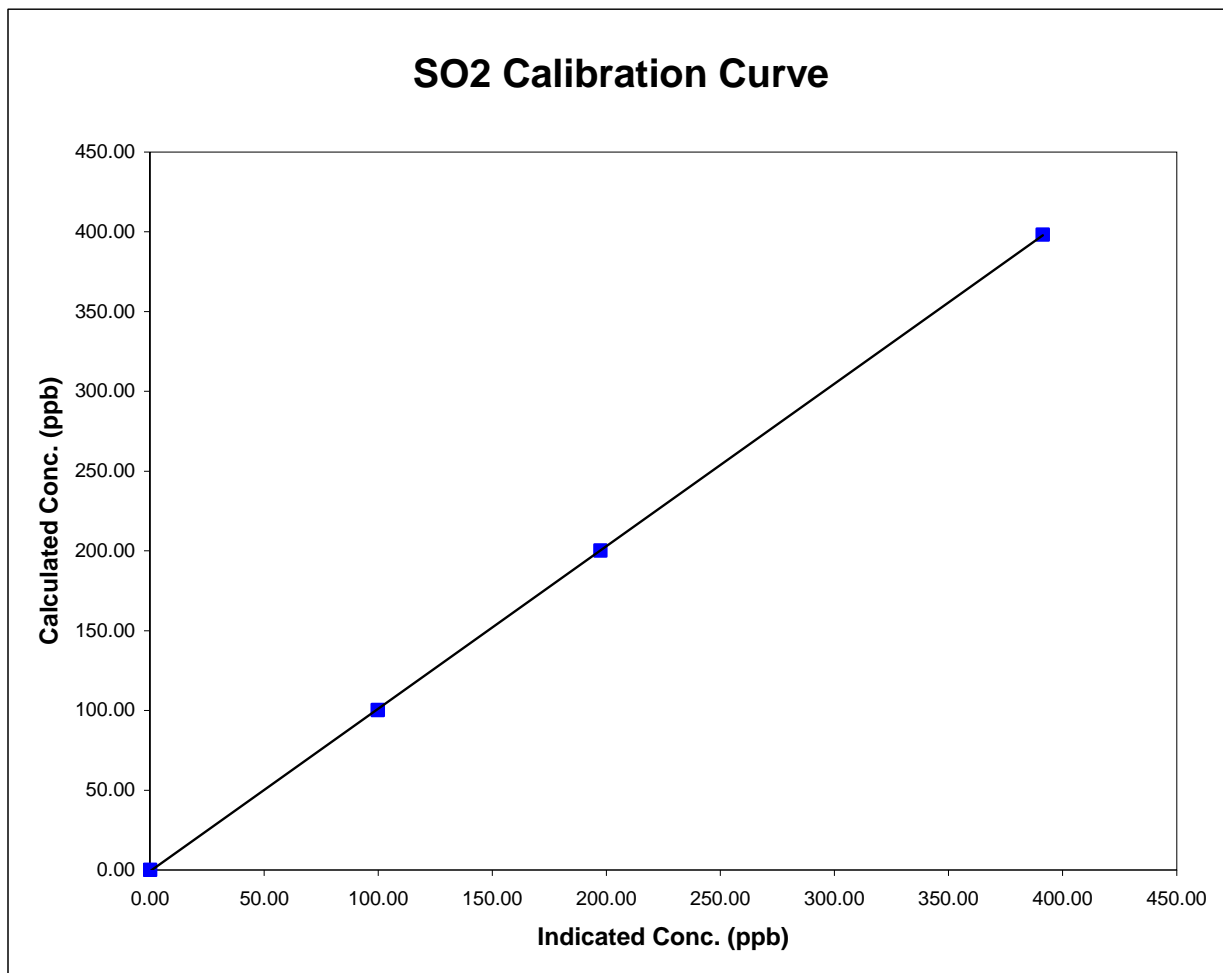
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

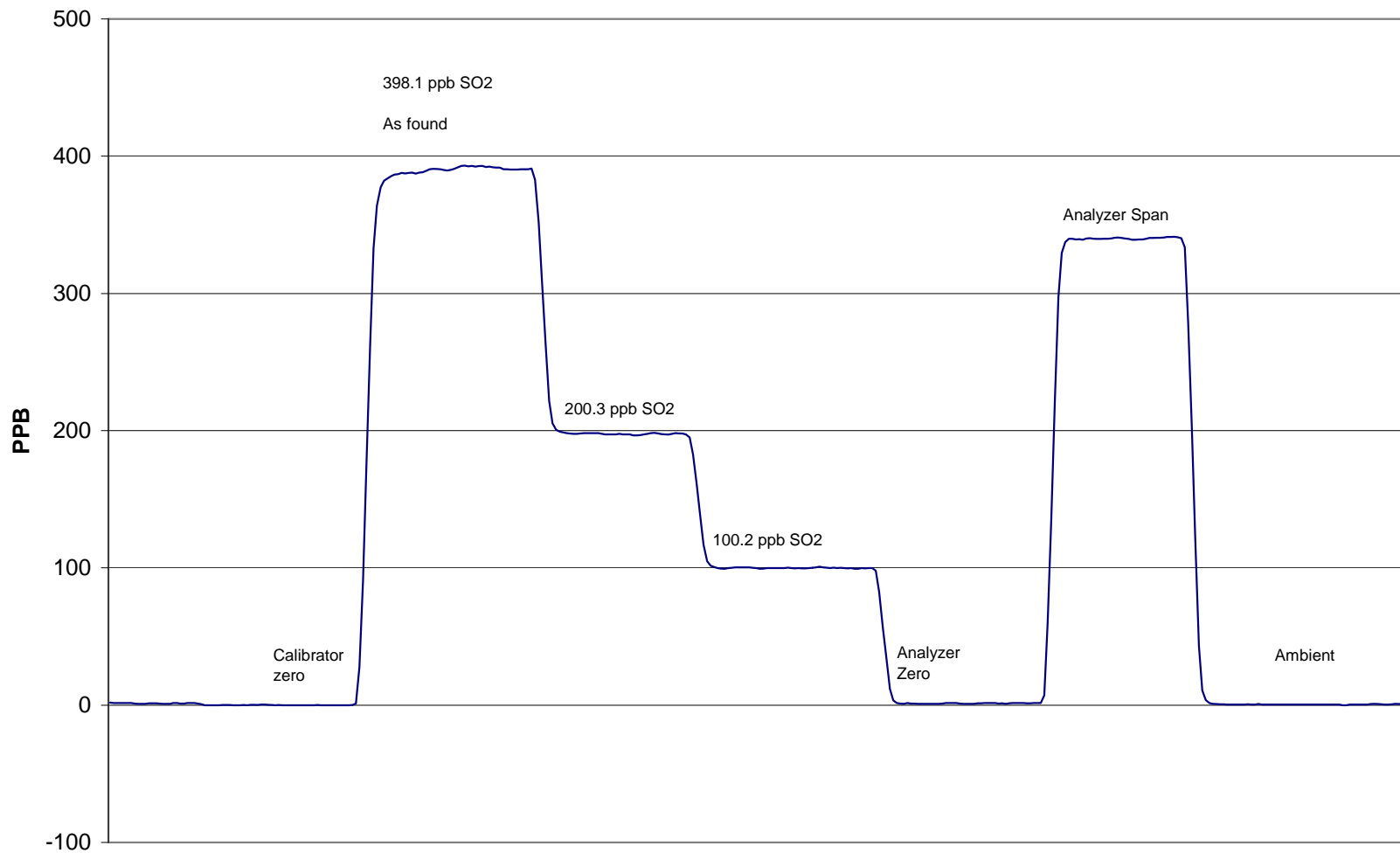
Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:40	End Time (MST)	14:30
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
398.1	391.3	1.0175	Correlation Coefficient	0.999985
200.3	197.5	1.0140		
100.2	99.9	1.0023	Slope	1.018804
			Intercept	-0.803087



Henry Pirker SO2 Calibration



November 19, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
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)	14:05
Barometric Pressure	0.923 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

Parameter		NO2	NOx	NO
Before	Data Slope	0.993843	0.997197	1.001047
	Data Offset	-0.206897	-1.706207	-1.352586
After	Data Slope	1.002362	1.002510	1.003047
	Data Offset	-0.892123	-2.156176	-1.442479
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

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.8	ppb	7.8	mV
NOx background	8.2	ppb	8.2	mV
NO coefficient	0.678		0.678	
NOx coefficient	1.000		1.000	
Chamber Temp	49.6	Deg C	49.8	Deg C
Cooler Temp	-2.4	Deg C	-2.5	Deg C
Converter Temp	319.0	Deg C	318.0	Deg C
Vacuum	167.3	mm Hg	165.5	mm Hg

Notes:

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date: November 19, 2007

Station Location: Henry Pirker

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	4989	0.00	0.0	0.0	0.0	0.9	0.0	0.8	N/A	N/A
1	4989	39.88	387.8	387.8	0.0	388.3	387.3	0.9	0.9988	1.0013
2	4989	19.92	194.5	194.5	0.0	196.9	196.1	0.8	0.9878	0.9916
3	4989	9.96	97.4	97.4	0.0	100.6	100.0	0.5	0.9685	0.9741
AFZ	4989	0.00	0.0	0.0	0.0	0.9	0.0	0.8	0.0000	0.0000
AFS	4989	39.88	387.8	387.8	0.0	388.3	387.3	0.9	0.9988	1.0013
Average Correction Factor									0.9850	0.9890

As Found Concentrations: NO_x= 385.7 NO= 385.9 As Found Percent Change NO_x= -0.5% NO= -0.5%

GPT Calibration Data

Dilution Flow 4989 ccm Source Gas Flow 39.88 ccm

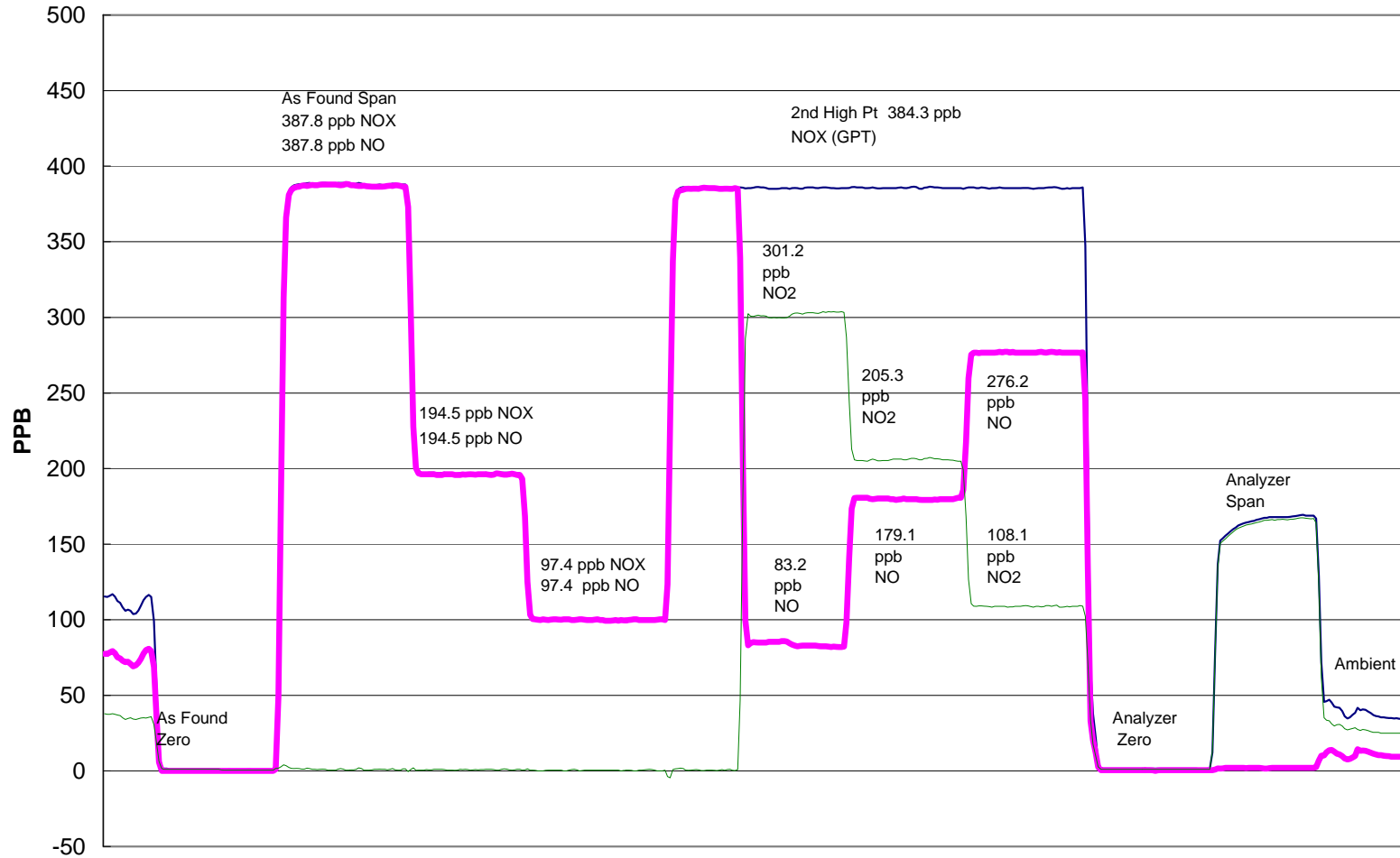
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	384.3	384.9	-0.6	385.7	385.2	0.5	0.9964	0.9993	N/A	N/A
300	384.3	83.2	301.2	385.5	84.4	301.2	0.9971	0.9859	0.9998	100.0%
200	384.3	179.1	205.3	385.6	180.0	205.8	0.9967	0.9950	0.9974	100.3%
100	384.3	276.2	108.1	385.5	276.8	108.9	0.9970	0.9978	0.9930	100.7%
Average Correction Factor							0.9969	0.9929	0.9967	100.3%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.9	1.0	1.0	ppb	-1.7	0.8	0.4	ppb
Auto span	165.0	164.5	0.1	ppb	165.8	165.3	0.5	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



November 19, 2007

Calibration Summary

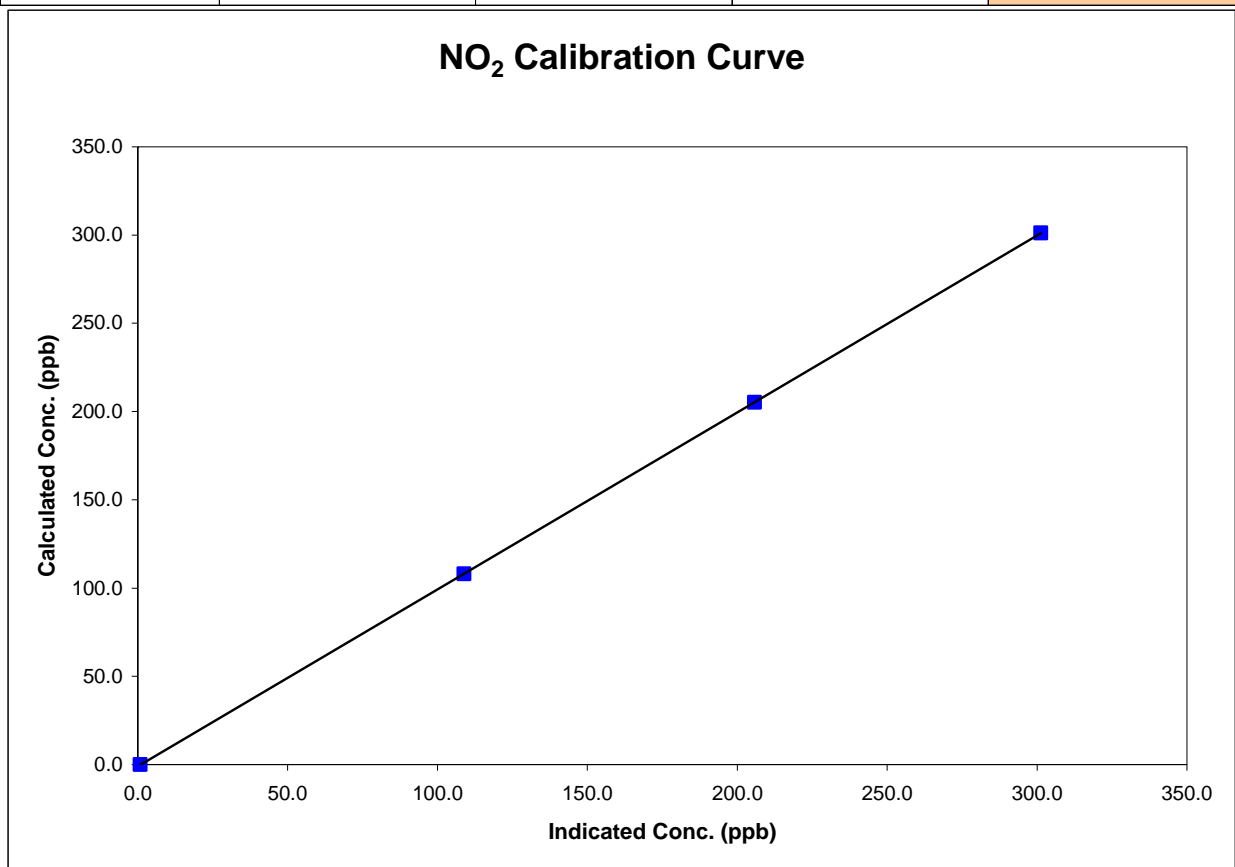
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	14:05
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	0.8	0.0000	Correlation Coefficient	0.999999
301.2	301.2	0.9998		
205.3	205.8	0.9974		
108.1	108.9	0.9930		
			Slope	1.002362
			Intercept	-0.892123



Calibration Summary

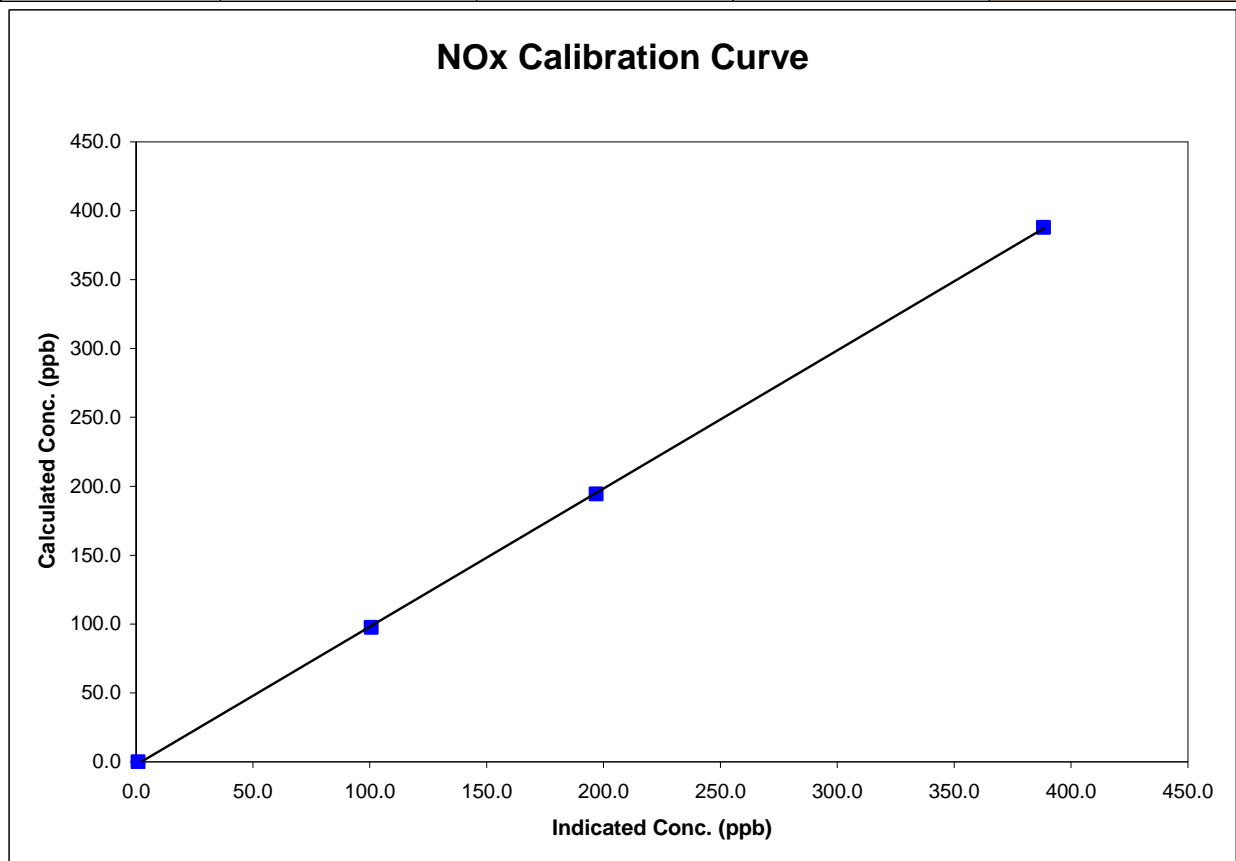
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	14:05
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	0.9	0.0000	Correlation Coefficient	0.999948
387.8	388.3	0.9988		
194.5	196.9	0.9878		
97.4	100.6	0.9685		
			Slope	1.002510
			Intercept	-2.156176



Calibration Summary

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

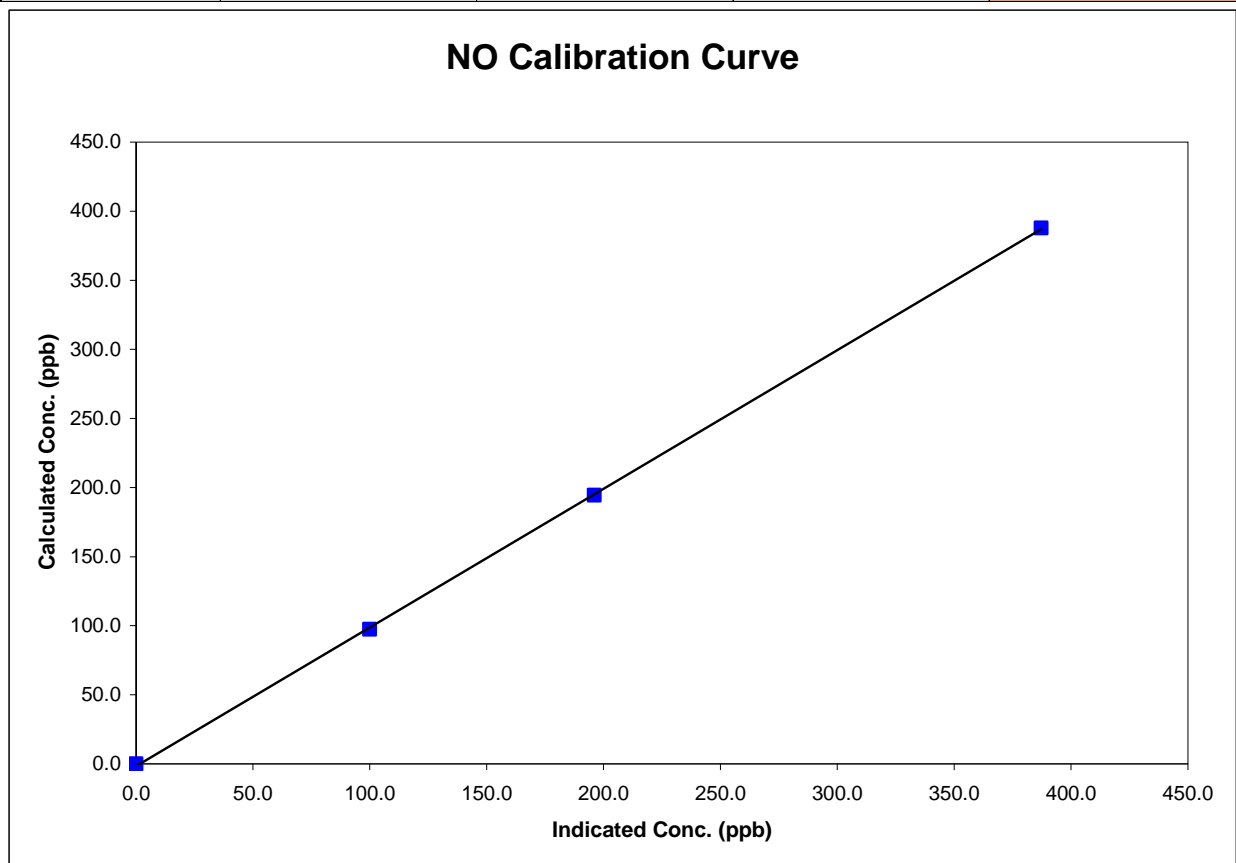


Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:45	End Time (MST)	14:05
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		
387.8	387.3	1.0013	Correlation Coefficient	0.999933
194.5	196.1	0.9916		
97.4	100.0	0.9741	Slope	1.003047
			Intercept	-1.442479



Calibration Report

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

Station Information

Calibration Date	November 22, 2007	Previous Calibration	October 9, 2007
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)	9:20	End Time (MST)	12:30
Barometric Pressure	0.911 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
	<u>Before</u>		<u>After</u>

Calculated slope	0.982354	Calculated slope	1.006682
Calculated intercept	-0.920463	Calculated intercept	-2.344232

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

	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.7	ppb	-0.7	ppb
slope	1.042		1.042	
O3 Lamp temp	71.1	mV	71.1	mV
Intensities	97452/75415	mV	92374/74326	mV
Pressure	702.9	inches Hg	702.9	inches Hg
Flow A	669	ccm	665	ccm
Flow B	684	Deg C	688	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	4992	0.0	0.6	N/A
300	4992	301.2	300.5	1.0023
200	4992	205.3	206.2	0.9957
100	4992	108.1	112.6	0.9605
0	4992	0.0	0.6	As found zero
300	4992	301.2	322.6	As found span
Average Correction Factor				0.9861

Calculated value of As Found Response: 315.4 ppm Percent Change of As Found: 4.7%

	before calibration		after calibration	
Auto zero	-2.8	ppb	-4.0	ppb
Auto span	327.4	ppb	338.6	ppb

Notes: Adjusted SpanCalibration Performed By: Conor Whiteley

Calibration Summary

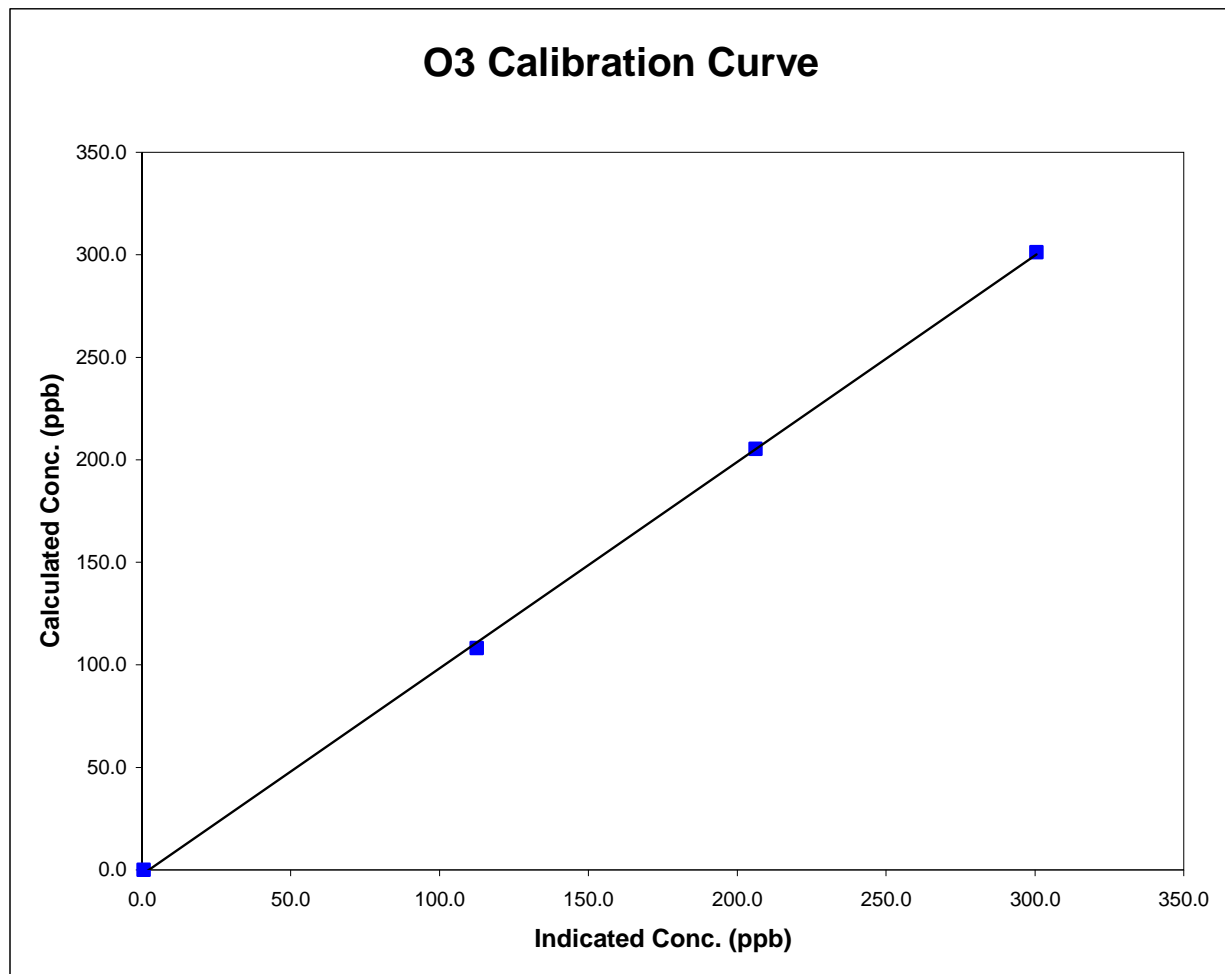
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

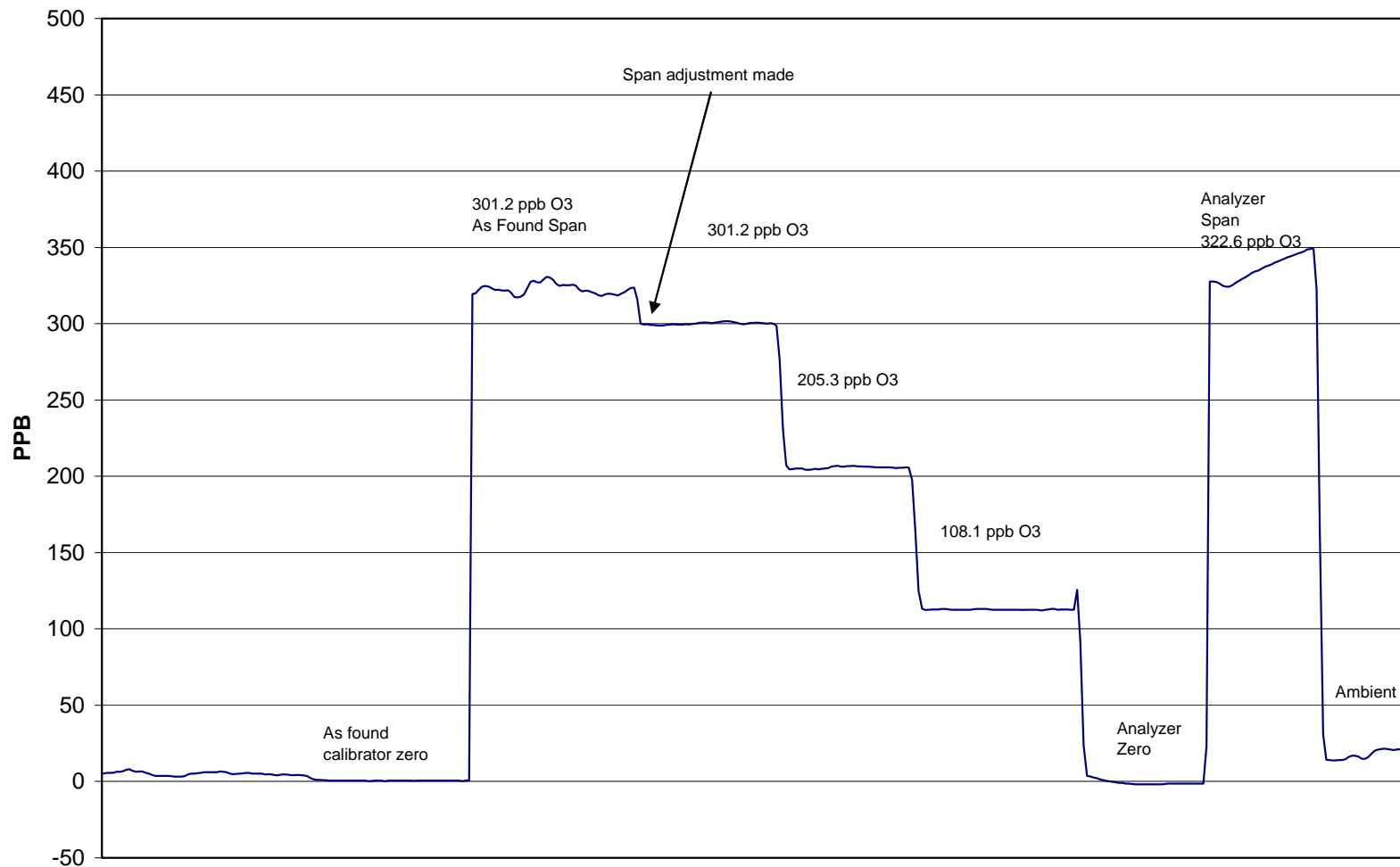
Calibration Date	November 22, 2007	Previous Calibration	October 9, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:20	End Time (MST)	12:30
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	NA		
301.2	300.5	1.0023	Correlation Coefficient	0.999754
205.3	206.2	0.9957		
108.1	112.6	0.9605	Slope	1.006682
			Intercept	-2.344232



Henry Pirker O3 Calibration



November 22, 2007

Calibration Report



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

Station Information

Calibration Date	November 23, 2007	Previous Calibration	October 11, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:15	End Time (MST)	13:15
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 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	0.985215	Calculated slope	1.036306
Calculated intercept	-0.970100	Calculated intercept	-0.134148
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.049		1.049	
CO zero setting	9.937		-0.002	
Sample pressure	684.3	mm Hg	686.9	mm Hg
Sample Flow	1.112	LPM	1.118	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	0.04	N/A
4987	39.90	23.81	23.06	1.0328
4987	19.85	11.89	11.67	1.0193
4987	9.92	5.96	5.95	1.0006
4987	0.00	0.00	1.45	As Found Zero
4987	39.90	23.81	26.11	As Found Span
Average Correction Factor				1.0175

Calculated value of As Found Response: 23.322 ppm Percent Change of As Found: 2.1%

	before calibration		after calibration	
Auto zero	0.07	ppm	-0.05	ppm
Auto span	20.85	ppm	20.86	ppm

Notes: Adjusted the S/R ration from the initial 1.174346 to the current 1.152229
This adjustment will allow me to adjust the zero which was out of range at the first attempt

Calibration Performed By: Conor Whiteley

Calibration Summary

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

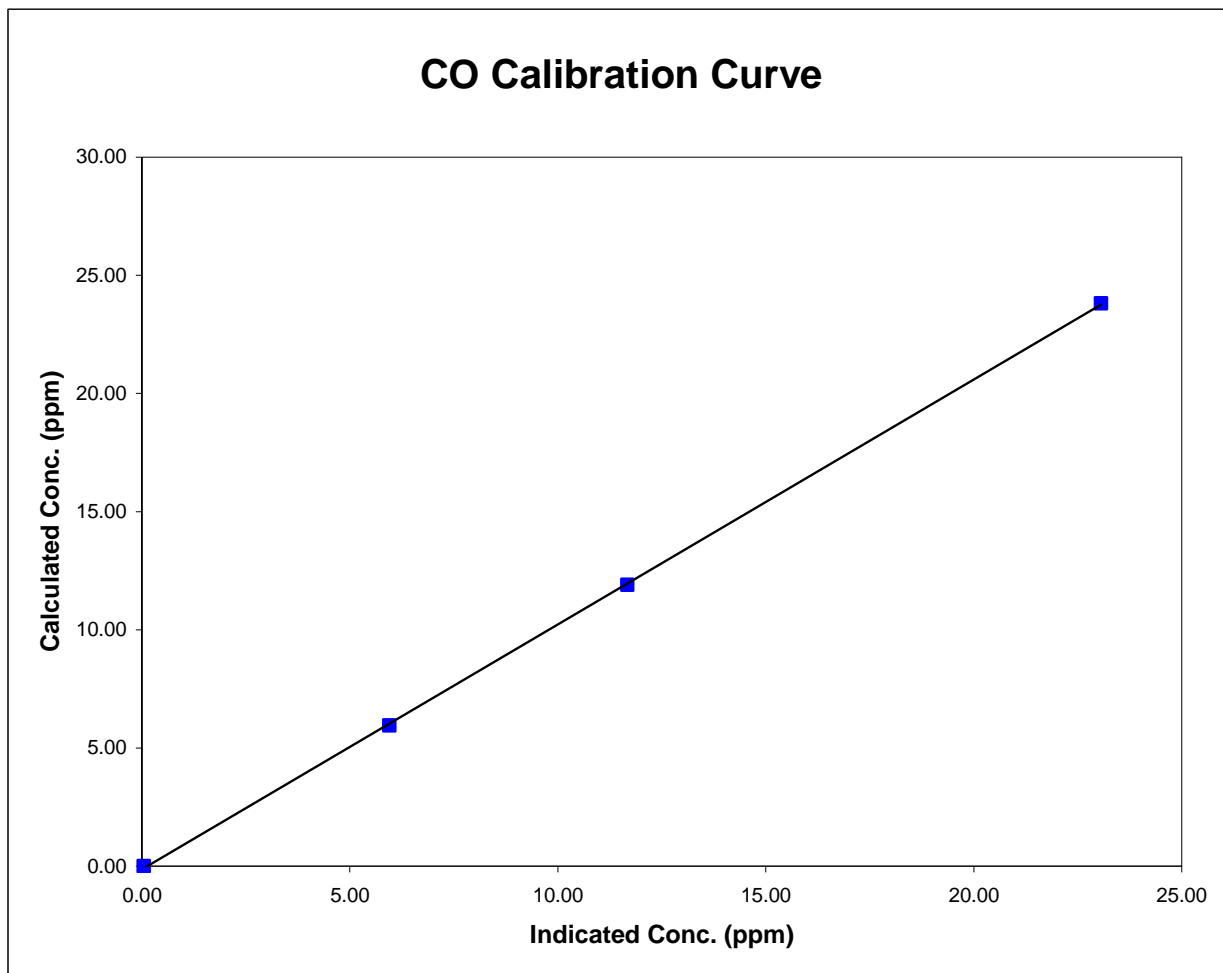


Station Information

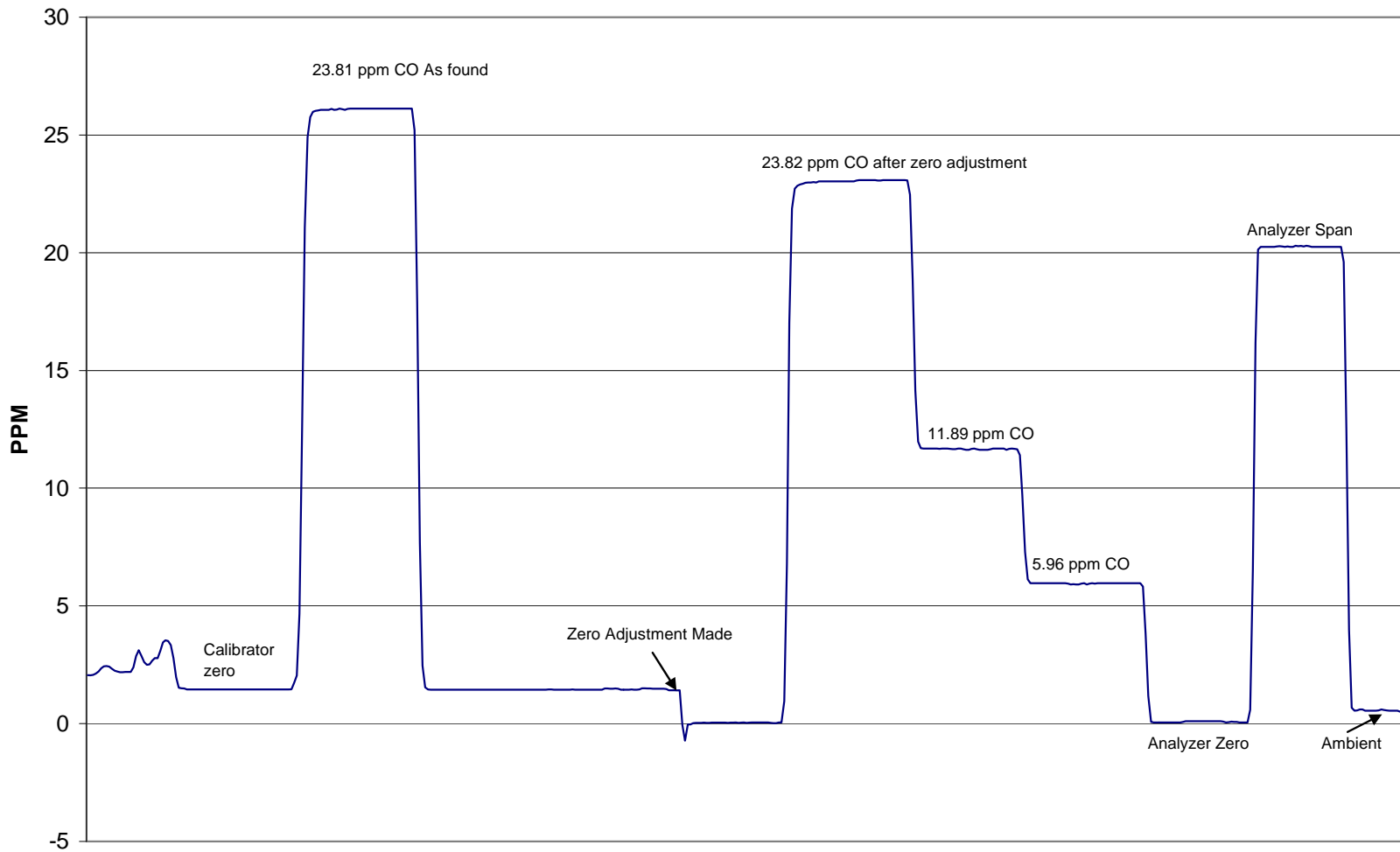
Calibration Date	November 23, 2007	Previous Calibration	October 11, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:15
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.042	N/A		
23.812	23.056	1.0328	Correlation Coefficient	0.999931
11.894	11.669	1.0193		
5.956	5.952	1.0006	Slope	1.036306
			Intercept	-0.134148



Henry Pirker CO Calibration



November 23, 2007

Calibration Report
 Parameter **THC**
 Air Monitoring Network **PASZA**
**Station Information**

Calibration Date	November 23, 2007	Previous Calibration	October 11, 2007
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)	12:00	End Time (MST)	16:15
Barometric Pressure	0.919 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	0.964348	Calculated slope	1.062209
Calculated intercept	-0.341680	Calculated intercept	0.093326
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.26	psi	5.95	psi
THC span counts	6889	capture	6894	capture
THC zero counts	945	capture	1348	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	-0.27	N/A
4990	69.89	21.03	19.53	1.0765
4990	29.89	9.06	8.84	1.0257
4990	9.92	3.02	2.72	1.1097
4990	0.00	0.00	1.06	As Found Zero
4990	69.89	21.03	18.04	As Found Span
Average Correction Factor				1.0706

Calculated value of As Found Response: 16.035 ppm Percent Change of As Found: 23.7%

	before calibration		after calibration	
Auto zero	0.13	ppm	-0.19	ppm
Auto span	23.77	ppm	25.27	ppm

 Notes: Calibration gas accidentally removed during first high point
 Calibrated Zero
 Calibrated Span

 Calibration Performed By: Conor Whiteley

Calibration Summary



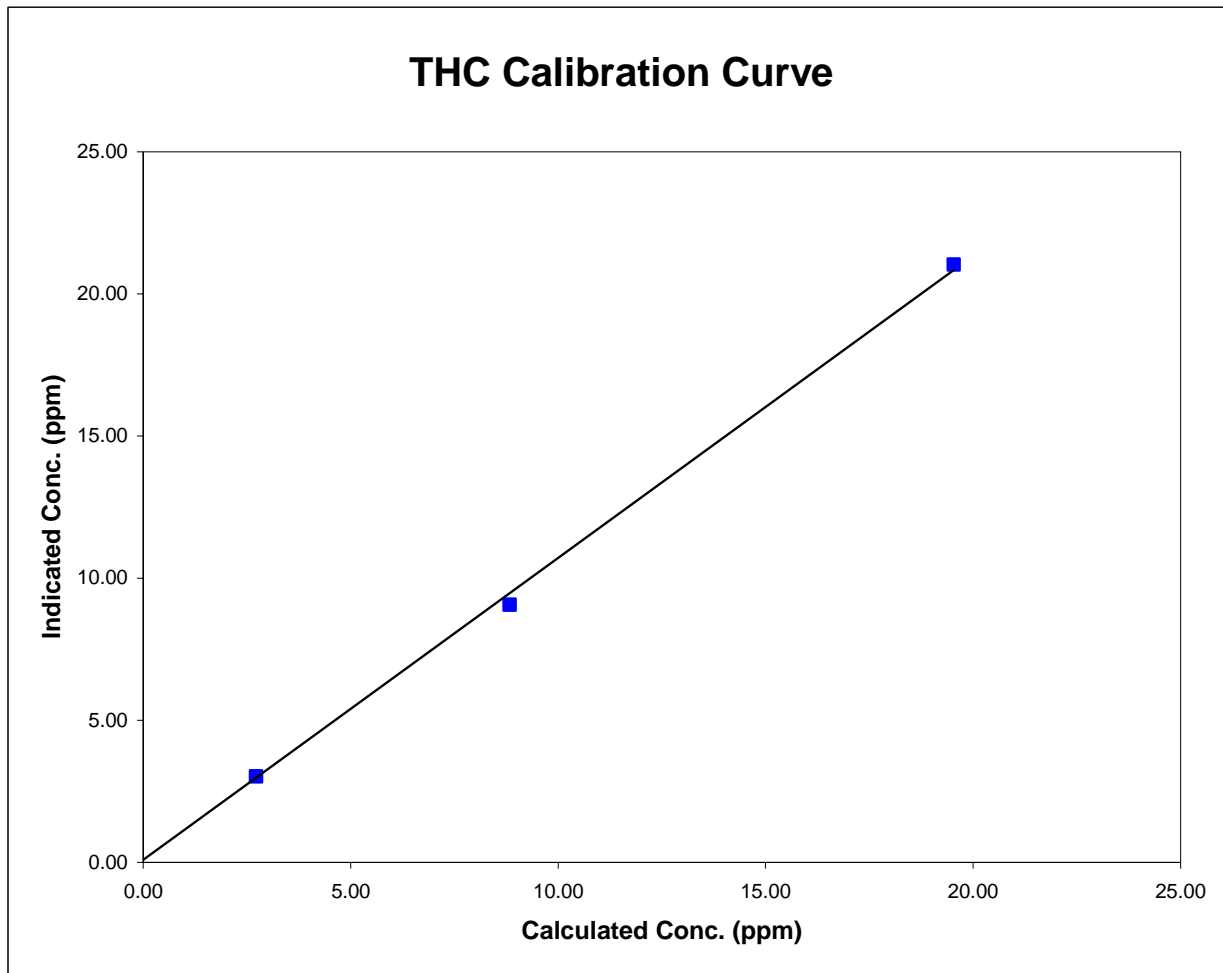
Parameter **THC**
 Air Monitoring Network **PASZA**

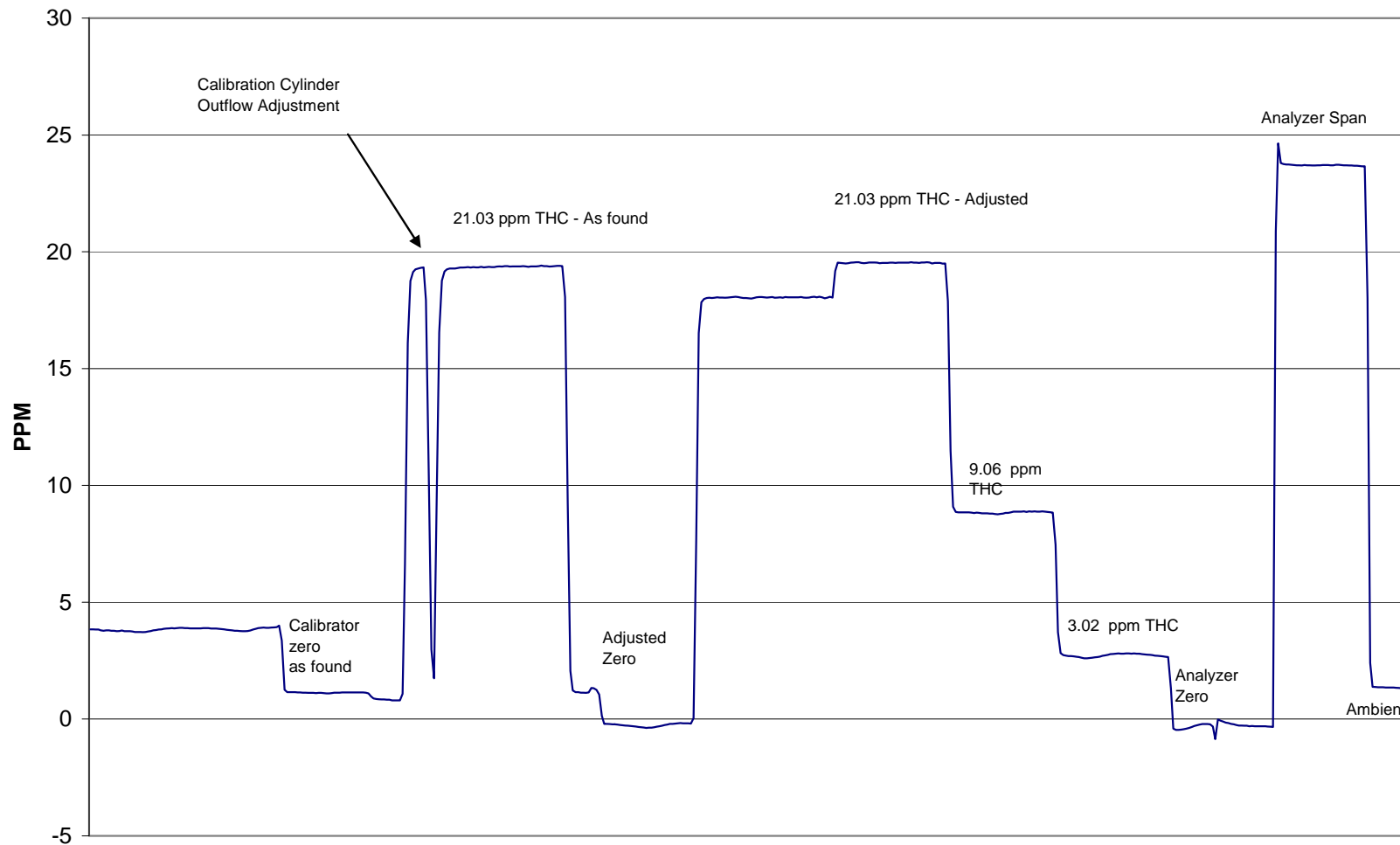
Station Information

Calibration Date	November 23, 2007	Previous Calibration	October 11, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	12:00	End Time (MST)	16:15
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	-0.271	N/A		
21.026	19.532	1.0765	Correlation Coefficient	0.999050
9.064	8.837	1.0257		
3.020	2.722	1.1097	Slope	1.062209
			Intercept	0.093326



Henry Pirker THC Calibration**November 23, 2007**

Calibration Report

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



Station Information

Calibration Date	November 26, 2007	Previous Calibration	November 23, 2007
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)	15:00	End Time (MST)	16:20
Barometric Pressure	0.920 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	0.964348	Calculated slope	1.062209
Calculated intercept	-0.341680	Calculated intercept	0.093326
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.26	psi	5.95	psi
THC span counts	6889	capture	6894	capture
THC zero counts	945	capture	1348	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	-0.27	N/A
4990	69.89	21.03	19.53	1.0765
4990	29.89	9.06	8.84	1.0257
4990	9.92	3.02	2.72	1.1097
4990	0.00	0.00	1.06	As Found Zero
4990	64.92	19.55	18.04	As Found Span
Average Correction Factor				1.0706

Calculated value of As Found Response: 16.035 ppm Percent Change of As Found: 18.0%

	before calibration		after calibration	
Auto zero	0.13	ppm	-0.19	ppm
Auto span	23.77	ppm	25.27	ppm

Notes: pump rebuilt

Calibration Performed By: Conor Whiteley

Calibration Summary

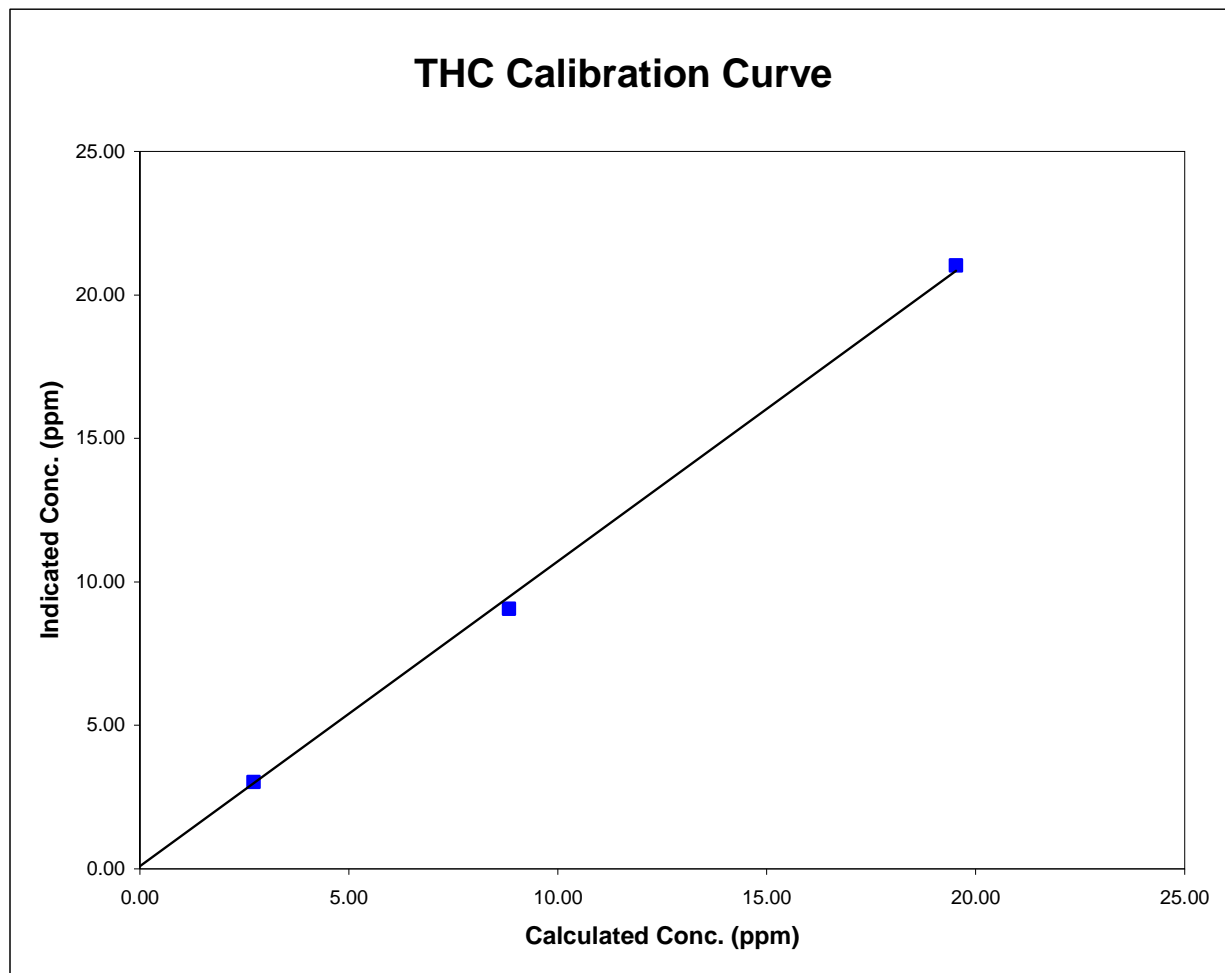
Parameter **THC**Air Monitoring Network **PASZA**

Station Information

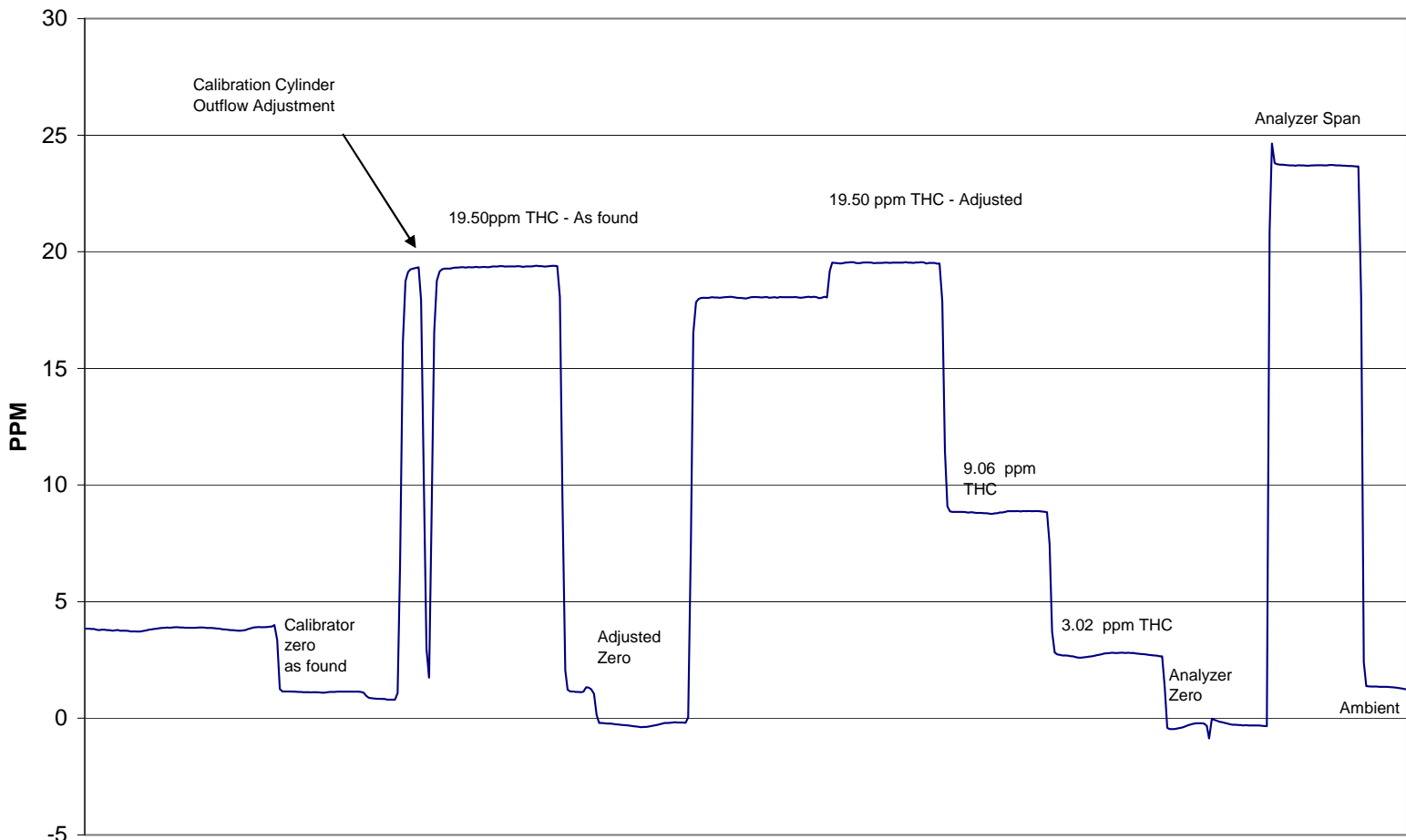
Calibration Date	November 26, 2007	Previous Calibration	November 23, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	15:00	End Time (MST)	16:20
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.271	N/A		
21.026	19.532	1.0765	Correlation Coefficient	0.999050
9.064	8.837	1.0257		
3.020	2.722	1.1097	Slope	1.062209
			Intercept	0.093326



Henry Pirker THC Calibration



November 26, 2007

Calibration Report

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

Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 10, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	15:00	End Time (MST)	18:10
Barometric Pressure	0.912 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.012692	Calculated slope	1.018865
Calculated intercept	0.408826	Calculated intercept	-0.040509
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	16.9		16.9	
Pressure	667.6	mm Hg	659.7	mm Hg
Flow	462	ccm	458	ccm
Lamp Voltage	853	V	861	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)
4990	0.00	0.00	0.06	N/A
4990	69.75	70.86	69.70	1.0166
4990	39.84	40.71	39.77	1.0237
4990	9.97	10.25	10.20	1.0056
4990	0.00	0.00	0.06	As Found Zero
4990	69.75	70.86	69.70	As Found Span
Average Correction Factor				1.0153

Calculated value of As Found Response: 70.9 ppb Percent Change of As Found: -0.1%

	before calibration		after calibration	
Auto zero	0.28	ppb	0.46	ppb
Auto span	36.48	ppb	37.31	ppb

Notes: No adjustments preformed

Calibration Performed By: Conor Whiteley

Calibration Summary

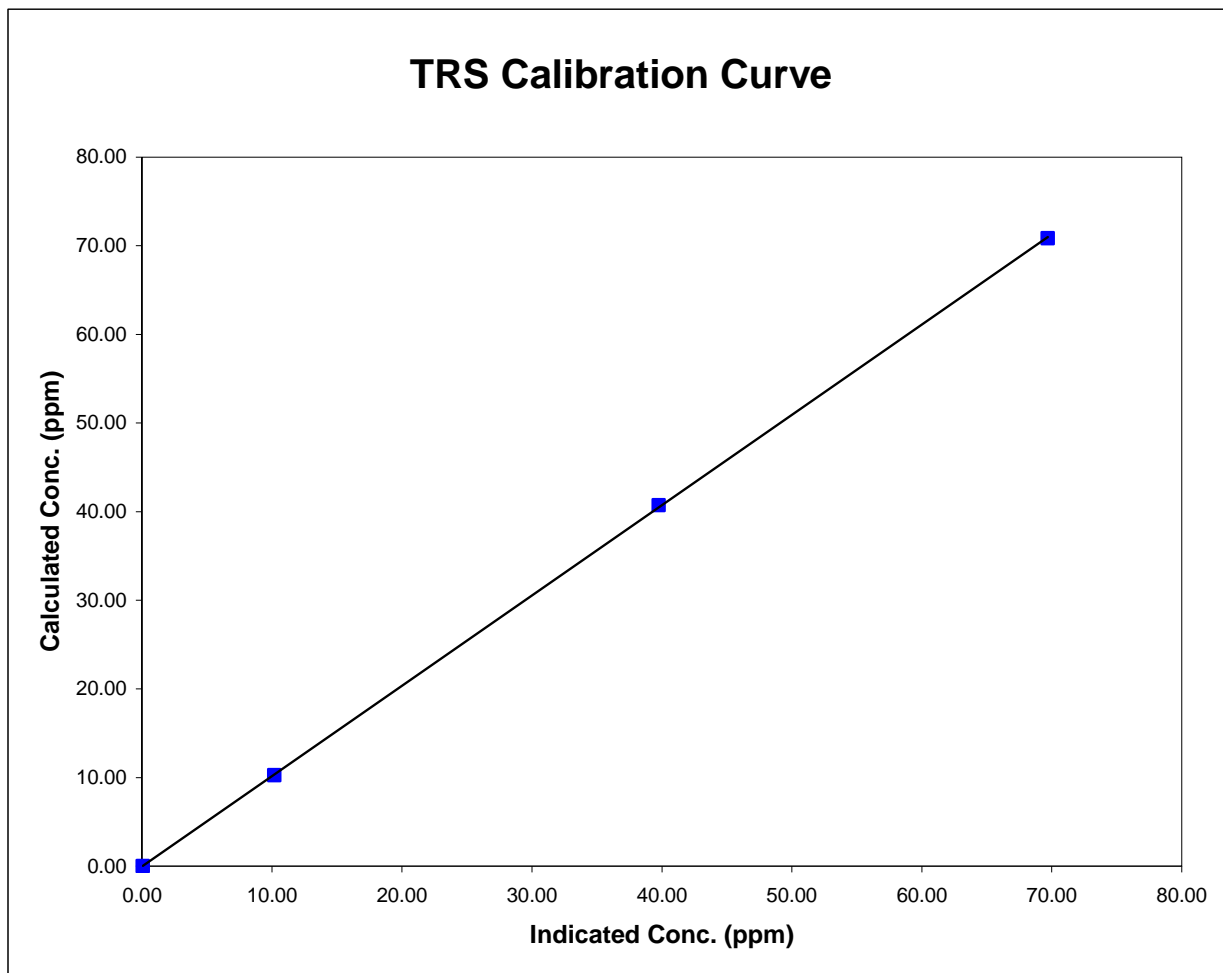
Parameter **TRS**Air Monitoring Network **PASZA**

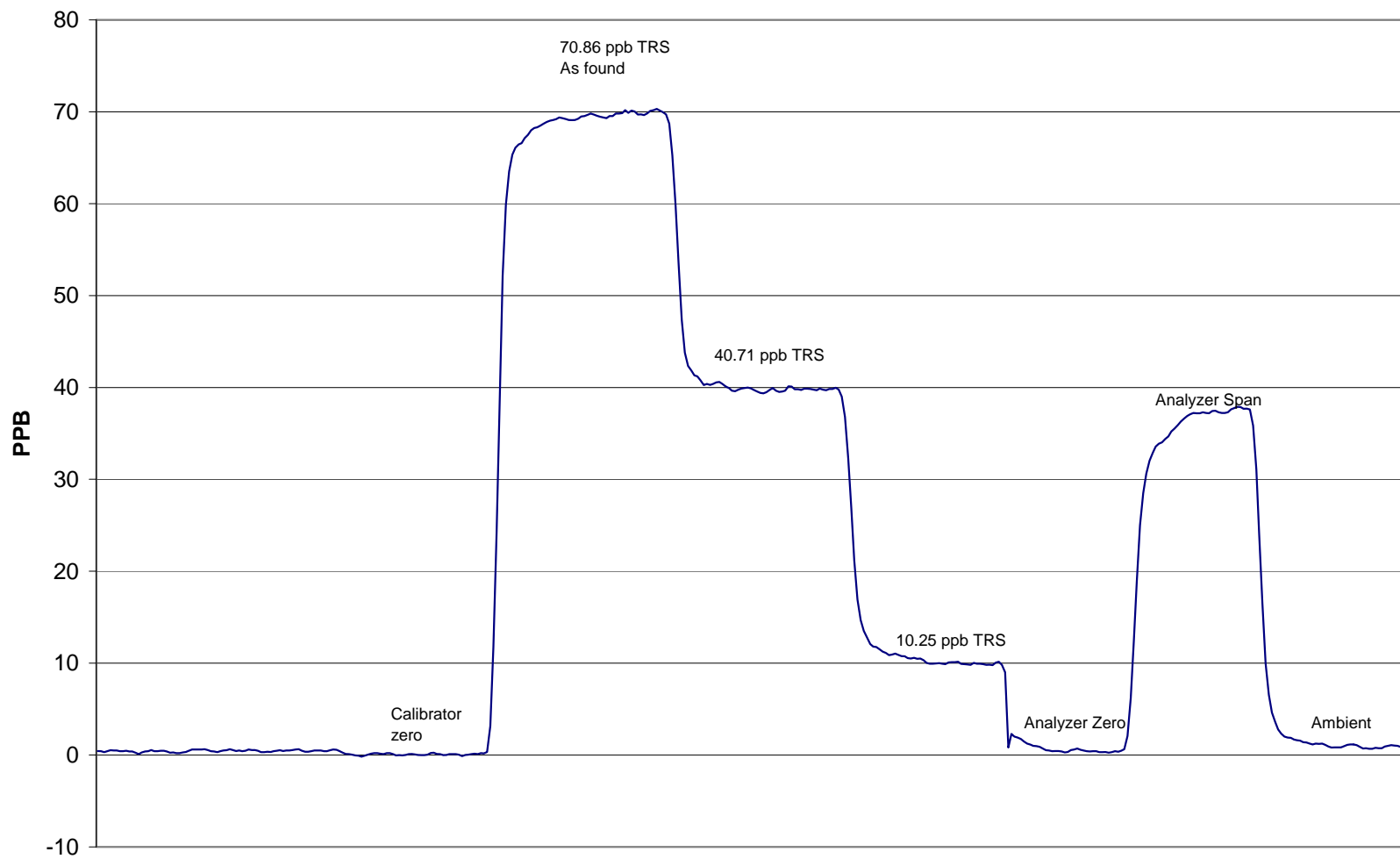
Station Information

Calibration Date	November 19, 2007	Previous Calibration	October 10, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	15:00	End Time (MST)	18:10
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	0.059	N/A		
70.856	69.701	1.0166	Correlation Coefficient	0.999975
40.713	39.769	1.0237		
10.253	10.196	1.0056	Slope	1.018865
			Intercept	-0.040509



Henry Pirker TRS Calibration**November 19, 2007**

Calibration Report



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

Station Information

Calibration Date	November 15, 2007	Previous Calibration	October 12, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:50	End Time (MST)	14:23
Barometric Pressure	0.911 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	0.030967	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	1.004370	Calculated slope	0.997865
Calculated intercept	1.172309	Calculated intercept	-1.638222
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.8		9	
coefficient	0.928		0.928	
Lamp Voltage	832	volts	836	volts
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	45	Deg C	44.99	Deg C
Pressure	679.5	mm Hg	656.2	mm Hg
Sample Flow	454	ccm	438	ccm
Lamp Intensity	90	%	90	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.00	0.7	N/A
4990	39.84	398.41	400.5	0.9948
4991	19.90	199.76	202.2	0.9880
4991	9.95	100.08	102.9	0.9726
zero	0.0	0.00	0.7	As Found Zero
4991	39.9	399.03	400.5	As Found Span
Average Correction Factor				0.9851

Calculated value of As Found Response: 402.652 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	1.9	ppm	-0.8	ppm
Auto span	283.3	ppm	280.2	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



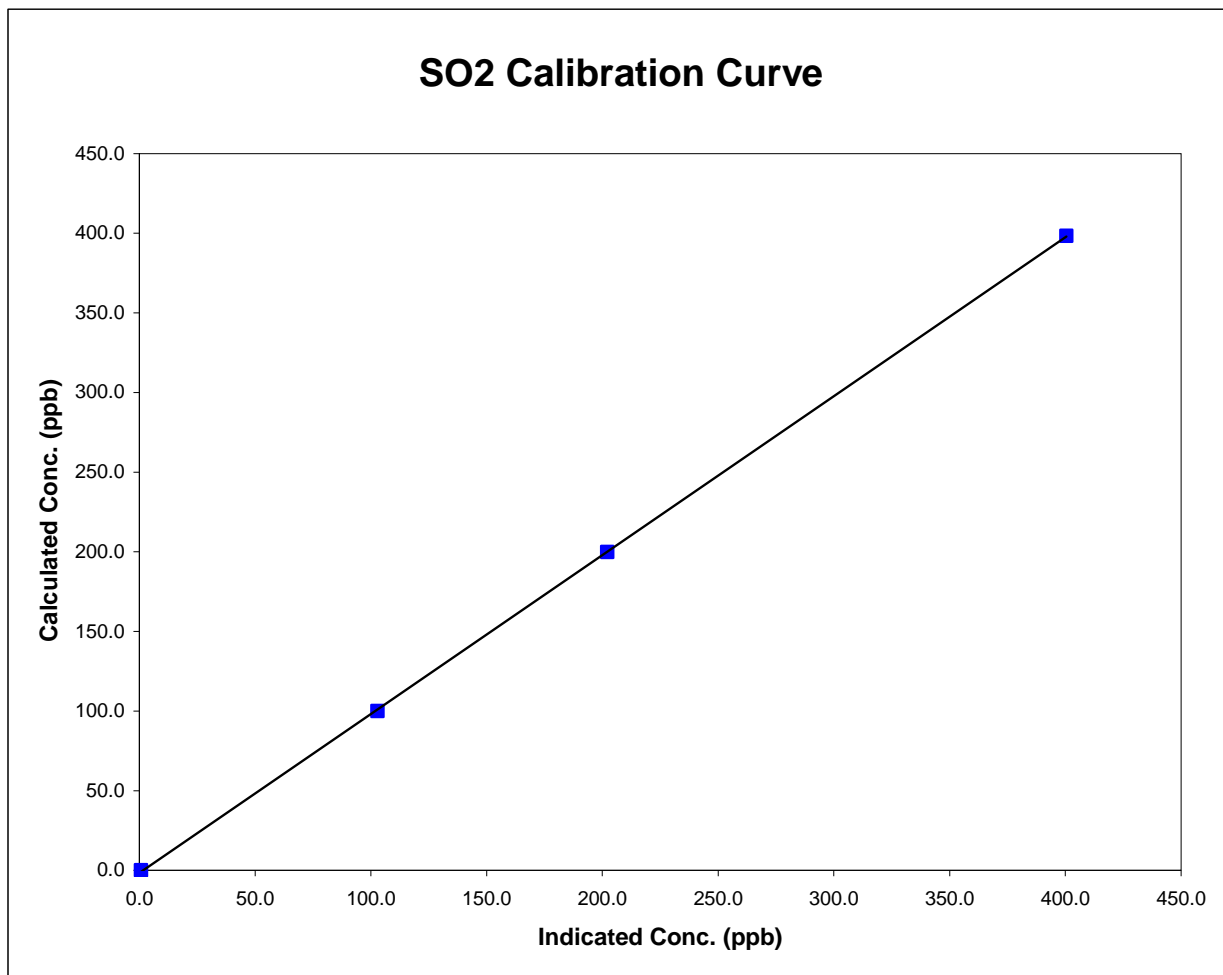
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

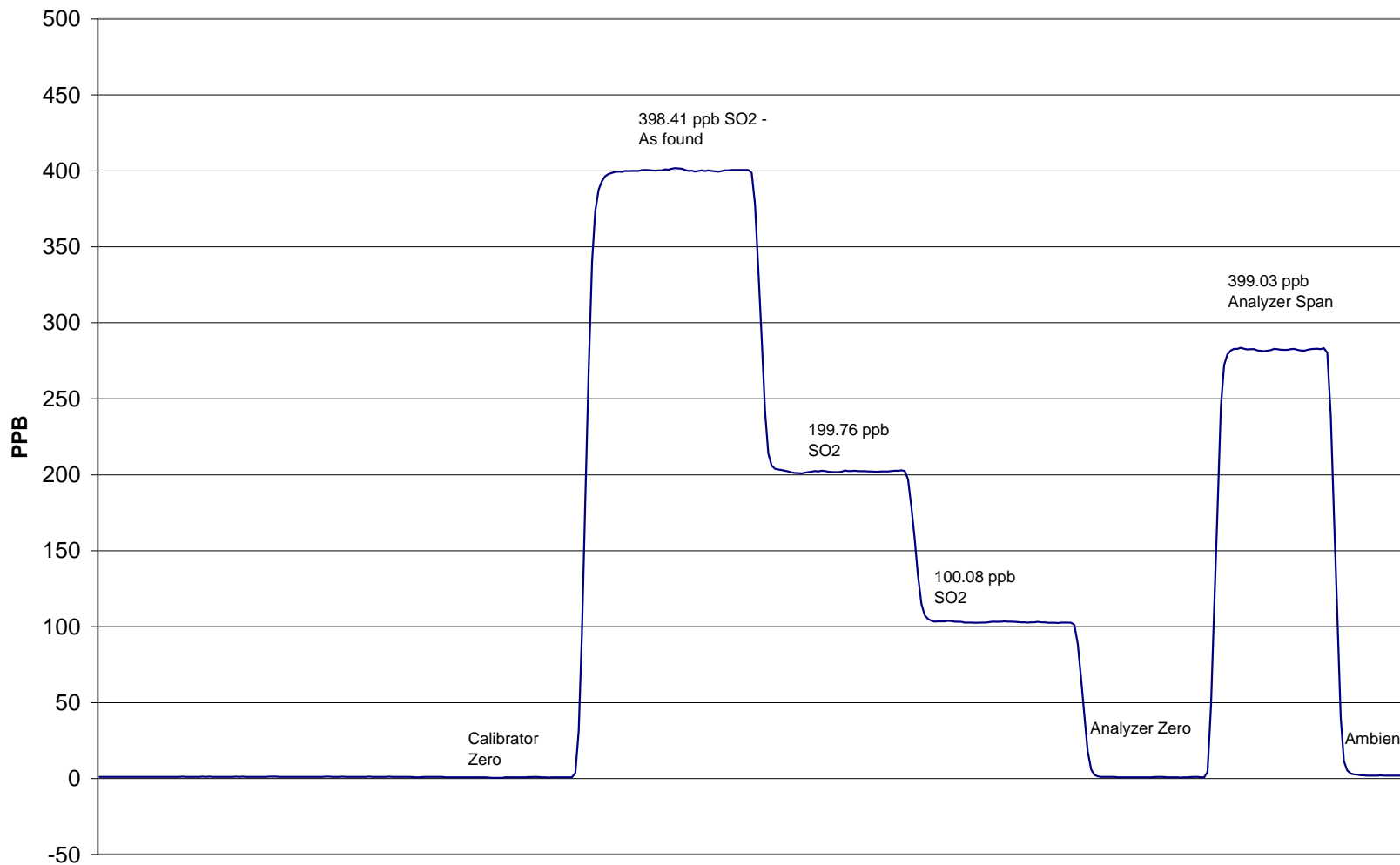
Calibration Date	November 15, 2007	Previous Calibration	October 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:50	End Time (MST)	14:23
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.7	N/A		
398.4	400.5	0.9948	Correlation Coefficient	0.999977
199.8	202.2	0.9880		
100.1	102.9	0.9726	Slope	0.997865
			Intercept	-1.638222



Evergreen Park SO2 Calibration



November 15, 2007

Calibration Report

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

Station Information

Calibration Date	November 15, 2007	Previous Calibration	October 12, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:10	End Time (MST)	13:04
Barometric Pressure	0.911 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	0.030967	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	1.010463	Calculated slope	0.985475
Calculated intercept	-0.311998	Calculated intercept	0.835791
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	14.1	ppb	15.9	ppb
coefficient	0.976		0.976	
Lamp Voltage	788	volts	786	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	647.3	mm Hg	639.9	mm Hg
Sample Flow	472	ccm	468	ccm
Lamp Intensity	46,177	mv	48,170	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.00	0.1	N/A
4991	79.79	80.88	81.6	0.9915
4991	39.85	40.72	40.2	1.0118
4991	19.90	20.41	18.8	1.0835
zero	0.00	0.00	1.4	As Found Zero
4996	80.00	81.01	79.0	As Found Span
Average Correction Factor				1.0289

Calculated value of As Found Response: 78.08 ppm Percent Change of As Found: 3.6%

	before calibration		after calibration	
Auto zero	0.9	ppm	0.4	ppm
Auto span	70.4	ppm	70.3	ppm

Notes: Calibrated ZeroCalibration Performed By: Conor Whiteley

Calibration Summary

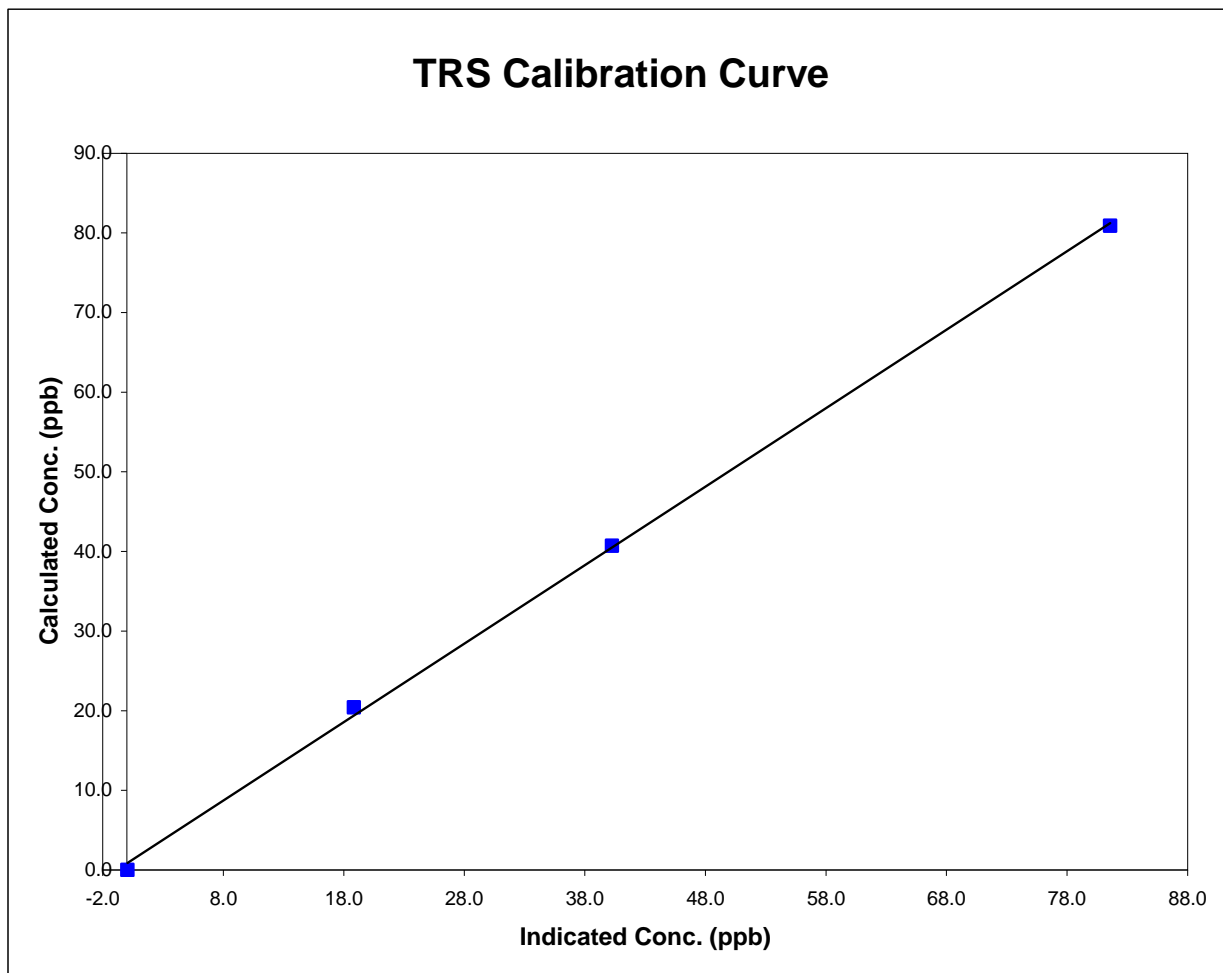
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

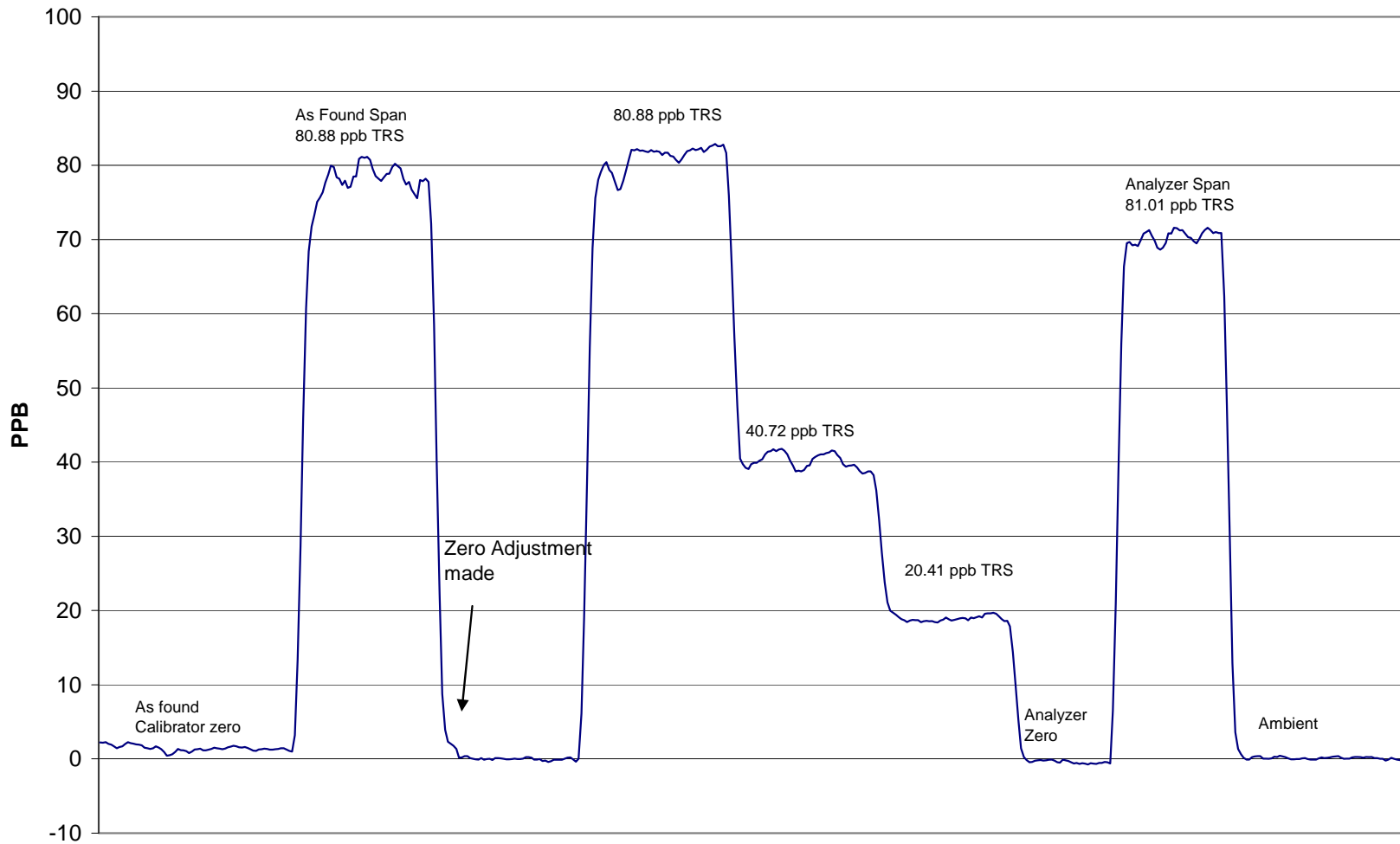
Calibration Date	November 15, 2007	Previous Calibration	October 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:10	End Time (MST)	13:04
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
80.9	81.6	0.9915	Correlation Coefficient	0.999445
40.7	40.2	1.0118		
20.4	18.8	1.0835	Slope	0.985475
			Intercept	0.835791



Evergreen Park TRS Calibration



November 15, 2007

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	November 28, 2007	Previous Calibration	October 5, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:25	End Time (MST)	14:15
Barometric Pressure	0.934 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	0.031749	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	0.999801	Calculated slope	1.001957
Calculated intercept	-2.896954	Calculated intercept	-1.421296
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	4.7		6.5	
coefficient	0.737		0.745	
Lamp Voltage	935	volts	938	volts
Chamber Temp	45.1	Deg C	45.2	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	670.2	mm Hg	680.1	mm Hg
Sample Flow	444	ccm	452	ccm
Lamp Intensity	88	%	88	%

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	0.2	N/A
4988	39.83	398.47	398.3	1.0004
4988	19.91	199.98	202.1	0.9893
4988	9.99	100.57	102.6	0.9798
zero	0.0	0.00	1.7	As Found Zero
4988	39.83	398.47	394.4	As Found Span
Average Correction Factor				0.9898

Calculated value of As Found Response: 389.692 ppm Percent Change of As Found: 2.2%

	before calibration		after calibration	
Auto zero	-1.5	ppm	-1.2	ppm
Auto span	310.4	ppm	305.3	ppm

Notes: Adjusted Zero, adjusted span

Calibration Performed By: Conor Whiteley

Calibration Summary



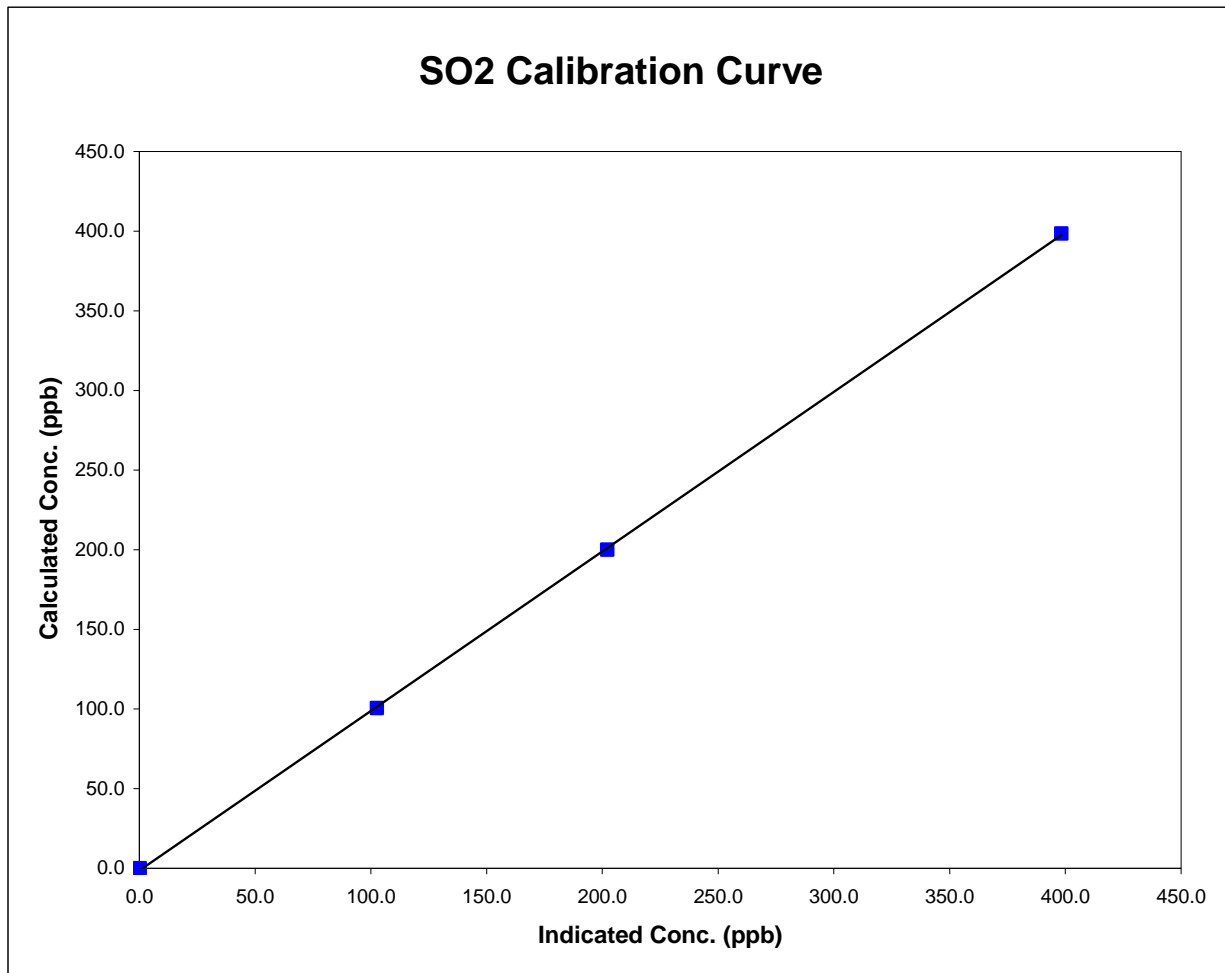
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

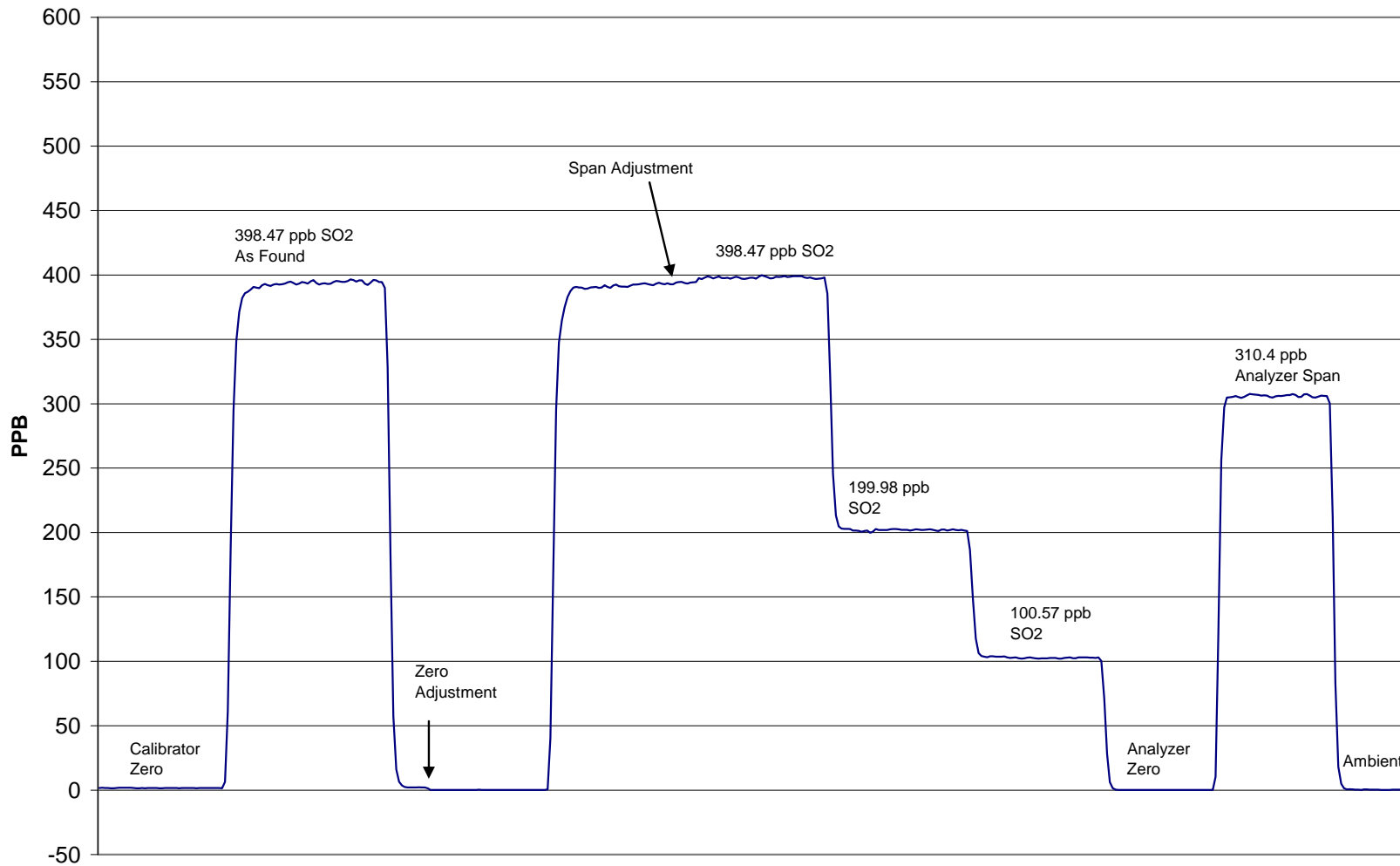
Calibration Date	November 28, 2007	Previous Calibration	October 5, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:25	End Time (MST)	14:15
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
398.5	398.3	1.0004	Correlation Coefficient	0.999953
200.0	202.1	0.9893		
100.6	102.6	0.9798	Slope	1.001957
			Intercept	-1.421296



Smoky Heights SO2 Calibration



November 28, 2007

Calibration Report

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

Station Information

Calibration Date	November 28, 2007	Previous Calibration	October 4, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:15	End Time (MST)	16:04
Barometric Pressure	0.934 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	0.031749	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	1.028180	Calculated slope	1.026207
Calculated intercept	-0.065138	Calculated intercept	-0.620893
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.2	ppb	11.1	ppb
coefficient	1.006		1.006	
Lamp Voltage	768	volts	771	volts
Chamber Temp	44	Deg C	43.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	504.3	mm Hg	508.5	mm Hg
Sample Flow	781	ccm	781	ccm
Lamp Intensity	32,327	mv	32,390	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.00	0.4	N/A
4990	79.72	80.83	79.2	1.0204
4990	39.83	40.70	40.6	1.0036
4990	9.93	10.21	10.6	0.9602
zero	0.0	0.00	0.4	As Found Zero
4990	79.7	80.83	79.2	As Found Span
Average Correction Factor				0.9947

Calculated value of As Found Response: 80.97 ppm Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	0.5	ppm	0.0	ppm
Auto span	44.8	ppm	43.1	ppm

Notes: No Adjustments Made

Calibration Performed By: Conor Whiteley

Calibration Summary

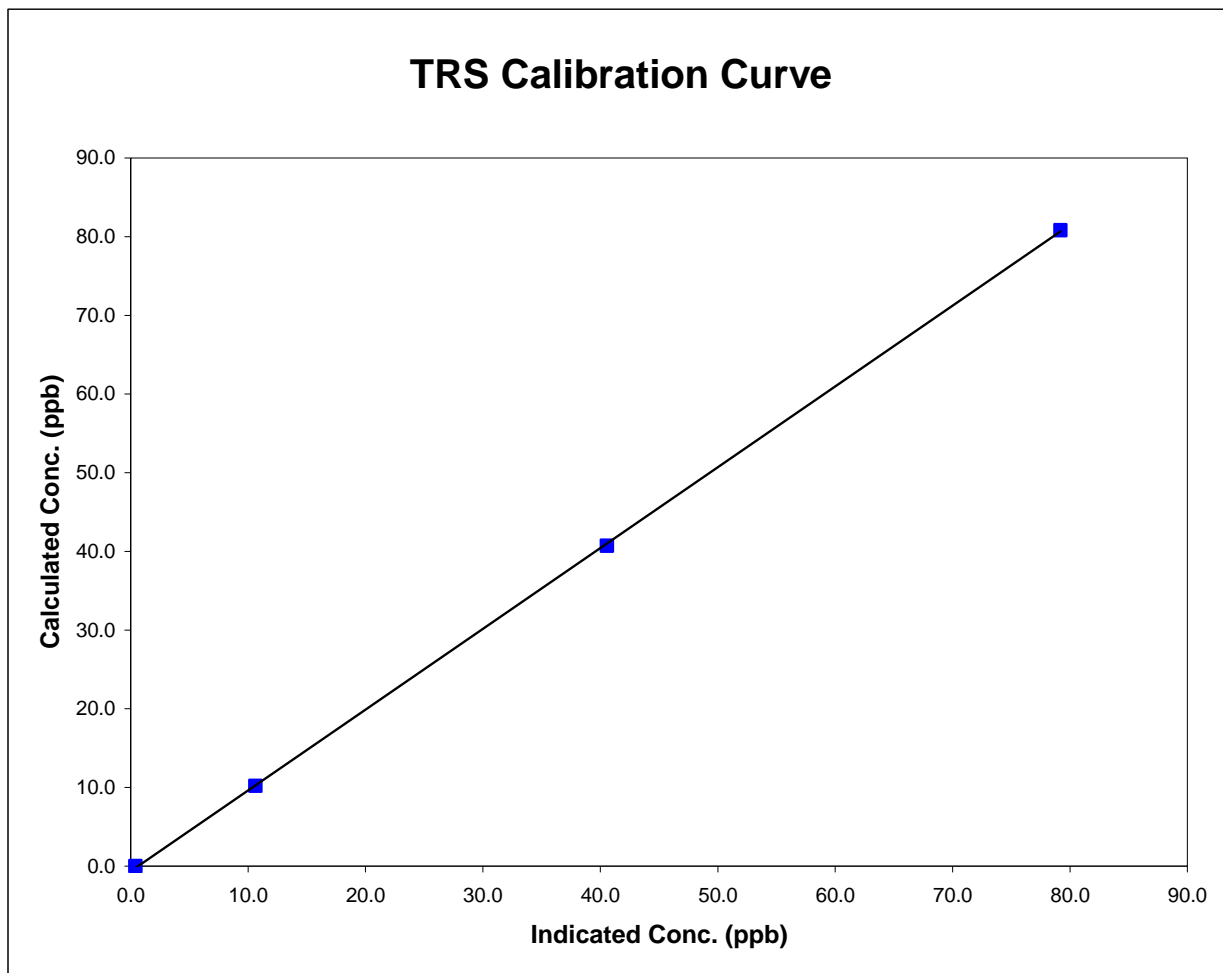
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

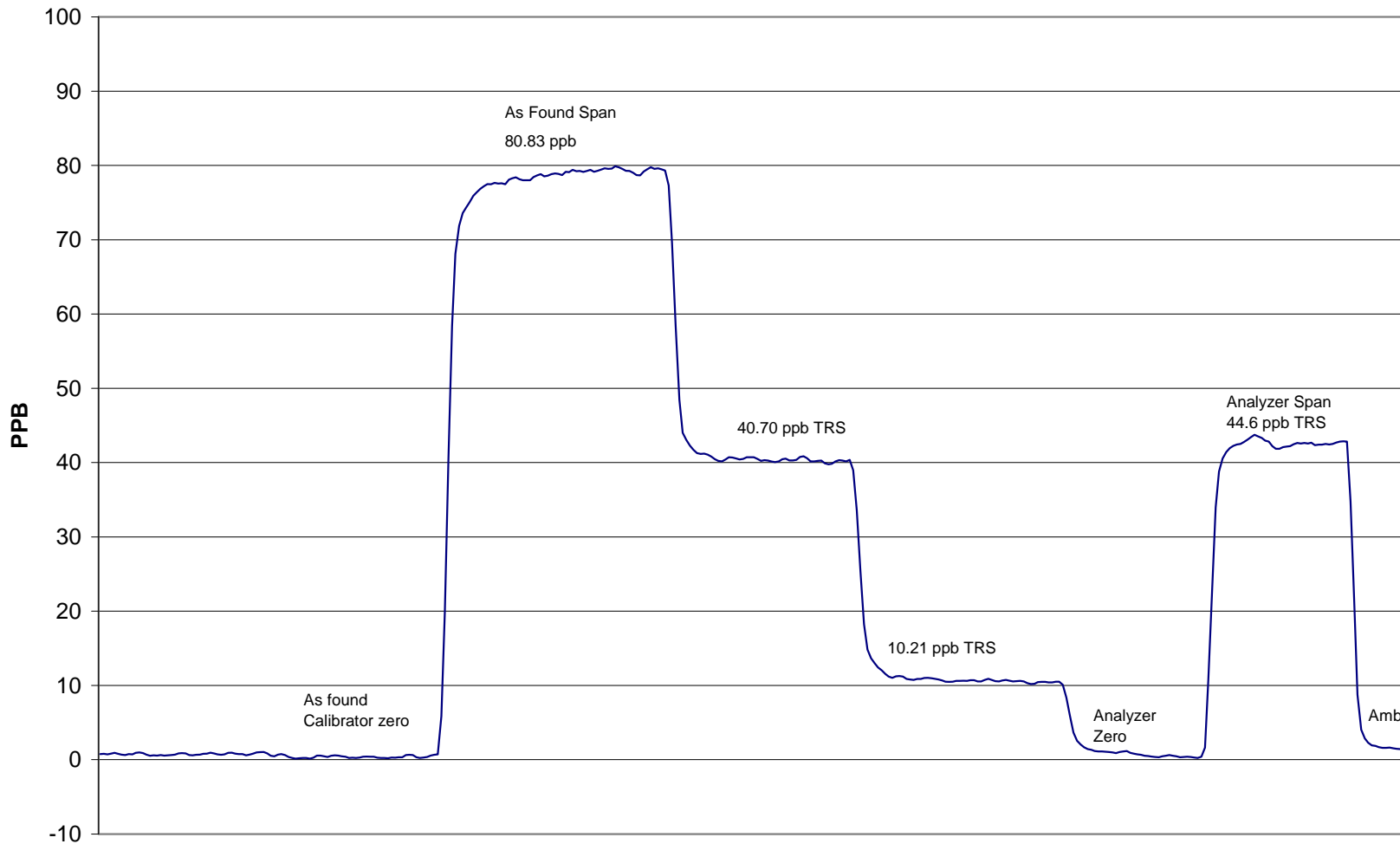
Calibration Date	November 28, 2007	Previous Calibration	October 4, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	13:15	End Time (MST)	16:04
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
80.8	79.2	1.0204	Correlation Coefficient	0.999958
40.7	40.6	1.0036		
10.2	10.6	0.9602	Slope	1.026207
			Intercept	-0.620893



Smoky Heights TRS Calibration



November 28, 2007

Calibration Report

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

Station Information

Calibration Date	November 9, 2007	Previous Calibration	October 25, 2007
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)	12:20	End Time (MST)	13:50
Barometric Pressure	0.918 atm	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.989268	Calculated slope	0.978898
Calculated intercept	1.336285	Calculated intercept	0.976445
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	3		2.98	
Coefficient	0.769		0.769	
PMT	-705	v	-705	v
UV Lamp Voltage	901	v	906	v
Chamber Temp	44.6	Deg C	44.3	Deg C
Pressure	650.7	mm Hg	656.6	mm Hg
Sample Flow	0.604	LPM	0.614	LPM
Lamp Intesity	29411	Hz	29202	Hz

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	-1.0	N/A
4990	39.83	79.7	80.4	0.9910
4992	0.00	0.0	-1.0	As found zero
4992	40.00	80.0	80.4	As found span
Average Correction Factor				0.9910

Calculated value of As Found Response: 81.843 ppm Percent Change of As Found: -2.3%

	before calibration		after calibration	
Auto zero	0.3	ppm	0.7	ppm
Auto span	26.1	ppm	23.8	ppm

Notes: Investigating the doubling of the span since Wednesday

Calibration Performed By: Conor Whiteley

Calibration Summary



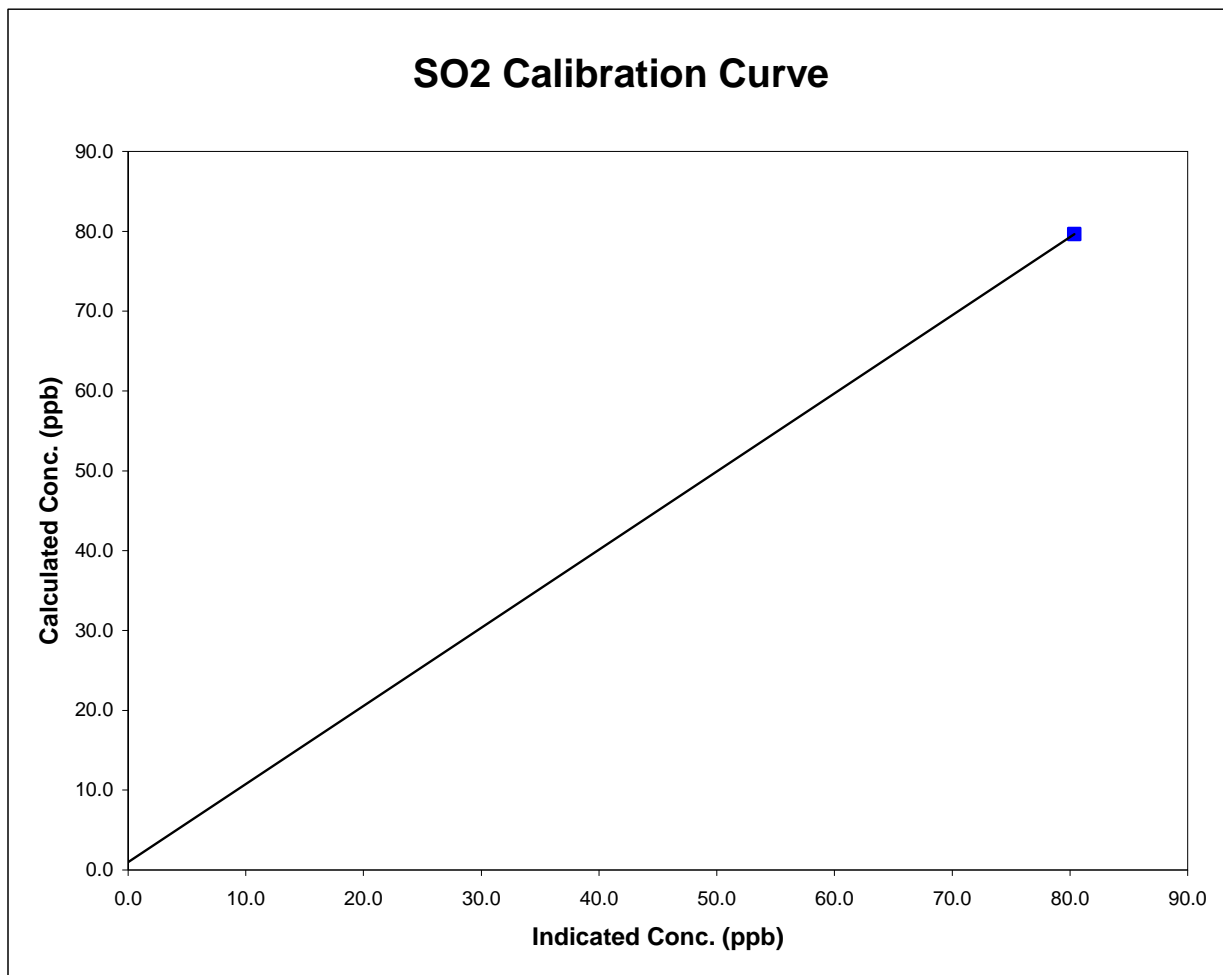
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

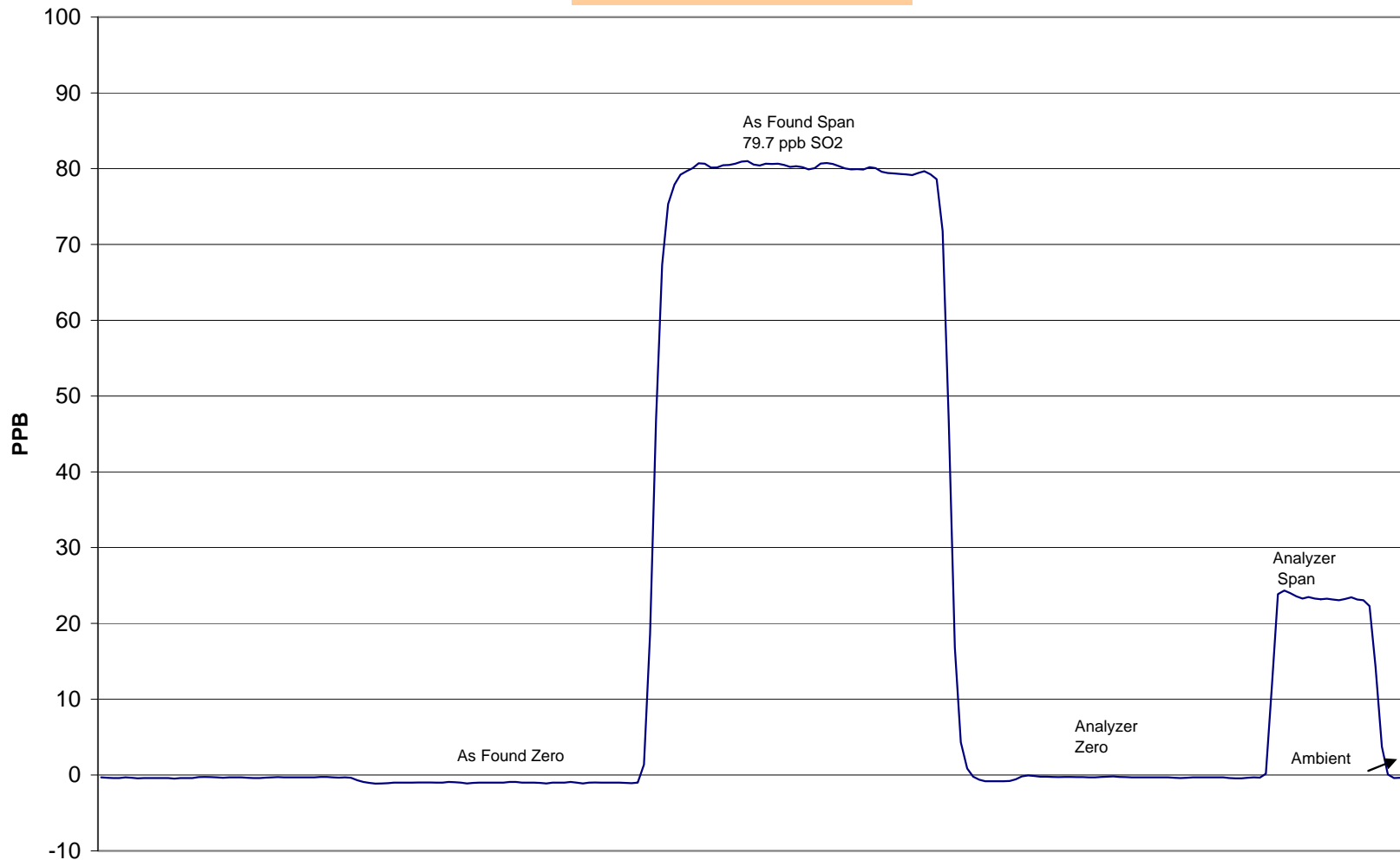
Calibration Date	November 9, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:20	End Time (MST)	13:50
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
79.7	80.4	0.9910	Correlation Coefficient	1.000000
			Slope	0.978898
			Intercept	0.976445



Beaverlodge SO2 Calibration



November 9, 2007

Calibration Report

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

Station Information

Calibration Date	November 13, 2007	Previous Calibration	November 9, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	16:00	End Time (MST)	19:00
Barometric Pressure	0.909 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	NA	Calculated slope	1.001394
Calculated intercept	NA	Calculated intercept	-0.011291
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	NA		2.98	
Coefficient	NA		0.769	
PMT	NA	V	-705	V
UV Lamp Voltage	NA	V	906	V
Chamber Temp	NA	Deg C	44.3	Deg C
Pressure	NA	mm Hg	656.6	mm Hg
Sample Flow	NA	LPM	0.614	LPM
Lamp Intesity	NA	Hz	29202	Hz

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)
4992	0.00	0.0	0.0	N/A
4992	39.87	79.7	79.5	1.0020
4992	19.93	40.0	40.1	0.9973
4992	9.96	20.0	19.9	1.0041
4992	0.00	0.0	0.0	As found zero
4992	8.00	16.1	79.5	As found span
Average Correction Factor				1.0011

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppm	0.0	ppm
Auto span	NA	ppm	51.3	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



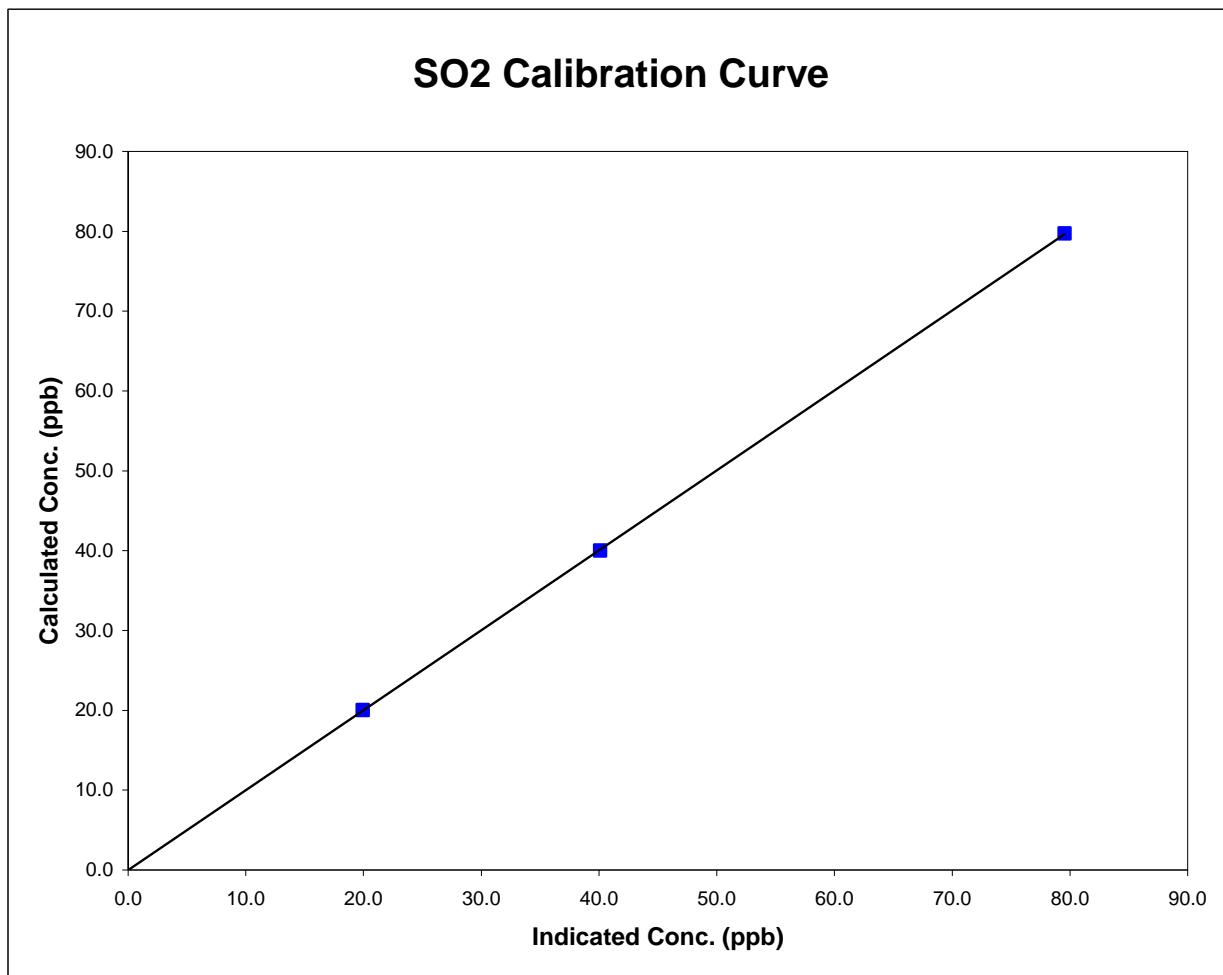
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

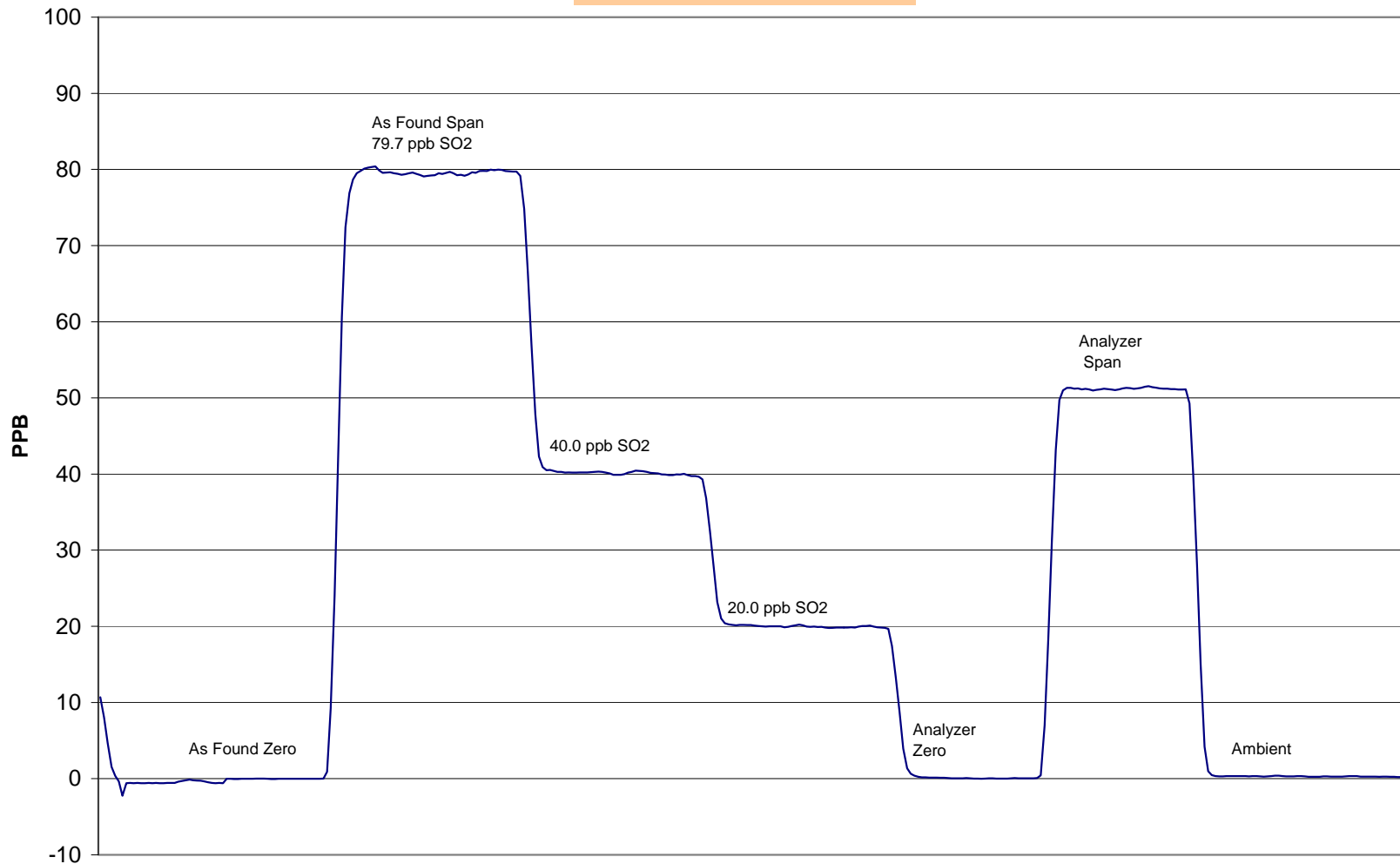
Calibration Date	November 13, 2007	Previous Calibration	November 9, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	16:00	End Time (MST)	19:00
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
79.7	79.5	1.0020	Correlation Coefficient	0.999991
40.0	40.1	0.9973		
20.0	19.9	1.0041	Slope	1.001394
			Intercept	-0.011291



Beaverlodge SO2 Calibration



November 13, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	November 13, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	Routine	Installation	Removal
Start Time (MST)	11:30:00	End Time (MST)	15:50:00
Barometric Pressure	0.909 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	0.981793	0.982289	0.985725
	Data Offset	0.111003	-0.900604	-0.888744
After	Data Slope	0.973828	0.977952	0.980823
	Data Offset	0.275670	-1.707589	-1.167270
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	-635	V	-635	V
Chamber Temp	49.4	Deg C	49.4	Deg C
Cooler Temp	-2.1	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	0.785	LPM	0.806	LPM
Ozonator Flow	0.085	LPM	0.086	LPM
Pressure	168.5	mm Hg	174.7	mm Hg

Notes: Zero air was cut off just as the second point was set, nox bloomed for a moment then zero air resumed.

Calibration Report

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



Station Information

Calibration Date: **November 13, 2007** 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	4991	0.00	0.0	0.0	0.0	0.3	-0.3	0.2	N/A	N/A
1	4991	39.92	398.3	397.5	0.8	408.2	405.6	2.2	0.9758	0.9800
2	4991	19.93	199.7	199.3	0.4	207.0	205.3	1.0	0.9648	0.9705
3	4991	9.96	100.0	99.8	0.2	105.3	104.3	0.5	0.9498	0.9563
AFZ	4991	0.00	0.0	0.0	0.0	0.3	-0.3	0.2	0.0000	0.0000
AFS	4991	39.92	398.3	397.5	0.8	408.2	405.6	2.2	0.9758	0.9800
Average Correction Factor									0.9635	0.9689

As Found Concentrations: NO_x= 407.0 NO= 405.1 As Found Percent Change NO_x= 2.2% NO= 1.9%

GPT Calibration Data

Dilution Flow 4991 ccm Source Gas Flow 39.92 ccm

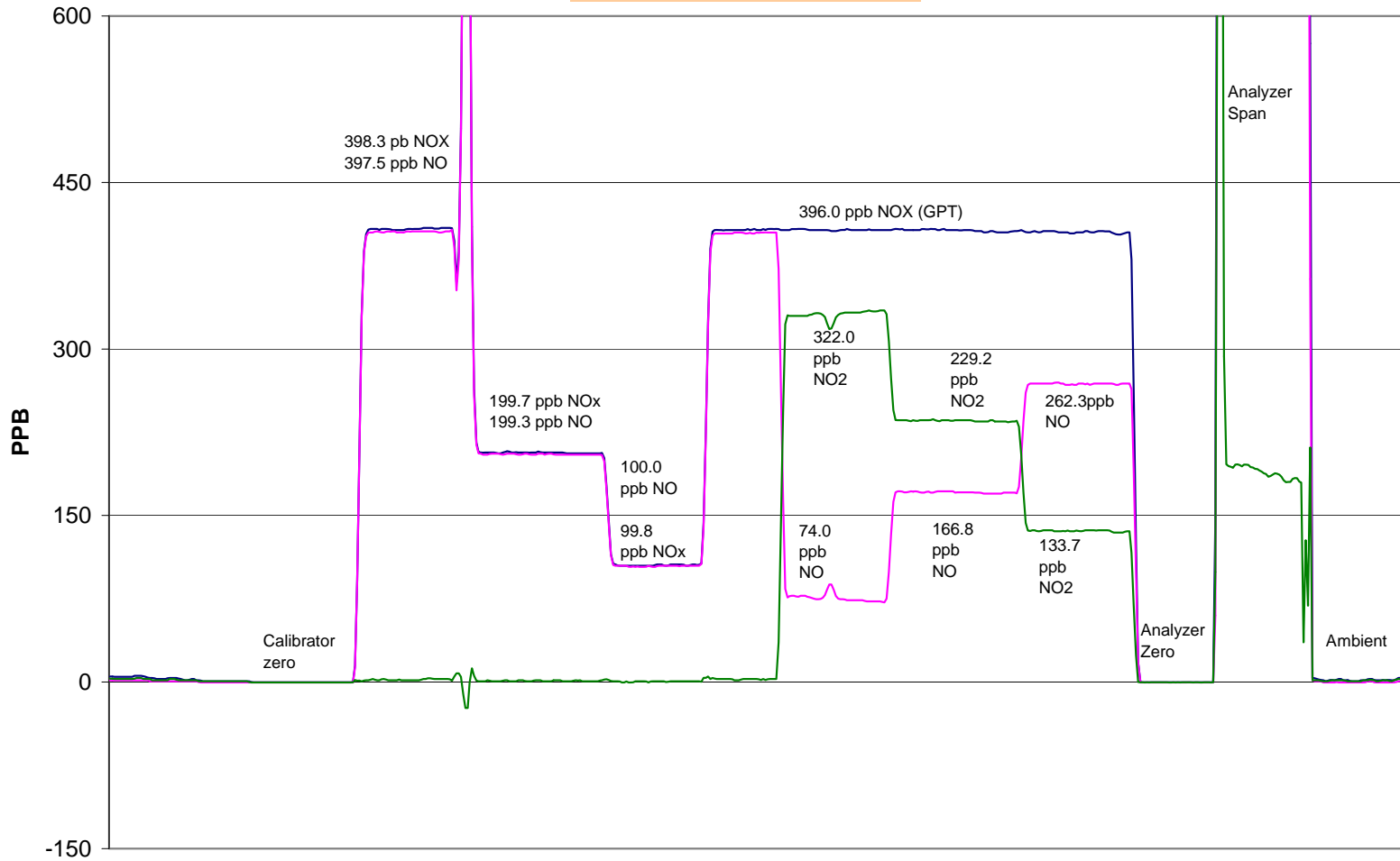
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	396.0	395.4	0.6	407.2	404.3	2.4	0.9725	0.9779	N/A	N/A
300	396.0	74.0	322.0	407.5	76.6	330.4	0.9717	0.9656	0.9745	102.6%
200	396.0	166.8	229.2	407.5	171.2	235.6	0.9718	0.9740	0.9726	102.8%
100	396.0	262.3	133.7	405.0	268.6	135.9	0.9778	0.9765	0.9837	101.7%
Average Correction Factor							0.9738	0.9720	0.9770	102.4%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO	ppb	NO _x	NO ₂	NO	ppb
Auto zero	-1.1	-0.2	-1.2	ppb	-1.9	0.0	-1.5	ppb
Auto span	484.9	13.8	472.1	ppb	974.9	183.6	977.2	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



Calibration Summary

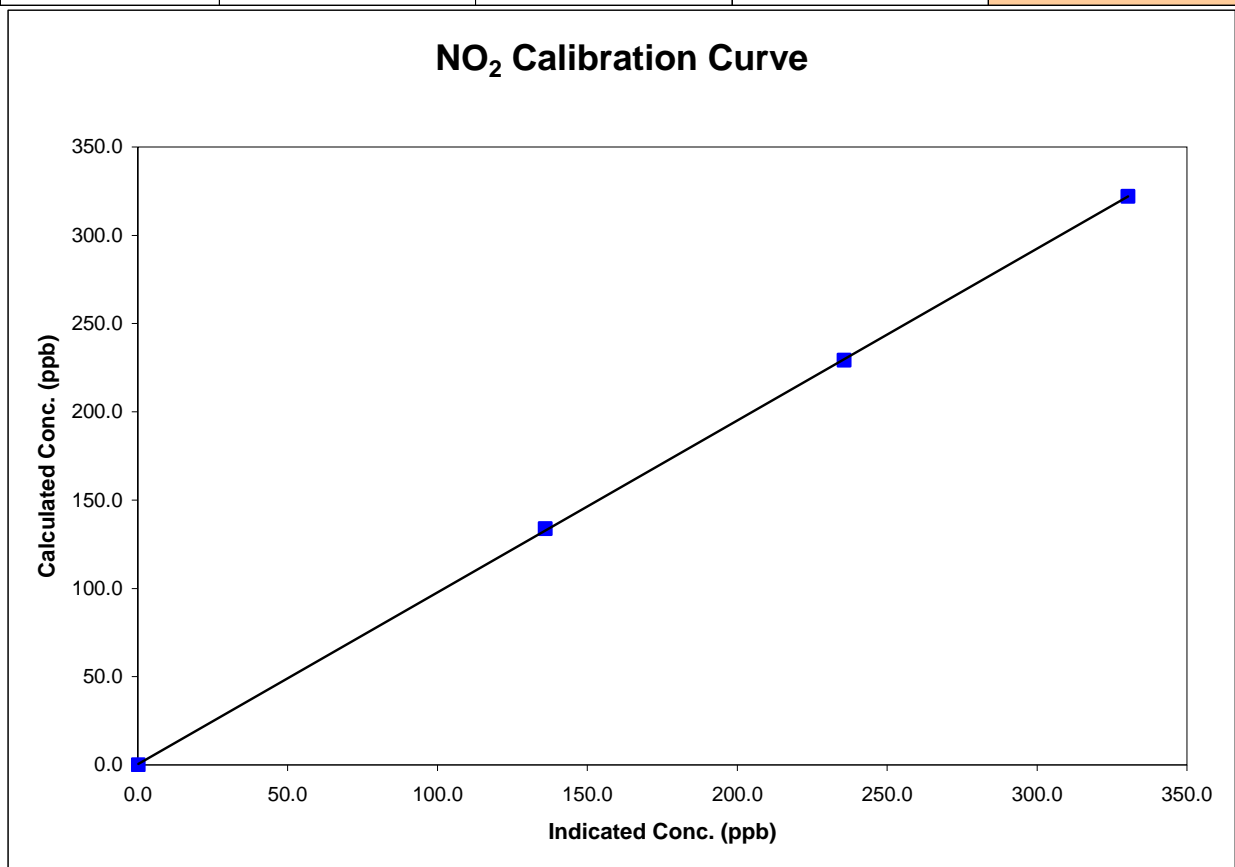
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	November 13, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:30	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999971
322.0	330.4	0.9745		
229.2	235.6	0.9726		
133.7	135.9	0.9837		
			Slope	0.973828
			Intercept	0.275670



Calibration Summary

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

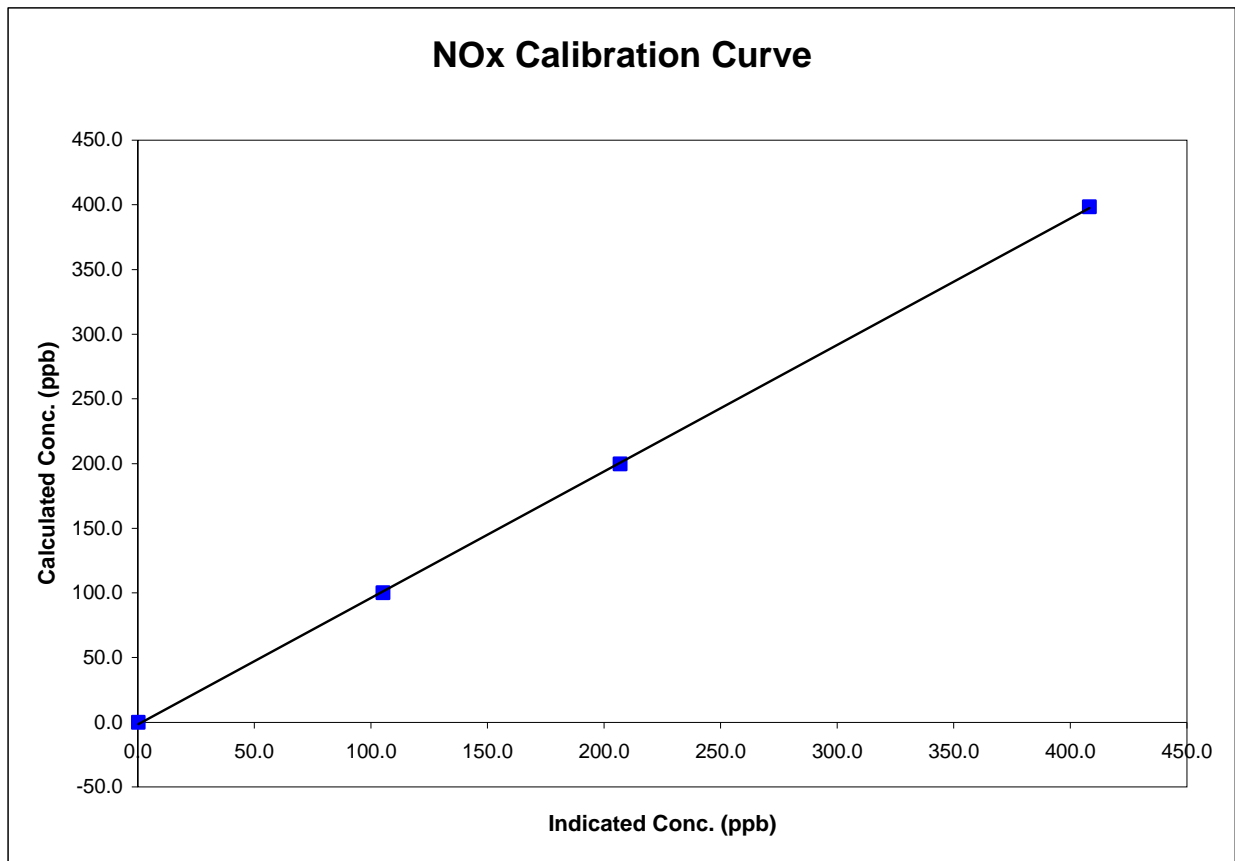


Station Information

Calibration Date	November 13, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:30	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000	Correlation Coefficient	0.999938
398.3	408.2	0.9758		
199.7	207.0	0.9648		
100.0	105.3	0.9498		
			Slope	0.977952
			Intercept	-1.707589



Calibration Summary

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

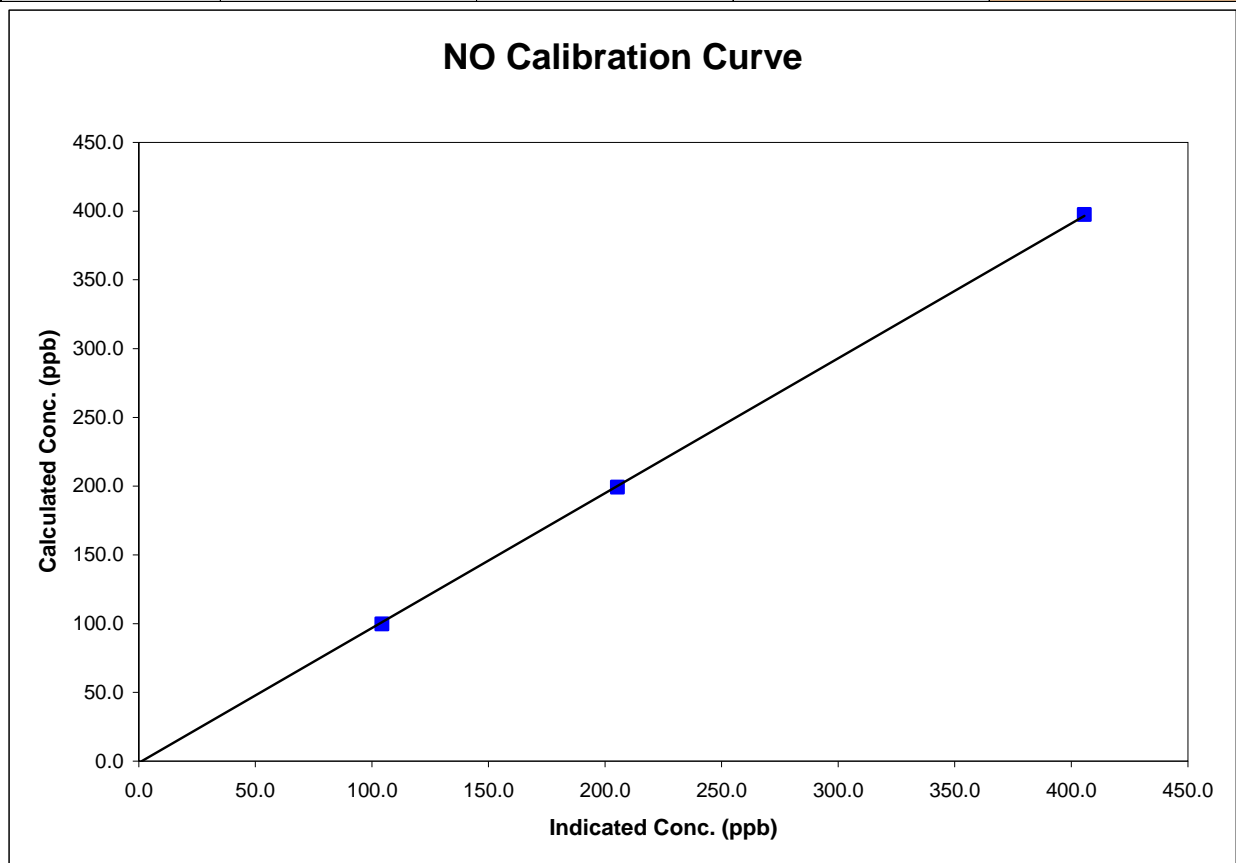


Station Information

Calibration Date	November 13, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:30	End Time (MST)	15:50
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
397.5	405.6	0.9800	Correlation Coefficient	0.999933
199.3	205.3	0.9705		
99.8	104.3	0.9563		
			Slope	0.980823
			Intercept	-1.167270



Calibration ReportParameter **O3**Air Monitoring Network **PASZA****Station Information**

Calibration Date	November 14, 2007	Previous Calibration	October 25, 2007
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)	9:30	End Time (MST)	12:50
Barometric Pressure	0.920 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
	<u>Before</u>		<u>After</u>
Calculated slope	1.073143	Calculated slope	0.972885
Calculated intercept	0.826931	Calculated intercept	6.125586
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	0.995		1.074	
Lamp temp	56.3	mV	56.3	mV
Lamp Intensity A/B	79469/76867	mV	79654/77070	mV
Pressure	674.1	mm Hg	672.7	mm Hg
Flow A	736	ccm	742	ccm
Flow B	693	ccm	697	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	0.2	N/A
4990	0.00	322.0	330.1	0.9755
4990	0.00	229.2	226.2	1.0134
4990	0.00	133.7	122.3	1.0931
4990	0.00	0.0	0.2	As found zero
4990	0.00	322.0	306.7	As found span
Average Correction Factor				1.0273

Calculated value of As Found Response: 329.7 ppm Percent Change of As Found: 2.4%

	before calibration		after calibration	
Auto zero	0.9	ppb	6.1	ppb
Auto span	117.2	ppb	119.0	ppb

Notes: Adjusted O3 as found high pointCalibration Performed By: Conor Whiteley

Calibration Summary

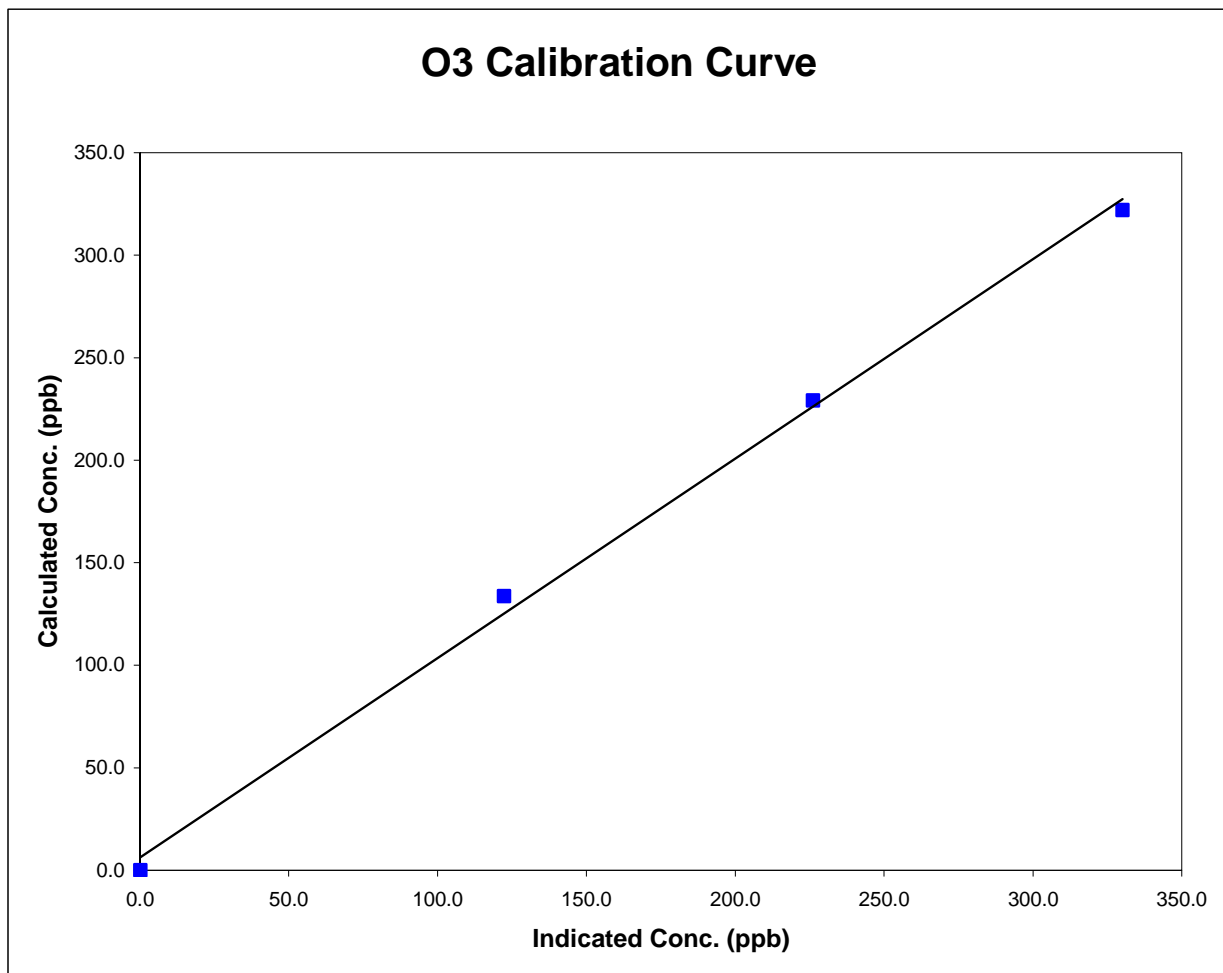
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

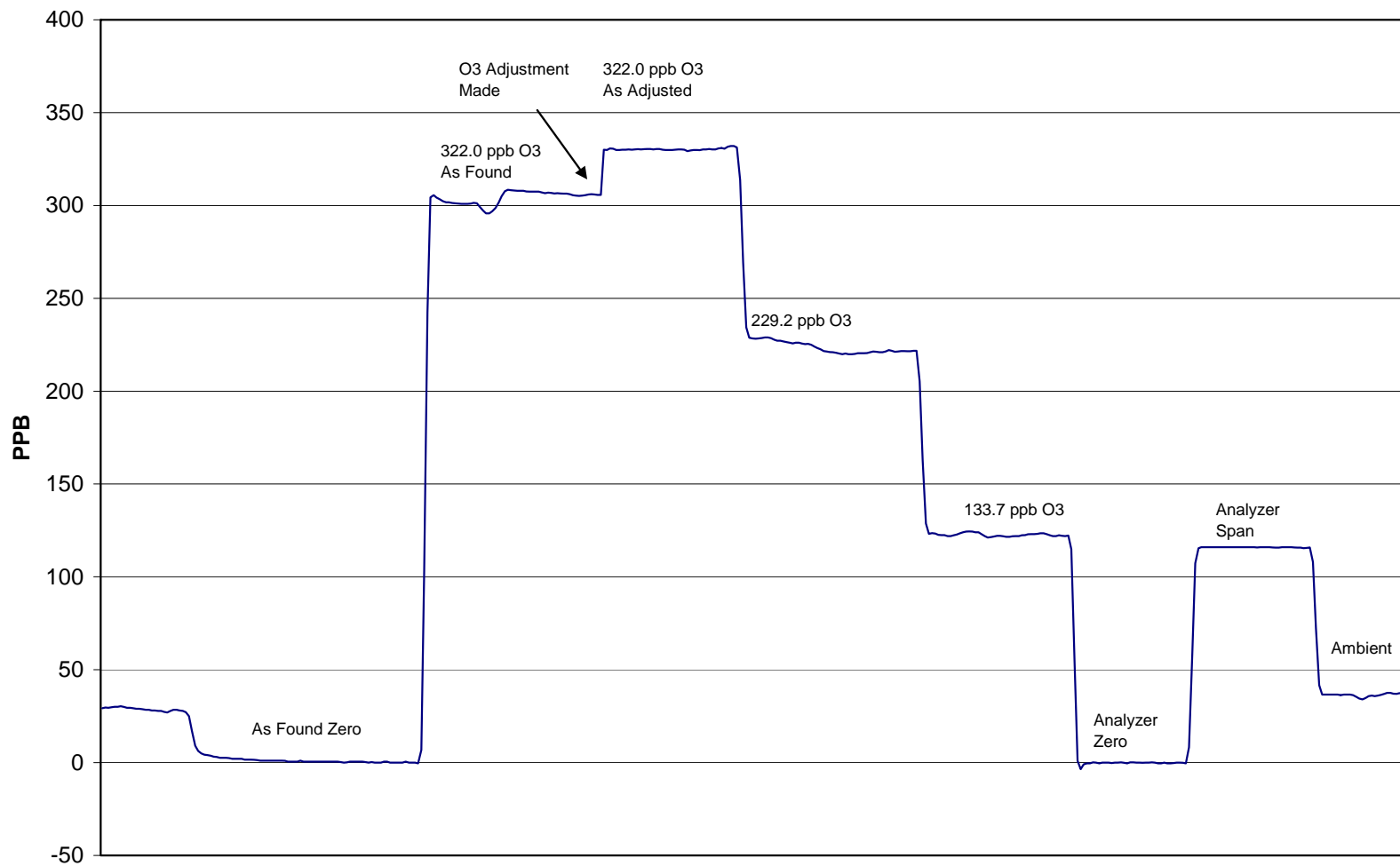
Calibration Date	November 14, 2007	Previous Calibration	October 25, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:30	End Time (MST)	12:50
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
322.0	330.1	0.9755	Correlation Coefficient	0.997345
229.2	226.2	1.0134		
133.7	122.3	1.0931	Slope	0.972885
			Intercept	6.125586



Beaverlodge O3 Calibration



November 14, 2007

Calibration Report

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

Station Information

Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
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)	12:50	End Time (MST)	16:50
Barometric Pressure	27.43 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.006418	Calculated slope	0.997191
Calculated intercept	-0.366202	Calculated intercept	-0.632348
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	7.9		7.9	
Coefficient	1.137		1.156	
UV Lamp Voltage	736	V	740	V
Chamber Temp	44.4	C	44.4	C
Perm Gas Temp	45	C	45	C
Pressure	678.7	mm Hg	689.6	mm Hg
Sample Flow	489	LPM	494	LPM
Lamp Intesity	34290	Hz	33971	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)
4992	0.00	0.0	0.1	N/A
4992	39.84	398.3	400.6	0.9943
4992	19.85	199.2	198.2	1.0054
4992	9.93	99.8	103.0	0.9693
4992	0.00	0.0	0.1	As found zero
4992	39.94	399.2	391.2	As found span
Average Correction Factor				0.9896

Calculated value of As Found Response: 393.213 ppm Percent Change of As Found: 1.5%

	before calibration		after calibration	
Auto zero	3.0	ppm	-0.5	ppm
Auto span	276.6	ppm	268.8	ppm

Notes: Adjusted SO2 Span

Calibration Performed By: Conor Whiteley

Calibration Summary



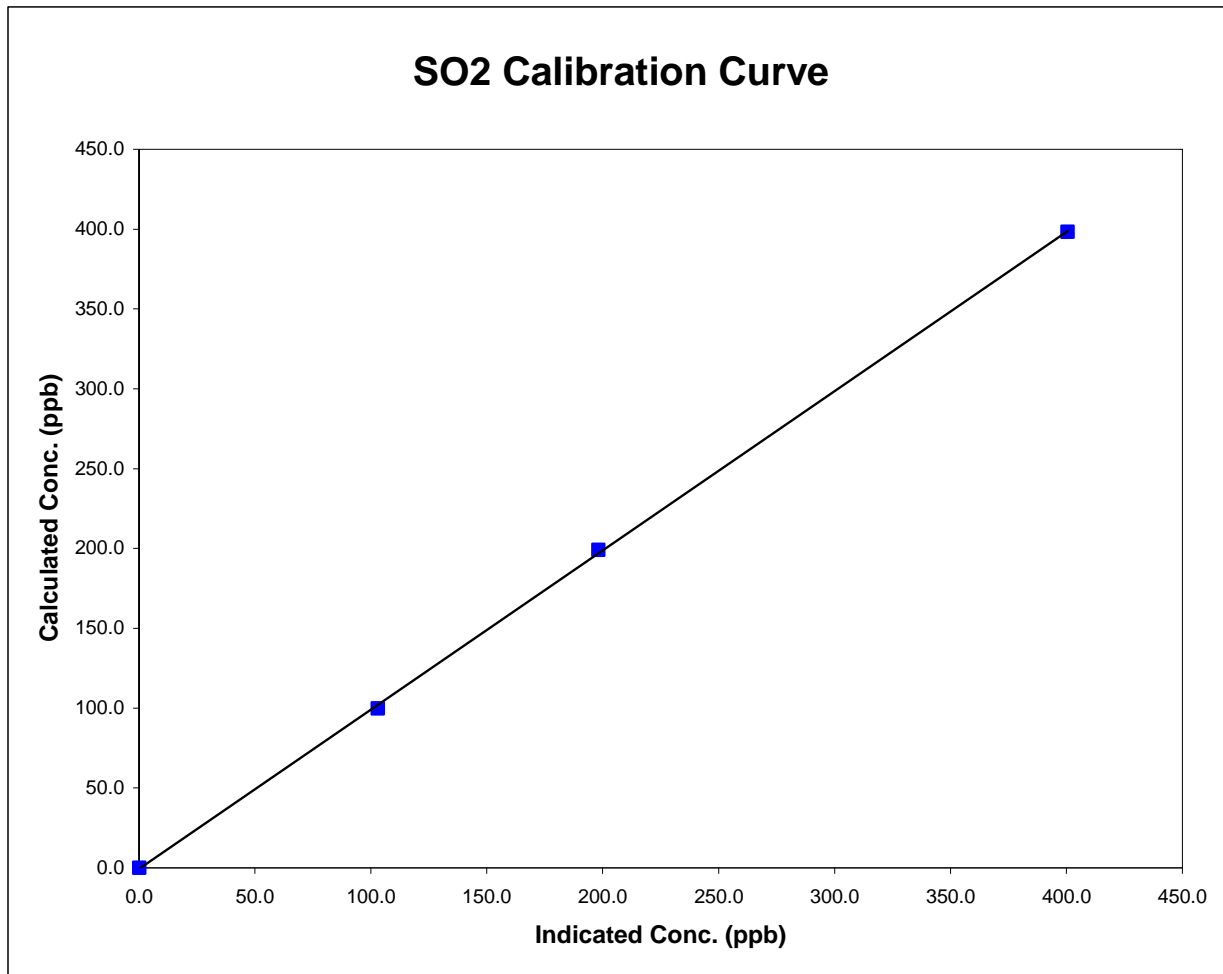
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

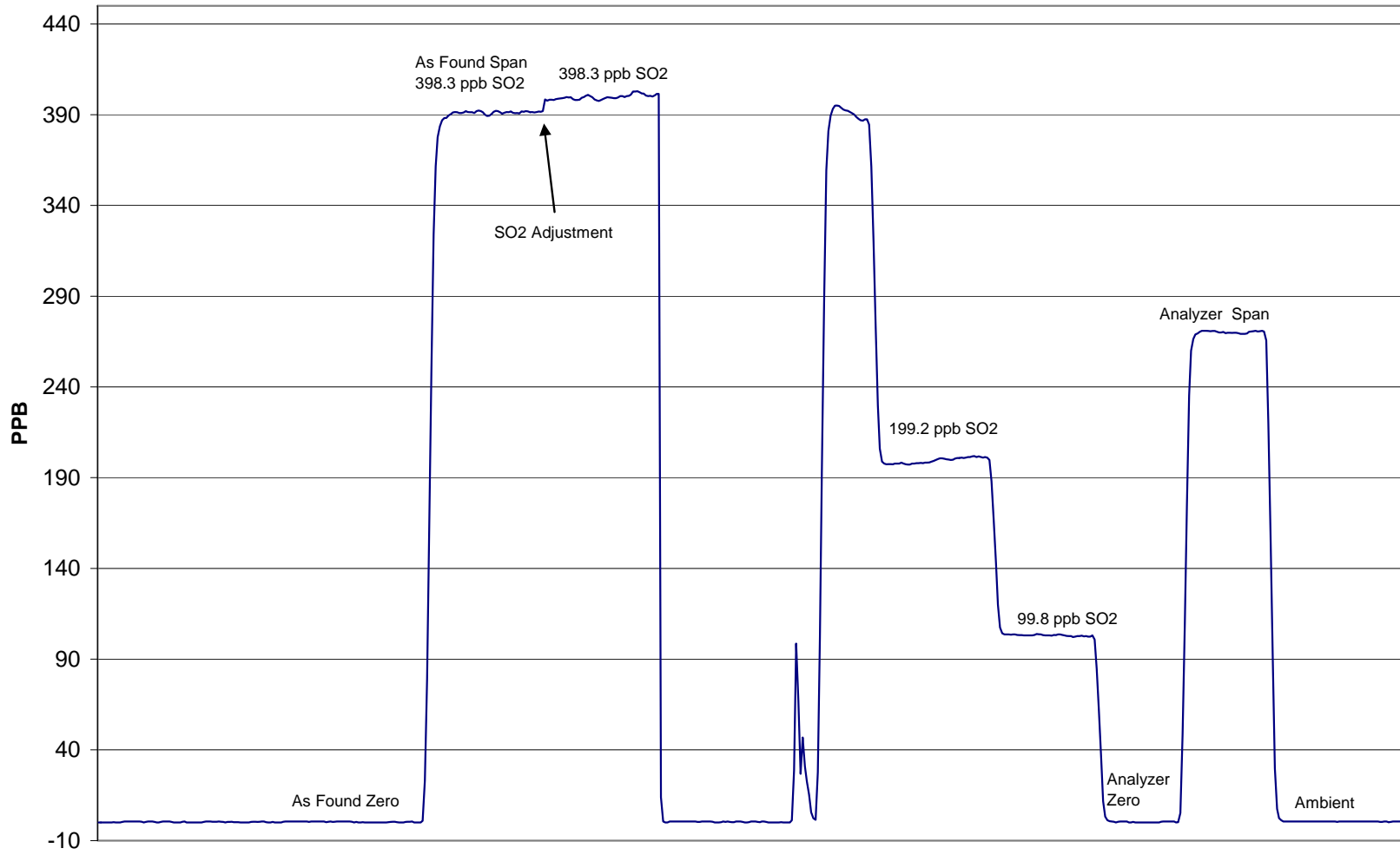
Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:50	End Time (MST)	16:50
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
398.3	400.6	0.9943	Correlation Coefficient	0.999877
199.2	198.2	1.0054		
99.8	103.0	0.9693	Slope	0.997191
			Intercept	-0.632348



Spirit River SO2 Calibration



November 6, 2007

Calibration Report

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

Station Information

Calibration Date	November 7, 2007	Previous Calibration	October 16, 2007
Station Number	6	Station Location	Portable - Spirit River
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)	16:45
Barometric Pressure	28.0 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.004783	Calculated slope	0.999356
Calculated intercept	0.584556	Calculated intercept	0.486632
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	4.8	ppb	4.8	ppb
Coefficient	1.055		1.055	
Lamp Voltage	801	V	800	V
Chamber Temp	43.9	C	44.0	C
Perm gas Temp	45	C	45	C
Pressure	675	mmHg	669	mmHg
Sample Flow	441	ccm	445	ccm
Lamp Intensity	38522.0	Hz	37857.0	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)
4992	0.0	0.0	-0.4	N/A
4992	69.74	70.8	70.4	1.0055
4992	39.93	40.8	40.3	1.0132
4992	9.96	10.2	9.7	1.0583
4992	0.00	0.0	-0.4	As found zero
4992	69.74	70.8	70.4	As found span
Average Correction Factor				1.0257

Calculated value of As Found Response: 71.74 ppm Percent Change of As Found: -1.3%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.1	ppm
Auto span	80.0	ppm	78.3	ppm

Notes: No adjustments madeCalibration Performed By: Conor Whiteley

Calibration Summary

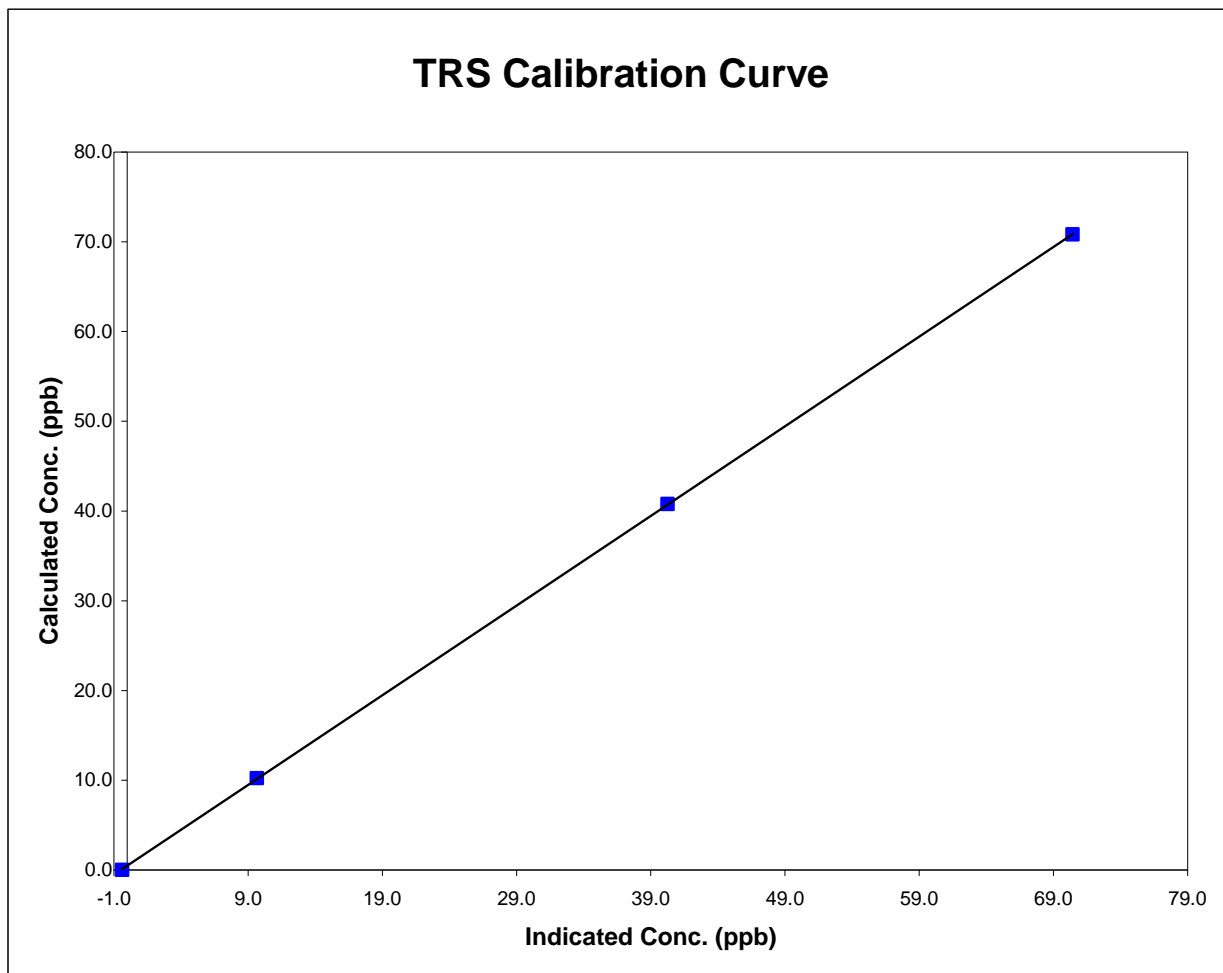
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

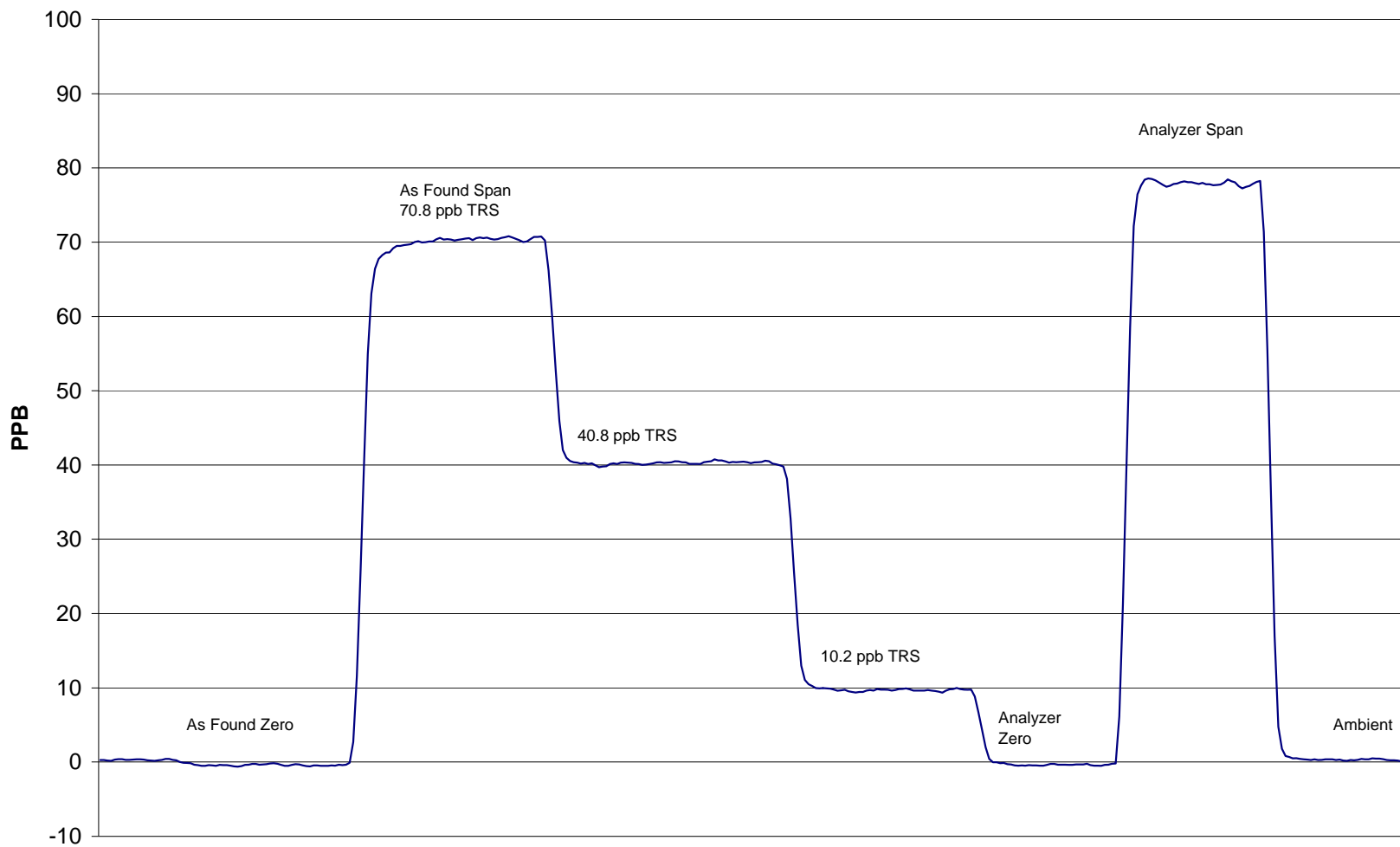
Calibration Date	November 7, 2007	Previous Calibration	October 16, 2007
Station Number	6	Station Location	Portable - Spirit River
Start Time (MST)	14:00	End Time (MST)	16:45
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
70.8	70.4	1.0055	Correlation Coefficient	0.999992
40.8	40.3	1.0132		
10.2	9.7	1.0583	Slope	0.999356
			Intercept	0.486632



Spirit River TRS Calibration



November 7, 2007

Calibration Report

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

Station Information

Calibration Date	November 7, 2007	Previous Calibration	October 16, 2007
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)	11:30	End Time (MST)	14:45
Barometric Pressure	0.937 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	0.972945	Calculated slope	0.989901
Calculated intercept	-2.109817	Calculated intercept	6.437945
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	114243	Hz	114243	Hz
Cell B	111,177	Hz	111,177	Hz
Pressure	685	in Hg	685	in Hg
CellA Flow	668	ccm	668	ccm
Cell B Flow	669	cmm	669	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)
4992	0.00	0.0	0.2	N/A
4992	0.00	327.2	330.9	0.9888
4992	0.00	231.0	220.5	1.0473
4992	0.00	133.5	121.0	1.1029
4992	0.00	0.0	0.2	As found zero
4992	0.00	300.0	340.1	As found span
Average Correction Factor				1.0463

Calculated value of As Found Response: 328.5 ppm Percent Change of As Found: 9.5%

	before calibration		after calibration	
Auto zero	-3.7	ppb	6.8	ppb
Auto span	345.3	ppb	337.1	ppb

Notes: Adjusted O3 High Point

Calibration Performed By: Conor Whiteley

Calibration Summary



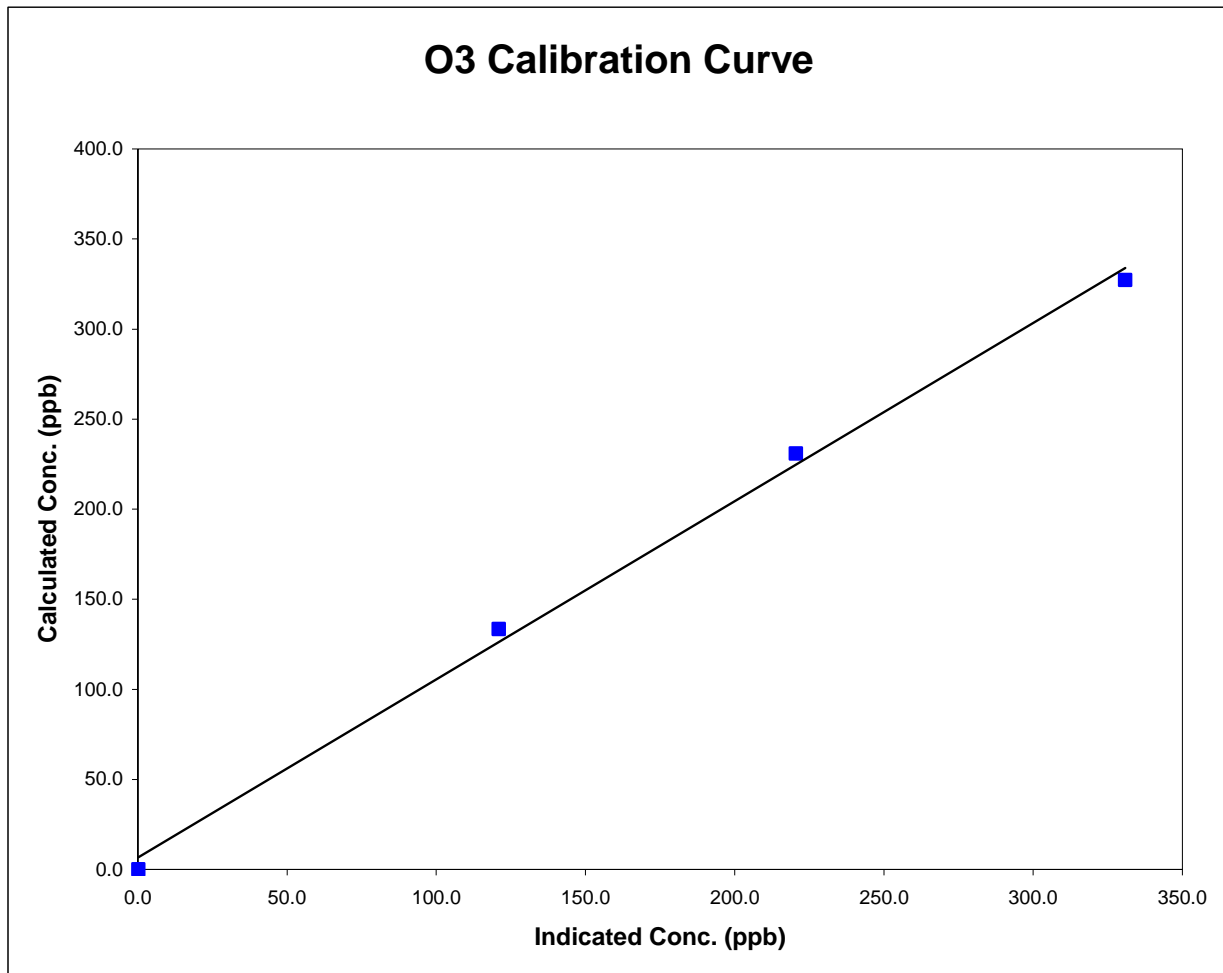
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

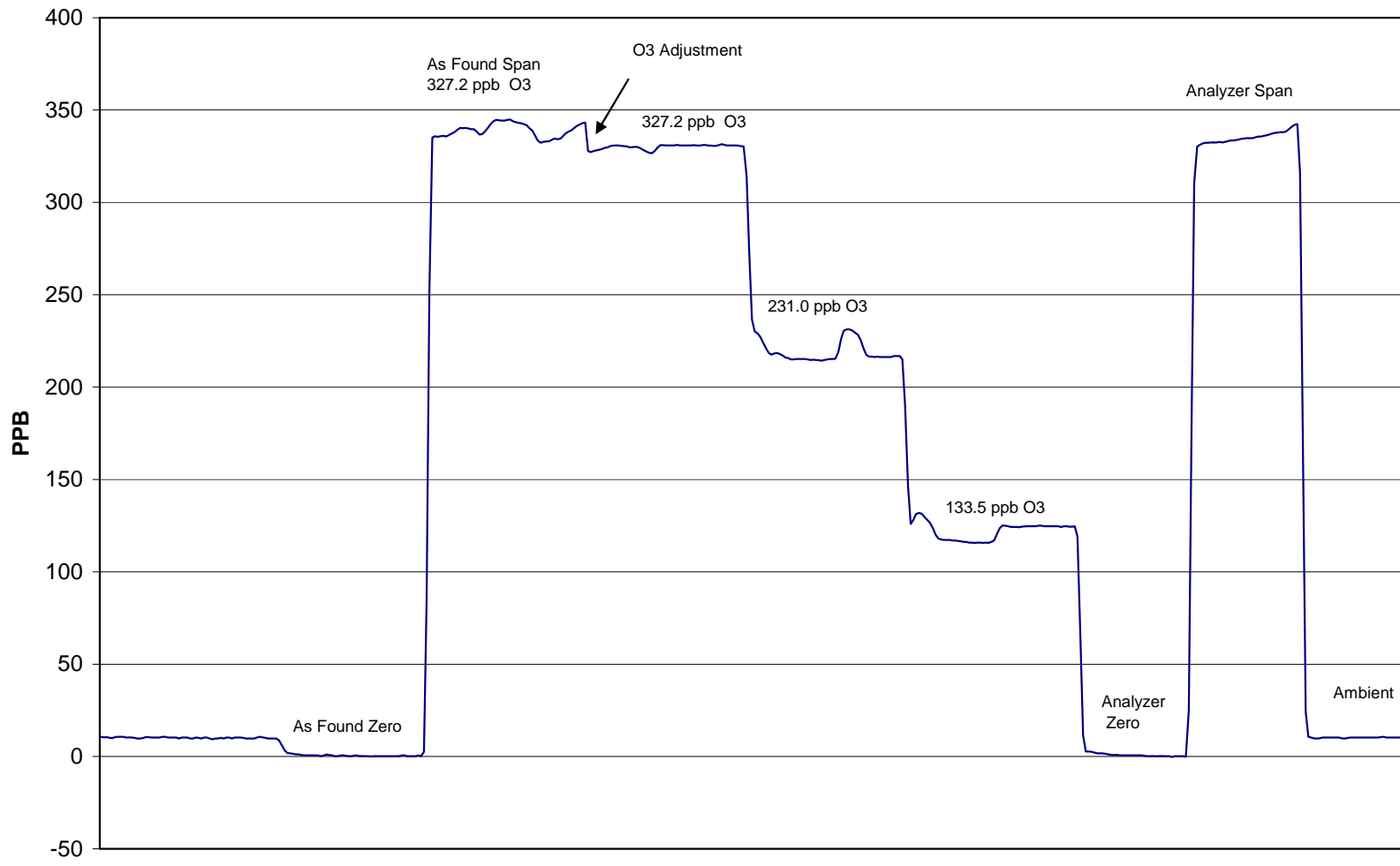
Calibration Date	November 7, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	11:30	End Time (MST)	14:45
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
327.2	330.9	0.9888	Correlation Coefficient	0.996903
231.0	220.5	1.0473		
133.5	121.0	1.1029	Slope	0.989901
			Intercept	6.437945



Spirit River O3 Calibration



November 7, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Reason:	Routine	Installation	Removal
Start Time (MST)	12:50	End Time (MST)	18:20
Barometric Pressure	27.43 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
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Parameter		NO2	NOx	NO
Before	Data Slope	0.996721	1.000107	1.000921
	Data Offset	-1.394613	-3.692769	-3.317014
After	Data Slope	1.000355	1.003276	1.002388
	Data Offset	0.013704	-2.133688	-2.043094
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
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	4.1	ppb	4.2	mV
NOx background	4.3	ppb	4.4	mV
NO coefficient	0.661		0.689	
NOx coefficient	0.999		0.999	
Chamber Temp	50.1	Deg C	50.4	Deg C
Cooler Temp	-2.6	Deg C	-2.8	Deg C
NO2 Converter Temp	325.8	Deg C	324.2	Deg C
Sample Flow	673.0	ccm	663.0	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	157.2	mm Hg	163.0	mm Hg

Notes: Span AdjustedCalibration Performed By: Conor Whiteley

Calibration Report

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



Station Information

Calibration Date: **November 6, 2007** 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	4989	0.00	0.0	0.0	0.0	0.1	0.0	0.2	N/A	N/A
1	4989	39.84	387.4	387.4	0.0	387.1	387.5	0.4	1.0007	0.9998
2	4989	19.85	193.8	193.8	0.0	196.4	196.3	1.1	0.9865	0.9872
3	4989	9.93	97.1	97.1	0.0	100.9	101.0	0.6	0.9621	0.9611
AFZ	4990	0.00	0.0	0.0	0.0	0.1	0.0	0.2	0.0000	0.0000
AFS	4990	39.92	388.1	388.1	0.0	371.2	371.5	0.6	1.0455	1.0447
Average Correction Factor									0.9831	0.9827

As Found Concentrations: NO_x= 367.5 NO= 368.2 As Found Percent Change NO_x= -5.3% NO= -5.1%

GPT Calibration Data

Dilution Flow 4989 ccm Source Gas Flow 39.82 ccm

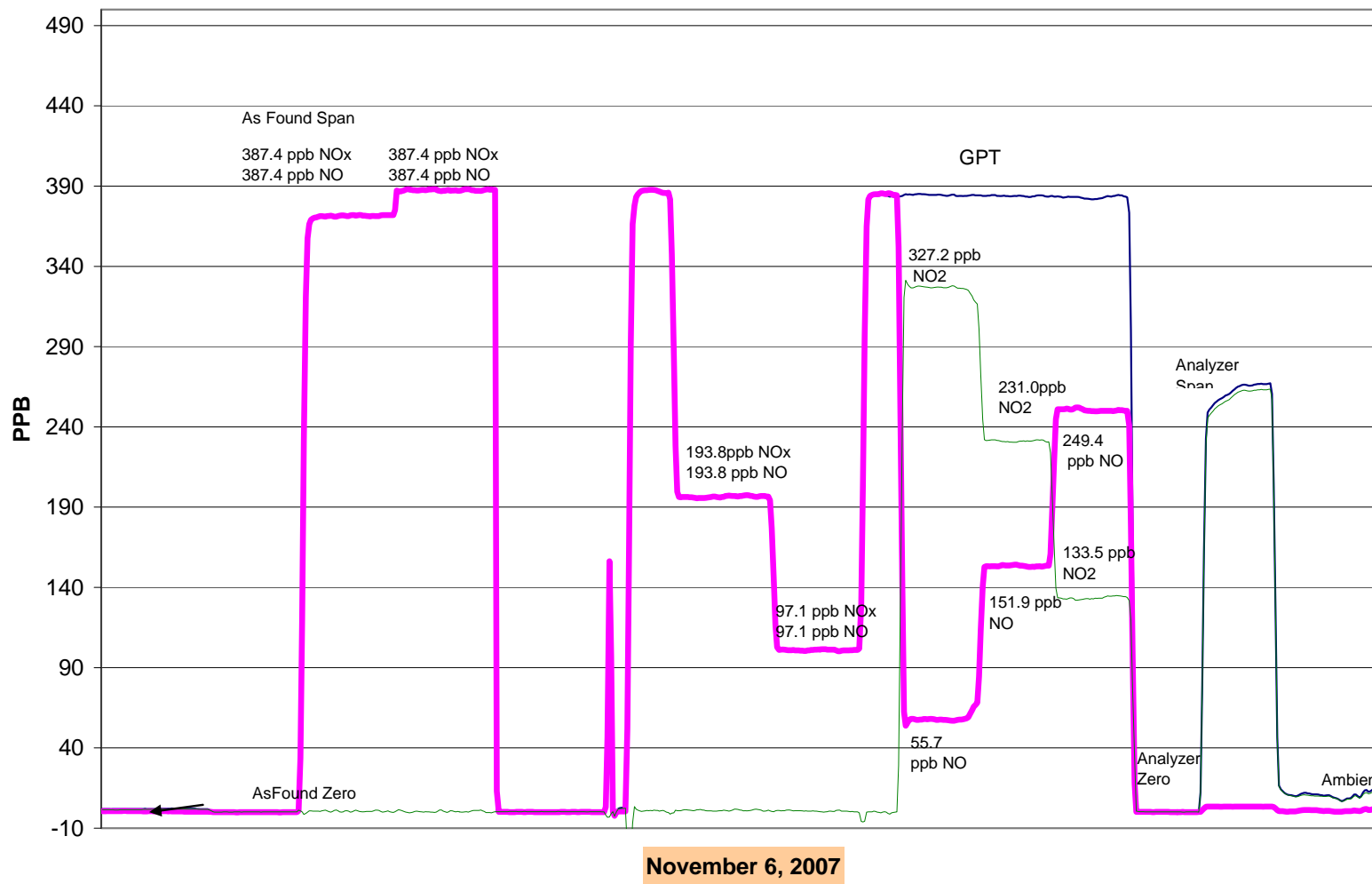
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	382.9	383.8	-0.9	383.9	384.9	-0.1	0.9972	0.9971	N/A	N/A
300	382.9	55.7	327.2	384.5	57.6	327.0	0.9958	0.9669	1.0004	100.0%
200	382.9	151.9	231.0	383.9	153.6	231.1	0.9972	0.9891	0.9992	100.1%
100	382.9	249.4	133.5	382.8	250.9	132.9	1.0001	0.9942	1.0040	99.6%
Average Correction Factor							0.9977	0.9834	1.0012	99.9%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO ₂	NO		NOx	NO ₂	NO	
Auto zero	NA	NA	NA	ppb	0.1	0.7	0.5	ppb
Auto span	225.4	222.0	1.8	ppb	264.9	262.8	1.5	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



Calibration Summary



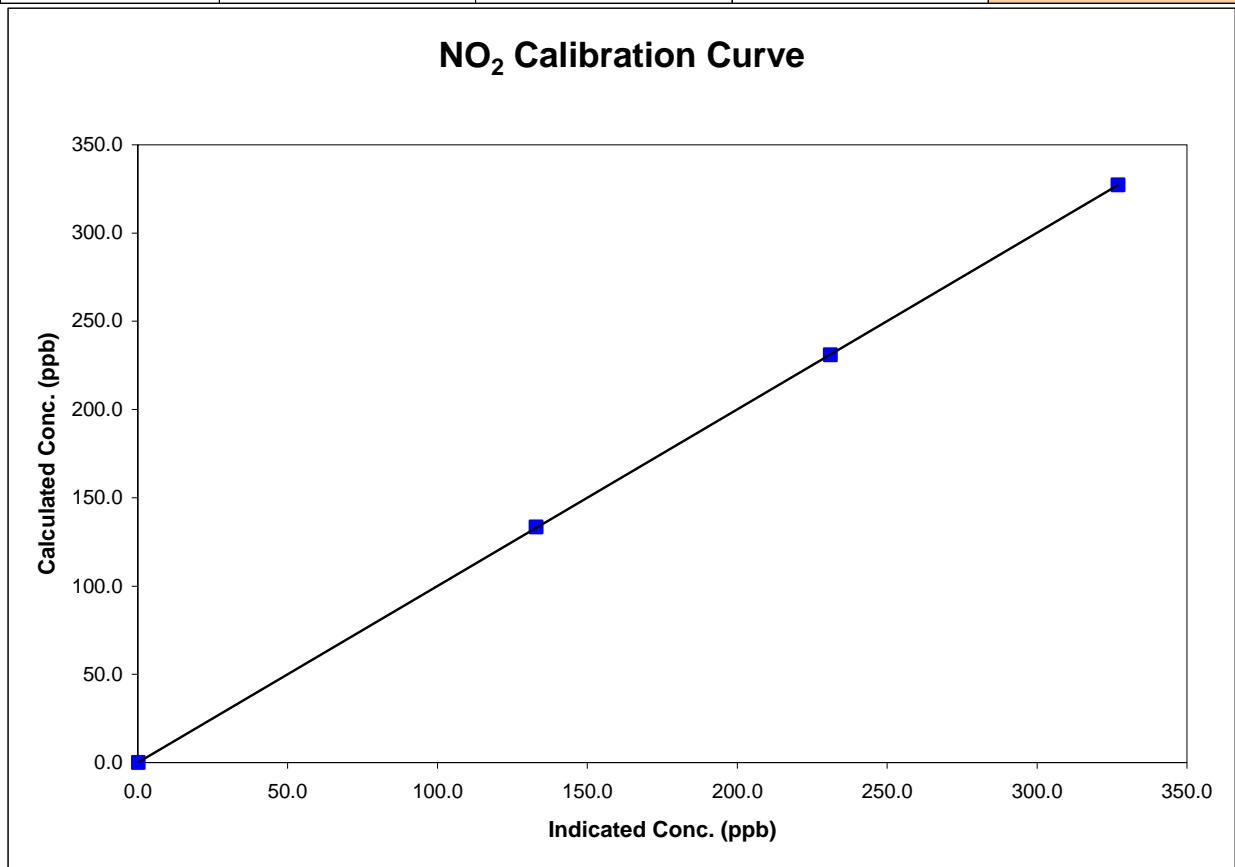
Parameter **NO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:50	End Time (MST)	18:20
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	0.2	0.0000	Correlation Coefficient	0.999994
327.2	327.0	1.0004		
231.0	231.1	0.9992		
133.5	132.9	1.0040		
			Slope	1.000355
			Intercept	0.013704



Calibration Summary

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

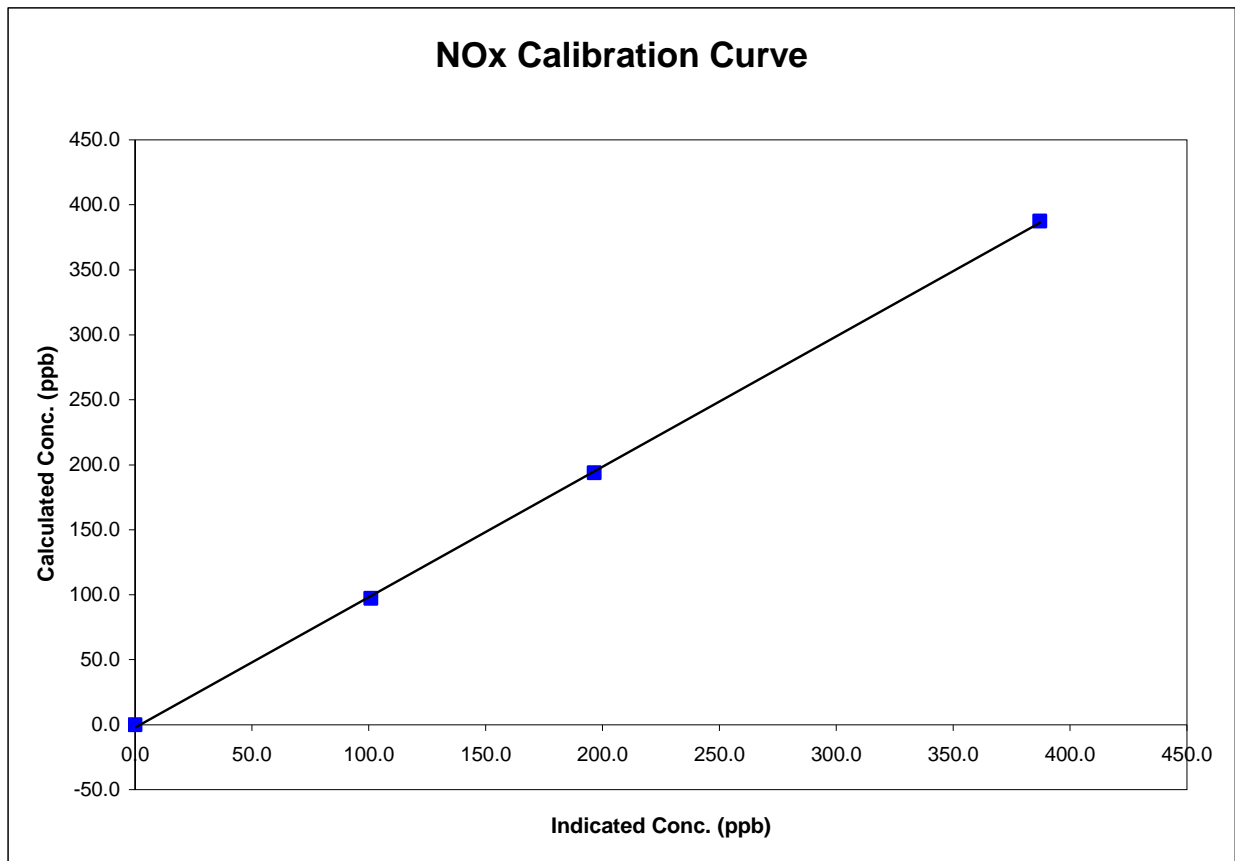


Station Information

Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:50	End Time (MST)	18:20
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	0.0000	Correlation Coefficient	0.999866
387.4	387.1	1.0007		
193.8	196.4	0.9865	Slope	1.003276
97.1	100.9	0.9621		
			Intercept	-2.133688



Calibration Summary

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

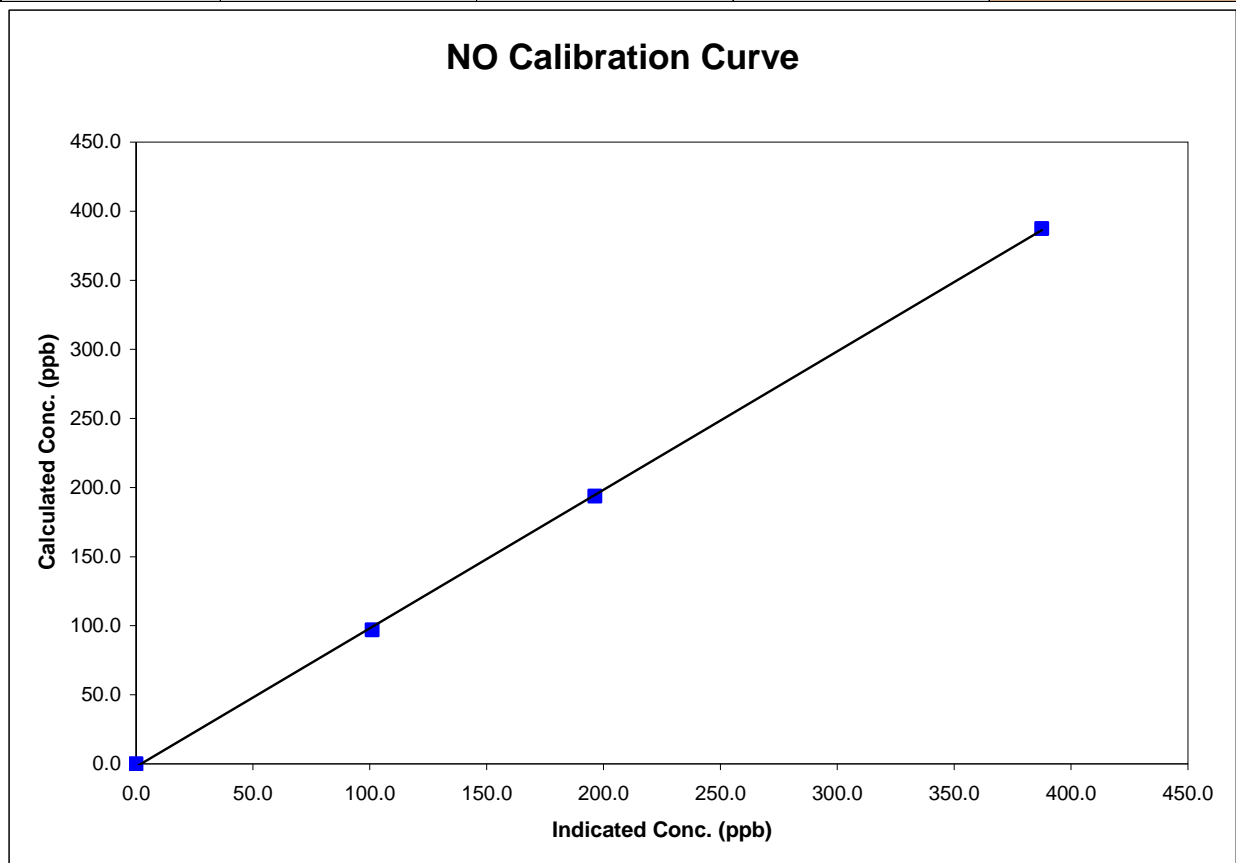


Station Information

Calibration Date	November 6, 2007	Previous Calibration	October 16, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:50	End Time (MST)	18:20
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
387.4	387.5	0.9998	Correlation Coefficient	0.999871
193.8	196.3	0.9872		
97.1	101.0	0.9611		
			Slope	1.002388
			Intercept	-2.043094



Calibration Report



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

Station Information

Calibration Date	November 16, 2007	Previous Calibration	October 17, 2007
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)	12:35	End Time (MST)	15:20
Barometric Pressure	27.28 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	1.003970	Calculated slope	1.003534
Calculated intercept	-0.925598	Calculated intercept	-0.468114
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	27.8		27.8	
Coefficient	0.741		0.741	
UV Lamp Voltage	694	LPM	694	LPM
Chamber Temp	44.3	V	44.6	V
Perm Gas Temp	30.5	C	30.5	C
Pressure	632.5	in Hg	634.7	in Hg
Sample Flow	0.47	LPM	0.473	LPM
Lamp Intesity	45574	Hz	45261	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	-0.6	N/A
4990	39.91	399.1	397.4	1.0042
4990	19.90	199.8	200.6	0.9958
4990	9.99	100.5	101.4	0.9919
4990	0.00	0.0	-0.6	As found zero
4990	39.91	399.1	397.4	As found span
Average Correction Factor				0.9973

Calculated value of As Found Response: 398.688 ppm Percent Change of As Found: 0.1%

	before calibration		after calibration	
Auto zero	-1.1	ppm	-0.8	ppm
Auto span	95.1	ppm	107.1	ppm

Notes: No adjustments made

Calibration Performed By: Conor Whiteley

Calibration Summary



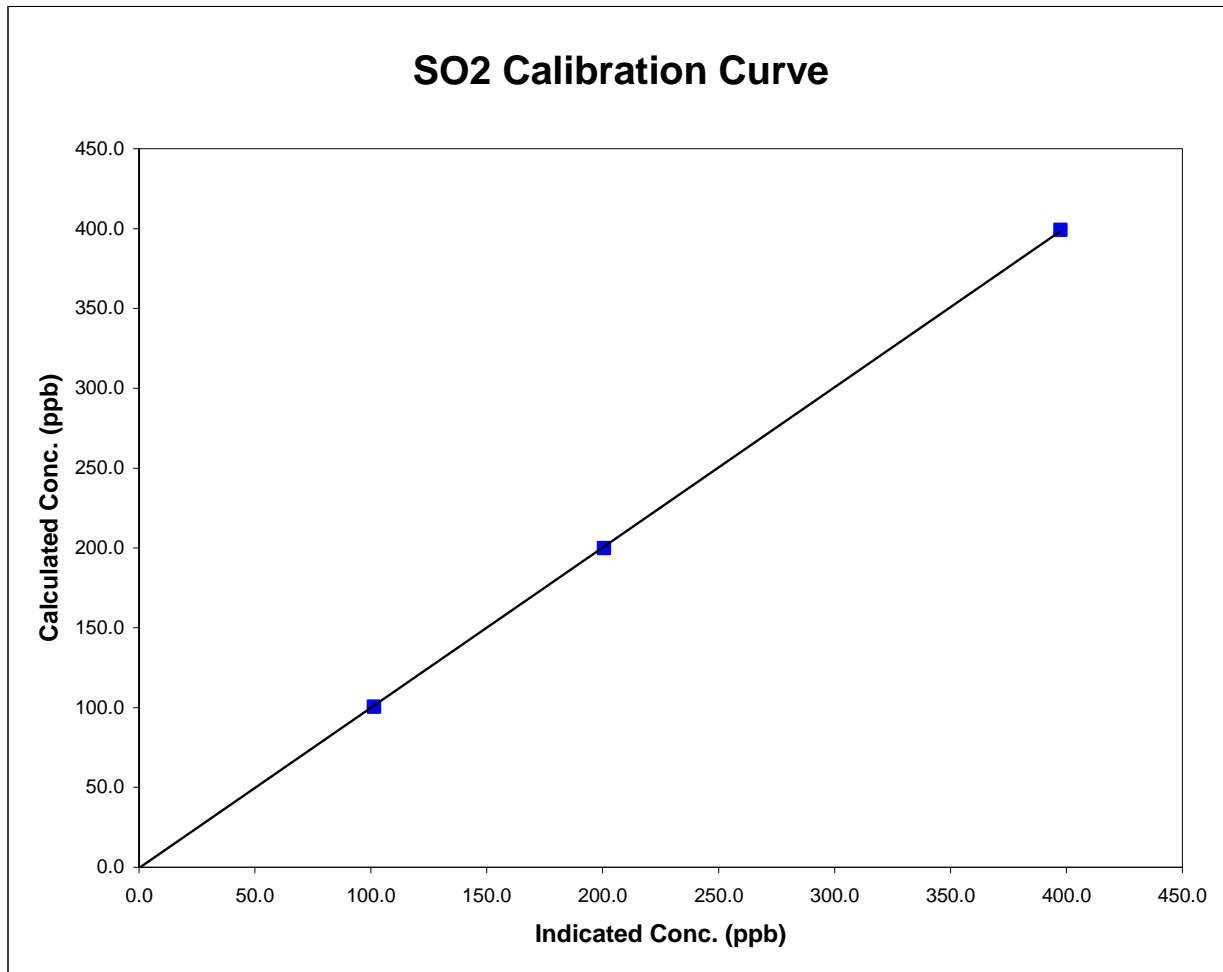
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

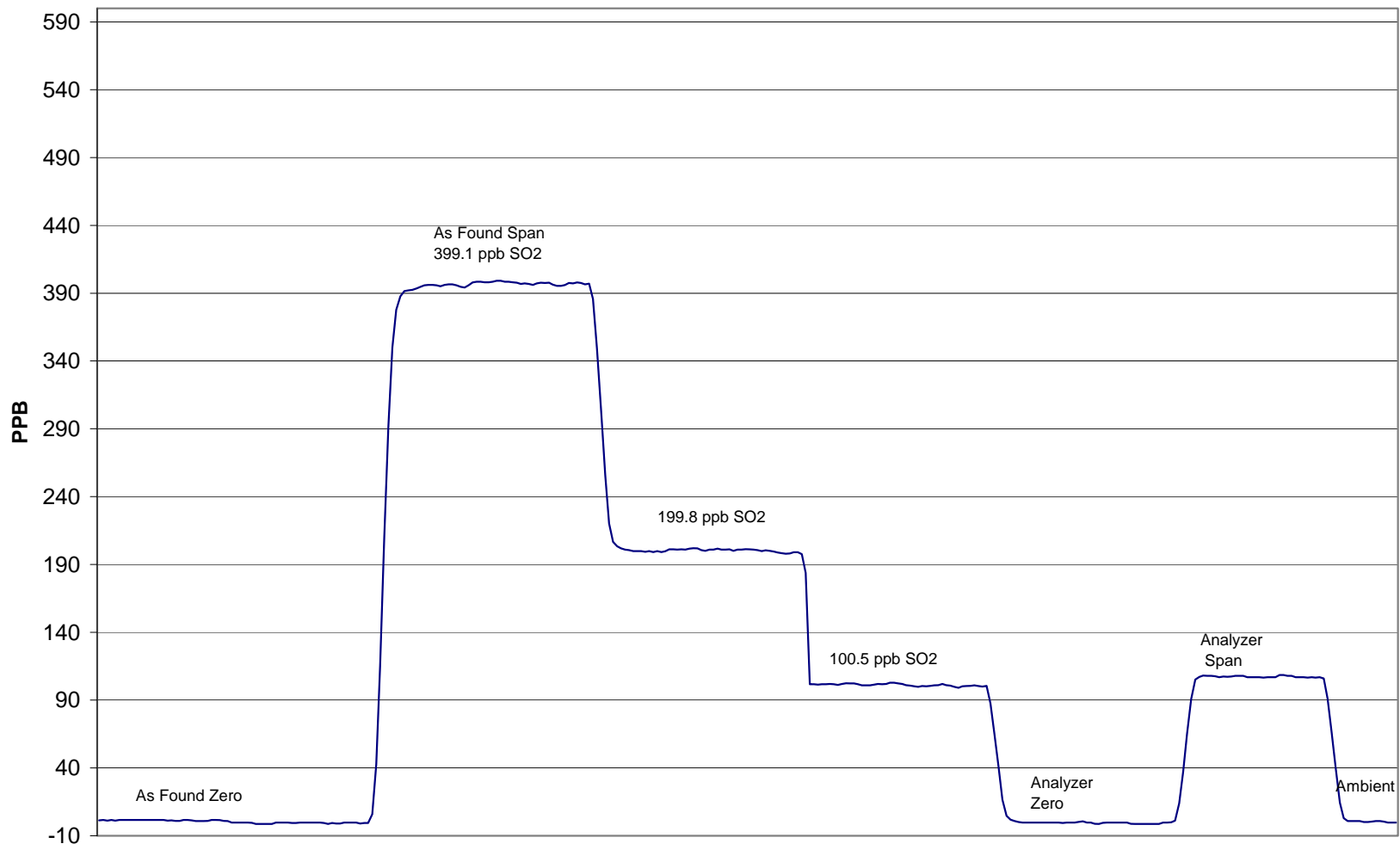
Calibration Date	November 16, 2007	Previous Calibration	October 17, 2007
Station Number	6	Station Location	Valleyview
Start Time (MST)	12:35	End Time (MST)	15:20
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.6	N/A		
399.1	397.4	1.0042	Correlation Coefficient	0.999962
199.8	200.6	0.9958		
100.5	101.4	0.9919	Slope	1.003534



Valleyview SO2 Calibration



November 16, 2007

Calibration Report

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

Station Information

Calibration Date	November 16, 2007	Previous Calibration	October 17, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:20	End Time (MST)	13:36
Barometric Pressure	27.28 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.997614	Calculated slope	1.017433
Calculated intercept	0.188330	Calculated intercept	0.422495
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.8	ppb	4.6	ppb
Coefficient	1.055		1.026	
Lamp Voltage	803	v	795	v
Chamber Temp	45	c	45	c
Perm Oven Temp	44.99	c	45.1	c
Pressure	635	mm Hg	646	mm Hg
Sample Flow	426	ccm	430	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	69.78	70.9	69.6	1.0185
4990	39.83	40.7	39.0	1.0440
4990	9.96	10.2	9.6	1.0643
4990	0.00	0.0	-0.1	As found zero
4990	69.78	70.9	74.3	As found span
Average Correction Factor				1.0423

Calculated value of As Found Response: 74.44 ppm Percent Change of As Found: -5.0%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.4	ppm
Auto span	68.1	ppm	68.4	ppm

Notes: Adjusted H2S Span

On last point, while noting the various calibration factors, I hit the run button once too many scrolling through the menu thus the spike at the end of the last point before the AIC

Calibration Performed By: Conor Whiteley

Calibration Summary

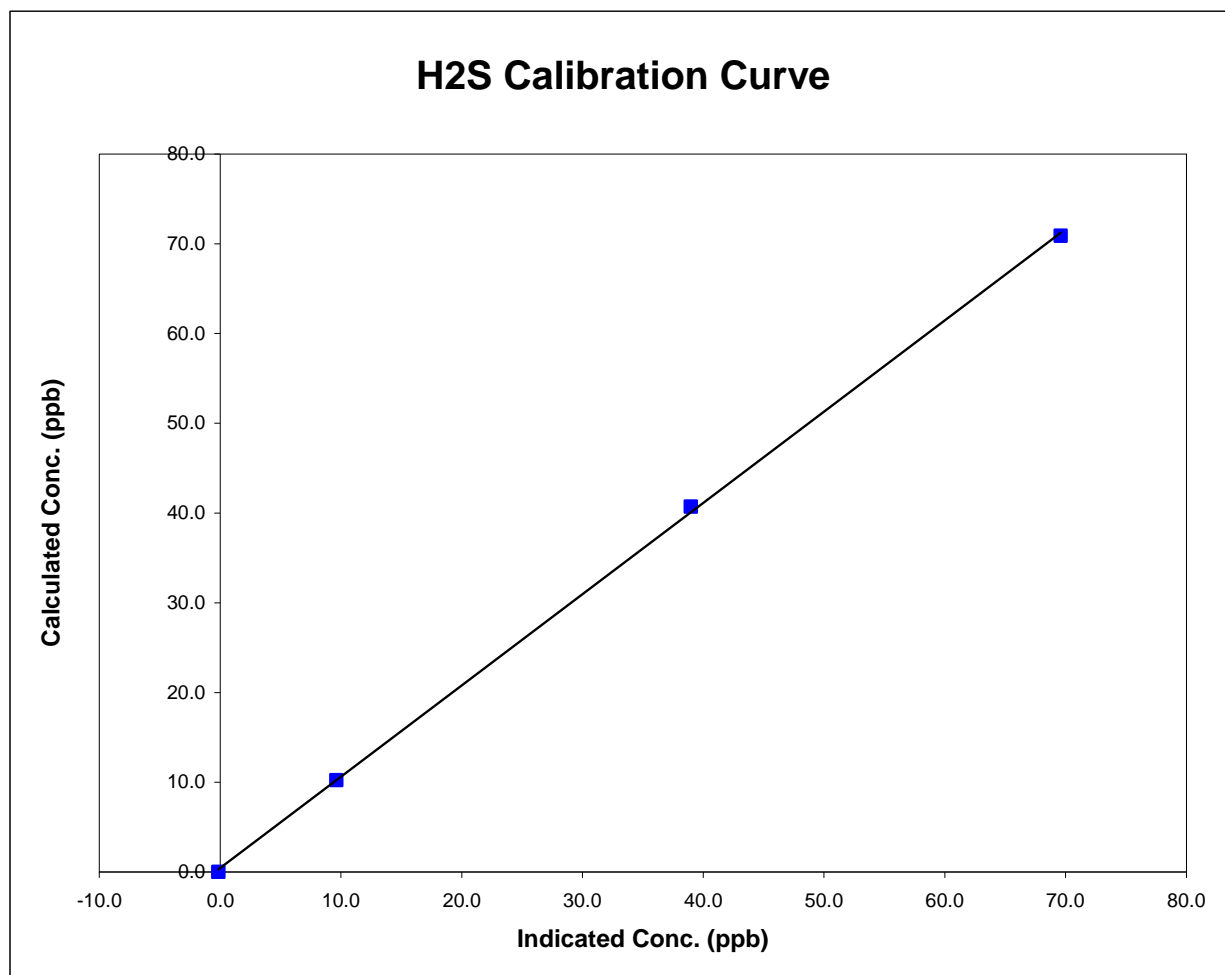
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

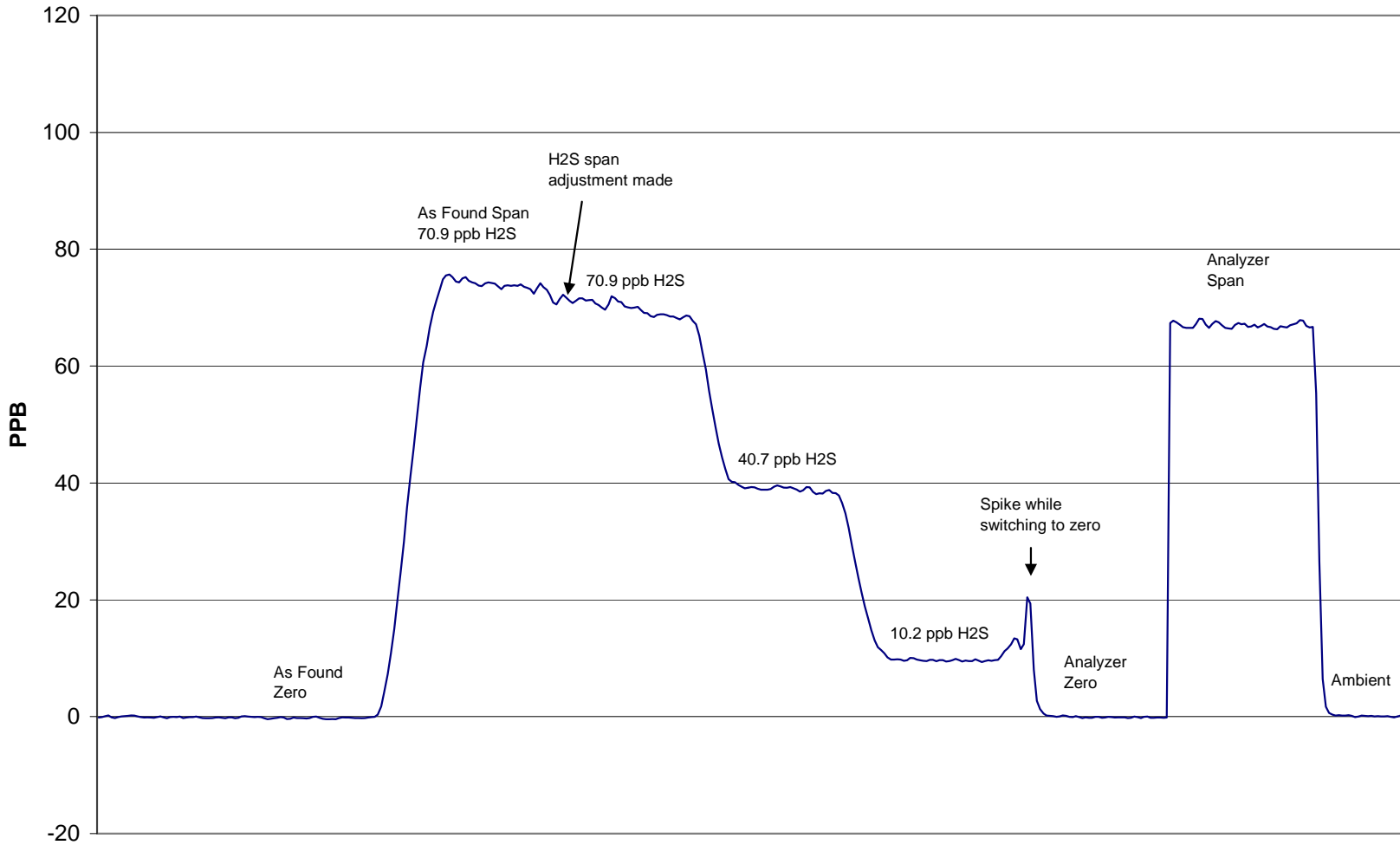
Calibration Date	November 16, 2007	Previous Calibration	October 17, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	10:20	End Time (MST)	13:36
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
70.9	69.6	1.0185	Correlation Coefficient	0.999810
40.7	39.0	1.0440		
10.2	9.6	1.0643	Slope	1.017433
			Intercept	0.422495



Valleyview H2S Calibration



November 16, 2007