



Air Quality Monitoring Network for December 2006

Prepared by
FOCUS
 AMBIENT AIR MONITORING

Airshed Zone Association – December 2006 PASZA Ambient Air Report.....	2
PASZA Monthly Continuous Data Summary	8
PASZA - Henry Pirker - AQI Monthly Summary	14
PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary	15
PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary	20
PASZA - Henry Pirker - Nitric Oxide Monthly Summary	25
PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary	26
PASZA - Henry Pirker - Ozone Monthly Summary	31
PASZA - Henry Pirker – Ozone Eight Hour Average Monthly Summary	36
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary	37
PASZA - Henry Pirker - Carbon Monoxide Eight Hour Average Monthly Summary	42
PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary	43
PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary	48
PASZA - Henry Pirker - Particulate Matter (less than 2.5 microns) Monthly Summary	53
PASZA - Henry Pirker - Relative Humidity Monthly Summary	58
PASZA - Henry Pirker - Temperature Monthly Summary	60
PASZA - Henry Pirker - Solar Radiation Monthly Summary	62
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary	64
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary	65
PASZA - Henry Pirker - Wind Direction Monthly Summary	66
PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary	67
PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary	70
PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary	75
PASZA - Evergreen Park - Particulate Matter (less than 2.5 microns) Monthly Summary	80
PASZA - Evergreen Park - Temperature Monthly Summary	85
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary	87
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary	88
PASZA - Evergreen Park - Wind Direction Monthly Summary	89
PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary	90
PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary	93
PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary	93
PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary	98
PASZA - Smoky Heights - Particulate Matter (less than 2.5 microns) Monthly Summary	103
PASZA - Smoky Heights - Temperature Monthly Summary	108
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary	110
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary	111
PASZA - Smoky Heights - Wind Direction Monthly Summary	112
PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary	113
PASZA - Beaverlodge - AQI Monthly Summary	116
PASZA – Beaverlodge - Sulphur Dioxide Monthly Summary	117
PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary	122
PASZA – Beaverlodge - Nitric Oxide Monthly Summary	127
PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary	128
PASZA - Beaverlodge - Ozone Monthly Summary	133
PASZA - Beaverlodge - Ozone Eight Hour Average Monthly Summary	138
PASZA - Beaverlodge - Particulate Matter (less than 2.5 microns) Monthly Summary	139
PASZA – Beaverlodge - Relative Humidity Monthly Summary	144
PASZA - Beaverlodge - Temperature Monthly Summary	146



PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary	148
PASZA – Beaverlodge - Vector Wind Speed Monthly Summary	149
PASZA - Beaverlodge - Wind Direction Monthly Summary	150
PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary	151
PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary	154
PASZA - Portable-Falher - Ozone Monthly Summary	159
PASZA - Portable-Falher - Ozone Eight Hour Average Monthly Summary	164
PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary	165
PASZA - Portable-Falher - Relative Humidity Monthly Summary	170
PASZA - Portable-Falher - Temperature Monthly Summary	172
PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary	174
PASZA - Portable-Falher - Vector Wind Speed Monthly Summary	175
PASZA - Portable-Falher - Wind Direction Monthly Summary	176
PASZA - Portable-Falher - Standard Deviation of Wind Direction Monthly Summary	177
PASZA - Valleyview - Sulphur Dioxide Monthly Summary	180
PASZA - Valleyview - Hydrogen Sulphide Monthly Summary	185
PASZA - Valleyview - Relative Humidity Monthly Summary	190
PASZA - Valleyview - Temperature Monthly Summary	192
PASZA - Valleyview - Scalar Wind Speed Monthly Summary	194
PASZA – Valleyview - Vector Wind Speed Monthly Summary	195
PASZA - Valleyview - Wind Direction Monthly Summary	196
PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary	197
PASZA Passive Stations for December 2006	200
December 2006 Calibration Reports	211

February 12, 2007

Environmental Service Response Centre
Alberta Environment
#111 Twin Atria Building
4999-98th Avenue
Edmonton, Alberta T6B 2X3

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

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **December 2006**.

Continuous Monitoring: Six (6) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights, Beaverlodge, Falher (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 and Falher stations. However, the Valleyview station had .four – 1 hour exceedances and one – 24 hour exceedence of the provincial objectives of H₂S on December 31st.

During the month of December the following events were noted:

Henry Pirker Station:

- ◆ The TRS analyzer had several elevated readings during the month of December, the highest being 6 ppb on December 10th, winds were from the northwest at 7 km/hr.
- ◆ Maintenance activity (cleaning the manifold) at the station resulted in one (1) hour of invalid data on December 18th for the O₃ analyzer.
- ◆ A power bump on December 19th resulted in one hour of invalid data for the TEOM.
- ◆ The THC spans dropped on December 28th and 29th, the cause of the instability is suspected to be internal span supply settings and investigation is ongoing.
- ◆ The wind speed sensor had a total of a total of sixty-six (66) hours of invalid data due to the wind speed cups freezing up.
- ◆ All analyzers / sensors at the Henry Pirker station were above 90% uptime.
- ◆ The AQI for the month of December resulted in 701 hours of Good readings. There was 1 hour attributed to a Fair reading and 1 hour attributed to a Poor reading. The Poor reading of 59 occurred on December 31st during the New Years Eve fireworks event (22:00 – 23:00 hour) in Grande Prairie.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station were above 90% uptime.

Smoky Heights Station:

- ◆ A power bump on December 11th resulted in one (1) hour of invalid data for the PM_{2.5} analyzer.
- ◆ A power outage on December 13th resulted in several hours of invalid data for all parameters: SO₂ and TRS (seven (7) hours); PM_{2.5} (five (5) hours); temperature, wind speed and wind direction (four (4) hours).

- ◆ All analyzers / sensors at the Smoky Heights station were above 90% uptime.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station were above 90% uptime.
- ◆ The AQI for the month resulted in 704 hours of Good readings.

Portable - Falher Station:

- ◆ On December 4th (one (1) hour) and December 17th (five (5) hours) the data for the ultrasonic wind sensor was flagged invalid (due to fog and snow conditions).
- ◆ The computer at the Falher station was replaced on December 4th this resulted in one (1) hour of invalid data for the temperature, relative humidity and wind sensors. Once the installation was complete both the DACS and computer were connected to the UPS (uninterruptible power supply) system.
- ◆ On December 21st the TRS span was elevated, cause is unknown.

Valleyview Station:

- ◆ The SO₂ data was reported to the nearest 0.01 ppm due to the condition of the analyzer. This analyzer will be replaced with a new one (with a target of early February, 2007).
- ◆ On December 31st there were a number of H₂S exceedences of the provincial objectives – AENV Reference number 181788:

○ 1-hour	04:00	86 ppb	Wind from SW at 4 km/hr
○ 1-hour	05:00	53 ppb	Wind from SW at 3 km/hr
○ 1-hour	06:00	24 ppb	Wind from SW at 2 km/hr
○ 1-hour	07:00	58 ppb	Wind form WSW at 2km/hr
○ 24-hour		9.9 ppb	Wind from SSW at 3.9 km/hr

The source of this contravention was from the field of the South Sturgeon Lake Sour Gas Plant when a pressure gauge on a well casing failed.

- ◆ All analyzers / sensors at the Valleyview station operated at 100% uptime.

Passive Monitoring: 43 Stations throughout the PASZA zone:

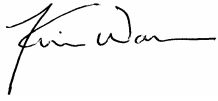
There were two sample sites, Hythe and Puskwaskau (duplicate sample site for month of December), that had transcription errors with the O₃ passive samples, the results of those samples have been removed from the data set. Thus the Puskwaskau site was based on the result of one sample, instead of the results from two samples.

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

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.90 ppb, with a mean of 0.4 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.6 ppb to 15.8 ppb, with a mean of 3.0 ppb.
- Monthly average concentrations for O₃ passives ranged from 17.0 ppb to 42.6 ppb, with a mean of 28.6 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 (Gary Cross) or 1-888-466-6555 (Kevin McCullum).

On Behalf of the,
Peace Airshed Zone Association



Kevin Warren
PASZA Technical Program Manager



Kevin McCullum, Ph.D., P.Eng.
AQM Environmental Engineer

January 5, 2007

Alberta Environment
Environmental Response Centre
111 Twin Atria Building
4999 98 Avenue
Edmonton, Alberta
T6B 2X3

Dear Sir/Madam:

Re: Ambient Air Quality Contravention
South Sturgeon Lake Sour Gas Plant
License No. 1633-02-00
Reference No. 181788

This letter confirms our notification to your department on December 31, 2006 of one (1) ambient air quality contravention. The contravention was recorded at the Sturgeon Lake South Plant's Air Quality Monitoring Station for a duration of 4 hours.

The following license limits were exceeded:

Maximum 1 hour average H₂S concentration of 10 ppbv.

Date (MM.DD)	Time (Hours)	H ₂ S (ppbv)
12 / 31	04:00-05:00	92
12 / 31	05:00-06:00	50
12 / 31	06:00-07:00	25
12 / 31	07:00-08:00	52

Maximum 24 hour average H₂S concentration of 3 ppbv.

Date (MM.DD)	H ₂ S (ppbv)
12 / 31	9

This contravention (181788) occurred when a pressure gauge on a well casing (10-01-69-22 W5) failed. The well is owned and operated by Kereco Energy Ltd. Once the control room received the call from the air quality monitoring trailer, field operators from Kereco Energy Ltd. and Daylight Energy were dispatched to search for the source of the fugitive emission. During his sweep of the field, the Kereco operator discovered the failed gauge and blocked in the gas source.

Kereco Energy's operations and maintenance staff have been instructed to watch for failing equipment, including gauges, in order to decrease the risk of future unauthorized gas releases.

If you require any additional information feel free to contact myself at 524-3341 (ext. 236).

Sincerely,

Kereco Energy Ltd.

Jim Terpsma

SEOH coordinator

cc: SturIs Eng File - 2006 Ambient Air Reports
Bill Jenkins- Calgary Office

PASZA Monthly Continuous Data Summary

Dec-2006 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	0.6	0	0	2.9	Dec-02 23:00	9.8	WNW	1.5	Dec-11	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.9	0	0	5.8	Dec-08 22:00	4.6	SW	2.0	Dec-02	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.7	0	0	8.8	Dec-16 03:00	9.2	WSW	2.3	Dec-10	99.1%
SO ₂ (ppb)	172	57	Beaverlodge	0.6	0	0	7.3	Dec-02 17:00	2.5	SE	2.9	Dec-11	100.0%
SO ₂ (ppb)	172	57	Portable-Falher	0.5	0	0	3.6	Dec-04 19:00	0.8	Calm	1.0	Dec-04	100.0%
SO ₂ (ppm)	0.172	0.057	Valleyview	0.00	0	0	0.02	Dec-05 07:00	15.8	W	0.00	Dec-19	100.0%
NO (ppb)			Henry Pirker	29.0	-	-	295.4	Dec-16 19:00	4.6	ESE	111.5	Dec-07	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	24.0	0	0	59.9	Dec-16 20:00	5.3	ESE	39.3	Dec-18	100.0%
NO _x (ppb)			Henry Pirker	53.0	-	-	350.5	Dec-16 19:00	4.6	ESE	145.7	Dec-07	100.0%
NO (ppb)			Beaverlodge	2.5	-	-	62.4	Dec-11 13:00	3.7	ENE	20.5	Dec-11	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	8.3	0	0	35.4	Dec-04 18:00	2.5	WSW	23.2	Dec-11	100.0%
NO _x (ppb)			Beaverlodge	11.5	-	-	90.3	Dec-11 13:00	3.7	ENE	44.0	Dec-11	100.0%
O ₃ (ppb)	82		Henry Pirker	12.5	0	-	37.7	Dec-19 04:00	43.2	WSW	31.9	Dec-30	99.6%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					35.1	Dec-19	
O ₃ (ppb)	82		Beaverlodge	27.1	0	-	40.9	Dec-31 20:00	10.5	WSW	37.3	Dec-30	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					39.2	Dec-19	
O ₃ (ppb)	82		Portable-Falher	28.0	0	-	40.3	Dec-19 06:00	47.3	W	38.1	Dec-19	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Falher			0					39.4	Dec-19	
CO (ppm)	13		Henry Pirker	0.43	0	-	2.4	Dec-16 20:00	5.3	ESE	0.9	Dec-07	100.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					1.6	Dec-17	
THC (ppm)			Henry Pirker	2.40	-	-	3.9	Dec-17 13:00	5.2	W	3.3	Dec-17	100.0%
TRS (ppb)			Henry Pirker	0.4	-	-	6.1	Dec-10 19:00	6.6	NW	1.2	Dec-10	100.0%
TRS (ppb)			Evergreen Park	0.9	-	-	4.3	Dec-10 20:00	3.2	WNW	2.0	Dec-11	100.0%
TRS (ppb)			Smoky Heights	0.6	-	-	4.6	Dec-04 01:00	12.7	SW	1.2	Dec-10	99.1%
TRS (ppb)			Portable-Falher	0.5	-	-	1.1	Dec-04 19:00	0.8	Calm	0.7	Dec-04	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.5	4	1	86.2	Dec-31 05:00	2.6	SW	9.9	Dec-31	100.0%
PM _{2.5} (µg/m ³)		30 _a	Henry Pirker	4.9	0	0	97.6	Dec-31 22:00	6.2	ESE	12.6	Dec-07	99.6%
PM _{2.5} (µg/m ³)		30 _a	Evergreen Park	4.0	0	0	25.6	Dec-10 12:00	3.6	NW	10.9	Dec-11	99.7%
PM _{2.5} (µg/m ³)		30 _a	Smoky Heights	2.6	0	0	32.0	Dec-29 12:00	7.7	SSW	7.6	Dec-29	98.7%
PM _{2.5} (µg/m ³)		30 _a	Beaverlodge	2.1	0	0	17.4	Dec-09 06:00	2.8	ENE	6.1	Dec-11	99.3%

PASZA Monthly Continuous Data Summary - continued

Dec-2006		Peace Airshed Zone Association				Maximum Recorded Values							
						1-hr				24-hr / 8-hr			
RH (%)		Henry Pirker	72.9	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Beaverlodge	71.2	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Falher	76.2	-	-	-	-	-	-	-	-	-	99.9%
RH (%)		Valleyview	70.1	-	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)		Henry Pirker	20.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Henry Pirker	-6.7	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Evergreen Park	-6.9	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	-6.2	-	-	-	-	-	-	-	-	-	99.5%
Temp (°C)		Beaverlodge	-4.4	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Falher	-6.3	-	-	-	-	-	-	-	-	-	99.9%
Temp (°C)		Valleyview	-5.0	-	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)		Henry Pirker	8.7	-	-	43.1	Dec-19 04:00	43.1	WSW	21.6	Dec-19	91.1%	
WSPD v (km/hr)		Evergreen Park	6.6	-	-	36.2	Dec-19 04:00	36.2	WSW	19.7	Dec-30	100.0%	
WSPD v (km/hr)		Smoky Heights	12.8	-	-	47.4	Dec-19 04:00	47.4	WSW	25.7	Dec-30	99.5%	
WSPD v (km/hr)		Beaverlodge	8.2	-	-	46.2	Dec-19 05:00	46.2	W	22.9	Dec-30	100.0%	
WSPD v (km/hr)		Portable-Falher	14.9	-	-	47.1	Dec-19 06:00	47.1	W	28.2	Dec-30	99.1%	
WSPD v (km/hr)		Valleyview	6.2	-	-	26.3	Dec-19 05:00	26.3	WNW	12.6	Dec-18	100.0%	
WSPD s (km/hr)		Henry Pirker	9.6	-	-	43.2	Dec-19 04:00	43.2	WSW	22.2	Dec-19	91.1%	
WSPD s (km/hr)		Evergreen Park	7.0	-	-	36.8	Dec-19 04:00	36.8	WSW	19.9	Dec-30	100.0%	
WSPD s (km/hr)		Smoky Heights	13.1	-	-	47.5	Dec-19 04:00	47.5	WSW	25.8	Dec-30	99.5%	
WSPD s (km/hr)		Beaverlodge	8.5	-	-	46.2	Dec-19 05:00	46.2	W	23.1	Dec-30	100.0%	
WSPD s (km/hr)		Portable-Falher	15.1	-	-	47.3	Dec-19 06:00	47.3	W	29.4	Dec-21	99.1%	
WSPD s (km/hr)		Valleyview	6.5	-	-	26.9	Dec-19 05:00	26.9	WNW	12.7	Dec-18	100.0%	
WDIR		Henry Pirker	WSW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Evergreen Park	WSW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Smoky Heights	SW	-	-	-	-	-	-	-	-	99.5%	
WDIR		Beaverlodge	W	-	-	-	-	-	-	-	-	100.0%	
WDIR		Portable-Falher	S	-	-	-	-	-	-	-	-	99.1%	
WDIR		Valleyview	SW	-	-	-	-	-	-	-	-	100.0%	

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

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Calibrations were performed on December 11th (THC & CO) and December 18th (SO₂, NO_x, O₃, TRS and TEOM).

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational problems observed.
NO _x /NO/NO ₂	TECO	42C	No operational problems observed.
O ₃	API	400	O ₃ span became slightly elevated due to elevated temperature in the station. The O ₃ analyzer had one (1) hour of invalid data due to maintenance (cleaning manifold) on December 18 th .
CO	TECO	48C	No operational problems observed.
THC	TEI	51-CLT	THC spans dropped on December 28 th and 29 th , the instability is suspected to be caused by internal span supply settings, investigation ongoing.
TRS	TEI	42C	No operational problems observed.
PM _{2.5}	R&P	1400AB	A power bump on December 19 th resulted in one (1) of invalid data. Two (2) hours were removed due to baseline drift.
RH	Met One	083D	No operational problems observed.
AT	Met One	083D	No operational problems observed.
SR	Met One	096-1	No operational problems observed.
WS	Met One	010C	A total of sixty-six (66) hours were invalid due the wind speed sensor cups freezing.
WD	Met One	020C	No operational problems observed.

PASZA – Evergreen Park Station

General Station Issues

Calibrations were performed on December 5th (SO₂, TRS and PM_{2.5}).

Parameter	Make	Model	Notes
SO ₂	API	100	No operational problems observed.
TRS	TEI	42C	No operational problems observed.
PM _{2.5}	R&P	1400AB	Two (2) hours were removed due to baseline drift.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

PASZA – Smoky Heights Station

General Station Issues

Calibrations were performed on December 20th (SO₂, TRS and PM_{2.5}).

Parameter	Make	Model	Notes
SO ₂	API	100A	Power outage on December 13 th resulted in seven (7) hours of invalid data.
TRS	TEI	42C	Power outage on December 13 th resulted in seven (7) hours of invalid data.
PM _{2.5}	R&P	1400AB	Power bump on December 11 th resulted in one (1) hour of invalid data. Power outage on December 13 th resulted in seven (5) hours of invalid data. Four (4) hours of excessive baseline drift.
AT	Met One	083D	Power outage on December 13 th resulted in seven (7) hours of invalid data.
WS	Met One	010C	Power outage on December 13 th resulted in seven (7) hours of invalid data.
WD	Met One	020C	Power outage on December 13 th resulted in seven (7) hours of invalid data.

PASZA – Beaverlodge Station

General Station Issues

Calibrations were performed on December 12th (NO_x) and December 13th (SO₂, O₃ and PM_{2.5}).

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	No operational problems observed.
NO _x /NO/NO ₂	TECO	42C	No operational problems observed.
O ₃	API	400	No operational problems observed.
PM _{2.5}	R&P	1400AB	Five (5) hours were removed due to baseline drift.
AT	n/a	n/a	No operational problems observed.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	No operational problems observed. Seven (7) hours of calm were observed.
WD	Blue Sky	857	No operational problems observed.

PASZA – Falher (Portable) Station

General Station Issues

Calibrations were performed on December 4th (SO₂, TRS and O₃). The computer was replaced on December 4th and both the DACS and PC were connected to the UPS.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational problems observed.
TRS	TEI	43C	No operational problems observed.
O ₃	TEI	49C	No operational problems observed.
AT	Gill Met Pak 3		Maintenance (computer installation) on December 4 th resulted in one (1) hour of invalid data.
RH	Gill Met Pak 3		Maintenance (computer installation) on December 4 th resulted in one (1) hour of invalid data.
WS	Gill Met Pak 3		On December 4 th (one (1) hour) and December 17 th (five (5) hours) the data for the ultrasonic wind sensor was flagged invalid (fog and snow conditions). Maintenance (computer installation) resulted in one (1) hour of invalid data.
WD	Gill Met Pak 3		On December 4 th (one (1) hour) and December 17 th (five (5) hours) the data for the ultrasonic wind sensor was flagged invalid (fog and snow conditions). Maintenance (computer installation) resulted in one (1) hour of invalid data.

PASZA – Valleyview Station

General Station Issues

- ◆ Calibrations were performed on December 7th (SO₂, H₂S). On December 31st there were four 1-hour and one 24 hour H₂S exceedences of the provincial objectives – AENV Reference number 181788.

Parameter	Make	Model	Notes
SO ₂	ML	332	Replaced pump with a new Thomas pump.
H ₂ S	TEI	43C	Replaced pump with a new Thomas pump.
AT	Gill Met Pak 3		No operational problems observed.
RH	Gill Met Pak 3		No operational problems observed.
WS	Gill Met Pak 3		No operational problems observed.
WD	Gill Met Pak 3		No operational problems observed.

PASZA – Henry Pirker Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Henry Pirker - AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: December 1, 2006 to January 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:	701
Number of 1-hr Fair Readings:	1
Number of 1-hr Poor Readings:	1
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-Dec-06	15	17	19	17	19	18	15	7	11	8	9	8	10	9	8	9	11	15	N	13	12	10	8	9
2-Dec-06	8	6	7	7	7	6	8	8	9	12	14	12	12	12	14	12	15	N	12	12	11	7	5	7
3-Dec-06	12	13	16	17	16	15	15	14	15	15	14	10	10	13	13	11	N	8	10	9	5	8	8	7
4-Dec-06	6	8	8	8	6	6	8	9	8	8	8	9	7	8	13	N	14	10	12	13	6	6	5	5
5-Dec-06	5	8	11	12	11	9	10	13	11	13	13	15	14	14	N	14	8	11	17	15	12	6	7	6
6-Dec-06	6	5	8	7	6	7	5	5	5	6	7	7	5	N	6	7	7	8	10	8	6	7	6	5
7-Dec-06	8	7	8	13	10	7	8	9	9	14	21	N	10	9	8	9	10	10	8	9	11	17	15	
8-Dec-06	17	13	8	8	6	7	7	7	11	7	7	N	8	10	11	11	6	7	6	7	8	10	9	
9-Dec-06	5	7	6	7	5	9	8	8	13	7	N	12	12	N	10	8	5	7	8	8	9	7	8	7
10-Dec-06	7	7	7	4	4	4	6	7	7	N	9	9	7	7	7	22	26	12	11	7	9	5	5	5
11-Dec-06	5	5	7	12	6	9	8	7	N	9	12	8	4	6	5	6	8	8	7	7	8	9	9	7
12-Dec-06	6	6	7	8	6	N	9	10	9	9	15	14	15	18	14	8	6	9	8	10	9	11	11	10
13-Dec-06	10	8	8	6	N	13	12	6	6	6	9	7	7	9	9	10	9	9	9	8	9	9	9	7
14-Dec-06	6	7	8	N	7	7	7	10	8	10	13	15	15	12	13	9	8	11	12	10	9	7	12	14
15-Dec-06	16	15	N	17	15	14	12	10	9	9	7	8	10	12	12	11	7	6	12	12	10	8	8	8
16-Dec-06	10	N	12	11	8	7	8	8	7	7	7	9	8	6	7	8	10	11	12	16	21	18	10	12
17-Dec-06	N	8	8	7	6	7	7	7	7	7	6	6	7	7	7	7	7	8	8	8	8	7	8	N
18-Dec-06	12	10	11	10	10	9	11	12	12	11	8	N	N	N	N	N	N	15	8	4	8	7	7	7
19-Dec-06	11	16	17	18	19	N	19	17	17	16	14	15	16	16	12	N	N	8	9	9	10	7	8	8
20-Dec-06	9	10	10	11	N	10	9	9	9	8	8	7	6	8	9	9	10	10	10	9	9	9	9	8
21-Dec-06	8	6	10	N	15	12	10	14	13	15	13	11	17	12	14	11	10	13	12	13	12	17	18	18
22-Dec-06	17	16	N	17	16	15	14	14	10	11	13	15	15	15	15	11	7	9	9	6	9	10	9	8
23-Dec-06	8	N	9	6	6	6	5	6	6	6	6	7	8	7	7	7	13	15	15	16	14	8	14	15
24-Dec-06	N	16	17	17	17	17	14	8	10	9	9	8	10	10	14	13	N	13	13	15	15	14	14	N
25-Dec-06	13	10	10	10	9	6	6	6	7	9	7	9	8	12	15	18	15	7	9	9	8	7	N	10
26-Dec-06	15	9	7	7	13	15	15	15	14	16	16	16	16	16	17	16	17	17	14	16	14	N	10	7
27-Dec-06	9	11	7	7	6	10	6	6	8	8	8	7	7	7	8	7	9	8	8	8	N	7	7	9
28-Dec-06	14	15	15	13	13	8	8	8	9	10	9	6	8	8	9	9	9	8	8	N	8	8	8	8
29-Dec-06	10	12	9	7	7	7	7	7	7	7	11	10	10	8	8	6	8	N	7	14	17	17	17	17
30-Dec-06	17	18	18	17	18	18	15	14	13	8	15	17	17	17	17	17	N	15	16	15	16	17	17	17
31-Dec-06	15	11	7	10	11	6	8	9	10	6	7	6	7	8	7	8	N	10	10	10	10	11	59	16

PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

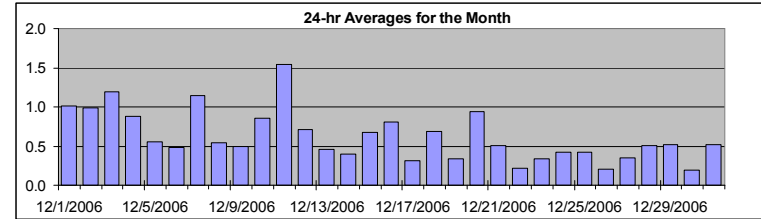
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 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:	2.9 ppb 2-Dec 23:00 0:00
Maximum 24-hr Average:	1.5 ppb 11-Dec



AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	1.5	0.8	0.5	0.3	0.1	0.1	0.6 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	A	1	1	1	0	0	1.0	1.7
2-Dec-06	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	3	3	1.0	2.9
3-Dec-06	2	2	2	2	2	2	2	1	1	2	1	1	1	1	1	1	A	1	0	0	0	1	1	0	1.2	2.4
4-Dec-06	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	0	0.9	1.4
5-Dec-06	0	0	1	0	1	1	1	0	0	0	0	1	1	1	A	0	0	1	1	1	1	0	0	0	0.6	1.2
6-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	1	1	0	1	1	0	0.5	1.2
7-Dec-06	1	1	1	1	1	1	1	1	1	1	2	2	A	1	1	1	1	1	1	1	1	2	1	1	1.1	2.2
8-Dec-06	1	1	1	1	0	0	0	0	1	0	0	A	1	1	1	0	0	0	0	0	0	0	1	0	0.5	1.4
9-Dec-06	0	0	0	0	0	1	1	0	0	1	A	1	1	1	1	1	0	1	0	0	0	0	0	0	0.5	1.1
10-Dec-06	1	0	0	0	0	0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	0.8	1.8	
11-Dec-06	2	1	1	1	1	1	1	2	A	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1.5	2.0
12-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0.7	1.3
13-Dec-06	1	0	0	0	A	0	0	0	0	0	0	1	1	1	1	0	0	1	0	1	0	1	0	0	0.5	1.0
14-Dec-06	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.4	1.2
15-Dec-06	0	0	A	0	0	0	0	1	0	0	0	0	0	0	2	3	1	1	1	1	1	1	0	0	0.7	2.7
16-Dec-06	0	A	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	2	2	2	2	1	1	0.8	2.1
17-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	A	0.3	0.6
18-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	A	0	0	0	0	0	0	0	0.7	1.4
19-Dec-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.3	1.1
20-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9	1.4
21-Dec-06	0	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3
22-Dec-06	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	0.5
23-Dec-06	1	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
24-Dec-06	A	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	A	0.4	0.9
25-Dec-06	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	1	1	0	1	1	1	A	0	0.4	0.6
26-Dec-06	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5
27-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	A	1	0	0	0.4	0.7
28-Dec-06	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	0.5	1.0
29-Dec-06	1	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	A	1	1	1	0	0	0.5	0.8
30-Dec-06	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
31-Dec-06	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	A	1	1	1	1	1	1	1	0.5	1.1
Hourly Avg	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.6		
Hourly Max	2.2	1.8	2.4	2.4	1.7	1.8	1.5	1.6	1.4	2.1	1.8	2.2	1.6	2.1	2.7	2.0	1.8	1.8	2.0	2.1	2.0	1.6	2.5	2.9		

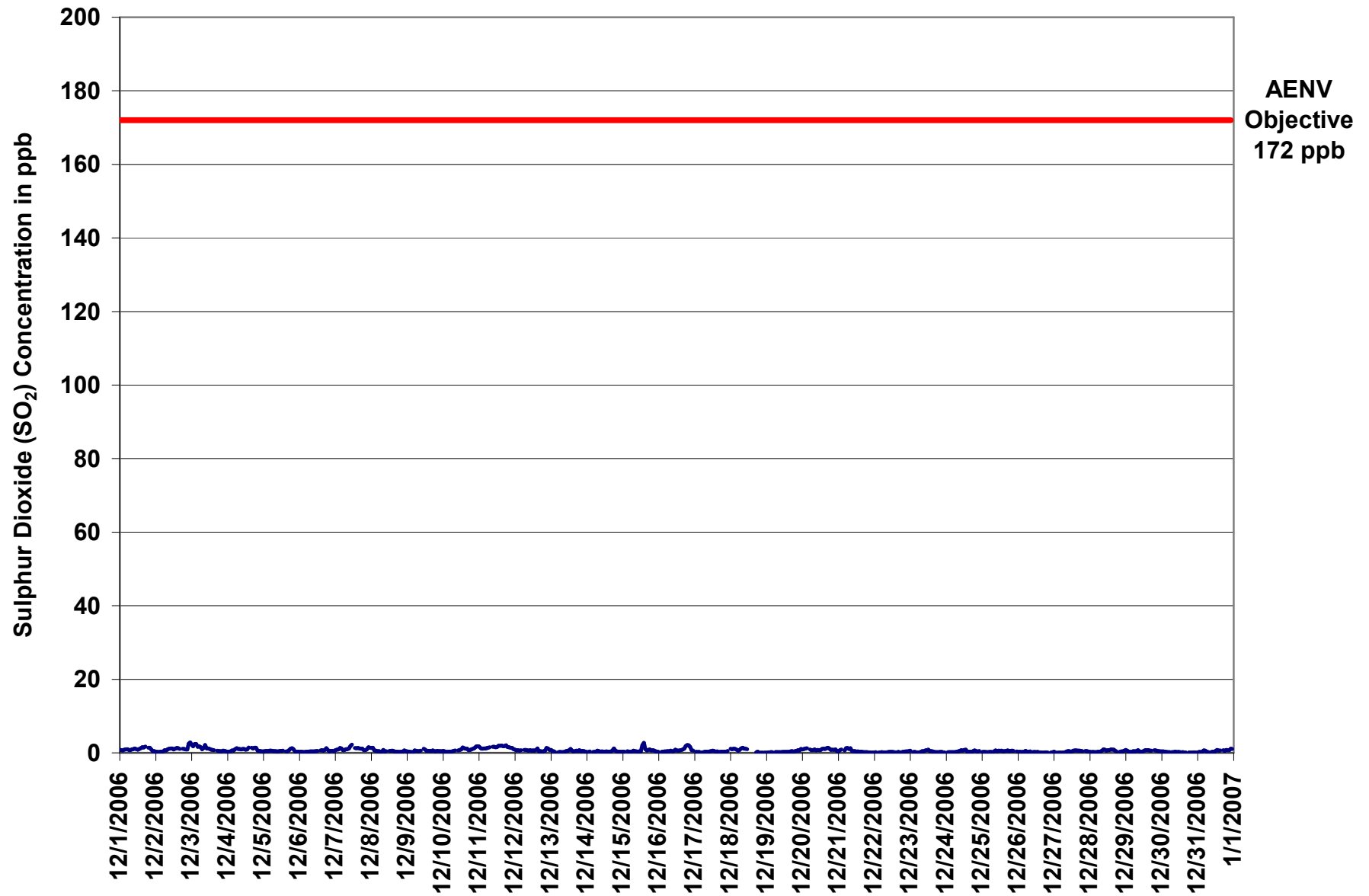


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

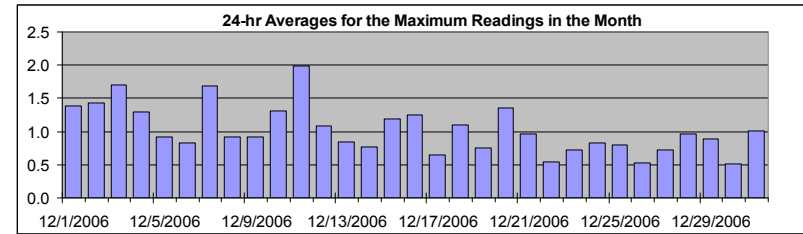
Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	4.0	ppb	2-Dec	23:00 0:00
Maximum 24-hr Value:	2.0	ppb	11-Dec	

AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	2.2	1.3	0.9	0.6	0.4	0.3	1.0 ppb	0.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								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-Dec-06	1	1	1	1	1	2	1	1	1	1	1	2	1	2	2	2	2	2	A	2	2	2	1	1	1.4	2.2	
2-Dec-06	1	1	0	1	0	1	1	1	1	2	2	1	1	2	2	2	2	A	1	1	1	1	3	4	1.4	4.0	
3-Dec-06	3	2	3	3	2	3	3	1	2	3	2	2	2	1	1	1	A	1	1	1	1	1	1	1	1.7	3.2	
4-Dec-06	1	1	1	1	1	2	2	1	2	1	1	1	1	1	2	A	2	1	2	2	1	1	1	1	1.3	2.2	
5-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	2	1	1	1	1	0.9	2.0	
6-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	0.8	1.6	
7-Dec-06	1	1	1	2	2	1	1	2	1	2	2	3	A	2	2	2	2	2	2	2	1	1	2	2	2	1.7	3.2
8-Dec-06	2	2	1	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.1	
9-Dec-06	1	1	1	0	0	1	1	1	1	1	A	2	1	1	1	1	1	2	1	1	1	1	1	1	0.9	1.6	
10-Dec-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	3	2	2	2	1	1	1	1	2	2	2	1.3	2.5
11-Dec-06	3	2	1	2	1	2	2	2	A	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2.0	2.6	
12-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1.1	1.8	
13-Dec-06	1	1	1	1	A	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0.8	1.7	
14-Dec-06	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.8	1.7	
15-Dec-06	1	1	A	1	1	1	1	1	1	1	1	1	1	3	4	3	2	1	2	1	1	1	1	1	1.2	3.6	
16-Dec-06	1	A	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2	2	3	3	2	1	1	1.3	2.7	
17-Dec-06	A	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	1.1	
18-Dec-06	1	1	1	1	1	1	1	2	2	2	2	1	C	C	C	C	A	1	1	1	0	0	0	0	1.1	1.8	
19-Dec-06	0	0	0	0	1	A	1	0	0	1	0	1	1	1	1	2	1	1	1	1	1	1	1	1	0.8	2.0	
20-Dec-06	1	1	2	2	A	1	1	1	1	1	1	1	1	2	2	1	2	2	2	1	1	1	2	1	1.4	1.8	
21-Dec-06	1	1	2	A	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1.0	2.4	
22-Dec-06	0	0	A	1	0	1	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0.5	0.8	
23-Dec-06	1	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0.7	1.5	
24-Dec-06	A	0	1	1	0	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	A	0.8	2.6	
25-Dec-06	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.4	
26-Dec-06	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	A	0	0.5	0.9	
27-Dec-06	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.1	
28-Dec-06	1	1	1	1	0	1	1	1	1	2	2	1	1	1	1	2	1	1	1	A	1	1	1	1	1.0	1.9	
29-Dec-06	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	
30-Dec-06	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0.5	0.7	
31-Dec-06	0	1	1	1	1	1	1	1	0	1	1	1	1	3	1	1	A	1	1	1	1	1	2	1	1.0	2.6	
Hourly Avg	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.0	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.0			
Hourly Max	3.2	2.4	3.2	2.8	2.4	2.7	2.5	2.0	2.1	2.7	2.3	3.2	1.9	3.1	3.6	3.0	2.1	2.4	2.6	2.7	2.7	2.5	3.4	4.0			

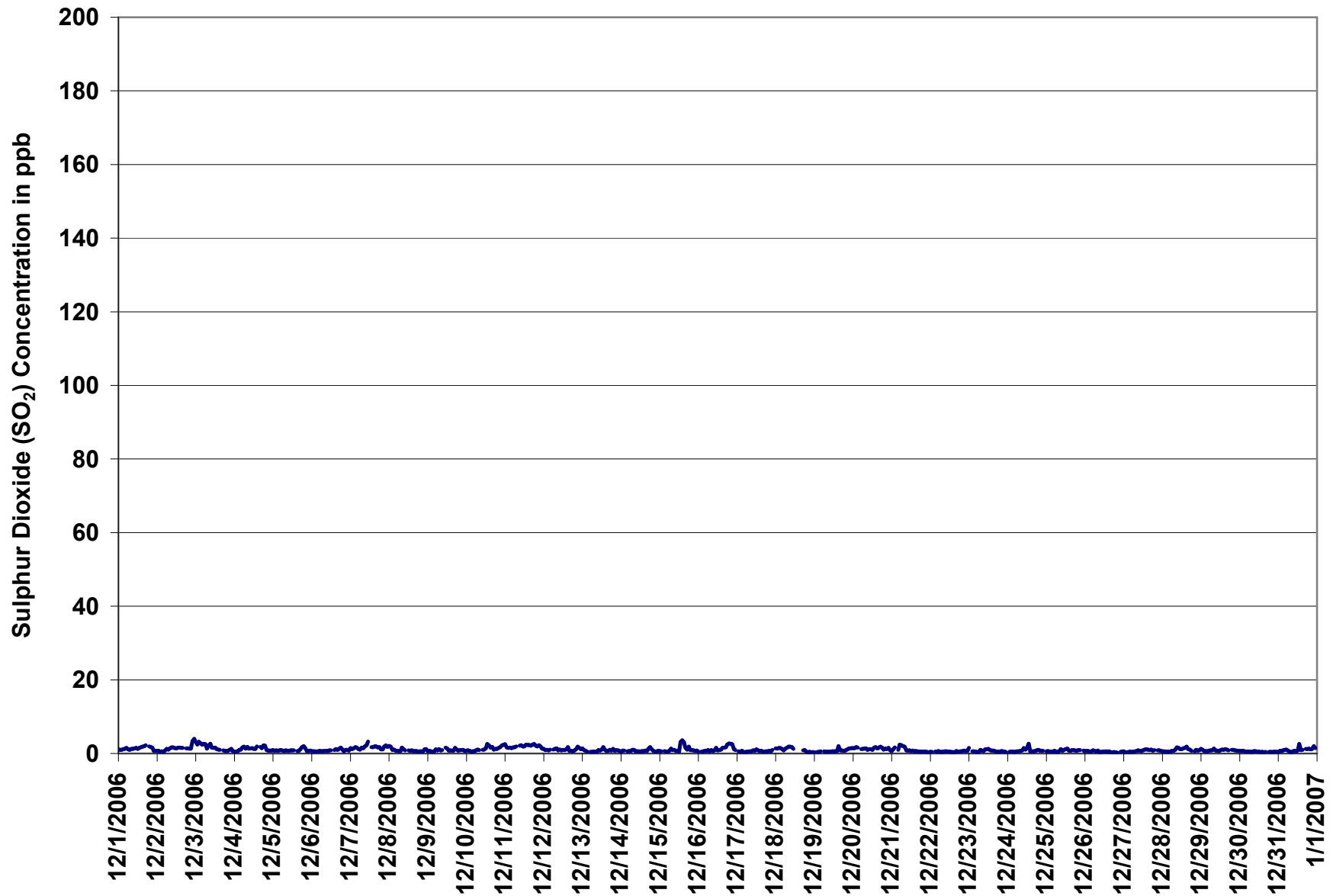
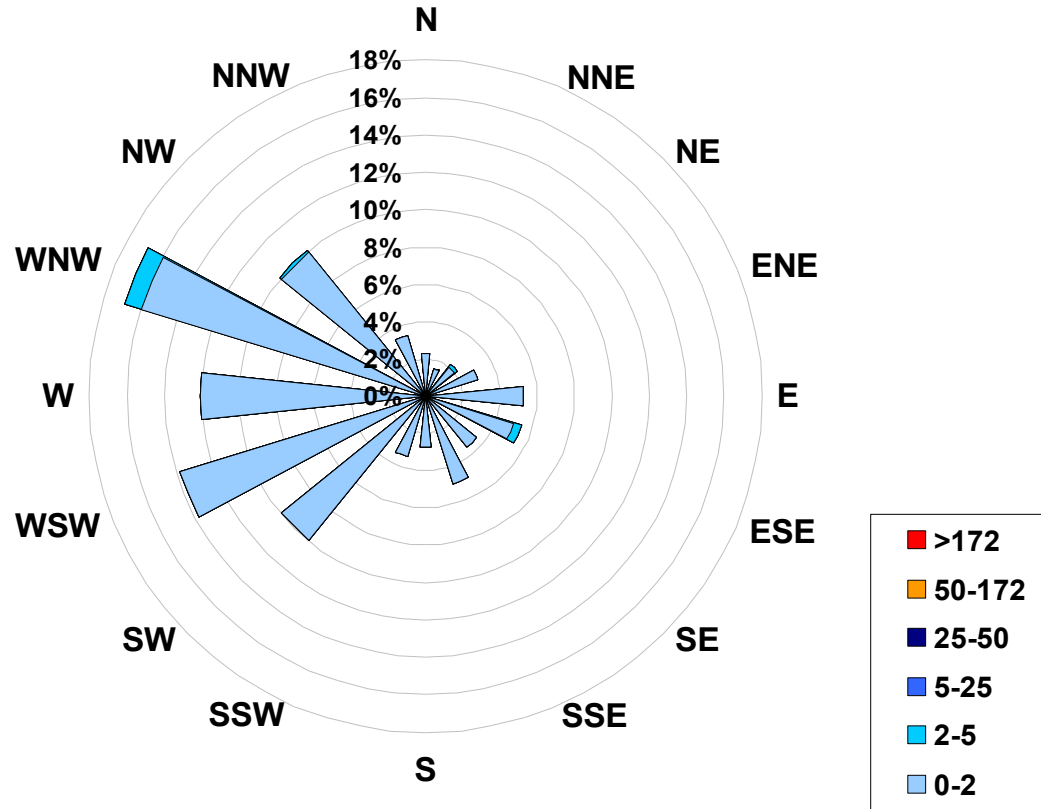


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		695
2	to 5		12
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			707

PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

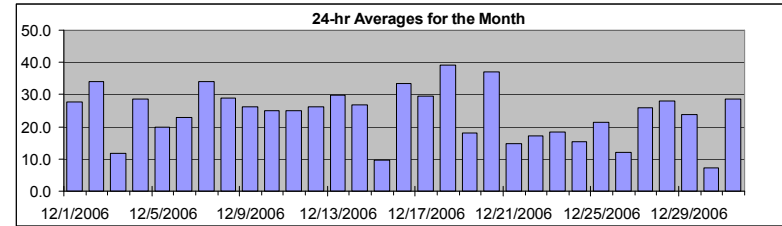
Monitoring Dates: December 1, 2006 to January 1, 2007

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:	59.9	ppb	16-Dec	20:00	21:00
Maximum 24-hr Average:	39.3	ppb	18-Dec		

AIC Time:	33 hrs		Operational Time:	706 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	51.5	43.8	33.3	25.3	13.0	4.8	2.9	24.0 ppb	25.3 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	24:00		
1-Dec-06	9	5	3	5	2	4	10	28	44	33	27	29	23	26	29	39	47	57	A	53	52	43	35	36	27.8	57.1	
2-Dec-06	33	27	30	29	28	26	32	33	39	44	45	39	36	40	44	41	39	A	37	38	37	29	20	15	34.0	45.1	
3-Dec-06	5	4	2	2	3	3	4	4	5	6	8	17	15	10	10	14	A	18	12	13	22	34	32	28	11.8	34.0	
4-Dec-06	15	11	9	10	13	26	34	37	34	32	33	32	27	31	44	A	47	42	45	44	27	24	19	21	28.6	47.4	
5-Dec-06	22	12	9	8	13	18	16	11	15	11	12	8	10	12	A	9	24	43	48	47	43	26	17	23	19.8	48.2	
6-Dec-06	27	20	13	16	27	15	20	18	21	16	13	14	17	A	25	28	29	33	37	32	26	29	24	23	22.8	37.1	
7-Dec-06	29	29	31	35	33	27	28	29	28	30	37	48	A	26	28	36	39	39	38	34	36	38	44	42	34.1	48.3	
8-Dec-06	42	41	34	34	23	29	28	31	45	28	29	A	24	19	14	13	24	26	30	24	23	32	40	36	29.1	44.7	
9-Dec-06	22	27	25	15	21	36	34	31	32	27	A	38	26	9	11	16	20	28	32	31	31	30	30	28	26.2	38.3	
10-Dec-06	29	27	27	18	16	18	24	27	27	A	25	26	22	23	24	37	38	28	26	24	23	21	21	21	24.9	38.2	
11-Dec-06	21	21	21	20	20	20	21	23	A	28	28	20	16	19	22	26	30	33	29	20	35	36	34	29	24.9	36.1	
12-Dec-06	27	27	27	25	25	A	31	31	30	13	4	7	4	4	11	33	25	36	32	40	40	47	45	40	26.3	46.5	
13-Dec-06	37	34	34	27	A	9	12	24	23	26	37	29	28	25	25	32	39	38	37	37	35	35	36	29	29.9	38.6	
14-Dec-06	26	29	33	A	31	29	25	42	35	20	14	10	10	15	13	23	34	45	51	41	38	28	13	9	26.7	51.5	
15-Dec-06	6	7	A	5	5	5	7	8	10	11	16	15	11	6	6	10	17	15	7	6	11	14	15	14	9.7	16.5	
16-Dec-06	10	A	7	9	17	31	33	32	31	30	29	33	30	26	31	36	40	46	52	55	60	53	38	36	33.3	59.9	
17-Dec-06	A	34	32	29	24	30	29	31	30	29	27	27	24	26	25	28	30	32	33	32	34	31	35	A	29.6	35.1	
18-Dec-06	46	42	44	44	41	38	46	50	51	50	46	33	C	C	C	C	C	A	44	31	19	25	30	26	39.3	51.5	
19-Dec-06	16	7	5	2	1	A	4	7	7	9	9	12	10	9	8	17	35	35	38	40	40	40	27	34	17.9	40.1	
20-Dec-06	38	40	42	45	A	40	37	36	37	32	33	28	26	35	36	36	43	43	42	37	37	36	37	33	36.9	45.4	
21-Dec-06	32	26	15	A	9	14	21	14	14	10	15	20	8	19	14	19	21	14	14	12	16	5	3	3	14.7	31.8	
22-Dec-06	4	5	A	5	6	8	10	11	19	17	13	9	9	8	8	18	27	21	21	27	38	40	36	35	17.3	40.1	
23-Dec-06	21	A	19	22	24	23	21	19	21	20	24	28	32	21	27	23	12	8	7	5	9	21	9	6	18.3	31.8	
24-Dec-06	A	5	4	3	4	4	10	34	40	40	37	26	19	20	11	12	10	10	12	8	8	10	9	A	15.3	40.4	
25-Dec-06	10	14	13	12	13	18	25	17	31	39	28	25	19	15	9	5	12	30	39	35	36	29	A	19	21.4	38.8	
26-Dec-06	8	20	24	25	12	8	8	9	11	8	8	7	8	9	7	8	6	7	13	7	11	A	20	31	11.9	31.1	
27-Dec-06	38	16	23	31	26	17	23	26	32	36	32	25	24	30	33	24	19	22	33	21	A	29	23	18	26.0	38.0	
28-Dec-06	6	4	5	9	8	18	33	36	38	42	39	26	34	34	37	37	38	36	32	A	33	33	33	35	28.1	42.3	
29-Dec-06	36	32	31	29	28	30	29	30	31	29	22	14	15	16	20	32	22	33	A	31	12	9	6	7	23.7	35.9	
30-Dec-06	5	4	3	5	3	4	10	12	14	24	10	6	5	5	4	5	6	A	9	7	8	7	6	5	7.3	24.2	
31-Dec-06	9	15	22	15	15	23	19	17	15	22	29	24	28	32	27	34	A	42	40	42	43	45	50	46	28.5	50.1	
Hourly Avg	21.6	20.2	20.4	18.4	16.9	19.7	22.0	24.4	27.1	25.5	24.3	22.5	19.4	19.6	20.9	23.8	27.6	30.7	30.7	29.2	29.4	29.3	26.3	25.1			
Hourly Max	46.2	42.3	44.4	45.4	40.6	40.2	45.9	49.7	51.5	50.3	46.4	48.3	35.8	39.7	44.5	41.0	47.4	57.1	52.4	55.2	59.9	53.2	50.1	46.3			

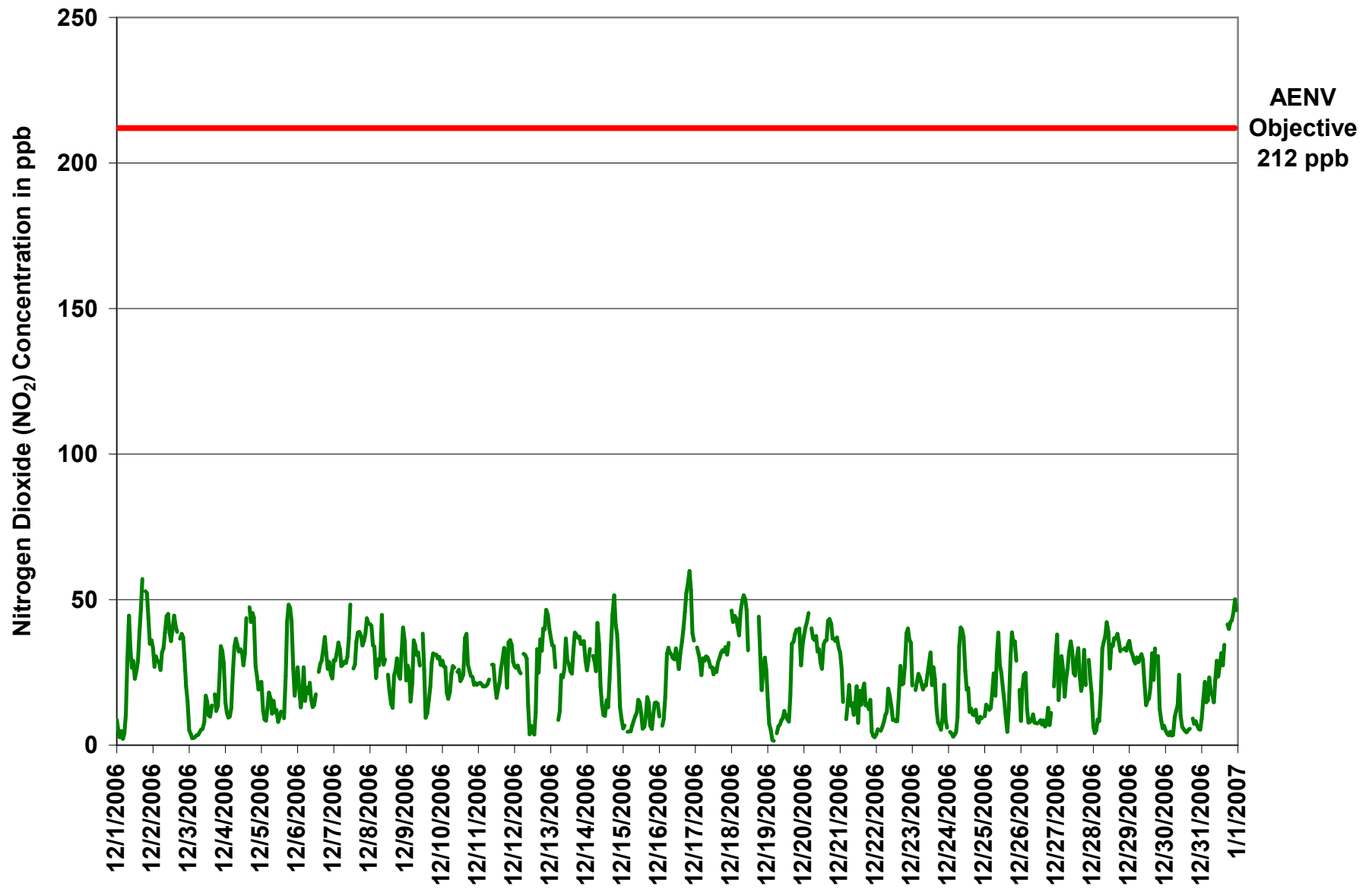


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

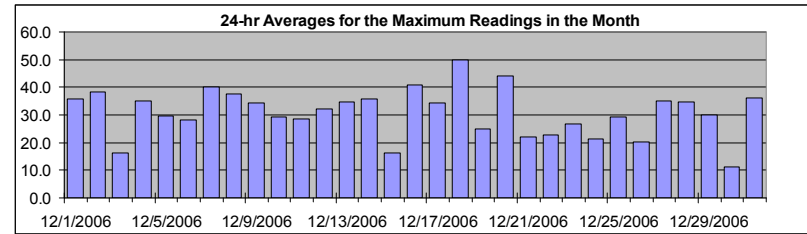
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	93.2	ppb	5-Dec	13:00 14:00
Maximum 24-hr Value:	49.9	ppb	18-Dec	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	66.7	52.6	39.8	32.7	20.8	8.0	4.2	30.7 ppb	32.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	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-Dec-06	34	9	5	12	3	9	23	40	48	40	36	36	27	36	40	46	53	67	A	63	60	50	42	40	35.7	66.8
2-Dec-06	36	32	33	32	31	30	36	38	46	58	50	43	41	46	47	43	41	A	40	41	41	34	30	19	38.5	57.6
3-Dec-06	9	5	3	3	4	5	5	8	8	9	15	26	20	18	14	21	A	24	16	20	33	40	38	34	16.4	39.5
4-Dec-06	21	21	12	12	16	36	40	39	47	37	41	39	36	37	56	A	51	45	59	54	32	27	23	28	35.1	58.8
5-Dec-06	28	21	14	16	18	22	21	15	19	15	16	13	12	93	A	16	42	49	54	59	50	30	26	34	29.7	93.2
6-Dec-06	34	24	21	22	35	31	24	25	26	21	15	17	21	A	30	33	33	36	39	35	30	33	33	26	28.0	39.3
7-Dec-06	36	32	36	37	36	32	34	34	33	40	43	67	A	33	31	47	44	45	43	36	40	50	50	47	40.2	66.7
8-Dec-06	51	49	39	50	36	37	38	42	54	48	38	A	30	22	20	17	33	34	38	34	37	39	43	41	37.8	54.2
9-Dec-06	37	33	31	26	33	42	37	44	37	35	A	57	46	12	13	23	29	43	37	41	36	35	36	29	34.5	57.2
10-Dec-06	41	32	29	26	21	24	29	29	29	A	30	30	25	24	27	44	48	33	29	25	26	24	23	22	29.1	47.6
11-Dec-06	25	23	25	22	22	23	23	26	A	33	37	25	19	23	24	31	33	38	35	23	39	38	38	30	28.5	38.6
12-Dec-06	29	29	30	28	27	A	33	36	42	24	5	12	10	6	33	38	35	42	40	44	48	53	53	44	32.2	53.3
13-Dec-06	40	38	39	36	A	10	17	33	32	31	41	36	32	31	30	39	42	40	39	41	39	39	37	36	34.8	41.7
14-Dec-06	30	36	36	A	38	45	43	48	54	25	22	14	14	28	26	42	45	52	65	48	43	37	20	12	35.8	64.5
15-Dec-06	12	10	A	10	8	9	11	11	15	17	25	28	16	10	11	16	25	31	10	8	23	22	23	24	16.4	31.3
16-Dec-06	15	A	21	20	28	35	37	34	35	35	37	43	39	31	42	47	47	53	62	66	64	67	45	40	41.0	66.9
17-Dec-06	A	38	33	34	30	33	31	33	33	38	34	32	27	30	37	36	36	36	35	37	37	33	39	A	34.2	38.6
18-Dec-06	52	46	48	48	44	41	76	71	58	86	58	40	C	C	C	C	C	A	49	45	26	35	38	36	49.9	85.6
19-Dec-06	31	14	11	3	2	A	6	9	9	12	13	24	13	13	14	41	44	46	44	42	45	48	40	46	24.9	47.9
20-Dec-06	43	49	53	54	A	54	55	40	48	38	39	37	33	41	42	44	47	53	46	40	42	40	42	36	44.1	55.2
21-Dec-06	34	36	25	A	11	24	35	21	19	13	21	30	10	33	26	29	29	25	23	20	22	11	5	5	22.0	35.9
22-Dec-06	6	8	A	6	8	12	14	16	25	20	18	13	12	12	15	35	42	31	32	37	41	43	41	40	22.9	42.8
23-Dec-06	33	A	27	27	30	30	27	23	47	34	32	35	35	27	33	30	29	11	9	10	31	30	16	11	26.9	47.1
24-Dec-06	A	8	4	4	4	5	23	42	46	45	53	42	26	29	16	20	16	14	25	11	10	12	13	A	21.3	53.3
25-Dec-06	17	22	22	15	18	25	29	23	35	52	31	30	25	26	17	8	26	45	43	41	43	40	A	41	29.2	52.1
26-Dec-06	11	37	38	39	29	10	16	11	16	11	11	11	10	13	10	14	12	12	31	15	24	A	35	49	20.1	49.5
27-Dec-06	47	22	34	37	35	21	35	34	41	40	39	33	34	37	44	36	24	34	38	35	A	39	28	40	35.0	47.3
28-Dec-06	9	9	8	11	13	34	37	47	40	52	49	44	44	43	45	41	43	39	35	A	37	40	36	39	34.6	52.2
29-Dec-06	41	36	33	32	31	34	33	34	37	34	35	22	24	23	33	38	32	36	A	37	27	19	8	12	30.1	41.4
30-Dec-06	7	6	4	6	4	6	16	16	18	40	25	8	8	7	6	7	A	13	11	12	9	10	10	10	11.0	40.5
31-Dec-06	14	24	30	19	21	31	29	22	18	28	49	31	35	36	35	40	A	45	44	45	52	60	73	53	36.2	73.2
Hourly Avg	28.3	25.7	25.7	23.8	21.9	25.8	29.5	30.4	33.8	33.6	31.9	30.6	24.9	28.3	28.2	31.8	35.3	37.8	37.1	35.5	36.3	35.9	32.8	31.9		
Hourly Max	51.8	48.8	52.5	54.2	44.0	53.7	75.6	70.9	58.3	85.6	58.5	66.7	46.3	93.2	55.7	47.1	53.2	66.8	64.5	65.7	64.4	66.9	73.2	52.8		

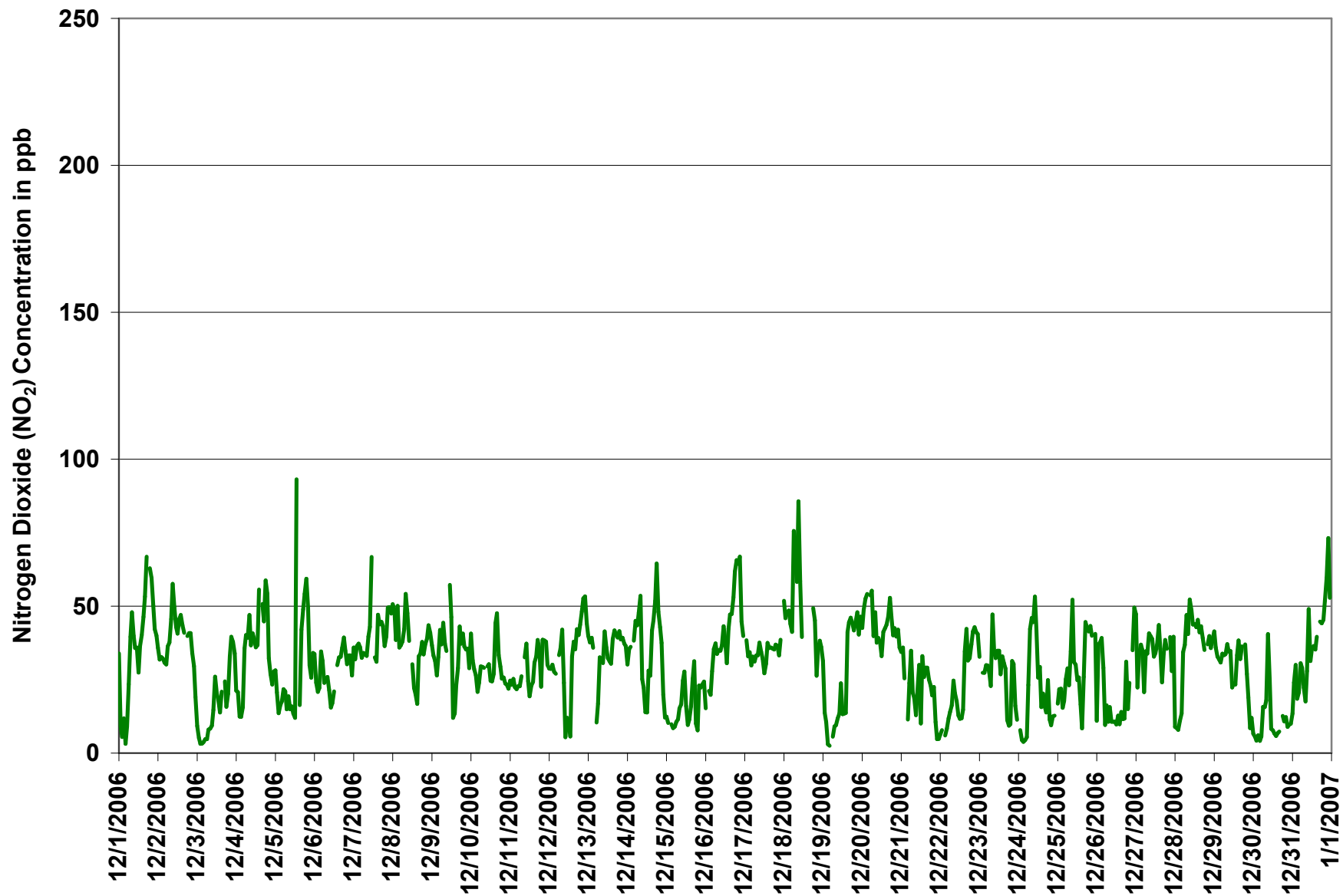
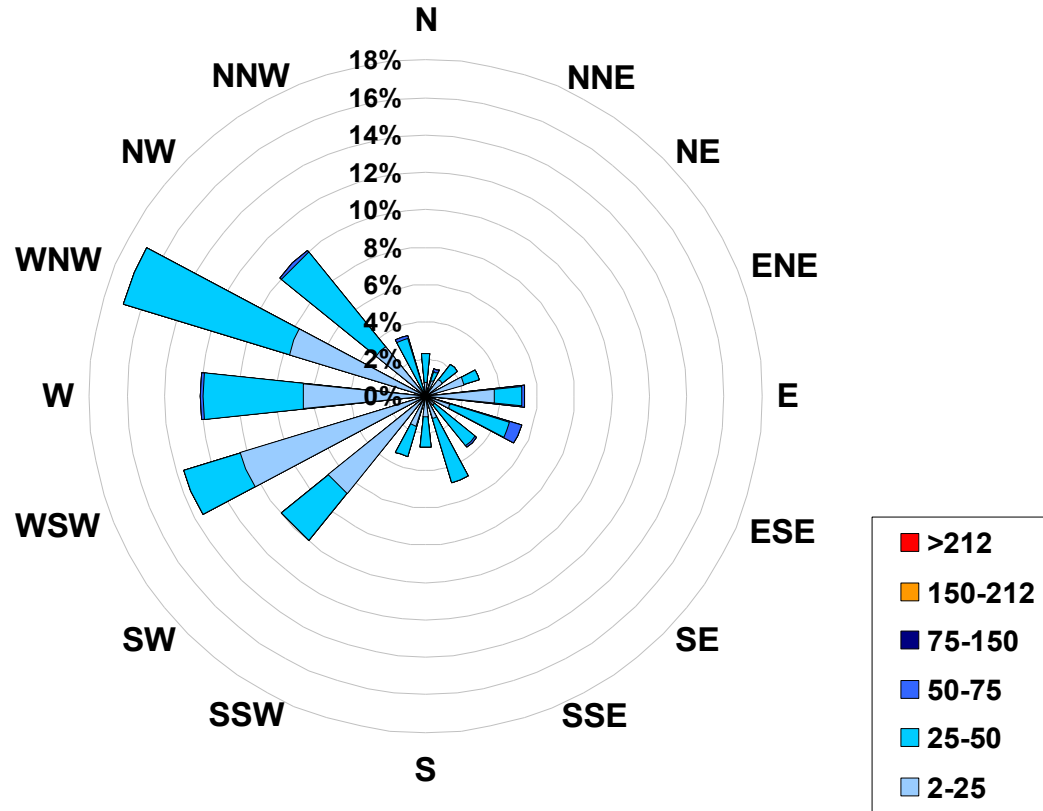


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		458
25	to 50		94
50	to 75		64
75	to 150		77
150	to 212		8
	> 212		5
Total Non-Zero Values			706

PASZA - Henry Pirker - Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

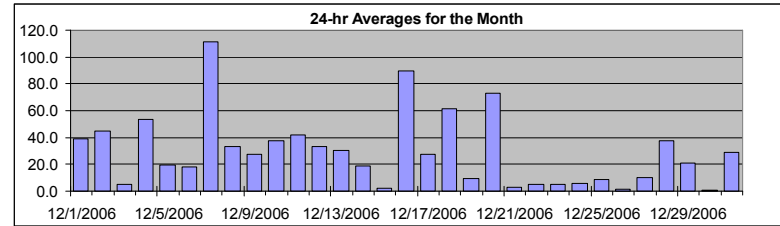
Nitric Oxide (NO)

Monitoring Dates: December 1, 2006 to January 1, 2007

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

Maximum 1-hr Average:	295.4	ppb	16-Dec	19:00	20:00
Maximum 24-hr Average:	111.5	ppb	7-Dec		



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	170.7	115.0	41.8	10.3	1.4	0.1	0.0	29.0 ppb	10.3 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-Dec-06	0	0	0	0	0	0	0	2	28	9	12	21	18	24	27	37	79	171	A	137	163	102	26	45	39.1	170.9	
2-Dec-06	23	5	11	8	6	4	41	52	83	108	119	88	67	80	86	66	50	A	47	60	30	4	1	0	45.1	118.7	
3-Dec-06	0	0	0	0	0	0	0	0	0	0	1	6	5	3	2	3	A	2	2	2	5	34	38	11	5.0	38.2	
4-Dec-06	0	0	0	0	0	24	57	90	93	79	80	69	51	68	126	A	109	86	116	123	28	18	4	7	53.5	126.2	
5-Dec-06	8	2	2	1	3	6	5	1	1	1	3	3	5	7	A	2	10	52	103	125	98	7	2	4	19.6	124.9	
6-Dec-06	3	1	1	0	7	2	3	4	6	4	4	8	14	A	31	36	30	66	100	45	11	26	15	6	18.3	99.8	
7-Dec-06	55	62	86	131	110	57	58	94	95	124	200	242	A	69	73	143	120	119	122	67	80	107	180	168	111.5	242.5	
8-Dec-06	160	162	78	64	15	4	6	14	71	15	14	A	13	10	6	3	6	6	12	3	4	12	60	29	33.4	161.8	
9-Dec-06	9	12	7	1	3	60	63	40	47	22	A	86	56	5	5	5	23	29	31	37	25	42	16	27.3	86.1		
10-Dec-06	38	30	16	2	0	2	16	39	46	A	52	63	41	42	39	93	107	68	46	41	33	15	17	14	37.4	107.3	
11-Dec-06	18	20	20	13	11	13	29	36	A	77	98	56	32	40	49	76	64	55	9	2	65	86	67	20	41.6	98.2	
12-Dec-06	22	13	23	13	7	A	51	51	49	2	1	2	1	1	5	24	9	22	12	34	48	159	138	84	33.5	159.2	
13-Dec-06	94	52	33	4	A	1	1	4	5	6	34	24	32	24	16	20	31	26	34	81	43	52	58	21	30.2	93.8	
14-Dec-06	7	21	31	A	9	14	9	33	25	3	4	4	4	8	5	12	13	50	119	37	24	4	2	1	19.0	118.9	
15-Dec-06	1	1	A	1	1	1	2	2	3	2	4	5	4	2	2	2	1	3	1	0	1	2	2	2	2.1	5.4	
16-Dec-06	1	A	0	0	1	13	46	33	56	36	52	93	68	46	52	66	112	150	251	295	277	224	106	79	89.4	295.4	
17-Dec-06	A	19	15	12	3	8	18	26	29	29	47	55	41	42	31	37	24	21	29	20	31	19	42	A	27.2	54.8	
18-Dec-06	118	112	126	110	61	25	57	99	134	97	82	29	C	C	C	C	A	38	9	0	2	2	1	61.2	134.1		
19-Dec-06	0	0	0	0	0	A	0	1	1	1	2	5	3	3	3	6	14	26	18	21	23	54	10	22	9.3	53.7	
20-Dec-06	53	87	106	123	A	77	50	67	86	46	69	34	24	50	65	63	118	140	118	63	67	71	83	20	73.0	139.6	
21-Dec-06	10	3	1	A	0	1	2	0	0	0	3	9	2	8	5	4	4	1	1	1	1	1	0	0	2.6	10.0	
22-Dec-06	0	1	A	0	1	1	1	2	4	4	4	4	4	3	3	5	13	2	1	3	11	21	13	11	4.9	21.4	
23-Dec-06	3	A	1	0	1	1	1	1	3	4	10	20	33	12	19	9	2	1	0	0	1	2	0	0	5.3	33.3	
24-Dec-06	A	0	0	0	0	0	0	6	10	21	36	20	9	9	3	2	1	1	1	1	1	1	0	A	5.6	36.2	
25-Dec-06	0	0	0	0	0	0	1	0	14	46	22	28	16	7	3	0	1	14	15	7	12	9	A	1	8.6	45.8	
26-Dec-06	0	1	1	2	0	0	0	0	0	0	2	2	3	3	2	1	0	0	1	0	0	A	1	7	1.2	7.2	
27-Dec-06	20	0	1	3	1	0	2	4	16	29	25	16	18	33	32	9	1	2	10	2	A	8	1	1	10.2	33.1	
28-Dec-06	0	0	0	0	0	1	7	23	45	87	74	34	81	69	72	77	85	49	18	A	22	32	31	53	37.4	87.1	
29-Dec-06	86	51	36	12	8	31	33	36	64	24	16	4	6	7	7	30	5	14	A	15	1	0	0	0	21.1	86.1	
30-Dec-06	0	0	0	0	0	0	0	0	0	0	5	2	2	2	2	1	1	1	A	0	0	0	0	0	0	0.7	4.6
31-Dec-06	0	0	0	0	0	0	0	0	0	2	15	13	22	27	18	32	A	66	49	79	59	61	118	105	29.0	117.6	
Hourly Avg	25.2	22.6	20.5	17.4	8.6	12.0	18.1	24.5	33.8	29.5	36.1	34.8	23.3	24.3	27.1	29.8	36.2	44.1	44.9	43.5	39.1	38.7	35.3	25.2			
Hourly Max	160.3	161.8	125.6	131.4	110.1	77.2	62.5	98.9	134.1	123.7	200.4	242.5	81.4	79.6	126.2	143.3	120.1	170.9	250.9	295.4	276.7	223.7	180.5	168.0			

PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

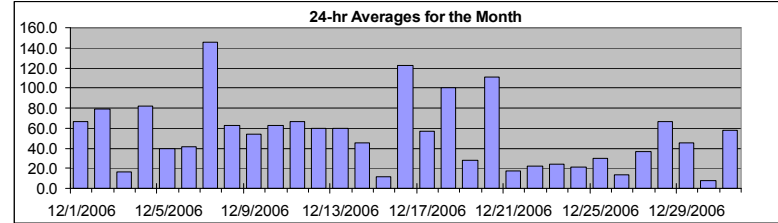
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Maximum 1-hr Average:	350.5	ppb	16-Dec	19:00 20:00
Maximum 24-hr Average:	145.7	ppb	7-Dec	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	223.7	155.9	73.5	38.0	14.9	5.3	2.9	53.0 ppb	38.0 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	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-Dec-06	8	4	2	4	1	3	10	31	73	42	38	50	41	50	56	75	125	228	A	190	215	146	61	81	66.6	228.0
2-Dec-06	56	32	41	37	35	30	73	85	121	152	164	127	102	119	130	107	89	A	83	98	67	34	21	16	79.2	163.8
3-Dec-06	5	4	2	2	3	3	4	4	5	6	9	23	20	14	12	16	A	20	14	15	27	68	71	39	16.8	70.5
4-Dec-06	15	11	9	10	13	49	91	126	128	112	113	101	79	100	170	A	156	129	162	167	55	41	23	29	82.2	170.0
5-Dec-06	30	14	11	10	15	24	21	12	16	12	15	11	15	18	A	11	34	94	151	172	141	34	19	27	39.5	172.2
6-Dec-06	30	21	14	17	34	18	23	22	27	19	17	22	32	A	56	64	59	99	137	76	37	55	39	29	41.2	137.1
7-Dec-06	85	92	118	167	143	84	86	123	124	154	237	291	A	95	101	179	159	158	160	101	116	145	224	210	145.7	290.8
8-Dec-06	202	203	113	98	38	34	34	45	116	43	44	A	37	29	20	16	30	32	42	27	27	45	101	65	62.6	202.9
9-Dec-06	32	39	32	16	25	96	97	71	79	49	A	124	82	15	16	21	25	51	61	62	68	55	72	44	53.6	124.5
10-Dec-06	67	57	43	20	16	21	40	66	73	A	77	89	63	65	63	129	146	96	71	65	56	36	38	35	62.3	145.5
11-Dec-06	39	42	41	33	31	34	50	59	A	105	126	76	48	59	70	102	94	89	38	22	100	122	102	49	66.5	125.6
12-Dec-06	49	39	50	39	32	A	83	82	79	16	4	8	6	5	16	57	34	58	45	74	88	206	183	124	59.8	205.7
13-Dec-06	131	86	67	31	A	9	13	28	29	32	70	53	60	50	40	52	69	64	70	119	77	87	93	50	60.0	131.0
14-Dec-06	32	50	64	A	40	43	34	75	59	23	17	14	14	23	18	35	48	95	170	78	63	32	15	10	45.7	170.5
15-Dec-06	7	8	A	6	6	6	9	11	13	14	20	20	15	8	9	12	18	18	8	6	12	17	17	16	12.0	20.3
16-Dec-06	11	A	7	9	17	44	80	65	88	66	81	126	98	73	83	102	152	195	303	350	336	277	144	115	122.8	350.5
17-Dec-06	A	53	47	41	27	38	47	57	59	58	74	82	65	69	56	65	54	53	61	52	64	50	77	A	56.8	81.6
18-Dec-06	164	154	170	154	102	62	103	149	186	147	128	61	C	C	C	C	C	A	82	41	19	27	32	27	100.5	185.6
19-Dec-06	16	7	6	2	2	A	5	7	8	10	11	17	13	12	11	23	49	62	57	61	63	94	38	57	27.5	94.3
20-Dec-06	91	128	149	170	A	118	88	104	124	79	102	62	50	84	101	100	161	184	160	100	104	108	121	54	110.4	183.6
21-Dec-06	42	30	15	A	9	15	22	14	15	11	17	29	10	27	19	24	25	15	16	13	17	5	3	3	17.2	41.9
22-Dec-06	4	6	A	5	7	8	11	13	24	21	17	12	13	12	11	23	40	23	23	30	50	62	49	47	22.2	61.8
23-Dec-06	23	A	20	22	25	24	23	20	23	24	35	49	65	33	46	32	14	9	7	6	10	22	9	6	23.8	65.4
24-Dec-06	A	5	4	3	4	5	10	40	51	61	74	46	28	29	15	15	12	11	13	9	9	11	10	A	21.0	73.7
25-Dec-06	10	14	13	12	13	19	26	18	46	85	49	54	36	22	12	5	13	44	55	42	48	38	A	21	30.2	84.9
26-Dec-06	8	21	25	27	13	8	8	9	11	8	9	10	11	12	9	10	7	7	14	7	11	A	21	38	13.2	38.5
27-Dec-06	58	16	24	34	27	17	25	31	49	66	58	41	42	63	66	33	20	24	44	23	A	38	24	20	36.7	66.4
28-Dec-06	7	4	5	9	9	20	41	59	83	130	113	61	117	103	109	114	124	85	51	A	55	66	64	89	66.0	130.2
29-Dec-06	123	84	67	41	37	62	62	66	96	54	38	18	22	23	28	62	27	48	A	46	14	9	6	7	45.1	122.6
30-Dec-06	5	4	4	5	3	4	10	12	14	29	12	8	7	7	6	6	7	A	10	8	8	7	6	5	8.1	29.0
31-Dec-06	9	15	22	15	15	24	19	17	15	24	45	37	50	58	46	67	A	108	89	122	102	107	168	149	57.7	168.4
Hourly Avg	46.9	42.9	40.9	35.8	25.6	31.8	40.2	49.0	61.0	55.1	60.6	57.4	42.8	44.0	48.1	53.7	64.0	74.9	75.7	72.8	68.7	68.1	61.7	50.3		
Hourly Max	202.0	202.9	170.0	169.6	143.3	117.9	103.4	148.6	185.6	154.3	237.3	290.8	116.6	119.2	170.0	178.9	161.3	228.0	303.4	350.5	336.5	276.9	224.2	209.9		

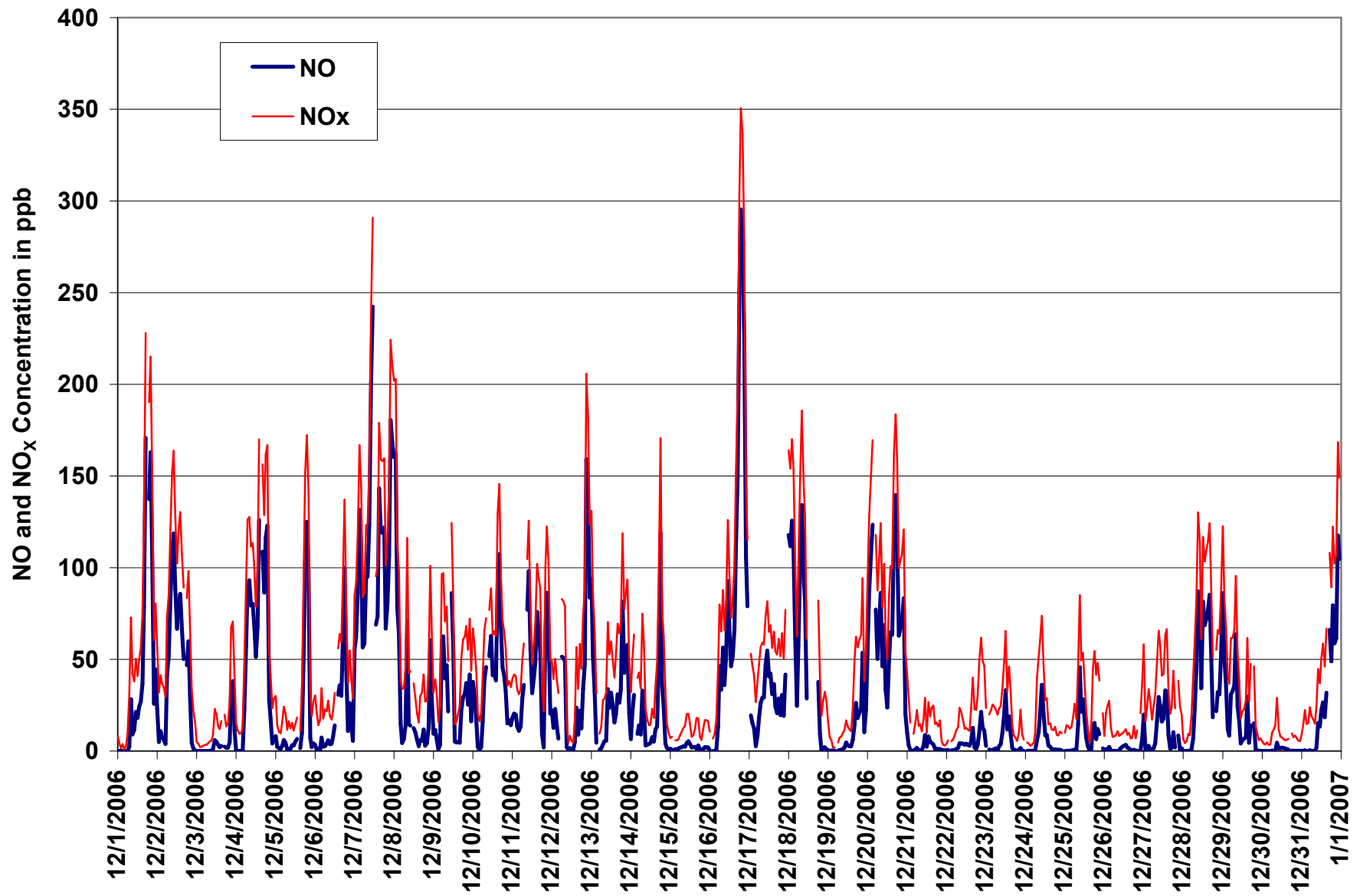


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

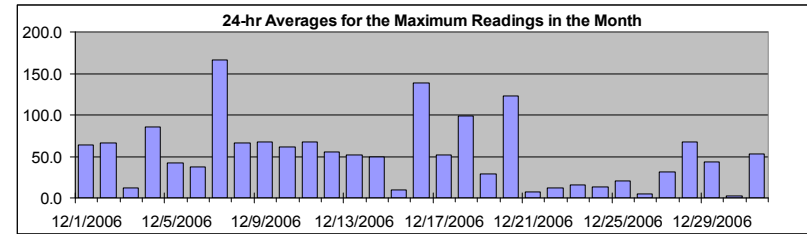
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	362.1	ppb	16-Dec	19:00 20:00
Maximum 24-hr Value:	166.8	ppb	7-Dec	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	255.4	179.9	81.8	27.1	5.1	0.3	0.1	51.8 ppb	27.1 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-Dec-06	8	0	0	0	0	0	1	10	57	18	19	30	24	51	56	79	141	250	A	229	214	162	62	65	64.1	249.8	
2-Dec-06	47	23	20	18	13	9	66	79	118	188	139	121	103	109	101	76	66	A	70	81	59	11	6	2	66.4	188.5	
3-Dec-06	1	0	0	0	0	0	0	0	1	2	5	13	8	9	4	10	A	7	5	10	32	60	81	29	12.0	81.2	
4-Dec-06	3	1	0	0	0	51	103	119	173	129	113	98	90	92	216	A	130	121	201	197	56	34	10	30	85.5	215.5	
5-Dec-06	27	9	3	4	6	9	9	1	2	2	6	6	8	86	A	5	36	105	206	217	185	13	11	13	42.1	216.8	
6-Dec-06	14	7	20	2	25	14	7	10	12	12	7	13	21	A	59	69	63	86	129	69	27	77	91	21	37.1	128.9	
7-Dec-06	116	80	139	145	138	132	118	159	150	195	255	324	A	97	105	231	204	176	169	92	140	199	256	218	166.8	324.0	
8-Dec-06	264	214	113	110	58	14	19	39	147	100	29	A	19	15	12	5	16	33	38	11	28	32	115	91	66.2	264.1	
9-Dec-06	46	41	25	8	19	99	88	120	83	40	A	149	150	8	7	19	16	130	126	108	73	87	85	26	67.5	149.5	
10-Dec-06	64	72	27	14	4	9	53	63	61	A	69	91	54	55	56	136	193	107	70	53	52	42	38	27	61.3	192.6	
11-Dec-06	42	26	42	21	16	34	54	57	A	104	169	90	51	67	83	113	119	84	40	6	89	110	107	34	67.7	169.0	
12-Dec-06	26	20	43	22	13	A	62	87	120	8	1	4	3	2	25	41	24	57	28	55	136	212	180	109	55.6	212.3	
13-Dec-06	133	92	63	24	A	2	3	8	15	11	63	46	53	39	27	36	48	36	57	156	57	78	79	77	52.3	155.7	
14-Dec-06	32	53	51	A	29	52	40	74	96	5	7	5	7	22	18	94	39	107	202	125	52	9	9	9	49.6	202.4	
15-Dec-06	11	9	A	10	7	9	8	9	13	8	32	39	9	4	7	7	3	12	2	1	7	7	6	7	9.8	38.7	
16-Dec-06	2	A	2	1	7	24	126	52	99	63	82	187	96	71	112	157	203	254	330	362	355	317	178	114	138.9	362.1	
17-Dec-06	A	37	27	28	7	15	39	44	61	61	94	86	56	57	87	70	51	32	57	49	65	34	67	A	51.2	94.4	
18-Dec-06	140	140	154	129	102	49	133	156	219	249	146	42	C	C	C	C	C	A	68	37	1	6	5	5	98.9	249.1	
19-Dec-06	4	0	0	0	0	A	1	1	1	2	4	15	5	5	6	26	42	85	41	44	76	153	63	92	29.0	153.5	
20-Dec-06	75	190	145	141	A	116	127	104	172	83	115	87	46	97	113	113	149	237	173	101	122	133	133	50	122.7	236.6	
21-Dec-06	31	11	2	A	2	2	7	1	1	1	6	19	4	23	16	8	8	3	2	2	2	1	1	1	1	6.7	30.7
22-Dec-06	1	1	A	1	1	1	4	5	8	7	5	6	6	5	6	13	47	6	3	14	31	45	41	25	12.2	46.6	
23-Dec-06	22	A	8	4	5	6	5	2	41	24	24	43	44	20	51	25	10	2	1	1	6	4	1	3	15.2	51.1	
24-Dec-06	A	0	0	0	0	0	3	14	24	31	92	56	14	20	8	5	3	2	2	1	2	2	1	A	12.7	91.9	
25-Dec-06	0	1	3	1	2	2	3	5	39	81	41	42	32	24	8	1	3	46	43	16	40	26	A	15	20.6	81.4	
26-Dec-06	0	8	9	16	3	0	2	0	1	1	3	4	4	6	3	4	2	2	6	1	2	A	6	36	5.1	35.9	
27-Dec-06	53	2	5	14	2	2	14	14	46	60	49	43	50	175	59	27	3	6	32	12	A	25	4	11	30.8	174.9	
28-Dec-06	1	1	0	1	1	6	24	57	82	147	130	118	135	100	109	103	108	104	42	A	49	89	55	89	67.3	146.6	
29-Dec-06	118	74	44	32	23	62	65	69	127	67	55	18	25	16	26	78	16	30	A	33	5	1	1	1	42.9	127.1	
30-Dec-06	0	0	0	0	0	0	8	0	1	21	5	3	3	2	2	2	1	A	1	1	1	1	0	0	2.2	20.9	
31-Dec-06	1	0	3	0	0	7	1	1	0	6	99	23	43	34	38	54	A	99	88	122	123	117	236	136	53.5	236.3	
Hourly Avg	44.2	38.3	32.8	25.8	16.7	25.2	38.5	43.8	65.6	57.5	62.2	60.7	40.1	45.3	48.8	55.4	62.2	79.2	77.0	73.5	69.5	69.6	64.3	46.0			
Hourly Max	264.1	214.1	154.2	145.2	138.1	132.0	133.0	159.2	218.9	249.1	255.4	324.0	149.5	174.9	215.5	230.5	203.5	253.7	329.9	362.1	355.3	316.6	255.8	218.2			

Station: Henry Pirker
 Station Owner: PASZA

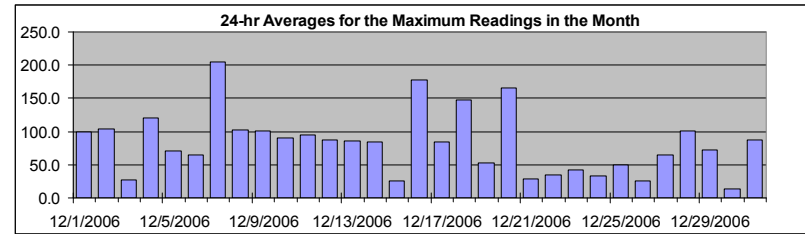
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	422.7	ppb	16-Dec	19:00 20:00
Maximum 24-hr Value:	205.4	ppb	7-Dec	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	314.0	226.2	118.2	59.5	24.8	8.9	4.3	81.7 ppb	59.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Dec-06	42	8	4	11	2	8	25	49	105	54	54	65	52	87	95	124	194	316	A	291	271	211	104	104	99.0	316.2
2-Dec-06	81	54	53	49	44	39	100	116	164	246	189	164	143	154	146	120	106	A	110	122	99	45	36	20	104.3	245.7
3-Dec-06	9	5	3	3	4	5	5	8	9	11	20	39	27	27	17	28	A	28	20	28	64	98	118	58	27.6	118.0
4-Dec-06	25	22	12	12	16	86	142	157	218	165	150	137	125	129	271	A	181	165	258	251	88	61	34	57	120.0	271.3
5-Dec-06	55	29	17	21	24	30	30	16	21	16	22	19	20	179	A	20	78	152	259	270	233	42	34	47	71.1	269.6
6-Dec-06	48	26	41	22	60	46	30	34	36	30	22	30	42	A	89	101	94	122	165	102	58	110	124	46	64.2	165.4
7-Dec-06	151	112	175	182	173	165	153	191	183	232	299	385	A	129	132	277	247	218	210	126	172	249	301	264	205.4	385.3
8-Dec-06	315	258	149	160	93	51	57	79	202	139	67	A	49	36	32	21	49	67	75	45	57	71	156	132	102.6	314.7
9-Dec-06	81	71	57	34	50	139	122	164	120	75	A	205	196	19	20	41	44	172	164	149	109	122	121	54	101.3	205.5
10-Dec-06	104	102	55	40	25	33	82	91	89	A	98	121	78	79	81	179	237	140	99	77	64	61	49	89.7	236.7	
11-Dec-06	66	49	67	44	37	57	75	81	A	135	203	114	70	89	107	143	150	120	73	25	127	147	141	64	94.9	202.8
12-Dec-06	54	47	73	50	38	A	96	120	162	32	7	15	13	8	57	79	59	99	67	99	185	265	225	150	86.9	264.8
13-Dec-06	172	128	102	59	A	12	20	40	47	41	105	81	86	68	56	75	88	76	95	196	91	116	116	112	86.2	196.1
14-Dec-06	62	88	86	A	66	97	84	120	149	30	30	19	21	50	44	135	84	159	262	156	94	47	26	21	83.8	261.8
15-Dec-06	22	20	A	19	14	17	18	19	28	24	57	67	25	14	18	20	29	43	13	9	30	29	29	30	25.9	66.7
16-Dec-06	17	A	23	21	35	59	161	85	129	96	118	228	132	101	154	201	245	301	382	423	416	383	223	154	177.7	422.7
17-Dec-06	A	75	60	62	37	46	68	75	93	96	127	116	83	87	121	103	84	66	90	86	101	67	105	A	84.1	127.2
18-Dec-06	189	186	202	176	143	89	209	226	273	335	201	82	C	C	C	C	C	A	114	82	27	41	42	41	147.6	334.8
19-Dec-06	35	14	11	3	3	A	7	10	10	14	17	39	18	19	19	67	87	131	84	86	121	195	104	111	52.4	194.8
20-Dec-06	115	240	195	191	A	159	181	143	220	118	152	125	78	139	153	157	195	286	220	141	165	172	173	85	165.3	286.3
21-Dec-06	65	47	27	A	13	24	41	21	19	14	27	49	13	56	41	38	36	28	25	22	25	12	5	5	28.4	64.7
22-Dec-06	7	9	A	7	9	13	18	19	32	27	23	18	18	17	20	48	89	36	34	50	72	86	82	65	34.8	88.6
23-Dec-06	53	A	36	30	35	36	33	25	88	59	56	78	79	47	85	55	39	13	10	11	37	34	17	14	42.2	88.3
24-Dec-06	A	8	5	4	5	6	25	56	68	74	144	98	40	49	24	25	19	14	27	13	12	14	13	A	33.7	144.0
25-Dec-06	17	23	25	16	19	27	32	28	70	134	72	72	56	50	24	9	28	90	86	56	83	65	A	55	49.5	133.5
26-Dec-06	11	45	47	54	32	10	17	11	16	11	14	15	14	19	12	18	13	12	37	16	25	A	41	86	25.0	85.9
27-Dec-06	98	24	39	51	38	22	48	48	87	100	89	77	85	206	97	63	27	41	71	47	A	65	32	51	65.4	205.9
28-Dec-06	9	9	8	12	14	42	60	103	117	199	176	160	179	137	155	145	150	141	75	A	86	129	91	129	101.2	199.1
29-Dec-06	160	110	75	64	54	93	97	102	165	101	88	41	50	38	59	117	47	66	A	71	32	20	9	13	72.6	164.7
30-Dec-06	7	6	5	6	4	6	24	16	18	62	29	10	11	9	8	9	A	13	11	12	9	10	10	10	13.2	61.8
31-Dec-06	14	24	32	19	21	38	30	22	18	34	149	54	79	70	73	94	A	143	133	165	170	171	278	181	87.5	278.3
Hourly Avg	71.9	63.4	58.0	49.1	38.1	50.2	67.4	73.4	98.6	90.0	93.5	90.7	64.8	72.8	76.2	86.7	96.7	115.9	112.8	107.5	104.6	104.7	95.1	76.2		
Hourly Max	314.7	258.3	202.3	191.1	172.6	164.9	208.6	226.4	273.2	334.8	298.5	385.3	195.8	205.9	271.3	277.0	247.2	316.2	381.5	422.7	416.2	383.2	301.4	264.0		

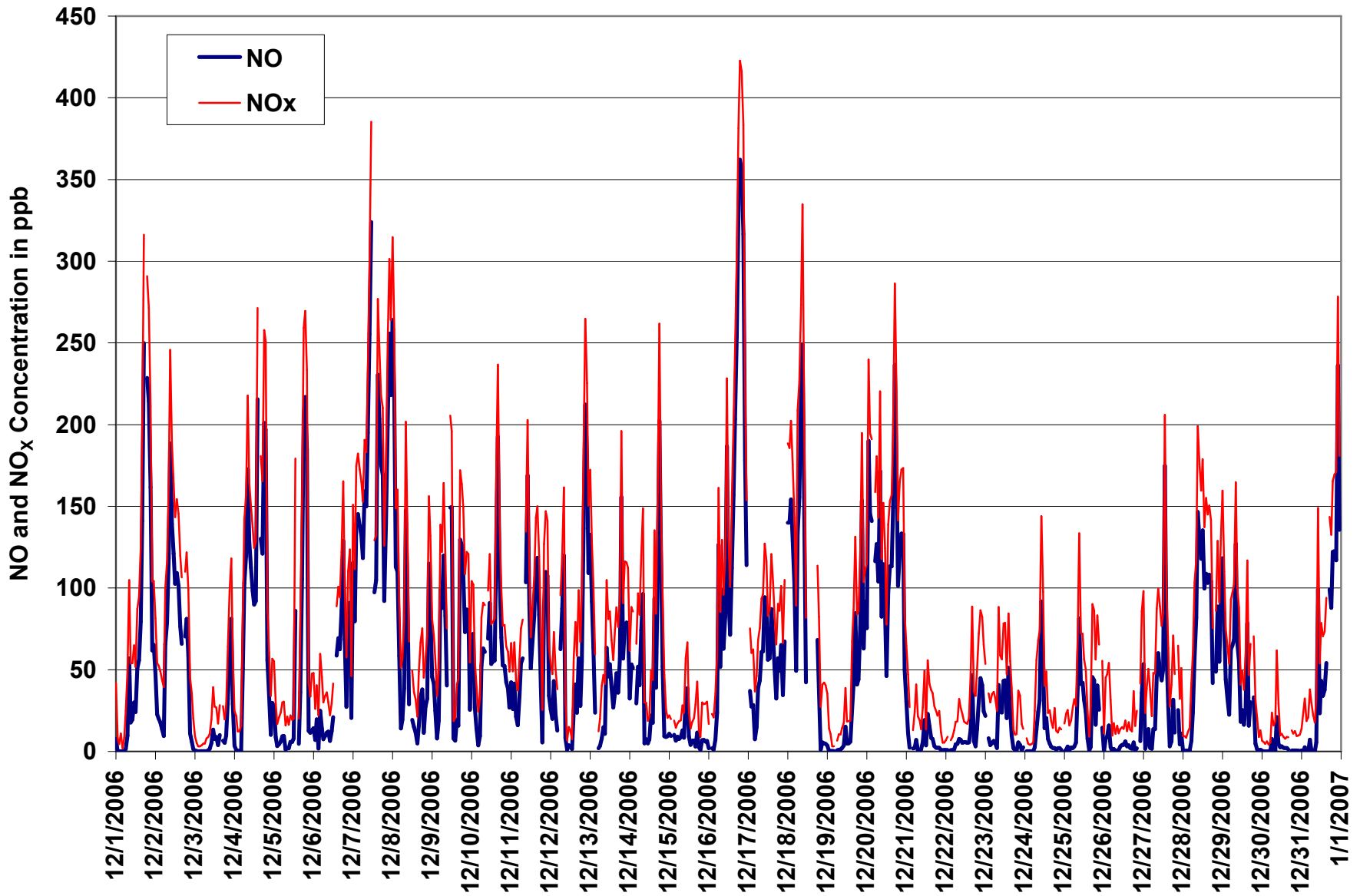


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

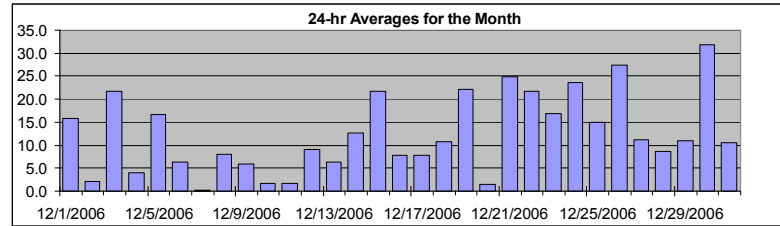
Monitoring Dates: December 1, 2006 to January 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	37.7 ppb	19-Dec	4:00	5:00
Maximum 24-hr Average:	31.9 ppb	30-Dec		

AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	35.7	33.4	22.3	8.9	1.1	0.0	0.0	12.5 ppb	8.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							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-Dec-06	31	34	37	35	38	36	29	14	1	11	18	17	20	17	15	8	2	1	A	1	1	0	1	0	15.9	37.6
2-Dec-06	0	4	0	0	1	3	0	0	0	1	2	3	4	3	2	1	0	A	0	0	0	2	9	13	2.2	13.3
3-Dec-06	25	26	32	34	32	30	30	29	29	30	27	20	20	25	26	21	A	15	19	17	8	0	0	2	21.7	34.0
4-Dec-06	13	16	17	16	13	4	0	0	0	0	1	2	3	2	1	A	0	0	0	0	0	0	3	2	4.1	16.6
5-Dec-06	2	17	22	24	22	18	21	25	22	26	26	30	29	28	A	29	15	0	0	0	0	4	14	9	16.6	29.8
6-Dec-06	5	11	16	13	4	13	9	10	6	11	14	13	10	A	5	3	1	0	0	0	0	0	1	1	6.4	16.4
7-Dec-06	0	0	0	0	0	0	0	0	0	0	0	1	A	3	1	0	0	0	0	0	0	0	0	0	0.2	2.7
8-Dec-06	0	0	0	0	11	6	7	6	0	9	9	A	16	19	22	22	11	10	6	12	14	4	0	0	8.1	22.2
9-Dec-06	9	3	4	13	8	0	0	2	1	3	A	5	14	21	20	16	11	4	1	1	0	0	0	0	6.0	21.2
10-Dec-06	0	0	0	5	6	5	1	0	0	A	2	3	6	6	4	2	0	0	0	0	0	0	0	0	1.8	6.4
11-Dec-06	0	0	0	0	0	0	0	0	A	0	1	2	5	4	3	1	0	0	6	14	1	0	0	0	1.6	14.2
12-Dec-06	0	0	0	1	1	A	1	1	6	18	31	29	30	35	27	7	11	3	5	1	1	1	0	0	9.1	35.0
13-Dec-06	1	0	0	4	A	26	24	12	12	9	3	8	10	13	12	6	1	0	0	0	0	0	0	2	6.3	26.1
14-Dec-06	3	1	1	A	6	10	14	2	8	20	26	29	29	25	27	17	8	0	0	0	0	2	10	23	12.6	29.3
15-Dec-06	32	29	A	33	31	27	24	21	18	17	15	16	19	25	25	21	15	13	24	25	20	16	16	17	21.6	33.3
16-Dec-06	21	A	25	22	15	2	1	1	1	3	6	7	9	11	10	6	4	4	5	5	6	6	5	5	7.8	24.6
17-Dec-06	A	5	5	7	9	5	6	6	6	8	11	12	15	15	14	10	7	5	5	5	5	5	A	7.8	15.0	
18-Dec-06	6	6	6	5	5	5	5	6	6	9	15	19	20	27	20	C	C	C	C	A	16	10	15	10.8	27.0	
19-Dec-06	23	33	34	37	38	A	37	34	33	32	31	29	31	32	32	24	7	7	3	0	1	0	9	2	22.1	37.7
20-Dec-06	0	0	0	0	A	0	1	0	0	1	2	7	9	5	4	2	0	0	0	0	0	0	0	1	1.5	9.3
21-Dec-06	1	8	20	A	30	24	20	27	26	29	26	23	34	24	28	22	20	26	25	26	23	34	36	36	24.8	35.9
22-Dec-06	35	33	A	35	33	30	28	27	20	22	26	30	30	31	31	22	13	18	18	13	1	0	2	3	21.8	34.7
23-Dec-06	15	A	17	12	9	8	9	13	13	12	10	8	6	13	8	15	25	29	30	31	27	16	28	30	16.8	31.2
24-Dec-06	A	33	33	34	34	34	28	6	1	3	7	16	21	20	27	25	27	27	25	29	31	28	29	A	23.6	34.5
25-Dec-06	25	20	20	19	18	12	6	11	1	2	7	10	16	24	30	36	29	12	3	8	5	10	A	20	15.0	36.1
26-Dec-06	30	19	14	14	26	30	30	30	28	31	32	33	33	32	33	32	34	33	27	33	28	A	20	10	27.4	34.0
27-Dec-06	3	23	13	5	10	19	12	9	4	1	6	13	13	9	8	15	19	15	4	16	A	8	13	18	11.2	22.5
28-Dec-06	28	30	30	26	26	17	3	1	1	1	3	10	5	6	6	3	1	1	1	A	1	1	1	1	8.7	29.9
29-Dec-06	2	2	0	0	0	0	0	0	2	5	13	22	20	21	16	4	11	1	A	3	27	33	35	34	11.0	34.7
30-Dec-06	35	35	36	34	36	35	29	28	26	16	30	33	34	35	35	34	33	A	30	32	31	32	33	33	31.9	35.5
31-Dec-06	29	22	14	21	22	13	17	17	20	12	8	12	10	8	11	4	A	0	0	1	1	0	1	0	10.5	29.1
Hourly Avg	12.9	14.1	13.7	15.6	16.7	14.3	12.6	10.9	9.7	11.3	13.4	15.3	17.3	17.7	17.0	14.3	11.0	8.1	8.6	9.5	8.1	7.6	9.7	9.7		
Hourly Max	34.7	35.3	37.0	36.9	37.7	35.6	37.1	34.2	33.1	31.9	32.1	33.4	34.2	35.0	34.6	36.1	34.0	33.1	30.2	32.8	30.7	34.3	35.7	35.9		

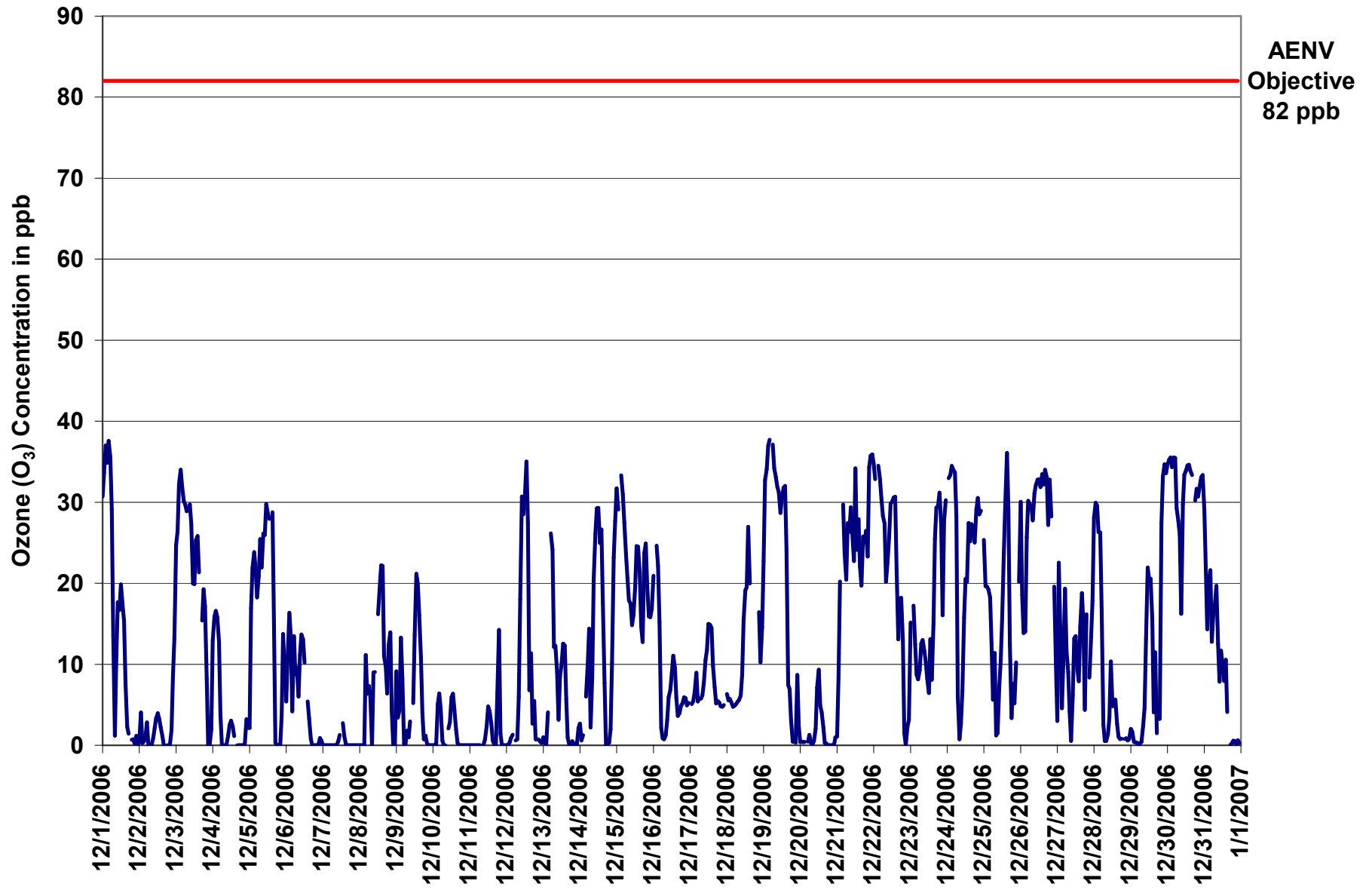


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

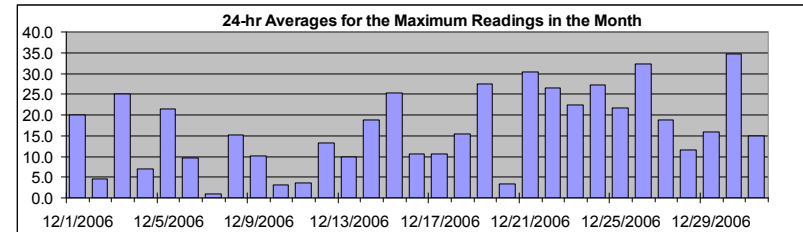
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	39.8	ppb	29-Dec	20:00 21:00
Maximum 24-hr Value:	34.6	ppb	30-Dec	



AIC Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.3	36.1	28.3	15.8	4.1	0.5	0.0	16.5 ppb	15.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Dec-06	37	38	38	38	38	38	35	19	4	18	22	20	24	25	30	14	7	3	A	2	2	1	6	1	20.1	38.4	
2-Dec-06	6	9	3	2	7	9	1	0	1	2	4	4	5	4	3	3	1	A	1	0	0	6	14	21	4.5	20.7	
3-Dec-06	26	28	35	35	34	32	31	31	31	32	29	29	27	28	29	26	A	21	22	21	15	1	4	9	25.0	35.1	
4-Dec-06	17	20	19	19	16	14	0	1	1	2	2	4	5	3	2	A	4	D	0	0	D	5	6	8	7.0	19.7	
5-Dec-06	14	24	25	26	26	21	26	29	25	29	28	32	32	31	A	34	28	6	2	1	6	7	19	19	21.3	33.8	
6-Dec-06	12	17	20	16	11	19	13	15	9	15	15	17	12	A	7	7	4	1	0	0	3	1	3	3	9.5	19.7	
7-Dec-06	0	0	0	1	0	0	0	0	2	1	1	2	A	4	2	1	0	0	0	0	0	1	1	1	0.9	3.9	
8-Dec-06	8	0	0	0	28	16	21	18	0	18	18	A	21	23	27	26	24	18	18	25	21	16	1	2	15.2	28.1	
9-Dec-06	20	12	16	18	14	3	1	5	2	6	A	10	24	24	22	19	15	8	3	5	2	1	1	1	10.0	23.8	
10-Dec-06	1	2	1	9	8	8	3	0	1	A	4	5	7	8	8	4	1	1	1	0	0	1	1	0	3.2	9.4	
11-Dec-06	1	3	1	0	0	0	0	0	A	1	2	4	6	7	5	2	1	1	14	17	18	1	1	0	3.7	18.1	
12-Dec-06	0	1	1	5	5	A	1	2	16	28	32	32	34	36	36	12	22	7	15	9	4	2	2	3	13.2	36.3	
13-Dec-06	3	1	2	10	A	28	27	21	17	17	6	13	16	17	16	11	5	1	1	2	1	2	1	7	9.8	27.9	
14-Dec-06	5	2	4	A	14	23	27	10	20	27	32	32	31	32	34	30	16	2	1	4	10	21	26	31	18.8	33.9	
15-Dec-06	33	32	A	35	34	29	26	23	20	21	20	21	23	27	27	22	18	27	27	24	21	21	21	23	25.2	34.7	
16-Dec-06	23	A	28	26	23	11	3	2	2	6	8	10	11	13	13	10	5	5	6	6	8	9	6	8	10.5	27.9	
17-Dec-06	A	6	8	11	12	8	10	10	10	12	14	13	17	17	19	14	11	7	8	7	6	6	6	A	10.7	18.7	
18-Dec-06	8	7	7	6	6	7	7	7	7	9	14	21	25	26	33	28	C	C	C	C	A	29	21	26	15.3	33.4	
19-Dec-06	32	36	38	39	39	A	39	37	35	36	34	34	33	34	35	37	18	23	16	2	6	2	18	9	27.5	38.9	
20-Dec-06	1	1	1	1	A	2	7	1	1	1	3	11	13	7	7	5	1	1	1	0	2	2	1	1	4	3.3	13.1
21-Dec-06	8	17	28	A	32	29	34	35	29	32	32	34	36	33	33	31	25	30	30	32	31	36	37	37	30.5	37.1	
22-Dec-06	36	36	A	37	36	34	31	32	24	25	28	32	32	33	33	31	26	28	26	24	4	1	9	10	26.5	36.8	
23-Dec-06	22	A	23	19	18	13	15	16	19	19	15	15	11	16	11	21	32	32	31	34	35	30	33	33	22.4	34.6	
24-Dec-06	A	35	35	36	35	35	34	19	5	7	10	24	26	29	30	29	30	30	29	31	32	31	32	A	27.3	35.5	
25-Dec-06	29	25	26	23	22	21	10	16	7	6	13	19	23	30	37	39	35	32	10	14	15	18	A	30	21.7	38.6	
26-Dec-06	32	29	21	23	32	33	33	33	32	35	34	35	35	34	36	35	36	37	34	37	35	A	31	21	32.3	37.4	
27-Dec-06	20	31	21	11	19	24	17	17	12	4	15	18	18	13	12	21	25	24	20	23	A	21	19	27	18.8	31.4	
28-Dec-06	30	32	32	28	29	28	5	2	2	3	8	18	7	7	10	6	3	2	3	A	2	2	2	2	11.5	32.4	
29-Dec-06	6	8	2	1	2	1	1	2	15	13	21	26	25	24	24	10	18	4	A	11	40	38	36	36	15.8	39.8	
30-Dec-06	36	37	37	36	37	37	34	31	30	26	34	35	37	36	36	35	35	A	33	34	34	34	36	36	34.6	37.1	
31-Dec-06	34	29	21	25	26	17	23	20	24	16	15	19	17	11	18	6	3	A	2	2	2	2	1	7	5	14.8	34.0
Hourly Avg	17.3	17.9	17.0	18.5	20.8	18.5	16.6	14.6	13.5	15.6	17.2	19.7	21.1	21.1	21.1	19.1	16.1	12.7	12.7	12.7	12.8	11.4	13.4	14.3			
Hourly Max	37.1	38.3	38.3	38.8	38.9	37.6	38.9	36.9	35.1	35.6	34.4	34.9	36.9	36.3	36.8	38.6	35.7	37.4	33.9	36.6	39.8	38.0	37.1	36.9			

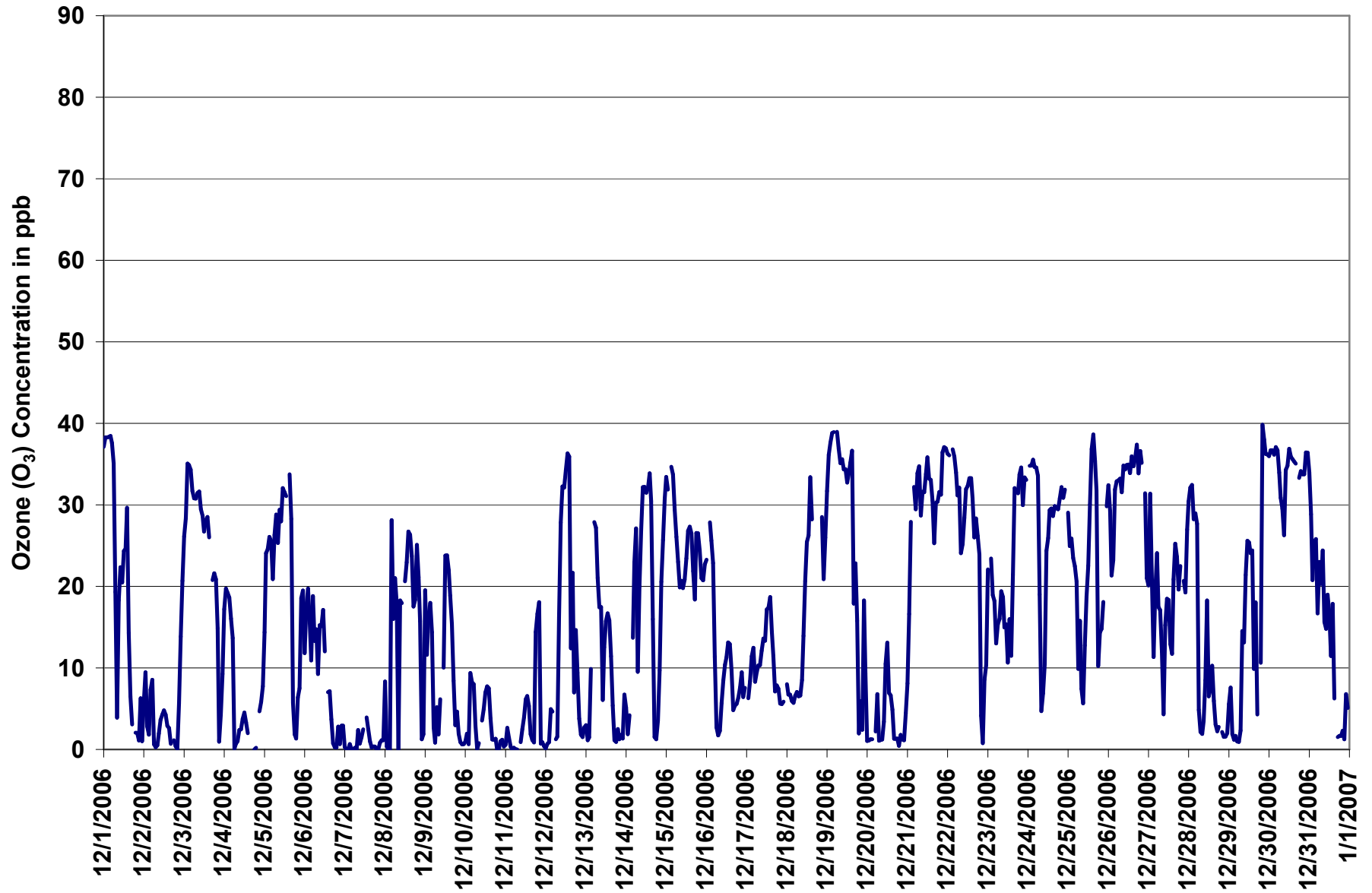
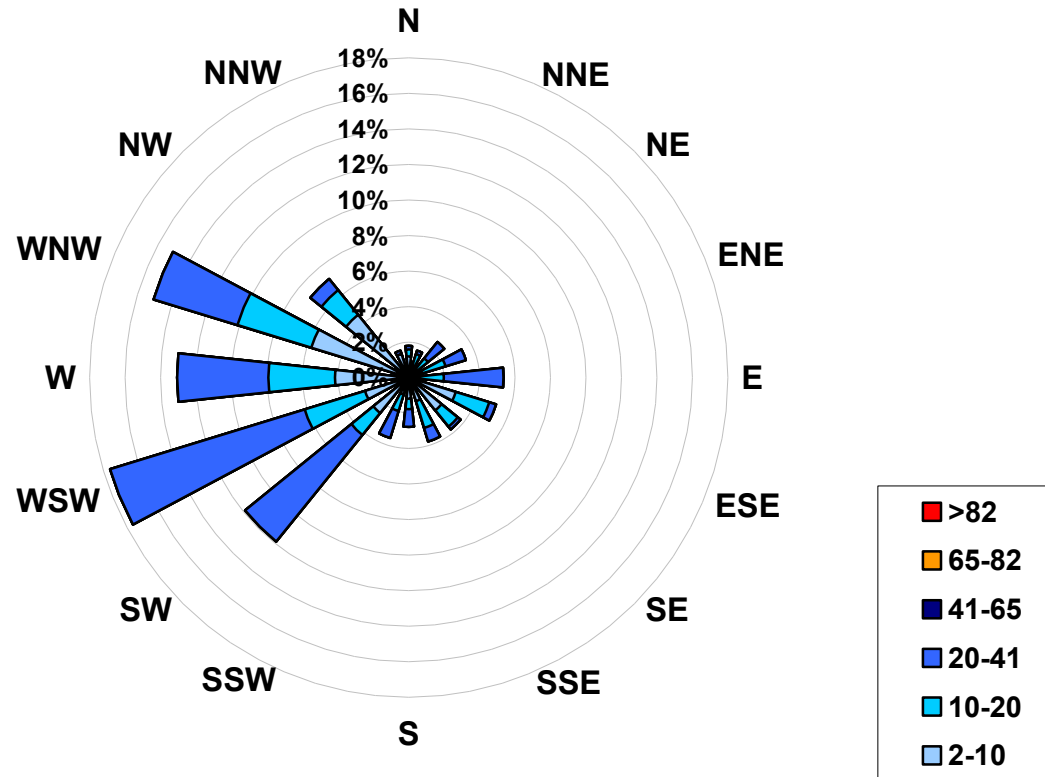


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	369	
10	to 20	134	
20	to 41	204	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			707

PASZA - Henry Pirker – Ozone Eight Hour Average Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

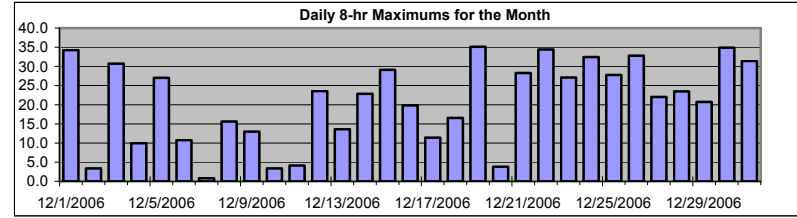
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	35.1 ppb 19-Dec 8:00 9:00



Percentile	99	95	75	50	25	5	1
	34.1	31.8	20.9	10.1	3.2	0.3	0.0

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																								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-Dec-06	32	32	33	33	34	34	34	32	28	25	23	20	18	16	14	13	13	12	12	9	6	4	2	1	34.2
2-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	2	3	3.4
3-Dec-06	7	9	13	18	22	25	28	30	30	31	30	28	27	26	26	25	24	22	21	21	19	15	12	9	30.7
4-Dec-06	9	9	9	9	9	10	10	10	8	6	4	3	1	1	1	1	1	1	1	0	0	0	0	1	10.0
5-Dec-06	1	3	6	9	11	14	16	19	21	23	23	24	25	26	27	27	26	22	19	14	10	7	8	5	27.0
6-Dec-06	4	5	7	9	10	11	10	10	10	10	10	10	11	10	10	9	8	7	5	3	1	1	1	0	10.8
7-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0.8
8-Dec-06	0	0	0	0	1	2	3	4	4	5	6	7	8	10	12	14	16	16	15	15	15	13	10	7	15.6
9-Dec-06	7	6	6	6	5	5	5	5	4	4	4	3	4	7	9	11	13	13	11	11	9	7	4	2	13.0
10-Dec-06	1	0	0	1	1	2	2	2	2	2	3	2	2	3	3	3	3	3	3	2	2	1	0	0	3.4
11-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	3	4	4	3	3	3	4.1
12-Dec-06	3	3	2	0	0	0	0	1	1	4	8	12	16	19	22	23	24	22	18	15	11	7	4	3	23.5
13-Dec-06	2	1	1	1	1	5	8	10	11	13	13	14	13	11	10	9	8	7	6	5	4	2	1	0	13.6
14-Dec-06	1	1	1	1	2	3	5	5	6	9	13	15	18	19	21	23	23	20	17	13	10	8	8	9	22.8
15-Dec-06	12	16	18	22	27	29	29	28	26	24	23	21	20	19	19	20	19	19	20	21	21	20	19	18	29.1
16-Dec-06	19	20	20	19	19	17	15	12	10	9	6	5	4	5	6	7	7	7	7	7	6	6	5	5	19.8
17-Dec-06	5	5	5	6	6	6	6	6	6	6	7	8	9	10	11	11	11	11	10	10	8	7	6	5	11.4
18-Dec-06	5	5	5	5	5	5	5	5	5	5	6	7	9	11	13	15	17	N	N	N	N	N	N	N	16.5
19-Dec-06	N	N	N	24	26	27	31	34	35	35	35	33	32	32	32	30	27	24	21	17	13	9	6	4	35.1
20-Dec-06	3	2	2	2	2	2	1	1	0	0	1	2	3	3	4	4	4	4	4	3	1	1	0	0	3.8
21-Dec-06	0	1	4	4	9	12	15	19	22	25	26	26	26	26	27	27	26	25	25	26	24	26	27	28	28.3
22-Dec-06	30	31	32	33	34	34	33	32	29	28	28	27	27	27	27	26	26	25	24	22	18	15	11	9	34.4
23-Dec-06	9	8	7	7	8	10	11	12	12	12	11	10	10	11	10	11	12	14	17	20	22	23	25	27	27.1
24-Dec-06	27	28	28	29	30	32	32	29	25	22	18	16	14	13	12	15	18	21	24	25	26	27	28	28	32.4
25-Dec-06	28	27	26	25	23	20	17	16	13	11	10	9	8	10	13	16	19	21	20	20	18	17	15	13	27.8
26-Dec-06	13	14	15	16	19	22	23	24	24	25	28	30	31	31	31	32	33	33	32	32	32	32	30	26	32.8
27-Dec-06	22	20	19	14	12	13	12	12	12	9	8	9	10	8	8	9	11	12	12	12	12	12	13	13	22.0
28-Dec-06	15	17	20	22	22	23	22	20	17	13	10	8	5	4	4	4	4	4	4	3	2	2	1	1	23.5
29-Dec-06	1	1	1	1	1	1	1	1	1	1	3	5	8	10	12	13	14	14	14	11	12	14	17	21	20.7
30-Dec-06	24	29	30	34	35	35	34	33	32	30	29	29	29	29	30	30	31	33	33	33	33	32	32	32	34.9
31-Dec-06	31	30	28	27	26	23	21	19	18	17	16	15	14	13	12	11	9	7	6	5	3	2	1	0	31.4

Hourly Max 31.7 32.0 32.7 33.6 34.6 34.9 34.2 33.6 35.1 35.0 34.6 33.4 32.4 32.3 31.7 31.8 32.5 33.3 33.4 33.2 32.7 32.3 32.1 32.1

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

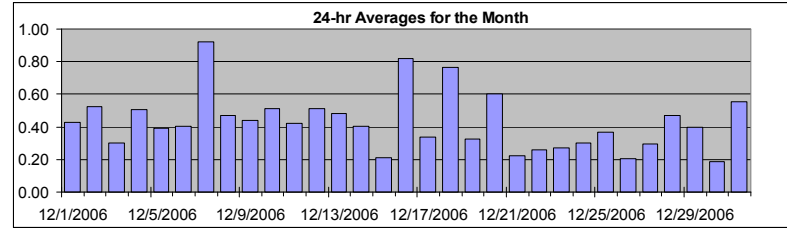
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Number of 1-hr Exceedances:		0	
Maximum 1-hr Average:	2.4 ppm	16-Dec	20:00 21:00
Maximum 24-hr Value:	0.9 ppm	7-Dec	



AIC Time:	34 hrs	Operational Time:	708 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	1.7	1.0	0.5
	0.3	0.2	0.2
	0.2	0.2	0.1
	0.4	ppm	0.3
	ppm	Average	Median

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			24:00	
1-Dec-06	0:00	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	1.0	1.5	A	0.8	1.0	0.7	0.4	0.5	0.43	1.53	
2-Dec-06	1:00	0.5	0.3	0.4	0.3	0.3	0.3	0.5	0.4	0.7	0.8	0.8	0.7	0.5	0.7	0.8	0.6	0.6	A	0.6	0.6	0.5	0.4	0.3	0.2	0.52	0.84	
3-Dec-06	2:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.4	A	0.3	0.3	0.3	0.5	0.7	0.6	0.4	0.30	0.65	
4-Dec-06	3:00	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.9	0.7	0.6	0.6	0.5	0.6	0.8	A	0.9	0.7	0.8	0.8	0.4	0.4	0.3	0.3	0.51	0.86	
5-Dec-06	4:00	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.9	1.1	1.2	0.9	0.4	0.3	0.3	0.39	1.21	
6-Dec-06	5:00	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.4	0.5	0.3	0.3	0.4	0.4	A	0.4	0.5	0.5	0.8	0.9	0.5	0.4	0.4	0.4	0.3	0.40	0.95	
7-Dec-06	6:00	0.7	0.6	0.6	0.8	0.7	0.5	0.6	0.8	0.9	0.9	1.7	1.7	A	0.7	0.9	1.2	0.8	0.9	1.0	0.6	0.7	1.0	1.5	1.4	0.92	1.74	
8-Dec-06	7:00	1.2	1.1	0.6	0.5	0.3	0.2	0.3	0.4	0.8	0.4	0.3	A	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.8	0.5	0.47	1.16	
9-Dec-06	8:00	0.3	0.4	0.3	0.2	0.2	0.5	0.5	0.4	0.4	0.4	A	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.4	0.4	0.44	0.78	
10-Dec-06	9:00	0.6	0.5	0.4	0.3	0.2	0.3	0.3	0.5	0.6	A	0.6	0.6	0.5	0.5	0.8	1.0	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.51	0.95	
11-Dec-06	10:00	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.5	A	0.6	0.7	0.5	0.3	0.2	C	C	A	0.5	0.4	0.2	0.6	0.7	0.6	0.3	0.42	0.72	
12-Dec-06	11:00	0.3	0.2	0.3	0.3	0.3	A	0.4	0.6	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.6	0.8	1.9	1.7	1.6	0.51	1.86
13-Dec-06	12:00	1.3	0.6	0.4	0.3	A	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.3	0.48	1.26	
14-Dec-06	13:00	0.3	0.4	0.4	A	0.2	0.5	0.3	0.9	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.7	1.3	0.7	0.5	0.3	0.2	0.41	1.27	
15-Dec-06	14:00	0.2	0.2	A	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	0.3	0.2	0.2	0.2	0.2	0.2	0.21	0.28	
16-Dec-06	15:00	0.2	A	0.2	0.2	0.2	0.3	0.6	0.3	0.4	0.3	0.5	0.8	0.5	0.5	0.6	0.5	1.2	1.4	2.1	2.2	2.4	1.7	1.0	0.8	0.82	2.38	
17-Dec-06	16:00	A	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.5	0.4	0.4	0.3	0.5	A	0.34	0.48	
18-Dec-06	17:00	1.0	1.0	1.0	0.9	0.6	0.5	1.0	1.6	2.0	1.4	1.0	0.6	0.5	0.3	0.2	0.3	A	0.8	0.8	0.6	0.4	0.4	0.4	0.5	0.76	2.02	
19-Dec-06	18:00	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.8	0.4	0.5	0.32	0.84	
20-Dec-06	19:00	0.8	0.7	0.8	0.8	A	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.3	0.5	0.5	0.8	1.0	0.7	0.4	0.5	0.6	0.7	0.4	0.60	1.01		
21-Dec-06	20:00	0.3	0.3	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.23	0.31	
22-Dec-06	21:00	0.2	0.2	A	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	0.3	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.26	0.50	
23-Dec-06	22:00	0.3	A	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.27	0.45	
24-Dec-06	23:00	A	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	1.0	0.5	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.30	1.03	
25-Dec-06	0:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.2	0.3	0.5	0.7	0.5	0.6	0.6	A	0.3	0.37	0.68	
26-Dec-06	1:00	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.4	0.20	0.41
27-Dec-06	2:00	0.5	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.3	A	0.3	0.3	0.2	0.30	0.54
28-Dec-06	3:00	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.6	0.6	1.5	0.8	0.4	0.5	0.5	0.6	0.5	0.7	0.5	0.4	A	0.5	0.5	0.4	0.6	0.47	1.55	
29-Dec-06	4:00	0.8	0.6	0.5	0.3	0.3	0.7	0.4	0.5	0.8	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	A	0.3	0.2	0.2	0.2	0.2	0.40	0.80	
30-Dec-06	5:00	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.19	0.40	
31-Dec-06	6:00	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.4	0.6	A	0.9	0.7	1.0	1.0	0.9	1.8	1.3	0.56	1.81
Hourly Avg		0.41	0.36	0.33	0.30	0.24	0.28	0.33	0.43	0.49	0.44	0.47	0.44	0.35	0.35	0.37	0.40	0.48	0.59	0.60	0.54	0.55	0.55	0.53	0.47			
Hourly Max		1.26	1.08	0.99	0.88	0.68	0.67	0.96	1.58	2.02	1.55	1.69	1.74	0.70	0.73	0.88	1.22	1.19	1.53	2.11	2.17	2.38	1.86	1.81	1.65			

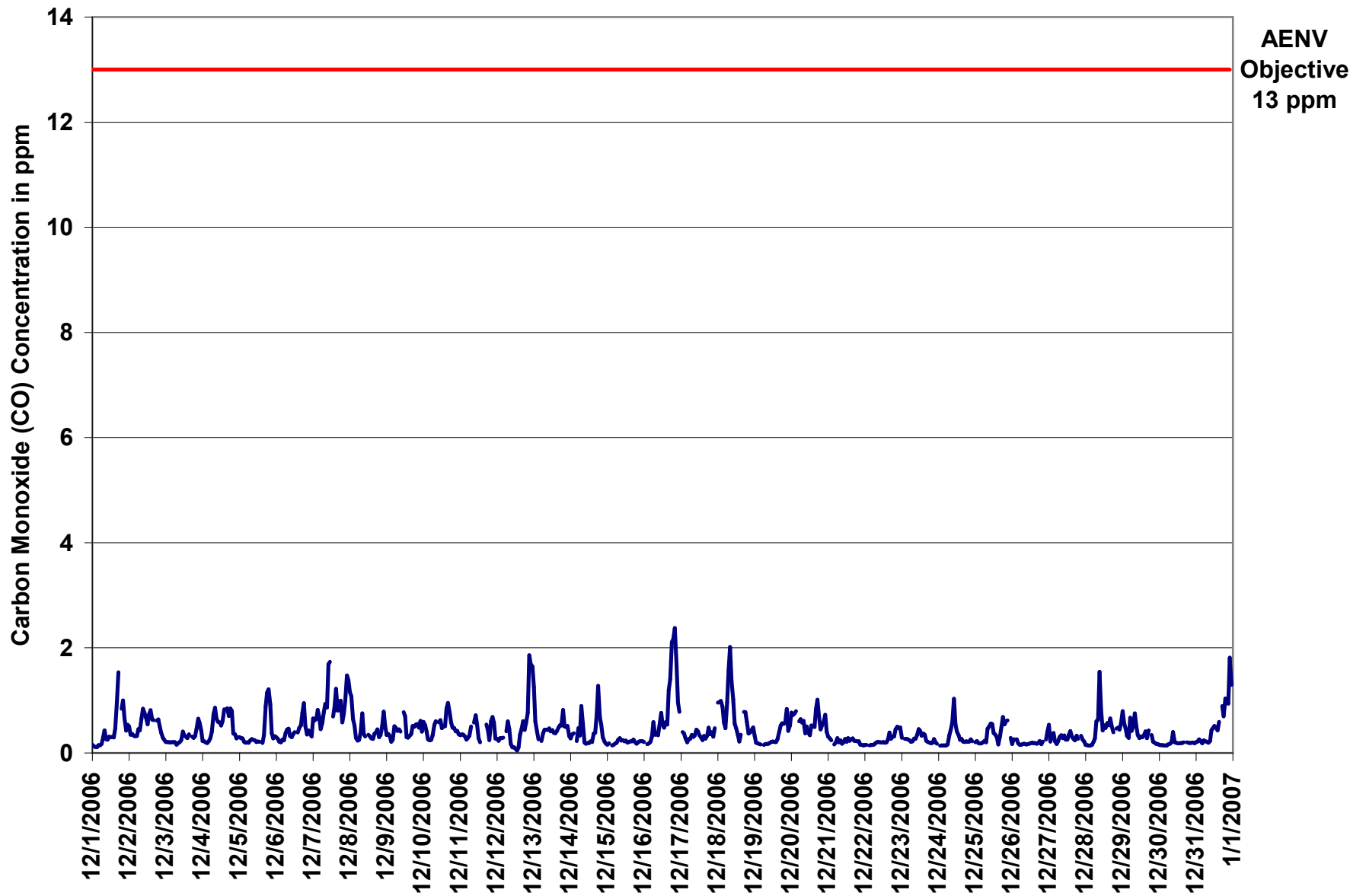


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

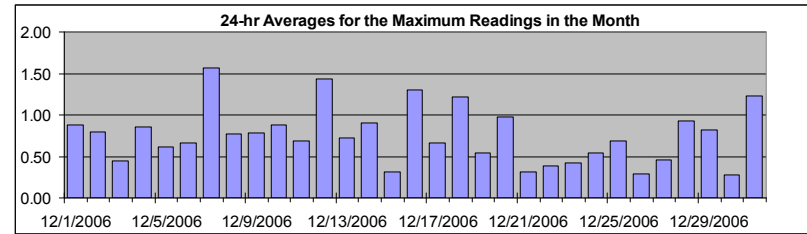
Carbon Monoxide (CO)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	16.9	ppm	12-Dec	23:00 0:00
Maximum 24-hr Value:	1.6	ppm	7-Dec	

AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	2.1	0.9	0.5	0.3	0.2	0.1	0.8 ppm	0.5 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								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-Dec-06	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.4	0.3	0.4	0.4	0.4	0.5	3.2	2.6	3.3	A	1.5	1.5	1.1	1.2	1.0	0.88	3.34	
2-Dec-06	1.1	0.5	0.4	0.4	0.5	0.5	1.0	0.7	1.8	1.5	0.9	1.0	0.9	1.0	0.9	0.7	0.7	A	0.9	0.8	0.7	0.5	0.5	0.4	0.79	1.76	
3-Dec-06	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.6	0.4	0.5	0.4	0.6	A	0.4	0.3	0.4	0.8	1.1	1.1	0.7	0.45	1.14	
4-Dec-06	0.3	0.3	0.2	0.2	0.2	0.4	0.5	2.0	2.1	2.4	0.9	0.8	0.7	0.8	1.2	A	1.1	1.0	1.3	1.2	0.6	0.5	0.4	0.6	0.85	2.42	
5-Dec-06	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.7	1.4	1.8	2.1	1.9	0.9	0.4	0.5	0.61	2.12	
6-Dec-06	0.5	0.5	0.3	0.2	0.3	0.4	0.9	0.8	0.8	0.5	0.5	1.0	0.5	A	0.7	0.7	0.8	1.1	1.2	0.8	0.5	0.9	0.9	0.6	0.66	1.19	
7-Dec-06	0.9	0.9	0.8	0.9	0.9	0.9	1.0	1.2	2.9	1.4	3.0	2.3	A	1.0	1.8	3.5	1.7	1.5	2.1	0.8	1.0	1.9	2.0	1.9	1.57	3.49	
8-Dec-06	1.8	1.3	0.8	0.7	0.5	0.3	0.6	1.5	1.2	0.9	0.5	A	0.4	0.4	0.4	0.3	0.5	0.6	0.8	0.5	0.6	1.0	1.3	1.0	0.77	1.83	
9-Dec-06	0.6	0.8	0.7	0.3	0.5	0.8	0.7	0.7	0.6	0.8	A	1.2	1.4	0.7	0.4	0.5	0.5	1.2	1.2	0.8	0.9	1.2	0.6	0.79	1.36		
10-Dec-06	0.7	0.9	0.5	0.4	0.3	0.3	1.2	0.6	1.4	A	0.8	0.8	0.6	0.8	0.7	1.9	1.7	2.1	1.0	0.6	0.7	1.1	0.8	0.5	0.88	2.07	
11-Dec-06	0.5	0.4	0.5	0.4	0.3	0.4	0.8	1.0	A	1.0	1.7	0.8	0.4	0.5	C	C	A	0.9	1.0	0.3	0.8	0.8	0.8	0.4	0.68	1.71	
12-Dec-06	0.3	0.3	0.4	0.5	0.3	A	0.6	1.2	0.8	0.3	0.1	0.2	0.2	0.1	0.3	0.6	0.6	0.9	0.6	0.7	1.9	3.2	2.2	16.9	1.43	16.91	
13-Dec-06	1.5	0.9	0.5	0.4	A	0.4	0.9	0.6	0.6	0.8	0.8	0.8	0.6	0.5	0.4	0.5	0.6	0.7	1.0	1.6	0.7	0.8	0.7	0.6	0.73	1.58	
14-Dec-06	0.5	0.5	0.5	A	0.7	1.5	0.9	2.3	2.8	0.2	0.2	0.3	0.2	0.3	0.4	0.8	0.6	1.6	1.8	2.0	1.3	0.5	0.3	0.6	0.90	2.83	
15-Dec-06	0.2	0.2	A	0.2	0.2	0.2	0.3	0.4	0.6	0.3	0.5	0.4	0.6	0.2	0.3	0.4	0.3	0.4	0.3	0.2	0.4	0.3	0.3	0.4	0.31	0.61	
16-Dec-06	0.3	A	0.2	0.2	0.4	0.7	1.6	0.9	0.6	0.4	0.8	1.9	0.7	0.6	1.3	0.8	2.1	2.3	2.5	2.6	3.2	2.2	1.5	1.9	1.30	3.24	
17-Dec-06	A	0.9	0.7	0.3	0.3	0.4	0.6	0.7	1.0	0.8	1.1	0.5	0.5	0.4	0.5	1.2	0.5	0.4	1.0	0.6	0.7	0.5	0.9	A	0.66	1.17	
18-Dec-06	1.2	1.2	1.1	1.0	0.8	1.0	2.9	2.7	3.3	3.1	1.6	0.7	0.6	0.5	0.3	0.6	A	1.1	1.2	0.9	0.5	0.5	0.6	0.6	1.22	3.25	
19-Dec-06	0.5	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.6	1.1	1.5	0.8	0.8	1.7	1.0	0.9	0.54	1.72	
20-Dec-06	0.9	0.9	1.0	1.0	A	0.8	1.0	1.1	1.4	0.6	0.8	0.8	0.5	1.1	0.8	1.0	1.1	2.3	1.1	0.7	0.8	1.1	1.1	0.6	0.97	2.31	
21-Dec-06	0.5	0.4	0.5	A	0.2	0.3	0.6	0.3	0.3	0.2	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.31	0.56	
22-Dec-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.7	0.4	0.7	0.4	1.0	0.7	0.7	0.7	0.39	1.04
23-Dec-06	0.8	A	0.4	0.4	0.4	0.5	0.3	0.4	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.42	0.82	
24-Dec-06	A	0.2	0.1	0.1	0.1	0.1	0.2	0.5	0.7	0.9	3.3	1.0	0.7	0.5	0.4	0.6	0.3	0.3	0.3	0.3	0.3	0.5	0.3	A	0.54	3.30	
25-Dec-06	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.3	1.0	0.6	0.9	0.8	0.5	0.7	1.4	0.3	0.7	1.0	1.2	1.2	1.3	1.3	A	0.6	0.68	1.39	
26-Dec-06	0.2	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	A	0.5	0.9	0.29	0.95	
27-Dec-06	0.7	0.3	0.8	0.6	0.3	0.2	0.5	0.6	0.6	0.4	0.5	0.3	0.4	0.5	0.5	0.6	0.3	0.4	0.5	0.5	A	0.5	0.3	0.4	0.46	0.82	
28-Dec-06	0.2	0.2	0.2	0.2	0.2	0.3	0.5	2.5	1.1	3.8	2.1	0.7	0.8	0.8	0.8	0.7	1.3	1.1	0.6	A	1.2	0.8	0.6	0.8	0.93	3.84	
29-Dec-06	1.0	0.8	0.5	0.5	0.4	2.8	0.8	3.0	1.6	2.1	0.4	0.4	0.5	0.5	0.5	0.6	0.4	0.6	A	0.5	0.3	0.3	0.2	0.3	0.82	3.01	
30-Dec-06	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	1.1	0.3	0.3	0.2	0.2	0.2	0.2	A	A	0.6	0.2	0.2	0.3	0.2	0.2	0.28	1.11	
31-Dec-06	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.3	0.3	0.9	1.4	1.0	1.0	0.8	0.8	A	1.5	1.1	1.4	1.5	2.4	9.7	2.0	1.23	9.69	
Hourly Avg	0.59	0.51	0.46	0.38	0.34	0.52	0.66	0.89	1.00	0.89	0.83	0.70	0.51	0.53	0.60	0.81	0.79	1.04	0.98	0.86	0.90	0.95	1.07	1.26			
Hourly Max	1.83	1.34	1.08	1.01	0.87	2.84	2.93	3.01	3.25	3.84	3.30	2.30	1.36	1.07	1.77	3.49	2.56	3.34	2.46	2.63	3.24	3.16	9.69	16.91			

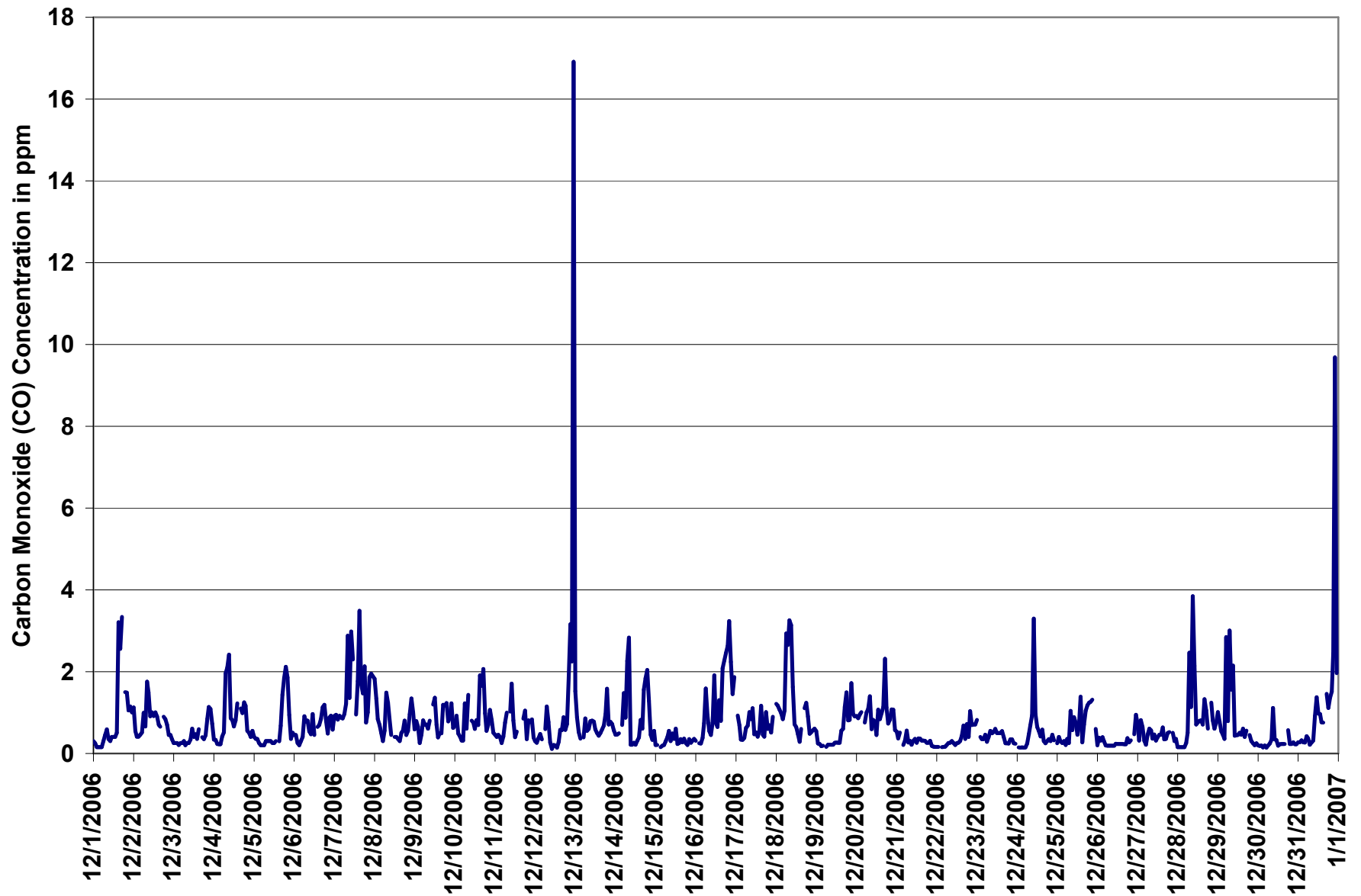
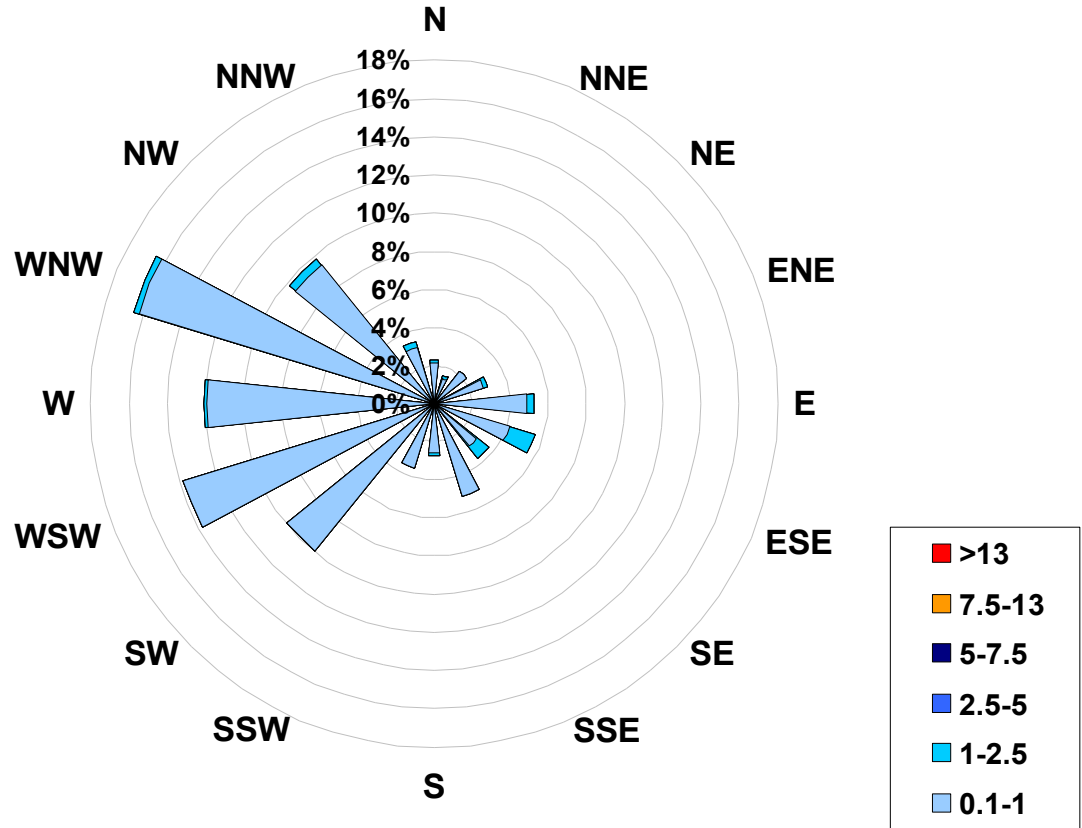


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	676
1	to	2.5	32
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			708

PASZA - Henry Pirker - Carbon Monoxide Eight Hour Average Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

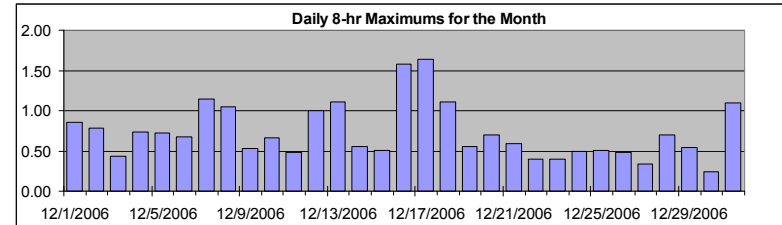
Carbon Monoxide (CO)

Monitoring Dates: December 1, 2006 to January 1, 2007

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	1.6 ppm 17-Dec 0:00 1:00



Percentile	99	95	75	50	25	5	1
	1.1	1.0	0.5	0.4	0.2	0.2	0.2

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-Dec-06	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.7	0.8	0.8	0.8	0.9	0.85		
2-Dec-06	0.8	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.79		
3-Dec-06	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.43		
4-Dec-06	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.74		
5-Dec-06	0.5	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	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.72		
6-Dec-06	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.68		
7-Dec-06	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.9	1.0	1.0	1.15		
8-Dec-06	1.0	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	1.05		
9-Dec-06	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.53		
10-Dec-06	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.66		
11-Dec-06	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.4	N	N	N	N	N	N	N	N	0.5	0.48		
12-Dec-06	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.01	
13-Dec-06	1.1	1.1	1.1	1.1	1.1	0.9	0.7	0.5	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	0.5	0.5	0.5	0.5	1.10	
14-Dec-06	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.56	
15-Dec-06	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.51	
16-Dec-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.8	1.0	1.1	1.4	1.5	1.6	1.6	1.58	
17-Dec-06	1.6	1.5	1.2	1.0	0.7	0.5	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	0.4	0.4	1.64		
18-Dec-06	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.11	
19-Dec-06	0.5	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	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.55	
20-Dec-06	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	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	0.7	0.7	0.69	
21-Dec-06	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.59	
22-Dec-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.40	
23-Dec-06	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.40	
24-Dec-06	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.49	
25-Dec-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.51	
26-Dec-06	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.49	
27-Dec-06	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33	
28-Dec-06	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.70	
29-Dec-06	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.54	
30-Dec-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	
31-Dec-06	0.2	0.2	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	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	1.0	1.1	1.10

Hourly Max	1.64	1.50	1.25	1.06	1.10	0.87	0.83	0.92	1.05	1.10	1.11	1.07	1.05	1.04	1.08	1.15	1.13	1.14	1.04	1.13	1.36	1.51	1.55	1.58
------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

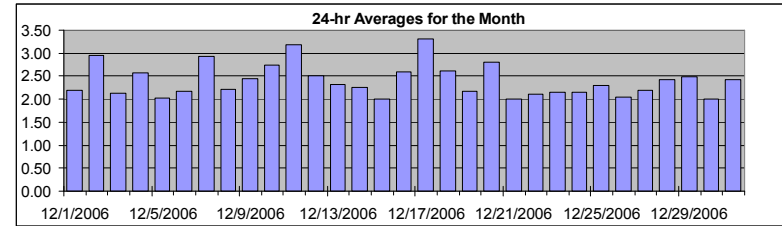
Total Hydrocarbons (THC)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Maximum 1-hr Average:	3.9	ppm	17-Dec	13:00 14:00
Maximum 24-hr Value:	3.3	ppm	17-Dec	

AIC Time:	35 hrs	Operational Time:	706 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.7	3.2	2.7	2.2	2.0	1.9	1.9	2.4 ppm	2.2 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		
1-Dec-06	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.2	2.4	2.8	A	2.6	2.6	2.5	2.7	2.7	2.19	2.78
2-Dec-06	2.9	2.9	3.0	3.1	3.1	3.2	3.0	3.0	3.1	3.2	3.1	3.0	2.9	3.0	3.0	3.0	3.0	3.1	A	3.2	2.9	2.8	2.6	2.5	2.4	2.96	3.23
3-Dec-06	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.13	2.24
4-Dec-06	2.1	2.1	2.1	2.2	2.2	2.4	2.6	2.7	2.8	2.7	2.8	2.9	2.9	2.8	2.9	A	2.9	2.8	2.9	2.9	2.9	2.6	2.4	2.2	2.1	2.57	2.94
5-Dec-06	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.3	2.8	2.6	2.4	2.2	2.1	2.1	2.03	2.81	
6-Dec-06	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.2	2.5	2.2	2.3	2.3	2.3	2.3	2.16	2.53	
7-Dec-06	2.5	2.7	2.8	3.1	3.0	2.7	2.7	2.7	2.8	2.9	3.2	3.4	A	2.9	2.9	3.0	2.7	2.8	2.9	2.8	3.0	3.1	3.4	3.3	2.94	3.45	
8-Dec-06	3.3	3.3	2.9	2.8	2.2	2.0	2.0	2.0	2.2	2.0	2.0	A	1.9	1.9	1.9	1.8	1.9	2.0	2.0	1.9	2.0	2.1	2.4	2.2	2.21	3.32	
9-Dec-06	2.2	2.3	2.3	2.6	2.6	2.9	2.7	2.7	2.8	2.9	A	3.9	2.5	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.4	2.6	2.45	3.87	
10-Dec-06	2.5	2.4	2.4	2.5	2.6	2.6	2.6	2.6	2.6	A	2.8	2.7	2.5	2.5	2.6	2.9	3.0	3.1	3.2	3.0	2.9	3.0	3.1	3.1	2.75	3.18	
11-Dec-06	3.4	3.5	3.5	3.3	3.3	3.6	3.6	3.4	A	3.1	2.9	C	C	C	A	3.8	3.7	3.0	2.1	2.0	2.9	3.4	3.2	3.0	3.19	3.77	
12-Dec-06	3.0	2.9	3.0	2.9	2.8	A	2.7	2.7	2.5	2.1	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.3	2.3	2.3	2.5	2.7	3.1	3.0	2.9	2.52	3.13
13-Dec-06	2.9	2.5	2.4	2.5	A	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.3	2.3	2.5	2.6	2.5	2.5	2.6	2.6	2.32	2.93
14-Dec-06	2.7	2.7	2.5	A	2.3	2.3	2.2	2.3	2.2	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.7	2.4	2.2	2.1	2.0	2.0	2.25	2.73
15-Dec-06	2.0	2.0	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.00	2.11	
16-Dec-06	2.0	A	2.0	2.0	2.1	2.3	2.5	2.2	2.2	2.3	2.4	2.7	2.6	2.6	2.7	2.7	2.9	2.9	3.2	3.3	3.4	3.1	2.9	2.9	2.60	3.40	
17-Dec-06	A	2.9	2.8	3.0	3.1	3.1	3.0	3.2	3.2	3.2	3.3	3.3	3.5	3.9	3.9	3.6	3.7	3.8	3.7	3.2	3.1	3.2	3.3	A	3.31	3.91	
18-Dec-06	3.8	3.7	3.7	3.5	3.0	2.6	2.8	3.0	3.0	2.6	2.5	2.2	2.2	2.1	2.1	2.1	A	A	2.3	2.2	1.9	1.9	2.0	2.2	2.62	3.77	
19-Dec-06	2.1	1.9	1.9	1.9	1.9	A	2.0	2.0	2.3	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.5	2.5	2.4	2.6	2.3	2.5	2.16	2.56	
20-Dec-06	2.7	2.8	2.9	3.1	A	2.8	2.5	2.5	2.6	2.7	2.9	3.1	2.5	2.6	2.6	2.8	3.0	3.0	2.9	2.9	3.1	3.2	3.0	2.5	2.81	3.18	
21-Dec-06	2.6	2.2	2.1	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.61	
22-Dec-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.4	2.3	2.3	2.10	2.40	
23-Dec-06	2.2	A	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.1	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.14	2.37	
24-Dec-06	A	2.0	2.0	2.0	2.0	2.1	2.1	2.5	2.3	2.4	2.5	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	A	2.15	2.50	
25-Dec-06	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.3	2.5	2.6	2.5	2.5	2.4	2.2	2.1	1.9	2.1	2.3	2.5	2.3	2.5	2.2	A	2.1	2.30	2.56	
26-Dec-06	2.1	2.2	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.2	2.04	2.25	
27-Dec-06	2.3	2.0	2.2	2.2	2.1	2.1	2.3	2.1	2.2	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.1	A	2.2	2.2	2.1	2.20	2.40	
28-Dec-06	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.4	2.6	2.5	2.3	2.3	2.3	2.5	2.5	2.6	2.7	2.7	A	2.7	2.7	2.8	3.0	2.43	2.99	
29-Dec-06	3.2	2.9	2.8	2.8	2.9	3.1	3.0	2.9	2.7	2.4	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.5	A	2.5	2.2	2.0	2.0	2.0	2.48	3.15	
30-Dec-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.13	
31-Dec-06	2.0	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.5	2.4	2.5	2.6	A	2.6	2.7	2.7	2.6	2.6	3.0	2.9	2.43	3.00	
Hourly Avg	2.44	2.43	2.42	2.42	2.35	2.37	2.36	2.38	2.36	2.37	2.37	2.42	2.29	2.29	2.32	2.34	2.41	2.45	2.50	2.42	2.45	2.47	2.47	2.43			
Hourly Max	3.77	3.66	3.74	3.53	3.30	3.56	3.59	3.42	3.15	3.21	3.29	3.87	3.55	3.91	3.86	3.77	3.74	3.75	3.72	3.26	3.40	3.42	3.45	3.34			

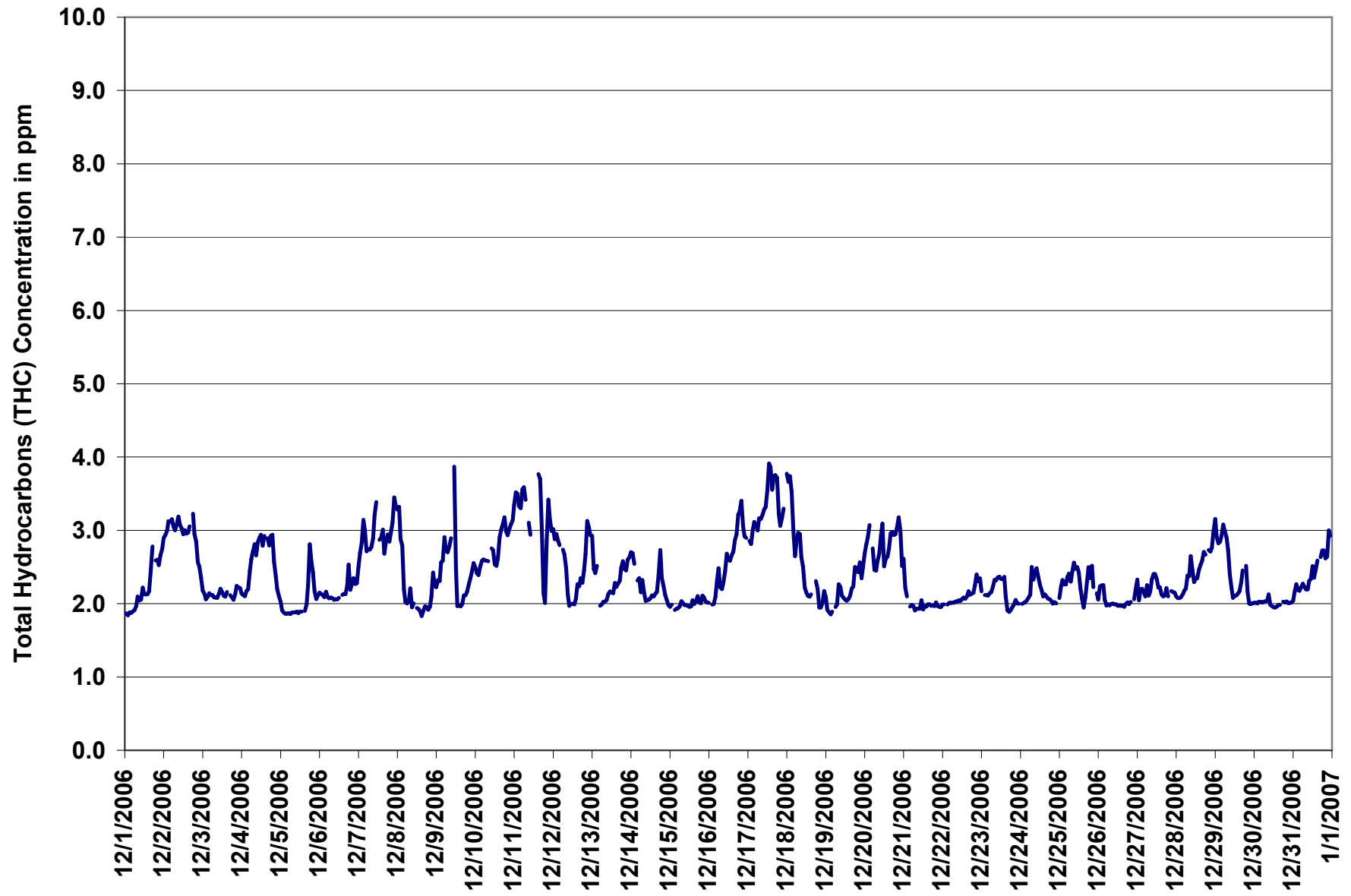


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

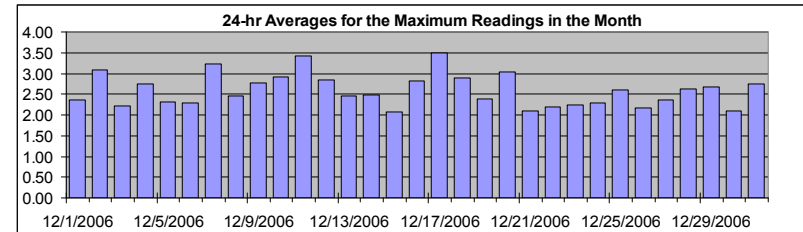
Total Hydrocarbons (THC)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	7.4	ppm	5-Dec	18:00 19:00
Maximum 24-hr Value:	3.5	ppm	17-Dec	

AIC Time:	35 hrs	Operational Time:	706 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.1	3.6	3.0	2.4	2.1	2.0	1.9	2.6 ppm	2.4 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								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-Dec-06	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.1	2.3	2.3	2.2	2.2	2.6	3.1	3.9	A	3.2	2.8	2.6	2.7	2.9	2.37	3.91
2-Dec-06	3.0	3.0	3.1	3.3	3.2	3.4	3.2	3.1	3.4	3.4	3.2	3.3	3.1	3.1	3.1	3.0	3.2	A	3.4	3.1	3.0	2.7	2.6	2.4	3.09	3.39
3-Dec-06	2.2	2.2	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.3	2.2	2.1	2.2	2.6	A	2.1	2.1	2.1	2.3	2.5	2.4	2.3	2.21	2.62
4-Dec-06	2.2	2.2	2.1	2.2	2.2	2.7	2.8	3.0	3.0	2.9	3.3	3.3	3.1	2.8	3.2	A	3.1	2.9	3.3	3.3	2.7	2.5	2.3	2.3	2.75	3.34
5-Dec-06	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.2	2.5	7.4	3.0	2.8	2.2	2.2	2.2	2.32	7.43
6-Dec-06	2.2	2.2	2.3	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	A	2.2	2.2	2.2	2.4	3.1	2.2	2.5	2.5	2.5	2.5	2.29	3.08
7-Dec-06	2.7	2.8	3.2	3.2	3.2	2.9	2.9	2.9	3.2	3.4	3.5	3.8	A	3.1	3.1	3.6	2.9	3.3	3.2	3.1	3.2	3.5	3.8	3.6	3.22	3.83
8-Dec-06	3.7	3.6	3.1	3.2	3.2	2.1	2.1	2.2	2.4	2.2	2.1	A	2.0	2.0	2.1	1.9	2.0	2.1	2.1	2.0	2.1	2.9	3.2	2.4	2.47	3.74
9-Dec-06	2.3	2.5	2.5	2.7	2.9	3.3	2.9	2.8	2.9	3.2	A	6.6	3.6	2.1	2.0	2.0	2.1	2.5	2.3	2.4	2.4	2.4	2.6	2.7	2.78	6.58
10-Dec-06	2.7	2.6	2.5	2.6	2.8	2.6	2.7	2.7	2.8	A	2.9	2.9	2.6	2.7	2.8	3.1	3.2	3.5	3.4	3.0	3.1	3.1	3.3	3.2	2.90	3.45
11-Dec-06	3.5	3.7	3.6	3.4	3.4	3.8	3.8	3.5	A	3.3	3.1	C	C	C	A	4.0	4.1	3.3	2.5	2.1	3.2	3.8	3.6	3.4	3.42	4.08
12-Dec-06	3.1	3.0	3.2	3.0	3.1	A	2.9	2.8	3.0	2.4	2.0	2.1	2.0	2.0	2.3	2.4	2.3	2.5	2.5	2.7	3.2	3.4	3.5	6.1	2.85	6.09
13-Dec-06	3.1	2.6	2.5	2.6	A	2.0	2.3	2.1	2.1	2.2	2.2	2.3	2.2	2.3	2.4	2.3	2.4	2.4	2.7	2.9	2.6	2.6	2.7	2.9	2.45	3.09
14-Dec-06	3.0	2.8	2.8	A	2.7	3.1	2.5	2.8	2.9	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.7	3.2	2.6	2.4	2.2	2.1	2.1	2.49	3.17
15-Dec-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.5	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.0	2.3	2.2	2.1	2.1	2.08	2.46
16-Dec-06	2.1	A	2.0	2.0	2.4	3.0	2.9	2.3	2.3	2.3	2.6	3.0	2.7	2.7	2.8	2.8	3.3	3.2	3.4	3.6	3.7	3.3	3.0	3.2	2.81	3.74
17-Dec-06	A	3.0	2.9	3.3	3.2	3.1	3.3	3.3	3.4	3.3	3.5	3.4	3.7	4.3	4.3	4.1	3.8	3.9	3.9	3.5	3.2	3.3	3.4	A	3.50	4.33
18-Dec-06	3.9	3.8	3.9	3.7	3.5	3.2	3.4	3.4	3.4	3.3	2.8	2.3	2.3	2.3	2.4	2.2	A	A	2.6	2.4	2.1	2.0	2.1	2.4	2.88	3.94
19-Dec-06	2.4	2.1	1.9	1.9	1.9	A	2.0	2.0	2.9	2.8	2.4	2.1	2.1	2.1	2.1	2.3	2.4	2.5	2.9	2.9	2.7	3.1	2.6	2.8	2.38	3.05
20-Dec-06	2.9	3.0	3.1	3.3	A	3.0	2.8	2.6	2.7	2.8	3.2	3.9	2.7	2.8	2.8	3.0	3.1	3.2	3.2	3.2	3.2	3.4	3.3	2.9	3.04	3.92
21-Dec-06	2.8	2.4	2.3	A	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.4	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.09	2.81
22-Dec-06	2.0	2.1	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.2	2.4	2.2	2.4	2.6	2.5	2.5	2.18	2.61
23-Dec-06	2.2	A	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.5	2.1	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.24	2.55
24-Dec-06	A	2.0	2.0	2.1	2.1	2.1	2.2	3.3	2.5	2.8	3.0	2.6	2.3	2.3	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.0	A	2.28	3.31
25-Dec-06	2.2	2.4	2.5	2.3	2.3	2.5	2.5	2.5	2.6	2.6	2.7	2.6	2.5	2.4	2.2	2.0	3.0	2.9	3.2	2.8	4.3	2.4	A	2.3	2.61	4.26
26-Dec-06	2.1	2.5	2.4	3.2	2.3	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	A	2.3	2.5	2.16	3.17
27-Dec-06	2.5	2.1	2.6	2.4	2.3	2.2	2.6	2.3	2.3	2.4	2.5	2.5	2.4	2.4	2.6	2.2	2.2	2.2	2.3	2.2	A	2.3	2.2	2.2	2.35	2.62
28-Dec-06	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.8	2.6	3.2	2.9	2.4	2.5	2.7	2.6	2.7	2.7	2.8	2.8	A	2.9	2.9	3.1	3.5	2.62	3.46
29-Dec-06	3.6	3.1	2.9	3.0	3.0	3.3	3.2	3.4	3.1	2.6	2.5	2.1	2.2	2.2	2.2	2.2	2.4	2.5	A	2.6	3.5	2.0	2.0	2.0	2.68	3.57
30-Dec-06	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.4	2.1	2.0	2.0	2.0	2.0	2.0	A	2.7	2.1	2.1	2.0	2.0	2.1	2.09	2.67	
31-Dec-06	2.1	2.3	2.4	2.2	2.3	2.6	2.5	2.5	2.4	2.3	2.5	2.5	2.9	2.7	2.7	2.8	A	2.9	2.9	3.0	2.9	3.4	5.1	3.1	2.74	5.07
Hourly Avg	2.58	2.55	2.55	2.56	2.51	2.54	2.52	2.57	2.56	2.55	2.54	2.67	2.42	2.41	2.45	2.51	2.60	2.67	2.88	2.61	2.73	2.67	2.71	2.71		
Hourly Max	3.94	3.78	3.86	3.67	3.54	3.79	3.75	3.51	3.42	3.39	3.54	6.58	3.69	4.33	4.28	4.07	4.08	3.91	7.43	3.62	4.26	3.80	5.07	6.09		

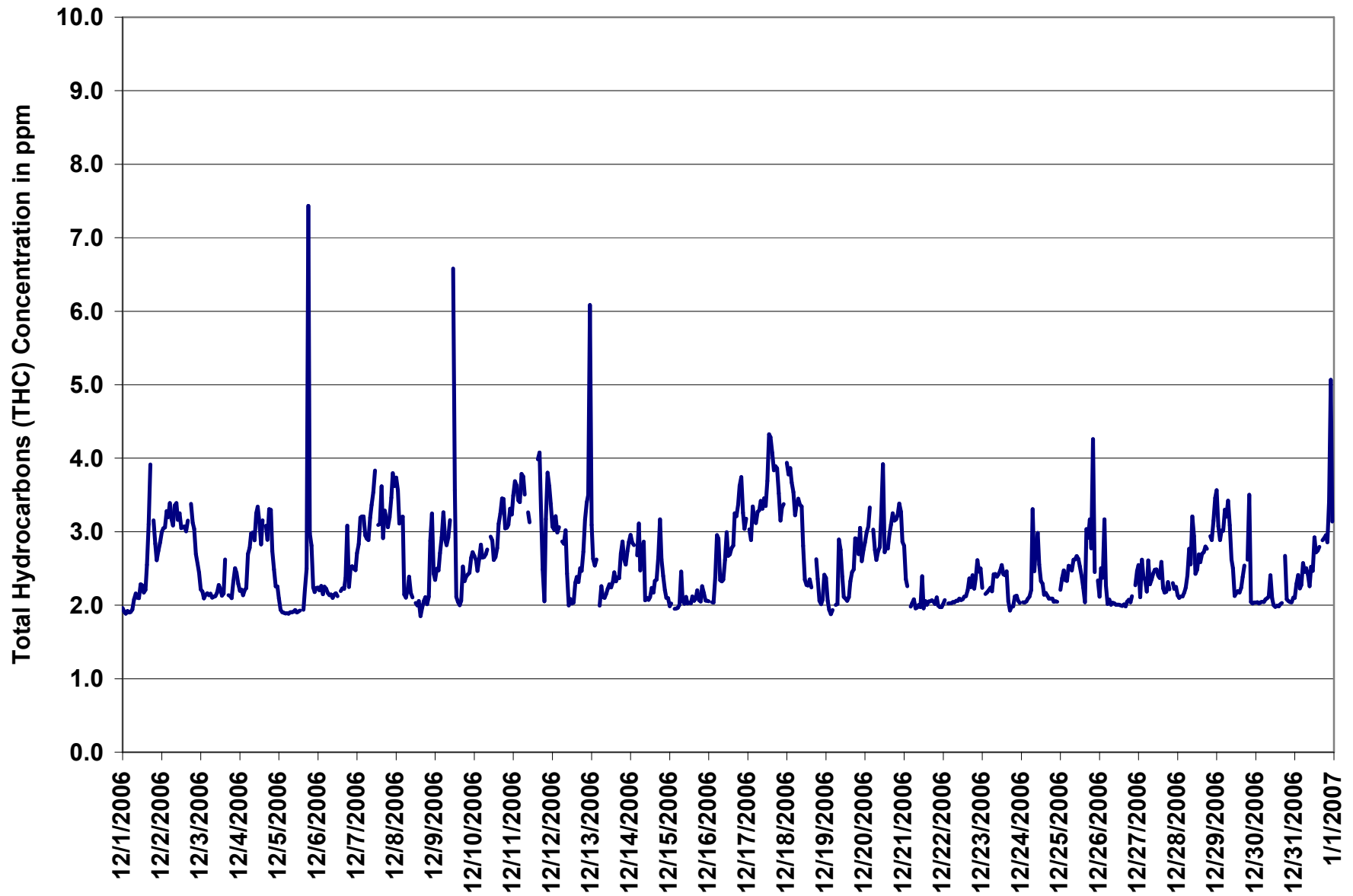
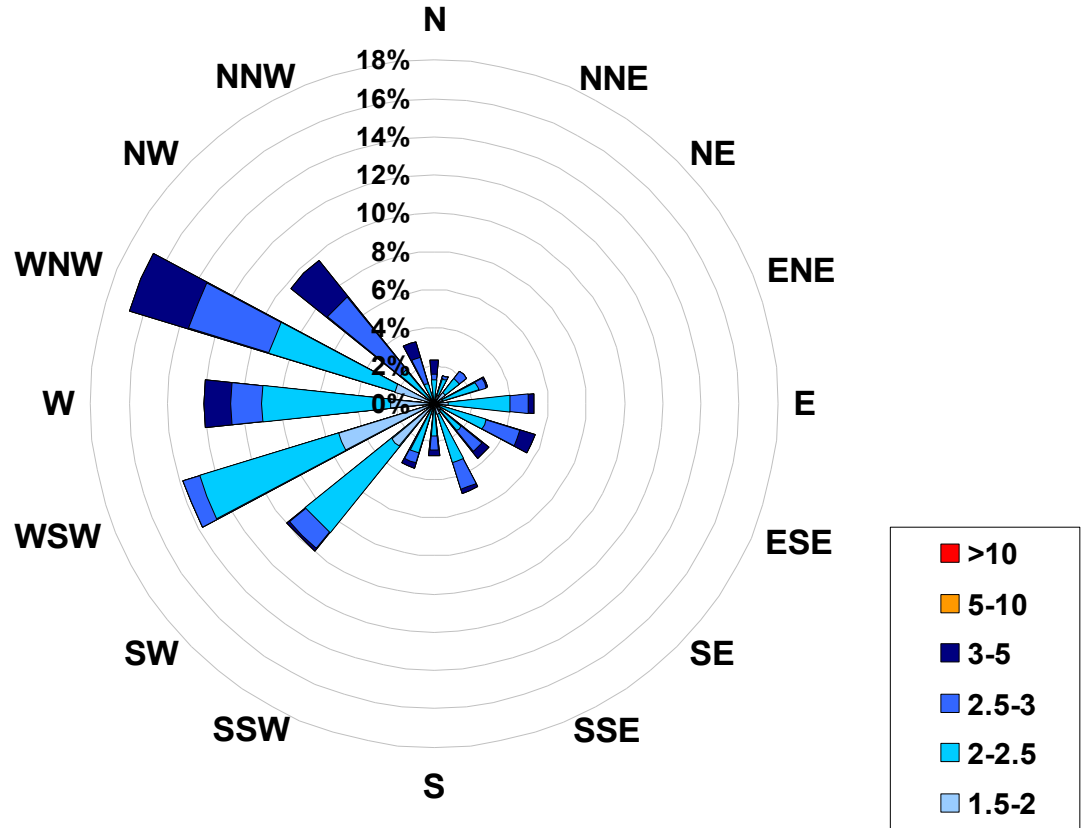


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for December 2006**



Calms: 0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	117
2	to	2.5	350
2.5	to	3	159
3	to	5	80
5	to	10	0
	>	10	0
Total Non-Zero Values			706

PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

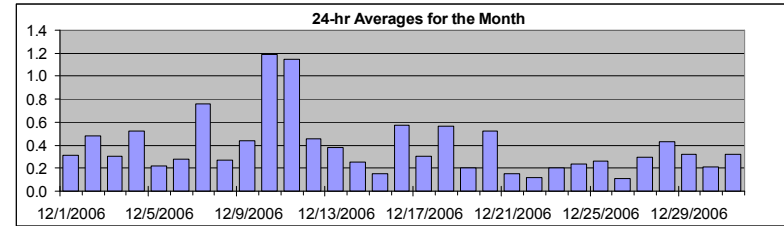
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Summary				
Maximum 1-hr Average:	6.1	ppb	10-Dec	19:00 20:00
Maximum 24-hr Value:	1.2	ppb	10-Dec	



AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.9	0.5	0.3	0.2	0.1	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								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-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	0	0	0.3	0.9
2-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	1	0	0	0	0	0.5	0.7
3-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
4-Dec-06	0:00	1:00	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0	0	0	0.5	0.9
5-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0.2	0.6
6-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0.3	0.6
7-Dec-06	1:00	2:00	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
8-Dec-06	1:00	2:00	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
9-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	1	0	A	1	0	0	0	0	0	0	0	1	1	1	1	1	0.4	0.7
10-Dec-06	1:00	2:00	1	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	6	5	1	1	0	1.2	6.1
11-Dec-06	0:00	1:00	0	1	1	5	2	1	1	2	A	1	1	1	1	1	1	1	1	1	0	0	1	1	2	1	1.1	5.3	
12-Dec-06	1:00	2:00	1	1	0	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	0.9	
13-Dec-06	1:00	2:00	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0.4	0.7	
14-Dec-06	1:00	2:00	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.3	0.7
15-Dec-06	0:00	1:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
16-Dec-06	0:00	1:00	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	0.6	1.5	
17-Dec-06	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
18-Dec-06	1:00	2:00	1	1	1	1	1	1	1	1	1	1	0	C	C	C	C	A	0	1	0	0	0	0	0	0	0.6	1.1	
19-Dec-06	0:00	1:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
20-Dec-06	1:00	2:00	1	1	1	1	A	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	0.5	0.8	
21-Dec-06	0:00	1:00	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
22-Dec-06	0:00	1:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
23-Dec-06	0:00	1:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
24-Dec-06	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	A	0.2	0.5	
25-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
26-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.3
27-Dec-06	0:00	1:00	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	0.4
28-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	0	0	0	A	1	0	1	0.4	0.7
29-Dec-06	1:00	2:00	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	0.3	0.7
30-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.3
31-Dec-06	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0.3	1.6	
Hourly Avg			0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.4		
Hourly Max			0.7	0.8	0.9	5.3	2.4	1.0	1.2	1.9	1.1	1.1	1.4	1.2	0.9	0.9	1.4	0.9	1.1	0.9	2.5	6.1	5.0	1.1	1.6	1.0			

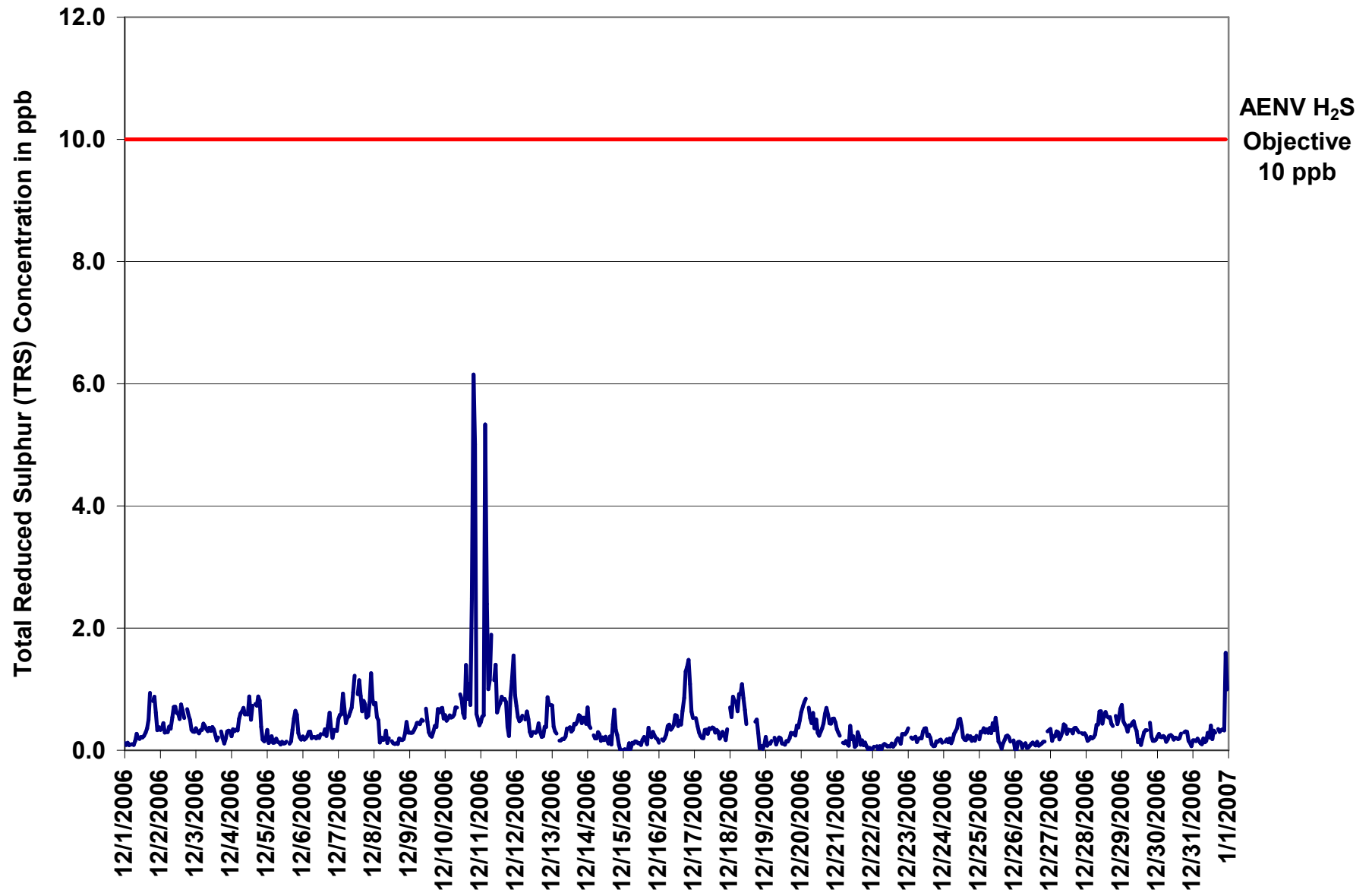


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

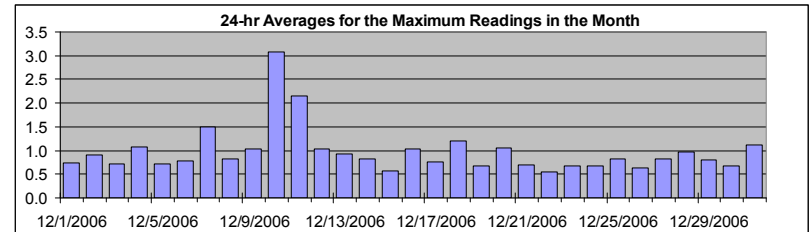
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	17.2	ppb	10-Dec	20:00 21:00
Maximum 24-hr Value:	3.1	ppb	10-Dec	



AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.1	1.8	1.0	0.8	0.6	0.5	0.4	1.0 ppb	0.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Dec-06	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	1.5
2-Dec-06	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	1.3
3-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	0.7	0.9
4-Dec-06	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1	1	1	1.1	2.5
5-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	0	1	1	1	1	1	1	1	0.7	1.3
6-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	0.8	1.7
7-Dec-06	2	2	1	2	2	1	1	1	1	1	1	2	A	1	2	2	1	2	1	1	1	2	2	1	1.5	2.3
8-Dec-06	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	0.8	1.7
9-Dec-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	1	2	3	1	1.0	2.9
10-Dec-06	1	1	1	1	2	1	1	1	2	A	2	1	1	1	9	1	2	1	6	15	17	1	1	1	3.1	17.2
11-Dec-06	1	1	1	12	4	2	2	3	A	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2.2	11.8
12-Dec-06	1	1	1	1	2	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.1
13-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	2.0
14-Dec-06	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	0	0	0.8	2.2
15-Dec-06	0	0	A	0	1	0	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
16-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1.0	2.0
17-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0
18-Dec-06	1	1	2	2	1	1	2	1	2	2	1	1	C	C	C	C	A	1	1	1	0	0	1	0	1.2	2.5
19-Dec-06	1	1	0	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
20-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	1.9
21-Dec-06	2	1	1	A	1	1	1	1	0	1	1	1	0	1	2	1	1	1	1	1	1	0	0	0	0.7	1.8
22-Dec-06	1	0	A	0	0	1	1	1	0	0	1	0	0	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
23-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.7	1.0
24-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	0.7	1.0
25-Dec-06	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.6
26-Dec-06	0	0	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	A	1	2	0.6	1.8
27-Dec-06	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.6
28-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	2	1	1.0	2.4
29-Dec-06	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	0	1	0	0.8	1.6
30-Dec-06	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	1.0
31-Dec-06	1	1	1	1	0	0	1	1	1	1	1	1	2	1	2	1	A	1	1	1	1	1	7	2	1.1	7.1
Hourly Avg	1.0	0.8	0.8	1.2	1.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	1.1	0.8	0.9	1.0	1.1	1.4	1.4	0.9	1.2	1.0		
Hourly Max	2.2	1.7	1.6	11.8	4.4	2.1	2.5	3.1	2.5	2.0	2.3	1.8	2.0	1.9	8.6	1.5	1.6	2.2	5.6	15.3	17.2	2.1	7.1	2.1		

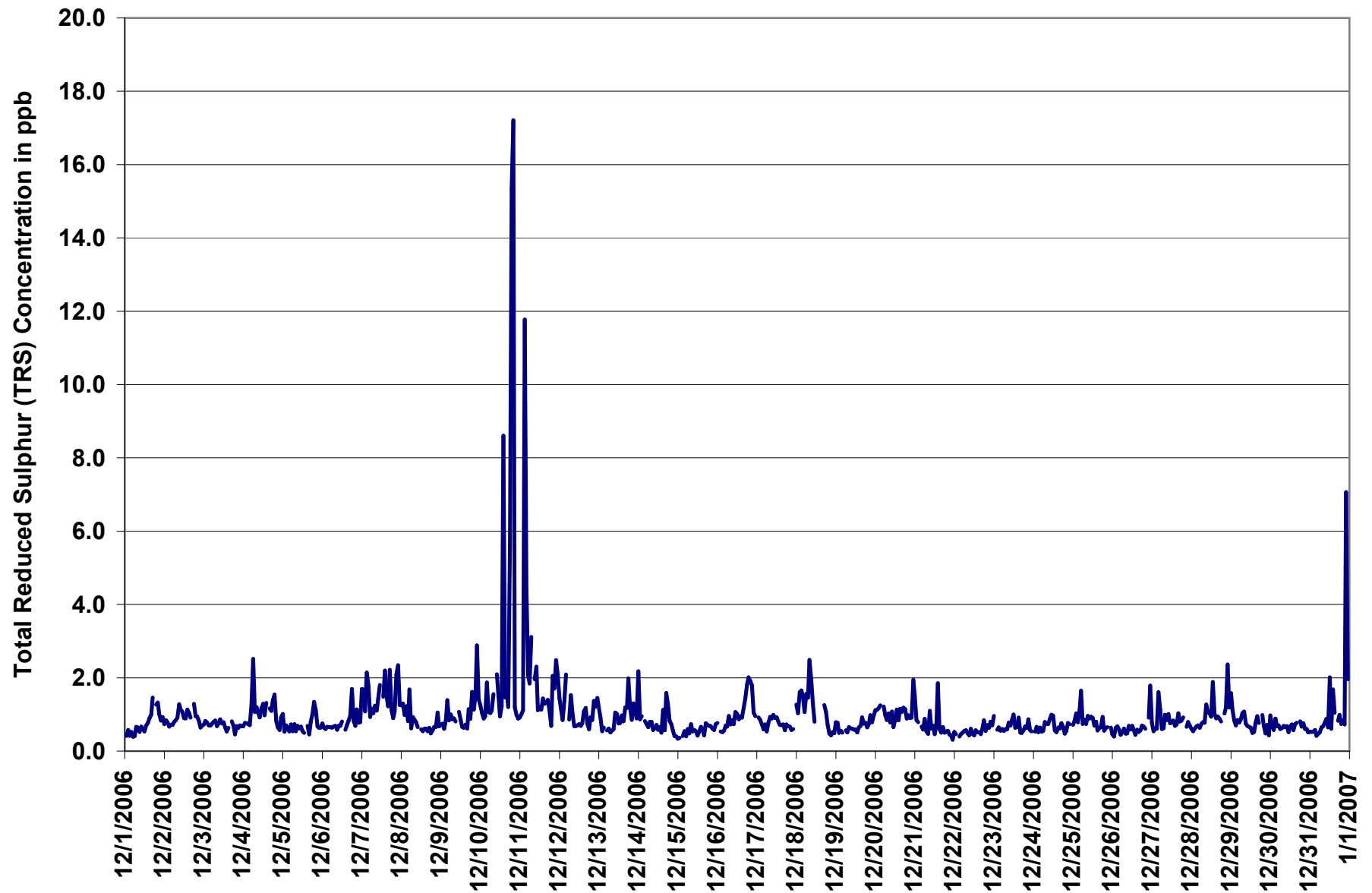
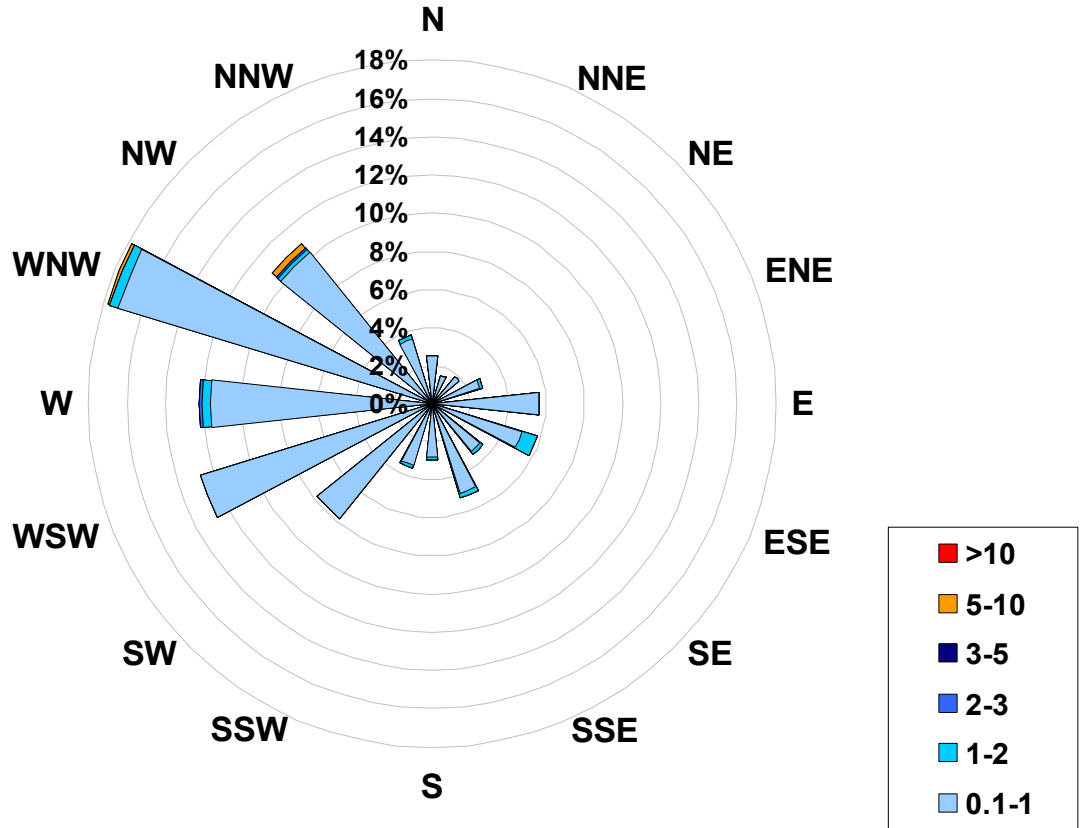


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for December 2006**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	684
1	to	2	18
2	to	3	2
3	to	5	0
5	to	10	3
	>	10	0
Total Non-Zero Values			707

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

Station: Henry Pirker
 Station Owner: PASZA

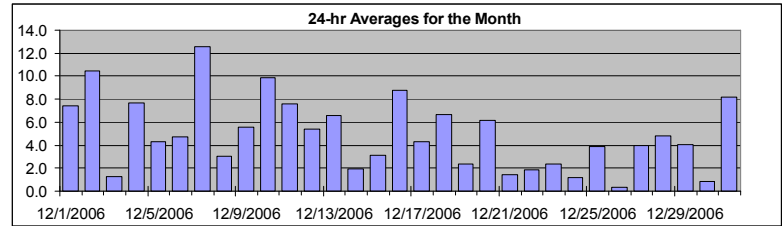
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 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:	97.6 µg/m ³ 31-Dec 22:00 23:00
Maximum 24-hr Value:	12.6 µg/m ³ 7-Dec



AIC Time:	0 hrs	Operational Time:	739 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	99.6%
Percentile	99	95	75
	20.8	14.3	7.3
		50	3.5
		25	1.1
		5	0.0
		1	0.0
	Average / Median		4.9
	Geomean		3.8 µg/m ³

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
1-Dec-06	2	3	4	3	4	4	4	4	6	7	5	5	5	5	5	6	7	10	18	24	13	14	10	6	7	7.4	24.2
2-Dec-06	8	4	4	4	3	5	7	7	11	14	16	14	15	15	16	14	18	13	14	15	13	9	6	4	10.5	18.4	
3-Dec-06	2	2	1	2	1	1	0	0	0	0	2	1	0	0	1	1	1	1	1	1	2	2	5	5	1.3	5.4	
4-Dec-06	2	0	0	1	4	4	6	10	9	10	10	11	9	10	16	12	17	12	14	16	4	2	2	3	7.6	17.3	
5-Dec-06	2	4	5	2	1	1	0	0	2	3	2	1	0	0	1	0	4	13	21	18	14	4	3	2	4.3	20.9	
6-Dec-06	3	3	1	1	1	2	3	4	4	3	3	3	4	6	6	7	7	10	12	8	6	6	7	5	4.7	12.4	
7-Dec-06	10	8	10	15	12	8	9	11	11	10	17	25	20	12	11	10	10	12	12	9	8	13	20	18	12.6	25.0	
8-Dec-06	21	16	9	7	3	0	0	0	3	1	1	1	0	1	0	0	0	0	0	0	1	5	3	3	3.0	20.7	
9-Dec-06	2	1	3	0	2	4	2	9	15	7	4	15	14	D	0	0	0	1	7	10	11	6	9	6	5.6	15.1	
10-Dec-06	8	9	8	4	3	4	5	8	8	10	11	11	8	9	9	27	32	15	13	9	11	6	4	4	9.9	32.2	
11-Dec-06	5	5	8	14	8	10	9	9	7	11	15	9	4	7	6	3	10	7	0	0	7	11	10	7	7.6	14.9	
12-Dec-06	6	5	6	9	5	3	10	12	11	4	1	3	2	0	0	7	5	1	1	4	4	11	11	8	5.4	11.8	
13-Dec-06	12	4	0	0	0	0	2	3	5	6	8	7	8	8	11	11	12	7	7	11	9	11	11	5	6.6	11.9	
14-Dec-06	4	6	7	3	1	1	0	2	2	1	1	0	0	0	1	0	0	5	10	4	0	0	0	0	2.0	10.2	
15-Dec-06	0	0	1	0	2	3	3	4	5	5	5	5	5	4	4	4	4	5	3	2	2	3	2	3	3.1	5.4	
16-Dec-06	3	1	1	1	3	5	5	4	7	7	7	11	10	6	6	7	9	12	15	19	25	22	12	14	8.8	25.1	
17-Dec-06	9	7	5	5	0	2	3	2	3	3	4	8	7	5	3	3	4	6	8	3	3	2	4	6	4.3	8.7	
18-Dec-06	14	11	12	12	5	3	4	6	9	7	8	5	4	2	3	3	C	C	18	9	0	2	4	5	6.7	17.7	
19-Dec-06	3	1	2	3	1	1	3	1	0	1	1	2	1	2	1	2	P	C	3	4	4	5	8	4	5	2.4	7.7
20-Dec-06	9	10	9	10	9	3	0	1	5	4	7	6	4	7	8	6	9	12	9	4	6	5	6	0	6.2	11.8	
21-Dec-06	0	0	0	0	0	0	1	3	2	2	0	4	3	3	2	3	2	1	2	2	2	0	0	0	1.4	3.9	
22-Dec-06	2	1	2	2	1	1	1	1	2	3	2	2	3	1	1	1	2	1	1	2	3	4	3	2	1.9	4.3	
23-Dec-06	1	0	0	0	0	0	0	1	2	4	3	3	5	6	8	4	3	2	4	4	1	3	1	2	2.4	8.3	
24-Dec-06	1	0	0	2	0	0	0	1	2	5	5	6	0	0	0	0	D	0	0	0	0	2	1	2	1.2	6.1	
25-Dec-06	3	4	1	3	2	2	1	2	4	9	7	11	4	9	1	0	5	2	4	11	7	0	3	1	3.9	10.7	
26-Dec-06	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	2	1	0.3	1.9	
27-Dec-06	5	1	3	3	2	0	3	2	4	5	3	4	4	5	7	7	6	5	5	5	5	5	3	3	4.0	7.1	
28-Dec-06	2	2	1	2	1	2	1	2	4	8	8	4	5	6	8	8	9	9	6	5	5	6	5	6	4.8	9.1	
29-Dec-06	13	14	11	3	1	1	4	3	5	2	0	0	0	0	2	5	4	6	8	8	6	1	1	0	4.1	14.0	
30-Dec-06	1	0	0	0	0	0	0	0	0	2	0	0	0	1	1	2	2	2	2	3	1	0	2	1	0.8	2.6	
31-Dec-06	0	0	0	0	0	0	0	0	0	1	1	1	4	6	4	5	9	8	6	12	11	11	98	19	8.1	97.6	
Hourly Avg	4.9	3.9	3.7	3.6	2.4	2.3	2.9	3.7	4.8	4.9	5.1	5.7	4.8	4.5	4.6	5.1	6.9	6.4	7.5	6.7	6.1	5.4	8.1	4.7			
Hourly Max	20.7	16.0	11.9	15.1	12.3	10.3	10.3	11.8	15.1	14.4	17.0	25.0	20.2	15.0	16.3	26.9	32.2	18.0	24.2	18.9	25.1	22.0	97.6	18.7			

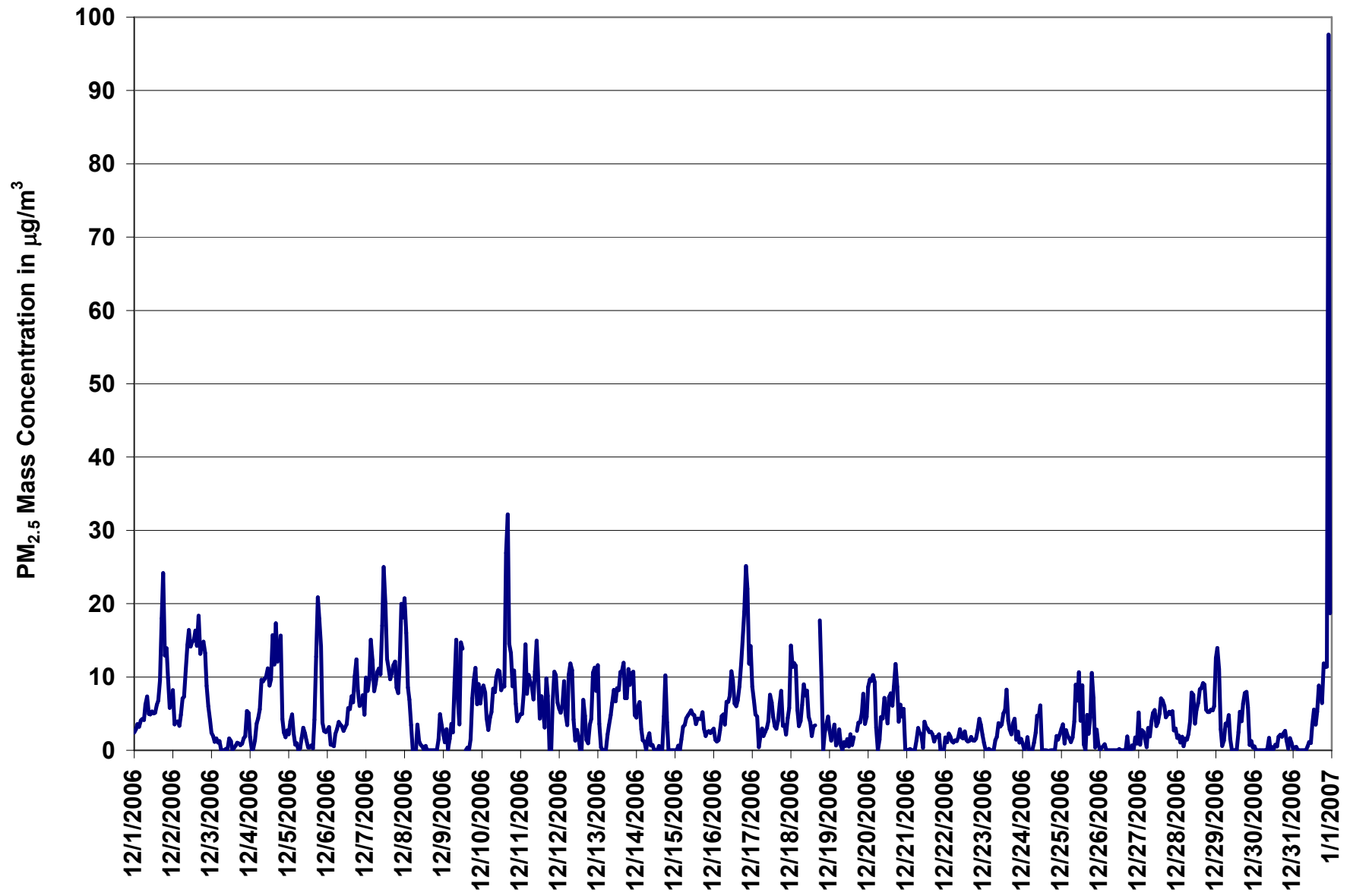


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

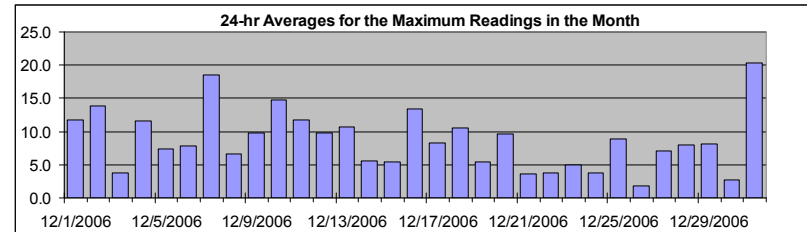
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	304.0	µg/m ³	31-Dec	22:00 23:00
Maximum 24-hr Value:	20.4	µg/m ³	31-Dec	



AIC Time:	0 hrs	Operational Time:	739 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	32.3	20.4	11.2	6.6	3.6	1.2	0.5	8.7	7 µg/m ³
									7.6 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																								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-Dec-06	6	6	6	6	6	9	6	10	10	8	10	10	7	8	10	10	20	31	30	21	18	14	8	10	11.8	31.1
2-Dec-06	13	6	6	6	6	9	10	10	17	20	19	16	19	18	20	17	22	17	21	18	18	11	11	6	13.9	21.9
3-Dec-06	4	4	4	3	3	4	1	1	2	4	4	4	5	2	4	3	4	5	3	3	4	6	9	8	3.8	9.5
4-Dec-06	4	3	2	4	8	7	10	12	14	13	17	16	11	12	20	16	27	14	24	23	7	4	4	7	11.6	27.2
5-Dec-06	5	6	9	5	4	3	3	2	4	5	4	4	2	3	3	2	11	16	24	25	19	8	4	5	7.3	24.7
6-Dec-06	5	6	3	3	4	7	7	7	6	5	5	7	6	8	9	9	10	13	15	11	8	12	16	7	7.9	15.8
7-Dec-06	13	10	15	17	18	11	18	16	19	13	22	37	37	19	18	15	17	17	15	11	11	20	29	24	18.5	37.5
8-Dec-06	33	20	14	15	13	2	3	3	6	5	4	3	2	3	0	3	2	1	2	1	2	7	7	9	6.6	33.5
9-Dec-06	5	4	7	3	4	7	5	20	21	10	10	25	23	D	1	2	2	4	11	13	13	9	12	9	9.7	25.5
10-Dec-06	11	12	13	12	7	9	9	11	11	14	14	14	12	11	13	36	44	24	22	14	17	10	6	7	14.7	43.6
11-Dec-06	9	11	13	19	11	14	12	12	9	13	22	12	6	11	10	10	18	10	5	5	13	14	12	11	11.7	22.4
12-Dec-06	8	10	8	28	9	8	13	17	17	6	4	5	4	2	4	10	11	5	4	7	9	14	17	11	9.8	28.0
13-Dec-06	17	11	6	1	1	3	7	6	8	10	11	11	13	12	15	15	15	10	10	18	15	14	14	14	10.7	17.8
14-Dec-06	9	12	10	9	4	4	2	4	8	3	4	3	2	2	4	2	5	13	16	8	6	3	0	1	5.5	16.1
15-Dec-06	1	2	3	2	4	7	6	7	7	7	8	8	6	6	7	7	6	8	5	5	5	4	4	5	5.4	8.2
16-Dec-06	5	3	3	3	8	9	9	8	10	10	13	17	15	9	10	11	14	16	21	23	33	31	17	22	13.4	33.1
17-Dec-06	13	10	10	9	2	5	7	5	8	6	6	12	11	7	6	4	7	10	23	8	7	6	7	11	8.3	23.0
18-Dec-06	20	15	15	15	12	7	6	10	12	11	11	10	6	5	9	7	C	C	20	19	1	5	9	7	10.6	20.4
19-Dec-06	6	7	5	9	5	4	7	3	2	3	3	3	3	4	3	4	P	7	6	5	9	10	9	5	5.4	9.7
20-Dec-06	13	12	11	13	14	6	3	5	8	7	10	9	7	11	11	9	11	14	14	9	14	8	8	5	9.6	14.3
21-Dec-06	2	2	4	1	2	2	4	5	4	4	2	6	6	5	6	5	5	3	4	4	4	0	2	1	3.5	6.4
22-Dec-06	4	3	5	4	3	3	3	3	3	5	3	4	4	3	3	3	4	4	4	3	5	6	6	3	3.8	6.3
23-Dec-06	4	1	3	3	2	3	1	4	6	8	6	7	7	8	12	8	5	4	6	6	4	5	3	3	5.0	11.8
24-Dec-06	3	3	2	4	1	1	2	4	4	7	10	12	3	2	0	1	D	3	5	1	1	6	6	6	3.7	12.3
25-Dec-06	8	8	3	5	4	3	3	4	7	16	10	16	8	24	7	1	8	9	12	24	22	3	5	4	8.9	24.0
26-Dec-06	0	2	2	3	2	0	0	1	1	1	0	1	3	1	1	1	2	5	3	2	2	2	4	3	1.8	5.3
27-Dec-06	9	2	5	5	3	3	4	3	6	6	8	6	8	7	10	10	11	8	8	11	12	11	7	7	7.1	11.9
28-Dec-06	3	4	4	4	3	5	3	4	9	11	11	7	8	10	14	11	12	14	10	9	8	10	8	9	8.0	14.4
29-Dec-06	20	30	19	9	7	4	6	7	8	7	3	1	3	3	5	8	8	10	11	10	9	2	3	2	8.1	29.7
30-Dec-06	3	1	2	1	0	1	1	1	2	4	2	3	2	3	2	4	4	4	4	5	4	2	3	4	2.7	5.0
31-Dec-06	2	2	3	1	1	1	2	2	2	2	3	3	7	19	9	7	15	12	11	14	13	20	304	33	20.4	304.0
Hourly Avg	8.4	7.3	6.9	7.2	5.5	5.2	5.6	6.7	8.0	7.8	8.4	9.5	8.3	8.0	7.9	8.1	11.4	10.5	11.9	10.9	10.1	9.0	17.8	8.5		
Hourly Max	33.5	29.7	18.9	28.0	18.1	14.3	18.2	20.0	20.8	20.0	22.4	37.5	37.4	24.0	19.8	36.4	43.6	31.1	30.3	24.7	33.1	31.0	304.0	33.5		

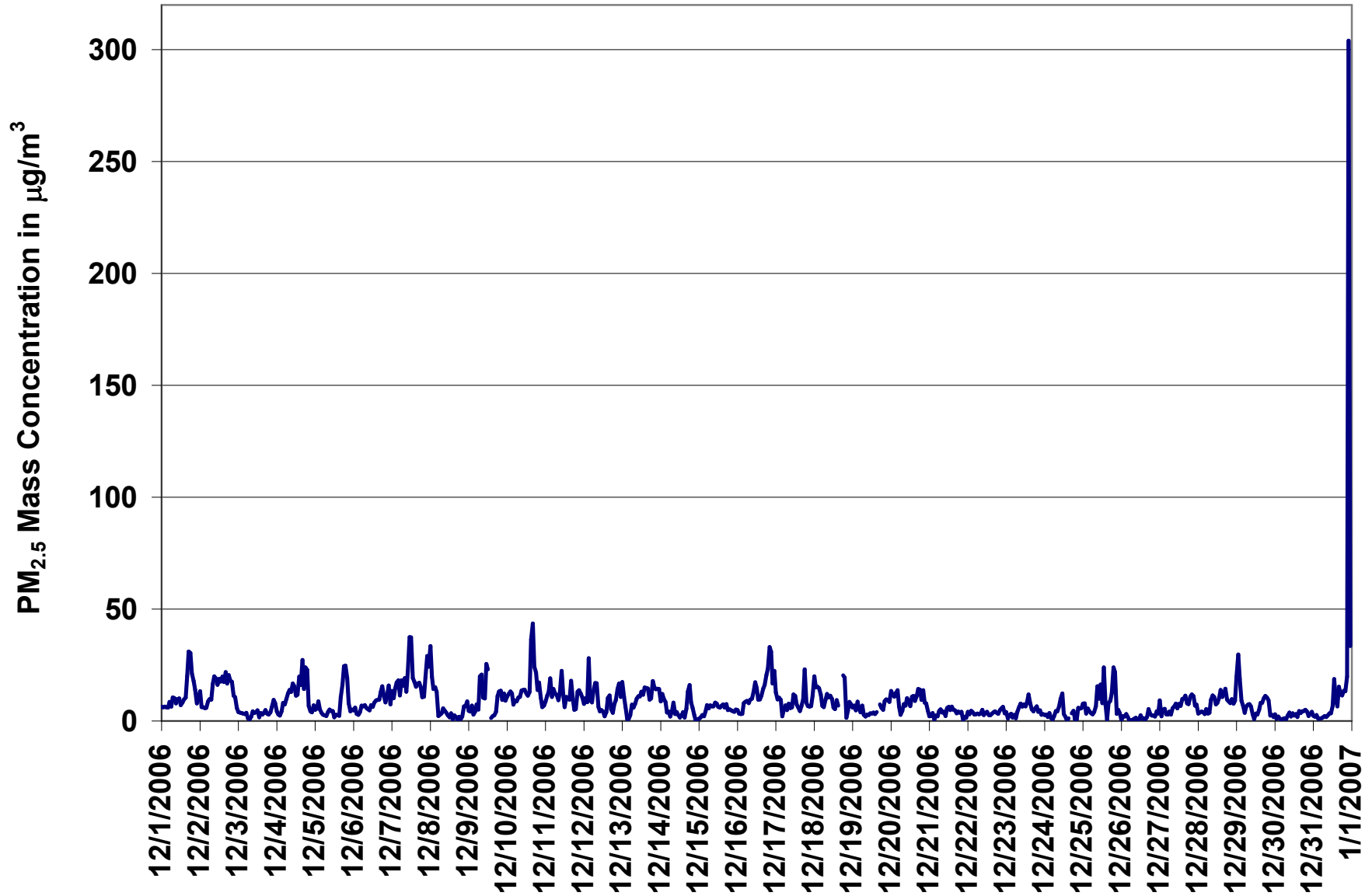
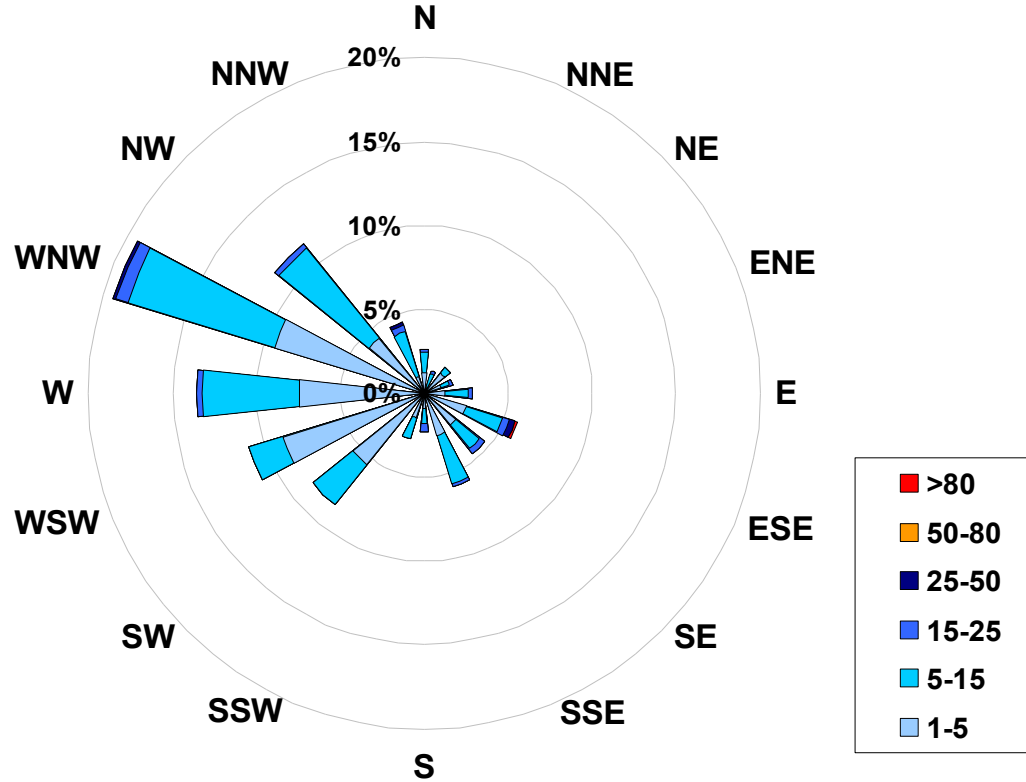


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	466
5	to	15	246
15	to	25	22
25	to	50	4
50	to	80	0
	>	80	1
Total Non-Zero Values			739

PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

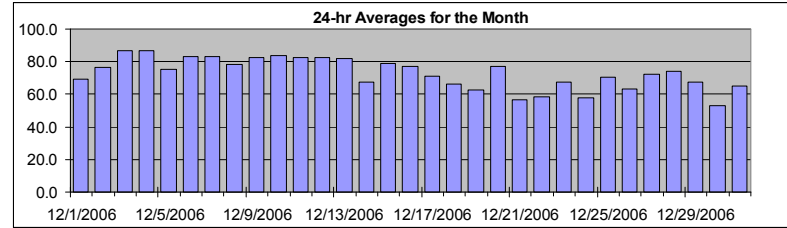
Relative Humidity (RH)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	92.9	%	5-Dec	0:00 1:00
Maximum 24-hr Value:	86.9	%	4-Dec	

AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	89.5	87.7	83.4	74.4	65.0	51.9	44.7	72.9 %	74.4 %



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-Dec-06	73	71	68	67	68	69	70	72	71	69	66	65	61	60	54	58	68	75	77	76	75	74	73	69.1	77.5	
2-Dec-06	74	73	73	73	73	73	73	73	74	75	75	75	74	72	72	77	80	81	81	81	81	81	84	86	76.4	86.4
3-Dec-06	87	89	89	88	88	87	87	87	87	86	85	84	84	84	84	85	86	87	87	87	88	88	87	87	86.5	88.6
4-Dec-06	87	85	84	83	83	83	83	83	83	84	84	86	86	88	88	89	89	89	90	90	91	92	93	93	86.9	92.8
5-Dec-06	93	87	78	76	73	72	72	72	70	68	63	62	61	63	63	69	78	82	84	86	87	86	85	85	75.0	92.9
6-Dec-06	85	85	85	85	85	86	86	87	86	84	83	79	76	76	77	79	83	84	83	83	84	84	84	84	83.1	86.7
7-Dec-06	85	85	86	85	85	84	84	84	84	84	79	73	68	70	77	82	84	85	86	86	88	89	88	88	82.9	88.9
8-Dec-06	89	89	89	88	79	75	80	81	83	78	76	73	69	69	66	71	75	73	75	73	73	80	84	86	78.1	89.3
9-Dec-06	87	86	85	83	84	84	82	81	79	80	80	84	83	75	76	78	80	81	84	84	85	86	86	86	82.4	86.8
10-Dec-06	86	87	87	86	86	87	87	88	88	88	87	84	73	62	76	75	82	86	86	85	85	84	85	84	83.5	88.0
11-Dec-06	84	83	82	82	82	82	83	84	84	85	86	86	85	84	84	85	87	87	76	69	76	82	83	81	82.6	87.1
12-Dec-06	83	85	87	86	89	89	88	88	86	79	87	90	89	79	71	77	73	71	72	73	78	83	86	87	82.4	89.8
13-Dec-06	86	83	82	81	83	72	68	71	76	84	85	84	78	76	80	89	89	89	88	87	85	84	85	85	82.1	89.2
14-Dec-06	85	86	88	88	87	80	70	71	67	61	56	54	49	50	54	56	66	68	68	68	66	64	61	67.4	88.2	
15-Dec-06	59	67	65	65	73	85	87	86	85	85	83	80	81	83	83	84	85	86	83	83	82	80	76	75	79.2	86.8
16-Dec-06	78	83	83	83	84	84	82	81	77	77	78	75	69	64	64	69	78	81	81	80	80	77	74	72	77.2	84.2
17-Dec-06	72	72	71	70	70	71	70	70	70	70	69	68	67	66	68	70	72	73	74	75	75	75	77	77	71.3	76.5
18-Dec-06	79	79	80	79	76	74	77	76	78	75	71	63	60	60	52	53	62	67	62	56	52	51	58	57	66.5	79.9
19-Dec-06	57	57	68	76	76	63	62	66	63	59	56	55	56	55	54	58	60	61	63	65	66	69	68	72	62.6	75.8
20-Dec-06	78	81	83	83	82	81	80	77	78	77	75	72	70	68	68	68	74	78	79	80	80	80	80	78	77.0	82.6
21-Dec-06	79	74	69	66	65	67	63	56	55	54	44	41	49	53	45	55	57	58	60	62	60	45	44	45	56.8	79.4
22-Dec-06	44	49	49	53	56	61	63	64	66	65	62	58	55	51	51	56	59	62	61	62	67	68	64	60	58.6	67.9
23-Dec-06	59	59	62	68	71	75	77	77	74	74	70	68	66	69	69	65	62	62	64	62	66	65	65	65	67.2	77.4
24-Dec-06	63	56	56	54	54	53	60	66	68	61	53	45	45	44	45	47	44	49	71	68	74	74	67	70	57.8	74.0
25-Dec-06	81	83	85	85	84	84	84	85	84	84	80	69	59	55	49	46	51	58	61	62	66	63	71	69	70.6	85.1
26-Dec-06	65	70	77	78	79	75	74	72	68	65	57	52	50	51	50	52	53	57	57	58	61	62	65	68	63.1	79.4
27-Dec-06	73	68	73	77	77	71	75	73	72	74	72	68	67	66	65	67	71	71	72	73	77	78	78	77	72.3	78.3
28-Dec-06	71	69	69	69	71	76	77	77	78	80	81	77	70	70	68	66	70	72	74	76	77	79	78	79	74.0	80.6
29-Dec-06	80	78	77	75	75	77	76	75	75	64	61	54	55	57	57	64	70	71	70	67	56	58	63	68	67.6	79.9
30-Dec-06	64	61	52	48	46	45	49	49	50	52	50	53	53	54	53	53	54	56	55	54	53	56	56	56	53.1	64.3
31-Dec-06	57	60	61	61	59	63	63	64	63	63	65	62	61	60	60	64	66	72	73	73	71	74	75	77	65.2	77.4
Hourly Avg	75.6	75.4	75.5	75.5	75.6	75.1	75.2	75.3	75.1	73.8	71.6	68.8	66.9	65.4	65.1	67.8	70.6	73.2	74.1	73.7	74.4	74.7	75.0	75.2		
Hourly Max	92.9	88.6	89.3	88.3	89.0	88.7	88.5	88.5	87.7	88.0	86.6	89.8	88.8	88.1	88.5	88.8	89.2	89.2	89.6	90.3	91.1	91.9	92.5	92.8		

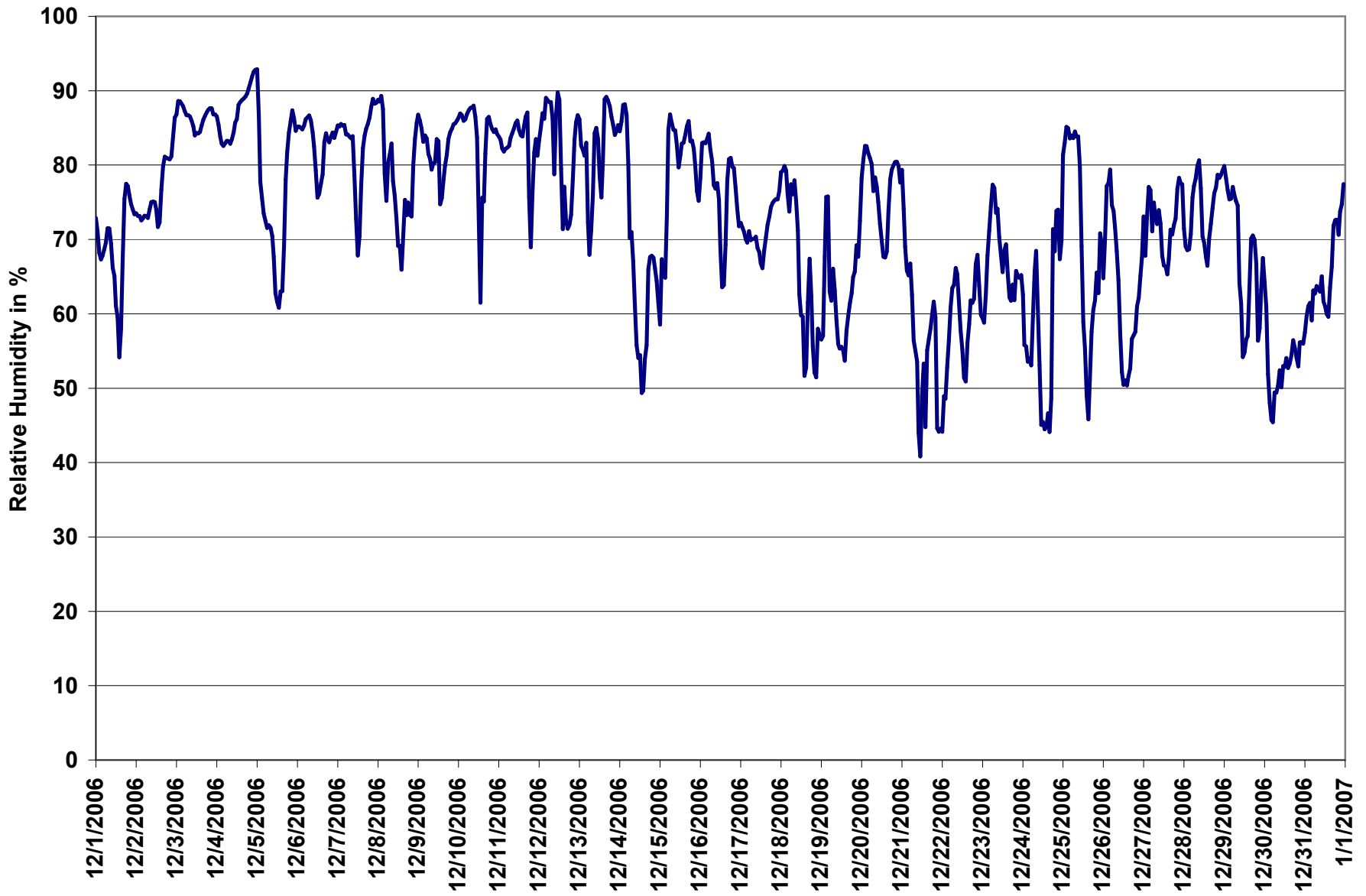


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

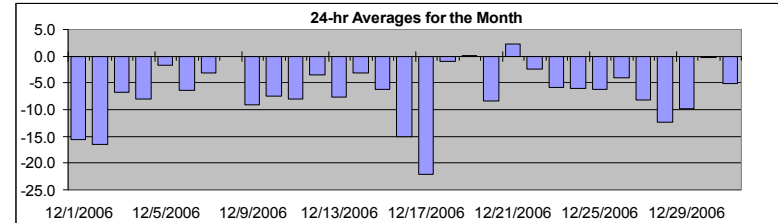
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	7.9 °C	21-Dec	11:00 12:00
Maximum 24-hr Value:	2.2 °C	21-Dec	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.4	2.4	-2.5	-6.0	-10.1	-19.1	-26.2	-6.7 °C	-6.0 °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-Dec-06	-15	-15	-14	-13	-13	-14	-14	-15	-15	-15	-14	-13	-11	-10	-10	-12	-14	-16	-19	-20	-21	-23	-24	-24	-15.6	-9.7
2-Dec-06	-24	-24	-23	-23	-23	-23	-23	-23	-22	-20	-18	-16	-14	-13	-12	-13	-12	-11	-11	-10	-10	-10	-8	-7	-16.4	-6.5
3-Dec-06	-5	-5	-5	-5	-6	-6	-7	-7	-8	-8	-8	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-8	-9	-9	-6.8	-4.6
4-Dec-06	-9	-10	-12	-13	-13	-13	-12	-12	-13	-12	-10	-8	-7	-5	-5	-5	-6	-6	-5	-5	-4	-3	-2	-2	-7.9	-1.6
5-Dec-06	-2	0	0	-1	-1	-1	-1	-1	-1	-1	0	2	3	3	2	1	-1	-3	-5	-6	-7	-7	-8	-8	-1.7	3.2
6-Dec-06	-9	-9	-8	-9	-10	-9	-9	-8	-7	-6	-6	-5	-4	-4	-4	-5	-6	-6	-5	-5	-6	-6	-6	-6	-6.5	-3.6
7-Dec-06	-6	-6	-6	-5	-5	-5	-5	-5	-5	-5	-3	-1	2	3	2	-1	-2	-3	-3	-3	-4	-4	-4	-4	-3.2	2.6
8-Dec-06	-5	-5	-5	-4	0	2	0	-1	0	1	2	3	4	5	6	5	3	2	0	-1	-1	-4	-5	-8	-0.1	6.0
9-Dec-06	-9	-10	-12	-13	-13	-12	-14	-16	-17	-16	-14	-10	-3	-1	-2	-3	-4	-5	-7	-7	-7	-8	-8	-7	-9.1	-1.3
10-Dec-06	-8	-9	-9	-9	-9	-9	-8	-7	-7	-7	-6	-5	-2	1	-3	-3	-6	-8	-9	-11	-11	-11	-11	-12	-7.5	1.3
11-Dec-06	-12	-12	-13	-14	-13	-13	-13	-12	-11	-10	-9	-8	-8	-7	-8	-7	-6	-4	0	2	-1	-3	-4	-4	-7.9	2.1
12-Dec-06	-5	-6	-7	-7	-7	-7	-7	-7	-4	0	1	0	1	1	3	1	0	-2	-3	-4	-4	-7	-7	-9	-3.5	2.5
13-Dec-06	-10	-14	-14	-14	-11	-5	-5	-5	-5	-5	-4	-4	-3	-2	-3	-5	-6	-6	-8	-9	-10	-11	-11	-10	-7.6	-2.3
14-Dec-06	-11	-10	-8	-7	-6	-5	-3	-4	-2	0	1	2	2	3	2	0	-1	-5	-4	-5	-5	-4	-4	-3	-3.2	3.2
15-Dec-06	-2	-4	-3	-2	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-7	-7	-7	-7	-8	-9	-9	-9	-9	-6.2	-2.2
16-Dec-06	-9	-10	-10	-10	-12	-13	-15	-17	-19	-20	-17	-13	-11	-11	-10	-12	-14	-16	-16	-18	-18	-20	-23	-26	-15.0	-9.4
17-Dec-06	-27	-26	-27	-28	-27	-26	-27	-27	-27	-26	-23	-20	-20	-18	-20	-21	-22	-20	-19	-18	-16	-16	-15	-13	-22.0	-13.0
18-Dec-06	-11	-10	-9	-7	-6	-5	-6	-4	-4	-3	-2	2	4	4	6	6	4	2	3	3	4	4	1	1	-1.0	6.3
19-Dec-06	1	3	2	3	2	2	1	0	0	0	1	1	1	2	2	2	1	-1	-1	-2	-2	-4	-4	-6	0.1	3.2
20-Dec-06	-8	-9	-10	-9	-9	-9	-10	-12	-12	-10	-9	-7	-6	-4	-4	-5	-7	-8	-10	-11	-11	-10	-8	-5	-8.4	-4.1
21-Dec-06	-6	-3	-1	0	1	0	2	4	5	4	7	8	7	6	7	4	3	3	2	1	-1	0	0	0	2.2	7.9
22-Dec-06	-1	-1	-1	-1	-2	-2	-2	-2	-3	-2	-1	0	0	0	0	-2	-3	-4	-4	-4	-6	-5	-5	-4	-2.4	0.0
23-Dec-06	-4	-4	-5	-7	-8	-11	-13	-12	-10	-9	-6	-5	-4	-5	-5	-2	-1	-1	-2	-2	-4	-5	-7	-7	-5.9	-0.5
24-Dec-06	-7	-6	-6	-5	-6	-6	-7	-9	-11	-10	-8	-6	-6	-6	-6	-6	-5	-6	-6	-5	-4	-3	-2	-3	-6.0	-2.5
25-Dec-06	-7	-8	-10	-11	-12	-12	-12	-12	-11	-12	-7	-5	-2	0	2	2	-1	-3	-4	-5	-6	-4	-5	-5	-6.2	2.0
26-Dec-06	-4	-6	-8	-7	-6	-3	-4	-5	-5	-5	-3	-1	0	0	0	-1	-1	-3	-4	-5	-6	-6	-7	-8	-4.0	0.1
27-Dec-06	-9	-8	-10	-11	-11	-10	-12	-10	-10	-11	-10	-8	-7	-6	-4	-4	-5	-6	-6	-6	-8	-9	-8	-7	-8.1	-4.0
28-Dec-06	-7	-7	-8	-10	-11	-13	-13	-13	-13	-13	-12	-11	-12	-11	-11	-12	-13	-14	-14	-15	-16	-16	-16	-15	-12.3	-6.6
29-Dec-06	-16	-17	-17	-16	-16	-16	-17	-17	-14	-11	-10	-8	-7	-7	-6	-6	-7	-8	-8	-9	-2	1	0	-1	-9.8	0.6
30-Dec-06	0	0	0	0	0	0	-2	-2	-2	-1	0	1	2	3	2	2	1	0	-1	-1	-2	-3	-2	-0.3	2.7	
31-Dec-06	-3	-4	-5	-5	-5	-7	-6	-6	-6	-6	-5	-5	-4	-3	-3	-4	-5	-7	-7	-6	-5	-5	-6	-6	-5.1	-3.1
Hourly Avg	-8.0	-8.2	-8.4	-8.5	-8.5	-8.3	-8.7	-8.8	-8.5	-7.9	-6.5	-4.9	-3.8	-3.0	-3.1	-3.8	-4.9	-5.8	-6.2	-6.4	-6.7	-7.1	-7.3	-7.4		
Hourly Max	1.1	2.5	1.6	3.2	1.5	2.1	2.1	4.5	4.8	4.4	6.8	7.9	7.2	6.0	6.8	5.9	3.6	2.6	2.5	3.4	4.0	3.8	1.5	1.3		

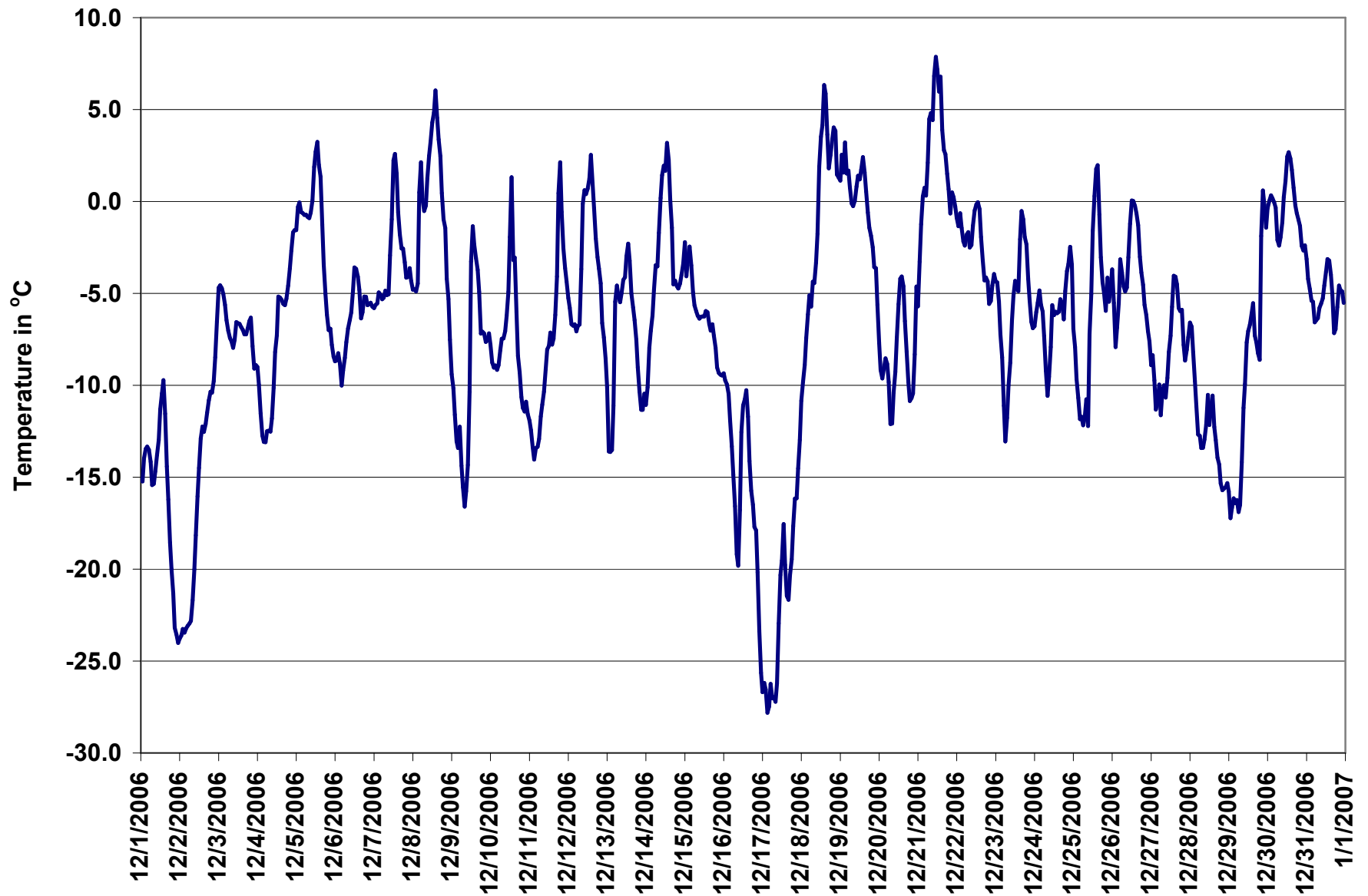


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

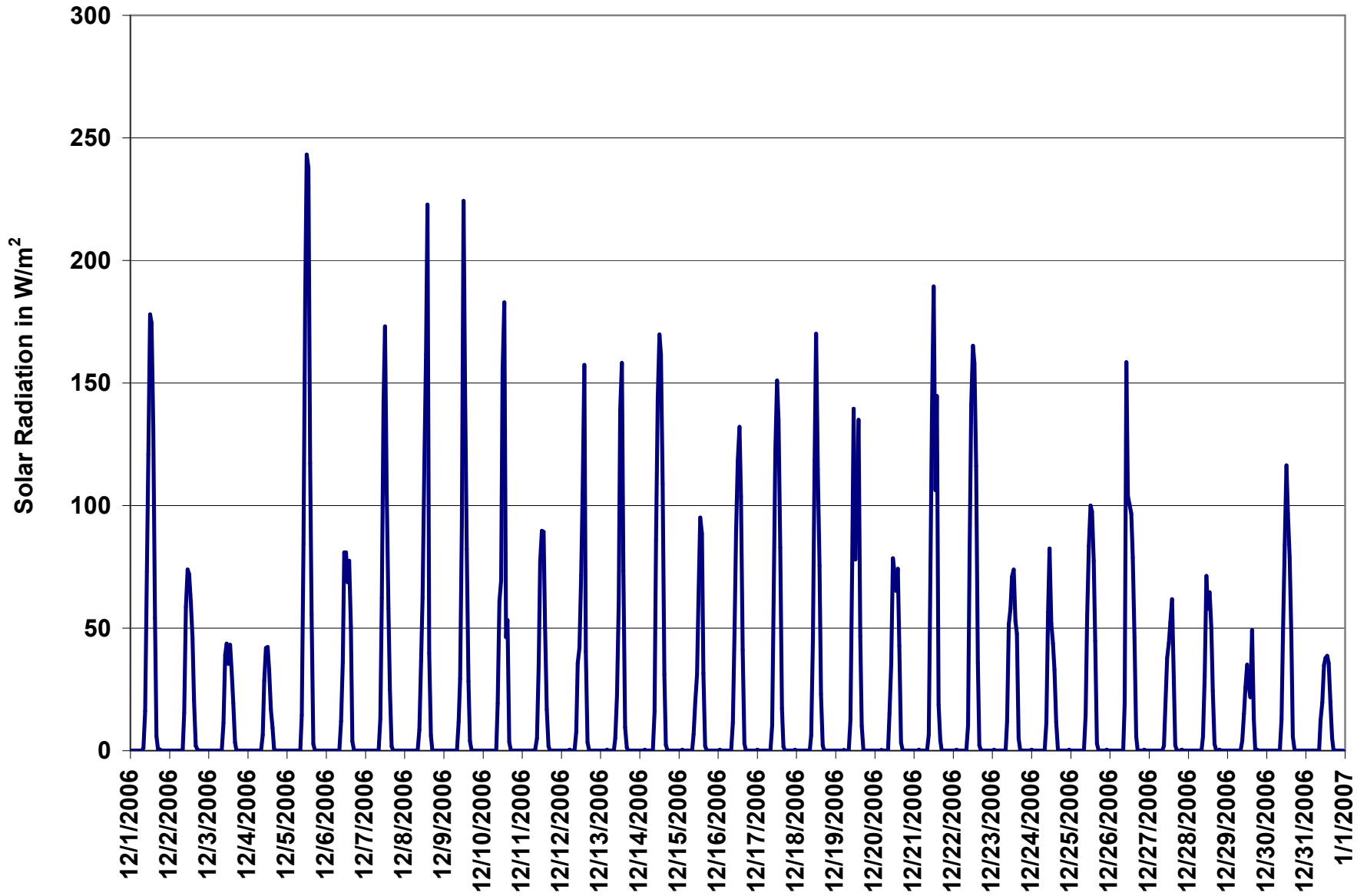


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

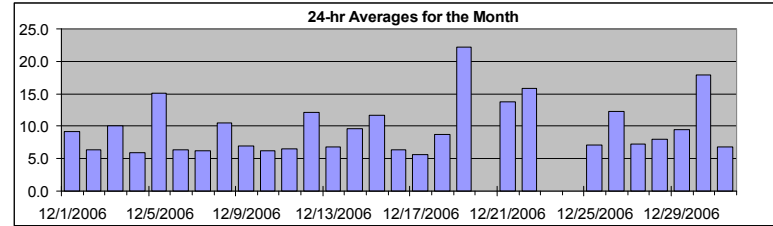
Wind Speed (WSs)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	43.2	km/hr	19-Dec	4:00 5:00
Maximum 24-hr Value:	22.2	km/hr	19-Dec	

Calm Time:	0 hrs	0% calms	Operational Time:	678 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	91.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.7	21.8	11.6	7.3	6.0	5.0	4.4	9.6 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Dec-06	13	10	13	15	13	13	11	10	7	10	12	13	13	11	5	6	5	5	6	7	6	7	6	6	6	9.2	15.3
2-Dec-06	6	7	6	5	5	5	4	6	6	5	7	6	6	5	7	8	6	6	6	7	9	7	8	10	6.4	9.8	
3-Dec-06	13	13	15	14	15	15	14	10	10	10	7	6	8	10	10	9	9	9	11	8	5	6	7	7	10.0	15.1	
4-Dec-06	8	7	6	6	7	6	5	5	6	5	5	6	5	4	6	5	5	5	5	5	7	8	8	7	5.9	8.1	
5-Dec-06	6	14	19	22	22	22	25	19	17	19	17	22	25	24	18	16	10	7	5	6	6	8	7	6	15.1	25.0	
6-Dec-06	6	6	5	5	6	8	7	8	7	8	7	6	5	5	6	8	6	5	6	6	7	6	7	5	6.3	8.2	
7-Dec-06	5	6	6	5	7	7	6	5	6	6	5	8	8	6	6	7	6	6	7	7	6	6	6	5	6.2	7.9	
8-Dec-06	6	5	7	7	14	10	7	8	6	9	11	13	12	16	17	20	15	12	11	11	11	7	6	8	10.4	19.9	
9-Dec-06	8	7	7	6	5	7	5	7	6	6	6	6	7	11	12	9	8	6	8	6	6	6	6	5	7.0	11.9	
10-Dec-06	5	7	7	8	6	6	6	5	5	5	6	5	5	5	7	5	5	6	7	7	8	9	6	5	6.2	9.1	
11-Dec-06	7	6	7	6	5	6	6	5	6	6	5	6	7	7	7	6	8	7	8	9	6	6	7	8	6.5	9.5	
12-Dec-06	8	9	8	6	6	6	6	6	13	19	24	22	21	24	16	9	15	10	9	8	7	N	N	N	12.1	23.7	
13-Dec-06	N	N	N	N	N	2	12	7	8	4	4	7	5	9	9	8	8	7	7	6	7	6	6	8	6.9	12.0	
14-Dec-06	5	6	6	7	7	6	6	5	9	16	19	21	14	8	8	9	11	7	9	8	10	10	11	13	9.7	21.4	
15-Dec-06	12	11	12	14	12	14	13	12	11	8	8	10	9	10	11	9	7	13	17	15	12	13	13	13	11.7	16.6	
16-Dec-06	12	11	9	7	6	5	5	6	6	6	5	5	5	7	8	7	6	5	5	5	5	6	6	6	6.4	11.6	
17-Dec-06	6	6	6	7	5	4	5	5	5	5	6	5	5	5	6	7	6	6	5	6	6	5	6	6	5.6	6.8	
18-Dec-06	5	4	5	5	7	6	6	7	7	9	10	11	10	10	14	9	10	9	8	12	13	11	10	8	8.7	13.7	
19-Dec-06	13	15	22	31	43	42	33	28	27	28	21	15	20	20	22	13	4	3	N	N	N	N	N	N	22.2	43.2	
20-Dec-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
21-Dec-06	N	N	5	8	11	8	9	17	14	11	8	9	19	11	18	14	14	14	13	17	9	26	24	24	13.7	26.1	
22-Dec-06	21	23	25	17	13	13	16	17	14	17	21	26	24	16	19	9	9	5	6	4	N	N	N	N	15.8	26.4	
23-Dec-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7	17	19	18	16	6	5	5	5	N	18.7	
24-Dec-06	8	15	17	19	18	18	N	N	N	N	N	N	N	5	12	14	16	15	12	12	14	12	8	6	N	19.1	
25-Dec-06	7	7	7	7	7	7	5	8	7	8	5	8	6	8	8	10	7	6	6	6	7	7	9	9	7.2	9.6	
26-Dec-06	8	6	6	9	11	13	9	10	12	15	18	17	15	16	16	18	24	15	16	14	9	7	7	6	12.3	23.7	
27-Dec-06	7	7	5	6	7	9	7	8	7	6	8	8	6	7	6	7	7	9	9	8	7	7	6	11	7.3	10.7	
28-Dec-06	14	16	17	16	9	6	6	6	7	6	7	6	7	6	7	6	6	8	7	7	6	7	6	6	8.1	17.2	
29-Dec-06	7	5	7	7	5	6	7	6	7	6	8	10	9	10	6	7	10	10	8	10	22	19	18	18	9.5	21.9	
30-Dec-06	19	22	23	20	20	18	9	7	7	7	17	22	23	27	32	30	30	15	14	14	12	15	14	16	17.9	31.7	
31-Dec-06	11	5	8	7	5	6	7	7	9	7	6	7	7	5	6	6	6	7	8	7	7	7	6	5	6.7	10.7	
1-hr Average	9.1	9.6	10.2	10.5	10.6	10.1	9.2	9.0	9.0	9.5	10.2	10.9	10.9	10.8	11.2	9.9	9.9	8.6	8.8	8.8	8.4	8.8	8.5	8.5			
Hourly Max	21.3	23.1	24.7	30.8	43.2	42.0	33.1	28.5	26.8	27.8	23.7	26.4	25.0	26.7	31.7	30.2	29.5	18.7	18.0	16.7	21.9	26.1	24.2	24.4			

PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

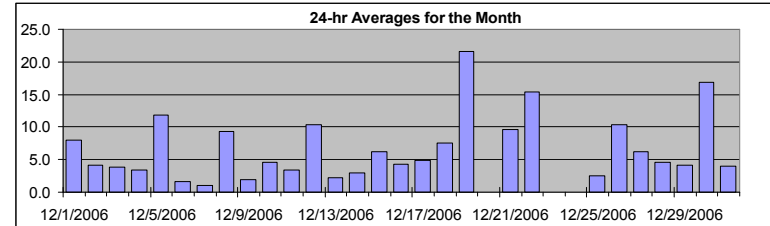
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	43.1	km/hr	19-Dec	4:00 5:00
Maximum 24-hr Value:	21.6	km/hr	19-Dec	



Calm Time:	6 hrs	1% calms	Operational Time:	672 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	91.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.7	21.6	11.4	6.6	4.7	2.3	1.3	23.7 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	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-Dec-06	12	10	12	15	13	13	11	10	7	10	12	12	12	11	5	5	4	4	4	6	5	6	6	6	6	7.9	15.2
2-Dec-06	6	6	5	4	3	4	3	5	3	3	6	5	6	5	5	8	6	6	5	5	8	7	8	10	4.2	9.7	
3-Dec-06	13	13	15	14	15	15	13	10	10	10	7	2	8	10	10	9	9	9	11	7	4	6	6	6	3.8	15.0	
4-Dec-06	7	7	6	6	6	4	3	3	5	4	2	5	5	2	5	5	3	3	4	7	8	8	6	6	3.5	8.1	
5-Dec-06	5	14	19	22	22	22	25	19	17	19	17	22	25	24	17	15	9	6	3	3	4	3	7	7	4	11.8	25.0
6-Dec-06	4	4	5	5	3	7	6	8	7	8	6	5	3	4	6	8	6	1	5	6	7	4	6	calm	1.6	7.8	
7-Dec-06	4	2	calm	2	4	5	1	4	4	4	4	5	8	6	5	6	3	3	4	6	4	4	3	1	1.1	7.5	
8-Dec-06	3	2	6	3	13	10	6	6	5	9	11	13	12	16	17	20	15	11	10	11	9	5	2	7	9.3	19.7	
9-Dec-06	7	6	6	6	3	6	2	5	6	6	5	4	5	11	12	9	8	1	5	4	5	3	5	2	1.9	11.7	
10-Dec-06	2	5	7	7	4	5	4	2	2	calm	5	5	4	3	4	3	5	5	7	6	7	9	6	5	4.6	8.6	
11-Dec-06	6	5	7	5	4	6	5	5	5	2	3	5	6	6	6	5	8	5	7	9	5	5	6	6	3.5	9.1	
12-Dec-06	8	7	7	5	4	5	5	3	11	19	24	22	21	24	15	9	14	10	9	7	5	N	N	N	10.4	23.7	
13-Dec-06	N	N	N	N	N	2	12	7	8	2	4	6	5	9	9	8	8	7	2	2	6	4	1	4	2.3	11.9	
14-Dec-06	1	4	4	4	6	6	4	calm	8	16	19	21	14	7	7	7	3	4	6	10	8	11	13	3.0	21.2		
15-Dec-06	12	10	12	14	12	14	13	12	11	8	8	9	8	10	11	9	7	13	16	15	12	13	12	13	6.3	16.5	
16-Dec-06	11	11	9	7	6	4	4	6	5	5	4	3	5	7	8	7	5	1	4	3	3	3	5	6	4.2	11.4	
17-Dec-06	5	6	6	7	5	3	5	5	3	4	6	5	5	5	6	6	5	5	4	4	5	4	3	3	4.9	6.5	
18-Dec-06	1	2	3	3	7	4	6	6	6	9	10	11	10	9	13	7	8	8	7	12	13	11	10	7	7.5	12.9	
19-Dec-06	13	14	22	31	43	42	33	28	27	28	21	15	20	20	21	12	4	3	N	N	N	N	N	N	21.6	43.1	
20-Dec-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
21-Dec-06	N	N	5	8	10	8	9	17	13	11	8	8	19	11	18	13	14	14	12	17	9	26	24	24	9.6	26.0	
22-Dec-06	21	23	25	17	13	13	16	17	14	17	21	26	24	16	19	9	9	5	5	4	N	N	N	N	15.4	26.4	
23-Dec-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7	16	19	18	14	6	5	5	5	N	18.7	
24-Dec-06	8	15	17	19	18	18	N	N	N	N	N	N	N	5	12	14	16	14	11	12	14	11	8	2	N	19.0	
25-Dec-06	6	7	4	5	5	2	3	7	6	7	2	7	4	7	4	9	6	6	5	3	4	7	9	9	2.4	9.1	
26-Dec-06	8	3	1	8	11	13	6	10	11	15	18	17	14	16	16	18	24	14	15	13	5	6	2	3	10.3	23.7	
27-Dec-06	3	4	5	3	7	7	7	8	7	5	8	8	6	7	5	6	6	8	8	8	7	6	5	10	6.1	10.5	
28-Dec-06	14	16	17	16	8	5	5	6	7	5	7	6	6	calm	4	3	1	7	6	6	2	5	1	2	4.7	17.1	
29-Dec-06	1	2	6	6	4	3	6	5	4	3	8	10	9	10	3	6	10	9	8	9	21	18	17	18	4.2	21.3	
30-Dec-06	19	22	23	20	20	17	8	6	5	4	17	22	22	27	32	30	29	15	14	14	11	14	13	15	16.9	31.6	
31-Dec-06	10	5	7	7	5	5	6	6	7	4	3	7	3	1	2	4	calm	6	4	6	7	2	4	2	3.9	10.2	
1-hr Vector	5.4	5.3	5.7	6.2	6.9	5.9	4.7	4.0	3.8	4.5	5.2	5.7	6.7	6.1	7.2	5.9	5.2	3.6	3.2	3.3	2.7	4.1	3.7	4.3			
Hourly Max	21.2	23.0	24.6	30.5	43.1	41.9	33.0	28.4	26.8	27.6	23.7	26.4	25.0	26.5	31.6	30.1	29.4	18.7	17.9	16.6	21.3	26.0	24.1	24.3			

PASZA - Henry Pirker - Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	349.5	325.1	289.7	244.4	156.9	63.1	16.1	252 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	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-Dec-06	277	286	280	279	284	285	287	282	266	242	242	227	240	251	272	287	355	17	268	328	315	312	308	333	278	W
2-Dec-06	298	309	325	311	286	336	259	313	335	277	294	293	276	271	174	167	159	153	330	321	300	301	290	283	290	WNW
3-Dec-06	289	300	303	298	298	295	296	282	308	306	316	54	112	96	99	87	85	88	97	101	9	349	288	269	324	NW
4-Dec-06	270	290	293	297	307	240	197	285	302	286	151	126	130	49	315	276	304	312	189	190	223	241	250	277	264	W
5-Dec-06	258	251	244	244	243	241	244	248	247	265	260	264	263	278	284	297	13	337	348	103	70	65	17		260	W
6-Dec-06	347	22	63	30	12	75	103	74	77	101	104	106	202	271	271	278	297	347	321	295	286	266	311	235	358	N
7-Dec-06	229	94	93	89	299	329	290	330	298	316	356	108	122	115	66	314	280	239	311	315	332	113	186	137	337	NNW
8-Dec-06	301	301	242	214	240	214	207	233	253	284	218	232	246	238	245	245	242	252	250	271	299	247	254	337	249	WSW
9-Dec-06	287	330	314	313	176	358	255	304	300	319	282	265	51	82	93	88	71	11	290	277	228	235	163	263	317	NW
10-Dec-06	4	280	335	303	310	306	302	292	296	329	164	189	199	226	277	347	286	324	308	310	303	314	324	296	300	WNW
11-Dec-06	301	1	297	312	276	303	304	316	283	334	280	314	282	319	314	288	315	336	56	86	164	156	195	220	303	WNW
12-Dec-06	197	212	240	275	262	260	266	259	235	265	280	275	288	287	265	222	236	237	269	203	123	62	113	96	258	WSW
13-Dec-06	101	309	50	285	55	78	90	110	99	18	349	334	284	263	241	233	225	215	168	300	297	264	213	245	243	WSW
14-Dec-06	141	112	256	325	293	302	323	142	258	237	243	243	274	271	299	271	270	203	89	48	24	103	71	65	266	W
15-Dec-06	47	33	46	51	43	44	40	36	37	28	16	355	316	292	297	313	278	282	292	282	278	270	263	263	339	NNW
16-Dec-06	259	274	282	282	272	213	278	301	299	313	342	330	300	301	278	310	312	134	142	123	113	261	318	309	287	WNW
17-Dec-06	292	314	305	286	322	305	302	312	274	301	312	297	274	275	293	294	292	295	294	298	285	281	338	152	296	WNW
18-Dec-06	350	228	174	108	137	122	139	121	114	118	126	132	120	128	199	166	131	158	137	153	145	125	141	156	140	SE
19-Dec-06	176	223	242	252	240	246	246	243	243	243	244	244	244	248	257	265	238	264	180	149	183	151	103	75	243	WSW
20-Dec-06	161	149	63	91	97	105	91	304	312	293	312	311	302	304	304	305	343	320	315	311	320	11	120	123	N	-
21-Dec-06	91	117	96	96	106	108	140	147	148	157	150	216	248	238	241	230	221	204	229	241	230	235	232	227	209	SSW
22-Dec-06	219	219	221	226	224	230	217	214	224	225	231	237	243	252	257	263	251	256	236	235	175	162	157	107	232	SW
23-Dec-06	96	104	76	357	111	318	295	319	316	296	326	269	237	283	283	256	258	263	255	268	267	231	271	293	N	-
24-Dec-06	258	238	234	241	242	241	259	137	135	146	137	110	93	77	82	89	88	100	91	92	92	93	101	272	N	-
25-Dec-06	278	289	262	240	279	205	154	131	107	140	214	153	126	358	288	249	341	38	155	187	147	110	144	179	189	S
26-Dec-06	192	75	95	182	218	219	215	234	238	242	232	232	251	263	256	244	245	273	249	269	272	280	263	157	241	WSW
27-Dec-06	192	290	148	229	209	242	278	262	302	293	275	288	292	275	248	293	291	290	267	284	273	243	283	236	266	W
28-Dec-06	244	243	242	241	267	249	231	160	150	127	132	154	283	274	267	318	160	309	319	283	349	285	290	127	247	WSW
29-Dec-06	351	299	297	301	297	324	297	312	36	92	75	76	78	85	304	281	279	259	246	221	252	250	229	226	270	W
30-Dec-06	224	212	214	213	211	220	257	235	185	105	215	221	224	235	239	241	239	216	216	206	214	249	249	232	225	SW
31-Dec-06	215	176	166	178	195	234	170	205	205	233	122	149	227	236	171	155	29	275	94	104	117	225	112	61	177	S
Hourly Avg	253	260	251	256	252	254	248	246	249	253	243	238	250	259	257	257	258	260	254	259	260	248	245	241		

PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

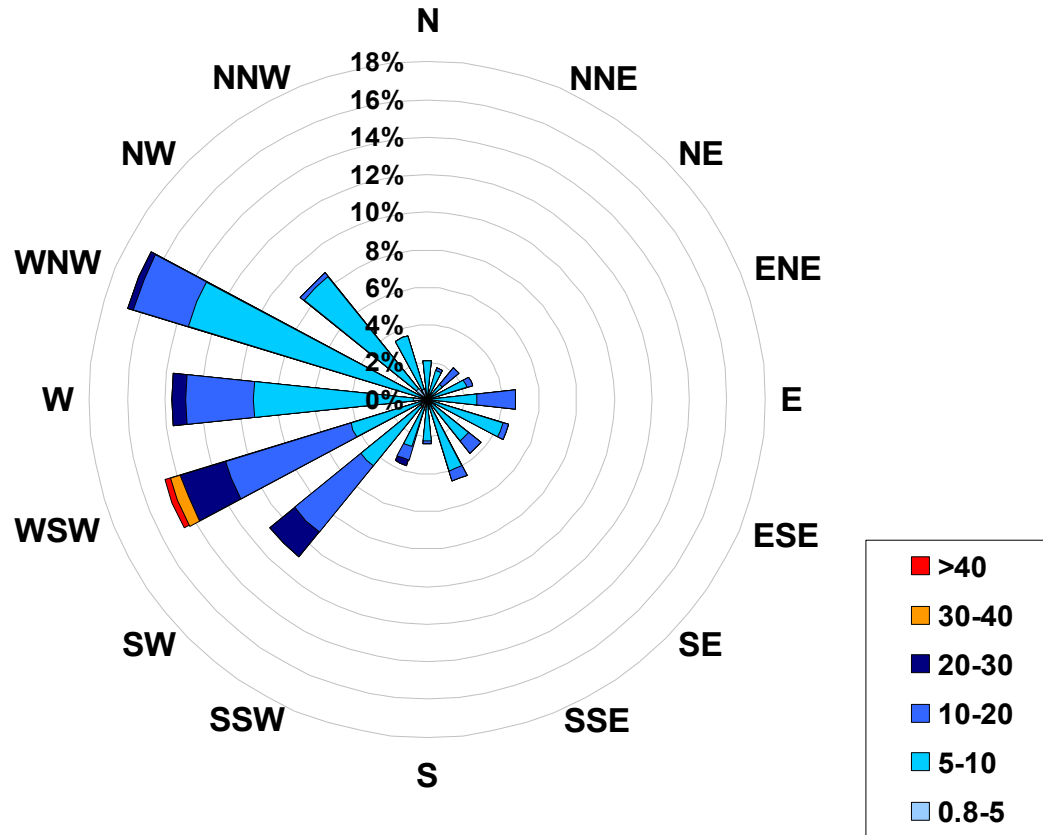
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	68.8	54.0	32.2	16.1	8.1	4.1	3.1

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	
1-Dec-06	5	6	4	3	4	4	5	4	11	7	5	7	7	7	18	27	48	31	39	15	18	14	11	13	48.1
2-Dec-06	14	20	24	24	37	30	45	19	32	33	10	20	9	21	35	7	10	24	28	39	6	11	11	5	45.0
3-Dec-06	4	4	4	4	4	4	7	5	8	6	8	43	12	8	10	8	9	9	8	15	28	18	23	21	43.2
4-Dec-06	14	22	11	16	13	32	49	33	21	33	43	15	14	27	14	10	7	17	33	33	11	7	5	12	49.0
5-Dec-06	25	5	3	3	3	3	3	4	5	5	6	4	3	4	9	5	17	26	55	26	64	14	11	29	63.8
6-Dec-06	20	35	21	17	57	18	25	15	10	11	21	21	47	31	11	8	17	46	34	15	17	52	47	58	57.7
7-Dec-06	43	45	39	50	54	29	39	62	44	42	33	16	13	28	20	16	60	60	45	33	59	36	55	67	66.7
8-Dec-06	38	59	30	49	12	8	28	39	26	13	9	7	8	5	6	6	11	14	16	9	17	27	39	20	58.7
9-Dec-06	14	14	32	11	38	16	51	35	20	11	33	48	24	9	8	21	12	53	49	55	26	30	49	61	61.4
10-Dec-06	35	46	18	14	37	26	53	68	35	54	32	30	35	56	18	33	27	35	17	15	18	10	13	26	68.1
11-Dec-06	20	44	17	49	41	19	18	22	26	52	34	21	17	16	13	30	17	36	15	10	31	31	26	21	51.5
12-Dec-06	19	13	22	36	42	22	32	33	20	8	2	4	4	3	10	11	7	8	9	18	16	18	20	19	41.8
13-Dec-06	24	39	40	32	42	6	6	11	8	37	15	16	12	5	10	13	26	16	81	80	31	25	36	36	81.3
14-Dec-06	71	34	33	31	9	9	38	25	15	7	5	5	8	20	23	22	18	74	47	26	12	30	6	6	73.5
15-Dec-06	11	10	10	9	11	8	9	12	11	21	18	15	13	7	7	11	7	6	4	3	3	6	5	4	21.2
16-Dec-06	6	5	4	12	28	18	41	8	16	11	22	32	14	9	7	8	33	53	18	22	35	59	30	20	59.0
17-Dec-06	17	14	8	8	13	49	15	8	30	50	10	12	13	20	17	13	19	17	37	45	22	20	51	31	50.5
18-Dec-06	44	67	38	52	11	44	29	14	17	12	9	8	9	14	14	21	37	17	21	8	9	9	5	11	66.7
19-Dec-06	7	7	4	5	5	4	4	3	3	4	4	4	5	4	5	11	19	15	23	11	11	20	19	36	36.1
20-Dec-06	36	70	50	37	43	26	52	41	31	53	13	8	45	55	56	64	73	39	42	44	33	46	51	53	72.5
21-Dec-06	31	17	15	6	7	9	11	6	5	6	6	11	6	6	5	11	7	6	9	4	9	4	4	11	31.2
22-Dec-06	5	4	5	5	6	5	5	5	11	5	5	4	4	5	4	8	12	34	22	29	22	20	25	11	33.7
23-Dec-06	5	16	19	49	54	25	18	13	31	35	70	54	21	17	38	11	5	5	4	12	14	8	8	12	70.1
24-Dec-06	9	15	5	7	3	4	47	26	18	14	11	13	14	9	7	6	6	8	13	7	5	6	13	65	65.4
25-Dec-06	22	16	46	35	27	50	48	28	32	13	46	14	38	27	33	25	31	23	33	19	39	11	7	7	49.6
26-Dec-06	7	33	50	9	11	6	50	10	8	11	4	5	8	5	7	5	3	12	6	14	39	41	40	43	50.0
27-Dec-06	31	48	16	19	13	11	8	8	14	16	7	8	17	8	15	48	46	11	7	6	10	25	31	10	48.0
28-Dec-06	5	4	3	4	26	15	27	48	10	18	9	14	23	28	55	46	53	26	23	35	39	39	53	65	65.1
29-Dec-06	36	59	25	26	42	56	32	38	29	39	14	10	18	11	44	23	15	24	20	16	11	6	5	4	59.2
30-Dec-06	5	6	5	4	5	7	36	19	26	23	6	5	6	4	4	4	5	7	9	9	9	12	25	8	36.3
31-Dec-06	9	26	9	8	15	47	16	28	13	26	43	18	60	69	53	51	33	27	56	22	17	37	39	50	69.4
Hourly Max	71	70	50	52	57	56	53	68	44	54	70	54	60	69	56	64	73	74	81	80	64	59	55	67	

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for December 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	33
5	to	10	434
10	to	20	168
20	to	30	37
30	to	40	4
	>	40	2
Total Non-Zero Values			678

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

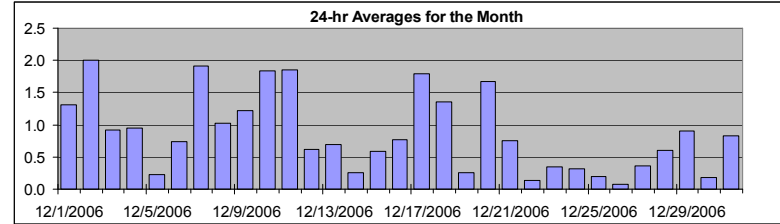
Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 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:	5.8 ppb 8-Dec 22:00 23:00
Maximum 24-hr Average:	2.0 ppb 2-Dec



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.6	1.3	0.6	0.2	0.1	0.0	0.9 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																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Dec-06	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	3	1	2	3	A	1.3	3.1
2-Dec-06	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	3	2	2	A	2	2.0	2.9
3-Dec-06	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	0	0	0	0	0	0	A	1	1	0.9	1.8
4-Dec-06	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	A	1	1	0	0	1.0	1.8
5-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	1	0	0	0	0.2	0.9
6-Dec-06	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	2	1	2	1	1	1	2	1	1	0.7	1.6
7-Dec-06	1	1	1	1	A	1	1	2	2	3	3	3	1	1	1	1	1	2	2	4	3	3	3	3	1.9	3.5
8-Dec-06	4	3	3	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	1.0	5.8	
9-Dec-06	1	1	A	1	1	1	1	1	1	2	2	2	1	0	0	1	2	2	2	1	1	1	1	1	1.2	2.4
10-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	2	2	2	4	3	5	6	3	2	2	2	1	1.8	5.7
11-Dec-06	A	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	A	1.8	3.2
12-Dec-06	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	A	0	0.6	1.3
13-Dec-06	0	0	0	0	1	0	0	0	0	0	0	1	2	1	1	1	1	1	1	1	2	A	1	1	0.7	1.6
14-Dec-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	A	0	0	0.3	0.8
15-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	1	A	1	1	1	1	0.6	2.6
16-Dec-06	0	1	1	1	0	0	0	1	1	2	2	1	2	1	1	1	0	1	A	1	1	1	1	1	0.8	1.8
17-Dec-06	1	2	2	2	1	1	1	1	2	2	2	2	1	1	1	3	2	A	2	2	2	2	2	2	1.8	2.6
18-Dec-06	3	3	2	2	2	2	2	2	1	1	1	1	1	1	0	A	3	2	0	1	0	1	0	0	1.4	3.5
19-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	1	0	0	0	0.3	1.0
20-Dec-06	0	1	1	1	1	0	0	1	1	1	1	3	2	1	A	2	2	2	3	4	4	3	2	3	1.7	3.8
21-Dec-06	3	2	1	1	1	2	1	1	1	1	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0.7	2.7
22-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.3
23-Dec-06	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	0	0	0	0	0	0	0.3	0.8
24-Dec-06	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	1	0	0	1	0	0	0	0	0.3	0.8
25-Dec-06	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0.2	0.7
26-Dec-06	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-Dec-06	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0.4	1.0
28-Dec-06	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	1	1	2	1	1	1	0.6	2.0
29-Dec-06	1	1	1	1	2	A	1	2	2	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0.9	1.6
30-Dec-06	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
31-Dec-06	0	0	0	A	0	0	0	0	0	0	0	1	1	2	1	1	2	4	2	1	1	1	0	0	0.8	3.9
Hourly Avg	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.2	1.2	1.2	1.1	0.9	1.0	0.8	
Hourly Max	3.6	3.5	3.3	2.4	2.3	2.2	2.3	2.1	2.3	2.6	2.7	2.7	2.4	2.3	2.0	4.1	2.9	5.2	5.7	3.8	3.8	3.2	5.8	3.2		

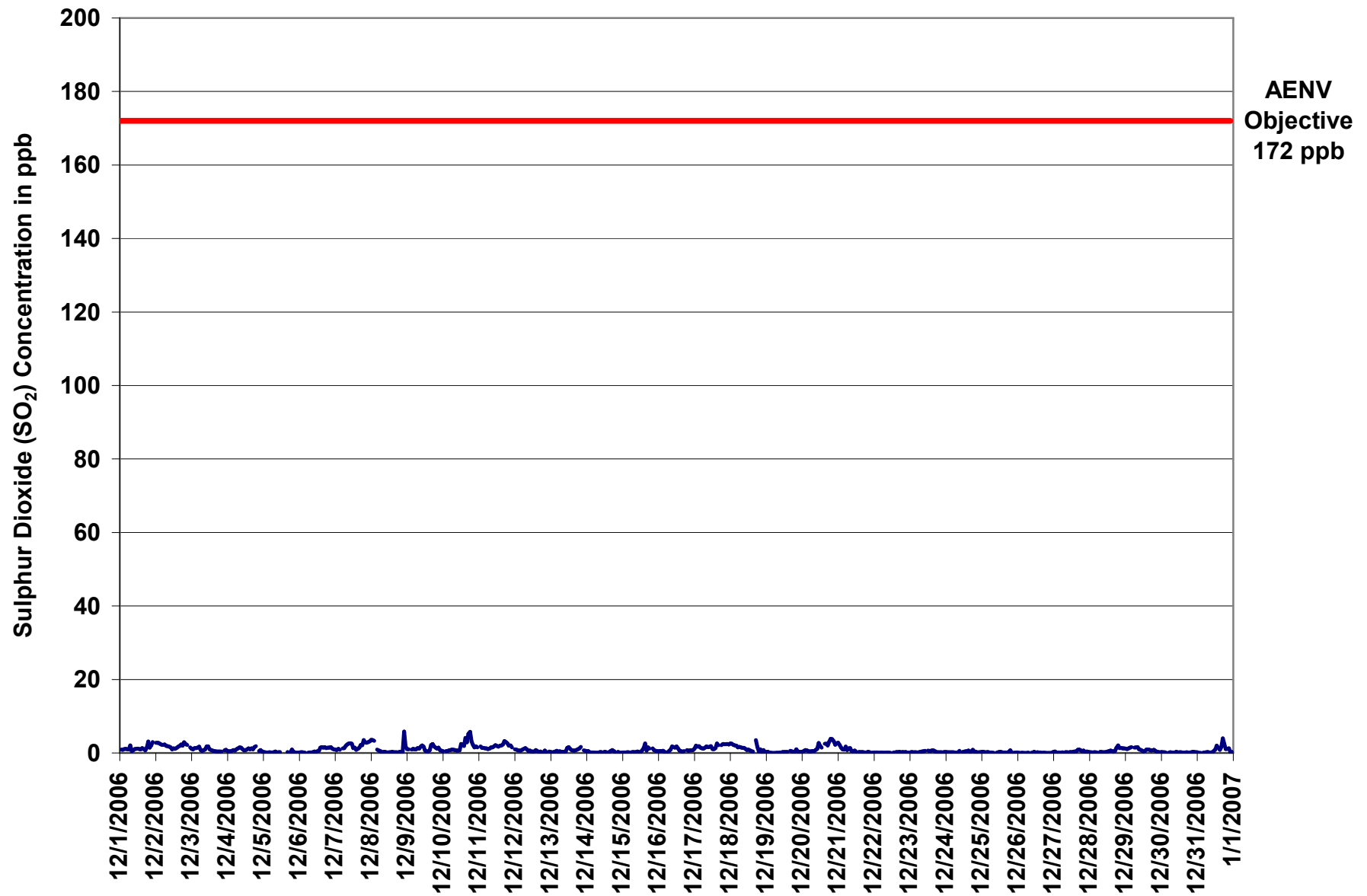


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

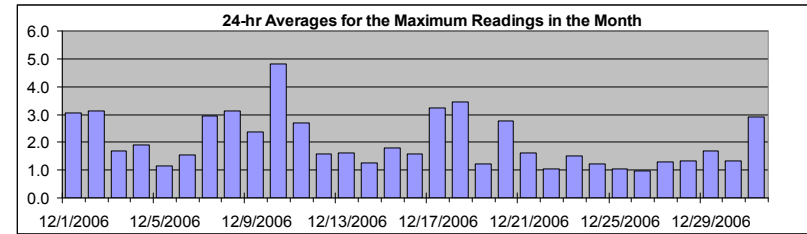
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	28.2	ppb	8-Dec	22:00 23:00
Maximum 24-hr Value:	4.8	ppb	10-Dec	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.8	4.6	2.5	1.4	0.8	0.6	0.5	2.0 ppb	1.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								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-Dec-06	A	1	1	2	2	2	2	7	1	2	2	2	6	3	2	2	2	2	3	13	3	3	5	A	3.0	12.5
2-Dec-06	4	4	4	3	3	3	3	3	3	2	2	2	2	2	8	3	2	3	3	6	3	3	A	2	3.1	7.8
3-Dec-06	2	2	2	2	2	3	2	1	1	1	4	3	2	1	1	1	1	1	1	1	1	A	1	2	1.7	4.1
4-Dec-06	1	1	1	1	1	1	2	3	3	3	2	2	1	2	2	2	3	2	3	3	A	1	4	1	1.9	4.0
5-Dec-06	1	1	1	1	1	1	1	1	2	1	1	1	C	C	C	A	4	0	2	3	1	1	1	1	1.1	3.8
6-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	2	3	2	2	4	3	2	2	1.6	3.7
7-Dec-06	1	2	2	1	A	2	2	3	3	3	4	3	2	3	2	2	3	4	3	4	4	4	4	5	3.0	5.2
8-Dec-06	6	4	4	A	2	1	1	1	1	2	1	1	1	1	3	3	1	1	1	4	1	1	28	4	3.1	28.2
9-Dec-06	2	2	A	1	2	1	2	2	2	3	3	3	1	1	4	4	3	3	4	5	4	2	1	2	2.4	4.8
10-Dec-06	1	A	1	1	1	1	1	2	1	1	1	2	10	16	4	24	5	12	8	4	3	2	5	2	4.8	24.3
11-Dec-06	A	3	2	2	2	2	2	2	4	3	3	3	3	2	3	3	4	4	4	3	3	3	2	A	2.7	4.1
12-Dec-06	2	2	1	1	1	2	2	2	2	1	1	1	1	3	2	2	1	1	1	1	4	1	A	1	1.6	4.3
13-Dec-06	1	1	1	1	1	1	1	1	1	1	1	4	3	2	1	2	1	3	2	2	4	A	2	1	1.6	3.6
14-Dec-06	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	5	2	2	1	A	5	1	1	1.2	5.1
15-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4	2	2	3	A	12	1	1	3	1.8	11.9
16-Dec-06	1	1	1	1	1	1	1	1	1	2	3	3	3	2	1	1	1	2	A	2	1	1	1	1	1.6	3.1
17-Dec-06	3	3	2	2	2	2	2	3	3	2	2	3	2	4	2	13	5	A	3	3	3	3	3	3	3.2	13.3
18-Dec-06	3	3	3	3	3	2	2	2	2	3	3	1	2	1	1	1	A	25	6	1	7	1	2	1	3.5	24.6
19-Dec-06	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	A	2	2	1	1	8	1	1	1	1.2	7.8
20-Dec-06	1	1	2	1	1	1	1	1	1	2	2	5	4	3	A	4	4	4	4	7	5	4	3	3	2.8	6.8
21-Dec-06	4	3	2	2	2	3	1	3	2	1	1	2	2	A	1	1	1	1	1	1	2	1	0	1	1.6	3.5
22-Dec-06	1	1	1	1	1	1	1	1	1	4	1	1	A	1	1	1	1	4	1	1	1	1	1	1	1.0	4.3
23-Dec-06	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	2	6	8	1	1	1	1	1	1	1.5	8.1
24-Dec-06	1	1	1	1	1	1	1	1	1	4	A	1	1	3	1	2	1	2	3	1	1	1	1	1	1.2	4.4
25-Dec-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	3	1	2	3	1	1	1	1	1.0	2.9
26-Dec-06	1	1	1	1	1	1	1	1	1	A	1	1	2	1	2	1	4	1	1	1	1	1	1	1	1.0	3.9
27-Dec-06	1	1	1	1	1	1	1	A	1	1	1	1	1	3	3	1	3	2	2	1	2	1	1	1	1.3	3.5
28-Dec-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	2	2	1.3	2.9
29-Dec-06	2	2	2	3	3	A	2	2	2	2	1	1	1	1	2	2	3	1	1	2	1	1	1	1	1.7	2.9
30-Dec-06	1	1	1	1	A	1	1	1	1	1	10	1	1	1	4	1	1	1	2	1	0	1	1	1	1.3	10.0
31-Dec-06	1	1	1	A	1	1	1	1	1	1	1	2	2	10	8	5	4	10	8	3	2	3	1	1	2.9	10.4
Hourly Avg	1.5	1.5	1.4	1.3	1.3	1.3	1.3	1.6	1.5	1.8	1.8	1.8	2.1	2.6	2.3	3.2	2.5	3.6	2.5	2.7	3.0	1.9	2.7	1.6		
Hourly Max	6.3	4.2	4.2	3.3	2.7	2.8	3.0	7.1	4.0	4.4	10.0	4.8	10.3	16.2	8.1	24.3	6.4	24.6	8.3	12.5	11.9	5.1	28.2	5.2		

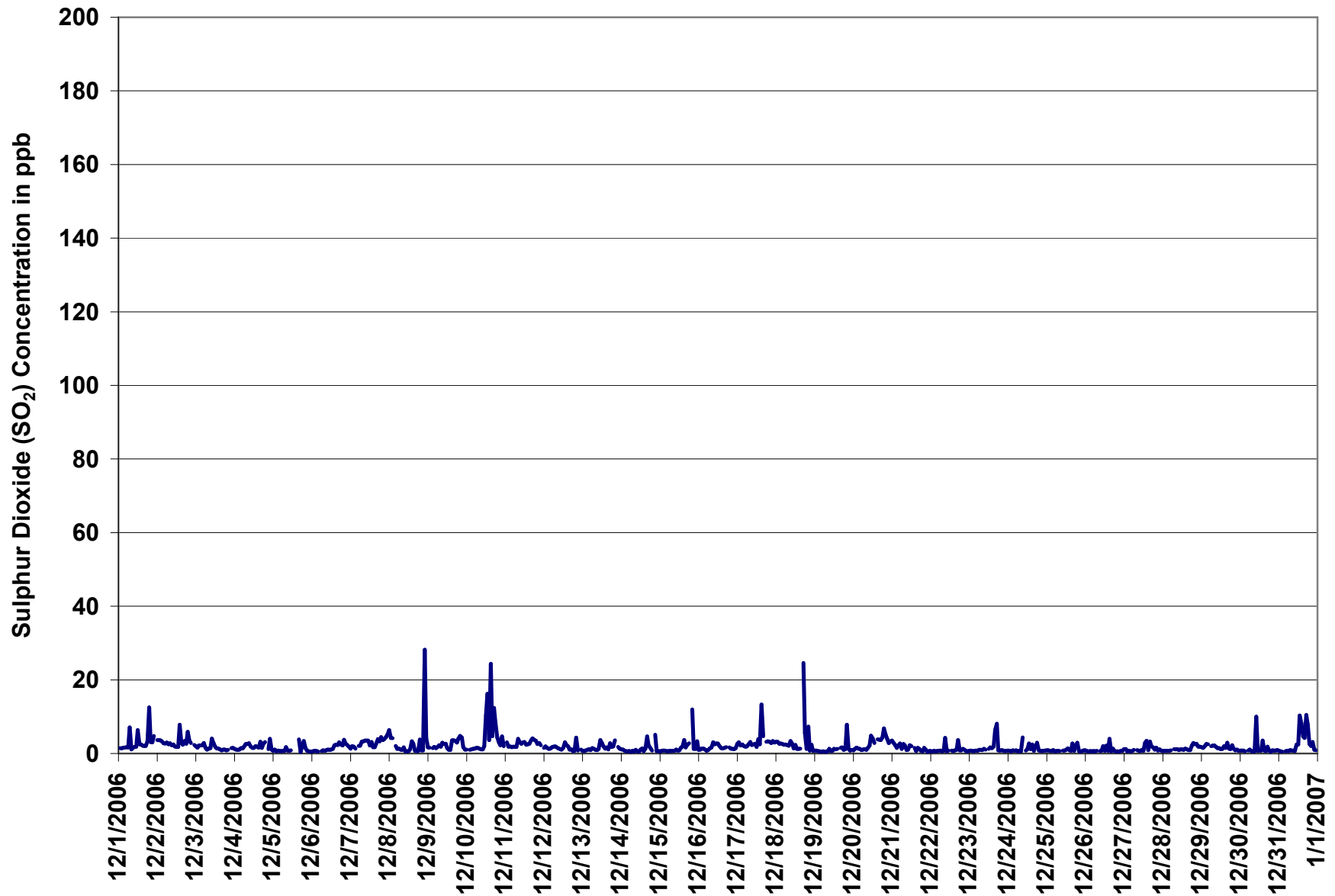
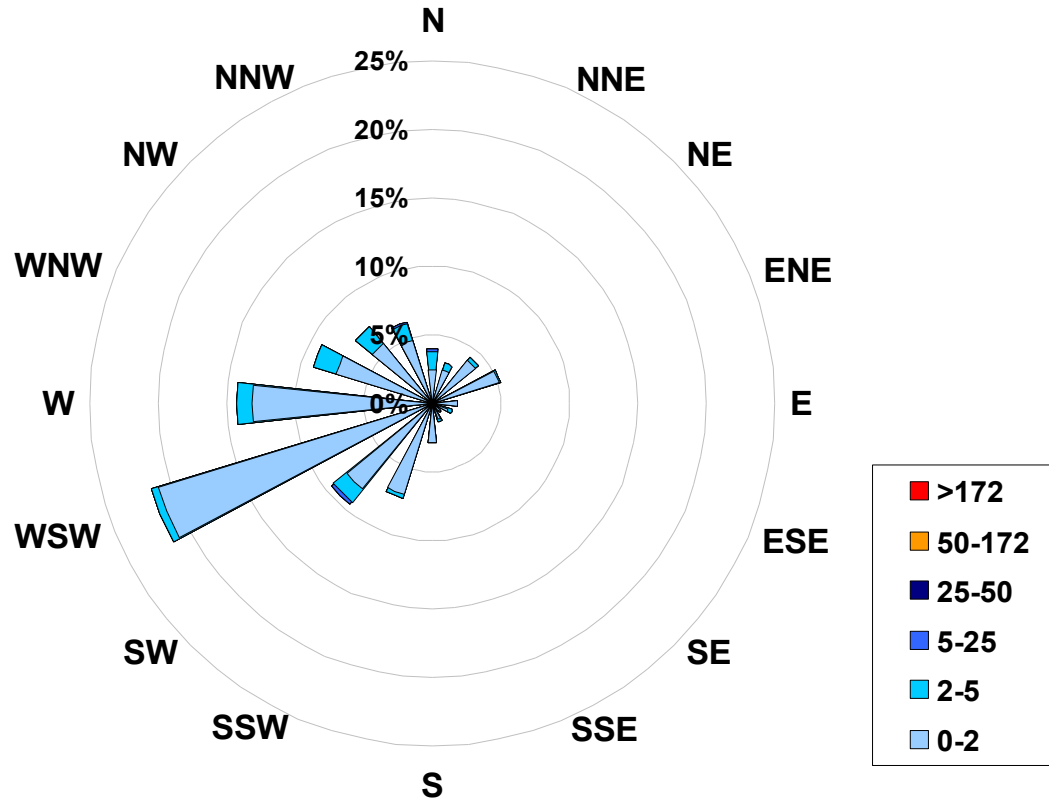


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for December 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	629	
2	to 5	76	
5	to 25	3	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			708

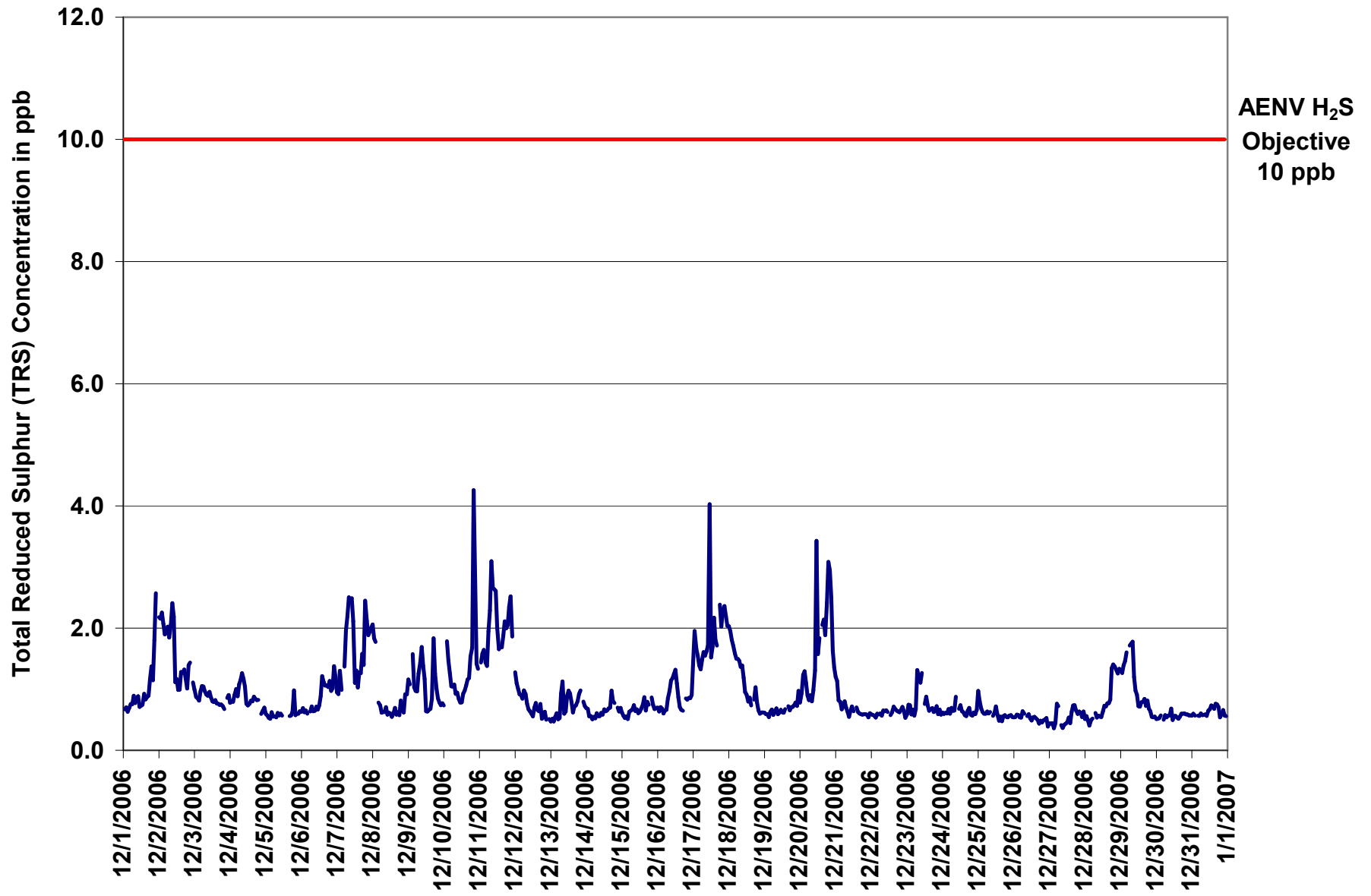


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

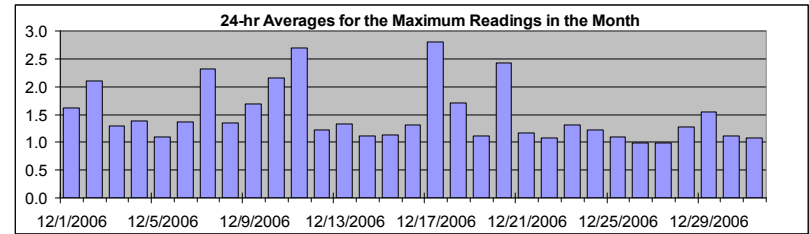
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	7.4	ppb	17-Dec	11:00 12:00
Maximum 24-hr Value:	2.8	ppb	17-Dec	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	2.9	1.6	1.2	1.0	0.9	0.8	1.5 ppb	1.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	3	2	3	4	A	1.6	4.2	
2-Dec-06	3	3	3	2	2	3	2	2	3	3	3	1	2	1	1	2	2	2	2	1	2	2	A	2	2.1	3.2	
3-Dec-06	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1.3	1.6	
4-Dec-06	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	2	1	1	1	A	1	1	1	1.4	1.8	
5-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	3	1	1	1	1	1.1	2.5	
6-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	2	2	1	2	2	1	2	2	1.4	2.1	
7-Dec-06	1	1	2	2	A	2	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3	3	2.3	3.3	
8-Dec-06	3	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1.4	2.6	
9-Dec-06	2	2	A	4	2	1	1	2	2	2	2	2	1	1	1	1	1	3	2	1	1	1	1	1	1.7	3.6	
10-Dec-06	1	A	4	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	6	7	2	2	2	2.2	6.8	
11-Dec-06	A	2	2	3	2	2	2	3	4	3	3	3	3	2	2	2	3	3	2	3	3	3	3	A	2.7	3.8	
12-Dec-06	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	1.7	
13-Dec-06	1	1	1	1	1	1	1	2	3	1	1	1	1	2	1	1	1	1	1	2	2	A	1	1	1.3	2.8	
14-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1	1	1.1	1.5	
15-Dec-06	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	1.4
16-Dec-06	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	A	1	1	1	2	1	1.3	1.8	
17-Dec-06	3	3	2	2	2	2	2	2	2	2	2	7	3	3	3	3	2	A	4	3	3	3	3	2	2.8	7.4	
18-Dec-06	2	2	2	2	2	2	2	2	2	3	2	1	2	1	2	1	A	1	2	1	1	1	1	1	1.7	2.6	
19-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	2	1.1	1.6	
20-Dec-06	1	1	2	2	2	1	1	1	1	1	3	5	3	3	A	2	3	3	5	4	3	2	2	2	2.4	5.4	
21-Dec-06	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.2	1.6	
22-Dec-06	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.1	1.7	
23-Dec-06	1	1	1	1	1	1	1	2	2	2	2	A	1	1	1	1	1	2	1	1	1	1	1	1	1.3	2.1	
24-Dec-06	1	1	1	1	1	1	1	1	1	3	A	1	1	1	1	1	1	1	1	1	1	1	1	3	1.2	3.1	
25-Dec-06	2	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	2.5	
26-Dec-06	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	1.2
27-Dec-06	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	1.0	1.3
28-Dec-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1.3	1.9	
29-Dec-06	2	2	2	2	2	A	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	2.4
30-Dec-06	1	1	1	1	A	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	3.6
31-Dec-06	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	1.3
Hourly Avg	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.6	1.6	1.6	1.6	1.7	1.4	1.4	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.7	1.5	1.4			
Hourly Max	3.2	3.3	3.7	3.6	2.4	2.5	2.6	3.4	3.8	3.2	3.6	7.4	3.5	2.9	3.0	2.6	2.8	3.1	3.9	5.0	6.2	6.8	4.2	2.8			

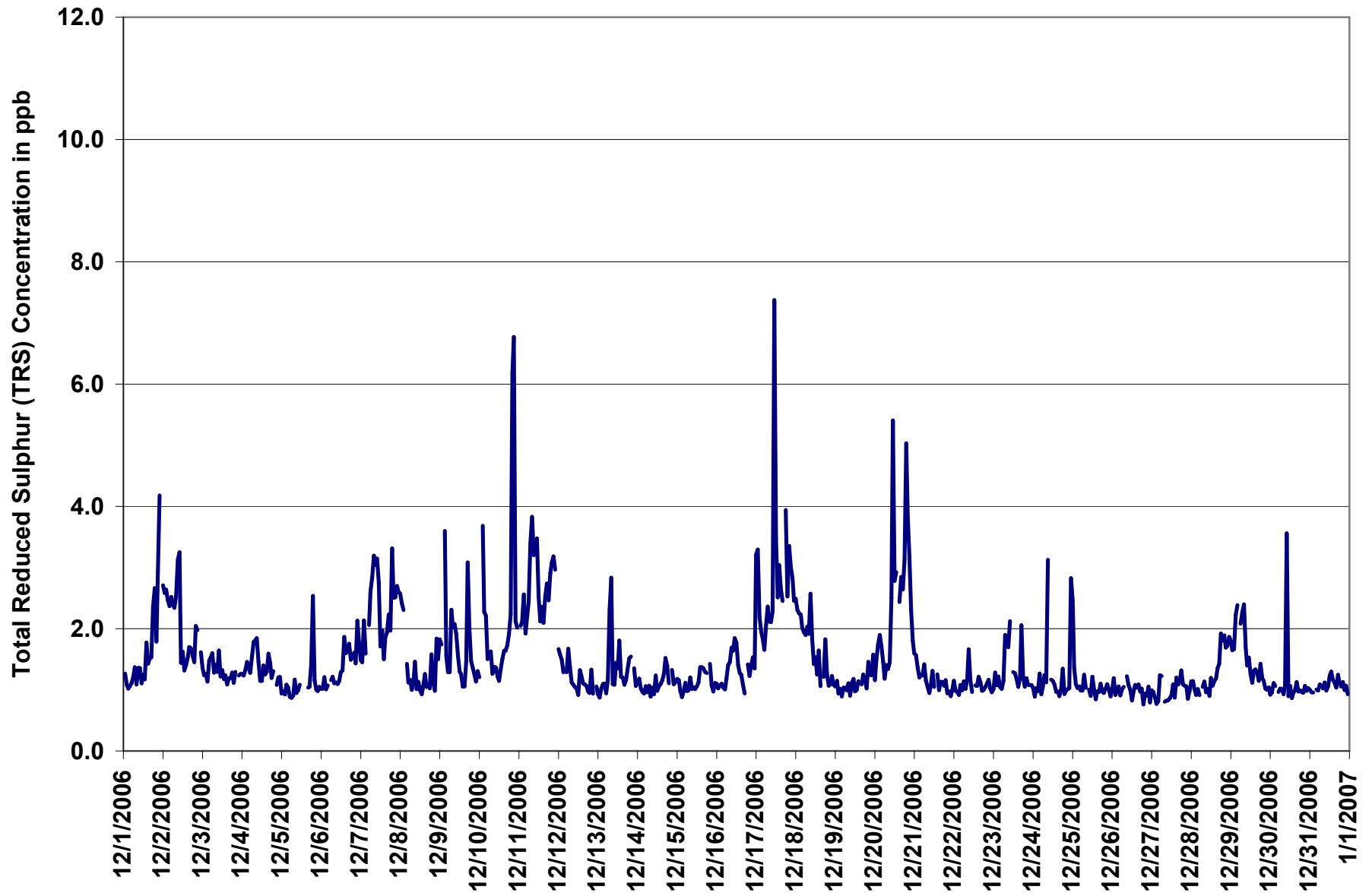
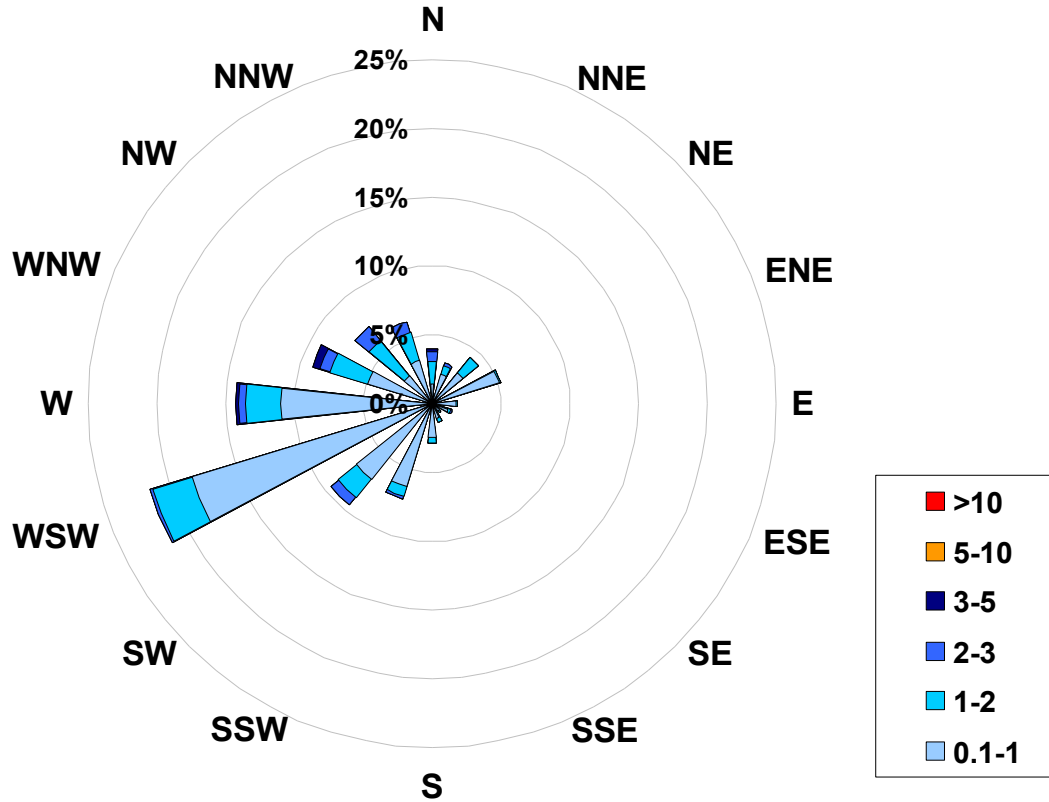


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for December 2006**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1		512
1	to 2		150
2	to 3		41
3	to 5		5
5	to 10		0
	> 10		0
Total Non-Zero Values			708

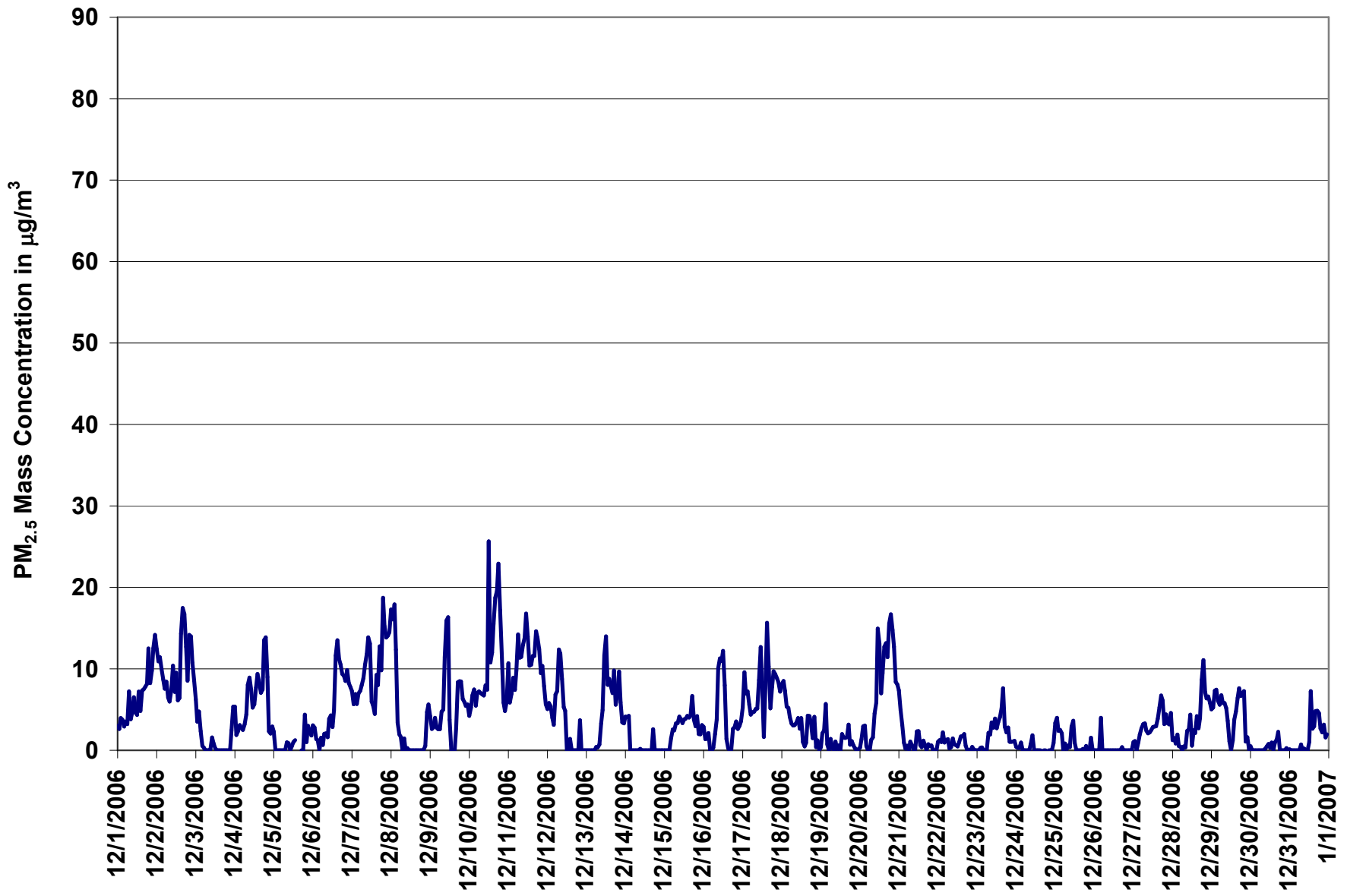


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

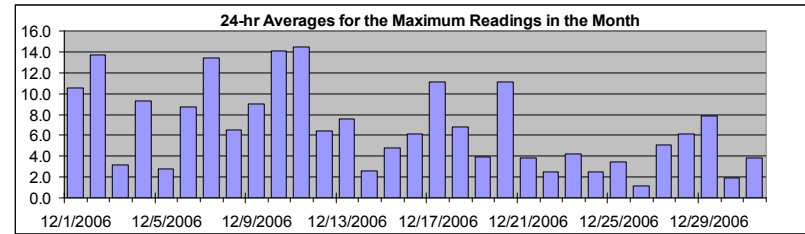
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	38.6	µg/m ³	10-Dec	12:00 13:00
Maximum 24-hr Value:	14.5	µg/m ³	11-Dec	



AIC Time:	0 hrs	Operational Time:	739 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	23.8	17.5	9.6	5.5	2.3	0.4	0.0	6.8	5 µg/m ³
									5.6 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																								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-Dec-06	6	5	6	6	6	6	5	16	6	7	9	7	7	16	11	12	11	12	13	24	12	13	16	18	10.5	24.3
2-Dec-06	16	13	14	13	11	11	12	9	9	12	14	10	13	8	13	21	21	21	18	12	19	16	14	10	13.7	21.0
3-Dec-06	13	6	7	6	2	3	1	1	1	2	4	4	2	3	1	0	1	0	0	2	2	0	7	8	3.2	13.3
4-Dec-06	8	5	5	5	6	5	5	8	12	12	10	8	8	12	11	11	11	9	17	19	15	6	5	7	9.2	18.9
5-Dec-06	6	1	0	1	1	0	1	1	4	3	2	2	5	2	C	C	C	0	2	9	7	5	4	4	2.8	9.0
6-Dec-06	6	5	4	6	2	6	3	4	4	6	6	13	6	7	16	17	13	14	12	12	13	12	11	9	8.7	16.8
7-Dec-06	10	8	9	8	9	11	10	13	13	15	17	16	12	9	12	13	12	17	12	26	17	18	18	17	13.4	25.5
8-Dec-06	22	23	21	16	7	5	4	4	6	3	2	1	0	2	1	2	2	2	2	2	3	15	10	6.5	23.4	
9-Dec-06	8	7	5	7	5	5	5	7	8	18	21	24	13	1	2	2	6	13	11	12	9	8	9	10	9.0	23.5
10-Dec-06	7	7	10	9	8	9	9	9	9	8	10	14	39	16	15	21	21	29	26	21	16	10	6	8	14.1	38.6
11-Dec-06	22	8	9	13	11	14	18	14	15	17	17	19	19	15	13	16	14	17	16	16	14	13	12	7	14.5	21.5
12-Dec-06	8	10	8	6	5	9	10	16	14	14	9	10	1	1	4	2	0	1	0	0	26	0	1	0	6.4	25.7
13-Dec-06	0	1	1	1	4	3	2	2	3	6	7	19	18	13	11	10	10	13	10	10	14	9	7	8	7.6	19.1
14-Dec-06	6	9	14	1	0	1	0	1	1	3	1	1	1	1	3	0	3	5	4	3	1	1	0	0	2.6	13.6
15-Dec-06	0	1	2	2	3	4	4	5	5	6	5	5	6	5	5	6	8	9	5	9	4	4	4	5	4.8	8.8
16-Dec-06	4	3	4	6	2	1	2	4	7	13	16	17	15	13	3	2	1	2	5	7	6	6	5	6	6.2	17.3
17-Dec-06	10	13	9	10	7	7	7	7	7	8	14	16	13	5	14	25	22	8	11	12	12	11	10	10	11.1	24.6
18-Dec-06	10	11	10	8	7	7	5	6	6	8	8	6	7	5	4	3	9	9	6	4	14	2	4	4	6.8	14.0
19-Dec-06	2	5	7	9	10	1	3	2	2	3	1	2	1	5	6	4	6	6	4	5	3	3	2	2	3.9	9.5
20-Dec-06	3	4	7	6	3	3	1	3	5	9	9	24	10	12	16	16	19	19	19	20	17	15	12	10	11.1	23.8
21-Dec-06	10	7	9	3	4	6	4	4	3	3	0	6	6	4	4	3	4	2	4	3	3	0	0	2	3.8	9.8
22-Dec-06	3	3	3	4	2	3	3	2	3	4	2	2	2	2	3	4	4	3	2	1	0	2	1	0	2.5	4.5
23-Dec-06	1	1	2	2	0	1	1	4	6	7	6	7	4	6	6	7	12	6	4	5	5	2	3	3	4.2	12.2
24-Dec-06	2	2	2	4	2	1	1	0	0	6	5	1	3	0	1	2	D	7	6	D	1	1	3	5	2.5	6.6
25-Dec-06	5	6	6	6	4	2	2	2	2	3	7	6	5	1	0	1	2	2	1	3	2	5	6	6	3.5	6.9
26-Dec-06	0	1	0	2	7	3	0	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	2	1.1	7.0
27-Dec-06	3	3	2	2	5	5	5	5	4	5	4	4	5	4	4	6	7	9	9	5	8	5	5	8	5.1	9.5
28-Dec-06	3	4	3	4	3	2	2	3	4	8	5	7	5	7	5	8	5	6	14	13	10	9	9	8	6.1	14.0
29-Dec-06	9	8	10	10	9	8	9	9	10	9	6	4	2	6	6	9	10	13	10	11	12	3	4	3	7.9	13.2
30-Dec-06	3	1	1	0	0	1	1	0	1	2	4	3	3	3	2	3	3	4	1	1	1	1	3	2	1.9	3.9
31-Dec-06	2	0	0	0	0	1	1	2	1	2	2	3	4	14	6	6	7	8	7	5	5	6	3	4	3.9	14.2
Hourly Avg	6.7	5.9	6.2	5.7	4.7	4.7	4.4	5.2	5.6	7.2	7.2	8.4	8.1	6.4	6.5	7.7	8.3	8.6	8.3	9.0	8.8	6.1	6.5	6.3		
Hourly Max	22.3	23.4	21.4	15.6	11.0	13.6	17.7	16.2	14.8	18.4	21.0	23.7	38.6	16.1	15.9	24.6	21.8	28.6	26.4	25.5	25.7	17.9	18.3	18.2		

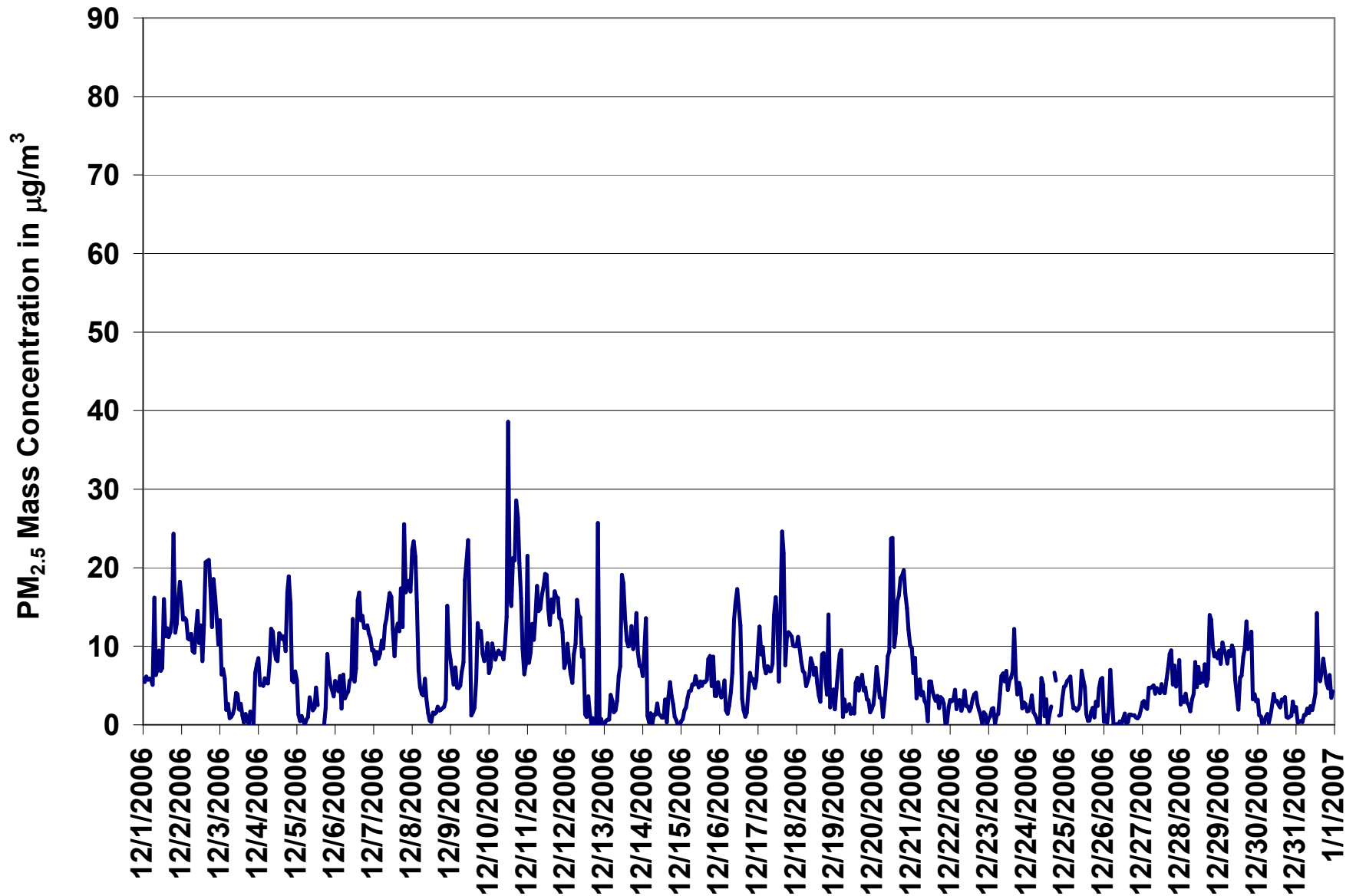
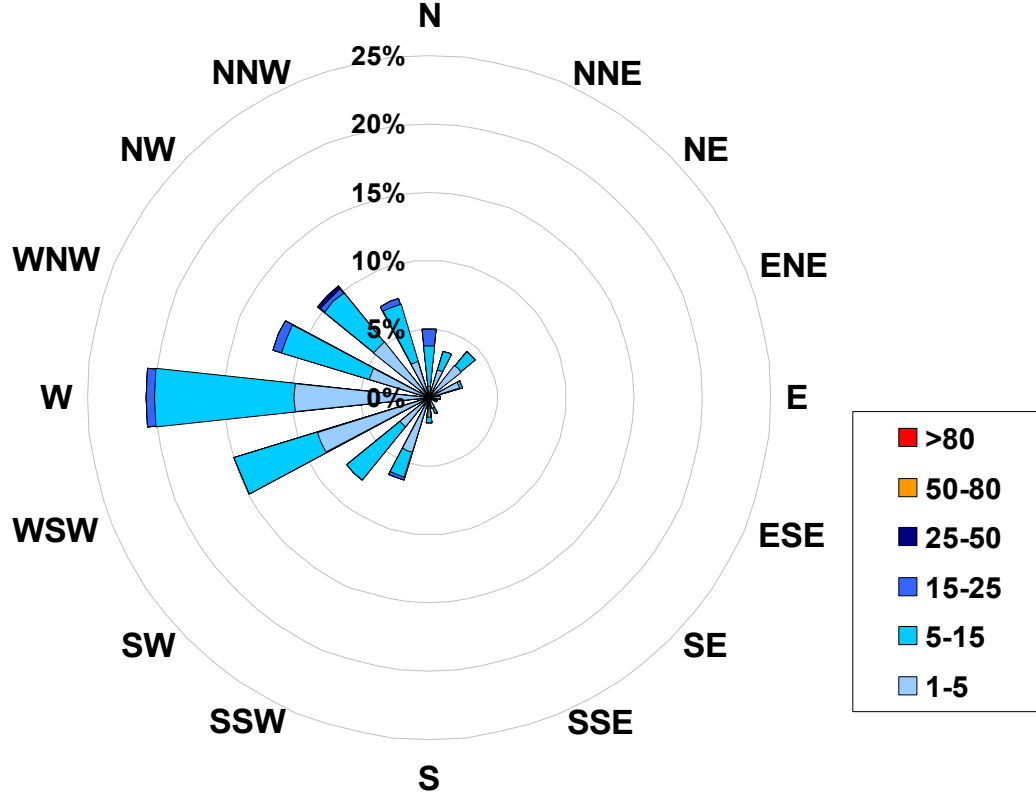


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 December 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	498
5	to	15	222
15	to	25	18
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			739

PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

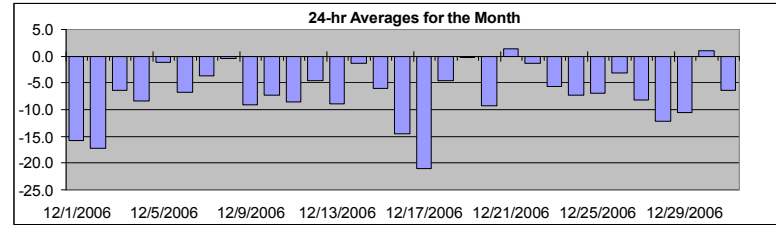
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	7.7 °C	21-Dec	14:00 15:00
Maximum 24-hr Value:	1.4 °C	21-Dec	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	2.6	-2.4	-6.5	-10.5	-18.0	-25.7	-6.9 °C	-6.5 °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	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Dec-06	-15	-14	-13	-13	-13	-13	-13	-13	-16	-17	-17	-16	-13	-11	-11	-11	-11	-14	-17	-19	-21	-22	-23	-24	-24	-24	-15.8	-10.6	
2-Dec-06	-25	-25	-24	-24	-24	-24	-24	-24	-24	-23	-22	-19	-16	-14	-13	-13	-13	-13	-12	-12	-11	-10	-10	-9	-8	-8	-17.2	-8.4	
3-Dec-06	-5	-4	-4	-5	-5	-6	-6	-6	-7	-7	-7	-7	-6	-6	-6	-6	-6	-6	-7	-7	-6	-6	-8	-10	-9	-6.4	-4.0		
4-Dec-06	-9	-10	-11	-12	-13	-13	-13	-14	-14	-13	-12	-11	-9	-7	-6	-6	-5	-5	-5	-5	-5	-5	-3	-3	-3	-3	-8.4	-2.8	
5-Dec-06	-2	0	0	0	1	0	0	0	0	0	1	1	2	2	2	2	2	0	-1	-4	-5	-6	-7	-7	-8	-1.1	2.5		
6-Dec-06	-9	-9	-9	-9	-10	-10	-10	-10	-9	-8	-8	-7	-5	-4	-4	-4	-4	-6	-6	-5	-5	-5	-5	-5	-5	-5	-6.8	-4.1	
7-Dec-06	-6	-6	-7	-7	-6	-6	-6	-6	-6	-6	-6	-5	-2	1	2	0	-1	-1	-2	-2	-2	-4	-4	-4	-5	-3.7	2.2		
8-Dec-06	-5	-5	-6	-5	-2	-3	-1	-1	2	0	1	4	4	4	5	5	4	3	1	0	-1	-4	-5	-6	-6	-0.4	5.5		
9-Dec-06	-7	-9	-10	-11	-13	-14	-15	-15	-15	-14	-13	-9	-5	-3	-3	-4	-4	-6	-7	-7	-7	-7	-8	-8	-8	-9.0	-2.9		
10-Dec-06	-9	-10	-9	-8	-9	-10	-9	-8	-8	-8	-8	-6	-5	-3	-2	-1	-2	-5	-7	-7	-9	-9	-10	-10	-12	-7.3	-1.2		
11-Dec-06	-13	-13	-14	-13	-13	-13	-13	-12	-11	-11	-10	-8	-7	-6	-6	-6	-6	-5	-5	-4	-4	-4	-5	-5	-5	-5	-8.6	-4.1	
12-Dec-06	-7	-6	-7	-7	-8	-8	-8	-7	-5	-1	-1	0	1	2	2	1	0	-1	-4	-6	-8	-10	-11	-12	-12	-4.7	2.0		
13-Dec-06	-13	-14	-14	-14	-13	-11	-9	-9	-8	-7	-6	-5	-4	-4	-4	-5	-6	-6	-8	-9	-10	-11	-12	-12	-12	-9.0	-3.6		
14-Dec-06	-12	-12	-2	2	3	3	2	2	2	2	2	2	2	3	3	3	2	-1	-4	-5	-5	-6	-5	-6	-5	-1.3	3.1		
15-Dec-06	-4	-4	-3	-3	-2	-4	-5	-6	-6	-6	-6	-6	-6	-7	-6	-6	-7	-7	-7	-7	-7	-8	-9	-9	-9	-6.0	-2.3		
16-Dec-06	-9	-9	-9	-10	-12	-15	-17	-18	-18	-18	-17	-17	-13	-11	-8	-6	-7	-12	-16	-18	-19	-20	-21	-22	-23	-14.5	-6.5		
17-Dec-06	-24	-24	-25	-26	-26	-27	-28	-28	-28	-29	-26	-20	-17	-15	-15	-16	-19	-18	-18	-17	-16	-16	-15	-14	-14	-21.1	-13.9		
18-Dec-06	-13	-12	-10	-10	-9	-9	-9	-9	-9	-10	-10	-6	-1	4	5	3	0	-1	-2	1	-1	-2	-4	2	2	-4.6	5.0		
19-Dec-06	3	3	1	3	2	2	2	1	1	1	1	2	2	3	3	3	1	-2	-3	-4	-5	-7	-8	-9	-9	-0.2	3.4		
20-Dec-06	-10	-11	-11	-12	-11	-12	-13	-13	-12	-11	-10	-7	-6	-5	-4	-3	-6	-8	-9	-10	-11	-11	-10	-8	-8	-9.2	-3.5		
21-Dec-06	-8	-9	-8	-8	-7	-1	2	4	5	5	6	7	8	7	8	5	4	3	3	2	2	2	1	0	1	1.4	7.7		
22-Dec-06	0	1	1	0	0	0	-1	-1	-1	-1	-1	0	0	0	0	0	-1	-2	-2	-4	-5	-6	-5	-6	-6	-1.4	0.7		
23-Dec-06	-7	-7	-8	-8	-9	-11	-11	-11	-10	-8	-7	-5	-4	-4	-4	-3	-1	-1	-1	-1	-1	-3	-4	-4	-5	-5.7	-0.6		
24-Dec-06	-6	-5	-3	-3	-4	-5	-8	-11	-14	-14	-14	-10	-9	-8	-7	-7	-7	-7	-5	-6	-6	-6	-5	-5	-6	-7.3	-3.0		
25-Dec-06	-6	-7	-8	-9	-9	-11	-12	-12	-14	-15	-14	-10	-4	1	4	4	2	-4	-5	-7	-8	-8	-9	-3	-3	-6.9	3.5		
26-Dec-06	-2	-8	-11	-13	-6	-2	-3	-3	-2	-2	-1	0	1	1	1	1	0	-1	-2	-2	-2	-5	-6	-8	-8	-3.1	1.5		
27-Dec-06	-10	-11	-12	-12	-12	-11	-12	-11	-9	-9	-8	-7	-6	-5	-4	-4	-4	-4	-5	-5	-5	-7	-10	-10	-7	-8.2	-3.6		
28-Dec-06	-6	-6	-7	-8	-9	-12	-15	-16	-17	-17	-16	-13	-10	-9	-8	-10	-11	-12	-13	-14	-15	-16	-16	-17	-17	-12.1	-5.6		
29-Dec-06	-18	-18	-17	-16	-17	-17	-17	-17	-16	-14	-13	-10	-8	-8	-7	-6	-7	-8	-8	-8	-8	-3	1	1	1	-10.5	1.3		
30-Dec-06	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	2	1	0	0	0	-1	0	-1	1.1	3.0		
31-Dec-06	-3	-5	-7	-6	-7	-9	-9	-8	-7	-7	-6	-5	-4	-3	-3	-3	-4	-5	-7	-7	-6	-7	-9	-10	-9	-6.4	-2.9		
Hourly Avg	-8.3	-8.6	-8.7	-8.6	-8.5	-8.7	-9.0	-9.1	-8.9	-8.5	-7.6	-5.6	-4.1	-2.9	-2.7	-3.1	-4.3	-5.5	-6.2	-6.6	-7.1	-7.6	-8.1	-7.9	-7.9				
Hourly Max	3.2	3.4	1.4	3.4	3.1	3.0	2.3	3.9	4.5	5.1	5.8	6.8	7.7	7.3	7.7	5.5	4.3	3.3	3.0	2.3	2.2	1.7	1.4	2.3	2.3				

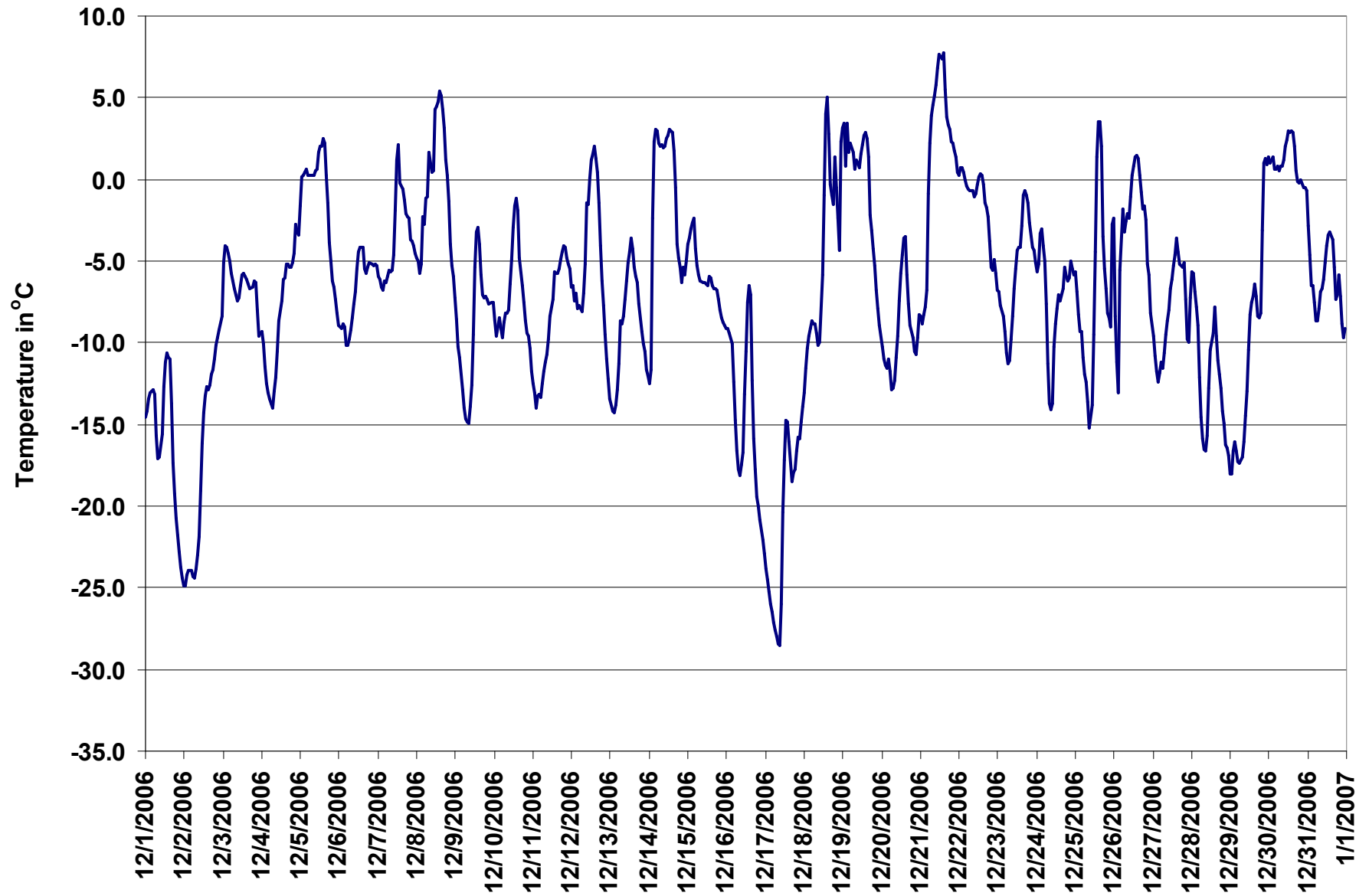


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

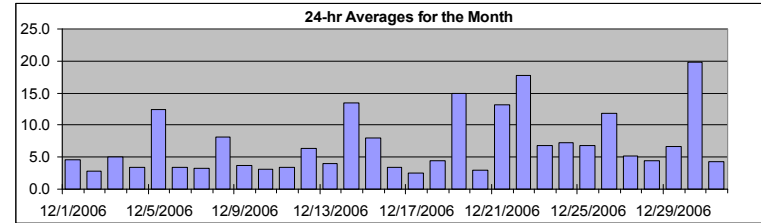
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	36.8	km/hr	19-Dec	4:00 5:00
Maximum 24-hr Value:	19.9	km/hr	30-Dec	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.0	21.5	8.3	4.2	3.1	2.4	2.0	7.0 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
	Hour Start 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-Dec-06	7	6	7	7	6	7	6	4	3	3	4	7	8	7	6	4	2	2	3	3	2	2	2	4.7	8.0	
2-Dec-06	2	2	2	2	2	2	2	2	3	3	3	3	2	2	4	4	3	3	3	3	3	4	3	5	2.8	5.1
3-Dec-06	10	10	4	6	9	8	6	5	6	4	3	4	5	4	5	4	4	4	4	3	3	3	4	5.1	10.2	
4-Dec-06	4	4	4	4	4	4	3	3	4	3	3	4	3	3	3	3	3	3	3	3	4	5	3	3	3.4	4.7
5-Dec-06	9	13	15	17	19	17	17	19	19	20	19	18	19	16	14	10	6	5	3	4	4	7	5	3	12.4	19.8
6-Dec-06	4	4	3	3	4	5	3	3	4	3	3	3	3	3	3	4	3	3	3	3	4	4	4	3	3.4	4.6
7-Dec-06	3	3	3	3	4	5	3	3	4	3	3	3	4	3	5	3	3	3	3	4	3	3	3	3	3.3	4.7
8-Dec-06	3	3	4	5	7	6	8	7	10	5	5	13	13	16	14	16	15	11	7	7	5	4	5	5	8.1	16.0
9-Dec-06	3	3	3	3	4	4	3	3	3	3	4	4	6	6	5	3	3	4	5	4	4	4	4	3	3.7	6.0
10-Dec-06	3	4	3	3	3	3	2	3	3	3	3	4	4	4	3	3	3	3	2	3	3	4	3	2	3.1	4.1
11-Dec-06	3	3	3	3	3	3	3	3	3	3	3	3	4	3	4	3	4	3	3	5	4	4	5	4	3.4	5.0
12-Dec-06	4	5	4	5	4	4	3	5	7	12	10	11	10	10	8	10	12	6	4	3	5	5	3	3	6.3	12.0
13-Dec-06	2	2	3	3	3	6	4	3	3	4	3	3	5	7	7	6	6	4	4	4	4	4	3	4	4.1	7.1
14-Dec-06	4	7	16	18	21	21	17	15	21	23	24	25	20	15	15	9	7	4	6	5	7	5	8	10	13.4	25.3
15-Dec-06	8	8	9	9	9	10	11	10	9	8	7	6	5	7	10	7	5	5	9	9	7	8	8	8	8.0	11.4
16-Dec-06	9	7	5	4	3	3	2	2	3	3	3	3	3	3	4	4	2	2	2	3	3	4	3	2	3.4	8.7
17-Dec-06	3	3	2	3	2	2	2	2	2	2	2	3	3	3	3	4	3	2	3	2	2	2	2	2	2.5	4.0
18-Dec-06	3	2	3	2	3	3	3	3	2	3	3	3	4	6	9	5	5	4	7	7	5	4	7	10	4.5	9.8
19-Dec-06	11	11	8	20	37	31	29	20	26	23	18	19	22	22	20	13	6	4	3	3	3	3	3	3	14.9	36.8
20-Dec-06	2	3	3	3	4	4	3	3	3	2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2.9	3.8
21-Dec-06	3	3	5	5	5	7	10	11	8	11	7	11	18	15	17	17	16	16	18	19	22	23	24	23	13.2	24.1
22-Dec-06	24	30	31	27	22	22	22	21	23	22	24	26	24	23	17	11	13	11	11	5	4	4	6	3	17.8	31.2
23-Dec-06	4	3	4	5	3	3	2	3	4	5	5	5	4	5	5	8	14	14	17	16	8	9	10	10	6.8	16.6
24-Dec-06	11	13	18	18	14	14	5	4	4	5	5	4	5	6	5	5	6	5	6	5	6	4	4	4	7.3	18.3
25-Dec-06	6	4	6	6	7	6	4	4	3	3	3	4	7	13	14	13	11	5	2	7	5	7	9	13	6.8	13.6
26-Dec-06	9	3	3	5	13	14	12	13	14	18	21	22	18	16	16	15	21	11	8	13	8	4	5	4	11.9	22.2
27-Dec-06	4	3	5	4	6	3	3	4	3	4	6	8	10	9	7	5	5	5	7	5	4	3	3	9	5.2	9.6
28-Dec-06	11	12	13	13	7	2	2	2	1	2	2	3	2	3	2	4	3	4	3	4	3	3	3	3	4.5	13.0
29-Dec-06	3	3	3	2	3	3	3	3	3	3	3	4	3	3	5	4	8	9	7	8	15	17	23	20	6.6	23.1
30-Dec-06	25	21	23	18	18	20	16	15	12	12	23	27	29	29	29	33	29	14	13	13	17	14	15	13	19.9	32.6
31-Dec-06	6	4	5	7	4	3	3	5	5	5	3	4	3	3	3	3	5	4	7	6	4	3	4	3	4.3	7.2
1-hr Average	6.5	6.6	7.0	7.5	8.1	7.9	6.9	6.6	7.0	7.2	7.4	8.4	8.7	8.6	8.4	7.8	7.3	5.7	5.8	5.9	5.7	5.5	5.9	6.0		
Hourly Max	24.8	30.2	31.2	27.1	36.8	31.4	29.3	20.7	26.1	22.9	24.3	26.8	29.3	28.6	28.6	32.6	29.3	16.3	17.6	18.8	22.4	22.9	24.1	22.6		

PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

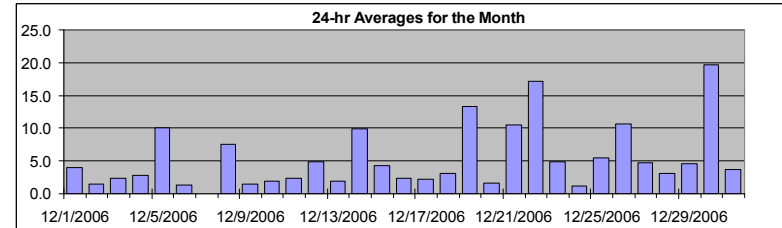
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	36.2	km/hr	19-Dec	4:00 5:00
Maximum 24-hr Value:	19.7	km/hr	30-Dec	



Calm Time:	38 hrs	5% calms	Operational Time:	706 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.1	21.7	8.6	3.5	2.1	1.1	0.9	21.3 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Dec-06	6	6	6	7	6	6	5	3	3	3	7	8	6	5	4	1	1	2	1	2	2	2	2	1	3.9	7.9	
2-Dec-06	2	1	2	2	1	2	2	1	1	2	2	1	2	2	3	4	2	1	2	2	3	4	3	5	1.5	5.0	
3-Dec-06	9	10	3	6	9	8	6	5	5	6	4	1	4	4	4	5	3	3	4	1	3	3	3	3	2.4	10.0	
4-Dec-06	3	3	3	3	4	4	2	2	3	2	2	2	3	2	2	2	3	2	3	4	5	2	2	2	2.8	4.6	
5-Dec-06	9	13	15	17	19	17	17	19	19	20	19	18	19	16	14	10	6	5	1	calm	3	7	5	3	10.0	19.7	
6-Dec-06	3	2	3	2	3	3	2	3	4	calm	2	1	2	2	3	4	3	1	calm	2	4	3	3	3	1.3	4.3	
7-Dec-06	2	1	calm	calm	1	calm	2	2	2	2	1	calm	2	2	4	3	2	1	2	3	calm	calm	calm	1	N	4.4	
8-Dec-06	3	3	3	4	6	5	8	7	10	2	4	13	13	16	14	16	15	11	5	6	3	2	3	4	7.5	15.8	
9-Dec-06	2	2	2	2	calm	calm	1	2	2	3	2	1	6	5	5	2	2	3	3	3	4	3	2	calm	1.5	5.8	
10-Dec-06	1	2	3	3	2	2	2	1	2	calm	3	3	2	2	3	2	3	2	3	3	3	3	3	1	2.0	3.3	
11-Dec-06	3	2	2	2	1	2	3	2	2	1	2	2	3	3	3	2	4	2	1	4	4	2	5	3	2.4	4.6	
12-Dec-06	3	5	3	4	3	4	2	4	6	12	10	11	10	10	8	10	11	6	2	2	5	4	1	1	4.9	11.7	
13-Dec-06	1	1	2	2	1	6	2	2	1	2	3	3	4	7	7	6	6	4	calm	1	3	3	2	3	2.0	7.0	
14-Dec-06	calm	5	16	18	21	21	17	15	21	23	24	25	20	15	14	9	5	1	2	3	5	4	7	10	9.9	25.2	
15-Dec-06	8	8	9	9	8	10	11	10	9	8	7	6	5	7	9	7	4	4	9	8	7	7	8	8	4.3	11.3	
16-Dec-06	9	7	4	3	2	1	2	1	2	3	1	3	3	3	4	4	2	calm	1	calm	1	2	calm	2	2.4	8.7	
17-Dec-06	2	2	1	2	2	2	2	2	1	2	2	2	2	2	3	3	2	2	2	1	1	2	1	calm	2.2	3.4	
18-Dec-06	2	1	2	1	calm	1	2	1	calm	calm	1	1	2	6	8	4	4	3	7	7	5	4	7	10	3.2	9.8	
19-Dec-06	11	11	8	20	36	31	29	20	26	23	17	19	22	21	20	13	6	calm	1	1	1	1	2	calm	13.3	36.2	
20-Dec-06	1	calm	calm	2	3	2	3	2	2	2	1	3	3	2	2	2	calm	2	1	1	1	1	calm	1	3	1.7	3.1
21-Dec-06	1	1	4	5	5	7	10	10	8	11	7	9	18	15	17	17	16	16	18	19	22	23	24	22	10.4	23.9	
22-Dec-06	24	30	31	27	22	22	22	21	23	22	24	26	24	23	17	11	12	11	11	4	3	3	5	3	17.2	31.1	
23-Dec-06	3	3	3	5	2	2	2	3	1	3	calm	5	3	5	4	8	13	14	17	14	7	9	10	10	4.8	16.5	
24-Dec-06	11	12	18	17	14	14	2	3	3	5	2	4	4	6	5	5	6	3	5	5	6	4	4	2	1.1	18.3	
25-Dec-06	6	4	6	5	6	4	2	2	2	1	1	3	7	12	13	13	10	3	calm	7	3	7	9	13	5.4	13.4	
26-Dec-06	9	1	calm	1	13	14	11	13	14	18	21	22	18	16	16	15	21	10	8	13	8	calm	3	3	10.7	22.1	
27-Dec-06	1	calm	3	4	6	3	3	4	3	4	5	8	9	8	7	5	4	5	7	5	4	3	2	9	4.7	9.5	
28-Dec-06	11	12	13	13	7	2	1	1	1	2	1	2	2	calm	2	3	3	3	2	3	2	1	calm	1	3.1	13.0	
29-Dec-06	calm	2	2	1	calm	1	2	1	2	2	2	3	3	1	4	4	7	9	6	8	15	17	23	20	4.6	23.1	
30-Dec-06	25	21	23	18	18	20	16	15	12	12	23	27	29	28	28	32	29	14	13	12	17	13	15	13	19.7	32.4	
31-Dec-06	3	3	5	7	3	2	2	4	5	4	1	4	3	1	2	3	4	3	7	4	2	1	4	1	3.7	7.0	
1-hr Vector	4.1	4.0	4.8	5.0	5.8	5.2	4.2	4.3	4.7	5.2	5.1	6.2	6.5	6.5	6.2	5.8	5.5	3.0	3.3	3.4	3.4	3.1	3.5	3.1			
Hourly Max	24.7	30.0	31.1	27.0	36.2	31.2	29.1	20.6	25.9	22.8	24.2	26.7	29.2	28.3	28.4	32.4	29.2	16.1	17.5	18.7	22.2	22.7	23.9	22.4			

PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

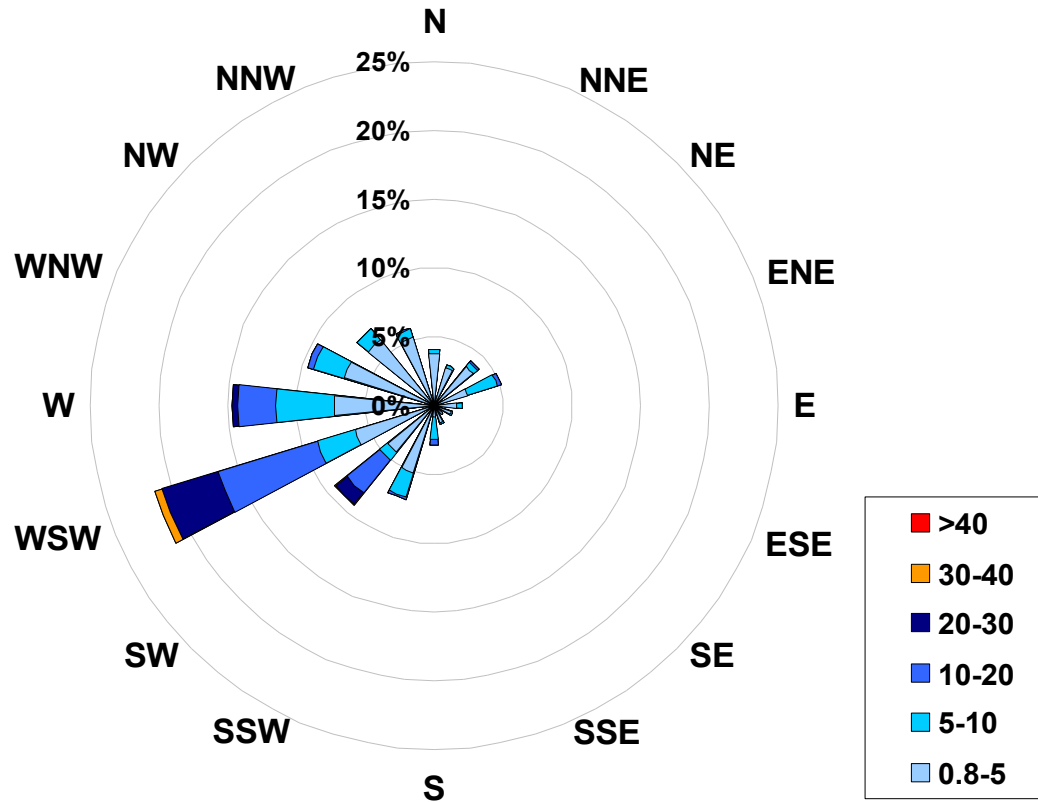
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	69.6	58.8	38.3	21.9	10.0	4.7	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																								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-Dec-06	12	12	11	12	13	15	15	14	34	23	39	6	7	17	16	16	47	59	11	29	33	25	25	39	58.8	
2-Dec-06	28	45	29	15	33	36	26	31	43	37	34	39	39	33	18	10	42	54	43	44	17	17	22	9	53.5	
3-Dec-06	11	9	34	15	10	15	16	19	13	16	16	30	29	21	23	15	21	30	30	63	19	24	23	29	63.3	
4-Dec-06	17	21	21	18	12	17	24	25	25	44	49	41	19	30	24	31	25	10	25	17	12	6	14	23	49.3	
5-Dec-06	8	4	3	4	4	4	4	4	4	4	4	5	5	6	6	12	15	20	49	36	46	12	13	17	48.8	
6-Dec-06	19	47	32	41	16	39	26	20	19	45	29	35	26	39	9	10	22	42	43	21	20	37	43	41	47.5	
7-Dec-06	55	59	76	65	44	56	36	49	60	64	59	54	20	50	19	22	55	62	57	24	52	53	64	45	75.9	
8-Dec-06	27	26	22	31	22	27	10	17	4	24	52	5	4	4	5	9	7	9	20	14	21	53	47	19	53.2	
9-Dec-06	44	26	19	48	35	54	59	42	24	23	48	44	13	22	17	36	30	40	61	26	27	27	30	51	61.0	
10-Dec-06	55	38	34	20	18	55	46	52	41	49	21	21	34	42	43	20	56	15	27	16	19	17	29	43	55.8	
11-Dec-06	31	49	30	26	71	33	29	34	45	34	39	32	24	28	38	35	27	47	70	34	37	56	18	24	70.7	
12-Dec-06	42	19	41	21	46	31	40	37	20	12	7	12	11	15	8	4	4	11	23	57	28	18	58	47	57.6	
13-Dec-06	46	44	25	24	40	9	28	41	43	20	20	25	12	6	9	10	20	23	78	75	32	33	49	34	78.0	
14-Dec-06	36	55	5	6	5	7	6	7	7	5	6	5	7	11	9	10	25	55	49	35	21	19	6	6	55.4	
15-Dec-06	8	8	8	11	14	11	10	9	12	10	15	15	22	13	8	14	21	10	14	13	13	10	10	7	22.2	
16-Dec-06	20	11	12	15	53	38	15	27	16	13	53	25	25	15	16	14	32	62	22	66	39	58	70	40	69.5	
17-Dec-06	30	32	51	22	25	38	13	31	22	23	21	28	28	20	32	20	64	38	31	38	48	38	38	51	63.6	
18-Dec-06	49	58	37	36	46	57	46	47	62	58	79	70	66	15	20	44	38	33	15	20	19	18	13	5	79.1	
19-Dec-06	5	5	10	6	6	6	6	6	5	5	6	6	6	5	4	11	13	29	35	57	44	63	43	33	63.0	
20-Dec-06	48	68	37	62	48	44	37	17	31	33	43	23	27	38	32	40	57	47	60	57	58	65	43	38	67.9	
21-Dec-06	55	62	52	25	24	12	19	18	13	6	8	12	7	7	8	6	7	7	6	5	7	6	7	5	61.9	
22-Dec-06	14	5	5	5	5	5	5	5	5	5	6	6	6	7	5	6	8	9	10	11	23	33	23	14	32	33.2
23-Dec-06	22	27	21	15	35	47	14	20	58	56	83	29	37	17	30	16	6	6	4	17	11	4	4	3	83.0	
24-Dec-06	4	15	4	4	5	6	21	39	50	20	23	16	21	10	13	12	23	48	32	23	7	24	17	17	50.3	
25-Dec-06	10	20	17	19	15	40	39	36	47	45	50	26	8	6	9	8	26	65	68	21	59	7	9	3	68.4	
26-Dec-06	11	49	58	48	6	5	6	4	4	3	4	5	5	5	5	6	4	12	10	5	11	42	43	32	57.6	
27-Dec-06	26	37	29	9	7	13	10	11	22	19	11	8	7	8	11	21	24	18	6	9	8	19	17	5	37.4	
28-Dec-06	7	8	5	4	8	36	38	26	34	7	31	22	34	41	47	22	29	21	51	32	35	46	68	55	68.3	
29-Dec-06	52	60	34	52	64	44	57	51	27	33	25	34	35	62	20	39	12	15	26	16	7	4	5	5	64.3	
30-Dec-06	6	5	5	4	4	5	6	7	7	11	6	6	6	7	29	6	5	5	5	6	4	7	5	5	29.4	
31-Dec-06	30	48	7	4	38	33	39	19	11	16	61	18	33	32	40	39	36	39	32	37	59	56	43	51	60.5	
Hourly Max	55	68	76	65	71	57	59	52	62	64	83	70	66	62	47	44	64	65	78	75	59	65	70	55		

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for December 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	445
5	to	10	142
10	to	20	110
20	to	30	42
30	to	40	5
	>	40	0
Total Non-Zero Values			744

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)

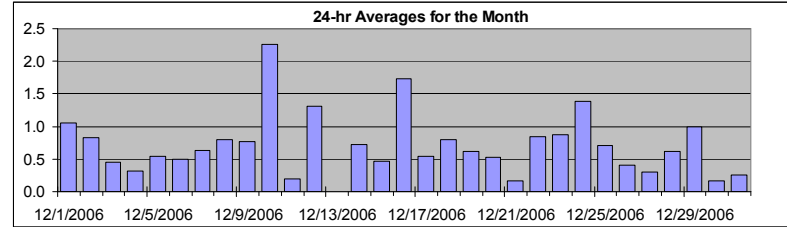
Monitoring Dates: December 1, 2006 to January 1, 2007

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:	8.8 ppb 16-Dec 3:00 4:00
Maximum 24-hr Average:	2.3 ppb 10-Dec

AIC Time:	34 hrs	Operational Time:	699 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.4	2.2	0.9	0.5	0.2	0.0	0.0	0.7 ppb	0.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Dec-06	0	0	0	0	A	1	1	1	1	1	2	1	1	2	2	2	1	1	1	1	1	1	1	1	1.0	2.1	
2-Dec-06	1	1	1	1	1	A	1	0	0	1	0	1	1	0	0	1	1	1	1	2	2	2	1	1	0.8	1.9	
3-Dec-06	1	1	1	1	A	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3	
4-Dec-06	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0.3	0.7	
5-Dec-06	1	0	A	3	3	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.1	
6-Dec-06	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	2	2	1	1	0.5	1.8	
7-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	A	0.6	1.2	
8-Dec-06	1	1	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	A	1	0.8	3.3	
9-Dec-06	3	1	2	2	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	1	A	1	0	0.8	2.6	
10-Dec-06	1	1	1	1	1	0	0	1	0	0	1	1	1	0	4	5	6	8	7	8	A	5	2	2	2.3	8.0	
11-Dec-06	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0.2	0.9	
12-Dec-06	0	0	1	1	1	1	1	5	3	1	1	1	2	1	1	3	2	1	A	0	0	0	1	1	1.3	5.4	
13-Dec-06	1	1	1	0	1	1	1	1	2	2	1	2	P	N	N	N	N	N	N	A	3	6	2	1	N	6.2	
14-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	2	A	0	0	0	0	0	0.7	1.6	
15-Dec-06	0	1	1	0	0	0	1	1	1	1	0	1	0	1	0	0	1	A	0	1	1	0	1	1	0.5	0.9	
16-Dec-06	1	2	4	9	3	1	1	2	1	1	1	1	1	1	2	2	A	1	1	1	1	0	1	1	1.7	8.8	
17-Dec-06	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	A	0	1	1	1	1	1	1	0	0.5	1.3	
18-Dec-06	1	1	1	1	1	1	1	0	1	1	2	2	1	1	A	0	1	1	1	1	1	0	0	1	0.8	1.8	
19-Dec-06	0	1	1	1	0	1	1	0	0	0	0	0	0	A	1	1	3	1	0	0	0	0	0	0	0.6	3.1	
20-Dec-06	0	0	0	0	1	1	1	1	1	0	0	0	A	0	0	0	1	1	1	0	0	C	C	C	0.5	1.3	
21-Dec-06	A	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
22-Dec-06	0	0	0	0	A	0	0	0	0	0	0	3	2	3	1	2	4	0	0	1	1	1	0	0	0.8	4.5	
23-Dec-06	0	0	0	A	0	0	0	0	0	0	1	2	1	1	1	2	0	2	1	0	0	1	2	3	0.9	3.0	
24-Dec-06	5	1	A	4	3	6	3	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	1.4	5.7	
25-Dec-06	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	0	0	1	1	0.7	1.3	
26-Dec-06	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	A	0.4	1.3	
27-Dec-06	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0.3	0.9
28-Dec-06	1	1	1	1	1	0	0	0	0	1	0	1	1	0	0	2	2	1	1	0	1	A	1	0	0.6	1.8	
29-Dec-06	1	1	2	2	1	0	0	0	0	0	0	0	1	1	1	2	2	1	2	2	A	0	4	0	1.0	3.6	
30-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0	0	0.2	0.6	
31-Dec-06	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.1	
Hourly Avg	0.8	0.7	0.8	1.2	0.9	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.6	0.7	0.9	1.0	0.9	0.8	0.8	0.6	0.8	0.8	0.6			
Hourly Max	4.6	1.8	4.3	8.8	3.2	5.7	2.6	5.4	3.0	1.6	2.1	3.1	2.2	3.0	3.7	5.4	5.5	7.7	7.1	8.0	2.8	6.2	3.6	3.0			

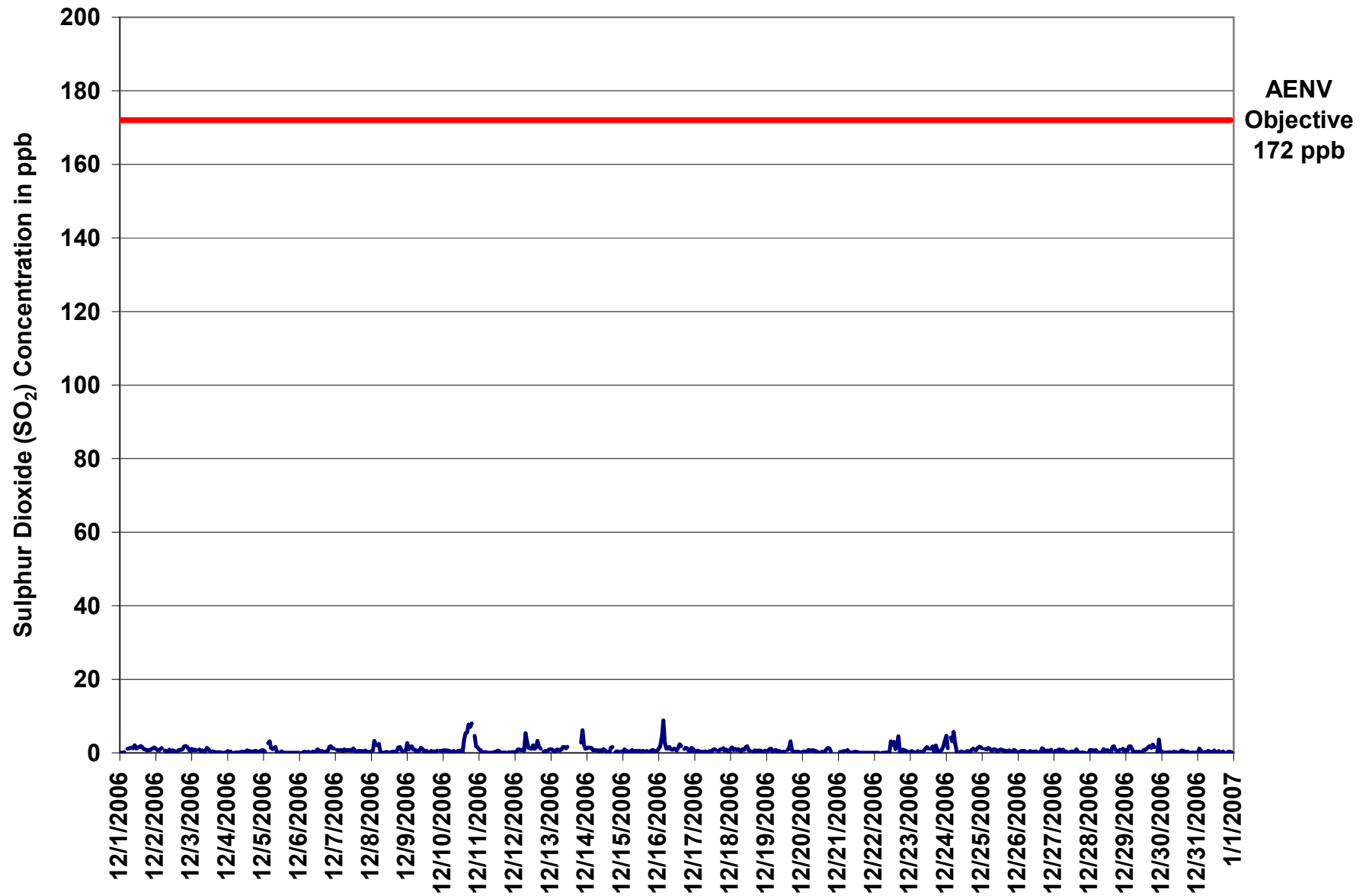


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

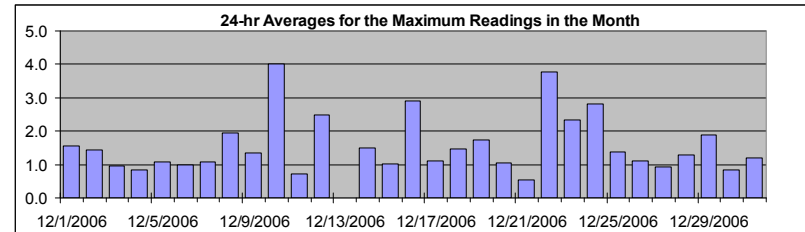
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	14.4	ppb	10-Dec	15:00 16:00
Maximum 24-hr Value:	4.0	ppb	10-Dec	



AIC Time:	34 hrs	Operational Time:	699 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.7	4.9	1.6	1.1	0.7	0.3	0.0	1.6 ppb	1.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Dec-06	0	0	0	1	A	2	2	2	2	2	3	2	2	3	3	3	2	1	1	1	1	2	2	2	1.6	3.0
2-Dec-06	2	1	1	2	2	A	1	1	1	2	1	1	1	1	1	1	2	1	2	2	3	2	1	1	1.4	2.6
3-Dec-06	2	1	1	1	A	1	1	1	1	1	2	2	1	1	1	1	1	0	1	0	0	0	1	0.9	2.1	
4-Dec-06	1	1	1	A	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
5-Dec-06	1	1	A	4	4	2	1	2	3	3	0	0	2	1	0	1	1	0	0	0	0	0	0	0	1.1	3.8
6-Dec-06	0	A	0	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1.0	2.9
7-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1.1	1.7
8-Dec-06	1	1	8	9	3	6	1	1	0	1	1	0	0	1	1	0	1	0	1	2	3	1	A	1	1.9	9.4
9-Dec-06	4	2	2	2	2	1	1	1	1	2	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1.3	4.3
10-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	14	8	10	11	9	A	8	2	3	4.0	14.4
11-Dec-06	2	1	1	0	1	0	0	0	0	0	1	1	1	2	1	1	0	1	1	A	1	0	1	1	0.7	2.3
12-Dec-06	1	1	1	1	1	1	2	9	6	2	3	2	4	2	3	5	3	3	A	1	1	1	1	1	2.5	9.2
13-Dec-06	1	1	1	1	1	1	1	1	2	3	2	2	P	N	N	N	N	N	N	A	6	9	4	2	N	9.5
14-Dec-06	2	2	2	2	1	2	1	1	1	1	1	2	1	1	1	1	4	5	A	1	1	1	1	1	1.5	4.9
15-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1	1	2	1.0	1.6
16-Dec-06	2	6	7	10	8	2	2	3	2	1	3	1	2	4	3	A	1	2	2	2	1	1	2	2	2.9	10.3
17-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	2	2	2	1	1	1	1	1.1	1.9
18-Dec-06	2	2	2	2	1	1	1	1	1	2	3	3	1	1	A	1	1	1	3	1	1	1	1	1	1.5	3.0
19-Dec-06	1	1	2	2	1	1	2	1	1	1	1	1	3	A	2	3	9	3	1	1	1	1	1	1	1.7	9.2
20-Dec-06	1	1	0	1	1	1	1	1	1	0	1	A	1	1	1	2	2	2	2	1	C	C	C	C	1.0	1.8
21-Dec-06	A	1	1	1	1	A	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.0
22-Dec-06	0	0	0	0	A	0	0	0	1	0	0	13	4	5	4	10	14	14	1	3	7	7	1	1	3.8	13.8
23-Dec-06	1	1	1	A	1	1	1	1	1	1	2	2	2	2	2	5	1	5	2	1	3	3	7	11	2.3	10.7
24-Dec-06	9	3	A	11	6	11	6	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2.8	10.8
25-Dec-06	2	A	2	2	2	2	1	1	2	2	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1.4	2.4
26-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	3	2	0	3	1	1	1	1	A	1.1	2.9
27-Dec-06	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	0.9	1.9
28-Dec-06	1	1	1	2	1	1	0	0	0	2	1	2	1	1	1	3	3	1	1	1	1	A	2	1	1.3	3.3
29-Dec-06	2	1	4	3	2	1	0	1	1	1	0	1	1	2	2	2	2	2	3	3	A	1	7	1	1.9	7.1
30-Dec-06	1	1	0	1	0	1	1	0	1	1	1	0	2	2	1	1	1	1	1	A	1	1	0	1	0.8	1.9
31-Dec-06	0	5	4	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	0	1.2	4.7
Hourly Avg	1.5	1.4	1.7	2.3	1.7	1.6	1.2	1.2	1.2	1.1	1.2	1.5	1.4	1.3	1.8	2.3	2.3	2.2	1.5	1.5	1.6	1.8	1.6	1.4		
Hourly Max	9.1	5.6	7.9	10.8	7.7	10.8	5.9	9.2	6.3	2.8	3.0	13.1	4.2	4.9	13.3	14.4	13.7	13.8	10.6	9.2	7.1	9.5	7.1	10.7		

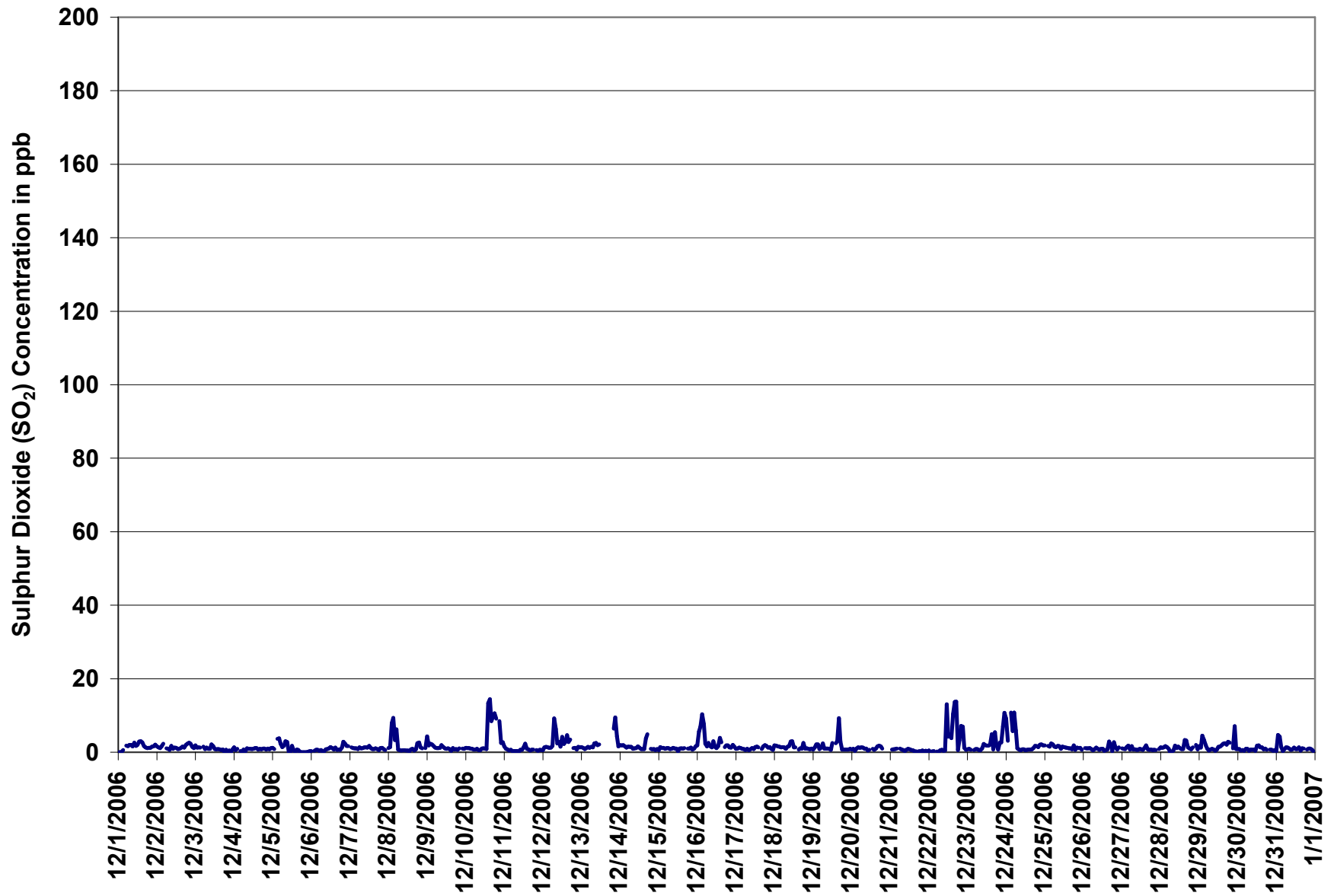
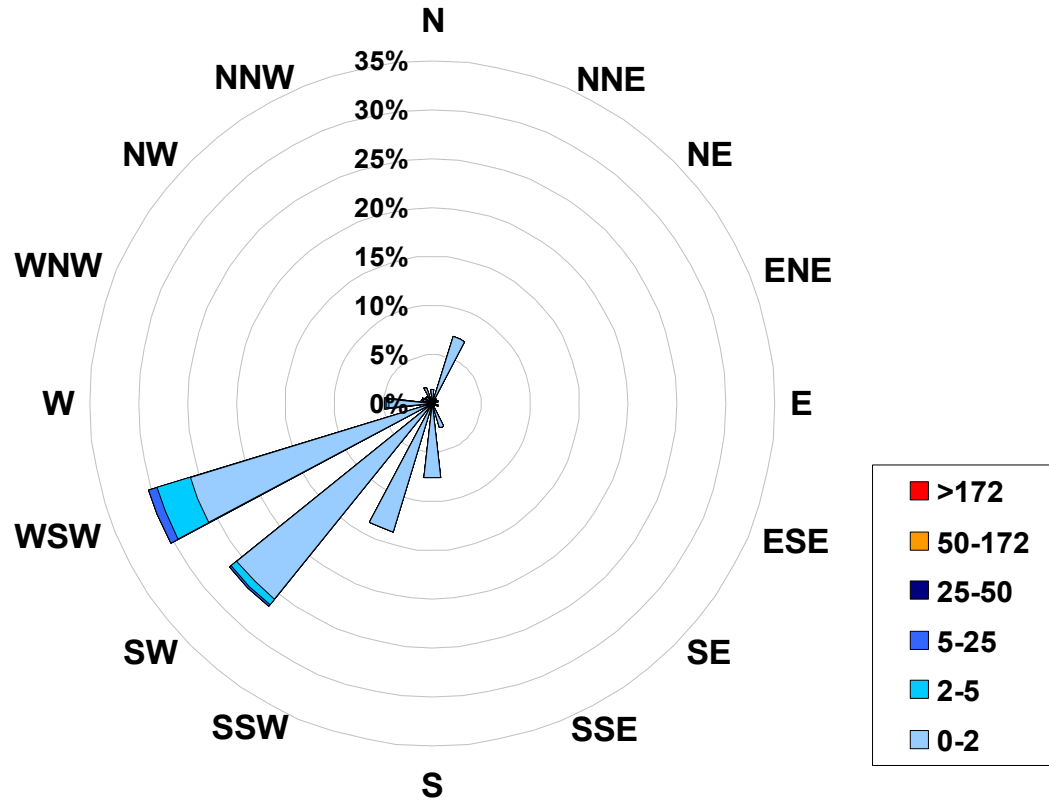


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for December 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	658
2	to	5	32
5	to	25	9
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			699

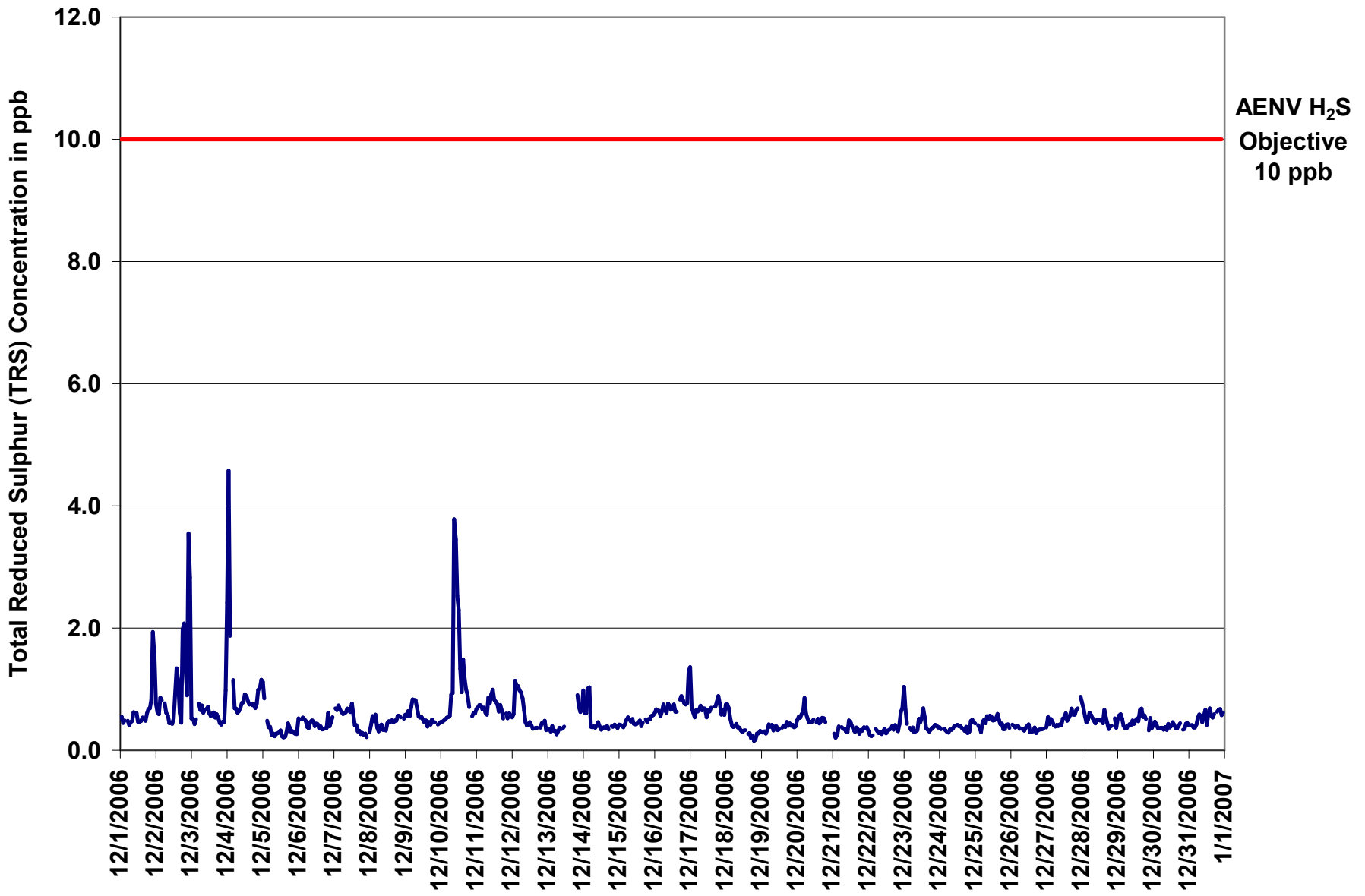


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

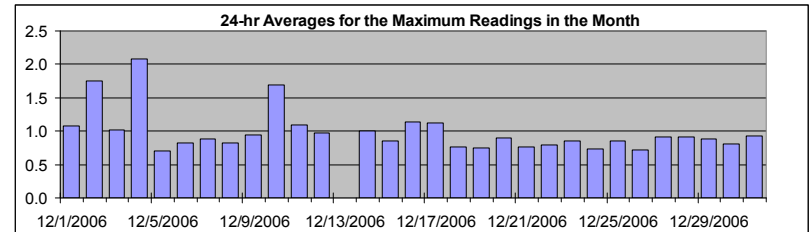
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	9.5	ppb	4-Dec	0:00 1:00
Maximum 24-hr Value:	2.1	ppb	4-Dec	



AIC Time:	34 hrs	Operational Time:	699 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.4	1.0	0.9	0.7	0.6	0.6	1.0 ppb	0.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																									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-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1.1	3.0
2-Dec-06	2	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	1	1	3	3	2	1	7	5	1.7	6.9	
3-Dec-06	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	2.1	
4-Dec-06	9	9	4	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2.1	9.5	
5-Dec-06	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.6	
6-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
7-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.2	
8-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0	
9-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.3	
10-Dec-06	1	1	1	1	1	1	1	1	1	6	4	3	3	2	1	2	2	1	1	1	1	A	1	1	1.7	5.9	
11-Dec-06	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	1.4	
12-Dec-06	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	1.6	
13-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	P	N	N	N	N	N	N	A	1	1	1	1	N	1.4	
14-Dec-06	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	3.3	
15-Dec-06	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	1.0	
16-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1.1	1.7	
17-Dec-06	2	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	1.9	
18-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.1	
19-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
20-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	C	C	C	0.9	1.2	
21-Dec-06	A	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
22-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.8	1.7	
23-Dec-06	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8	
24-Dec-06	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	
25-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0	
26-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8	
27-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.2	
28-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.4	
29-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.1	
30-Dec-06	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	0.9	
31-Dec-06	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	1.2	
Hourly Avg	1.3	1.2	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2		
Hourly Max	9.5	8.6	4.0	3.3	2.6	1.3	1.3	1.4	1.4	5.9	4.1	3.4	3.1	1.9	2.1	2.1	1.7	1.4	2.9	2.7	1.8	1.7	6.9	4.7			

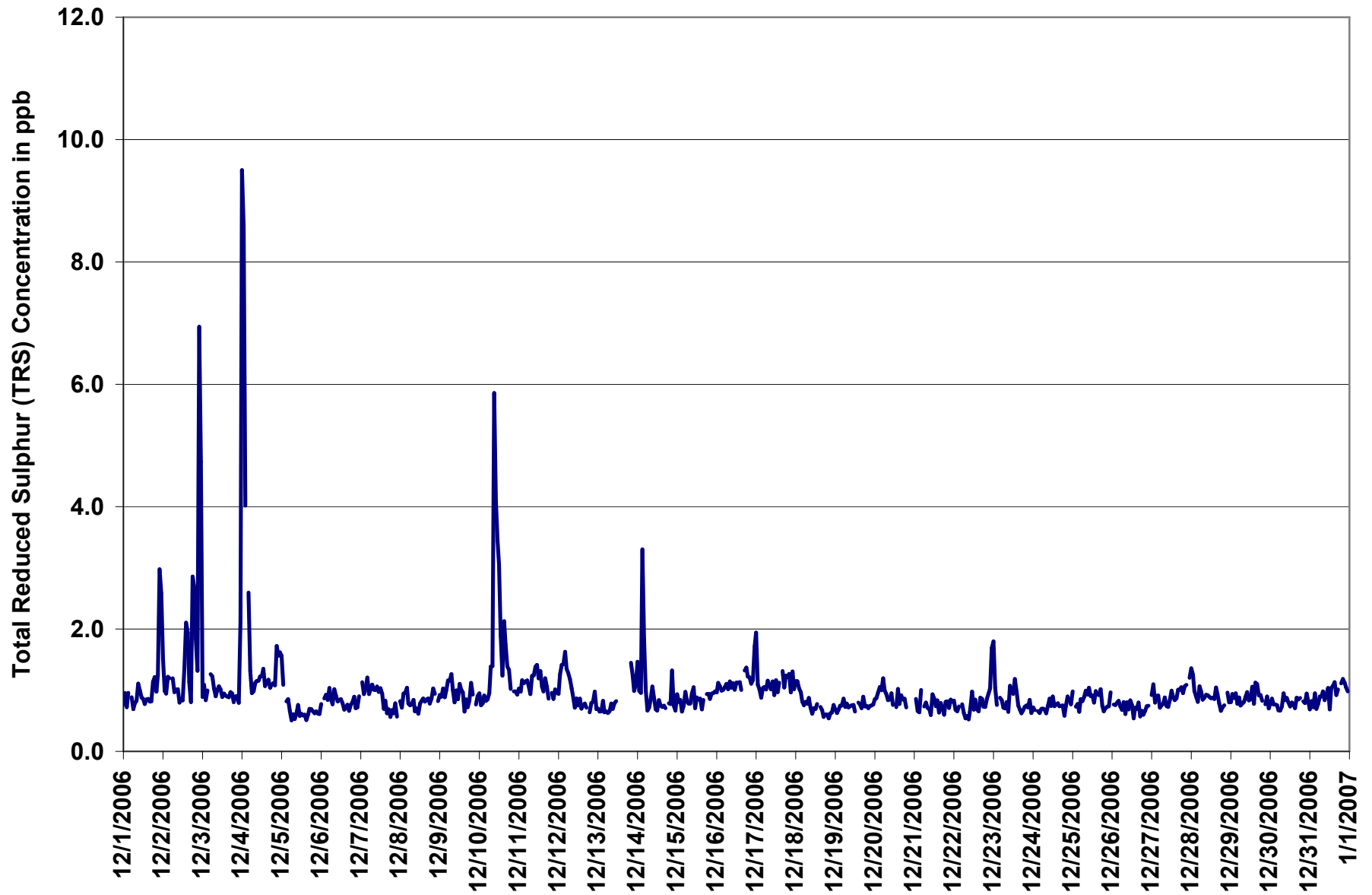
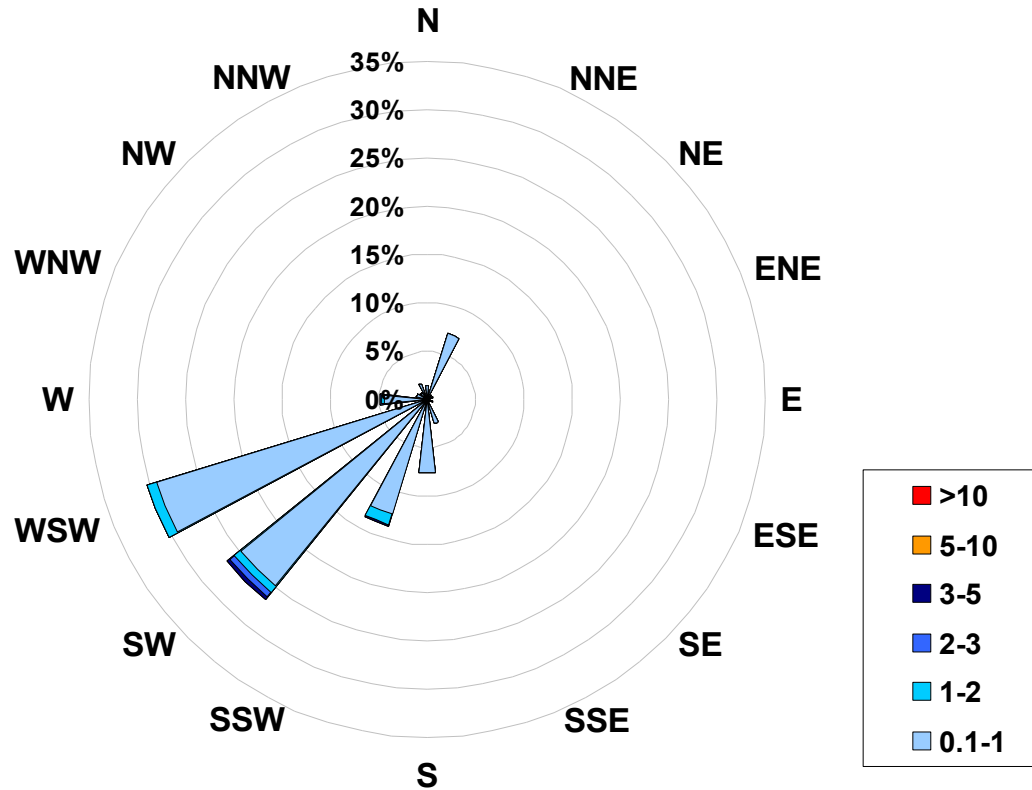


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for December 2006**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	667
1	to	2	23
2	to	3	5
3	to	5	4
5	to	10	0
	>	10	0
Total Non-Zero Values			699

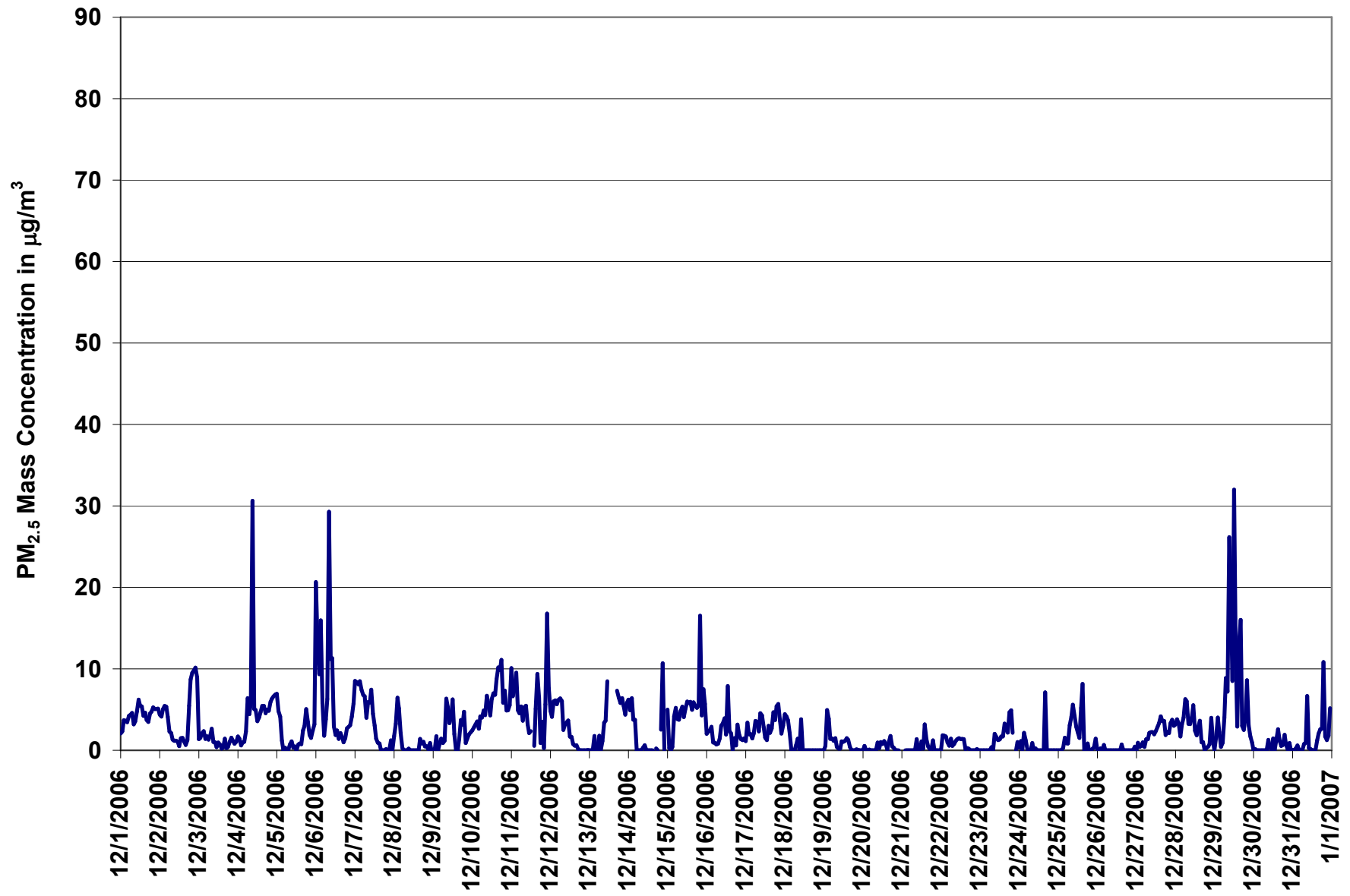


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

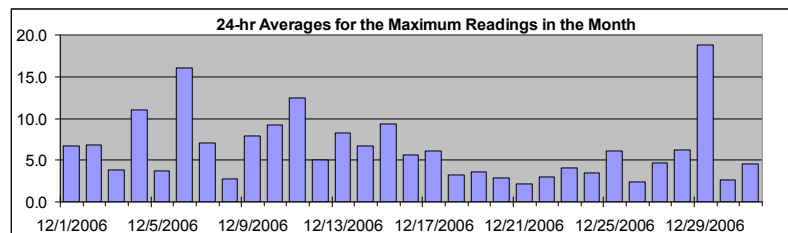
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	114.0	µg/m ³	4-Dec	9:00 10:00
Maximum 24-hr Value:	18.8	µg/m ³	29-Dec	



AIC Time:	0 hrs					Operational Time:					731 hrs
Calibration Time:	3 hrs					AMD Operational Uptime:					98.7%
Percentile	99	95	75	50	25	5	1	Average / Median			Geomean
	40.0	16.6	7.2	4.3	2.6	0.9	0.3	6.3	4 µg/m ³		5.4 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																									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-Dec-06	5	5	6	6	5	7	6	6	5	6	7	8	7	8	7	7	7	6	7	8	9	8	7	9	6.7	9.2	
2-Dec-06	7	8	8	9	7	7	5	4	4	3	3	3	4	3	3	2	3	8	18	15	12	13	12	6.8	17.7		
3-Dec-06	8	7	9	5	3	4	4	5	6	3	2	3	3	1	2	3	2	2	2	3	4	2	3	3.8	8.7		
4-Dec-06	4	2	2	4	3	6	9	7	16	114	7	7	5	6	6	7	6	7	7	8	8	8	8	11.0	114.0		
5-Dec-06	9	6	6	3	1	2	2	1	2	3	2	2	1	2	3	3	8	5	7	6	4	3	5	6	3.8	8.7	
6-Dec-06	40	25	18	36	33	5	6	8	81	45	27	12	3	4	3	4	3	4	5	5	5	6	7	16.0	80.6		
7-Dec-06	11	11	10	10	11	9	9	6	19	15	10	8	6	3	3	4	3	2	2	3	3	5	5	3	7.1	18.8	
8-Dec-06	4	6	9	8	5	2	0	0	2	1	2	1	1	1	2	3	2	4	2	2	2	5	2	2.8	8.6		
9-Dec-06	2	3	4	2	4	5	3	6	9	9	13	8	24	24	2	2	9	15	8	23	3	3	4	4	7.9	23.9	
10-Dec-06	5	7	6	6	7	6	6	7	6	10	7	9	12	12	9	13	14	14	14	11	9	8	9	12	9.2	14.2	
11-Dec-06	16	9	12	14	8	9	9	6	9	7	6	4	4	P	5	23	28	19	6	12	4	11	43	23	12.5	42.7	
12-Dec-06	17	8	9	10	9	9	9	8	5	6	5	5	3	3	2	3	3	1	2	0	1	1	3	5.0	16.8		
13-Dec-06	3	2	3	16	3	8	11	8	4	5	6	19	P	N	N	N	N	10	11	9	9	9	8	10	8.2	19.0	
14-Dec-06	9	9	11	7	6	7	2	1	2	3	2	1	1	1	1	3	D	3	2	D	32	33	5	D	6.7	33.0	
15-Dec-06	20	8	1	3	9	11	6	5	9	11	7	10	9	7	8	7	8	8	7	7	38	7	10	10	9.4	38.2	
16-Dec-06	3	4	4	4	3	3	2	2	3	5	6	6	4	28	15	5	1	7	5	6	5	4	5	5	5.6	27.7	
17-Dec-06	5	5	4	4	8	8	8	7	6	8	7	7	4	4	6	7	5	7	7	8	8	6	4	6	6.1	8.0	
18-Dec-06	8	6	5	5	0	1	1	2	3	11	16	3	1	1	2	4	2	1	1	1	1	1	1	3.2	16.0		
19-Dec-06	2	3	9	9	5	5	3	6	3	2	3	3	3	3	4	4	3	2	3	3	2	2	3	1	3.6	9.1	
20-Dec-06	2	4	5	3	4	1	4	1	3	3	2	3	2	4	4	4	3	4	2	3	2	2	1	C	2.9	4.8	
21-Dec-06	C	C	0	1	1	0	1	2	2	3	2	1	3	2	6	6	2	1	2	3	3	1	2	2	2.2	6.2	
22-Dec-06	2	4	4	4	4	2	4	3	4	4	4	3	3	3	3	2	2	3	3	1	2	1	3	4	3.0	4.5	
23-Dec-06	1	1	3	3	1	1	0	6	4	5	3	4	5	4	4	6	5	4	12	12	5	D	2	4	4.0	11.9	
24-Dec-06	2	6	5	5	3	2	1	1	3	2	2	4	3	2	4	2	19	12	0	4	1	0	0	1	3.5	18.8	
25-Dec-06	2	2	4	5	5	3	5	6	6	11	6	8	6	4	11	38	3	1	3	2	3	3	2	4	6.1	38.2	
26-Dec-06	2	1	4	3	4	0	2	2	1	1	3	2	1	2	1	3	2	4	4	5	2	3	3	3	2.4	4.6	
27-Dec-06	1	3	4	2	3	4	4	4	4	5	4	4	5	5	6	6	5	6	5	5	7	6	7	6	4.6	7.3	
28-Dec-06	6	6	6	4	10	9	9	10	6	9	9	9	4	6	5	6	5	5	1	3	4	4	8	4	6.2	10.1	
29-Dec-06	4	4	7	6	2	5	7	15	32	60	64	15	63	28	15	39	28	9	4	6	23	6	4	3	18.8	63.7	
30-Dec-06	1	2	2	3	1	2	1	1	1	3	2	1	3	3	3	6	3	2	4	4	3	3	4	4	2.6	6.1	
31-Dec-06	3	1	3	2	2	1	1	4	4	11	1	2	2	1	1	4	5	5	6	21	5	4	7	13	4.6	21.2	
Hourly Avg	6.8	5.6	5.9	6.6	5.5	4.6	4.5	4.8	8.5	12.5	7.7	5.6	6.5	6.1	4.8	7.4	6.5	5.5	4.9	6.6	7.1	5.4	6.0	6.0			
Hourly Max	40.4	25.0	17.7	36.2	32.6	11.4	11.2	14.8	80.6	114.0	63.7	19.0	63.1	27.8	14.7	39.2	28.3	19.3	14.2	23.1	38.2	33.0	42.7	23.0			

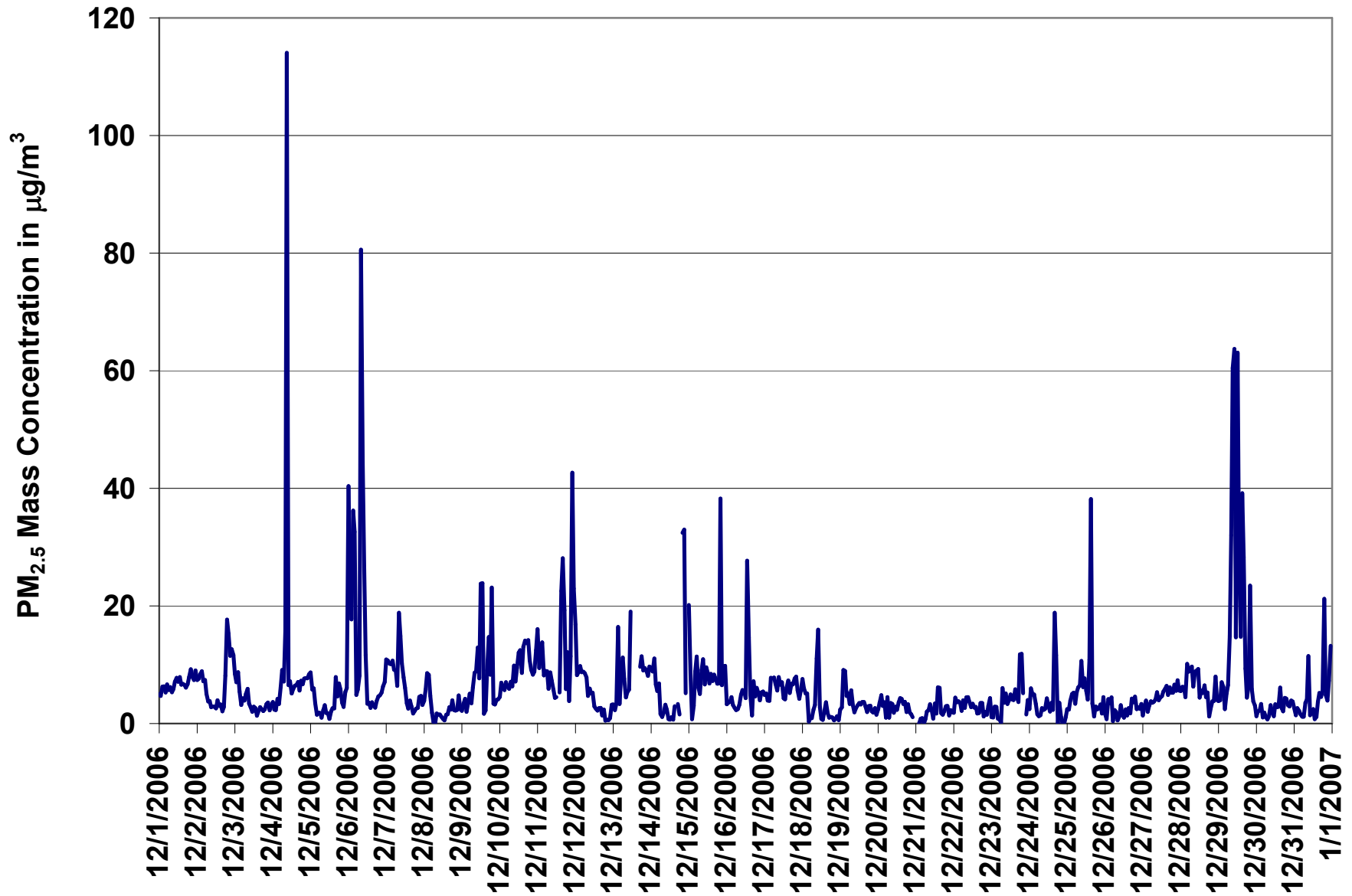
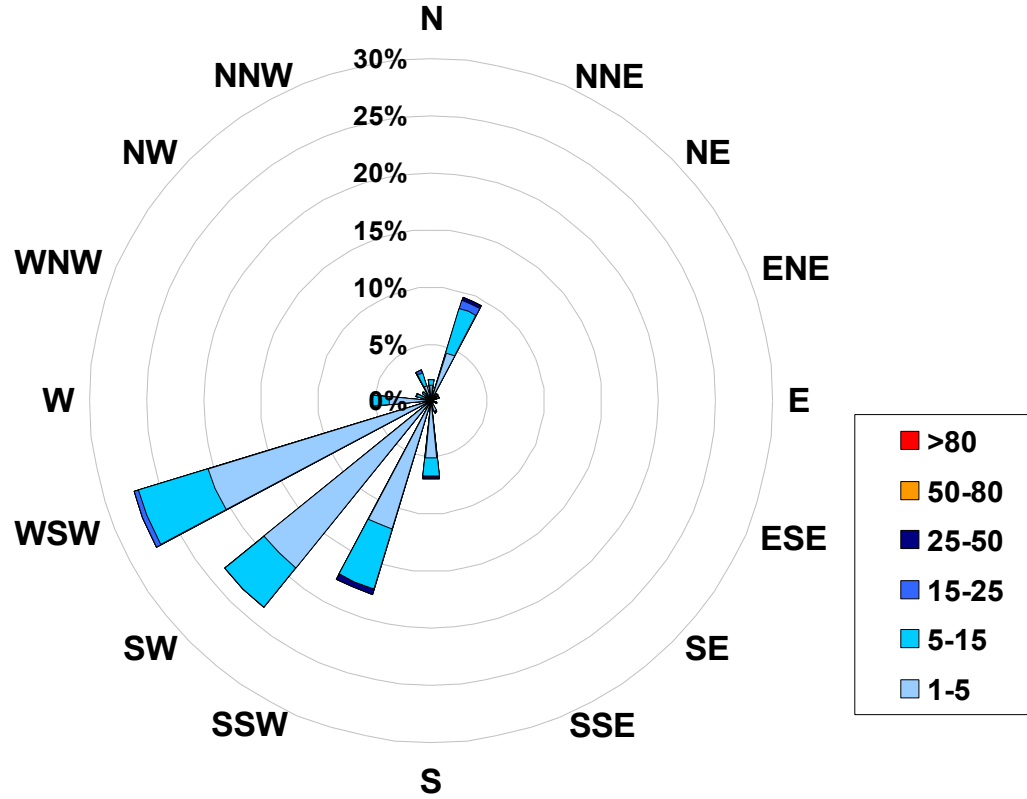


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 December 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	600
5	to	15	121
15	to	25	6
25	to	50	4
50	to	80	0
	>	80	0
Total Non-Zero Values			731

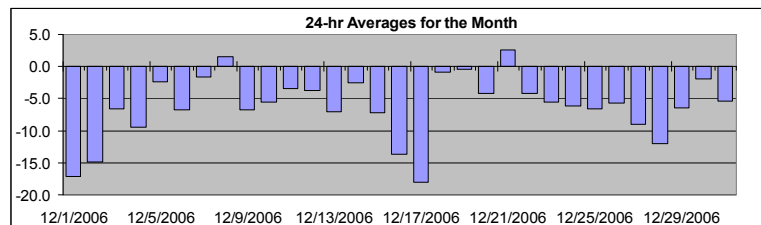
PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007



Summary

Maximum 1-hr Average:	7.0 °C	21-Dec	10:00 11:00
Maximum 24-hr Value:	2.6 °C	21-Dec	

AIC Time:	0 hrs		Operational Time:	740 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%					
Percentile	99	95	75	50	25	5	1	Average	Median
	4.5	2.4	-2.5	-5.7	-9.2	-16.8	-20.9	-6.2 °C	-5.7 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Dec-06	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18	-17	-16	-16	-15	-15	-15	-17	-19	-20	-20	-21	-19	-19	-20	-17.1	-14.9
2-Dec-06	-21	-21	-21	-20	-20	-20	-20	-19	-18	-17	-16	-15	-14	-13	-13	-12	-12	-11	-11	-11	-10	-9	-8	-7	-14.9	-7.2	
3-Dec-06	-2	-4	-5	-5	-6	-7	-7	-7	-7	-8	-8	-8	-7	-8	-8	-7	-7	-7	-6	-6	-6	-6	-8	-6	-6.6	-2.4	
4-Dec-06	-9	-10	-11	-11	-11	-12	-12	-13	-13	-13	-11	-10	-9	-8	-9	-8	-8	-7	-7	-7	-7	-6	-7	-6	-9.4	-6.3	
5-Dec-06	-6	-5	-4	-2	-2	-1	-1	-1	-1	0	0	1	1	1	2	2	0	-2	-4	-5	-6	-7	-8	-9	-2.4	1.7	
6-Dec-06	-9	-9	-10	-10	-10	-10	-10	-10	-10	-9	-8	-6	-5	-4	-4	-4	-4	-4	-4	-4	-4	-4	-5	-5	-6.8	-3.6	
7-Dec-06	-5	-5	-5	-5	-5	-4	-3	-2	-3	-3	-3	-2	0	1	0	1	2	2	2	1	0	-2	0	0	-1.6	2.5	
8-Dec-06	-1	-1	3	2	2	5	4	3	2	3	4	4	4	4	4	4	4	1	-1	-2	0	-3	-4	-2	1.6	5.2	
9-Dec-06	-4	-8	-8	-9	-10	-10	-11	-12	-11	-8	-9	-9	-5	-4	-4	-4	-4	-4	-5	-5	-5	-4	-4	-4	-6.7	-3.8	
10-Dec-06	-4	-4	-4	-5	-5	-5	-6	-5	-5	-6	-6	-5	-5	-4	-2	-5	-5	-7	-8	-7	-8	-9	-7	-8	-5.6	-2.1	
11-Dec-06	-8	-5	-6	-6	-5	-6	-6	-6	-7	-6	-3	-2	-1	-2	-2	-2	-2	0	1	1	-2	-2	-3	-4	-3.5	1.2	
12-Dec-06	-6	-6	-5	-6	-7	-7	-6	-4	-3	-1	0	0	1	1	1	1	0	-2	-4	-5	-5	-7	-8	-10	-3.7	0.8	
13-Dec-06	-9	-10	-10	-10	-8	-7	-6	-5	-4	-4	-4	-4	P	N	N	N	-5	-5	-5	-7	-9	-10	-11	-10	-7.1	-3.5	
14-Dec-06	-9	-7	-7	-8	-5	1	1	1	1	1	1	1	1	1	1	0	-1	-3	-4	-5	-5	-6	-5	-5	-2.5	1.0	
15-Dec-06	-3	-3	-4	-5	-6	-6	-7	-7	-7	-7	-8	-7	-8	-8	-8	-8	-8	-8	-8	-8	-9	-10	-10	-10	-7.1	-3.1	
16-Dec-06	-10	-10	-10	-10	-10	-10	-12	-13	-15	-16	-16	-13	-12	-11	-10	-11	-16	-16	-16	-15	-17	-19	-20	-20	-13.6	-10.0	
17-Dec-06	-22	-18	-19	-19	-20	-23	-24	-23	-24	-23	-22	-19	-17	-16	-15	-15	-17	-16	-17	-15	-15	-13	-12	-11	-18.0	-10.6	
18-Dec-06	-10	-9	-8	-6	-5	-4	-4	-3	-2	-4	-3	0	2	2	2	2	3	4	4	4	4	3	2	4	-0.9	4.4	
19-Dec-06	3	0	0	3	3	2	1	0	-1	-2	-1	0	0	0	0	1	1	0	-3	-3	-3	-4	-3	-5	-0.4	3.1	
20-Dec-06	-7	-6	-7	-9	-8	-8	-8	-7	-7	-4	-3	-4	-3	-2	-1	-3	-4	-3	-2	-2	-1	-2	-2	-2	-4.2	-1.3	
21-Dec-06	-1	0	1	1	2	2	2	3	3	5	7	7	6	5	5	5	4	3	1	1	1	1	0	0	2.6	7.0	
22-Dec-06	-1	-1	-2	-2	-3	-3	-3	-4	-4	-4	-4	-3	-3	-4	-4	-4	-5	-6	-7	-6	-7	-6	-7	-7	-4.2	-0.7	
23-Dec-06	-8	-8	-8	-8	-6	-7	-7	-9	-11	-8	-6	-5	-4	-4	-4	-3	-1	-2	-3	-1	-3	-4	-6	-8	-5.6	-1.2	
24-Dec-06	-7	-7	-8	-6	-5	-5	-6	-9	-9	-11	-10	-9	-8	-8	-7	-9	-7	-6	-3	-4	-2	-1	-1	-1	-6.1	-0.6	
25-Dec-06	-1	-2	-5	-6	-8	-10	-12	-11	-11	-12	-10	-7	-6	-5	-4	-4	-5	-6	-5	-4	-5	-5	-7	-8	-6.6	-1.5	
26-Dec-06	-6	-8	-6	-6	-4	-7	-7	-7	-6	-6	-5	-4	-4	-4	-3	-3	-3	-4	-7	-6	-7	-8	-8	-8	-5.7	-3.3	
27-Dec-06	-10	-11	-11	-10	-10	-11	-11	-11	-10	-10	-10	-9	-8	-8	-7	-7	-6	-5	-6	-7	-9	-9	-10	-8	-8.9	-4.9	
28-Dec-06	-7	-7	-8	-11	-13	-14	-15	-15	-16	-14	-15	-13	-12	-11	-11	-12	-12	-11	-11	-10	-11	-15	-14	-12	-12.0	-7.2	
29-Dec-06	-12	-14	-14	-12	-10	-11	-9	-9	-8	-8	-8	-7	-5	-4	-3	-3	-2	-4	-5	-6	-3	1	0	-1	-6.5	1.3	
30-Dec-06	-1	-2	-2	-2	-3	-4	-3	-4	-5	-2	-1	-1	0	1	1	0	-1	-2	-1	-3	-4	-4	-4	-4	-2.0	1.0	
31-Dec-06	-4	-4	-5	-5	-5	-6	-7	-7	-7	-6	-5	-5	-5	-5	-5	-6	-6	-5	-7	-6	-5	-5	-4	-5	-5.4	-3.5	
Hourly Avg	-7.0	-7.2	-7.1	-7.2	-7.2	-7.3	-7.4	-7.5	-7.5	-7.1	-6.4	-5.5	-4.7	-4.4	-4.0	-4.3	-4.7	-5.0	-5.5	-5.6	-5.9	-6.3	-6.4	-6.5			
Hourly Max	3.1	-0.3	2.6	3.1	2.8	5.2	3.7	2.7	2.9	4.6	7.0	6.7	6.5	5.0	5.4	4.8	3.8	4.3	3.9	4.0	4.4	2.7	2.2	3.6			

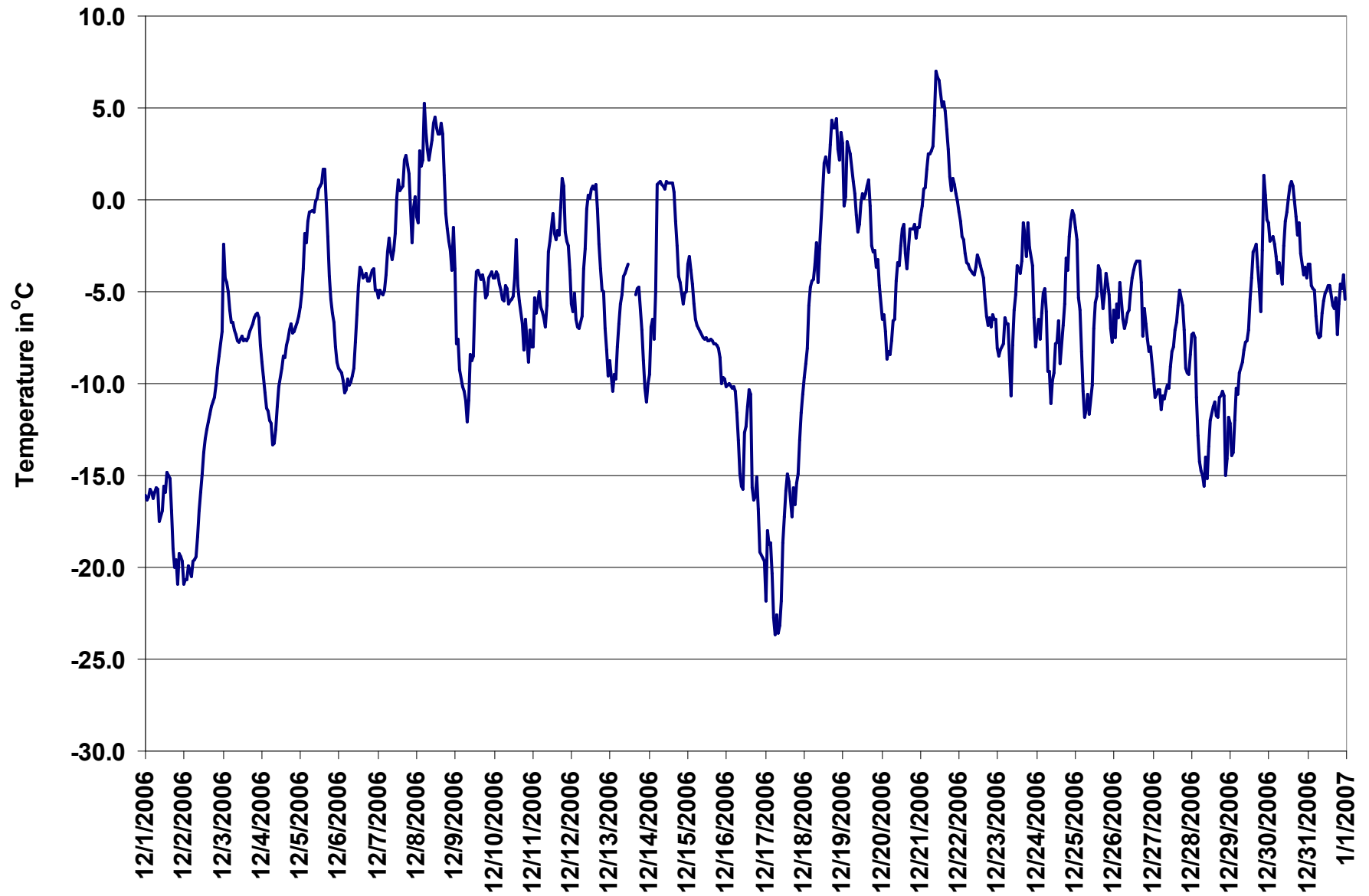


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%			
Percentile	99	95	75	50	25	5	1
	43.5	27.1	10.5	6.5	3.9	2.3	1.9

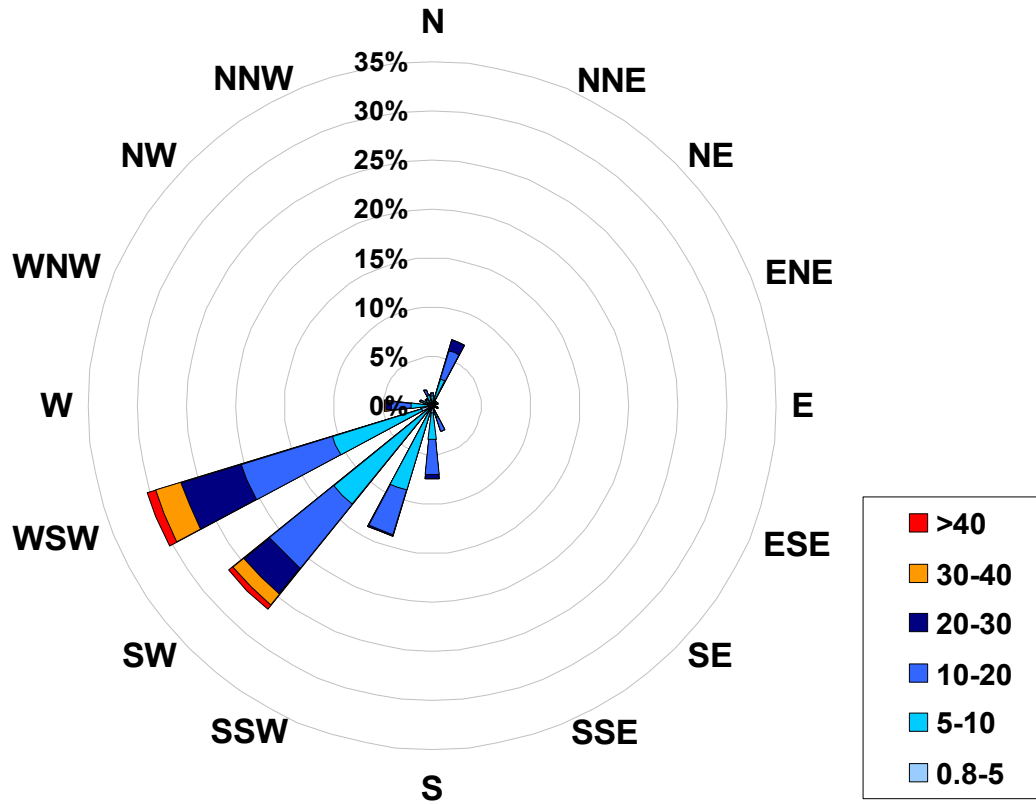
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Dec-06	9	6	11	14	17	14	14	11	9	4	3	4	4	5	6	7	9	11	10	6	9	6	3	6	16.8		
2-Dec-06	5	4	5	4	4	3	3	3	4	5	4	4	5	4	7	4	3	9	23	4	4	27	34	27	34.5		
3-Dec-06	6	50	6	6	5	6	11	27	16	17	7	7	17	8	6	10	5	4	6	9	9	12	4	3	49.8		
4-Dec-06	3	3	8	5	10	14	5	8	32	20	8	6	9	9	12	9	10	10	10	19	8	2	3	3	31.5		
5-Dec-06	5	3	6	2	3	2	2	2	3	2	2	14	3	4	21	9	4	4	5	5	4	3	2	20.9			
6-Dec-06	3	4	3	3	6	4	6	4	8	9	22	35	6	5	8	4	4	4	7	9	3	6	7	12	35.4		
7-Dec-06	7	25	11	7	7	5	7	18	21	18	43	12	6	9	5	5	11	36	15	11	17	8	19	7	43.5		
8-Dec-06	19	17	8	11	10	6	4	3	3	2	2	16	3	3	4	2	2	8	7	10	8	6	4	4	19.3		
9-Dec-06	4	6	26	16	11	10	17	24	9	9	47	7	5	12	4	4	5	7	6	11	23	14	23	12	47.4		
10-Dec-06	14	9	6	5	5	6	9	7	5	5	8	5	7	11	6	6	13	6	5	44	16	34	37	30	43.6		
11-Dec-06	10	6	7	6	8	7	6	33	20	8	9	9	6	14	42	25	11	4	5	7	4	7	28	47	47.2		
12-Dec-06	18	10	8	20	12	12	10	15	9	5	3	2	3	3	4	7	3	8	9	5	4	4	4	6	20.4		
13-Dec-06	10	35	9	8	10	6	7	7	21	13	7	9	P	N	N	N	10	15	9	6	22	10	13	16	34.6		
14-Dec-06	9	6	32	5	4	4	4	2	2	3	2	2	2	4	3	3	4	9	9	17	32	5	2	3	31.6		
15-Dec-06	5	15	3	3	3	3	2	2	3	3	3	9	9	6	10	8	10	14	9	8	24	4	6	10	24.4		
16-Dec-06	7	4	3	3	6	4	7	8	3	4	11	27	15	25	18	44	4	8	5	7	9	10	13	5	44.0		
17-Dec-06	6	7	10	10	5	4	3	4	5	4	5	7	6	6	3	6	7	11	8	9	10	4	5	7	11.1		
18-Dec-06	3	6	6	5	5	5	6	12	5	29	28	19	3	5	10	6	4	5	3	4	6	14	3	3	29.2		
19-Dec-06	6	10	3	6	3	3	3	3	2	2	4	2	22	4	4	3	3	12	6	9	8	29	5	8	29.3		
20-Dec-06	18	7	35	9	12	7	7	8	12	13	8	11	8	13	24	12	7	7	7	7	7	12	8	32	34.8		
21-Dec-06	18	13	4	10	4	4	13	13	8	5	3	3	44	2	3	4	5	5	4	4	3	2	2	2	43.9		
22-Dec-06	2	3	2	2	2	2	4	3	4	3	3	3	2	2	2	6	5	10	11	4	7	4	11	9	11.1		
23-Dec-06	6	5	8	10	16	21	9	7	9	21	18	27	23	6	11	5	3	2	10	9	4	5	4	2	27.1		
24-Dec-06	3	2	4	2	2	2	2	4	14	7	7	5	21	32	10	39	11	19	6	22	16	4	7	34	39.2		
25-Dec-06	9	8	10	12	9	10	15	6	3	9	7	15	20	9	29	24	24	6	5	4	7	5	3	9	29.2		
26-Dec-06	9	7	2	7	2	3	2	5	2	2	5	3	3	3	4	11	15	8	8	3	10	9	7	15	15.3		
27-Dec-06	7	10	4	9	7	20	10	8	4	5	9	6	20	15	14	13	8	5	36	11	23	13	8	15	35.9		
28-Dec-06	8	52	13	6	5	5	11	10	7	6	7	6	7	4	4	9	11	6	10	4	3	8	6	5	52.2		
29-Dec-06	6	11	16	6	3	3	8	4	7	10	10	8	13	10	11	17	23	13	12	24	14	2	4	2	23.8		
30-Dec-06	2	2	2	4	3	3	2	2	2	4	4	4	3	3	3	2	2	3	3	4	4	4	2	7	6.5		
31-Dec-06	3	3	11	9	4	5	16	34	17	30	6	8	16	6	4	16	23	8	5	5	5	28	4	53	52.6		
Hourly Max	19	52	35	20	17	21	17	34	32	30	47	35	44	32	42	44	24	36	36	44	32	34	37	53			

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for December 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	42
5	to	10	308
10	to	20	256
20	to	30	93
30	to	40	31
	>	40	10
Total Non-Zero Values			740

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: December 1, 2006 to January 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:	704
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-Dec-06	19	20	19	18	N	19	19	15	15	18	18	15	16	17	15	17	13	16	16	16	13	13	12	12
2-Dec-06	11	12	12	13	N	12	11	10	7	9	6	8	5	6	6	6	6	8	6	11	11	15	16	14
3-Dec-06	14	15	17	18	N	18	16	17	18	18	18	18	17	17	16	15	13	11	10	11	11	9	9	5
4-Dec-06	10	10	9	9	N	12	8	9	7	9	7	7	6	11	7	10	9	8	8	7	7	5	5	14
5-Dec-06	16	17	17	18	N	19	19	19	19	19	19	19	19	19	20	19	15	17	18	17	13	13	15	13
6-Dec-06	9	10	10	11	N	10	8	6	5	7	7	9	9	8	8	6	6	7	6	8	6	6	6	6
7-Dec-06	6	4	4	8	N	14	14	15	15	16	13	10	10	10	16	14	11	7	6	7	7	7	6	9
8-Dec-06	10	10	14	18	N	19	18	17	17	16	17	16	18	19	18	17	17	18	19	19	17	18	17	18
9-Dec-06	18	19	18	17	N	12	14	14	9	8	7	9	13	13	12	9	6	6	6	6	6	9	5	6
10-Dec-06	6	5	5	6	N	5	6	5	5	4	6	6	7	6	5	4	5	5	5	5	6	5	5	5
11-Dec-06	5	5	5	6	N	5	6	7	9	8	11	9	6	8	6	7	7	6	7	6	5	6	6	5
12-Dec-06	6	7	11	13	N	12	8	6	9	12	15	16	N	16	15	N	19	19	18	15	18	17	17	18
13-Dec-06	18	N	18	N	N	17	13	10	13	6	9	8	N	N	N	N	12	13	12	10	6	8	8	11
14-Dec-06	11	13	16	18	N	19	19	19	19	19	19	19	19	19	19	19	N	17	16	18	18	17	15	18
15-Dec-06	19	18	18	18	N	17	16	13	13	13	13	12	14	11	10	10	10	12	13	13	13	14	13	14
16-Dec-06	14	13	14	12	N	12	14	15	16	17	11	15	15	15	16	14	15	17	17	18	18	18	13	15
17-Dec-06	16	16	15	15	N	15	15	14	14	16	16	16	15	15	14	13	11	10	13	14	11	14	16	15
18-Dec-06	17	18	17	17	N	18	17	17	17	18	18	19	19	18	18	18	20	20	20	19	20	20	19	19
19-Dec-06	20	20	20	19	N	20	19	19	19	19	19	19	19	19	19	19	18	17	18	17	16	16	17	18
20-Dec-06	15	16	16	13	N	17	17	13	11	12	10	9	12	9	10	7	6	10	6	7	7	7	9	15
21-Dec-06	15	15	16	17	N	18	18	18	15	14	15	16	19	19	19	19	19	18	19	19	19	19	19	19
22-Dec-06	19	19	19	19	N	19	18	18	18	18	18	18	18	18	18	18	18	17	15	17	17	17	17	15
23-Dec-06	16	17	17	16	N	16	14	13	9	8	10	8	8	11	15	18	18	18	18	17	17	17	17	17
24-Dec-06	17	18	17	18	N	18	18	18	18	18	18	17	16	14	16	17	17	16	18	19	18	17	16	13
25-Dec-06	13	13	13	14	N	14	14	15	16	17	17	18	18	18	20	20	19	19	19	19	18	18	18	17
26-Dec-06	17	18	18	18	N	18	18	18	18	19	19	19	19	19	19	19	19	19	18	19	18	18	18	18
27-Dec-06	18	18	18	18	N	16	15	15	15	15	16	16	15	16	17	16	16	16	16	17	13	12	15	16
28-Dec-06	16	16	16	16	N	16	15	15	15	15	13	13	13	14	11	11	11	10	9	7	9	9	10	8
29-Dec-06	5	10	14	12	N	6	5	5	6	6	7	8	7	6	8	7	7	10	8	17	20	19	19	19
30-Dec-06	19	19	18	18	N	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18
31-Dec-06	18	18	17	16	N	15	15	15	15	14	13	15	16	16	16	15	17	18	18	20	20	19	19	20

PASZA – Beaverlodge - Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

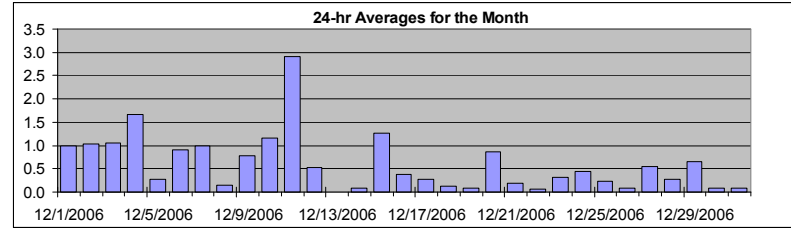
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 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:	7.3 ppb 2-Dec 17:00 18:00
Maximum 24-hr Average:	2.9 ppb 11-Dec



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	2.0	0.9	0.3	0.1	0.1	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																								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-Dec-06	1	1	1	2	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1.0	1.7
2-Dec-06	0	0	0	0	A	0	0	0	0	0	1	2	1	1	1	2	7	2	1	1	1	1	1	1.0	7.3	
3-Dec-06	1	1	1	1	A	1	1	1	1	1	3	1	1	2	2	1	1	1	1	1	1	0	0	1.0	3.1	
4-Dec-06	0	0	0	0	A	2	3	7	4	2	2	2	2	2	2	1	1	2	2	1	1	0	0	1.7	6.6	
5-Dec-06	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	1.1	
6-Dec-06	0	1	0	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	1	0.9	1.6	
7-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	4	6	2	2	1	1	1	1	1.0	6.0	
8-Dec-06	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	
9-Dec-06	0	0	0	0	A	0	0	0	0	0	1	1	1	1	2	2	1	1	1	1	1	1	1	0.8	1.7	
10-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	1.2	2.6	
11-Dec-06	2	3	3	4	A	4	6	5	4	4	3	3	3	4	3	3	2	2	1	1	2	2	1	2.9	6.1	
12-Dec-06	1	1	2	0	A	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.5	1.6	
13-Dec-06	0	0	0	1	A	1	1	1	1	1	1	1	C	C	C	C	C	A	0	0	0	0	0	N	1.2	
14-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
15-Dec-06	0	1	1	1	A	0	1	3	4	3	1	1	0	1	2	1	1	1	1	1	1	1	1	1.3	3.8	
16-Dec-06	1	1	1	1	A	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
17-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0.3	0.9	
18-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
19-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
20-Dec-06	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5	
21-Dec-06	1	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2	
22-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
23-Dec-06	0	0	0	1	A	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.7	
24-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	2	1	1	0	0	1	1	1	0.4	1.7	
25-Dec-06	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
26-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
27-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	1	1	0	0.5	2.0	
28-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0.3	1.1	
29-Dec-06	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.7	1.4	
30-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
31-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
Hourly Avg	0.4	0.4	0.4	0.6	N	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.8	0.8	0.9	0.6	0.5	0.5	0.4	0.5	0.4		
Hourly Max	1.9	2.7	2.7	4.1	0.0	3.9	6.1	6.6	3.9	4.5	3.3	3.5	3.4	3.5	2.7	3.8	6.0	7.3	2.5	1.4	1.7	1.9	2.6	2.5		

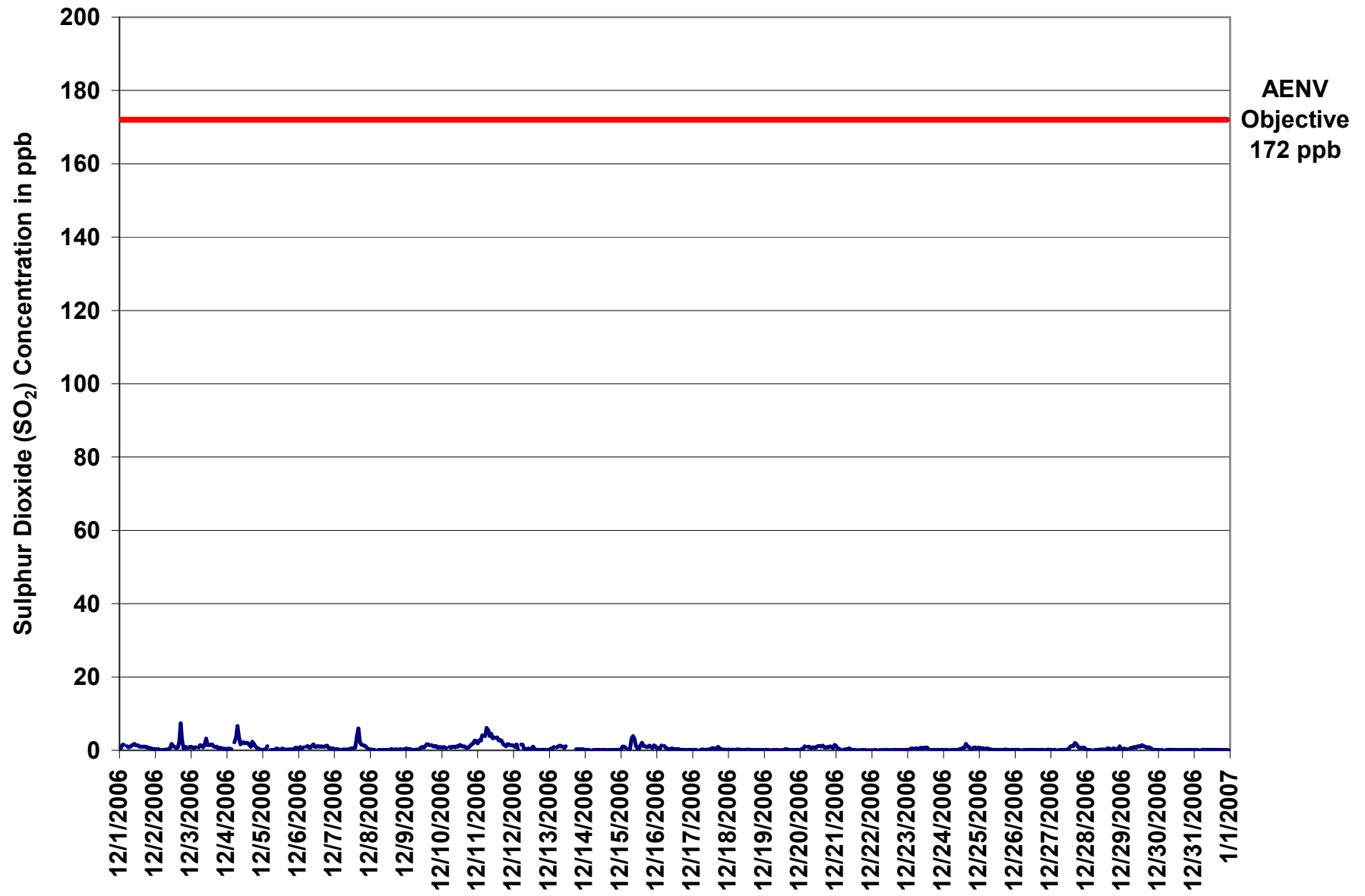


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

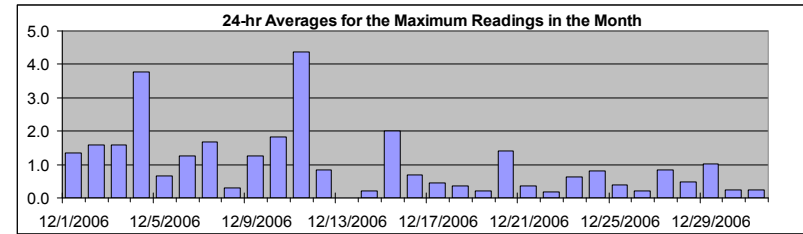
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	13.2	ppb	4-Dec	7:00 8:00
Maximum 24-hr Value:	4.4	ppb	11-Dec	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.8	3.6	1.3	0.5	0.2	0.1	0.1	1.0 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Dec-06	1	1	2	2	A	2	1	1	1	2	2	2	2	1	1	1	2	1	1	1	1	1	1	0	1.4	2.4	
2-Dec-06	0	0	0	0	A	0	0	0	0	0	1	3	2	1	1	1	6	9	4	1	2	1	1	1	1.6	9.4	
3-Dec-06	1	1	1	1	A	1	2	2	1	2	9	3	2	2	2	1	1	1	1	1	1	1	1	1	1.6	8.8	
4-Dec-06	1	1	1	0	A	13	8	13	10	6	4	4	2	3	3	3	4	4	2	1	1	0	0	0	3.8	13.2	
5-Dec-06	0	0	0	2	A	0	0	0	1	1	1	0	0	4	1	0	0	0	0	0	0	1	1	1	0.7	4.1	
6-Dec-06	1	1	1	1	A	1	2	1	1	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1.3	2.0	
7-Dec-06	0	0	1	0	A	0	0	0	0	0	1	1	1	1	2	10	9	3	2	2	2	1	1	1	1.7	10.0	
8-Dec-06	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	
9-Dec-06	1	1	1	0	A	0	0	0	1	1	2	1	1	2	2	2	2	2	2	2	2	1	1	1	1.2	2.5	
10-Dec-06	1	1	1	1	A	1	2	2	2	1	2	1	2	2	1	1	1	1	1	1	2	3	4	4	1.8	3.8	
11-Dec-06	3	4	4	6	A	6	7	8	5	5	4	4	4	9	6	7	4	3	2	1	2	2	2	2	4.4	9.2	
12-Dec-06	2	1	3	1	A	2	2	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.9	2.6	
13-Dec-06	0	1	1	1	A	1	2	2	2	1	1	4	C	C	C	C	C	A	0	0	0	0	0	0	N	3.9	
14-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
15-Dec-06	1	2	1	1	A	0	2	4	5	5	2	2	1	2	2	2	1	1	1	2	2	1	2	1	2.0	4.8	
16-Dec-06	1	1	1	3	A	2	1	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0.7	2.8	
17-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.2	
18-Dec-06	0	0	0	1	A	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	1.8	
19-Dec-06	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-Dec-06	0	1	1	2	A	2	1	1	1	1	1	1	2	3	3	3	1	1	2	1	1	1	1	2	1.4	3.3	
21-Dec-06	2	1	1	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6	
22-Dec-06	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	
23-Dec-06	0	0	1	1	A	1	1	1	1	2	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0.6	2.0	
24-Dec-06	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	4	2	1	1	1	1	1	1	1	0.8	4.0	
25-Dec-06	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1	
26-Dec-06	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	
27-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	1	1	1	1	0.8	2.2	
28-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	1	0.5	1.6	
29-Dec-06	1	1	1	1	A	1	1	2	2	1	1	1	1	2	2	1	1	1	1	1	1	0	0	0	1.0	2.3	
30-Dec-06	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	
31-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
Hourly Avg	0.6	0.7	0.8	0.9	N	1.2	1.2	1.4	1.2	1.2	1.3	1.1	0.9	1.5	1.2	1.6	1.3	1.3	1.0	0.8	0.8	0.7	0.7	0.7			
Hourly Max	2.6	3.6	4.0	6.0	0.0	12.6	8.0	13.2	9.8	6.0	8.8	4.4	4.2	9.2	5.9	10.0	9.2	9.4	4.1	2.0	2.7	3.6	3.8	3.6			

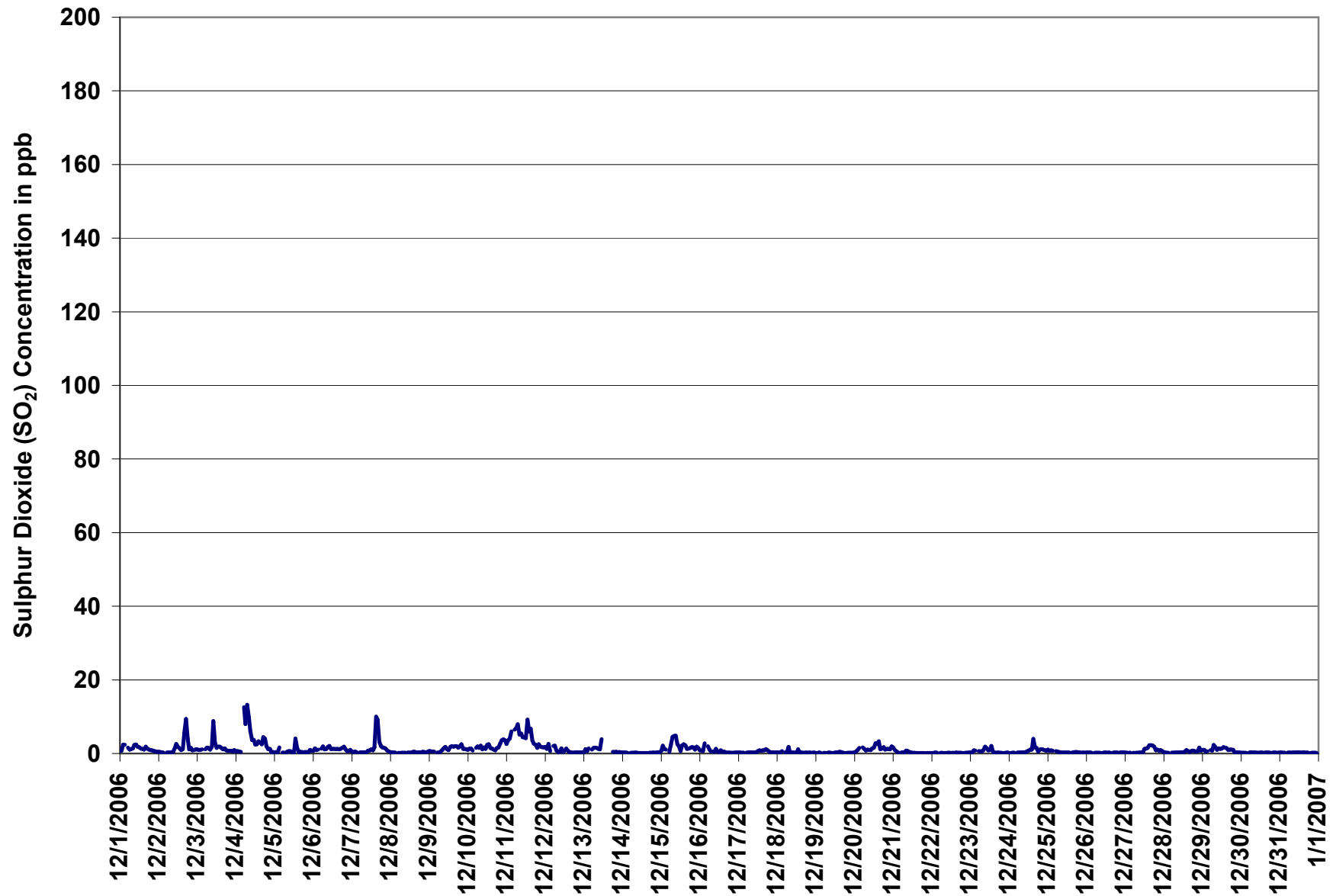
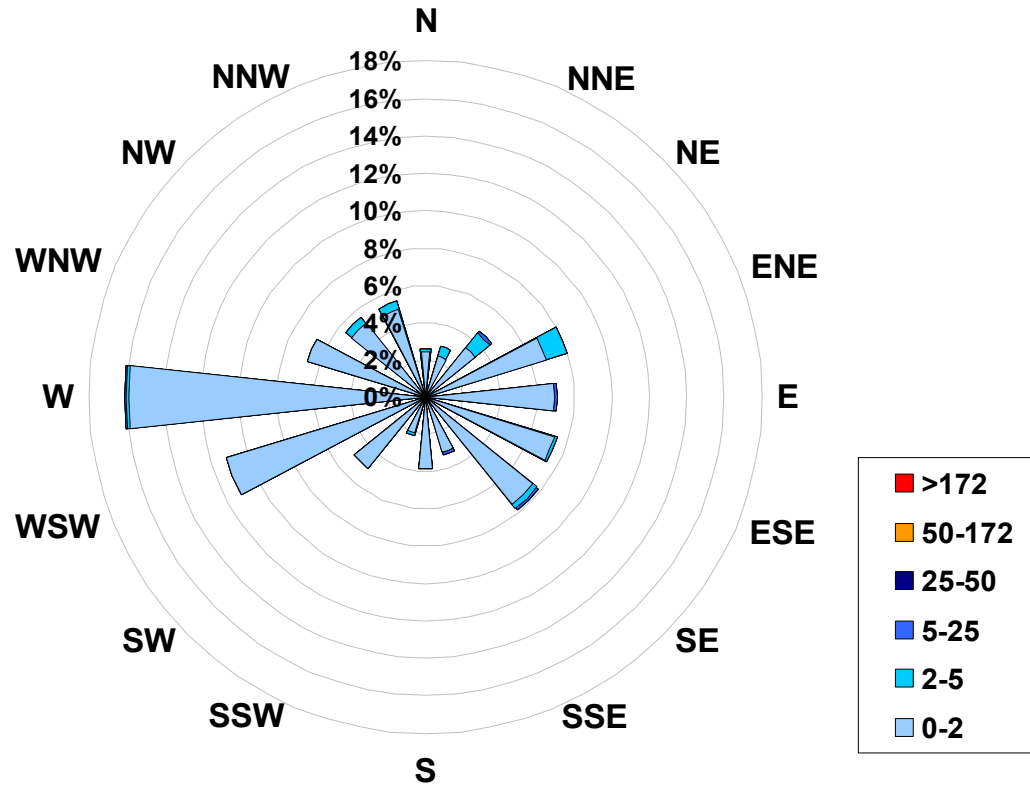


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for December 2006



Calms: 1%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		671
2	to 5		31
5	to 25		5
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			707

PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

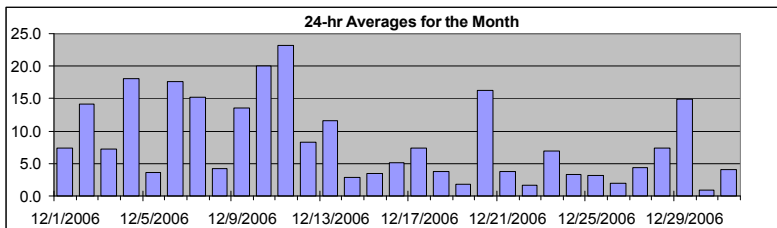
Nitrogen Dioxide (NO₂)

Monitoring Dates: December 1, 2006 to January 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:	35.4 ppb 4-Dec 18:00 19:00
Maximum 24-hr Average:	23.2 ppb 11-Dec



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.0	24.1	12.5	5.1	2.3	0.7	0.2	8.3 ppb	5.1 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-Dec-06	4	3	3	6	A	4	4	13	14	5	6	13	12	9	11	6	13	6	5	5	8	8	7	6	7.4	13.6
2-Dec-06	8	7	6	5	A	7	7	10	15	12	17	26	22	20	18	20	24	33	23	14	12	6	5	7	14.1	33.5
3-Dec-06	5	4	4	2	A	2	6	5	3	3	2	2	5	6	7	8	11	12	14	10	11	14	13	20	7.3	20.1
4-Dec-06	9	9	10	11	A	9	15	13	18	19	27	21	25	12	22	16	16	33	35	30	27	23	14	2	18.1	35.4
5-Dec-06	2	1	1	1	A	1	1	1	1	1	1	2	2	2	1	2	11	7	4	5	14	11	7	7	3.7	13.5
6-Dec-06	17	14	12	8	A	10	14	16	22	14	13	11	11	12	14	17	24	28	26	25	24	24	24	25	17.6	27.9
7-Dec-06	24	18	18	10	A	5	7	5	6	4	8	12	14	16	6	11	18	22	26	31	30	30	18	12	15.2	30.5
8-Dec-06	11	11	6	4	A	2	3	5	5	6	4	5	2	1	2	3	3	3	3	2	5	3	5	4	4.2	11.2
9-Dec-06	4	2	2	5	A	9	6	5	10	13	18	16	9	11	11	17	24	22	25	25	21	12	20	25	13.6	25.4
10-Dec-06	27	23	22	24	A	20	24	23	22	18	18	13	12	10	14	16	20	22	23	19	23	23	21	22	20.0	27.1
11-Dec-06	22	20	20	20	A	21	22	22	21	24	21	18	18	34	23	29	29	24	29	24	22	24	24	22	23.2	34.2
12-Dec-06	25	18	7	4	A	6	12	18	10	8	4	C	C	C	C	A	2	3	4	10	5	5	4	4	8.3	25.0
13-Dec-06	3	3	3	5	A	5	11	15	10	22	17	22	19	17	10	9	11	8	10	13	19	14	14	8	11.6	22.3
14-Dec-06	9	7	3	2	A	0	1	1	1	1	1	1	1	1	1	2	4	6	7	3	3	4	7	2	2.9	9.1
15-Dec-06	2	2	2	1	A	2	2	2	2	3	2	4	2	5	5	6	6	5	5	5	5	3	5	3	3.4	6.3
16-Dec-06	3	4	2	5	A	6	3	3	4	2	14	5	5	5	6	10	8	5	4	1	3	2	12	7	5.2	13.9
17-Dec-06	5	5	5	5	A	5	5	7	6	4	4	4	6	5	8	9	13	15	10	8	16	10	6	7	7.3	16.0
18-Dec-06	3	3	3	4	A	3	3	5	5	4	4	3	3	7	5	6	3	2	3	4	3	3	5	4	3.8	6.7
19-Dec-06	2	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	2	4	3	4	6	6	3	2	1.8	6.4
20-Dec-06	6	5	5	10	A	5	6	12	16	13	17	15	13	20	19	29	26	19	26	31	28	24	21	9	16.3	30.6
21-Dec-06	9	9	6	5	A	4	4	4	10	10	8	6	2	2	1	1	1	1	1	0	0	0	0	0	3.7	10.4
22-Dec-06	0	0	0	0	A	0	1	1	1	1	0	0	0	1	1	1	1	3	7	3	3	2	3	7	1.6	6.9
23-Dec-06	4	2	4	4	A	4	8	9	16	19	15	19	18	16	8	1	1	1	1	1	2	1	2	1	6.9	19.2
24-Dec-06	1	1	1	1	A	1	1	1	2	2	2	4	5	10	7	5	3	5	2	2	2	4	5	10	3.3	9.9
25-Dec-06	10	9	7	6	A	4	5	4	3	2	3	2	1	1	1	0	1	1	1	1	2	3	3	3	3.2	9.7
26-Dec-06	4	3	2	2	A	1	1	2	3	2	2	2	2	2	1	1	1	2	1	2	1	2	2	2	1.9	3.9
27-Dec-06	3	2	2	2	A	4	4	4	4	4	4	4	6	4	3	4	4	5	5	3	10	11	6	2	4.3	11.0
28-Dec-06	1	2	2	1	A	2	2	3	3	3	6	6	6	5	12	12	10	12	15	18	12	12	12	13	7.4	17.9
29-Dec-06	19	15	7	11	A	17	23	22	26	23	18	16	20	22	18	20	21	15	18	6	1	1	1	1	14.9	25.6
30-Dec-06	1	1	1	3	A	2	2	2	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0.8	2.7
31-Dec-06	1	1	2	4	A	5	5	5	4	6	9	6	5	5	7	8	6	5	4	1	1	3	3	1	4.1	8.6
Hourly Avg	7.9	6.5	5.5	5.5	N	5.3	6.8	7.8	8.5	8.0	8.7	8.6	8.2	8.7	8.1	9.0	10.3	10.6	11.0	9.9	10.3	9.3	8.8	7.7		
Hourly Max	27.1	23.1	21.6	24.4	0.0	20.8	24.0	22.5	25.6	23.7	27.5	26.4	25.0	34.2	23.4	28.8	29.0	33.5	35.4	30.6	29.5	30.1	23.9	25.1		

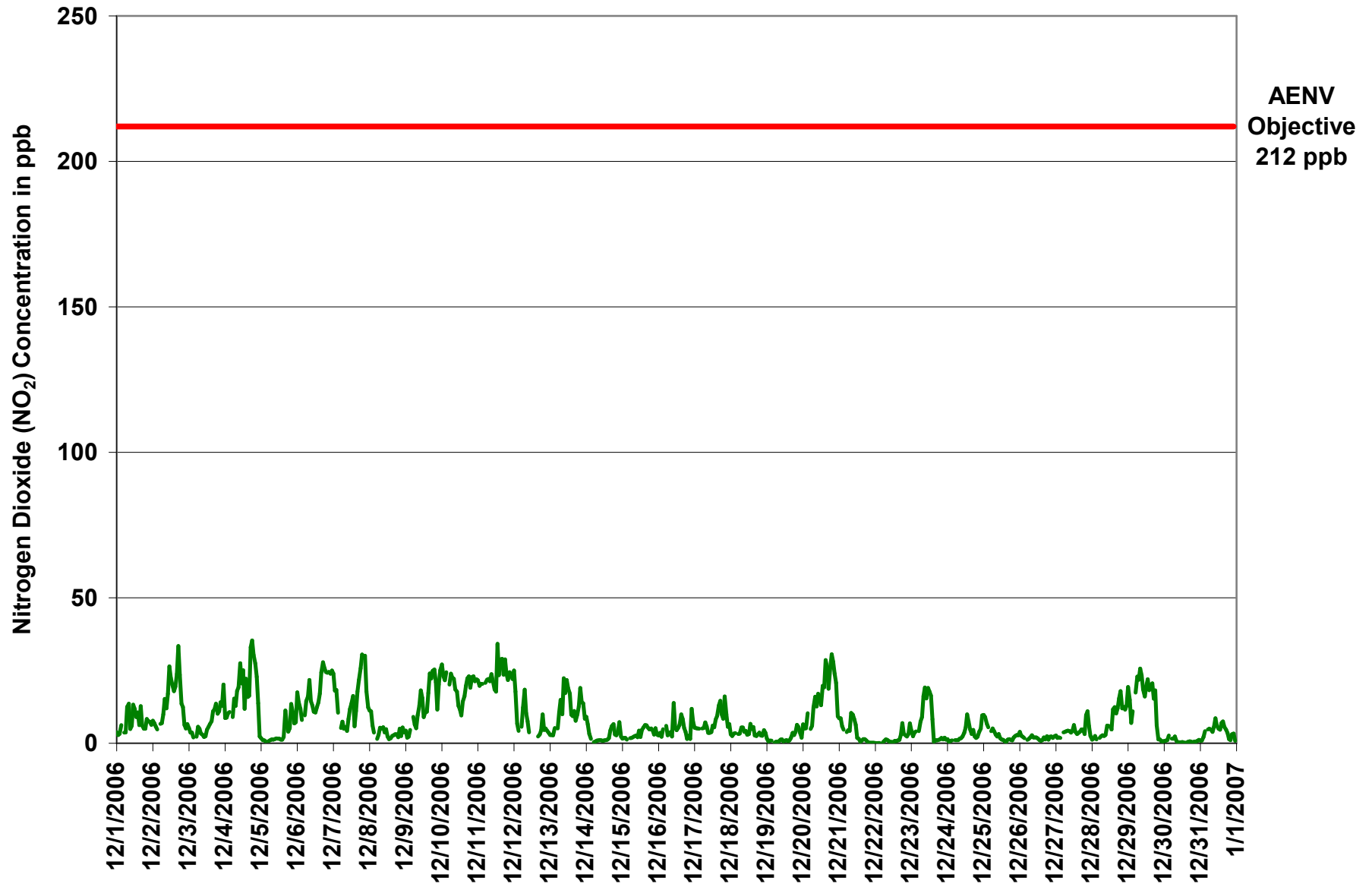


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

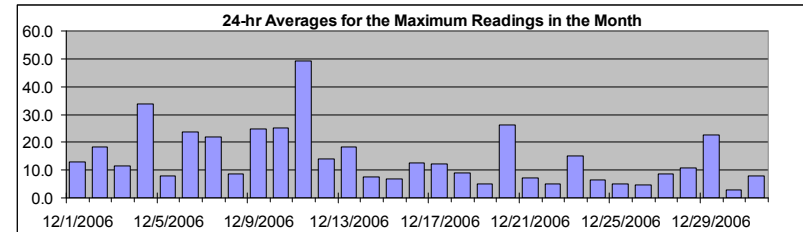
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	368.9	ppb	11-Dec	13:00 14:00
Maximum 24-hr Value:	49.3	ppb	11-Dec	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.9	37.0	21.7	8.9	4.7	2.0	1.2	14.4 ppb	8.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								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		
1-Dec-06	6	7	7	10	A	5	6	23	24	8	11	19	15	12	18	11	42	17	12	10	11	10	8	7	13.0	41.8
2-Dec-06	8	8	7	5	A	10	9	13	21	15	27	36	31	24	21	24	30	39	33	22	19	8	8	8	18.5	38.6
3-Dec-06	7	6	8	3	A	5	10	8	6	6	4	5	9	7	9	10	14	17	18	14	24	27	16	34	11.6	34.3
4-Dec-06	11	10	16	18	A	22	28	48	41	66	44	37	36	29	44	41	63	50	44	38	34	35	18	6	33.9	65.7
5-Dec-06	4	3	2	2	A	4	3	4	4	4	6	4	5	4	4	5	20	14	8	10	20	14	11	24	7.8	24.0
6-Dec-06	32	23	22	12	A	19	33	32	33	23	17	14	13	14	16	20	28	30	31	27	28	26	26	29	23.9	33.4
7-Dec-06	26	23	25	12	A	7	17	7	10	10	24	25	29	20	8	18	31	27	35	39	33	31	26	19	21.8	38.9
8-Dec-06	13	14	8	7	A	4	8	9	15	10	7	8	6	4	4	8	6	6	6	5	12	15	14	11	8.7	15.3
9-Dec-06	17	2	4	8	A	17	15	23	34	34	32	30	17	20	22	28	39	34	35	40	39	19	31	31	24.8	40.1
10-Dec-06	31	31	28	28	A	28	35	30	30	25	25	20	16	16	21	19	23	24	24	24	24	28	25	26	25.2	34.6
11-Dec-06	25	22	22	24	A	22	23	29	26	32	29	24	26	369	90	116	40	40	34	27	28	31	28	27	49.3	368.9
12-Dec-06	29	27	8	5	A	7	27	26	18	19	6	C	C	C	C	A	6	7	10	20	13	7	8	7	13.9	29.0
13-Dec-06	5	8	7	9	A	10	21	21	33	33	27	31	29	25	14	11	15	11	14	20	28	21	16	11	18.2	33.1
14-Dec-06	19	9	6	3	A	2	3	2	3	2	4	3	3	4	3	8	21	21	17	6	6	12	15	4	7.6	21.2
15-Dec-06	3	2	3	2	A	3	3	4	4	7	4	43	3	6	7	9	8	8	8	9	5	5	9	5	6.9	43.0
16-Dec-06	4	7	4	11	A	14	5	9	15	14	36	10	7	18	10	17	35	14	14	3	4	2	26	9	12.4	35.6
17-Dec-06	7	7	7	7	A	6	6	25	11	5	6	6	9	11	14	14	20	25	14	12	31	18	7	11	12.1	31.3
18-Dec-06	5	4	5	5	A	5	7	14	12	8	7	5	7	48	9	10	6	5	6	9	6	6	8	8	8.8	47.7
19-Dec-06	6	3	2	3	A	1	3	2	3	4	4	3	4	3	2	3	5	13	7	7	11	17	6	3	5.0	16.9
20-Dec-06	13	8	9	14	A	7	14	19	21	17	31	27	32	40	38	46	38	39	41	38	36	32	29	16	26.3	46.2
21-Dec-06	13	11	8	8	A	5	6	7	19	22	15	12	6	5	3	3	4	5	3	3	2	3	2	2	7.2	21.7
22-Dec-06	1	1	1	1	A	4	3	3	3	4	2	3	3	3	5	4	5	6	25	9	5	5	6	11	4.9	25.3
23-Dec-06	6	3	7	8	A	5	18	33	32	40	61	27	25	39	16	2	3	2	3	4	4	2	4	3	15.1	60.5
24-Dec-06	6	1	2	2	A	2	3	2	3	3	7	11	8	24	24	6	4	6	4	3	3	6	8	13	6.6	24.1
25-Dec-06	15	12	11	7	A	5	6	5	4	3	4	2	2	2	1	3	5	2	1	5	5	4	4	4	4.9	15.3
26-Dec-06	6	3	3	3	A	2	3	3	4	3	5	5	4	4	8	4	4	6	8	4	4	5	8	6	4.5	7.9
27-Dec-06	4	4	7	5	A	5	5	8	10	7	8	8	15	6	4	5	5	9	8	8	31	21	15	4	8.8	30.6
28-Dec-06	2	5	3	3	A	3	4	5	6	4	9	10	8	10	15	18	15	25	21	23	15	15	19	15	10.9	24.7
29-Dec-06	35	19	11	18	A	22	31	40	39	31	29	22	25	27	22	28	31	26	28	19	6	5	1	2	22.5	39.7
30-Dec-06	2	1	4	6	A	3	4	6	4	2	2	2	2	2	1	2	3	3	3	2	2	2	6	5	2.9	5.9
31-Dec-06	2	1	4	6	A	9	9	8	6	11	13	9	13	8	11	27	8	10	9	3	2	6	6	2	7.9	27.2
Hourly Avg	11.7	9.2	8.4	8.2	N	8.4	11.8	15.1	16.0	15.2	16.2	15.3	13.5	26.8	15.5	17.2	18.5	17.5	16.9	14.8	15.9	14.1	13.4	11.7		
Hourly Max	35.0	31.2	28.0	28.4	0.0	28.0	34.6	47.9	41.4	65.7	60.5	43.0	35.9	368.9	90.1	116.4	62.6	50.3	44.0	40.1	38.8	35.3	31.0	34.3		

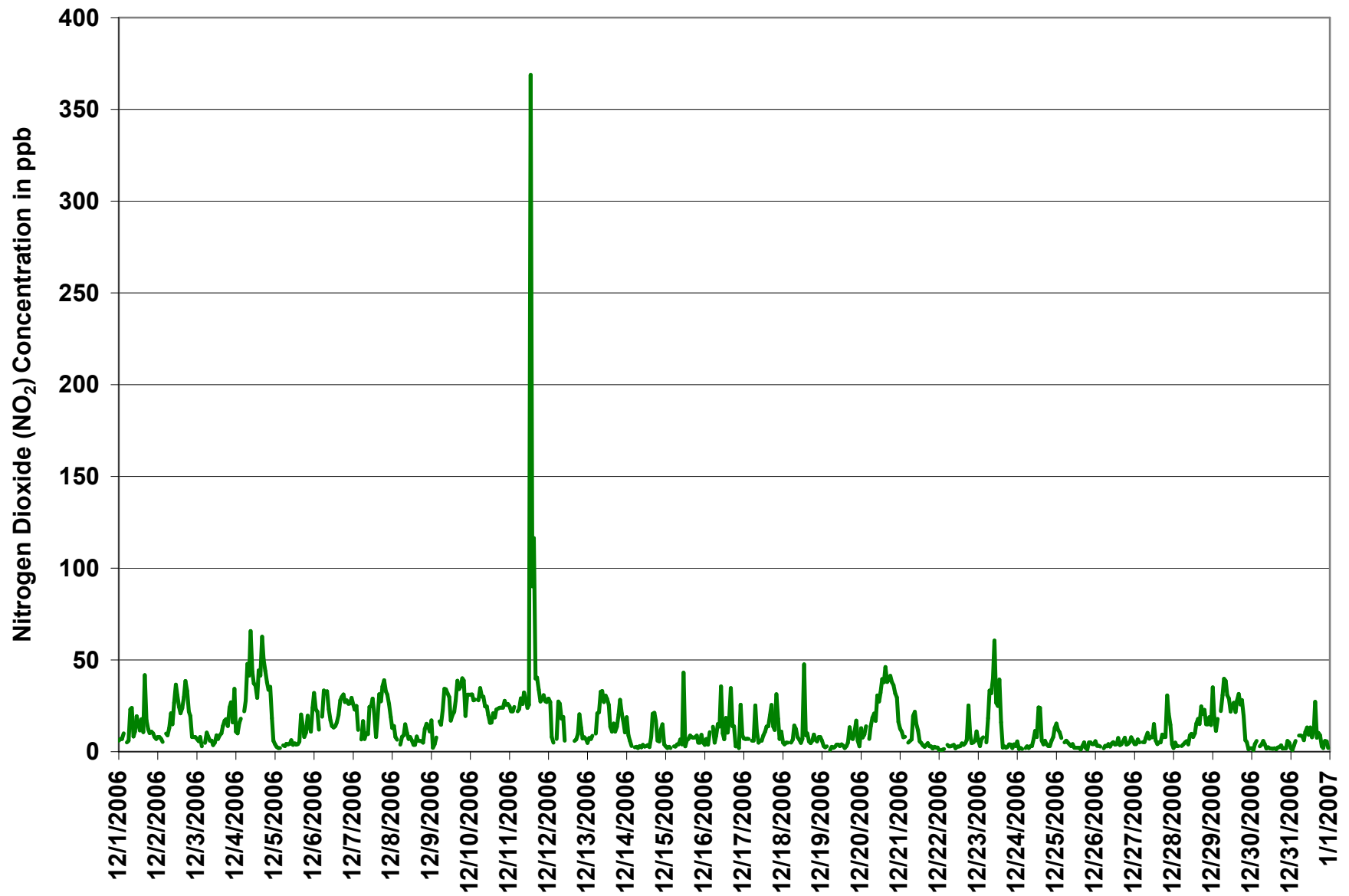
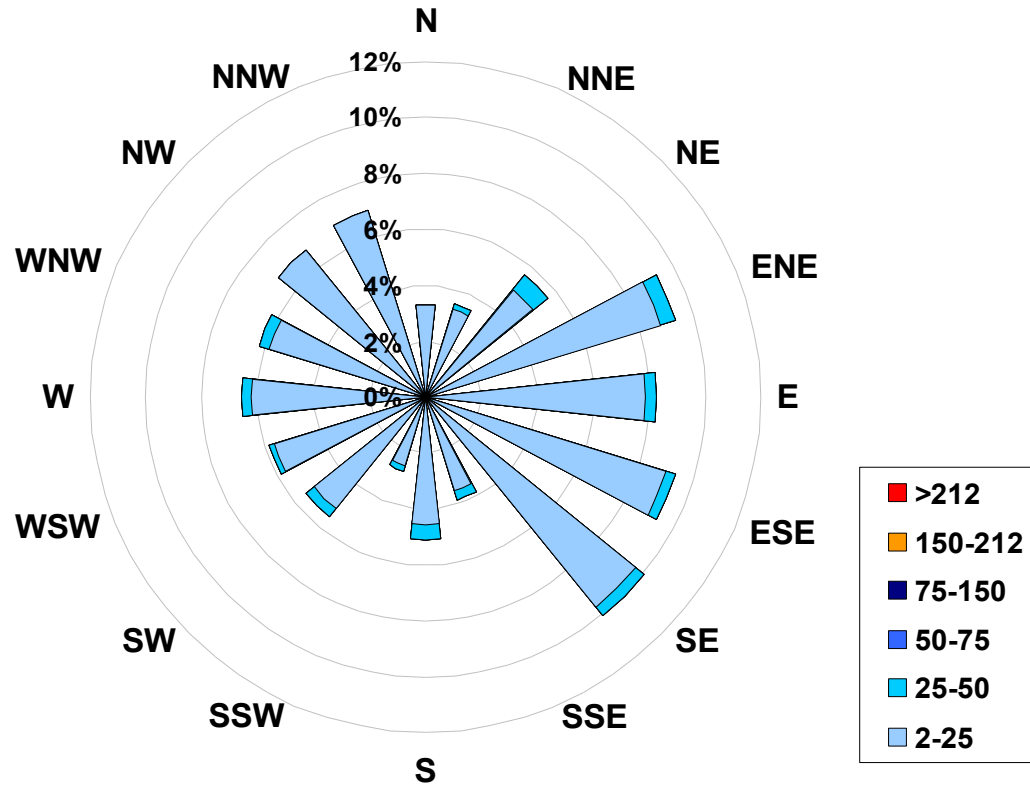


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for December 2006



Calms: 1%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		693
25	to 50		12
50	to 75		3
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			708

PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: December 1, 2006 to January 1, 2007

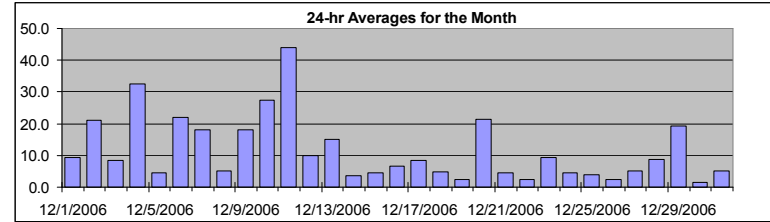
Guideline Limit: Alberta Environment:

1-hr	na	ppb
------	----	-----

24-hr	na	ppb
-------	----	-----

 Summary

Maximum 1-hr Average:	90.3	ppb	11-Dec	13:00 14:00
Maximum 24-hr Average:	44.0	ppb	11-Dec	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	69.4	34.8	15.0	6.0	2.9	1.3	1.1	11.5 ppb	6.0 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	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-Dec-06	4	3	4	7	A	4	4	13	14	6	8	21	19	15	16	8	15	7	6	6	9	8	8	7	9.3	21.4	
2-Dec-06	8	7	6	5	A	7	7	11	16	14	36	75	53	42	32	28	27	40	25	14	13	7	6	7	21.2	74.5	
3-Dec-06	6	4	4	3	A	3	6	6	4	4	3	4	7	8	9	9	12	12	14	11	11	15	13	25	8.3	24.5	
4-Dec-06	9	9	11	11	A	10	18	25	22	42	59	51	61	19	54	31	22	89	72	53	38	29	14	3	32.6	89.4	
5-Dec-06	2	2	1	1	A	1	2	2	2	2	3	3	3	2	2	3	12	7	5	6	14	11	7	8	4.4	14.1	
6-Dec-06	18	15	12	9	A	10	16	18	25	16	18	17	18	22	25	25	30	33	29	26	28	31	31	35	22.1	34.5	
7-Dec-06	27	19	22	11	A	6	8	6	6	5	14	21	25	26	8	13	19	22	30	36	31	32	18	13	18.1	35.8	
8-Dec-06	12	12	7	4	A	2	4	6	6	6	5	7	4	2	3	4	4	4	4	3	6	3	6	4	5.0	11.8	
9-Dec-06	5	2	3	5	A	10	7	6	12	21	34	28	15	18	17	24	30	25	27	29	28	12	24	30	17.9	34.1	
10-Dec-06	30	25	23	29	A	24	31	27	34	26	35	27	23	20	31	30	28	27	28	20	26	33	24	30	27.4	34.7	
11-Dec-06	26	20	22	24	A	27	31	38	43	54	72	57	42	90	70	79	72	41	49	38	27	31	34	23	44.0	90.3	
12-Dec-06	38	22	7	5	A	6	13	20	11	9	5	C	C	C	C	A	3	4	5	10	5	6	5	4	9.9	38.4	
13-Dec-06	3	3	3	6	A	6	11	16	11	28	24	40	34	30	13	11	12	8	11	13	20	15	14	9	14.9	40.0	
14-Dec-06	10	7	4	2	A	1	1	2	2	2	2	2	2	2	2	3	5	7	7	4	3	5	8	3	3.6	9.8	
15-Dec-06	2	3	3	2	A	2	2	3	3	4	3	10	4	7	8	8	7	6	5	6	5	4	6	4	4.6	9.6	
16-Dec-06	3	4	3	6	A	7	3	4	5	3	22	8	8	9	9	13	9	6	4	2	3	2	12	8	6.7	21.8	
17-Dec-06	6	6	5	5	A	6	6	8	6	4	5	6	10	8	12	12	14	15	10	9	17	11	6	7	8.5	16.8	
18-Dec-06	4	3	4	4	A	4	4	7	6	5	6	4	5	10	6	7	3	3	4	4	3	3	5	4	4.8	10.0	
19-Dec-06	2	1	1	1	A	1	1	1	1	2	2	2	2	2	1	2	3	4	4	5	7	6	4	2	2.6	7.1	
20-Dec-06	7	6	6	11	A	5	7	13	17	14	22	23	20	39	40	54	37	23	29	32	30	25	22	10	21.4	54.4	
21-Dec-06	9	9	7	5	A	5	5	5	11	11	10	9	3	3	1	2	2	2	2	2	1	1	1	1	4.6	11.2	
22-Dec-06	1	1	1	1	A	1	2	2	2	1	1	1	1	2	2	2	2	4	8	4	3	3	4	7	2.4	7.5	
23-Dec-06	5	3	4	4	A	5	8	10	17	27	21	29	28	30	11	1	2	1	2	2	2	2	2	2	9.5	30.0	
24-Dec-06	2	1	2	1	A	2	2	1	2	3	3	6	8	16	10	6	4	5	3	2	3	5	6	10	4.4	15.9	
25-Dec-06	10	10	7	6	A	5	6	5	3	3	4	3	3	2	1	1	2	2	2	1	2	3	3	3	3.8	10.5	
26-Dec-06	4	3	3	2	A	2	2	2	3	2	3	3	3	2	2	2	3	2	3	2	3	3	2	3	2.5	4.4	
27-Dec-06	3	2	2	2	A	4	5	5	5	5	5	6	10	6	4	5	5	5	5	4	10	12	6	3	5.1	11.7	
28-Dec-06	2	2	3	2	A	2	3	3	3	4	8	9	9	8	17	16	12	13	16	19	13	13	12	14	8.8	18.6	
29-Dec-06	23	15	8	12	A	18	26	28	36	31	28	25	32	35	25	31	25	16	19	7	2	2	1	1	19.4	35.9	
30-Dec-06	1	1	2	3	A	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.6	3.2	
31-Dec-06	1	2	3	5	A	5	6	5	5	7	10	7	7	7	10	10	7	5	4	2	2	4	4	1	5.1	10.3	
Hourly Avg	9.2	7.2	6.2	6.3	N	6.3	8.1	9.7	10.8	11.6	15.2	16.8	15.3	16.2	14.8	14.6	13.8	14.2	13.9	12.0	11.9	10.8	10.1	9.1			
Hourly Max	38.4	24.9	23.2	29.0	0.0	27.1	31.0	37.9	42.8	54.2	72.2	74.5	60.5	90.3	70.1	78.6	71.8	89.4	71.9	52.6	38.1	33.1	33.5	34.5			

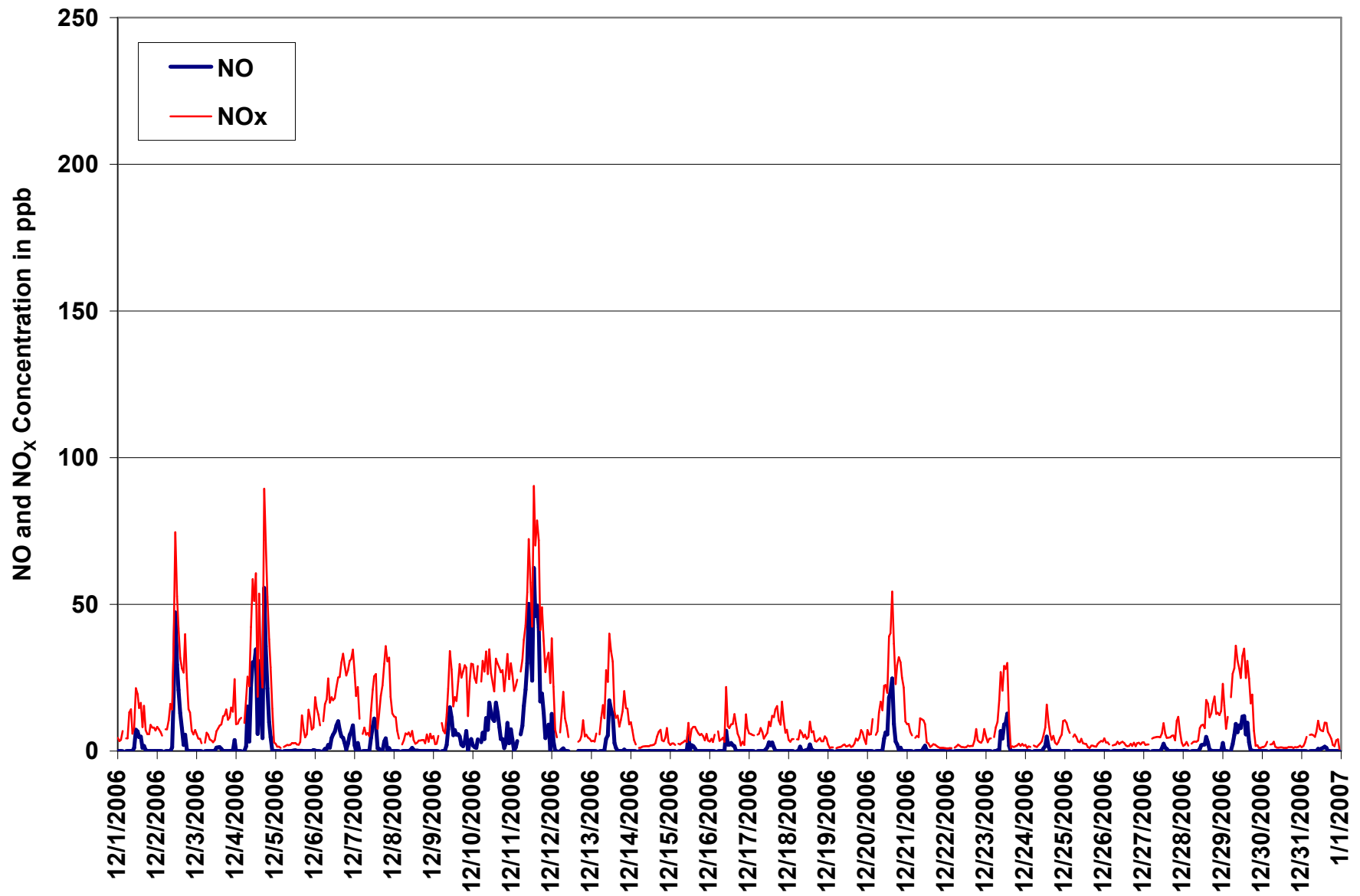


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

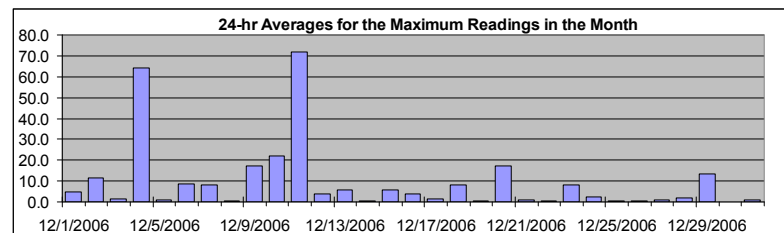
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	485.1	ppb	11-Dec	13:00 14:00
Maximum 24-hr Value:	72.0	ppb	11-Dec	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	117.3	44.5	4.7	0.7	0.0	0.0	0.0	9.3 ppb	0.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	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-Dec-06	0	0	0	0	A	0	0	0	0	1	3	13	10	7	14	3	31	26	0	0	0	0	0	0	4.7	30.7	
2-Dec-06	0	0	0	0	A	0	0	0	0	2	40	73	47	32	19	14	4	27	6	2	1	0	0	0	11.6	73.2	
3-Dec-06	0	0	0	0	A	0	0	0	0	0	0	2	3	2	2	2	0	0	1	0	0	3	0	19	1.5	19.5	
4-Dec-06	0	0	1	1	A	2	13	409	33	167	91	97	54	40	90	75	64	120	117	47	29	26	1	0	64.3	409.4	
5-Dec-06	0	0	0	0	A	1	0	1	0	1	1	1	2	2	2	2	1	0	0	0	0	0	0	6	0.8	5.7	
6-Dec-06	2	0	1	0	A	0	10	7	14	3	7	10	9	11	13	11	9	12	19	4	6	13	12	22	8.5	22.2	
7-Dec-06	6	1	11	0	A	0	0	0	0	2	33	22	31	13	2	2	3	1	33	25	3	4	1	0	8.3	33.3	
8-Dec-06	0	0	0	0	A	0	0	0	1	1	2	2	2	1	1	2	1	1	1	0	0	0	0	0	0.6	2.0	
9-Dec-06	0	0	0	0	A	0	0	9	28	45	52	24	15	22	15	20	23	16	12	27	54	1	19	20	17.4	53.7	
10-Dec-06	5	26	11	9	A	16	39	16	61	16	34	29	28	20	42	20	12	9	9	6	6	37	33	22	22.0	60.9	
11-Dec-06	22	3	5	15	A	17	16	49	42	76	88	74	49	485	178	222	87	62	51	24	22	37	30	5	72.0	485.1	
12-Dec-06	34	13	0	0	A	0	7	7	1	2	1	C	C	C	C	A	2	1	0	0	0	1	0	0	3.8	34.0	
13-Dec-06	0	0	0	0	A	0	1	0	8	14	12	34	27	26	6	2	1	0	0	1	5	0	0	0	5.9	34.3	
14-Dec-06	1	0	0	0	A	1	1	0	1	0	1	2	3	1	1	1	0	0	0	0	1	1	0	0	0.6	2.5	
15-Dec-06	0	0	0	0	A	0	0	0	1	2	1	115	1	3	3	2	1	0	0	1	0	0	0	0	5.7	115.3	
16-Dec-06	0	0	0	2	A	1	0	0	3	3	34	3	3	23	4	4	5	0	0	0	0	0	0	0	3.6	34.1	
17-Dec-06	0	0	0	0	A	0	0	2	2	0	2	3	5	5	5	4	1	3	0	0	1	0	0	0	1.4	5.3	
18-Dec-06	0	0	0	0	A	0	0	144	0	0	1	1	2	36	2	1	0	1	1	1	0	0	0	0	8.3	143.9	
19-Dec-06	0	1	0	1	A	0	1	1	0	1	1	1	2	1	1	0	0	0	0	0	0	1	0	0	0.4	1.6	
20-Dec-06	0	0	0	0	A	0	0	0	1	1	10	14	30	76	69	85	28	32	33	2	10	2	1	0	17.2	85.5	
21-Dec-06	0	0	0	0	A	0	0	0	1	0	2	5	1	1	3	1	1	1	1	0	0	1	0	0	0.7	4.7	
22-Dec-06	0	0	0	0	A	1	1	0	1	2	1	1	1	1	2	1	1	0	1	0	0	0	0	0	0.6	1.9	
23-Dec-06	0	0	0	0	A	0	1	5	4	46	40	17	18	54	5	0	0	0	0	0	0	0	0	0	8.2	53.6	
24-Dec-06	0	0	7	0	A	0	0	0	0	0	1	7	3	24	11	1	0	0	0	0	0	0	0	0	2.3	23.5	
25-Dec-06	3	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0.3	2.9	
26-Dec-06	0	0	0	0	A	0	0	0	0	0	1	2	2	2	4	1	0	0	0	0	0	0	0	0	0.5	3.7	
27-Dec-06	0	0	0	0	A	0	0	0	0	0	2	2	8	2	1	1	0	0	0	0	3	0	0	0	0.8	7.9	
28-Dec-06	0	0	0	0	A	0	0	0	0	0	1	4	3	6	8	5	2	6	4	0	0	0	0	0	1.7	7.9	
29-Dec-06	15	0	0	0	A	9	14	61	44	16	29	21	22	19	9	23	16	2	3	0	1	1	0	0	13.2	61.5	
30-Dec-06	0	0	0	0	A	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.2	1.1	
31-Dec-06	0	0	0	0	A	0	0	0	0	1	2	1	5	3	3	6	0	1	0	0	0	0	0	0	0.9	6.2	
Hourly Avg	2.8	1.4	1.1	0.9	N	1.5	3.3	23.0	7.9	13.0	15.9	19.4	12.9	30.6	17.1	17.0	9.4	10.3	9.4	4.5	4.6	4.1	3.1	3.0			
Hourly Max	34.0	25.7	10.9	14.5	0.0	16.9	39.1	409.4	60.9	167.2	91.2	115.3	54.1	485.1	177.7	221.8	86.9	120.4	117.5	47.2	53.7	37.3	32.8	22.2			

Station: Beaverlodge
 Station Owner: PASZA

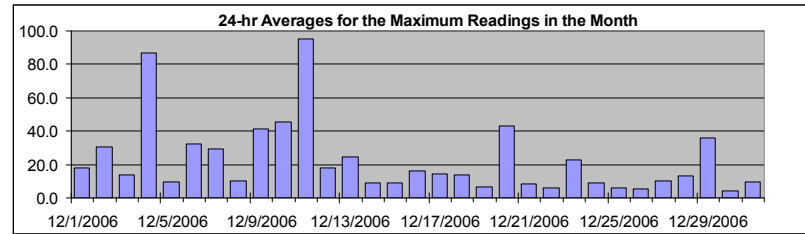
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	440.3	ppb	11-Dec	13:00 14:00
Maximum 24-hr Value:	95.1	ppb	11-Dec	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	134.5	75.4	27.3	10.7	5.7	2.9	1.9	22.5 ppb	10.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	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	24-hour Average	Daily Maximum
1-Dec-06	7	8	7	11	A	6	6	24	25	11	14	33	25	20	33	15	73	32	13	11	12	11	9	8	17.9	73.4		
2-Dec-06	9	8	8	6	A	11	10	13	22	17	67	109	77	58	41	38	33	63	40	23	22	8	9	9	30.3	109.1		
3-Dec-06	8	6	9	4	A	5	11	9	6	7	4	8	13	10	12	12	15	18	19	14	25	30	17	53	13.5	53.4		
4-Dec-06	11	11	18	20	A	25	40	275	72	208	129	135	87	68	126	112	113	166	157	79	60	60	20	7	86.9	275.0		
5-Dec-06	5	3	3	3	A	5	5	6	5	6	9	5	7	7	6	7	22	16	9	11	20	15	12	30	9.4	30.4		
6-Dec-06	34	24	23	12	A	20	43	40	47	25	24	25	23	25	29	30	38	42	49	30	34	40	36	50	32.2	50.0		
7-Dec-06	31	26	36	12	A	7	17	8	11	12	43	42	60	33	11	20	35	29	67	59	37	34	27	20	29.4	66.7		
8-Dec-06	13	15	9	7	A	5	9	10	17	12	9	11	9	6	6	11	7	7	8	6	13	16	14	11	10.0	17.1		
9-Dec-06	18	3	5	9	A	17	15	27	60	76	80	51	33	43	35	45	61	49	48	68	92	21	50	51	41.6	92.0		
10-Dec-06	36	53	39	36	A	44	72	41	87	40	56	49	43	36	60	38	35	32	32	29	29	63	46	46	45.5	87.3		
11-Dec-06	46	25	26	36	A	38	38	75	65	107	113	97	75	440	266	184	116	96	86	49	51	68	57	32	95.1	440.3		
12-Dec-06	63	40	8	6	A	8	35	33	20	22	7	C	C	C	C	A	9	8	10	21	14	9	9	8	18.2	62.8		
13-Dec-06	5	8	8	10	A	11	23	22	42	48	40	66	53	52	21	13	17	12	14	22	34	22	17	11	24.7	65.7		
14-Dec-06	19	10	7	4	A	4	3	3	4	4	6	5	6	5	4	9	22	22	17	7	7	13	15	5	8.7	22.2		
15-Dec-06	4	3	3	3	A	4	4	5	6	9	5	62	5	11	11	12	10	9	9	10	6	5	10	6	9.1	61.7		
16-Dec-06	5	8	5	13	A	16	6	9	19	17	65	14	11	36	15	22	40	14	14	4	5	3	27	9	16.4	65.4		
17-Dec-06	8	7	7	8	A	7	7	29	13	6	9	10	15	18	20	19	22	29	14	13	33	18	8	12	14.3	32.7		
18-Dec-06	5	5	5	6	A	5	7	66	13	9	8	6	11	85	12	12	7	6	7	11	7	7	9	9	13.7	85.3		
19-Dec-06	7	5	3	4	A	2	5	4	4	6	6	5	7	6	3	4	6	14	9	8	12	19	7	4	6.4	18.8		
20-Dec-06	13	8	10	15	A	8	15	20	22	18	41	41	57	114	107	132	66	67	74	41	47	33	32	17	43.4	131.8		
21-Dec-06	13	11	8	9	A	6	7	7	21	23	19	16	8	7	7	5	5	6	4	4	3	4	4	4	8.6	22.7		
22-Dec-06	1	2	2	2	A	5	5	4	5	6	3	4	5	6	7	5	5	7	27	10	5	6	7	11	6.1	27.1		
23-Dec-06	6	4	7	8	A	5	20	39	36	85	88	43	42	91	22	4	4	3	3	5	4	3	5	4	23.0	91.3		
24-Dec-06	6	2	2	2	A	3	3	3	3	4	8	16	12	45	35	7	5	7	5	3	4	6	9	14	8.9	45.4		
25-Dec-06	19	13	12	8	A	6	7	5	5	4	6	4	4	3	3	2	3	6	2	2	6	6	5	5	5.9	19.3		
26-Dec-06	7	4	3	3	A	2	4	3	5	4	6	8	6	7	12	5	5	6	8	5	5	5	8	7	5.5	11.9		
27-Dec-06	5	5	7	6	A	5	6	9	11	8	10	10	24	9	5	7	6	10	9	9	35	22	16	5	10.3	34.8		
28-Dec-06	3	5	4	3	A	4	5	6	7	5	11	14	13	17	23	23	18	28	26	24	16	16	21	15	13.3	28.5		
29-Dec-06	50	20	12	19	A	30	45	99	83	47	59	43	45	46	31	51	48	28	32	20	8	7	2	3	35.9	98.6		
30-Dec-06	3	2	5	6	A	4	5	7	6	3	4	3	3	3	4	3	4	5	3	3	3	3	7	6	3.9	6.9		
31-Dec-06	3	2	4	7	A	9	10	9	7	12	16	11	19	12	15	34	9	12	10	4	3	6	6	2	9.6	34.0		
Hourly Avg	14.9	11.1	9.8	9.6	N	10.5	15.6	29.3	24.1	27.7	31.1	31.6	26.5	43.8	32.7	29.2	27.7	27.3	26.7	19.5	20.9	18.6	16.7	15.2				
Hourly Max	62.8	53.4	39.4	36.4	0.0	44.0	71.7	275.0	87.3	208.0	129.0	134.7	87.3	440.3	265.5	184.4	116.3	166.1	157.0	79.4	92.0	67.8	56.6	53.4				

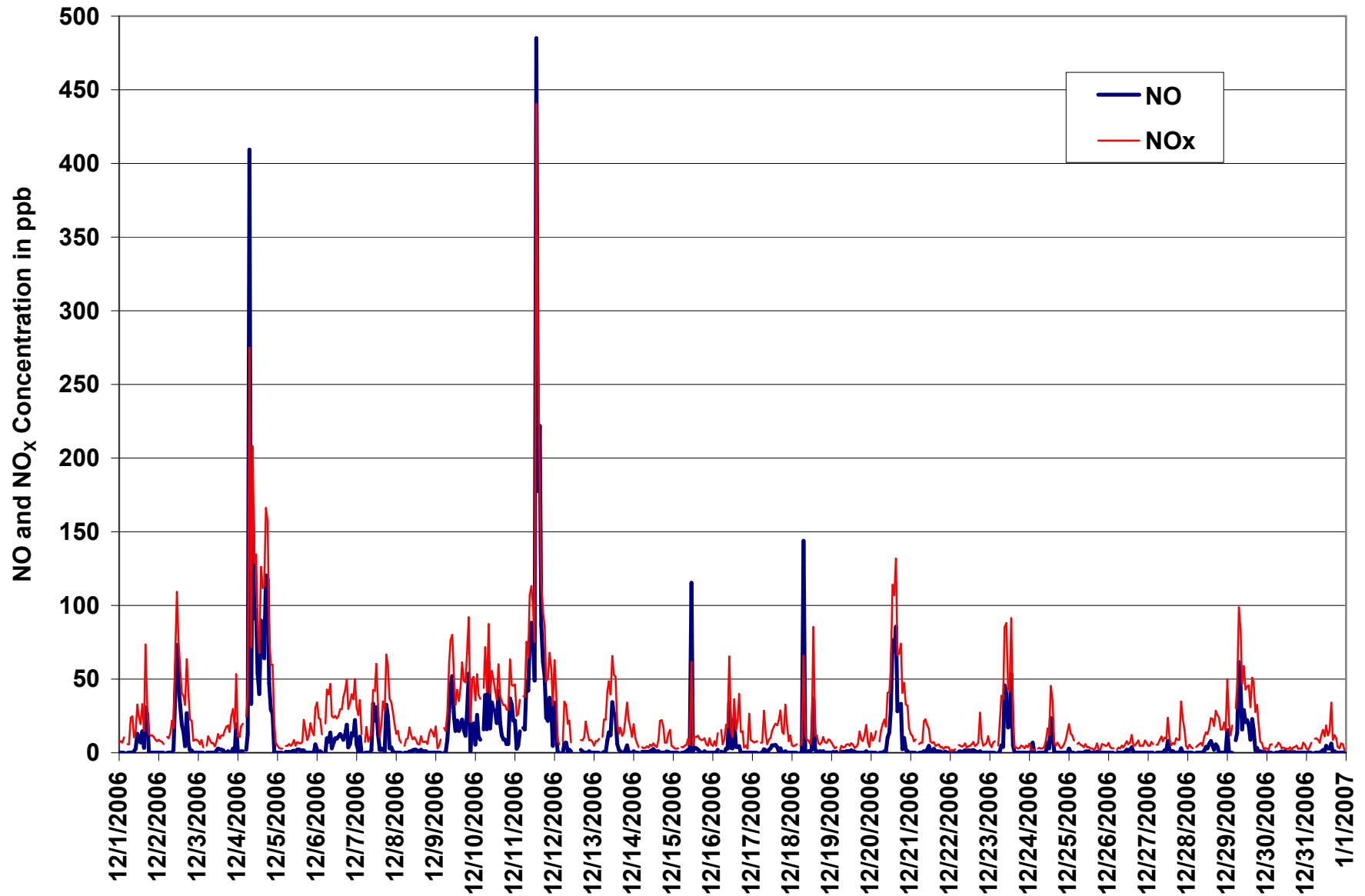


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

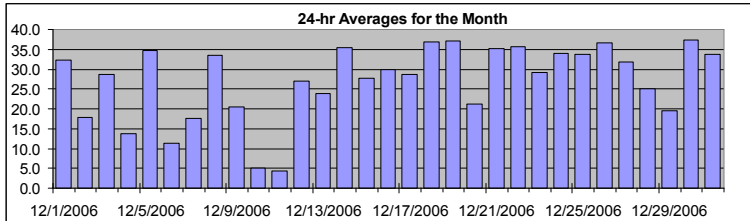
Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 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:	40.9 ppb	31-Dec	20:00 21:00	
Maximum 24-hr Average:	37.3 ppb	30-Dec		



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.8	38.4	35.9	31.0	19.8	2.9	0.6	27.1 ppb	31.0 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		
1-Dec-06	38	39	39	37	A	39	38	30	29	37	36	31	32	33	30	33	26	31	32	31	27	26	24	24	32.3	39.5
2-Dec-06	22	23	24	26	A	24	23	19	14	17	13	8	10	11	12	12	9	2	9	21	22	31	32	28	17.9	31.6
3-Dec-06	28	30	34	37	A	36	33	34	35	36	37	35	34	33	32	30	26	23	19	23	22	18	11	28.8	36.7	
4-Dec-06	20	21	19	17	A	23	15	18	13	17	7	13	9	23	14	19	19	5	1	0	1	3	11	28	13.8	28.4
5-Dec-06	33	33	34	35	A	38	38	38	38	38	38	38	38	39	39	38	30	34	36	34	25	27	30	27	34.7	39.1
6-Dec-06	18	19	19	22	A	20	16	12	9	14	15	17	18	17	15	12	5	1	3	5	2	1	0	0	11.3	22.5
7-Dec-06	1	7	6	17	A	28	27	29	31	32	27	21	20	19	31	28	22	14	8	2	3	2	12	18	17.6	32.4
8-Dec-06	20	21	28	35	A	39	37	33	33	33	35	33	35	37	35	34	34	36	37	38	34	37	33	36	33.6	38.7
9-Dec-06	35	38	37	34	A	25	28	27	18	17	15	18	26	25	24	18	12	12	10	8	12	18	11	5	20.6	38.1
10-Dec-06	3	6	6	3	A	6	3	3	3	5	8	12	13	12	10	7	3	1	1	6	2	1	1	1	5.1	13.4
11-Dec-06	2	2	1	1	A	1	1	1	1	2	4	7	10	16	11	5	3	13	1	0	7	5	3	6	4.3	15.6
12-Dec-06	2	11	23	26	A	24	17	8	16	23	30	32	34	33	30	32	38	37	35	30	35	34	35	35	27.0	37.6
13-Dec-06	37	36	37	34	A	34	26	20	25	12	17	15	C	C	C	A	24	27	23	19	13	16	16	21	23.9	36.9
14-Dec-06	23	27	33	36	A	39	39	39	38	38	38	38	38	38	38	38	36	34	32	36	36	35	31	37	35.5	38.7
15-Dec-06	37	36	36	37	A	35	32	27	25	26	27	25	27	22	21	20	21	24	27	26	26	27	25	28	27.6	37.2
16-Dec-06	28	27	27	25	A	23	27	29	31	34	22	30	31	31	32	29	30	33	35	37	36	36	26	30	29.9	36.8
17-Dec-06	31	31	31	30	A	30	29	27	28	31	31	32	30	31	28	27	22	21	26	28	22	28	32	31	28.6	32.1
18-Dec-06	35	35	35	34	A	36	35	34	34	36	36	38	38	35	36	36	40	40	39	39	40	40	38	38	36.8	39.9
19-Dec-06	40	40	39	38	A	40	39	39	38	37	37	38	38	38	38	38	37	35	36	34	31	32	34	36	37.0	40.1
20-Dec-06	30	31	31	26	A	33	33	26	21	24	19	19	25	18	20	10	12	20	13	8	10	14	17	29	21.3	33.1
21-Dec-06	30	29	33	35	A	36	36	37	29	28	30	33	39	39	39	38	37	37	37	37	38	38	37	38	35.2	39.0
22-Dec-06	38	38	37	37	A	37	36	35	36	36	36	37	37	36	37	37	36	35	31	34	34	35	34	29	35.6	37.9
23-Dec-06	32	35	33	33	A	32	28	25	18	16	20	15	17	22	29	36	35	36	35	35	34	35	34	34	29.2	36.4
24-Dec-06	34	36	35	36	A	35	36	36	35	35	35	34	31	28	31	33	34	32	37	37	36	34	31	26	33.9	37.1
25-Dec-06	26	25	27	28	A	29	28	29	32	34	35	36	36	37	39	39	38	38	38	38	37	36	35	35	33.8	39.2
26-Dec-06	34	35	35	36	A	36	36	35	35	37	37	37	38	38	38	38	37	38	36	37	36	36	37	36	36.6	38.3
27-Dec-06	35	36	36	36	A	31	31	31	30	31	31	31	30	32	33	33	33	32	32	33	27	24	29	31	31.7	36.1
28-Dec-06	32	32	32	33	A	32	30	30	30	30	26	26	26	27	23	23	22	20	19	15	19	18	19	15	25.1	32.5
29-Dec-06	11	19	28	24	A	11	6	9	6	8	15	17	13	12	15	14	15	20	16	33	40	39	39	39	19.5	39.9
30-Dec-06	38	37	37	36	A	36	37	36	38	38	38	38	38	38	38	37	37	37	38	38	37	37	37	37	37.3	38.2
31-Dec-06	37	36	35	32	A	30	30	29	30	28	26	31	32	33	31	31	34	35	37	40	41	38	39	41	33.7	40.9
Hourly Avg	26.7	28.2	29.2	29.5	N	29.5	28.0	26.7	25.9	26.8	26.5	26.9	28.1	28.5	28.4	27.6	26.0	25.9	25.1	25.9	25.3	25.8	25.9	26.7		
Hourly Max	39.5	40.1	39.2	37.8	0.0	39.7	38.8	38.6	38.3	38.3	38.3	38.2	38.9	39.0	39.1	39.2	39.5	39.8	39.4	39.8	40.9	39.9	38.9	40.9		

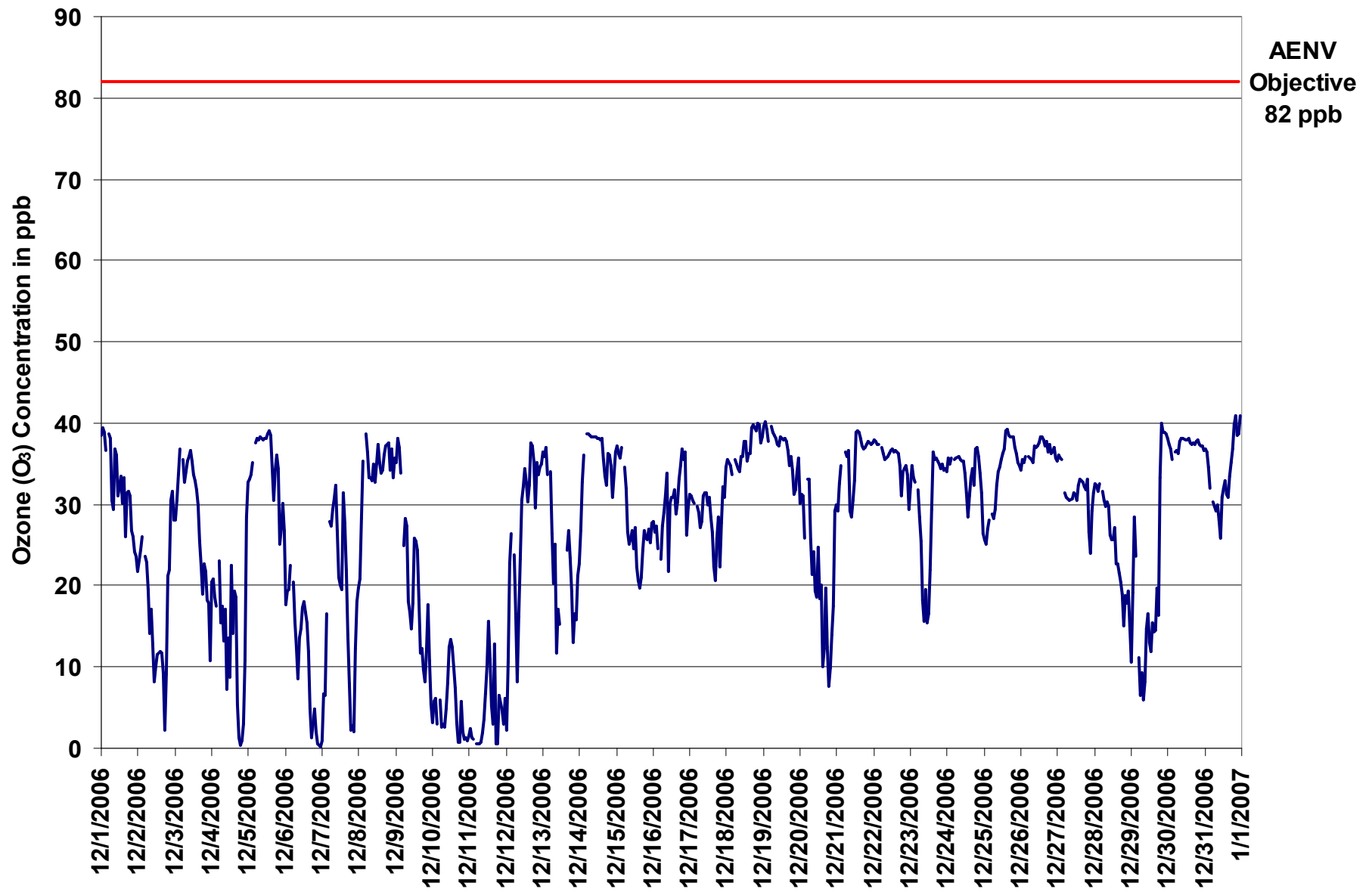


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

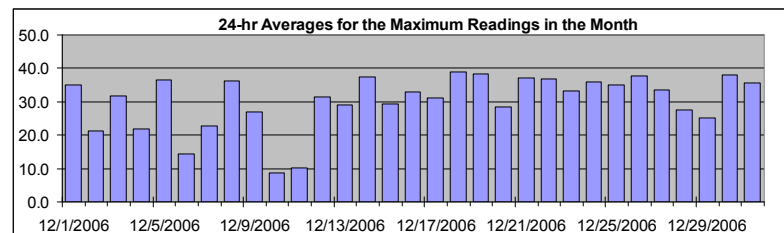
Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	42.1 ppb	18-Dec	20:00 21:00
Maximum 24-hr Value:	38.9 ppb	18-Dec	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	41.1	39.6	37.5	33.4	26.0	7.5	1.3	30.3 ppb	33.4 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-Dec-06	40	41	41	40	A	39	40	36	35	38	38	37	35	37	34	34	34	33	33	32	29	28	25	24	35.0	40.8	
2-Dec-06	23	24	26	27	A	27	23	21	18	20	21	15	15	14	15	15	13	7	12	25	30	33	33	32	21.3	33.4	
3-Dec-06	30	36	38	38	A	37	35	35	37	38	38	36	36	34	34	32	29	26	21	27	26	23	22	21	31.6	38.4	
4-Dec-06	22	22	21	22	A	29	29	26	29	30	17	28	24	28	29	28	24	25	6	1	3	8	25	31	22.0	31.3	
5-Dec-06	34	34	35	36	A	39	39	39	39	39	39	39	39	40	40	40	38	37	37	33	33	30	31	29	36.7	39.7	
6-Dec-06	23	22	22	27	A	24	21	17	17	17	17	18	19	18	17	16	10	3	7	7	4	2	1	1	14.3	26.9	
7-Dec-06	2	11	16	19	A	32	32	33	32	35	36	34	29	29	34	35	29	17	12	6	4	7	16	24	22.8	35.6	
8-Dec-06	24	25	29	40	A	40	38	37	35	37	37	34	37	38	37	36	36	37	39	39	38	39	37	39	36.1	39.7	
9-Dec-06	39	39	38	35	A	29	31	32	24	26	27	25	31	31	28	27	22	22	20	16	21	21	19	14	26.9	39.2	
10-Dec-06	12	10	11	8	A	13	5	8	7	9	10	16	16	14	13	10	7	1	2	9	7	6	3	2	8.6	16.2	
11-Dec-06	3	4	2	2	A	1	1	1	1	3	5	11	17	30	31	24	12	31	4	2	14	11	13	13	10.3	31.3	
12-Dec-06	11	22	26	27	A	26	25	19	25	30	32	36	37	34	34	38	39	39	38	36	38	36	36	36	31.3	38.9	
13-Dec-06	38	38	39	36	A	36	33	24	30	30	24	26	C	C	C	A	28	29	27	22	22	19	19	29	28.9	38.8	
14-Dec-06	29	30	35	39	A	39	39	39	39	39	39	39	39	39	39	39	39	36	36	38	39	37	35	37	37.4	39.5	
15-Dec-06	38	37	37	37	A	35	34	29	26	27	28	28	28	27	22	21	23	28	28	27	27	28	27	29	29.2	37.7	
16-Dec-06	29	28	28	27	A	25	29	33	33	36	31	32	32	32	32	36	33	36	38	38	38	36	37	36	31	32.8	38.2
17-Dec-06	32	33	31	31	A	31	30	29	29	33	32	33	32	33	33	29	26	25	27	32	31	35	35	34	31.2	35.2	
18-Dec-06	36	36	37	38	A	36	37	38	37	39	38	40	39	39	38	40	41	41	41	41	42	42	40	40	38.9	42.1	
19-Dec-06	41	41	40	39	A	40	40	39	39	38	38	39	39	39	39	39	38	38	38	37	37	34	36	37	38.4	41.1	
20-Dec-06	37	32	32	28	A	35	37	31	24	27	26	22	32	35	34	26	31	32	25	14	21	22	22	33	28.6	37.1	
21-Dec-06	33	31	34	37	A	38	38	38	37	33	36	37	40	40	39	39	38	38	38	38	38	38	38	38	37.1	40.4	
22-Dec-06	38	38	38	37	A	37	37	37	36	37	37	37	37	37	37	38	38	37	37	36	38	35	36	35	32	36.7	38.3
23-Dec-06	34	36	34	35	A	33	33	31	29	27	26	26	29	32	37	37	36	36	36	36	36	35	36	36	36	33.3	37.1
24-Dec-06	35	36	36	36	A	36	37	37	37	36	37	37	36	35	36	34	36	37	38	38	37	36	35	30	35.9	38.1	
25-Dec-06	28	28	29	30	A	31	29	32	33	35	36	37	37	39	40	40	39	39	39	39	39	37	37	36	35.1	39.8	
26-Dec-06	36	37	36	37	A	37	37	36	36	38	38	38	39	39	39	39	38	39	38	38	38	37	38	37	37.6	39.2	
27-Dec-06	38	38	37	36	A	34	32	31	31	32	32	32	32	33	34	34	33	33	33	35	32	31	33	33	33.5	37.8	
28-Dec-06	33	33	33	34	A	33	31	31	31	31	30	27	27	28	26	29	23	25	24	24	21	19	22	18	27.5	33.8	
29-Dec-06	17	24	31	33	A	12	17	19	17	22	23	20	19	17	20	20	23	24	23	42	41	40	39	39	25.3	41.7	
30-Dec-06	39	38	37	37	A	38	38	38	38	39	38	38	38	38	38	38	38	38	38	38	39	38	38	37	38.1	38.8	
31-Dec-06	37	37	36	34	A	32	31	31	32	31	29	33	34	34	33	34	35	38	41	41	42	40	40	42	35.5	42.1	
Hourly Avg	29.4	30.3	31.1	31.6	N	31.4	30.9	29.9	29.5	30.6	30.2	30.6	31.4	32.2	32.2	31.4	30.1	30.0	28.2	28.8	29.0	28.6	29.2	29.5			
Hourly Max	41.1	40.8	40.6	39.7	0.0	40.2	39.9	39.2	39.2	39.1	39.2	39.5	40.3	40.4	39.7	40.1	40.7	40.8	40.7	41.7	42.1	41.6	39.7	41.6			

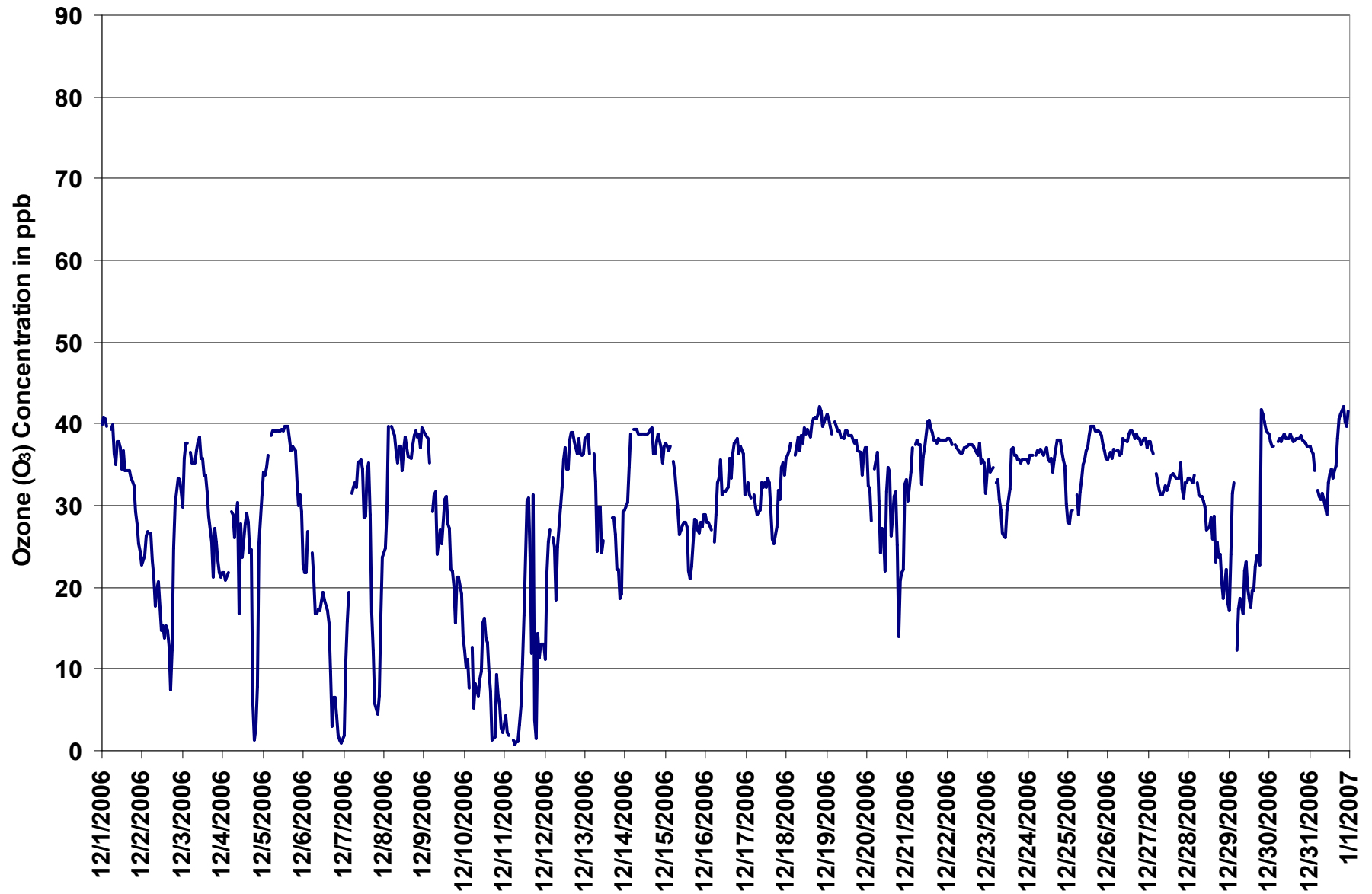
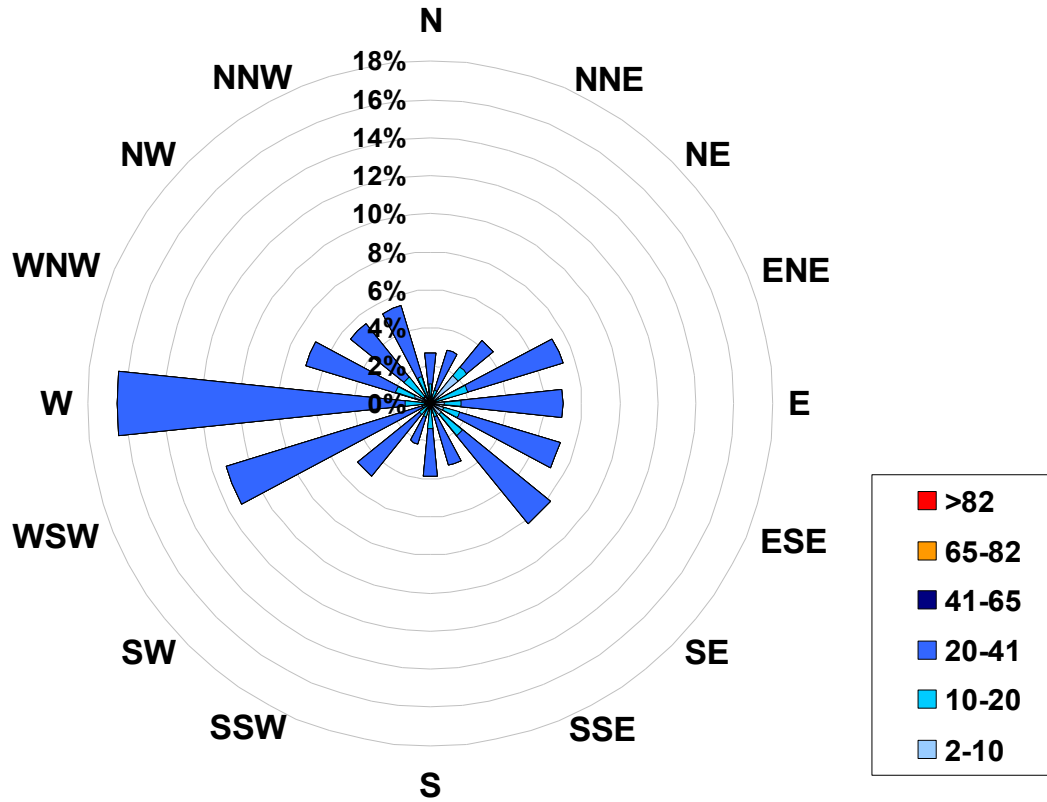


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for December 2006



Calms: 1%

Frequency Distribution of O ₃ in ppb			
Range			Frequency (hrs)
2.0	<	10	77
10	to	20	102
20	to	41	530
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			709

PASZA - Beaverlodge - Ozone Eight Hour Average Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station: Beaverlodge
 Station Owner: PASZA

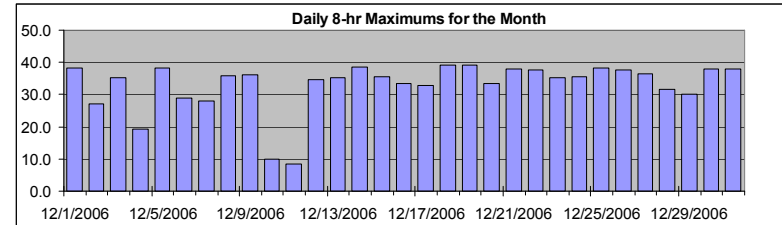
Monitoring Dates: December 1, 2006 to January 1, 2007

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

Summary

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	39.2	ppb	19-Dec 1:00 2:00

Percentile							
99	95	75	50	25	5	1	
38.9	37.9	35.3	30.8	20.2	5.7	1.5	



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-Dec-06	37	37	38	38	38	38	38	37	36	36	35	34	34	33	32	33	32	32	31	31	30	30	29	28	38.2
2-Dec-06	27	26	25	24	24	24	24	23	22	21	19	17	16	14	13	12	12	10	9	11	12	15	17	19	27.0
3-Dec-06	22	25	28	30	31	32	32	33	34	35	35	35	35	34	34	34	33	31	29	27	26	24	22	20	35.3
4-Dec-06	19	19	19	18	18	18	18	19	18	17	16	15	14	14	14	15	15	14	13	11	10	8	7	9	19.2
5-Dec-06	10	14	18	22	25	30	34	35	36	37	38	38	38	38	38	38	37	37	37	36	35	33	32	31	38.4
6-Dec-06	29	27	25	23	23	22	20	18	17	16	15	15	15	15	15	15	14	13	11	9	8	5	4	2	28.9
7-Dec-06	2	2	3	4	5	8	12	16	21	24	27	28	27	26	26	26	25	23	20	18	16	14	11	10	27.9
8-Dec-06	10	11	13	17	19	25	28	30	32	34	35	35	35	34	34	34	35	35	35	36	36	36	35	36	35.8
9-Dec-06	36	36	36	36	36	34	33	32	30	27	23	21	22	22	21	20	19	19	18	17	15	14	13	11	36.0
10-Dec-06	10	9	9	8	7	6	5	4	4	4	4	6	7	7	8	9	9	8	8	7	5	4	3	2	9.9
11-Dec-06	2	2	2	1	1	1	1	1	1	1	1	2	3	5	6	7	7	8	8	7	7	5	4	5	8.4
12-Dec-06	5	4	7	10	11	14	15	16	18	20	21	21	23	24	26	29	32	33	34	34	34	34	34	35	34.8
13-Dec-06	35	34	35	35	35	35	34	32	30	27	24	21	21	N	N	N	N	N	N	N	N	N	20	20	35.2
14-Dec-06	20	20	21	23	25	28	31	33	36	37	38	38	38	38	38	38	38	37	37	36	36	36	35	34	38.4
15-Dec-06	35	35	35	36	35	35	36	34	32	31	30	28	28	26	25	24	24	23	23	23	23	24	24	25	35.6
16-Dec-06	26	27	27	27	27	26	26	27	27	28	27	28	28	29	30	30	30	30	31	32	33	33	33	33	33.4
17-Dec-06	33	33	32	31	31	30	30	30	29	29	30	30	30	30	30	30	29	28	27	27	26	25	26	26	32.9
18-Dec-06	28	30	31	31	33	34	34	35	35	35	36	36	36	36	36	36	37	37	38	38	38	39	39	39	39.2
19-Dec-06	39	39	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38	37	37	37	36	35	35	34	39.2
20-Dec-06	33	33	32	31	31	32	31	30	29	28	26	25	25	23	22	20	18	18	17	16	14	13	13	15	33.5
21-Dec-06	18	19	21	25	27	30	33	34	34	33	33	33	34	34	34	34	35	37	37	38	38	38	37	37	37.9
22-Dec-06	37	38	38	38	38	38	37	37	37	36	36	36	36	36	36	36	36	36	36	35	35	35	34	34	37.6
23-Dec-06	33	33	33	33	33	33	32	31	29	26	25	22	21	20	20	22	24	26	28	31	33	35	35	35	35.1
24-Dec-06	35	35	35	35	35	35	35	35	36	35	36	35	35	34	33	33	33	33	33	33	34	34	34	33	35.5
25-Dec-06	32	31	30	29	28	27	27	27	28	30	31	32	32	33	35	36	37	37	38	38	38	38	38	37	38.2
26-Dec-06	37	36	36	35	35	35	35	35	36	36	36	36	36	37	37	37	38	38	38	38	37	37	37	37	37.7
27-Dec-06	37	36	36	36	36	35	34	34	33	32	31	31	31	31	31	32	32	32	32	32	31	30	30	30	36.5
28-Dec-06	30	30	30	30	31	32	32	32	31	31	30	29	29	28	27	26	25	24	23	22	21	20	19	18	31.8
29-Dec-06	17	17	18	19	19	18	16	16	15	13	11	10	11	11	12	12	14	15	15	17	21	24	27	30	30.0
30-Dec-06	33	35	38	38	38	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	37	37	38.1
31-Dec-06	37	37	37	36	36	35	34	33	32	31	29	29	30	30	30	30	31	32	33	34	35	36	37	38	38.0

Hourly Max 39.2 39.2 39.2 39.0 38.9 38.9 39.0 39.1 38.9 38.5 38.2 38.4 38.4 38.3 38.3 38.4 37.9 37.7 37.8 38.1 38.2 38.8 38.9 39.2

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

Station: Beaverlodge
 Station Owner: PASZA

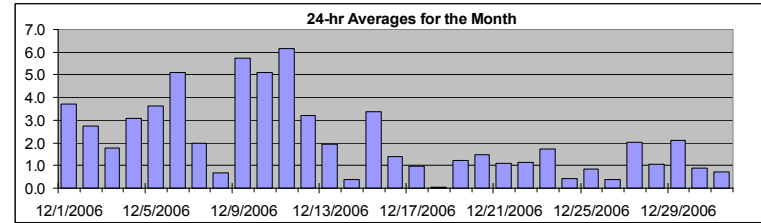
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 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:	17.4 μg/m ³	9-Dec	6:00 7:00
Maximum 24-hr Value:	6.1 μg/m ³	11-Dec	



AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	1 hrs	AMD Operational Uptime:	99.3%
Percentile	99	95	75
	10.7	6.9	3.2
	50	25	5
	1.4	0.1	0.0
	0.0	0.0	0.0
	1	Average / Median	
	2.1	1 μg/m ³	
	Geomean	1.4 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																								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-Dec-06	5	5	4	3	3	3	3	3	4	4	3	5	6	4	3	5	4	3	4	4	3	3	3	3	3	2	3.7	5.6
2-Dec-06	3	2	2	1	0	0	1	1	1	2	3	9	6	5	4	4	4	3	2	4	3	2	1	1	1	2.8	9.4	
3-Dec-06	2	2	2	2	1	2	0	1	0	0	1	1	1	0	0	1	2	2	3	4	2	3	5	4	4	1.8	5.2	
4-Dec-06	2	1	0	2	1	1	0	3	1	5	4	5	6	2	4	3	2	9	6	4	3	2	3	2	2	3.1	9.4	
5-Dec-06	1	0	0	3	1	1	0	0	0	2	1	0	0	1	1	0	9	11	9	11	12	11	9	5	3.6	11.6		
6-Dec-06	8	7	5	5	3	4	4	3	4	4	4	4	4	4	4	4	5	6	7	6	10	7	6	5	4	5.1	9.9	
7-Dec-06	2	2	1	3	1	1	0	1	0	0	3	1	1	1	0	2	5	3	3	5	4	4	3	3	2.0	5.3		
8-Dec-06	2	2	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	1	0	1	0	3	1	0.7	2.5	
9-Dec-06	9	8	6	13	8	8	17	5	0	2	4	5	3	0	3	3	7	5	7	5	7	2	6	5	5.7	17.4		
10-Dec-06	7	6	6	5	5	6	6	5	5	5	7	6	4	1	3	5	4	5	6	5	7	4	5	5	5.1	7.0		
11-Dec-06	6	5	5	7	5	6	7	9	11	9	13	10	7	5	0	7	7	2	4	6	4	5	5	4	6.1	13.4		
12-Dec-06	5	8	10	6	2	2	5	7	11	7	4	3	D	0	1	D	0	0	0	0	0	0	0	0	3.2	10.9		
13-Dec-06	0	D	0	D	0	0	0	0	1	3	4	6	5	8	4	C	0	0	1	2	3	1	1	2	2.0	7.8		
14-Dec-06	0	1	1	0	0	0	0	0	2	0	1	3	0	0	0	0	D	1	0	0	0	0	0	0	0.4	3.2		
15-Dec-06	0	2	3	1	2	2	3	4	4	5	6	4	3	5	8	7	5	3	2	2	2	3	2	3	3.4	7.7		
16-Dec-06	2	2	2	2	2	2	3	2	2	1	2	3	2	0	1	0	1	0	0	0	1	1	1	2	1.4	3.4		
17-Dec-06	3	1	0	1	1	1	0	0	0	1	2	0	0	0	0	1	3	3	1	2	1	1	0	0	1.0	2.8		
18-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4		
19-Dec-06	2	2	5	1	3	4	4	1	0	0	0	1	2	0	2	0	0	0	0	0	0	1	1	0	1.2	4.7		
20-Dec-06	1	1	0	1	0	0	0	0	1	0	3	4	2	4	2	4	3	2	1	2	2	2	1	0	1.5	4.4		
21-Dec-06	0	0	0	0	0	0	0	0	3	1	2	3	0	0	0	1	0	3	2	1	6	1	2	0	1.1	6.1		
22-Dec-06	1	3	2	2	2	1	0	1	1	2	1	1	3	1	3	0	0	0	0	0	0	0	1	0	1.1	3.1		
23-Dec-06	0	0	0	0	0	0	0	1	3	4	2	2	4	4	2	5	4	1	3	2	0	1	2	1	1.7	5.4		
24-Dec-06	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0.4	2.4		
25-Dec-06	0	2	2	2	1	1	2	0	2	2	0	0	0	0	1	0	0	0	2	1	2	0	0	0	0.8	2.4		
26-Dec-06	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	3	1	1	0	0	0	0	0.4	2.6		
27-Dec-06	0	0	0	0	0	1	2	1	2	3	2	2	3	3	3	3	4	2	3	2	3	3	3	2	2.0	4.1		
28-Dec-06	2	2	1	1	0	2	1	0	1	1	1	1	0	1	1	0	2	0	1	1	2	1	1	1	1.1	2.2		
29-Dec-06	0	0	0	0	0	2	3	0	3	2	2	1	1	4	2	4	5	4	5	10	1	1	1	0	2.1	10.5		
30-Dec-06	0	1	1	1	0	0	0	0	1	1	3	0	0	7	3	1	0	0	1	0	1	2	0	0	0.9	6.7		
31-Dec-06	1	0	1	2	0	1	2	1	1	3	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0.7	2.5		
Hourly Avg	2.1	2.2	2.0	2.2	1.3	1.6	2.1	1.6	2.1	2.2	2.6	2.7	2.1	1.9	1.9	2.2	2.6	2.4	2.5	2.7	2.6	1.9	2.0	1.5				
Hourly Max	9.2	7.9	9.9	13.0	7.6	7.9	17.4	8.7	10.9	9.5	13.4	10.5	6.7	7.8	7.7	6.9	8.6	10.7	9.2	10.8	11.6	10.9	8.9	5.2				

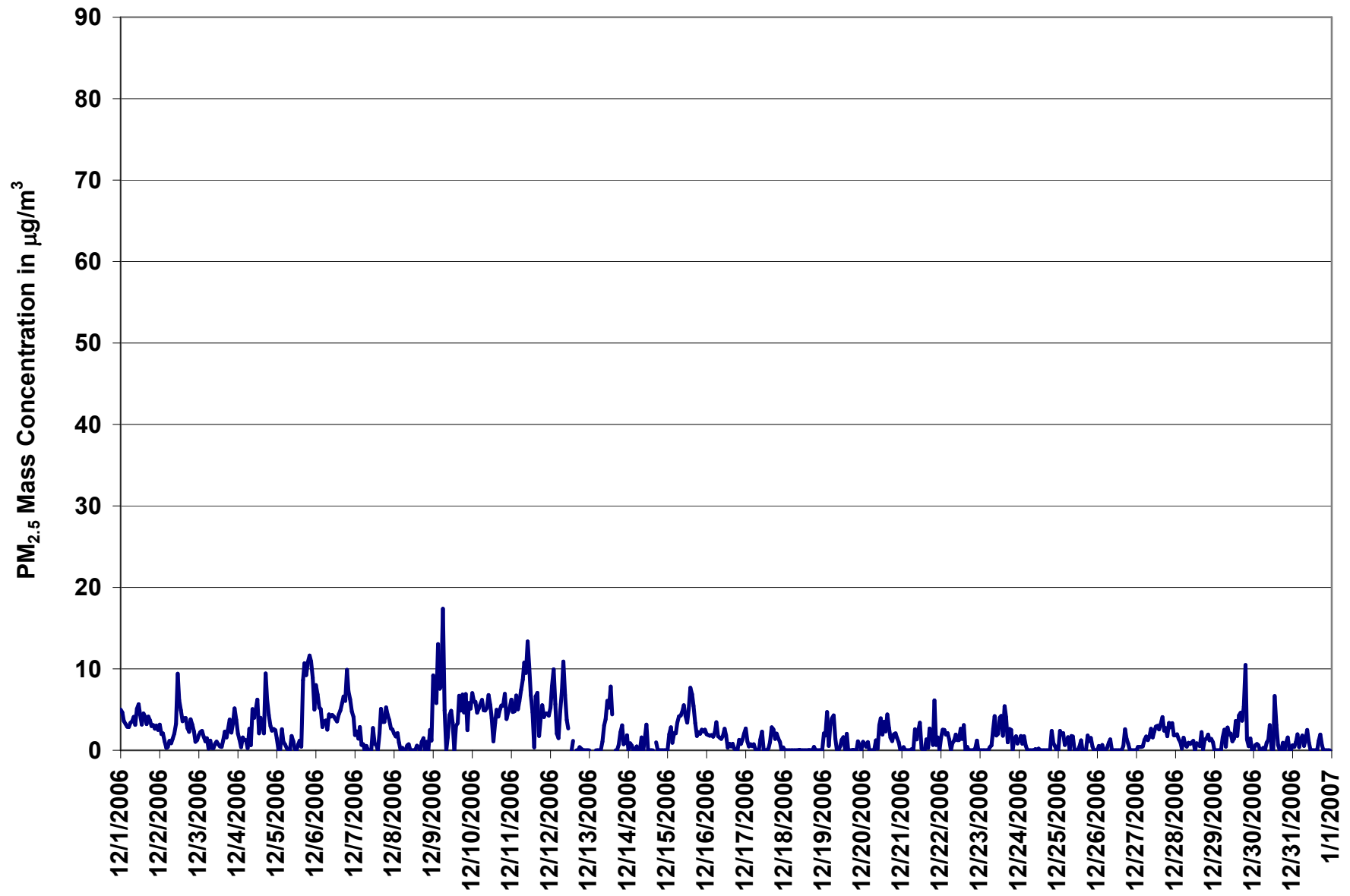


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

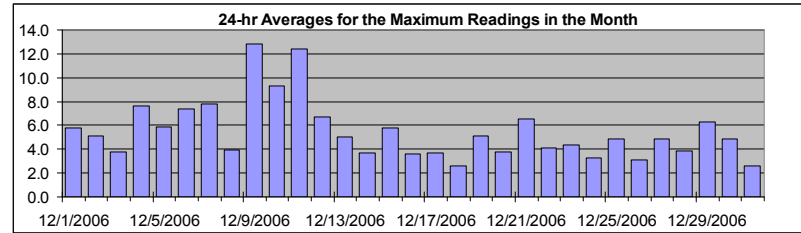
Particulate Matter (PM_{2.5})

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	46.2	µg/m ³	9-Dec	6:00 7:00
Maximum 24-hr Value:	12.9	µg/m ³	9-Dec	

AIC Time:	0 hrs	Operational Time:	738 hrs							
Calibration Time:	1 hrs	AMD Operational Uptime:	99.3%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	18.4	13.1	7.0	4.5	2.9	1.0	0.1	5.5	5 µg/m ³	5.1 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 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-Dec-06	7	7	5	4	5	4	6	5	6	5	8	9	8	5	7	7	5	7	7	5	5	5	5	5	5.8	8.7
2-Dec-06	6	3	4	2	3	2	3	2	3	3	6	13	10	7	6	6	6	6	5	6	8	5	3	4	5.1	13.5
3-Dec-06	3	3	4	4	3	3	1	3	2	3	3	4	4	2	2	4	5	3	4	6	5	7	8	7	3.8	8.3
4-Dec-06	4	5	5	5	7	7	11	7	7	10	8	9	9	9	9	9	4	21	11	6	5	5	7	6	7.7	21.5
5-Dec-06	5	1	2	4	3	2	2	1	1	3	3	1	1	2	3	4	11	12	12	15	16	16	11	10	5.9	16.3
6-Dec-06	11	9	8	7	5	6	5	6	6	5	6	6	6	5	5	7	7	9	9	13	12	8	7	8	7.4	12.9
7-Dec-06	5	5	7	5	6	9	5	6	5	6	8	11	6	7	8	11	12	10	9	12	10	9	8	7	7.8	12.0
8-Dec-06	6	6	8	5	1	3	3	4	5	6	1	4	3	4	5	6	2	3	4	1	3	2	6	4	4.0	8.1
9-Dec-06	16	14	8	23	18	13	46	12	9	11	12	12	8	1	9	11	17	9	10	9	12	9	12	9	12.9	46.2
10-Dec-06	12	9	11	9	11	8	9	9	8	7	11	10	10	5	9	12	6	7	8	8	9	9	8	15	9.3	15.3
11-Dec-06	14	10	13	13	14	13	12	15	15	20	19	19	10	15	12	12	13	7	7	9	8	10	11	7	12.4	20.4
12-Dec-06	13	14	14	13	4	3	8	10	14	10	6	14	D	3	5	D	1	1	3	2	2	3	3	3	6.7	14.2
13-Dec-06	0	D	1	D	2	2	1	3	4	5	7	9	13	14	12	C	0	2	3	5	7	5	4	7	5.1	14.1
14-Dec-06	6	5	2	3	2	3	1	4	3	7	18	16	1	1	2	0	D	4	1	2	0	3	0	1	3.7	17.6
15-Dec-06	4	5	5	4	4	6	6	7	7	7	8	8	5	7	10	8	7	5	4	4	4	5	4	4	5.8	10.1
16-Dec-06	4	4	4	4	4	4	6	4	3	3	6	7	3	2	2	2	3	2	1	2	3	3	4	5	3.6	6.8
17-Dec-06	5	4	3	5	3	3	5	3	5	5	4	1	2	1	4	4	6	4	4	4	3	4	3	2	3.7	6.1
18-Dec-06	2	2	0	1	0	1	2	2	1	4	1	4	4	5	5	6	1	3	6	3	3	2	2	3	2.6	6.3
19-Dec-06	6	6	8	10	12	12	12	4	4	2	4	5	4	4	8	2	1	2	5	1	3	2	2	4	5.1	12.4
20-Dec-06	4	2	2	3	1	1	0	2	3	3	6	6	4	7	5	10	6	6	5	3	4	4	3	1	3.8	10.2
21-Dec-06	3	6	4	3	0	5	5	3	5	7	9	9	5	2	15	6	4	15	7	9	19	4	3	6	6.5	18.9
22-Dec-06	11	8	5	4	4	4	2	4	3	6	4	4	7	4	7	5	5	2	1	0	1	3	2	1	4.1	11.3
23-Dec-06	0	0	2	1	1	1	3	5	7	8	6	5	7	7	4	9	8	4	5	5	4	4	5	5	4.4	9.5
24-Dec-06	4	4	3	4	4	3	2	2	2	2	5	3	3	3	2	3	0	9	4	0	7	5	4	0	3.3	9.4
25-Dec-06	3	10	11	6	5	6	6	3	5	6	4	2	4	11	6	3	4	3	4	4	4	3	3	2	4.9	10.9
26-Dec-06	4	3	3	4	3	3	4	5	4	2	3	1	2	1	1	0	5	4	3	3	2	3	4	4	3.1	5.1
27-Dec-06	5	3	3	3	4	4	4	4	5	5	4	5	4	4	5	5	6	5	6	7	7	7	7	3	4.9	7.5
28-Dec-06	4	5	4	4	5	5	3	3	5	5	3	4	1	3	2	3	6	4	3	3	5	4	4	4	3.9	5.7
29-Dec-06	2	1	2	2	4	5	6	4	9	8	5	3	8	7	7	8	11	9	9	23	6	4	5	3	6.3	23.4
30-Dec-06	1	2	2	2	3	4	4	1	3	9	13	5	5	14	6	7	4	6	6	3	5	7	2	2	4.8	14.3
31-Dec-06	3	1	3	4	3	4	4	3	4	6	4	2	1	0	1	2	5	5	3	2	1	1	1	1	2.6	5.9
Hourly Avg	5.6	5.4	5.0	5.4	4.6	4.8	6.1	4.6	5.2	6.1	6.6	6.9	5.3	5.3	5.9	5.9	5.7	6.1	5.5	5.6	5.9	5.1	4.9	4.6		
Hourly Max	16.3	14.2	13.6	22.7	17.7	13.1	46.2	14.8	15.1	20.4	18.8	18.9	13.3	15.1	15.4	12.4	17.1	21.5	12.4	23.4	18.9	15.8	12.2	15.3		

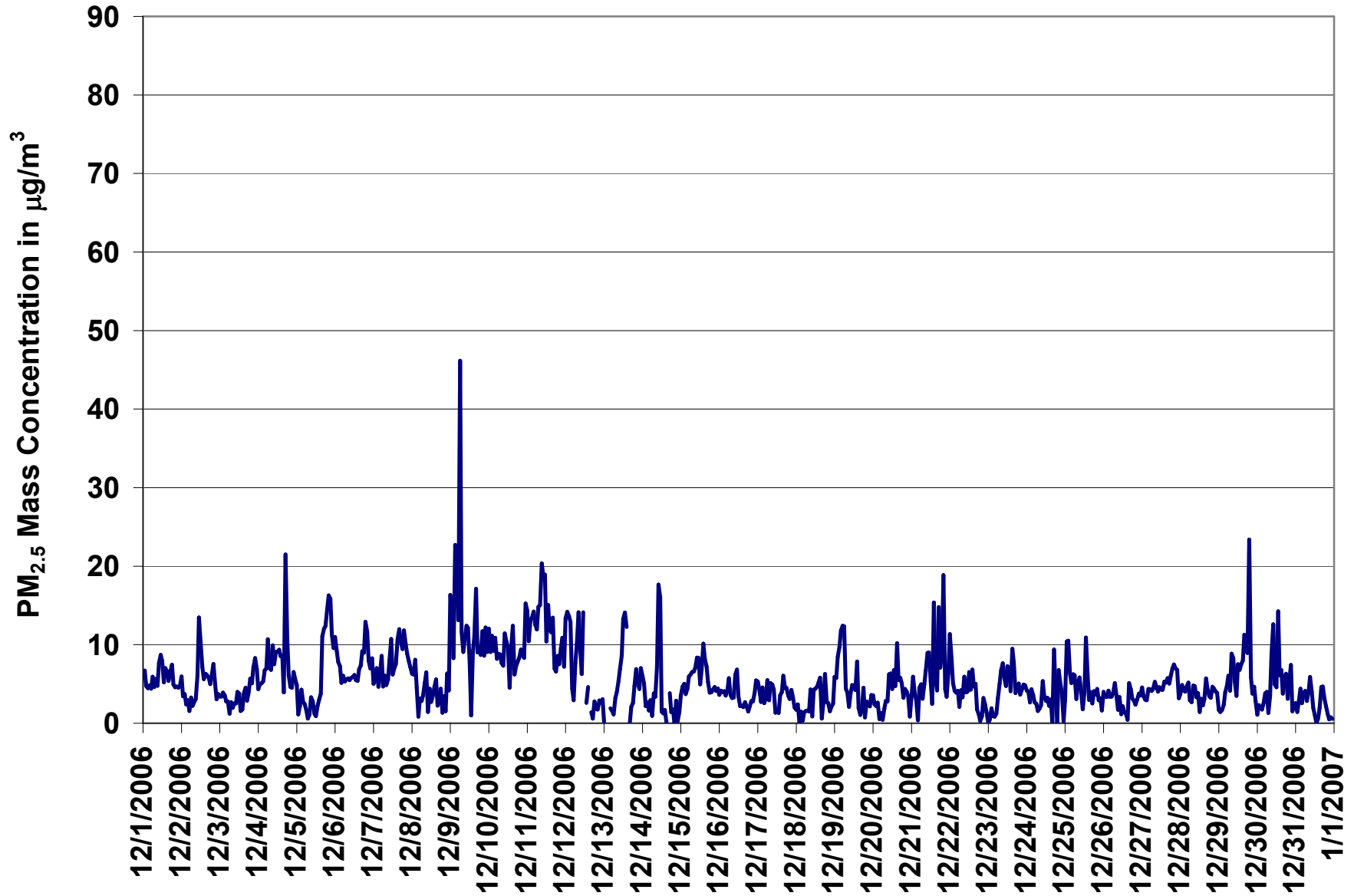
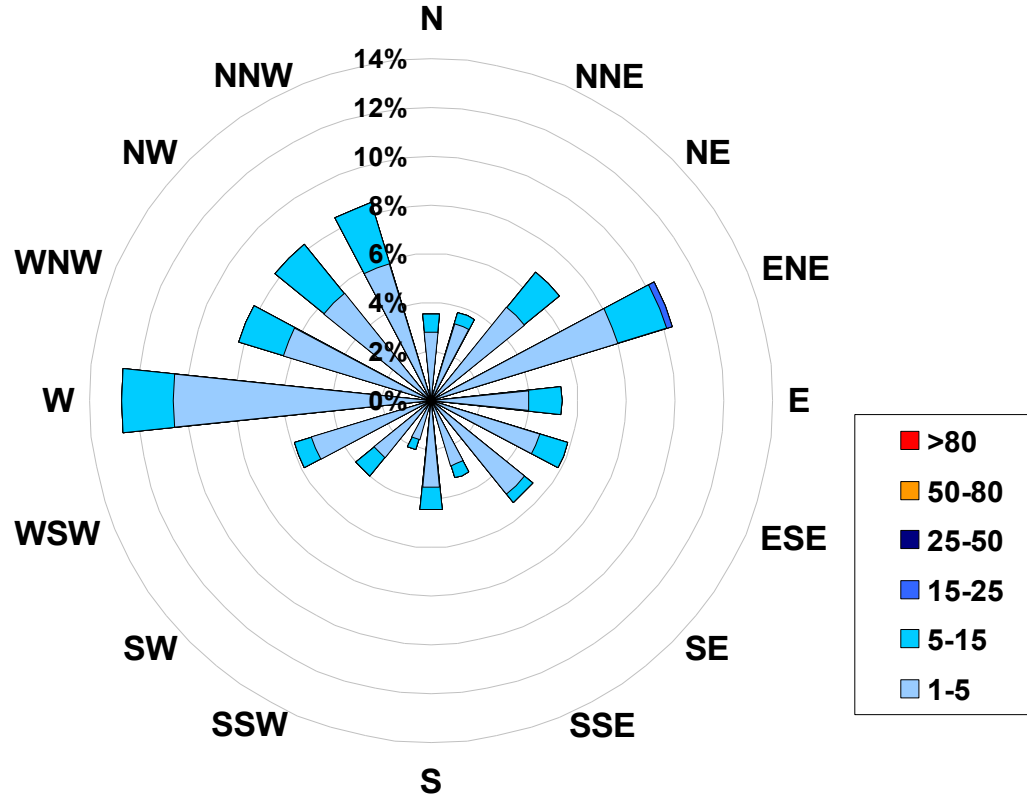


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for December 2006



Calms: 1%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	648
5	to	15	89
15	to	25	1
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			738

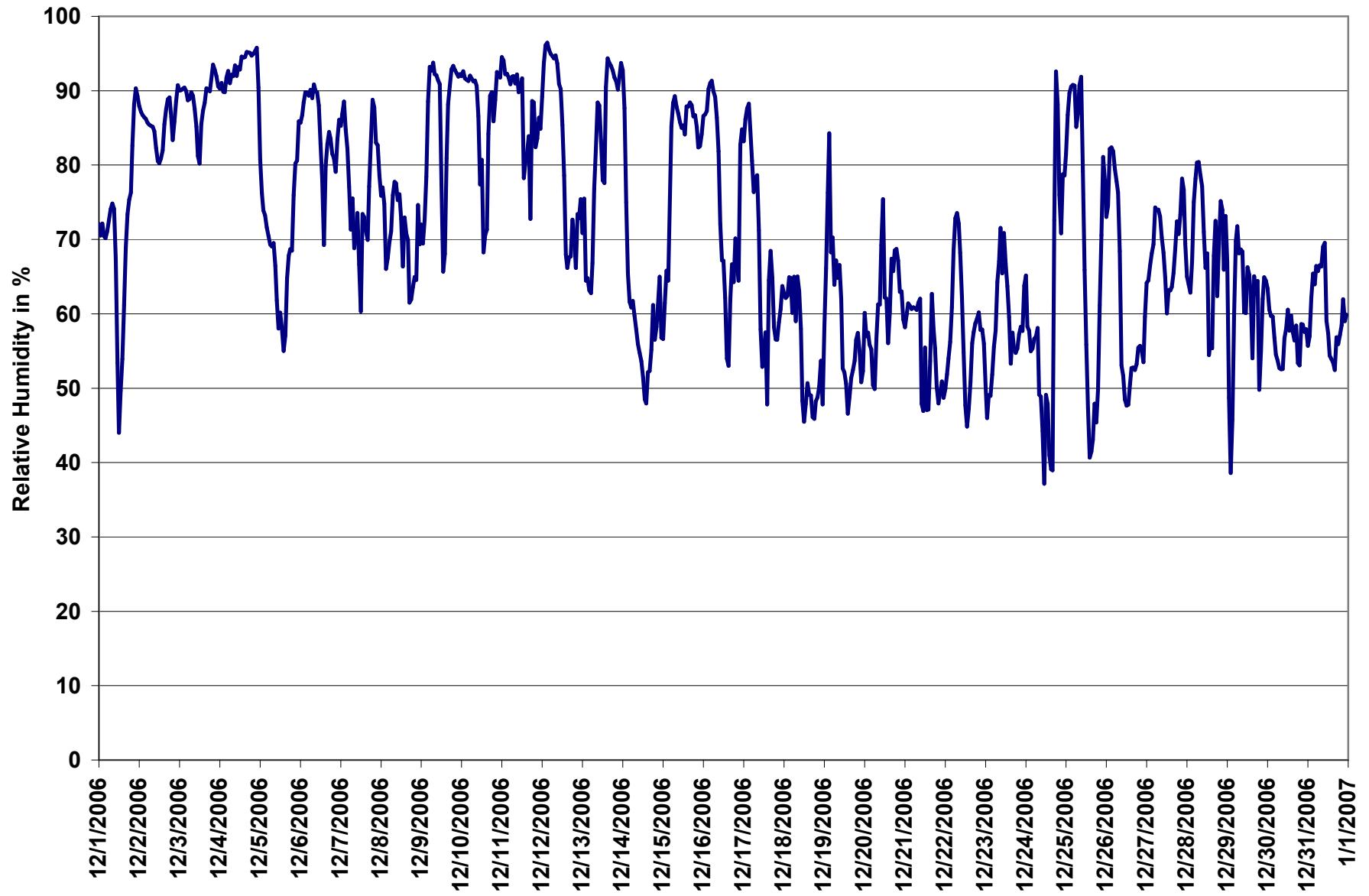


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

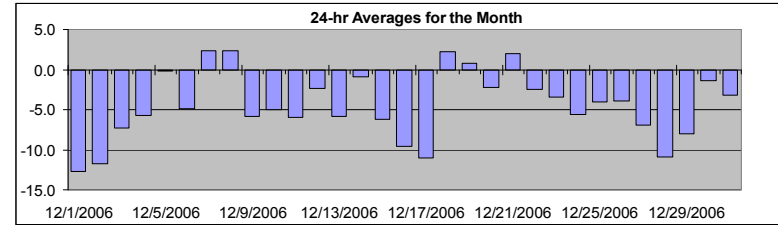
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	6.5 °C	18-Dec	17:00 18:00
Maximum 24-hr Value:	2.3 °C	7-Dec	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.3	3.2	-0.8	-4.2	-7.6	-13.4	-15.3	-4.4 °C	-4.2 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Dec-06	-14	-14	-14	-13	-13	-14	-14	-15	-15	-15	-14	-10	-8	-9	-10	-11	-12	-12	-12	-12	-13	-14	-14	-14	-14	-12.7	-7.9
2-Dec-06	-15	-14	-14	-14	-15	-16	-16	-16	-16	-15	-15	-15	-13	-13	-13	-13	-12	-10	-9	-5	-5	-3	-2	-4	-11.8	-2.1	
3-Dec-06	-5	-4	-5	-6	-7	-8	-8	-8	-8	-8	-8	-7	-7	-7	-7	-7	-7	-7	-7	-7	-8	-8	-9	-11	-7.3	-4.5	
4-Dec-06	-12	-10	-11	-12	-9	-8	-9	-8	-8	-6	-7	-5	-6	-3	-3	-3	-2	-3	-3	-3	-3	-2	0	0	-5.7	-0.3	
5-Dec-06	1	1	0	0	0	0	0	0	0	0	1	2	2	3	3	2	0	-1	-1	-1	-3	-5	-4	-5	-0.2	3.2	
6-Dec-06	-5	-5	-6	-6	-6	-6	-6	-6	-7	-7	-7	-6	-5	-5	-3	-5	-5	-4	-4	-4	-3	-3	-2	-1	-4.9	-1.2	
7-Dec-06	0	0	-1	2	3	3	4	3	5	4	3	3	5	3	3	4	4	2	1	-1	0	1	1	2	2.3	5.2	
8-Dec-06	2	2	2	4	5	4	3	1	1	2	3	3	4	5	4	4	3	3	2	1	1	0	-2	-1	2.3	4.9	
9-Dec-06	-2	-1	-2	-3	-9	-10	-8	-6	-8	-8	-9	-8	-1	0	-1	-4	-6	-7	-7	-8	-8	-7	-9	-9	-5.9	0.2	
10-Dec-06	-9	-8	-8	-8	-7	-6	-6	-5	-6	-6	-5	-3	-3	1	-2	-1	-3	-5	-4	-3	-4	-6	-5	-7	-5.0	0.7	
11-Dec-06	-8	-7	-9	-8	-9	-10	-8	-8	-10	-8	-10	-8	-6	-1	-4	-4	-4	0	-4	-5	-3	-3	-4	-3	-6.0	0.5	
12-Dec-06	-5	-4	-3	-3	-3	-4	-5	-5	-4	-1	0	0	1	2	3	1	-1	-2	-3	-3	-3	-5	-5	-5	-2.3	3.3	
13-Dec-06	-4	-6	-4	-4	-3	-3	-5	-6	-6	-7	-6	-5	-4	-4	-5	-6	-6	-7	-7	-9	-9	-11	-10	-6	-5.9	-3.1	
14-Dec-06	-6	-5	-2	-1	1	1	1	1	1	1	1	1	2	2	2	0	-1	-2	-4	-3	-4	-3	-4	-2	-0.9	2.1	
15-Dec-06	-2	-3	-3	-3	-3	-4	-5	-6	-7	-7	-7	-6	-6	-5	-6	-7	-7	-7	-8	-9	-9	-10	-10	-10	-6.2	-2.1	
16-Dec-06	-10	-10	-11	-12	-12	-12	-11	-12	-10	-9	-9	-7	-8	-7	-5	-5	-8	-9	-8	-10	-9	-9	-13	-14	-9.5	-4.9	
17-Dec-06	-13	-14	-15	-15	-15	-15	-15	-16	-17	-14	-11	-10	-10	-10	-7	-12	-13	-10	-8	-6	-6	-5	-4	-5	-11.1	-4.3	
18-Dec-06	-4	-3	-2	-2	-2	-1	-2	1	0	0	2	4	6	5	4	5	6	7	6	6	5	5	3	4	2.2	6.5	
19-Dec-06	3	4	3	2	2	0	0	-1	-1	-2	-1	1	1	2	3	3	2	1	1	0	-1	-1	-1	-1	0.8	3.7	
20-Dec-06	-4	-3	-3	-3	-3	-2	-2	-3	-4	-4	-6	-6	-2	-2	0	-1	-2	-1	-2	-2	-2	0	1	2	-2.3	1.9	
21-Dec-06	2	1	1	2	2	2	2	3	2	1	5	4	5	5	5	3	1	1	1	1	0	-1	-2	-1	2.0	5.4	
22-Dec-06	-1	-2	-2	-2	-2	-3	-3	-3	-4	-3	-3	-2	-1	0	-1	-1	-2	-2	-3	-4	-4	-4	-4	-4	-2.5	-0.1	
23-Dec-06	-3	-2	-3	-3	-4	-5	-5	-6	-6	-5	-4	-5	-4	-2	0	1	0	-1	-1	-2	-4	-5	-5	-7	-3.4	1.5	
24-Dec-06	-7	-6	-6	-6	-6	-7	-7	-8	-6	-7	-6	-4	-9	-8	-6	-5	-4	-5	-3	-3	-3	-3	-5	-5	-5.6	-2.6	
25-Dec-06	-7	-8	-9	-9	-9	-9	-7	-8	-7	-5	-3	-1	1	2	3	1	0	-2	-1	-1	-2	-3	-6	-6	-4.0	2.5	
26-Dec-06	-6	-5	-6	-5	-5	-6	-7	-6	-5	-3	-3	-2	-1	0	0	-2	-2	-3	-3	-4	-4	-4	-6	-6	-3.9	-0.1	
27-Dec-06	-7	-7	-8	-8	-9	-10	-10	-10	-10	-9	-8	-7	-5	-5	-4	-4	-4	-5	-5	-5	-6	-7	-7	-6	-7.0	-4.0	
28-Dec-06	-6	-7	-8	-10	-12	-12	-13	-13	-12	-13	-12	-11	-12	-8	-9	-9	-12	-12	-11	-12	-13	-13	-11	-12	-10.9	-6.1	
29-Dec-06	-11	-8	-7	-9	-12	-13	-13	-12	-13	-13	-11	-10	-11	-10	-8	-5	-8	-8	-8	-1	1	-1	0	0	-8.0	0.8	
30-Dec-06	-1	-2	-3	-4	-4	-4	-4	-2	-1	0	0	0	1	1	1	1	0	-1	-1	-1	-2	-2	-3	-4	-1.4	1.0	
31-Dec-06	-3	-4	-5	-6	-6	-7	-6	-6	-7	-6	-4	-3	-3	-3	-3	-3	-2	-1	0	1	1	0	1	2	-3.2	1.5	
Hourly Avg	-5.2	-5.0	-5.2	-5.4	-5.6	-5.9	-5.9	-6.0	-6.1	-5.5	-5.0	-4.0	-3.2	-2.3	-2.1	-2.6	-3.4	-3.6	-3.8	-3.7	-4.0	-4.3	-4.5	-4.6			
Hourly Max	3.1	3.7	3.2	4.4	4.7	3.9	4.2	3.3	4.9	4.4	4.8	4.4	5.9	5.5	4.9	5.4	6.2	6.5	6.3	5.6	5.0	4.6	2.8	4.0			

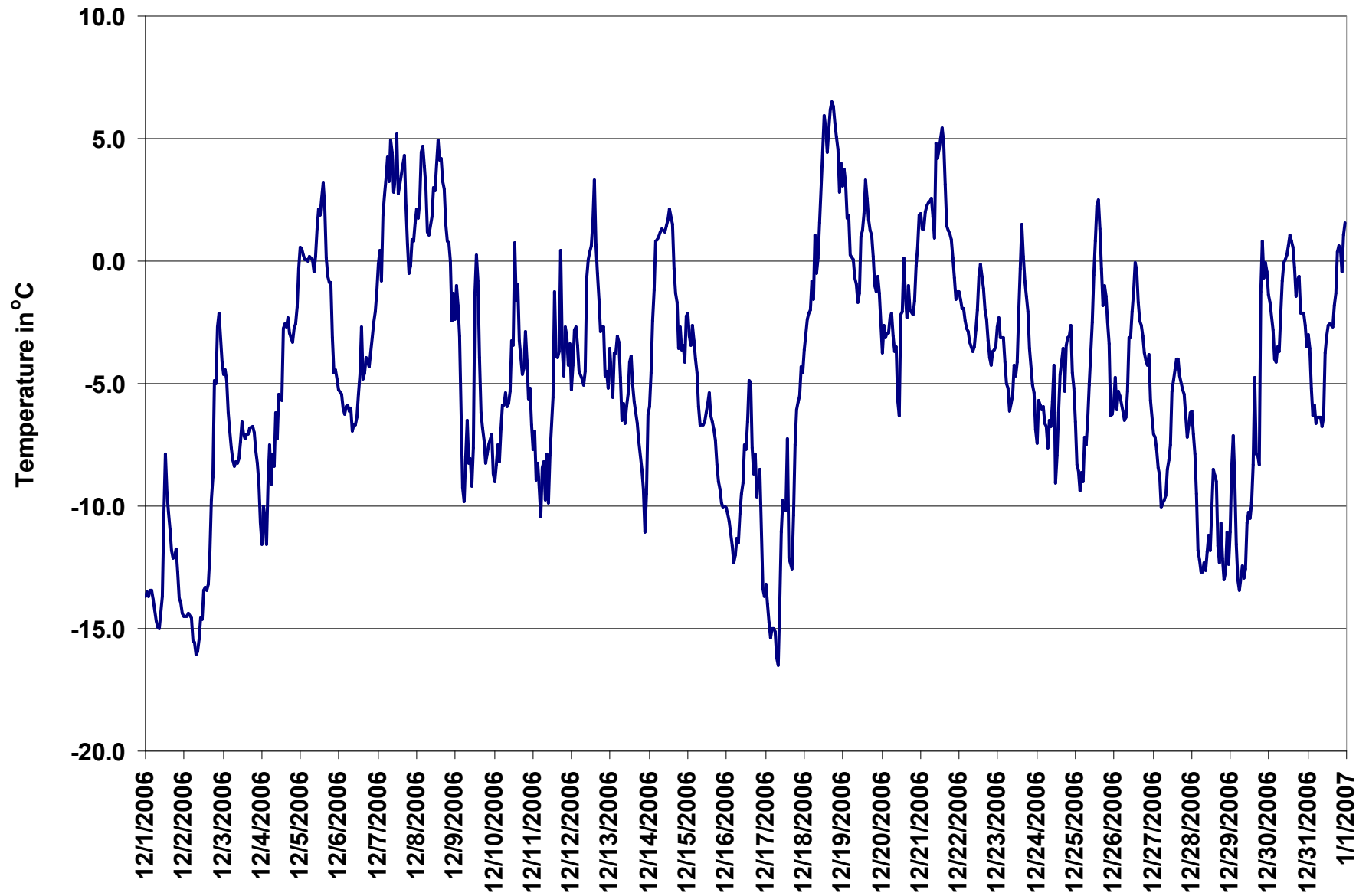


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

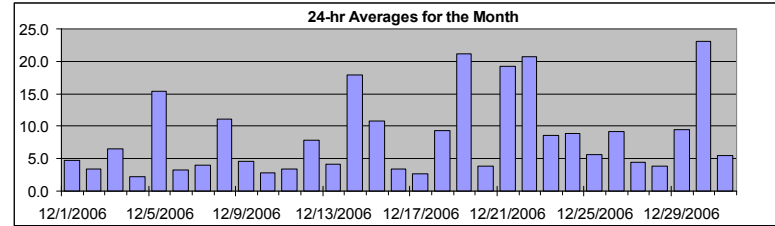
Wind Speed (WSs)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	46.2	km/hr	19-Dec	5:00 6:00
Maximum 24-hr Value:	23.1	km/hr	30-Dec	

Calm Time:	7 hrs	1% calms	Operational Time:	737 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	35.1	28.1	10.5	4.8	3.0	1.6	1.1	8.5 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	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-Dec-06	13	9	7	7	4	7	4	7	4	6	5	5	5	4	2	3	3	5	2	3	3	2	4	3	3	4.7	12.7
2-Dec-06	2	2	2	2	2	3	2	2	2	1	calm	1	2	3	3	4	4	2	2	5	7	7	7	12	3.4	12.1	
3-Dec-06	12	11	11	13	11	10	9	7	5	5	4	3	1	5	7	6	5	7	7	6	3	3	3	2	6.5	12.6	
4-Dec-06	3	2	2	2	1	2	2	1	2	1	2	2	2	1	calm	2	1	1	2	1	calm	calm	1	10	2.2	9.8	
5-Dec-06	14	17	18	20	21	22	22	20	18	23	25	23	21	24	23	18	7	5	5	6	3	5	4	4	15.4	25.0	
6-Dec-06	3	2	4	6	7	4	5	4	5	2	4	5	3	2	1	2	2	2	2	3	3	2	5	2	3.3	7.4	
7-Dec-06	3	2	4	3	4	5	7	3	6	5	4	4	3	4	6	4	6	5	4	2	4	3	3	4	4.0	7.4	
8-Dec-06	4	2	2	13	23	17	12	7	4	7	15	11	18	20	19	17	17	18	12	6	8	6	4	5	11.0	23.4	
9-Dec-06	3	4	6	7	6	7	3	3	2	5	6	5	4	5	4	4	4	6	4	4	5	5	5	3	4.5	6.9	
10-Dec-06	3	5	3	5	1	3	3	3	3	2	3	1	3	2	3	2	2	1	3	4	3	1	2	4	2.8	4.9	
11-Dec-06	5	2	4	2	2	2	1	1	3	2	1	3	2	4	4	3	6	6	4	4	5	6	2	4	3.3	6.4	
12-Dec-06	7	7	7	6	4	3	3	1	4	10	14	15	13	9	7	14	21	14	5	5	7	4	3	5	7.9	21.2	
13-Dec-06	5	5	7	8	8	9	5	4	8	6	4	4	2	1	1	2	3	3	2	2	3	3	2	4	4.1	8.7	
14-Dec-06	6	6	12	13	32	33	34	31	32	38	36	25	24	17	13	16	5	6	6	5	7	9	8	16	17.9	38.3	
15-Dec-06	19	20	21	22	15	10	11	10	9	9	10	6	5	6	11	10	11	10	8	6	7	8	7	9	10.9	22.0	
16-Dec-06	5	3	4	4	2	3	2	2	4	4	2	2	3	4	7	5	3	2	5	2	5	6	2	3	3.5	7.3	
17-Dec-06	3	3	2	2	3	2	3	3	3	3	3	3	3	2	2	2	3	3	1	3	3	2	3	3	2.7	3.5	
18-Dec-06	2	2	3	6	8	4	3	6	5	3	4	4	4	4	3	8	20	32	27	23	18	19	6	8	9.3	31.7	
19-Dec-06	22	28	24	29	38	46	32	31	29	22	21	27	28	23	23	19	17	13	12	6	8	5	2	3	21.2	46.2	
20-Dec-06	4	3	4	4	4	5	4	3	3	3	5	5	5	3	3	3	3	3	2	2	4	5	6	9	3.9	9.2	
21-Dec-06	12	10	9	12	10	12	10	7	10	6	4	12	17	22	38	33	27	25	29	33	32	30	26	34	19.2	38.3	
22-Dec-06	36	33	32	31	26	25	27	26	23	26	31	28	26	21	24	23	21	15	8	4	3	3	2	3	20.7	35.8	
23-Dec-06	5	4	4	3	1	1	4	5	6	4	2	2	calm	7	11	30	25	20	19	18	9	7	7	3	8.6	29.6	
24-Dec-06	3	11	9	9	12	5	4	3	3	2	5	2	2	5	7	11	16	16	17	21	18	11	10	10	8.9	21.1	
25-Dec-06	7	7	6	3	3	4	3	3	4	4	4	3	4	5	11	13	7	2	5	6	9	5	9	10	5.6	12.5	
26-Dec-06	7	4	2	3	8	11	5	5	6	10	11	14	13	15	17	14	11	11	11	8	8	9	7	9	9.1	17.4	
27-Dec-06	4	3	3	3	3	1	1	2	3	1	calm	1	5	11	12	11	8	4	5	6	4	3	2	5	4.4	11.6	
28-Dec-06	10	9	7	6	3	3	3	3	4	3	3	3	1	2	3	4	4	4	3	3	2	3	3	4	3.8	10.2	
29-Dec-06	3	3	3	3	4	4	7	7	6	8	8	6	6	8	4	4	10	9	4	21	21	19	30	29	9.4	30.1	
30-Dec-06	23	24	19	16	17	8	11	20	26	30	32	33	30	38	39	32	27	23	24	19	20	23	12	9	23.1	39.2	
31-Dec-06	8	6	5	3	3	3	4	2	4	5	5	2	3	3	3	calm	2	3	11	12	11	7	12	10	5.5	12.4	
1-hr Average	8.3	8.1	8.0	8.6	9.3	8.8	7.9	7.4	8.0	8.2	9.4	8.4	8.5	9.0	10.4	10.7	9.6	8.9	8.1	8.0	8.1	7.4	6.5	7.7			
Hourly Max	35.8	33.1	32.1	31.2	38.4	46.2	33.9	31.3	31.8	38.3	36.1	33.1	30.5	37.9	39.2	33.2	27.4	31.7	28.9	33.4	32.3	29.5	30.1	33.8			

PASZA – Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

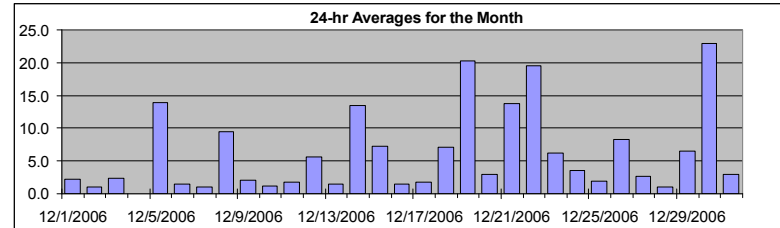
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	46.2	km/hr	19-Dec	5:00 6:00
Maximum 24-hr Value:	22.9	km/hr	30-Dec	



Calm Time:	37 hrs	5% calms	Operational Time:	707 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	35.6	28.4	10.6	4.3	2.4	1.2	0.9	19.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00 0:00		
1-Dec-06	13	9	7	7	3	7	4	6	5	5	5	3	2	2	3	5	2	3	3	3	2	3	3	3	3	2.3	12.7
2-Dec-06	2	2	2	2	2	3	2	1	1	1	calm	calm	calm	calm	2	4	4	2	1	4	7	7	6	12	1.0	12.1	
3-Dec-06	12	11	11	13	11	10	9	7	5	5	4	3	1	4	7	6	5	7	7	6	3	2	2	calm	2.4	12.5	
4-Dec-06	3	2	2	calm	calm	1	calm	1	1	calm	1	calm	2	1	calm	2	1	calm	2	calm	calm	calm	1	10	N	9.8	
5-Dec-06	14	17	18	20	21	22	22	20	18	23	25	23	21	24	23	18	7	5	5	6	2	4	4	4	13.9	25.0	
6-Dec-06	3	2	1	5	7	2	3	2	5	2	4	5	2	1	calm	calm	1	1	1	2	3	1	4	1	1.4	7.3	
7-Dec-06	2	2	3	3	4	4	5	calm	6	4	2	2	2	4	6	4	4	4	3	1	3	2	2	3	1.1	6.1	
8-Dec-06	4	2	1	12	23	17	11	6	2	6	15	11	18	20	19	17	17	17	10	4	7	5	3	5	9.4	23.3	
9-Dec-06	3	4	6	6	4	6	1	3	1	3	4	3	4	2	1	3	3	4	3	3	4	3	3	2	2.1	6.5	
10-Dec-06	1	3	1	3	1	1	2	2	1	1	1	calm	2	1	3	2	2	calm	3	4	3	calm	calm	2	1.1	3.9	
11-Dec-06	5	1	3	2	1	2	1	calm	3	calm	1	3	2	2	2	2	3	4	2	3	5	5	1	4	1.8	5.3	
12-Dec-06	5	6	6	6	3	3	2	calm	4	10	14	15	13	9	7	14	21	14	3	5	5	4	3	4	5.7	21.2	
13-Dec-06	5	4	5	8	7	6	4	3	7	6	4	3	1	1	1	1	2	2	1	2	2	3	2	2	1.5	7.7	
14-Dec-06	1	5	11	13	32	33	34	31	32	38	36	25	23	17	13	16	3	5	4	4	7	6	8	16	13.4	38.3	
15-Dec-06	19	20	21	22	15	10	11	10	9	9	10	6	5	6	11	10	11	10	8	6	7	8	7	9	7.3	21.9	
16-Dec-06	5	3	4	4	calm	3	2	1	4	4	1	2	3	4	7	5	1	1	5	2	5	6	calm	2	1.5	6.6	
17-Dec-06	3	3	2	2	2	2	3	3	3	3	3	3	3	2	2	2	1	3	calm	3	3	2	2	2	1.8	3.4	
18-Dec-06	2	2	2	5	8	3	2	6	4	2	3	2	2	2	2	8	20	32	27	23	18	19	6	8	7.1	31.7	
19-Dec-06	21	28	24	29	38	46	31	31	29	22	21	27	28	23	23	19	17	12	12	4	7	4	calm	3	20.2	46.2	
20-Dec-06	2	3	3	4	4	5	3	2	2	3	3	4	4	2	3	1	3	3	1	2	3	4	6	9	2.9	9.0	
21-Dec-06	12	10	9	12	10	12	10	7	9	4	2	12	17	22	38	33	27	25	29	33	32	29	26	34	13.7	38.2	
22-Dec-06	36	33	32	31	26	25	27	26	23	26	31	28	26	21	23	23	21	15	8	2	2	3	2	3	19.5	35.7	
23-Dec-06	5	3	4	1	1	calm	3	4	5	2	1	2	calm	7	10	29	25	20	19	18	9	6	7	3	6.2	29.5	
24-Dec-06	3	11	9	9	12	4	1	1	3	calm	5	2	2	3	6	11	16	15	17	21	18	11	9	10	3.5	21.1	
25-Dec-06	5	5	6	3	2	3	3	calm	4	4	3	2	1	4	11	12	7	1	4	5	8	5	8	10	1.9	12.5	
26-Dec-06	5	2	1	1	8	11	4	3	6	10	11	14	13	15	17	14	11	11	11	8	8	8	7	8	8.3	17.3	
27-Dec-06	2	2	2	2	2	1	1	2	3	calm	calm	1	5	11	12	11	8	4	4	5	2	2	calm	5	2.7	11.5	
28-Dec-06	10	9	7	5	3	2	3	2	4	2	2	3	2	1	2	3	3	1	3	3	2	2	3	1.1	10.1		
29-Dec-06	3	2	3	1	2	2	4	4	5	6	6	5	2	8	3	4	8	6	1	21	20	19	30	29	6.5	30.1	
30-Dec-06	23	24	19	16	17	7	10	20	26	30	32	33	30	38	39	32	27	22	24	18	20	23	12	9	22.9	39.1	
31-Dec-06	7	5	5	2	2	2	3	2	1	3	4	2	2	3	3	calm	1	1	11	11	10	7	12	10	2.9	12.1	
1-hr Vector	2.7	2.9	2.6	3.0	4.6	4.4	4.5	4.3	4.6	4.6	5.5	5.5	5.4	6.0	6.9	7.5	5.8	4.9	4.7	3.9	4.4	2.6	2.5	2.1			
Hourly Max	35.7	33.1	32.0	31.2	38.1	46.2	33.9	31.3	31.8	38.3	36.1	33.0	30.4	37.9	39.1	33.1	27.4	31.7	28.8	33.3	32.3	29.5	30.1	33.7			

PASZA - Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	353.0	331.9	268.6	217.0	105.9	41.0	10.0	266 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Dec-06	303	308	286	302	332	326	318	319	322	318	293	93	96	73	62	62	69	75	90	137	138	112	120	332	NNW		
2-Dec-06	99	106	115	148	136	158	179	139	133	84	93	189	291	239	209	170	111	140	33	343	5	347	2	29	55	NE	
3-Dec-06	23	14	354	336	336	326	307	314	359	16	31	47	172	144	144	130	135	141	135	131	143	302	332	151	13	NNE	
4-Dec-06	76	60	69	305	306	356	346	277	340	290	44	43	51	43	74	65	68	203	249	215	98	86	273	284	340	NNW	
5-Dec-06	284	280	281	278	279	278	278	279	278	279	276	279	278	274	281	281	305	321	335	334	216	97	110	108	281	W	
6-Dec-06	269	299	140	216	148	260	232	221	297	221	198	201	237	121	189	229	85	172	217	89	111	111	52	68	195	SSW	
7-Dec-06	87	110	120	95	72	243	258	219	268	313	50	72	149	130	95	133	150	260	269	35	81	121	96	112	128	SE	
8-Dec-06	190	176	185	254	261	266	256	236	247	253	245	257	266	258	261	261	266	275	278	351	317	349	25	28	265	W	
9-Dec-06	337	298	336	31	272	60	64	79	70	39	62	317	134	173	191	293	309	332	313	19	344	33	353	129	2	N	
10-Dec-06	282	37	52	330	64	6	42	52	41	79	197	174	69	35	163	129	141	152	107	86	277	59	322	321	45	NE	
11-Dec-06	64	131	48	70	261	68	80	52	70	338	64	45	56	57	73	58	40	46	267	239	312	294	48	52	38	NE	
12-Dec-06	305	9	335	339	11	44	274	184	262	316	294	291	307	314	285	260	261	262	263	245	270	71	112	85	292	WNW	
13-Dec-06	87	100	111	117	131	137	212	267	41	314	0	297	237	234	262	181	145	157	175	61	259	99	126	59	116	ESE	
14-Dec-06	281	250	277	254	264	262	263	260	261	265	264	265	270	267	256	252	181	240	76	61	67	76	84	101	262	W	
15-Dec-06	84	71	66	77	73	72	52	41	31	13	16	357	357	329	317	312	316	328	345	343	348	333	319	318	26	NNE	
16-Dec-06	321	357	25	53	309	69	64	288	302	304	155	93	71	71	293	267	282	289	264	252	301	289	164	127	316	NW	
17-Dec-06	85	75	117	99	102	157	204	165	124	177	204	95	104	145	144	191	178	68	167	235	228	94	99	126	139	SE	
18-Dec-06	110	105	169	191	204	200	74	227	108	139	120	141	88	285	89	216	241	242	239	237	248	233	223	249	227	SW	
19-Dec-06	248	261	272	266	267	267	269	263	262	258	260	266	268	271	279	282	280	282	269	222	215	182	121	82	265	W	
20-Dec-06	150	116	117	145	113	110	110	126	201	260	2	62	66	102	98	168	92	109	183	151	120	132	134	114	118	ESE	
21-Dec-06	128	134	143	138	128	136	132	150	279	106	166	245	251	263	257	248	240	250	255	262	260	259	257	255	242	WSW	
22-Dec-06	258	258	260	260	260	259	249	252	256	259	258	260	272	277	276	278	279	293	289	236	101	125	115	102	263	W	
23-Dec-06	82	119	119	88	175	219	318	39	330	5	29	66	7	305	290	281	288	286	285	290	301	272	244	220	291	WNW	
24-Dec-06	216	254	244	256	267	261	238	146	235	100	52	81	158	96	140	118	120	126	128	127	131	127	322	331	148	SSE	
25-Dec-06	11	343	343	51	60	116	92	213	82	86	137	97	99	231	261	259	248	20	265	237	226	212	232	238	249	WSW	
26-Dec-06	240	200	136	166	240	258	228	167	202	238	240	247	249	260	263	255	257	264	259	281	262	290	270	270	251	WSW	
27-Dec-06	354	231	57	104	112	107	72	64	56	65	76	105	317	329	330	333	329	331	26	348	233	72	318	287	343	NNW	
28-Dec-06	278	282	286	268	102	166	96	122	103	143	171	204	122	176	87	138	269	74	114	184	253	128	170	147	197	SSW	
29-Dec-06	114	128	234	118	203	286	301	328	300	56	285	321	310	325	29	314	330	353	333	274	271	260	257	254	283	WNW	
30-Dec-06	249	251	253	249	241	240	245	243	243	247	246	253	252	263	263	263	261	261	266	262	262	262	261	263	255	WSW	
31-Dec-06	267	265	215	174	88	108	140	219	223	139	94	90	61	95	142	197	217	334	260	257	253	219	245	263	233	SW	
Hourly Avg	273	273	277	260	257	262	262	257	271	273	265	268	268	272	268	263	264	271	263	263	261	255	263	263			

PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

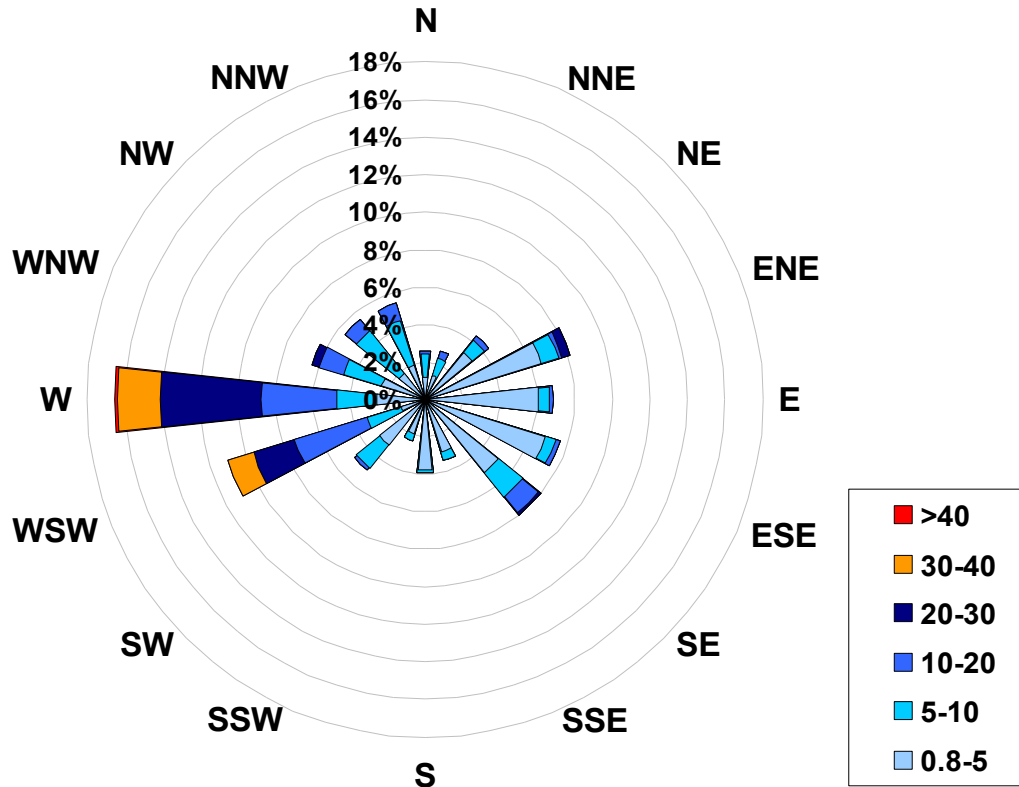
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	61.0	50.9	30.1	16.2	6.6	2.2	1.6

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

Day	Mountain Standard Time																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Dec-06	3	5	4	5	15	4	11	3	5	4	26	34	12	12	11	3	41	15	15	12	9	10	7	11	41.0
2-Dec-06	16	25	24	19	28	8	14	11	28	37	33	25	50	18	16	8	12	14	35	21	8	7	8	3	50.1
3-Dec-06	3	4	6	4	4	5	5	4	8	8	11	40	18	7	5	5	7	7	5	12	9	16	46	18	45.7
4-Dec-06	14	22	27	63	40	52	79	57	29	60	40	50	25	12	10	17	56	59	12	22	30	12	45	3	79.2
5-Dec-06	2	2	2	2	2	2	2	2	2	2	2	3	2	3	2	3	3	6	12	10	13	10	17	29	29.2
6-Dec-06	14	31	15	20	7	20	16	14	7	26	13	9	13	27	27	24	22	46	49	22	23	29	23	56	56.3
7-Dec-06	20	22	14	17	28	42	46	15	13	16	25	50	17	14	8	19	15	11	39	52	37	21	38	15	52.3
8-Dec-06	10	32	29	26	2	3	4	26	29	41	4	13	2	8	2	4	4	5	26	22	11	30	39	34	41.0
9-Dec-06	53	10	6	6	44	6	48	10	43	30	36	34	21	18	33	25	39	21	27	34	16	43	27	24	53.4
10-Dec-06	57	16	56	25	24	37	39	36	39	19	33	67	24	38	21	12	23	36	16	31	15	37	39	57	67.1
11-Dec-06	16	36	39	41	55	26	30	60	25	60	27	43	43	63	65	49	72	46	48	29	28	33	34	25	71.9
12-Dec-06	29	18	20	17	18	25	20	45	19	5	3	3	3	9	11	7	2	2	50	8	37	19	21	15	50.4
13-Dec-06	6	15	16	7	17	19	30	23	13	18	8	40	30	26	48	45	31	39	25	15	35	15	21	36	48.4
14-Dec-06	28	25	8	9	3	3	3	2	3	2	3	4	3	4	11	12	41	13	32	19	10	32	16	3	41.4
15-Dec-06	8	7	3	4	5	9	8	8	5	10	5	9	10	8	4	4	4	5	9	8	8	6	6	4	10.1
16-Dec-06	8	12	7	8	33	7	8	26	5	10	21	20	5	8	36	11	42	42	7	12	13	7	38	18	41.7
17-Dec-06	8	16	13	15	14	21	26	20	12	16	13	30	18	17	41	27	54	23	57	16	22	51	44	14	57.1
18-Dec-06	18	12	39	23	4	25	39	27	17	35	9	20	22	41	51	7	2	2	3	4	4	3	12	11	50.9
19-Dec-06	22	2	3	7	4	3	3	2	3	2	1	3	4	5	3	3	2	3	4	27	43	16	45	52	51.9
20-Dec-06	24	12	12	10	13	12	15	17	36	23	42	9	21	47	39	38	23	36	43	28	32	28	9	7	47.0
21-Dec-06	4	5	9	4	12	5	5	18	12	25	25	9	4	4	3	3	2	4	5	4	2	2	1	8	25.2
22-Dec-06	2	2	2	2	2	2	2	2	2	2	1	2	3	3	4	4	6	4	20	28	26	17	16	11	28.3
23-Dec-06	11	42	29	57	38	64	54	35	21	32	44	18	52	10	12	19	2	15	19	4	8	19	5	42	63.8
24-Dec-06	46	6	5	7	6	39	42	36	13	45	12	47	20	54	19	9	3	10	5	2	7	6	30	5	53.7
25-Dec-06	34	23	36	28	49	19	16	46	41	19	17	46	32	37	12	4	7	47	52	11	5	4	5	3	51.8
26-Dec-06	28	43	50	30	23	12	62	33	36	7	5	23	11	23	11	31	26	16	12	20	14	8	20	31	61.5
27-Dec-06	39	47	41	47	18	30	20	21	29	36	49	19	37	8	3	10	3	12	13	13	55	16	21	10	55.3
28-Dec-06	4	4	5	48	15	15	15	11	15	32	20	17	20	33	39	20	17	27	16	23	33	21	33	24	47.7
29-Dec-06	34	53	41	38	23	56	51	31	50	28	28	11	29	20	25	57	26	36	47	34	3	4	23	26	57.4
30-Dec-06	3	2	2	2	3	15	38	2	2	9	13	22	3	2	2	3	3	3	3	13	8	3	19	13	38.1
31-Dec-06	29	10	9	32	26	32	17	51	35	31	16	20	55	26	35	28	43	37	5	7	8	5	4	5	54.8
Hourly Max	57	53	56	63	55	64	79	60	50	60	49	67	55	63	65	57	72	59	57	52	55	51	46	57	

1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for December 2006



Calms: 1%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	384
5	to	10	156
10	to	20	104
20	to	30	64
30	to	40	28
	>	40	1
Total Non-Zero Values			737

PASZA – Portable - Falher Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary

Sulphur Dioxide (SO₂)

Station: Portable-Falher
 Station Owner: PASZA

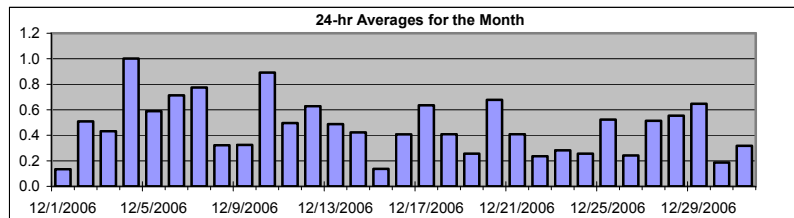
HOURLY AVERAGE TABLE

Monitoring Dates: December 1, 2006 to January 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:	3.6 ppb 4-Dec 19:00 20:00
Maximum 24-hr Average:	1.0 ppb 4-Dec



AIC Time:	33 hrs	Operational Time:	705 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	1.6	1.1	0.6
	0.4	0.2	0.1
	0.1	0.0	0.0
Average	0.5 ppb		
Median	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-Dec-06	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
2-Dec-06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	0.5	1.1	
3-Dec-06	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	A	0	0	0.4	1.0	
4-Dec-06	1	1	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	4	3	3	2	2	1.0	3.6	
5-Dec-06	2	1	1	A	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0.6	1.5	
6-Dec-06	0	0	A	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.7	1.4	
7-Dec-06	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1	0.8	1.3	
8-Dec-06	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
9-Dec-06	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0.3	0.8	
10-Dec-06	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	1	1	A	0	0	0.9	1.5	
11-Dec-06	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	A	0	0	0	0.5	1.7	
12-Dec-06	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	A	0	0	0	0.6	1.4	
13-Dec-06	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	1	1	1	1	1	0.5	1.2	
14-Dec-06	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	1.0	
15-Dec-06	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	0.4	
16-Dec-06	0	0	0	0	1	0	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0.4	1.2	
17-Dec-06	1	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	0	1	1	1	1	1	1	1	0.6	1.0	
18-Dec-06	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0.4	0.9	
19-Dec-06	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	
20-Dec-06	0	0	0	1	0	0	1	1	1	1	1	A	1	1	0	1	1	1	1	1	1	0	0	0	0.7	1.2	
21-Dec-06	1	1	0	0	0	0	0	1	2	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.7	
22-Dec-06	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0.2	0.6	
23-Dec-06	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
24-Dec-06	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.3	1.1	
25-Dec-06	1	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.4	
26-Dec-06	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
27-Dec-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.5	1.0	
28-Dec-06	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.6	1.0	
29-Dec-06	1	1	A	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0.6	1.1	
30-Dec-06	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	0.5	
31-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0.3	0.5	
Hourly Avg	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5		
Hourly Max	1.5	1.2	1.3	1.4	1.1	0.9	1.0	1.2	1.6	1.7	1.4	1.7	1.4	1.3	1.3	0.9	1.1	1.2	1.1	3.6	3.2	2.8	2.4	2.0			

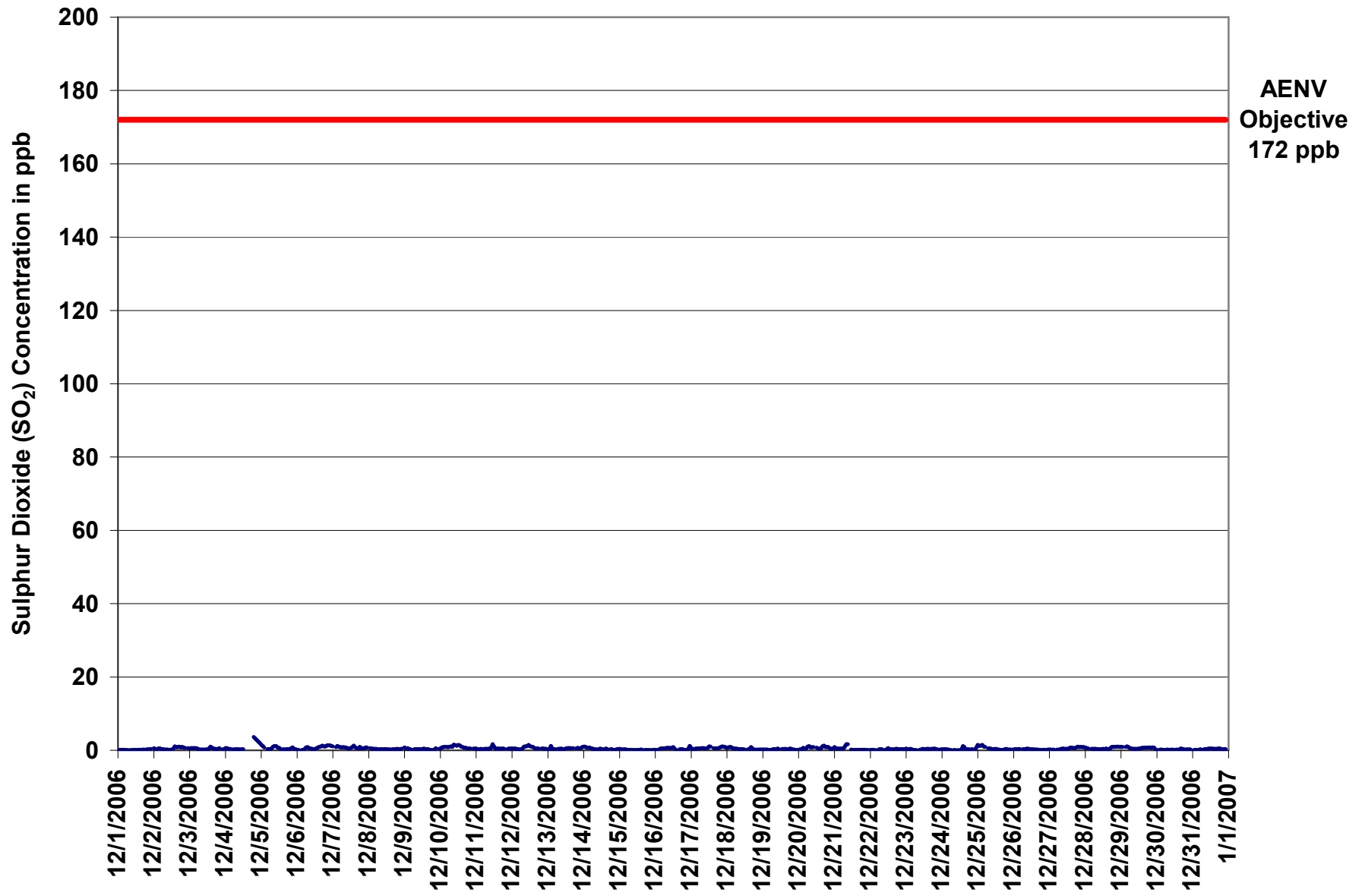


Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

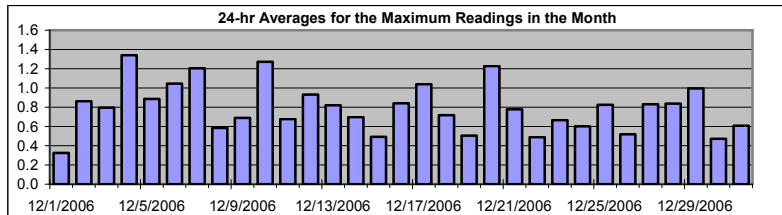
Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	4.1	ppb	4-Dec	19:00 20:00
Maximum 24-hr Value:	1.3	ppb	4-Dec	

A/C Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.5	1.0	0.7	0.5	0.3	0.2	0.8 ppb	0.7 ppb



Status Flag Characters

C	Calibration	A	A/C - 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-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	0.3	0.7
2-Dec-06	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.2
3-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	0.8	1.8
4-Dec-06	1	1	1	1	1	0	1	1	0	0	1	0	1	C	C	C	C	C	C	4	4	3	3	2	1.3	4.1
5-Dec-06	2	2	1	A	1	1	1	1	1	2	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0.9	2.0
6-Dec-06	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.0	1.9
7-Dec-06	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.2	2.4
8-Dec-06	A	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	A	0.6	0.9
9-Dec-06	1	1	1	1	0	0	0	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	A	1	0.7	1.4
10-Dec-06	1	1	1	1	1	1	1	1	1	2	1	2	2	2	1	1	1	1	1	1	1	A	1	1	1.3	2.1
11-Dec-06	1	0	0	0	0	0	0	0	0	1	1	3	2	1	0	0	0	0	0	0	A	0	0	0	0.7	2.5
12-Dec-06	0	0	1	1	1	0	0	1	1	1	2	2	2	1	1	1	1	1	1	A	1	1	1	1	0.9	2.0
13-Dec-06	1	1	2	1	0	1	0	1	0	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	2.0
14-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.5
15-Dec-06	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	1	1	0.5	0.5
16-Dec-06	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	2	0.8	2.2
17-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1.0	1.5
18-Dec-06	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0.7	1.4
19-Dec-06	0	0	0	0	0	0	0	0	0	0	1	0	A	1	0	0	0	0	1	1	0	0	0	0	0.5	0.9
20-Dec-06	0	1	1	1	1	1	2	3	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.9
21-Dec-06	1	1	0	1	1	0	1	2	2	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0.8	2.0
22-Dec-06	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0.5	0.9
23-Dec-06	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0.7	2.5
24-Dec-06	0	0	1	0	0	0	0	A	0	0	0	0	0	0	3	2	0	1	0	0	1	0	1	1	0.6	3.3
25-Dec-06	2	1	2	2	1	1	A	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.8	2.4
26-Dec-06	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.5
27-Dec-06	1	1	1	1	A	1	1	1	1	1	0	1	0	0	1	1	0	1	1	1	1	1	1	1	0.8	1.5
28-Dec-06	1	1	1	A	1	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0.8	1.4
29-Dec-06	1	1	A	1	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.0	1.9
30-Dec-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5
31-Dec-06	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	0	0	A	0.6	0.9
Hourly Avg	0.9	0.7	0.8	0.8	0.7	0.6	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.9		
Hourly Max	2.5	1.6	2.0	2.4	1.9	1.4	2.4	2.9	2.4	2.1	1.5	2.5	2.0	2.0	3.3	1.8	1.4	1.4	2.4	4.1	3.7	3.3	2.9	2.4		

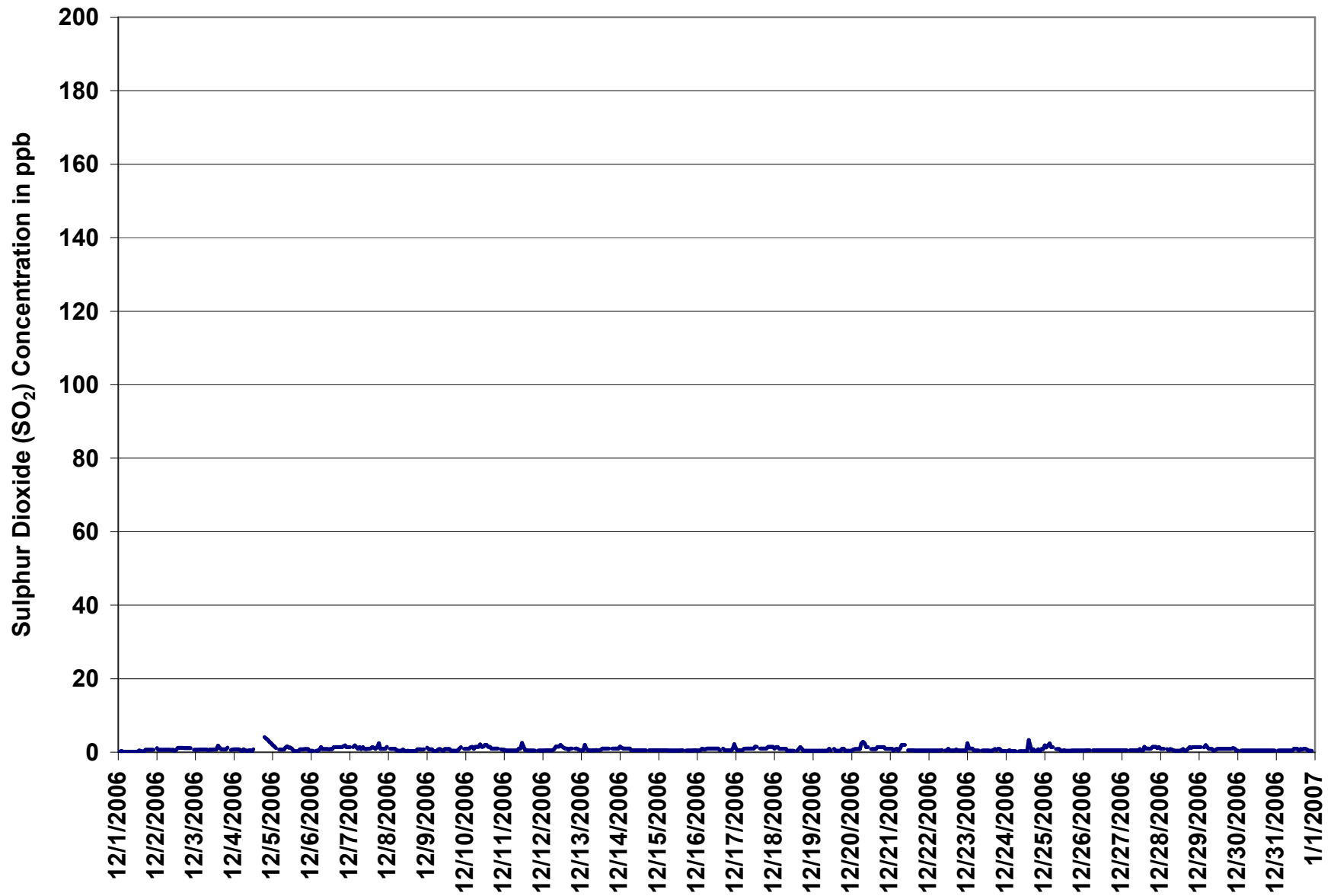
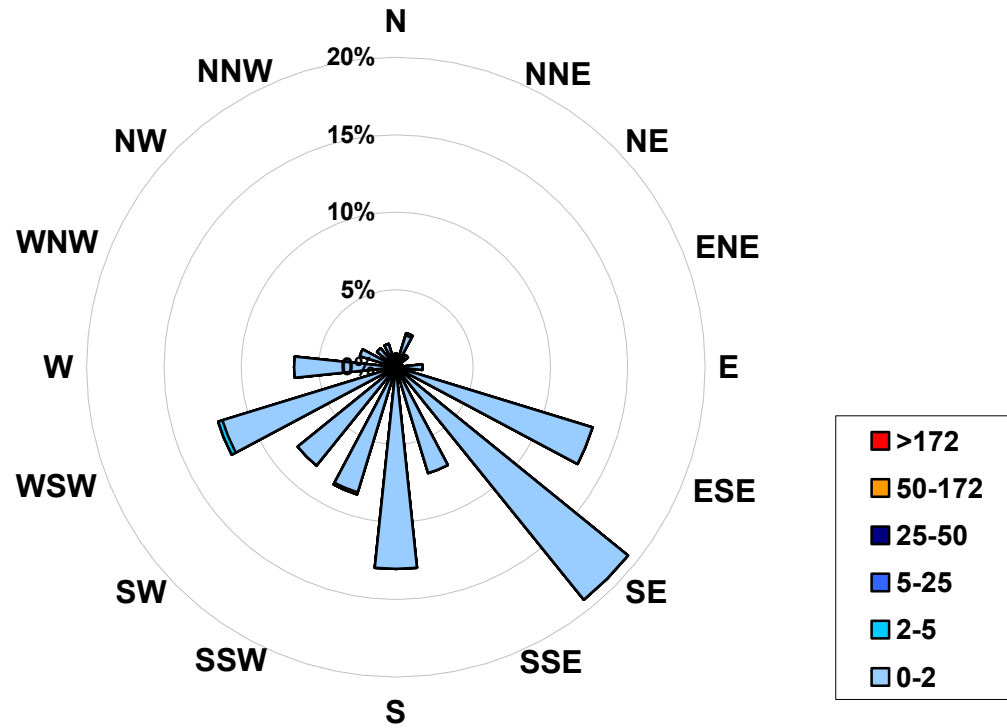


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Falher Site for December 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	701
2	to	5	4
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			705

PASZA - Portable-Falher - Ozone Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

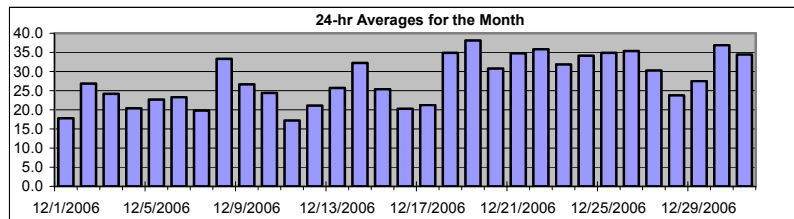
Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 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:	40.3 ppb	19-Dec	6:00 7:00	
Maximum 24-hr Average:	38.1 ppb	19-Dec		



AIC Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.3	37.7	34.3	28.7	22.9	14.7	7.5	28.0 ppb	28.7 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	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-Dec-06	A		34	34	34	34	33	28	8	9	9	13	15	20	19	17	15	11	3	2	7	13	14	19	A		17.8	34.1
2-Dec-06	24	23	24	26	31	31	31	30	29	30	30	31	31	29	27	25	24	24	24	23	21	A	A	24	A		26.9	30.8
3-Dec-06	24	23	22	22	23	23	24	23	22	20	17	16	14	17	28	28	28	28	29	31	32	A	30	32		24.2	31.7	
4-Dec-06	30	28	26	24	21	22	20	21	19	16	11	17	23	C	C	C	C	C	C	17	19	18	18	16		20.4	30.3	
5-Dec-06	12	17	17	A	12	11	8	19	21	20	21	24	27	28	28	26	25	29	31	31	30	28	28	27		22.7	31.3	
6-Dec-06	25	23	A	22	24	25	24	24	25	25	26	26	26	26	25	24	23	22	23	23	21	19	18	17		23.3	26.1	
7-Dec-06	17	A	14	15	16	17	18	18	19	21	23	26	26	27	25	23	20	19	19	19	20	18	19	18		19.8	26.7	
8-Dec-06	A	22	27	30	32	34	37	36	36	35	35	35	35	35	34	33	32	32	35	35	35	34	34	A		33.3	36.6	
9-Dec-06	33	33	33	29	24	23	23	22	19	18	20	17	22	26	25	26	25	29	32	34	34	A	A	32		26.7	34.0	
10-Dec-06	32	31	29	29	28	28	28	26	25	23	23	24	22	22	24	22	21	21	23	22	21	A	19	19		24.4	32.1	
11-Dec-06	15	17	17	18	17	16	16	16	15	16	18	21	23	21	17	13	17	15	19	18	A	19	17	14		17.2	23.4	
12-Dec-06	13	13	11	11	8	8	7	7	7	9	15	25	28	32	34	34	33	34	32	A	28	29	31	33		21.1	34.2	
13-Dec-06	34	28	26	23	21	26	28	30	30	30	31	31	32	31	29	24	21	18	A	11	23	20	20	26		25.7	33.8	
14-Dec-06	25	23	24	24	26	27	32	36	37	37	37	37	38	38	37	37	38	A	35	36	28	27	29	32		32.2	38.0	
15-Dec-06	33	33	24	19	20	21	22	24	26	27	28	27	26	25	26	27	A	27	27	27	25	24	23	24		25.4	33.3	
16-Dec-06	24	22	23	24	26	26	26	26	25	25	25	24	24	23	22	A	16	16	11	2	5	13	17	20		20.3	26.3	
17-Dec-06	20	18	19	20	21	22	20	20	15	18	20	23	27	26	A	23	20	20	21	21	24	24	23	24		21.3	26.8	
18-Dec-06	26	27	28	29	35	34	32	34	35	35	37	37	37	A	37	36	35	37	38	38	38	39	39	39		34.9	39.2	
19-Dec-06	39	40	40	40	39	39	40	39	39	39	39	39	A	38	38	37	37	37	37	37	36	37	36	35		38.1	40.3	
20-Dec-06	33	31	33	34	33	31	29	29	29	30	31	A	33	34	33	32	31	30	29	28	29	29	28	28		30.8	33.9	
21-Dec-06	27	29	27	29	29	30	32	33	33	32	A	39	38	40	40	40	39	38	38	37	37	38	37	37		34.8	39.8	
22-Dec-06	38	38	38	38	37	37	37	37	36	A	36	36	37	37	36	37	34	34	33	34	35	34	34	33		35.8	37.7	
23-Dec-06	30	31	32	33	33	32	32	A	30	28	30	31	30	30	30	27	33	34	33	34	36	36	36	36		31.8	36.1	
24-Dec-06	34	33	33	31	34	32	33	A	35	32	34	35	36	34	32	33	33	34	36	36	37	37	37	36		34.1	37.3	
25-Dec-06	34	34	35	34	33	32	A	31	32	33	34	35	34	35	36	37	37	37	37	37	36	36	37	36		34.9	37.5	
26-Dec-06	36	35	35	36	36	A	36	35	33	35	36	37	36	36	36	37	37	34	35	35	34	33	35	35		35.4	36.9	
27-Dec-06	31	31	33	34	A	32	33	32	32	31	30	30	30	28	30	31	30	30	28	28	29	28	28	27		30.3	34.4	
28-Dec-06	23	23	26	A	26	25	23	22	21	18	19	25	26	27	27	26	26	24	24	22	22	24	24	25		23.8	27.3	
29-Dec-06	27	27	A	27	27	28	29	29	28	27	27	28	28	28	27	27	26	26	25	24	23	24	31	39		27.5	38.7	
30-Dec-06	39	A	37	37	37	37	37	37	37	37	38	38	38	38	38	37	37	36	36	36	37	35	34	36		36.9	38.9	
31-Dec-06	A	35	35	35	34	34	35	34	35	34	33	34	34	35	34	34	33	33	33	35	36	36	36	A		34.5	36.4	
Hourly Avg	27.8	27.7	27.8	27.8	27.2	27.2	27.3	27.0	26.8	26.3	27.1	28.7	29.4	29.8	30.2	29.5	28.2	27.5	28.5	27.3	28.1	27.8	28.3	28.6				
Hourly Max	39.3	39.7	40.0	39.6	38.8	38.6	40.3	38.9	39.1	39.1	38.9	39.2	38.3	39.8	39.7	39.8	38.9	38.0	37.8	38.2	38.1	39.0	39.2	39.0				

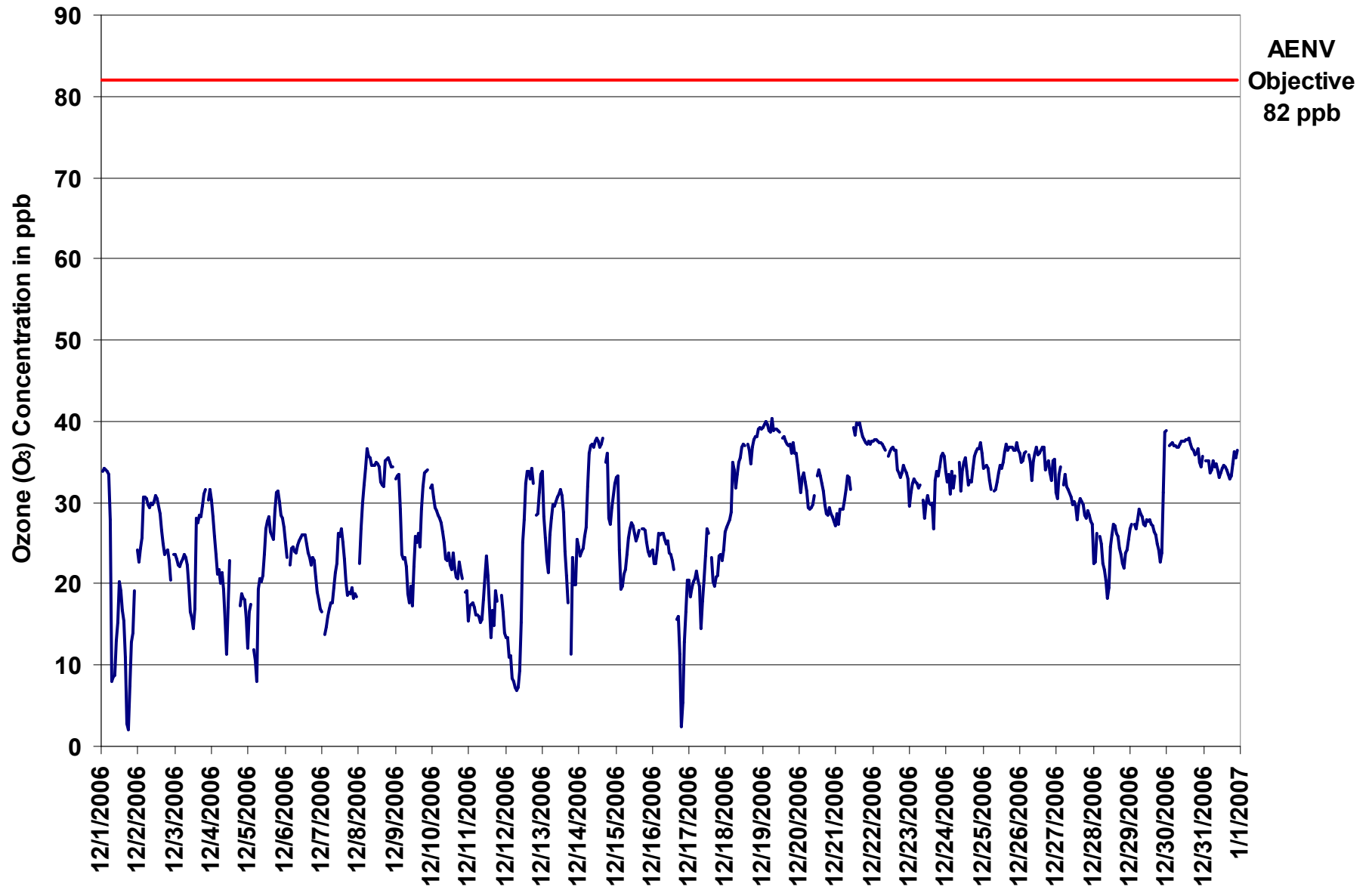


Figure 48. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

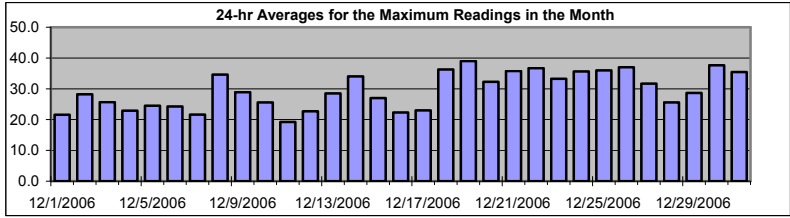
Ozone (O₃)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	41.4	ppb	19-Dec	6:00 7:00
Maximum 24-hr Value:	39.0	ppb	19-Dec	

A/C Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.3	38.4	35.6	30.6	24.5	17.2	9.9	29.6 ppb	30.6 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	24-hour Average	Daily Maximum
1-Dec-06	A	34	35	35	35	35	34	17	17	13	16	18	22	21	19	19	17	10	5	14	20	18	25	A	21.6	34.8	
2-Dec-06	29	24	26	30	31	31	32	31	30	31	31	31	32	32	30	28	26	25	25	25	24	23	A	24	28.2	31.8	
3-Dec-06	24	24	23	23	23	24	24	24	23	22	20	17	16	20	31	30	30	29	31	32	35	A	31	32	25.7	34.8	
4-Dec-06	32	29	28	25	23	23	22	27	23	20	13	20	26	C	C	C	C	C	C	18	22	23	19	17	22.9	32.3	
5-Dec-06	14	19	19	A	14	12	14	22	22	21	23	25	29	28	29	28	28	32	33	32	31	30	30	29	24.5	32.5	
6-Dec-06	26	25	A	24	26	25	25	25	25	26	26	27	27	27	26	25	25	23	24	24	22	20	19	18	24.3	26.7	
7-Dec-06	17	A	15	17	17	19	20	19	21	23	27	27	28	28	26	25	21	22	22	20	20	20	21	21	21.6	28.2	
8-Dec-06	A	25	29	32	34	36	37	37	37	36	36	36	36	36	36	34	34	34	36	36	36	35	35	A	34.6	37.2	
9-Dec-06	34	35	35	33	27	25	25	25	21	21	21	22	24	28	27	29	29	31	34	34	34	35	A	33	28.9	35.4	
10-Dec-06	33	32	30	30	29	29	29	28	26	24	24	25	23	25	25	24	23	22	23	23	22	A	20	20	25.6	33.4	
11-Dec-06	19	18	18	18	18	17	17	17	17	17	20	24	27	22	21	18	19	20	21	21	A	19	19	16	19.2	26.6	
12-Dec-06	14	14	14	13	10	9	8	8	9	11	20	26	31	34	34	34	34	36	35	A	30	31	33	35	22.7	35.8	
13-Dec-06	35	33	27	25	29	29	29	31	32	32	32	32	32	32	31	28	24	22	A	22	26	22	25	27	28.5	34.5	
14-Dec-06	26	24	25	26	27	31	34	37	38	38	38	38	38	39	38	38	39	A	37	37	36	32	31	34	34.0	38.7	
15-Dec-06	34	35	33	21	21	22	23	25	26	28	28	28	27	26	27	27	A	32	28	27	26	24	26	25	27.0	34.8	
16-Dec-06	28	23	23	26	27	27	27	27	26	26	26	26	26	26	25	24	A	19	17	18	6	10	15	18	22.3	28.2	
17-Dec-06	22	20	21	22	23	23	21	21	20	20	22	26	28	27	A	25	23	22	22	23	25	24	24	27	23.0	27.7	
18-Dec-06	27	28	28	31	38	39	33	35	36	37	38	38	38	A	38	38	37	38	38	39	39	39	40	40	36.3	39.9	
19-Dec-06	40	40	41	40	39	41	41	40	40	39	39	39	A	39	39	38	38	38	38	38	38	38	37	37	39.0	41.4	
20-Dec-06	35	35	35	34	33	32	31	32	32	32	33	A	34	35	35	34	33	31	31	30	31	30	29	29	32.3	35.4	
21-Dec-06	28	30	30	30	30	32	33	36	35	33	A	40	40	41	40	40	40	39	38	38	38	38	38	38	35.8	40.9	
22-Dec-06	38	38	38	38	38	38	38	37	37	A	37	37	37	37	37	38	37	36	34	35	36	35	35	35	36.7	38.1	
23-Dec-06	33	33	33	34	33	33	33	33	A	31	30	31	32	32	31	31	32	34	35	34	36	37	37	37	33.3	37.1	
24-Dec-06	36	35	34	34	35	35	35	A	36	35	36	36	36	35	35	35	35	36	37	37	38	37	38	37	35.6	37.7	
25-Dec-06	37	35	35	35	34	33	A	32	33	34	35	36	35	36	38	38	38	38	37	38	38	38	38	37	36.0	38.4	
26-Dec-06	37	37	37	37	38	A	37	37	37	37	37	38	39	38	38	38	38	37	37	37	35	35	36	36	37.0	38.6	
27-Dec-06	35	35	36	36	A	33	34	33	33	32	31	31	30	30	31	31	31	31	29	29	32	29	28	28	31.7	36.1	
28-Dec-06	28	26	27	A	26	26	25	24	24	21	22	26	29	29	29	28	28	26	24	23	23	25	25	26	25.6	28.7	
29-Dec-06	28	28	A	28	29	29	30	30	29	28	28	29	29	29	29	28	28	27	27	26	26	24	25	38	40	28.7	39.5
30-Dec-06	40	A	38	38	38	38	38	37	38	38	38	38	38	38	38	38	37	37	37	37	37	37	37	37	37.7	39.5	
31-Dec-06	A	36	36	36	35	35	36	35	35	34	34	35	35	35	35	35	34	34	34	34	37	37	38	38	A	35.4	37.9
Hourly Avg	29.6	29.3	29.2	29.3	28.6	28.7	28.8	28.7	28.6	28.0	28.6	30.1	30.7	31.1	31.5	31.1	30.2	29.5	30.0	29.0	30.0	29.4	30.0	29.8			
Hourly Max	40.2	40.4	40.7	40.3	39.3	41.3	41.4	39.7	39.8	39.5	39.3	40.5	40.2	40.9	40.0	40.3	39.5	38.8	38.5	38.9	38.9	39.5	39.9	39.9			

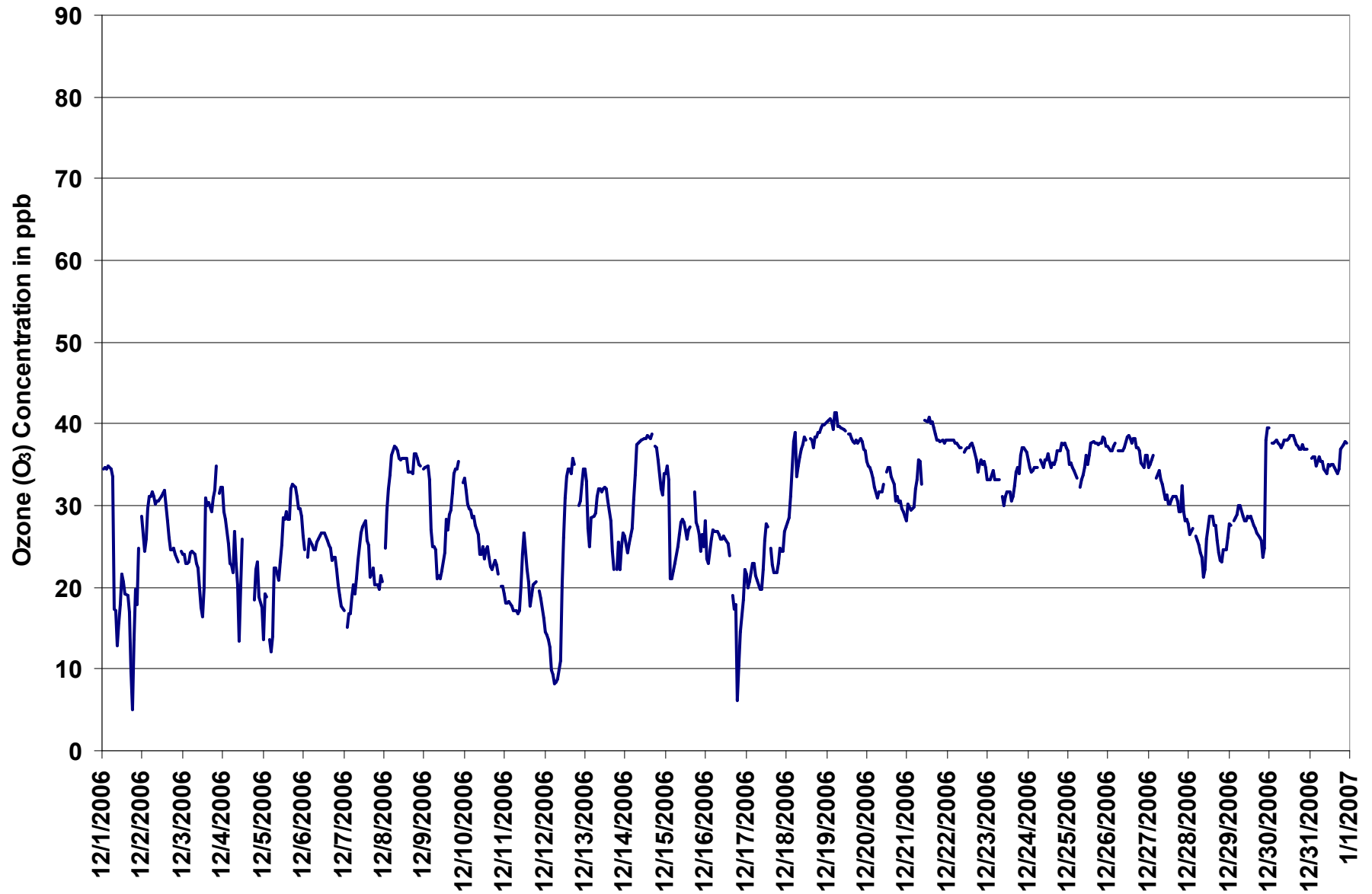
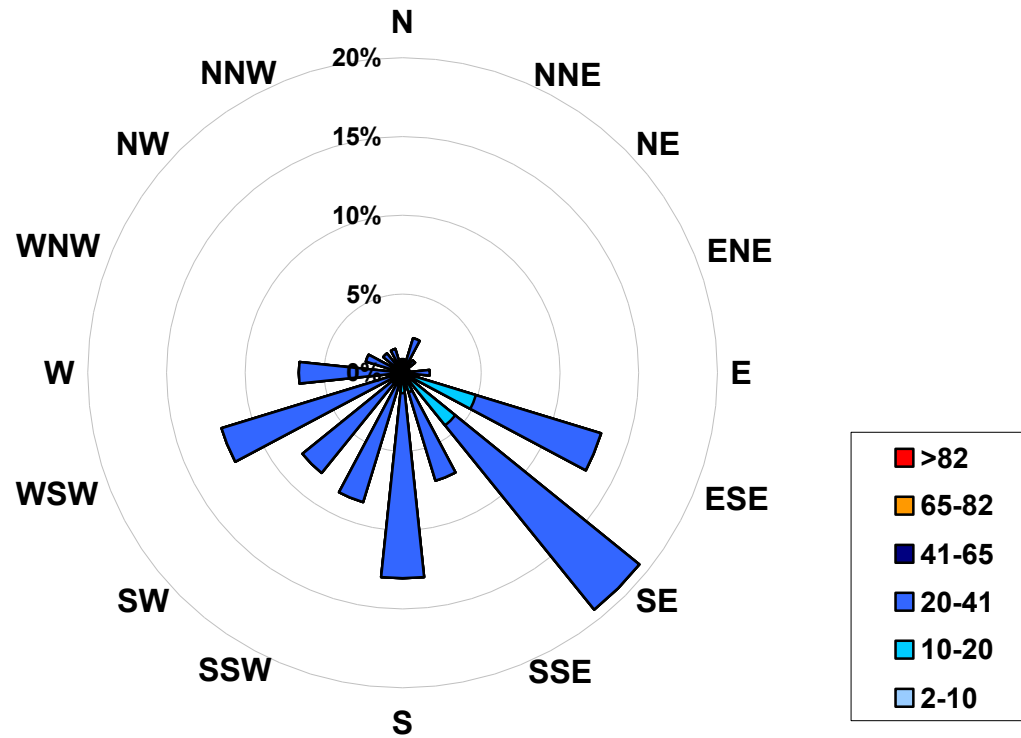


Figure 49. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Falher Site for December 2006



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	15	
10	to 20	97	
20	to 41	593	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			705

PASZA - Portable-Fahler - Ozone Eight Hour Average Monthly Summary

Ozone (O₃)

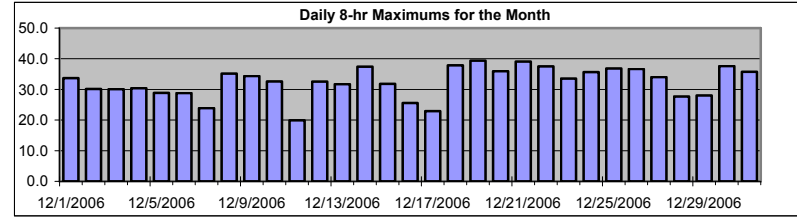
Station: Portable-Fahler
Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

Monitoring Dates: December 1, 2006 to January 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:		0			
Maximum 8-hr Average:		39.4	ppb	19-Dec	6:00 7:00



Percentile	99	95	75	50	25	5	1
	39.1	37.5	34.0	28.8	23.1	15.9	10.8

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

Day	Mountain Standard Time																								Daily Maximum
	Hour Start 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-Dec-06	33	33	33	34	34	34	33	29	27	24	21	19	17	15	14	15	15	14	13	12	11	10	11	10	33.7
2-Dec-06	12	15	18	20	23	25	27	27	28	29	30	30	30	30	30	29	29	28	27	27	26	24	24	23	30.1
3-Dec-06	23	23	23	23	23	23	23	23	23	22	22	21	20	19	20	20	21	22	24	25	28	29	29	30	30.1
4-Dec-06	30	30	30	29	27	27	25	24	23	21	19	18	19	18	N	N	N	N	N	N	N	N	N	N	30.4
5-Dec-06	N	17	17	17	16	15	13	14	15	15	16	17	19	21	23	24	25	26	27	28	29	29	29	29	28.8
6-Dec-06	29	28	28	26	26	25	24	24	24	24	24	25	25	25	25	25	25	25	24	24	23	23	22	21	28.8
7-Dec-06	20	20	18	17	16	16	16	16	17	17	18	20	21	22	23	24	24	24	23	22	21	20	20	19	23.9
8-Dec-06	19	19	20	22	24	26	29	31	32	33	34	35	35	35	35	34	34	34	34	34	34	34	34	34	35.2
9-Dec-06	34	34	34	33	32	30	28	28	26	24	22	21	21	21	21	22	22	24	25	27	29	30	31	31	34.4
10-Dec-06	32	33	32	32	31	30	30	29	28	27	26	26	25	24	24	23	23	22	22	22	22	22	21	21	32.6
11-Dec-06	20	19	19	18	18	17	17	17	17	16	17	17	18	18	18	18	18	18	18	18	17	17	17	17	19.9
12-Dec-06	16	16	15	14	13	12	11	10	9	9	9	11	13	16	20	23	26	29	32	32	33	32	32	32	32.5
13-Dec-06	32	31	30	29	28	28	27	27	26	27	28	30	30	30	30	30	29	27	26	24	22	21	20	20	31.7
14-Dec-06	20	21	21	23	23	24	26	27	29	30	32	34	35	37	37	37	37	37	37	37	36	34	33	32	37.4
15-Dec-06	32	32	30	28	27	27	26	25	24	23	23	24	25	26	26	26	27	27	26	26	26	26	26	25	31.8
16-Dec-06	25	25	24	24	24	24	24	25	25	25	26	26	26	25	24	24	23	21	19	16	14	12	11	13	25.6
17-Dec-06	13	13	14	17	19	20	20	20	19	19	19	20	21	21	21	22	23	23	23	23	22	22	22	22	22.9
18-Dec-06	23	24	25	26	27	28	29	31	32	33	34	35	35	35	36	36	36	37	37	37	37	37	38	38	37.8
19-Dec-06	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	38	38	38	38	37	37	37	36	39.4
20-Dec-06	36	35	35	34	34	33	32	32	31	31	31	30	30	31	31	32	32	32	32	31	31	30	30	29	35.9
21-Dec-06	29	28	28	28	28	28	29	30	30	31	31	33	34	35	36	37	38	39	39	39	39	38	38	38	39.1
22-Dec-06	38	37	37	37	38	37	37	37	37	37	37	37	37	37	36	36	36	36	35	35	35	35	34	34	37.5
23-Dec-06	33	33	33	33	32	32	32	32	32	32	31	31	31	30	30	30	29	30	30	31	31	32	33	34	33.6
24-Dec-06	34	34	34	34	34	34	33	33	33	33	33	33	33	34	34	34	34	33	34	34	34	34	35	36	35.7
25-Dec-06	36	36	36	36	35	34	34	33	33	33	33	33	33	33	34	34	35	36	36	36	36	37	37	37	36.8
26-Dec-06	37	36	36	36	36	36	36	36	35	35	35	35	35	35	36	36	36	36	36	36	35	35	35	35	36.7
27-Dec-06	34	34	33	33	33	33	33	32	33	33	32	31	31	31	30	30	30	30	30	29	29	29	29	29	34.0
28-Dec-06	28	27	26	26	26	25	25	24	23	23	22	22	22	23	23	24	24	25	26	25	25	24	24	24	27.7
29-Dec-06	24	24	25	25	26	27	27	28	28	28	28	28	28	28	28	28	27	27	27	26	26	25	26	27	28.0
30-Dec-06	29	29	31	33	35	37	38	37	37	37	37	37	37	37	37	37	37	37	37	37	37	36	36	36	37.6
31-Dec-06	36	36	35	35	35	35	35	35	35	35	34	34	34	34	34	34	34	34	34	34	34	34	35	35	35.7

Hourly Max	38.4	38.8	39.1	39.2	39.3	39.3	39.4	39.4	39.4	39.4	39.3	39.2	39.1	39.1	39.0	38.7	38.5	38.2	39.1	38.9	38.7	38.6	38.3	38.0	37.8
------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

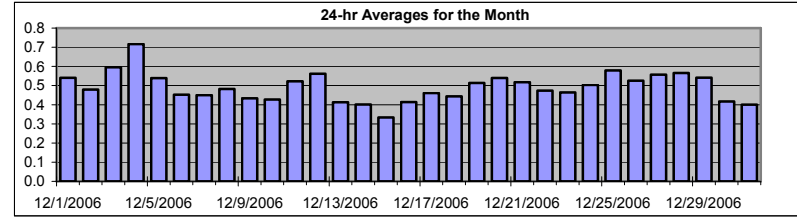
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Maximum 1-hr Average:	1.1	ppb	4-Dec	19:00 20:00
Maximum 24-hr Value:	0.7	ppb	4-Dec	



AIC Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.6	0.5	0.5	0.4	0.4	0.3	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	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-Dec-06	A	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	0.5	0.6	
2-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	A	0.5	0.6	
3-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.7	
4-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C	1	1	1	1	1	0.7	1.1	
5-Dec-06	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.8	
6-Dec-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	
7-Dec-06	0	A	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	
8-Dec-06	A	0	0	0	1	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	A	0.5	0.6	
9-Dec-06	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5	
10-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5	
11-Dec-06	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.5	0.6	
12-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	A	1	1	1	0	0.6	0.7	
13-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.5	
14-Dec-06	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.5	
15-Dec-06	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-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.5	
17-Dec-06	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	1	0	0	1	1	0	0	0	0.5	0.5	
18-Dec-06	0	0	0	0	0	0	1	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
19-Dec-06	1	1	1	1	1	0	1	1	0	1	0	1	A	0	0	0	0	0	1	0	1	1	1	1	0.5	0.6	
20-Dec-06	1	1	1	1	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0.5	0.6	
21-Dec-06	0	1	0	0	0	0	0	0	1	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	0.5	0.6	
22-Dec-06	0	1	0	0	0	1	0	0	1	A	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.5	0.5	
23-Dec-06	0	0	0	0	0	0	0	0	A	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0.5	0.5	
24-Dec-06	1	0	0	1	0	0	1	A	1	1	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0.5	0.6	
25-Dec-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.6	0.7	
26-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	1	0	0.5	0.6	
27-Dec-06	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6	
28-Dec-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6	0.7	
29-Dec-06	1	1	A	1	1	1	1	1	1	1	1	0	1	0	0	0	1	0	1	1	1	1	0	0	0.5	0.7	
30-Dec-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
31-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Hourly Max	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	1.1	0.9	1.0	0.8	0.8	0.8	

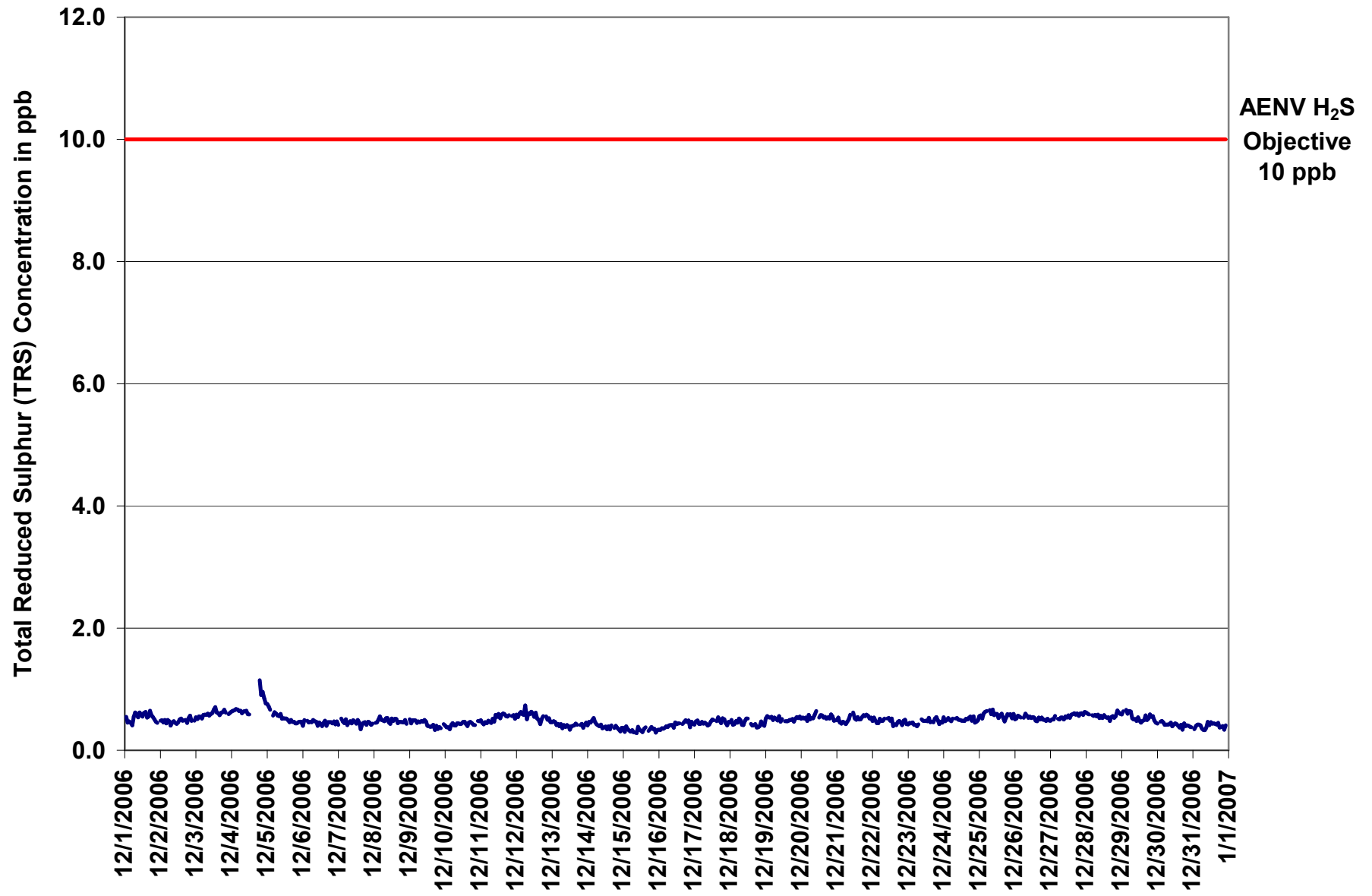


Figure 50. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

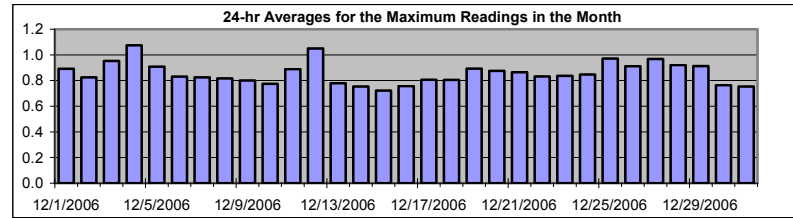
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	4.2	ppb	12-Dec	6:00 7:00
Maximum 24-hr Value:	1.1	ppb	4-Dec	



AIC Time:	33 hrs	Operational Time:	705 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	1.0	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

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-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1	
2-Dec-06	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	
3-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.0	
4-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C	2	2	1	1	1	1.1	1.7	
5-Dec-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
6-Dec-06	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	
7-Dec-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
8-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0	
9-Dec-06	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	
10-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.0	
11-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.1	
12-Dec-06	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	4.2	
13-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	0.9	
14-Dec-06	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	
15-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0	
16-Dec-06	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	
17-Dec-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.0	
18-Dec-06	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	
19-Dec-06	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	1.2	
20-Dec-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0	
21-Dec-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0	
22-Dec-06	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	
23-Dec-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
24-Dec-06	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	
25-Dec-06	1	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	1.3	
26-Dec-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1	
27-Dec-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4	
28-Dec-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1	
29-Dec-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1	
30-Dec-06	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	
31-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	0.9	
Hourly Avg	0.9	0.9	0.9	0.8	0.9	0.9	1.0	0.9	0.8	0.9	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	0.9		
Hourly Max	1.2	1.1	1.1	1.0	1.1	1.3	4.2	1.4	1.0	1.0	1.0	1.1	1.0	1.0	1.1	1.0	1.0	1.1	1.1	1.7	1.5	1.3	1.2	1.1			

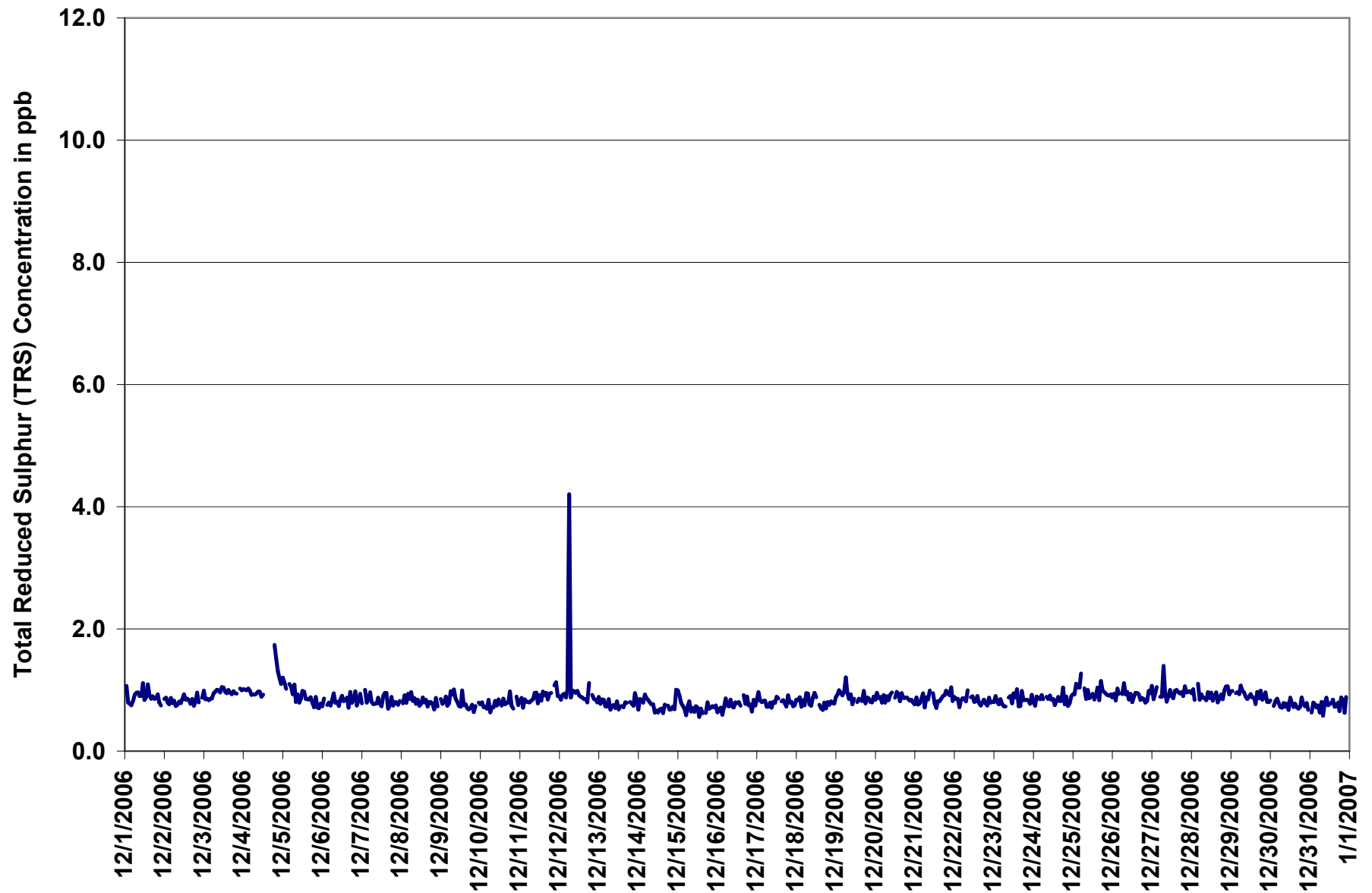
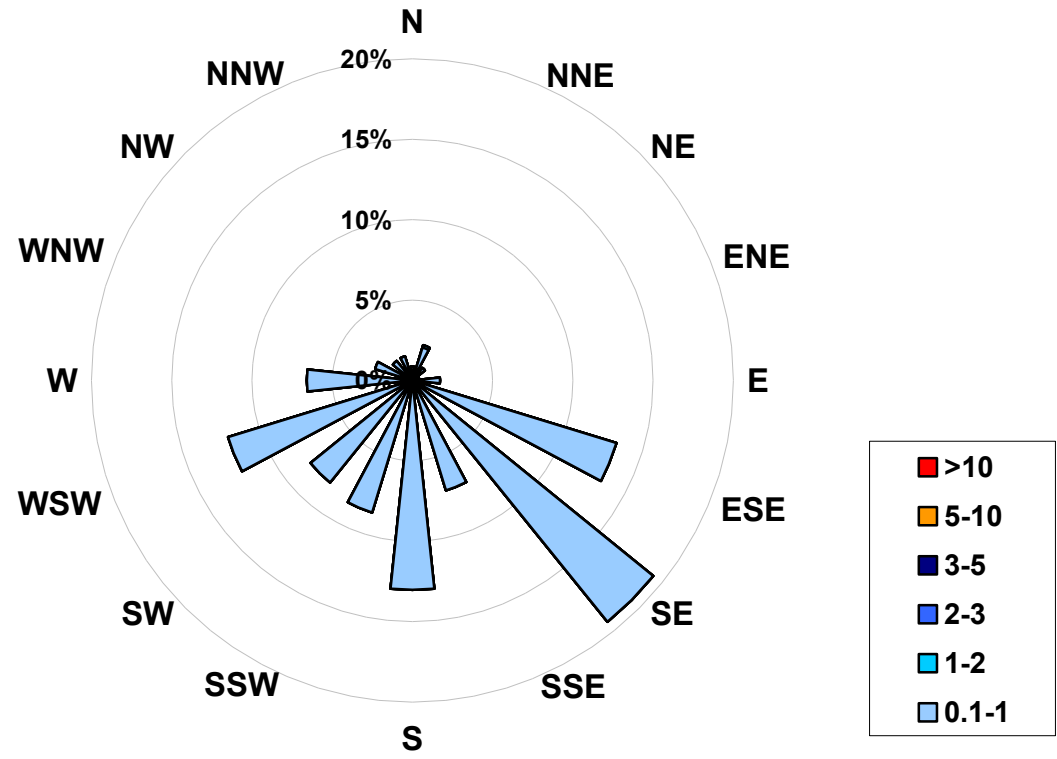


Figure 51. PASZA - Portable-Fahler Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb) Located at the Portable-Falher Site for December 2006



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	704
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			705

PASZA - Portable-Falher - Relative Humidity Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

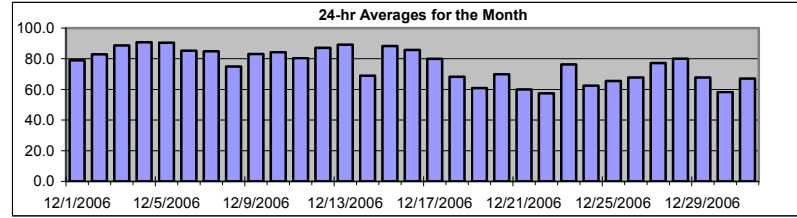
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	95.9 %	13-Dec	21:00 22:00
Maximum 24-hr Value:	90.8 %	4-Dec	



AIC Time:	0 hrs	Operational Time:	743 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.5	91.7	85.9	77.3	67.6	55.3	49.9	76.2 %	77.3 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Dec-06	76	75	76	77	78	80	82	81	80	79	79	79	79	79	79	80	81	81	80	80	80	78	78	78	78.9	82.1
2-Dec-06	78	77	77	77	78	78	79	79	79	79	80	81	82	84	82	79	86	89	92	91	91	91	90	90	82.9	91.5
3-Dec-06	89	89	88	89	90	90	90	90	90	90	88	88	88	89	87	86	87	87	86	89	91	90	89	89	88.7	91.1
4-Dec-06	90	91	92	94	93	91	90	89	89	88	87	87	89	M	91	91	91	92	92	92	92	92	92	92	90.8	94.1
5-Dec-06	92	93	93	93	94	94	94	95	96	95	95	92	90	88	88	88	87	84	85	85	86	88	88	88	90.5	95.6
6-Dec-06	87	86	85	84	84	85	85	85	85	85	85	85	85	86	86	85	85	86	85	85	85	85	86	87	85.2	86.7
7-Dec-06	87	88	88	88	88	87	88	88	86	86	87	82	80	78	81	81	83	83	84	85	86	86	83	84	84.9	88.0
8-Dec-06	84	82	76	74	68	67	70	73	73	74	74	74	73	75	78	77	77	78	74	75	76	75	75	76	74.9	83.8
9-Dec-06	73	79	83	91	94	93	91	90	88	87	87	88	90	92	93	88	80	77	72	70	71	71	71	74	83.0	93.6
10-Dec-06	77	80	81	81	81	84	85	86	86	87	88	87	85	83	83	84	84	85	86	87	87	86	86	85	84.3	87.6
11-Dec-06	85	85	86	87	87	87	86	85	85	84	83	77	75	78	78	80	77	77	75	76	73	73	75	78	80.4	87.0
12-Dec-06	80	80	82	84	89	90	90	88	87	87	90	95	94	91	84	83	86	84	84	90	95	93	84	80	87.1	95.4
13-Dec-06	84	91	92	89	88	89	86	84	80	78	81	89	92	91	90	91	93	95	93	93	94	96	93	88	89.2	95.9
14-Dec-06	84	81	75	76	68	69	66	63	64	65	65	65	62	60	63	64	64	67	65	65	70	77	79	76	69.0	84.2
15-Dec-06	78	77	84	87	88	89	91	91	91	91	91	91	90	90	88	88	90	90	89	89	88	89	90	89	88.3	91.1
16-Dec-06	89	90	90	90	89	89	89	89	90	89	88	88	87	85	83	84	86	83	83	81	79	79	80	80	85.7	90.0
17-Dec-06	80	80	80	81	79	80	79	79	78	79	78	79	80	81	81	82	83	83	84	85	79	76	75	76	79.9	85.4
18-Dec-06	72	72	74	75	76	79	76	72	69	72	69	70	68	66	66	66	68	64	61	61	60	60	60	62	68.3	78.7
19-Dec-06	62	62	61	60	63	73	73	68	62	57	58	55	52	52	55	60	60	61	63	62	59	62	57	64	60.9	73.2
20-Dec-06	65	62	64	67	67	68	69	71	72	72	69	66	69	69	71	69	72	71	71	73	74	76	76	77	69.9	77.0
21-Dec-06	76	73	73	74	73	73	70	70	65	67	61	48	51	48	52	53	47	52	56	58	55	49	50	48	60.0	76.1
22-Dec-06	46	48	50	51	53	55	57	60	65	66	61	58	55	53	53	55	55	57	61	62	61	66	62	67	57.4	67.1
23-Dec-06	71	77	75	73	77	76	75	74	74	74	72	74	73	75	75	75	76	74	71	78	85	89	86	81	76.3	88.8
24-Dec-06	79	80	68	67	65	69	68	65	62	64	63	63	58	62	60	56	58	58	55	51	54	51	57	65	62.4	79.6
25-Dec-06	66	71	69	70	68	68	67	65	65	67	74	76	73	73	67	62	60	56	55	55	57	60	61	65	65.5	75.5
26-Dec-06	65	68	68	67	70	70	72	73	73	72	69	64	62	59	63	62	61	61	63	67	73	77	73	74	67.7	77.0
27-Dec-06	76	77	72	72	76	77	77	76	77	78	76	77	77	79	81	80	80	80	80	77	77	77	77	76	77.2	80.6
28-Dec-06	79	81	82	81	79	82	83	85	88	87	85	83	80	77	76	75	76	77	79	79	79	76	76	75	80.1	88.2
29-Dec-06	73	73	74	74	74	76	74	73	70	69	69	65	63	59	58	61	63	66	70	72	71	62	58	57	67.7	75.5
30-Dec-06	57	58	61	60	55	55	53	52	53	52	52	54	54	56	59	60	60	61	62	62	65	65	66	67	58.3	67.1
31-Dec-06	66	66	66	65	71	69	68	65	68	70	69	69	68	66	66	65	66	66	65	64	68	71	67	65	67.1	71.4
Hourly Avg	76.3	77.2	76.9	77.4	77.5	78.5	78.2	77.6	77.1	77.2	76.5	75.7	75.0	74.1	74.7	74.6	74.8	75.0	74.8	75.5	76.2	76.4	75.5	75.9		
Hourly Max	92.4	92.6	92.7	94.1	93.7	94.1	94.3	94.9	95.6	94.8	94.8	94.5	94.4	92.1	92.6	91.4	93.4	95.3	93.1	92.7	95.4	95.9	93.2	92.1		

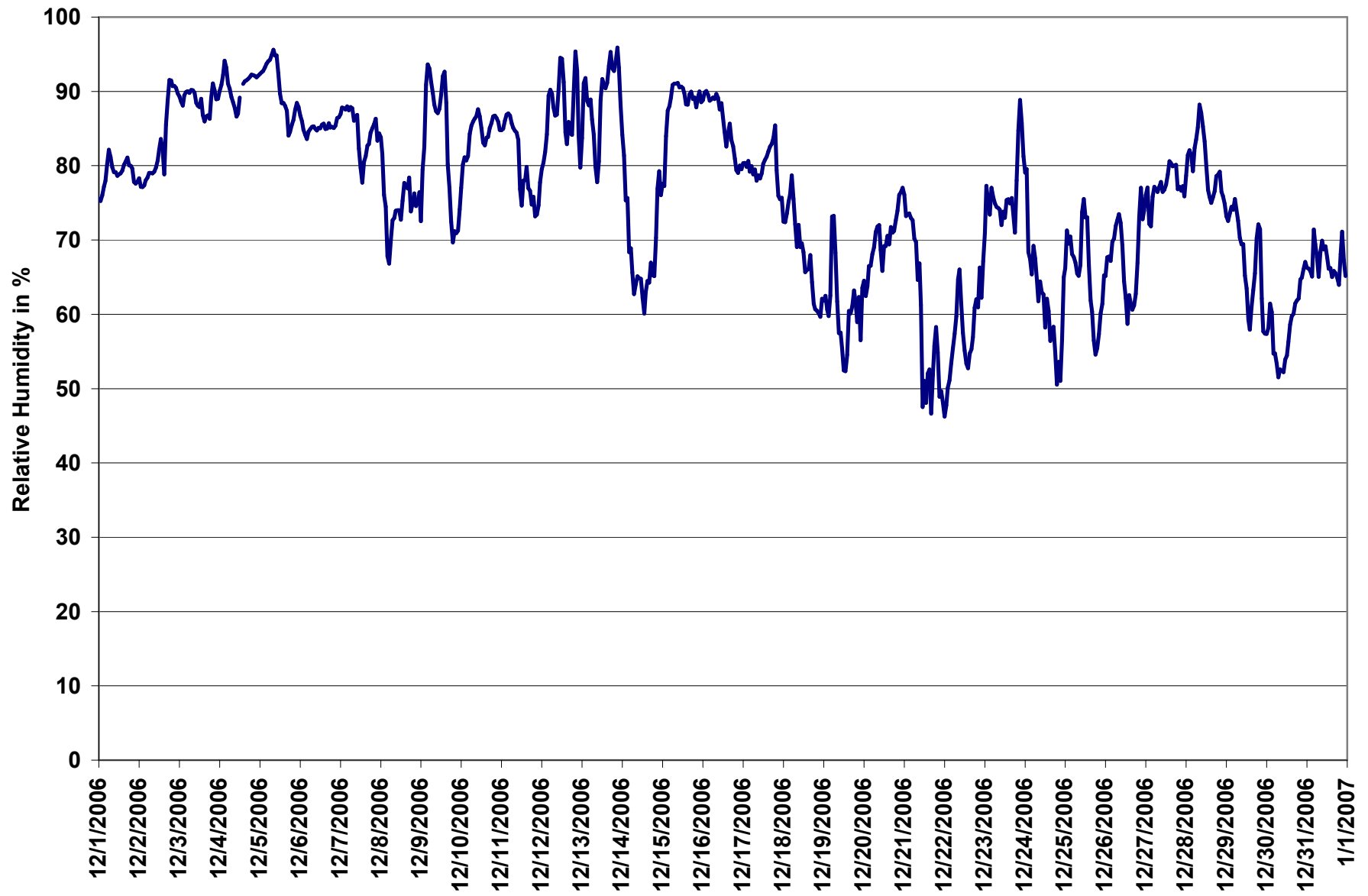


Figure 52. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Falher - Temperature Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

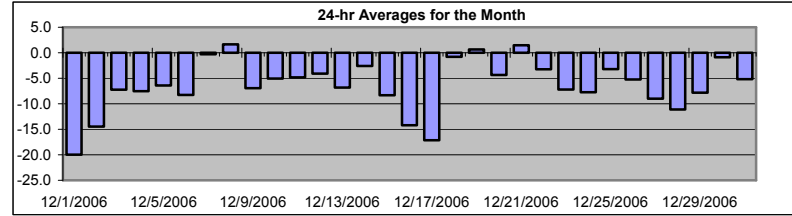
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	6.6 °C	21-Dec	11:00 12:00
Maximum 24-hr Value:	1.7 °C	8-Dec	



AIC Time:	0 hrs	Operational Time:	743 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.9	1.8	-2.5	-5.7	-9.1	-19.1	-22.1	-6.3 °C	-5.7 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Dec-06	-18	-17	-18	-18	-18	-19	-21	-21	-23	-22	-22	-20	-20	-19	-18	-18	-18	-18	-21	-20	-21	-24	-24	-23	-20.0	-17.3	
2-Dec-06	-22	-24	-24	-23	-21	-21	-19	-19	-20	-19	-18	-17	-15	-13	-10	-9	-8	-7	-6	-6	-7	-7	-7	-7	-14.5	-5.6	
3-Dec-06	-7	-7	-7	-7	-7	-7	-8	-9	-9	-9	-9	-9	-9	-8	-7	-8	-8	-7	-6	-5	-5	-5	-6	-5	-7.2	-4.7	
4-Dec-06	-4	-4	-5	-5	-7	-8	-8	-9	-10	-10	-11	-11	-8	M	-6	-6	-7	-8	-8	-7	-7	-8	-8	-8	-7.5	-3.6	
5-Dec-06	-8	-7	-9	-6	-6	-5	-5	-4	-4	-3	-5	-6	-7	-7	-7	-7	-7	-8	-8	-8	-8	-8	-8	-8	-6.4	-3.5	
6-Dec-06	-8	-8	-7	-10	-11	-12	-12	-12	-12	-12	-12	-12	-10	-9	-7	-7	-7	-5	-4	-3	-3	-3	-4	-4	-8.3	-3.0	
7-Dec-06	-4	-4	-3	-2	-2	-1	0	0	1	0	0	1	2	3	2	2	1	2	1	0	-1	-2	-1	-2	-0.3	2.8	
8-Dec-06	-2	-1	2	2	5	5	5	4	3	3	3	3	4	3	3	3	2	0	0	0	-2	-2	-3	-3	1.7	5.4	
9-Dec-06	-2	-5	-5	-8	-10	-11	-10	-11	-12	-13	-13	-12	-11	-7	-5	-5	-5	-4	-3	-2	-3	-3	-3	-4	-6.9	-2.5	
10-Dec-06	-5	-5	-5	-4	-4	-6	-6	-5	-5	-4	-4	-3	-3	-3	-4	-5	-5	-7	-7	-8	-8	-6	-5	-5	-5.1	-3.0	
11-Dec-06	-6	-7	-8	-8	-9	-9	-9	-9	-8	-7	-5	-2	-1	-4	-4	-5	-3	-2	-1	-1	-1	-1	-2	-3	-4.8	-0.6	
12-Dec-06	-3	-4	-5	-5	-7	-8	-6	-5	-5	-4	-2	-1	0	0	0	-1	-3	-3	-4	-5	-6	-6	-7	-6	-4.1	0.1	
13-Dec-06	-8	-10	-12	-14	-12	-10	-8	-6	-6	-5	-5	-5	-4	-5	-5	-6	-6	-6	-5	-5	-5	-7	-6	-4	-6.8	-4.1	
14-Dec-06	-4	-4	-2	-3	-1	-1	0	0	0	-1	-1	0	0	1	0	-1	-2	-3	-4	-5	-7	-9	-9	-7	-2.6	0.9	
15-Dec-06	-7	-7	-8	-8	-8	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8	-9	-9	-9	-9	-9	-9	-9	-10	-10	-8.3	-6.5	
16-Dec-06	-10	-10	-10	-10	-11	-11	-11	-11	-12	-13	-13	-13	-12	-12	-13	-13	-18	-17	-18	-19	-21	-21	-20	-20	-14.2	-10.1	
17-Dec-06	-20	-19	-20	-19	-21	-20	-21	-20	-22	-22	-20	-18	-16	-15	-15	-16	-16	-16	-15	-14	-11	-11	-12	-11	-17.2	-10.9	
18-Dec-06	-9	-8	-7	-6	-3	-2	-3	-2	-1	-1	0	1	0	1	1	1	1	2	2	3	3	3	2	2	-0.8	3.1	
19-Dec-06	2	1	1	4	4	3	2	2	1	1	0	1	1	1	1	-1	-1	-1	-1	-1	-1	0	-2	0.7	4.4		
20-Dec-06	-3	-4	-5	-6	-6	-6	-7	-8	-8	-7	-6	-3	-2	-2	-2	-1	-2	-2	-2	-3	-4	-5	-5	-5	-4.4	-1.4	
21-Dec-06	-5	-4	-4	-4	-3	-2	-1	0	2	1	4	7	6	7	6	6	5	4	3	2	2	1	0	1.5	6.6		
22-Dec-06	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3	-4	-5	-6	-8	-7	-6	-7	-5	-7	-3.2	0.2	
23-Dec-06	-8	-12	-12	-10	-9	-9	-10	-10	-10	-9	-8	-7	-6	-6	-5	-5	-6	-6	-3	-3	-3	-5	-5	-6	-7.2	-2.8	
24-Dec-06	-6	-8	-8	-9	-9	-10	-10	-10	-9	-10	-10	-10	-9	-10	-10	-9	-9	-8	-6	-5	-4	-3	-2	-2	-7.7	-2.1	
25-Dec-06	-2	-3	-2	-2	-3	-3	-5	-5	-4	-4	-5	-6	-5	-4	-1	0	-1	-1	-2	-3	-4	-3	-4	-3.2	-0.3		
26-Dec-06	-5	-5	-5	-3	-5	-4	-3	-4	-5	-5	-5	-4	-3	-3	-4	-4	-4	-5	-5	-6	-9	-10	-9	-9	-5.2	-2.9	
27-Dec-06	-10	-10	-9	-9	-10	-11	-10	-10	-10	-9	-9	-9	-9	-9	-8	-7	-7	-7	-8	-8	-8	-8	-10	-10	-9.0	-7.1	
28-Dec-06	-10	-11	-10	-10	-10	-10	-11	-12	-15	-15	-15	-14	-13	-12	-12	-11	-10	-10	-10	-9	-10	-8	-8	-8	-11.1	-8.2	
29-Dec-06	-9	-9	-10	-10	-11	-12	-12	-12	-11	-11	-11	-9	-8	-7	-6	-6	-6	-5	-6	-6	-6	-5	-3	1	-7.8	1.3	
30-Dec-06	1	1	0	0	0	-1	-1	-1	-1	-1	0	0	0	1	1	1	0	-1	-2	-2	-3	-4	-4	-5	-0.9	1.4	
31-Dec-06	-5	-5	-5	-5	-8	-7	-6	-6	-6	-6	-5	-5	-5	-5	-5	-5	-6	-6	-6	-5	-5	-4	-2	-2	-5.2	-1.5	
Hourly Avg	-6.6	-7.1	-7.2	-7.1	-7.1	-7.3	-7.3	-7.2	-7.5	-7.4	-7.0	-6.2	-5.6	-5.0	-4.9	-5.0	-5.5	-5.5	-5.5	-5.6	-5.8	-6.2	-6.1	-6.0			
Hourly Max	2.1	1.2	1.7	4.2	4.9	5.4	4.8	4.0	3.3	3.4	3.5	6.6	6.0	6.5	5.8	5.5	5.3	4.2	3.1	2.8	3.1	3.1	2.6	1.7			

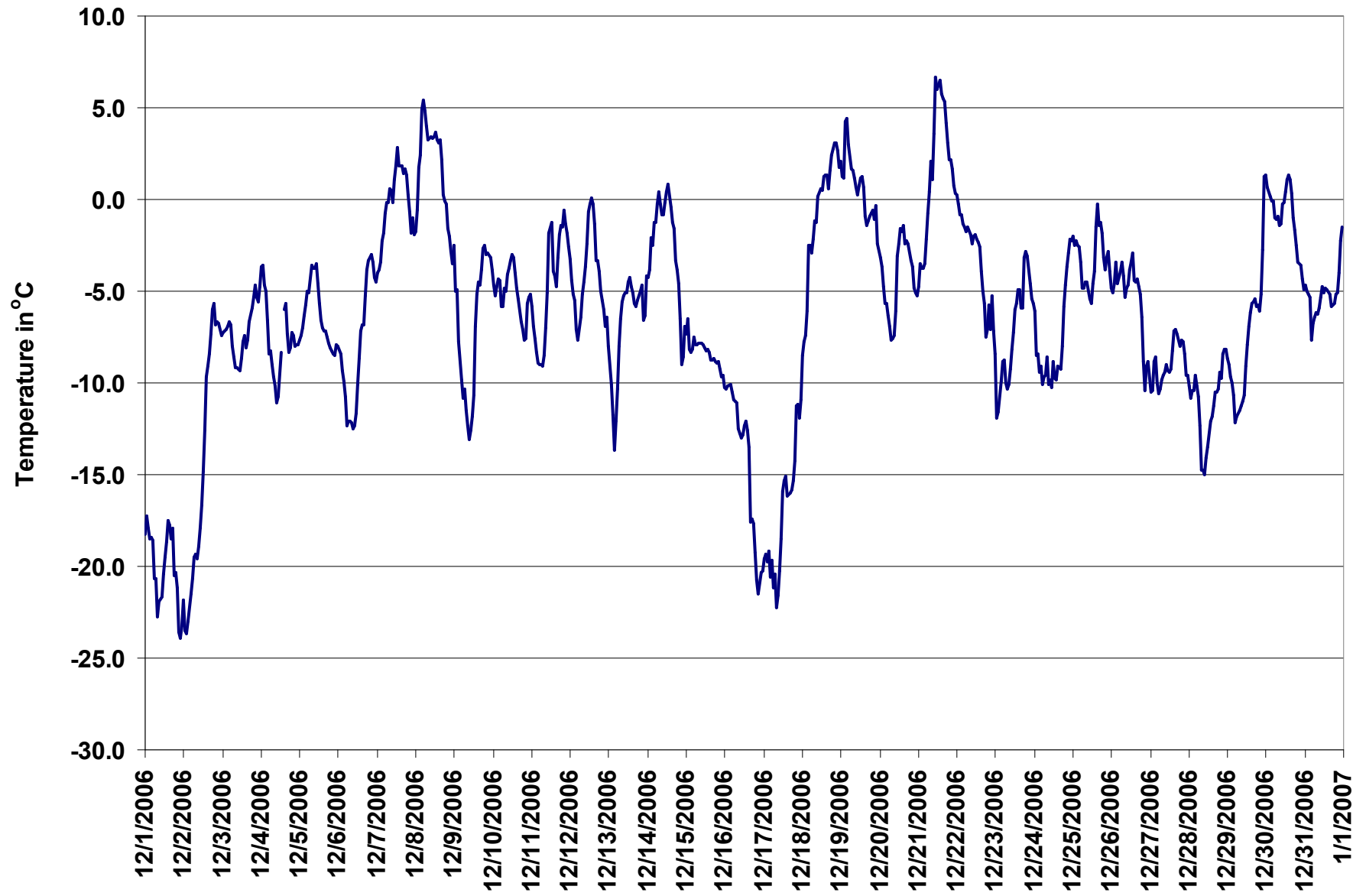


Figure 53. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

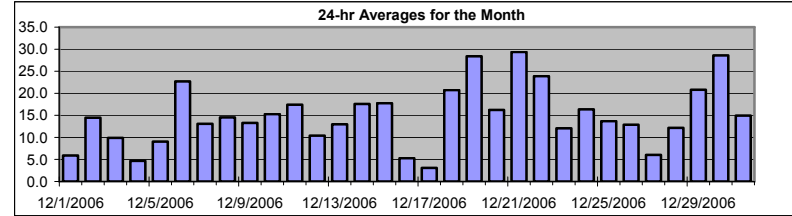
Wind Speed (WSs)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	47.3	km/hr	19-Dec	6:00 7:00
Maximum 24-hr Value:	29.4	km/hr	21-Dec	

Calm Time:	0 hrs	0% calms	Operational Time:	737 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	43.4	31.7	20.3	14.1	8.4	2.8	1.0	15.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Dec-06	6	6	6	3	3	1	4	5	5	4	5	4	5	6	6	6	6	7	8	10	8	10	11	5.9	11.2	
2-Dec-06	10	10	11	11	10	11	12	14	18	19	17	20	19	14	21	22	19	21	18	14	8	5	10	13	14.5	21.8
3-Dec-06	9	7	8	9	8	6	5	3	2	3	3	5	4	5	9	11	14	16	16	16	17	22	22	18	9.9	22.2
4-Dec-06	12	10	7	5	5	6	8	6	7	6	N	4	4	M	3	2	2	2	3	1	2	3	1	3	4.7	12.3
5-Dec-06	5	4	3	2	3	1	4	16	15	12	8	10	8	11	13	13	11	13	11	9	12	13	10	10	9.1	15.6
6-Dec-06	16	17	22	23	23	24	28	29	25	20	20	31	30	26	23	22	21	21	27	25	23	19	17	14	22.7	30.8
7-Dec-06	15	11	12	12	10	8	9	11	15	14	15	13	11	13	13	16	14	14	15	20	17	13	11	10	13.1	20.4
8-Dec-06	12	13	17	16	26	15	18	20	16	15	16	22	22	16	7	2	8	11	14	16	15	12	11	8	14.5	25.7
9-Dec-06	8	4	3	5	7	9	7	8	6	8	8	10	14	10	8	14	21	24	24	25	24	27	23	23	13.3	27.4
10-Dec-06	23	20	22	22	17	15	16	17	12	13	11	12	12	7	11	14	13	14	16	15	15	14	17	20	15.3	22.9
11-Dec-06	16	22	23	20	20	21	20	20	15	13	11	14	15	12	10	15	18	18	18	16	22	23	20	18	17.4	23.4
12-Dec-06	20	15	4	5	5	4	5	5	9	7	11	21	22	21	19	16	11	6	6	6	8	6	7	10	10.4	21.7
13-Dec-06	12	10	12	16	16	19	20	20	24	20	16	17	15	17	9	4	2	3	4	10	10	10	12	15	13.0	24.2
14-Dec-06	18	15	14	14	18	19	24	26	24	22	23	24	24	22	16	21	22	10	8	6	11	13	14	15	17.6	26.1
15-Dec-06	15	14	16	21	21	18	16	18	27	24	24	27	27	24	19	19	18	14	14	13	13	9	6	7	17.7	27.2
16-Dec-06	4	4	4	9	11	9	10	7	10	8	4	6	4	4	4	1	3	2	2	3	5	3	6	5	5.3	10.7
17-Dec-06	1	1	1	2	2	2	2	2	2	N	N	N	N	N	1	1	1	1	2	1	8	12	8	10	3.1	12.0
18-Dec-06	16	17	17	16	21	19	21	22	21	22	23	21	23	22	20	20	22	22	21	21	26	24	20	18	20.7	25.5
19-Dec-06	29	27	21	43	45	43	47	44	46	43	39	35	35	35	28	17	8	9	14	15	17	16	12	12	28.4	47.3
20-Dec-06	14	15	20	17	17	11	17	18	16	19	18	19	16	15	9	9	16	14	15	14	17	18	23	22	16.2	22.8
21-Dec-06	25	26	28	26	26	21	25	22	30	21	26	32	23	28	26	26	40	34	27	27	42	45	42	39	29.4	45.1
22-Dec-06	41	42	34	33	29	31	31	35	32	30	32	32	27	22	17	12	10	14	11	13	13	10	13	9	23.9	42.2
23-Dec-06	14	15	15	14	15	14	15	15	12	6	4	6	5	8	4	4	11	17	21	16	17	14	14	14	12.1	21.2
24-Dec-06	9	8	14	11	12	9	13	12	7	10	13	11	15	12	15	14	16	24	29	31	20	27	34	26	16.4	33.5
25-Dec-06	21	20	16	8	7	9	11	12	12	11	12	12	14	15	13	17	11	12	14	18	17	18	16	12	13.7	21.3
26-Dec-06	12	11	15	21	18	15	21	17	16	19	19	23	17	9	6	10	9	11	10	8	5	6	5	4	12.9	23.0
27-Dec-06	7	8	11	7	4	8	9	9	4	2	1	3	2	3	6	9	9	7	8	7	7	7	5	4	6.0	10.6
28-Dec-06	6	6	6	4	4	6	8	8	10	7	8	9	10	12	14	18	20	23	21	18	12	19	21	22	12.2	23.4
29-Dec-06	17	16	13	14	15	18	20	22	26	26	26	27	24	28	28	28	27	25	10	9	10	8	16	44	20.8	43.9
30-Dec-06	45	39	41	37	33	26	28	31	27	26	32	30	35	34	34	33	30	24	20	16	17	19	16	15	28.6	44.7
31-Dec-06	12	12	13	12	10	9	14	14	22	19	19	18	19	18	16	17	18	15	16	13	13	12	15	14	15.0	21.7
1-hr Average	15.2	14.3	14.5	14.8	14.8	13.8	15.6	16.4	16.5	15.6	16.0	17.3	16.7	16.2	13.8	14.0	14.6	14.5	14.2	13.9	14.6	14.7	14.7	15.1		
Hourly Max	44.7	42.2	41.2	42.8	45.1	43.5	47.3	44.4	46.0	43.4	39.1	35.4	34.7	35.0	34.3	33.1	40.1	34.4	28.9	31.4	41.6	45.1	41.5	43.9		

PASZA - Portable-Falher - Vector Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

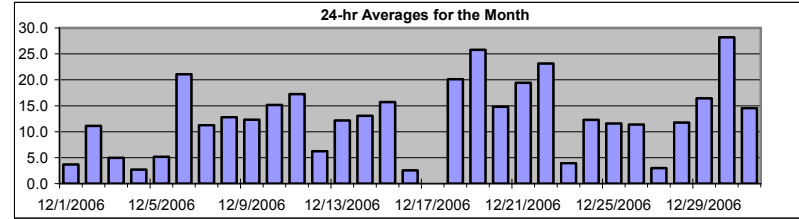
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	47.1	km/hr	19-Dec	6:00 7:00
Maximum 24-hr Value:	28.2	km/hr	30-Dec	



Calm Time:	0 hrs	0% calms	Operational Time:	737 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	43.1	31.6	20.1	14.0	8.3	2.4	0.9	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 Vector Average	Daily Max	
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-Dec-06	6	6	6	3	3	1	4	5	4	3	5	4	5	6	6	6	6	6	7	8	9	8	10	11		3.7	11.1
2-Dec-06	10	10	11	11	10	11	12	14	18	19	17	20	19	13	21	22	19	21	18	14	8	4	10	13		11.1	21.8
3-Dec-06	9	7	8	9	8	6	5	3	2	2	3	5	4	5	8	10	14	16	16	16	17	22	22	18		5.0	22.2
4-Dec-06	12	10	7	5	5	6	7	4	5	6	N	4	3	M	2	2	1	2	3	0	1	3	1	3		2.7	12.0
5-Dec-06	5	4	3	2	2	0	4	16	15	12	8	10	8	11	13	13	11	13	11	9	11	13	9	9		5.2	15.6
6-Dec-06	16	17	22	23	22	24	27	28	25	20	20	31	30	25	23	22	21	21	27	25	23	19	17	14		21.1	30.8
7-Dec-06	15	11	12	12	10	8	9	11	15	14	15	13	11	13	13	16	13	13	15	20	17	13	11	10		11.3	20.4
8-Dec-06	12	13	16	15	25	15	18	20	16	15	16	22	22	16	7	2	8	11	14	16	15	12	11	4		12.8	24.5
9-Dec-06	8	1	1	4	7	8	6	8	6	8	8	10	14	9	8	13	21	24	24	25	24	27	23	23		12.3	27.3
10-Dec-06	23	20	22	22	17	14	16	17	12	13	11	12	12	7	11	13	13	14	16	15	15	14	17	20		15.2	22.8
11-Dec-06	16	22	23	20	20	21	20	20	14	13	11	14	14	12	9	15	18	18	17	16	22	23	20	17		17.3	23.4
12-Dec-06	19	15	1	4	5	4	4	5	8	6	11	21	22	21	19	16	10	6	4	6	8	5	7	10		6.3	21.7
13-Dec-06	12	9	12	16	16	19	20	20	24	20	16	16	15	17	9	3	1	2	4	9	10	9	12	15		12.2	24.1
14-Dec-06	18	15	13	13	18	19	24	26	24	22	23	24	24	21	16	21	22	10	8	4	11	13	14	15		13.1	26.0
15-Dec-06	15	13	16	21	21	18	16	18	27	24	24	27	27	24	19	19	18	14	14	13	13	9	6	7		15.7	27.2
16-Dec-06	3	3	4	9	11	8	10	7	10	8	4	6	4	4	4	1	3	2	2	3	5	3	6	5		2.6	10.7
17-Dec-06	1	1	1	2	2	2	2	1	2	N	N	N	N	N	1	1	1	1	2	1	8	12	7	10		-	12.0
18-Dec-06	16	17	17	16	20	19	20	22	21	22	23	21	23	22	20	20	21	22	21	21	25	24	20	18		20.1	25.5
19-Dec-06	29	27	20	43	45	43	47	44	46	43	39	35	35	35	28	17	8	9	14	14	17	15	12	12		25.8	47.1
20-Dec-06	14	15	19	17	17	10	16	18	16	19	18	19	15	15	9	9	16	14	15	14	17	18	23	22		14.8	22.7
21-Dec-06	25	26	28	26	26	20	25	22	30	21	25	32	23	28	25	26	40	34	27	26	42	45	41	39		19.4	45.1
22-Dec-06	41	42	34	33	29	31	31	35	32	30	32	32	27	22	17	11	10	14	10	13	13	10	13	9		23.2	42.2
23-Dec-06	14	15	15	14	15	14	15	14	12	6	3	6	5	8	4	4	11	17	21	16	17	14	14	14		4.0	20.9
24-Dec-06	8	7	13	11	12	9	13	11	7	9	13	11	15	12	15	14	16	24	29	31	19	27	34	26		12.3	33.5
25-Dec-06	21	20	16	8	6	9	11	12	12	11	11	12	14	15	13	17	11	12	14	18	17	18	16	11		11.6	21.2
26-Dec-06	12	11	15	21	17	15	21	16	16	19	19	23	17	9	6	9	9	10	10	8	4	6	4	4		11.4	22.9
27-Dec-06	6	8	10	7	4	7	9	9	3	2	0	3	2	2	6	9	9	7	8	7	6	7	4	2		3.0	9.9
28-Dec-06	4	6	6	4	4	6	8	8	9	7	7	9	10	12	13	18	20	23	20	18	12	19	21	22		11.8	23.3
29-Dec-06	17	16	13	14	15	18	20	22	26	26	26	27	24	28	28	28	27	25	7	8	8	8	15	44		16.4	43.8
30-Dec-06	45	38	41	37	33	26	28	31	27	26	32	30	35	34	34	33	30	24	20	15	17	19	16	15		28.2	44.6
31-Dec-06	12	12	13	11	9	8	14	13	22	19	19	18	19	18	16	17	18	15	15	13	13	12	15	14		14.5	21.7
1-hr Vector	9.0	8.5	7.8	7.4	7.0	6.0	7.3	7.7	8.1	7.9	8.6	8.1	7.7	7.4	6.3	6.3	7.0	7.5	7.3	8.1	7.7	7.8	8.1	8.6			
Hourly Max	44.6	42.2	41.2	42.6	45.0	42.7	47.1	44.4	46.0	43.4	39.1	35.3	34.7	34.9	34.2	33.0	39.9	34.3	28.8	31.3	41.6	45.1	41.5	43.8			

PASZA - Portable-Falher - Wind Direction Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Calm Time: 0 hrs		0% calms		Operational Time: 737 hrs				
Calibration Time: 0 hrs		AMD Operational Uptime: 99.1%						
Percentile	99	95	75	50	25	5	1	Average
	336.2	289.2	234.7	173.9	127.0	90.7	23.6	185 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Dec-06	308	304	292	289	275	0	131	136	136	141	128	144	122	125	132	131	124	175	121	119	115	102	113	110	126	SE
2-Dec-06	114	109	107	114	121	121	126	127	130	125	127	129	129	146	165	167	166	171	176	184	200	236	306	311	145	SE
3-Dec-06	306	304	304	302	299	302	312	331	223	235	146	117	138	192	175	131	126	130	138	140	138	126	129	133	143	SE
4-Dec-06	171	196	171	184	225	256	256	247	173	165	N	86	129	M	86	45	70	46	69	27	257	245	197	161	185	S
5-Dec-06	177	194	174	141	178	356	293	289	304	307	330	29	32	31	27	35	41	49	38	32	34	55	76	100	24	NNE
6-Dec-06	115	115	109	119	118	117	123	128	143	154	153	132	135	129	133	136	138	156	173	176	177	175	174	175	141	SE
7-Dec-06	184	163	149	144	154	161	211	212	225	220	190	193	171	173	181	180	148	124	127	130	127	139	130	166	SSE	
8-Dec-06	144	174	188	210	241	272	252	238	225	217	232	238	249	243	246	250	253	239	248	246	250	269	270	173	235	SW
9-Dec-06	267	189	135	146	129	135	132	123	122	95	112	105	91	112	118	121	113	114	116	123	122	130	129	130	122	ESE
10-Dec-06	129	127	133	134	135	125	128	127	137	139	139	136	142	138	120	126	122	115	121	127	116	118	129	121	128	SE
11-Dec-06	124	124	127	127	130	126	127	128	123	127	112	133	134	125	107	106	115	110	110	115	125	121	127	128	123	ESE
12-Dec-06	125	113	61	255	216	205	214	152	218	226	262	271	281	282	281	284	278	261	231	211	214	208	195	206	244	WSW
13-Dec-06	188	140	117	108	105	110	113	117	113	131	126	114	122	128	124	171	167	101	142	112	133	113	132	179	125	SE
14-Dec-06	188	194	218	194	226	232	235	248	247	242	237	249	254	249	225	237	243	229	200	191	103	100	99	94	225	SW
15-Dec-06	91	63	10	28	36	43	21	24	29	20	27	26	23	18	352	340	338	335	337	328	330	337	341	3	15	NNE
16-Dec-06	304	274	266	275	281	267	268	275	266	263	270	240	210	193	194	181	99	105	112	104	101	105	97	96	253	WSW
17-Dec-06	105	102	104	101	106	102	109	104	122	N	N	N	N	N	131	106	103	104	104	114	182	172	153	160	-	-
18-Dec-06	171	169	168	165	225	189	195	190	186	190	205	206	200	186	175	169	171	182	175	183	189	184	179	180	185	S
19-Dec-06	193	196	212	248	255	265	264	261	264	266	265	266	267	267	269	270	276	271	254	242	249	217	201	165	253	WSW
20-Dec-06	171	167	186	179	171	148	116	131	124	125	131	163	174	180	171	173	181	168	151	127	124	125	123	124	149	SSE
21-Dec-06	126	131	125	129	129	134	138	140	168	174	213	226	230	252	247	247	247	236	238	238	244	246	243	246	210	SSW
22-Dec-06	252	254	254	256	257	253	253	256	254	252	256	261	265	268	271	264	242	251	245	216	224	220	219	183	252	WSW
23-Dec-06	137	112	118	122	118	112	120	125	125	124	195	176	179	154	163	197	245	265	287	288	288	275	259	248	181	S
24-Dec-06	224	198	241	238	237	226	219	220	196	146	195	183	183	138	131	131	125	122	127	132	130	118	124	131	153	SSE
25-Dec-06	131	128	138	146	203	191	200	210	212	203	188	182	181	196	212	218	201	215	214	215	218	236	236	186	195	SSW
26-Dec-06	170	206	227	233	229	227	236	233	225	233	234	238	231	197	185	159	172	156	192	198	192	134	179	168	214	SW
27-Dec-06	119	143	173	208	199	165	196	219	240	243	327	312	342	236	280	281	289	301	311	280	300	306	315	1	250	WSW
28-Dec-06	127	220	186	193	185	165	143	170	155	147	153	157	151	151	149	155	161	169	179	179	160	175	174	172	166	SSE
29-Dec-06	172	160	132	149	140	126	126	126	125	126	124	130	138	134	136	129	127	124	166	185	194	198	248	254	145	SE
30-Dec-06	260	252	244	244	255	249	244	250	250	247	251	253	253	257	263	266	257	252	256	250	218	231	232	226	250	WSW
31-Dec-06	212	214	215	197	168	159	174	172	184	194	203	197	191	191	192	196	200	192	192	177	163	178	197	199	191	S
Hourly Avg	174	172	176	187	198	185	191	194	192	194	202	201	199	198	194	187	184	176	179	177	178	171	171	172		

PASZA - Portable-Falher - Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

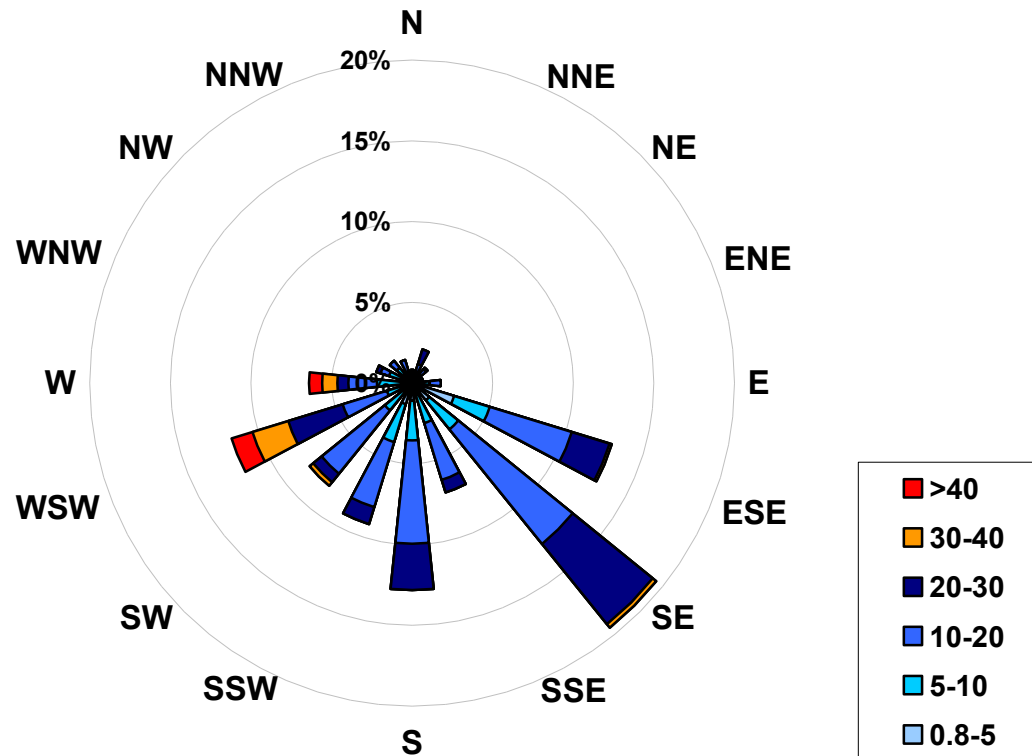
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	737 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%			
Percentile	99	95	75	50	25	5	1
	41.8	21.6	6.8	3.7	2.4	1.5	1.3

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

Day	Mountain Standard Time																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Dec-06	5	5	4	11	22	51	9	13	10	13	8	9	5	5	6	10	6	10	8	6	7	7	6	3	50.7
2-Dec-06	3	2	2	3	4	2	1	1	1	2	1	1	1	5	1	3	2	2	2	3	4	15	4	2	15.1
3-Dec-06	4	7	4	3	4	5	6	16	26	16	14	10	7	11	8	9	4	2	3	2	3	2	2	3	26.2
4-Dec-06	4	3	9	11	37	21	19	41	34	26	N	25	43	M	29	10	48	11	5	66	23	2	11	2	66.1
5-Dec-06	4	4	14	12	6	38	10	3	3	4	8	7	6	3	3	3	5	5	3	5	5	2	7	4	37.7
6-Dec-06	4	3	3	2	7	2	2	5	3	4	2	4	2	2	2	2	2	4	1	2	2	2	2	2	6.6
7-Dec-06	3	6	5	4	5	7	6	2	3	4	3	3	4	3	3	2	5	6	7	2	2	4	8	6	8.1
8-Dec-06	4	4	2	6	8	6	3	2	2	2	2	1	3	6	48	37	6	3	2	2	2	6	2	42	47.6
9-Dec-06	7	34	30	15	10	13	10	10	9	6	8	4	2	8	3	4	3	1	2	1	2	2	2	2	33.7
10-Dec-06	2	1	2	1	2	2	3	2	3	2	6	3	5	11	5	3	7	4	5	2	4	3	2	3	10.8
11-Dec-06	3	13	2	2	2	2	3	3	3	2	6	4	7	10	12	3	3	4	11	8	3	3	2	2	13.5
12-Dec-06	3	10	37	15	18	12	42	19	6	10	4	3	2	7	2	2	7	20	18	8	6	9	6	4	42.3
13-Dec-06	5	11	5	2	3	2	2	3	4	7	4	3	2	10	5	11	31	17	7	10	7	6	4	8	31.3
14-Dec-06	2	25	8	7	4	1	3	2	2	2	3	2	2	15	3	3	1	6	10	19	13	4	5	3	25.4
15-Dec-06	4	7	6	2	2	4	4	3	2	2	2	1	2	3	4	2	2	5	2	4	4	2	4	4	7.0
16-Dec-06	15	5	8	3	3	5	2	2	3	3	5	4	4	3	2	13	8	2	7	8	5	9	1	3	14.6
17-Dec-06	3	4	5	3	11	8	22	31	16	N	N	N	N	N	12	5	2	3	4	4	22	2	12	15	31.4
18-Dec-06	2	4	2	4	11	7	2	1	2	2	2	2	2	2	2	2	3	3	3	4	3	3	4	5	11.1
19-Dec-06	2	1	5	2	5	4	2	2	2	1	2	2	2	2	2	3	2	3	4	4	3	8	7	7	7.7
20-Dec-06	3	2	4	4	7	15	6	5	8	5	3	3	2	2	3	3	2	3	4	4	4	2	3	2	15.0
21-Dec-06	1	2	1	2	2	3	4	4	2	3	5	2	5	3	4	2	3	3	4	6	3	2	2	2	6.5
22-Dec-06	12	2	2	2	2	1	2	2	2	1	2	1	2	2	3	4	5	5	11	3	3	4	4	10	12.1
23-Dec-06	5	5	3	6	4	3	4	4	3	7	16	8	8	5	44	12	6	2	4	4	3	3	3	5	43.6
24-Dec-06	8	7	7	4	5	6	2	17	12	29	6	5	3	6	5	10	3	2	2	2	6	4	1	3	29.2
25-Dec-06	4	2	3	18	14	3	4	4	4	4	8	4	2	3	4	2	5	4	5	2	5	3	2	10	17.8
26-Dec-06	4	8	5	4	4	7	2	2	3	2	3	2	2	7	10	5	6	9	3	4	15	9	25	19	25.3
27-Dec-06	18	24	6	4	13	10	5	7	36	22	30	13	25	11	3	3	3	4	4	9	8	4	22	26	36.4
28-Dec-06	31	14	8	8	17	9	6	8	6	7	4	4	4	3	4	3	2	2	3	3	5	5	2	3	31.3
29-Dec-06	2	6	7	4	5	2	1	1	2	2	2	2	4	3	3	2	2	2	25	14	21	9	29	2	29.1
30-Dec-06	2	3	2	3	2	4	2	2	2	2	2	2	2	2	2	2	1	3	3	3	5	1	4	3	4.6
31-Dec-06	2	2	4	7	7	8	5	6	1	2	2	2	2	3	3	2	2	3	4	3	8	6	5	3	8.0
Hourly Max	31	34	37	18	37	51	42	41	36	29	30	25	43	15	48	37	48	20	25	66	23	15	29	42	

1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for December 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	91
5	to	10	139
10	to	20	316
20	to	30	146
30	to	40	29
	>	40	16
Total Non-Zero Values			737

PASZA – Valleyview Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Valleyview - Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

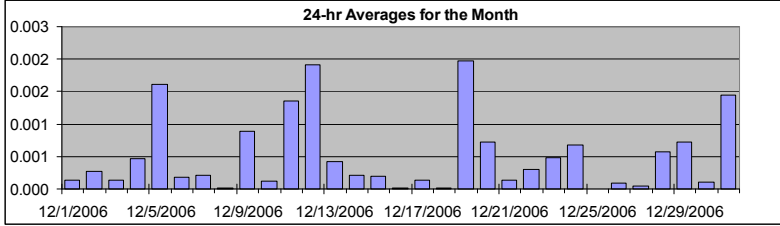
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Objective Limit: Alberta Environment: 1-hr 0.172 ppm 24-hr 0.057 ppm

Number of 1-hr Exceedances:		0	
Number of 24-hr Exceedances:		0	
Maximum 1-hr Average:	0.02	ppm	5-Dec 7:00 8:00
Maximum 24-hr Average:	0.00	ppm	19-Dec



AIC Time:	31 hrs	Operational Time:	709 hrs		
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%		
Percentile	99	95	75	50	25
	0.00	0.00	0.00	0.00	0.00
	5	1	Average		Median
	0.00	ppm	0.00		0.00

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001
2-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001
3-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001
4-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.002
5-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.018
6-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
7-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.000	0.002	
8-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
9-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
10-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
11-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
12-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.013	
13-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
14-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
15-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
16-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
17-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
18-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
19-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.012	
20-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.004	
21-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
22-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.004	
23-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.003	
24-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.001	
25-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
26-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
27-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
28-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.001	
29-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.004	
30-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
31-Dec-06	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.004	
Hourly Avg	N	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hourly Max		0.000	0.001	0.001	0.001	0.004	0.002	0.013	0.018	0.012	0.013	0.012	0.007	0.004	0.002	0.003	0.002	0.004	0.003	0.004	0.001	0.002	0.001	0.004	0.002			

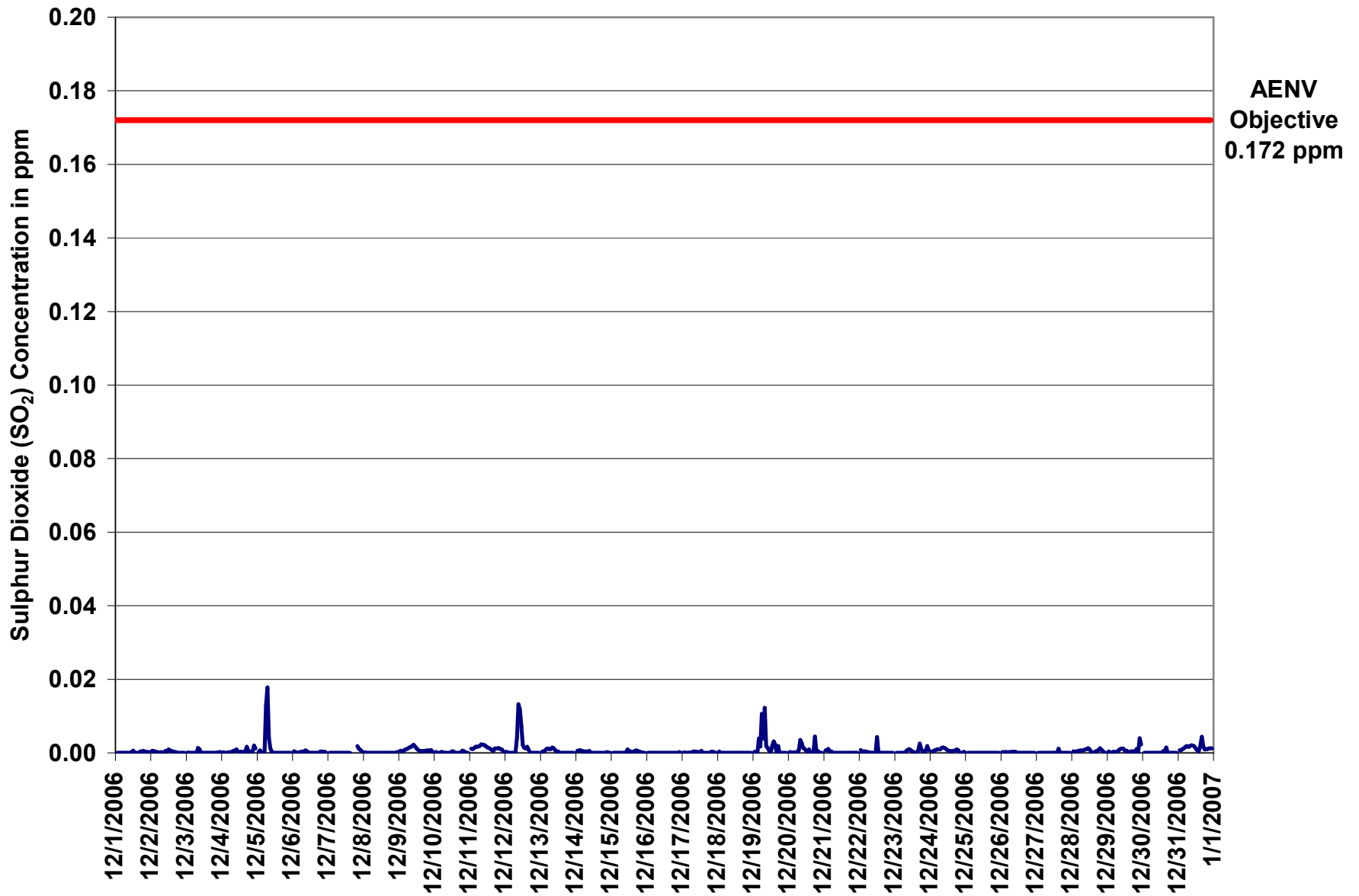


Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
Station Owner: PASZA

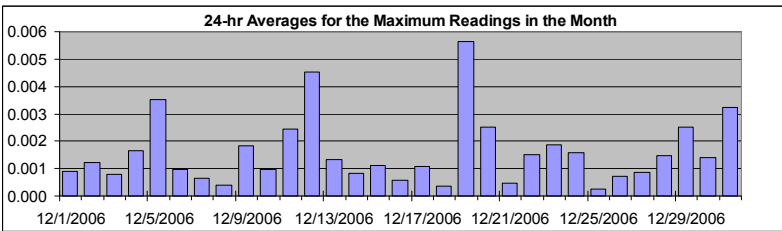
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	0.03	ppm	5-Dec	7:00 8:00
Maximum 24-hr Value:	0.01	ppm	19-Dec	



AIC Time:	32 hrs	Operational Time:	704 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00 ppm	0.00 ppm

Status Flag Characters

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

Day	Mountain Standard Time	Hour Start	Hour End	1:00	2:00	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-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
2-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.004	
3-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.004	
4-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.005	
5-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.004	0.028	
6-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
7-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.001	0.003		
8-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.002	
9-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.003	
10-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
11-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.004	
12-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.005	0.026	
13-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
14-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
15-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
16-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.001	
17-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
18-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.002	
19-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.006	0.027	
20-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.003	0.010	
21-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.003	
22-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.016	
23-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.010	
24-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.002	
25-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.001	
26-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
27-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.006	
28-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.002	
29-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.003	0.016	
30-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.009	
31-Dec-06	A	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.003	0.015	
Hourly Avg	N	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.001		
Hourly Max	0.000	0.003	0.002	0.003	0.014	0.009	0.023	0.028	0.027	0.024	0.026	0.013	0.016	0.009	0.009	0.015	0.009	0.010	0.010	0.003	0.003	0.002	0.016	0.011					

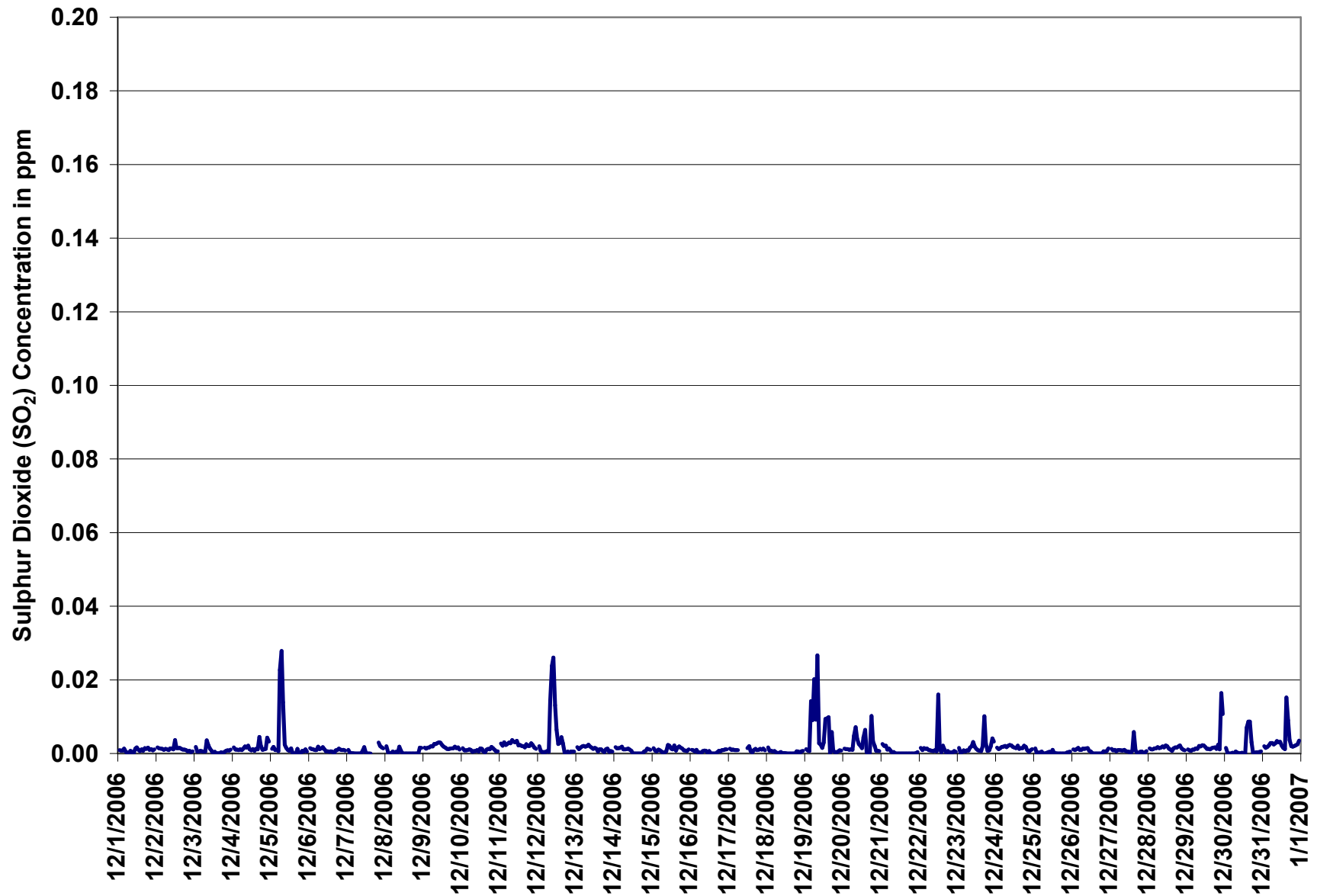
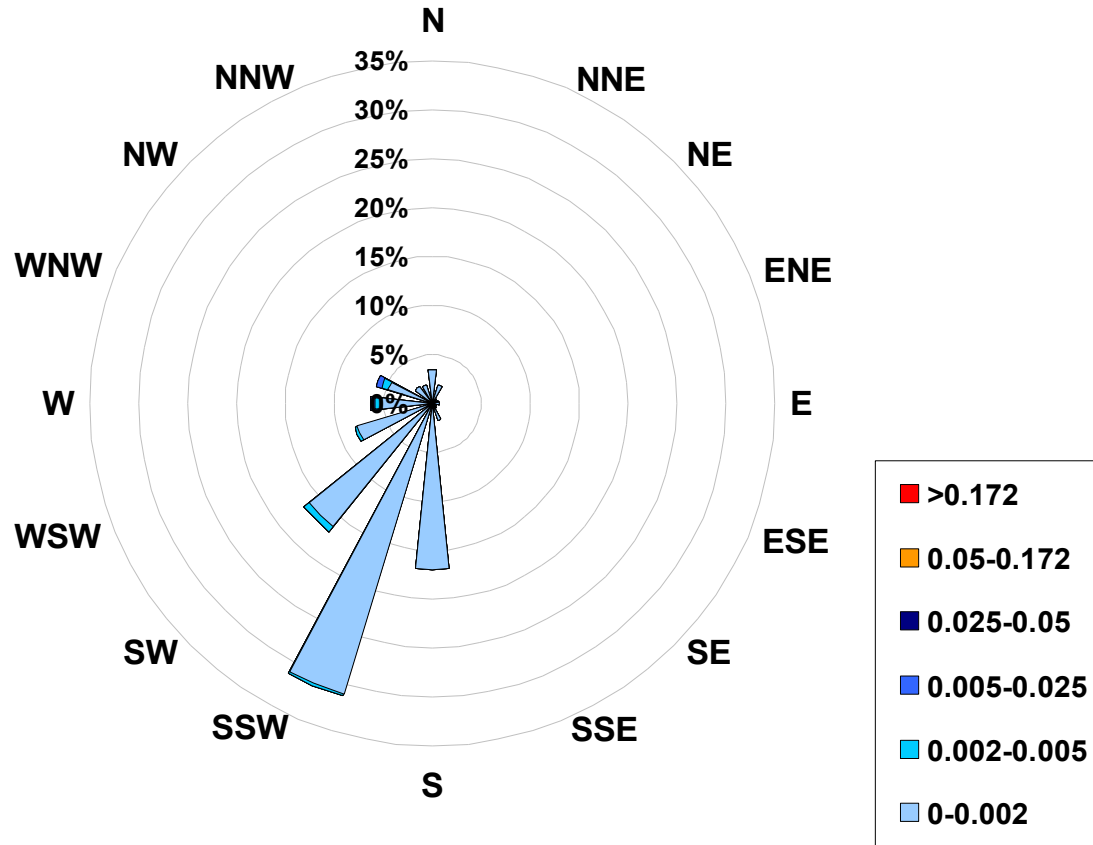


Figure 55. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for December 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppm			
Range			Frequency (hrs)
0.0	<	0.002	681
0.002	to	0.005	21
0.005	to	0.025	7
0.025	to	0.05	0
0.05	to	0.172	0
	>	0.172	0
Total Non-Zero Values			709

PASZA - Valleyview - Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

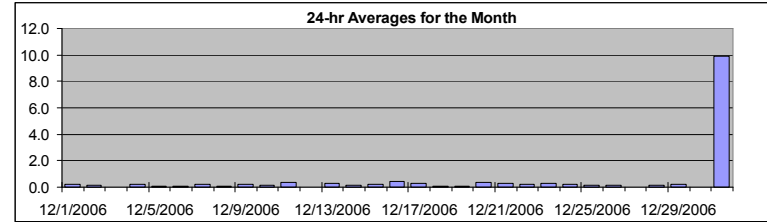
Hydrogen Sulphide (H₂S)

Monitoring Dates: December 1, 2006 to January 1, 2007

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

Summary

Number of 1-hr Exceedances:	4
Number of 24-hr Exceedances:	1
Maximum 1-hr Average:	86.2 ppb 31-Dec 5:00 6:00
Maximum 24-hr Value:	9.9 ppb 31-Dec



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.5	0.3	0.1	0.0	0.0	0.0	0.5 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-Dec-06	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
2-Dec-06	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
3-Dec-06	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
4-Dec-06	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
5-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Dec-06	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
7-Dec-06	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	C	C	C	C	0	0	0	0	0	0	0.3	0.6
8-Dec-06	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
9-Dec-06	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.7
10-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.2	0.7
11-Dec-06	A	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
12-Dec-06	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
13-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0.3	0.7
14-Dec-06	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
15-Dec-06	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
16-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0.4	0.8
17-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0.3	0.7
18-Dec-06	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
19-Dec-06	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
20-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0.3	0.9
21-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
22-Dec-06	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
23-Dec-06	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	0.3	0.8
24-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
25-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-Dec-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
27-Dec-06	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
28-Dec-06	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
29-Dec-06	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	0.3	0.6
30-Dec-06	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
31-Dec-06	A	0	0	0	0	86	53	24	58	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9.9	86.2
Hourly Avg	N	0.2	0.2	0.1	0.1	2.9	1.9	0.9	2.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max	0.0	0.7	0.9	0.7	0.5	86.2	53.4	24.3	57.6	1.2	3.1	1.4	0.5	0.5	0.5	0.7	0.7	0.7	0.9	0.7	0.8	0.7	0.8	0.6			

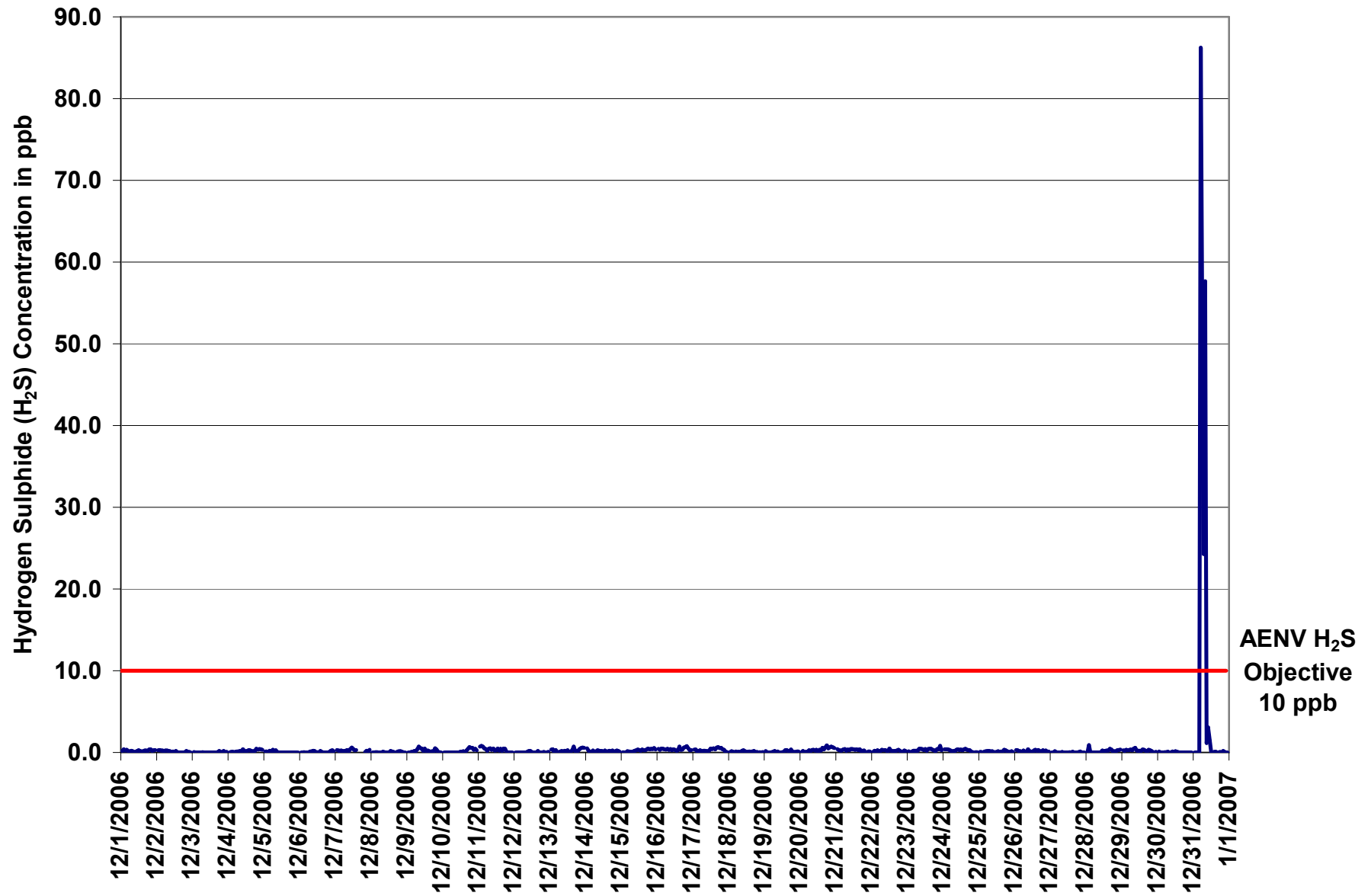


Figure 56. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

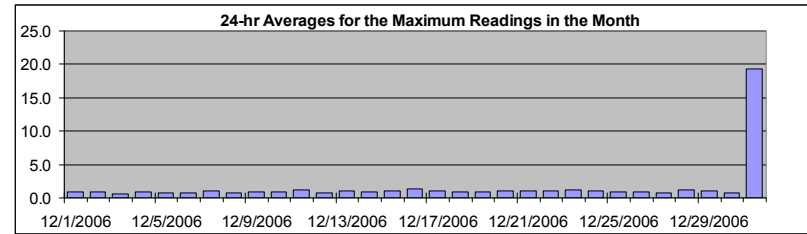
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Value:	99.9	ppb	31-Dec	8:00 9:00
Maximum 24-hr Value:	19.3	ppb	31-Dec	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.0	1.5	1.1	0.9	0.7	0.5	0.4	1.5 ppb	0.9 ppb

Status Flag Characters

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

Day	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	24:00	24-hour Average	Daily Maximum
1-Dec-06	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	
2-Dec-06	A	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0.8	1.5	
3-Dec-06	A	1	0	1	1	0	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	0.7	0.9	
4-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	0.9	1.6
5-Dec-06	A	1	1	1	1	1	1	1	1	1	3	1	0	0	1	1	0	1	1	1	1	0	0	0	0	0	0.7	3.5	
6-Dec-06	A	1	0	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	1.0	
7-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	C	C	C	C	C	1	1	1	1	1.0	2.0	
8-Dec-06	A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
9-Dec-06	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.0	1.7	
10-Dec-06	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	0.9	2.1	
11-Dec-06	A	2	2	2	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.7	
12-Dec-06	A	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.7	1.3	
13-Dec-06	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.0	1.7	
14-Dec-06	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	1.4	
15-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5	
16-Dec-06	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	6	1	1	1	1	2	2	1	1	1	1.4	5.6	
17-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6	
18-Dec-06	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	
19-Dec-06	A	1	1	0	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	
20-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1.1	2.1	
21-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1.1	1.5	
22-Dec-06	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	1.0	1.4	
23-Dec-06	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.1	2.0	
24-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.1	2.3	
25-Dec-06	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	
26-Dec-06	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	1.3	
27-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0.7	1.5	
28-Dec-06	A	1	6	1	1	0	0	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	6.0	
29-Dec-06	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.1	
30-Dec-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0.8	1.4	
31-Dec-06	A	1	1	1	0	100	100	86	100	21	16	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19.3	99.9	
Hourly Avg	N	0.9	1.0	0.8	0.8	4.1	4.1	3.7	4.2	1.6	1.4	1.2	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9			
Hourly Max	0.0	1.7	6.0	1.6	1.2	99.9	99.9	86.4	99.9	21.3	15.6	9.9	1.6	1.3	2.3	5.6	1.5	2.1	1.9	1.8	1.6	2.1	2.0	1.4					

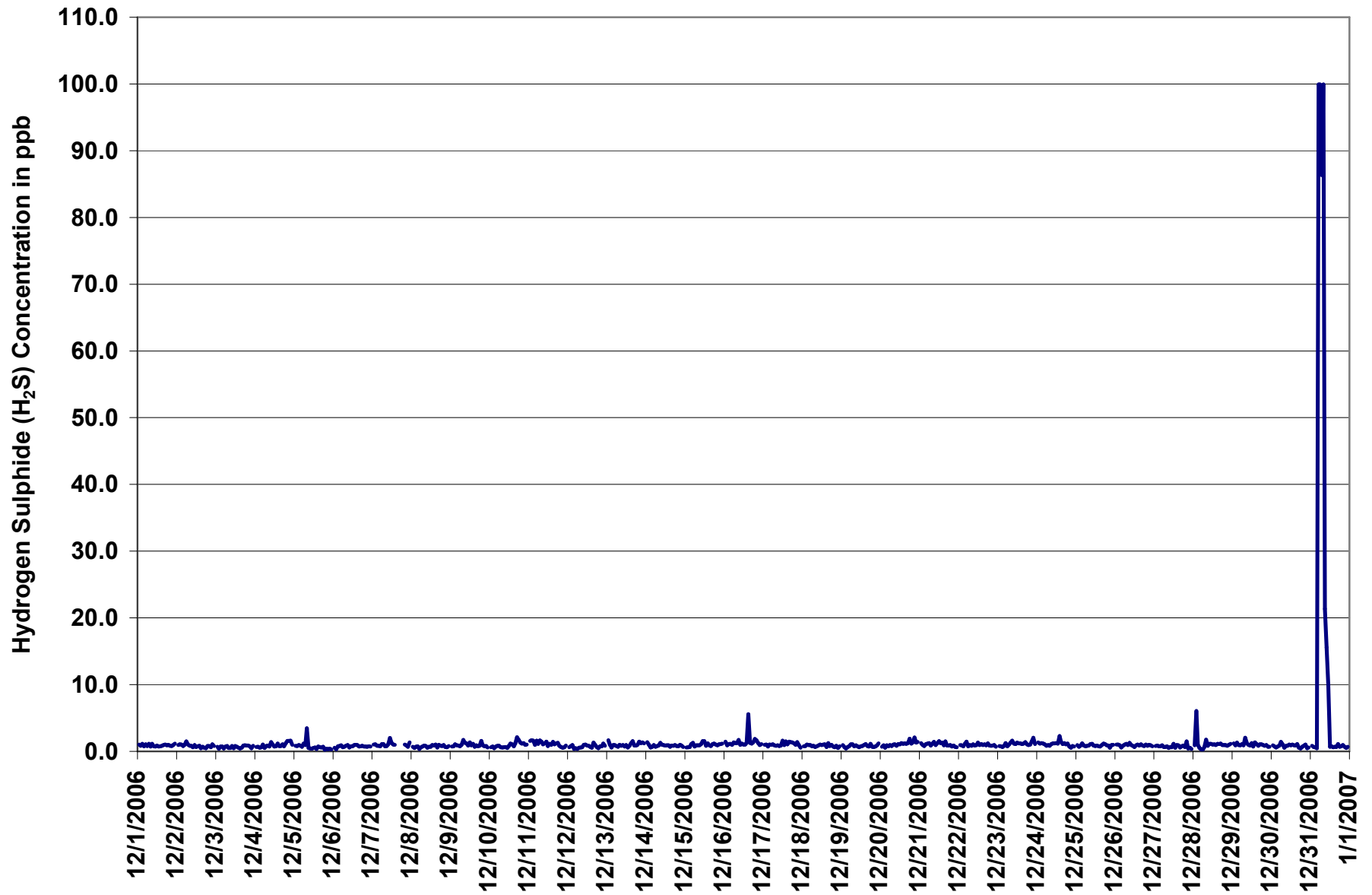
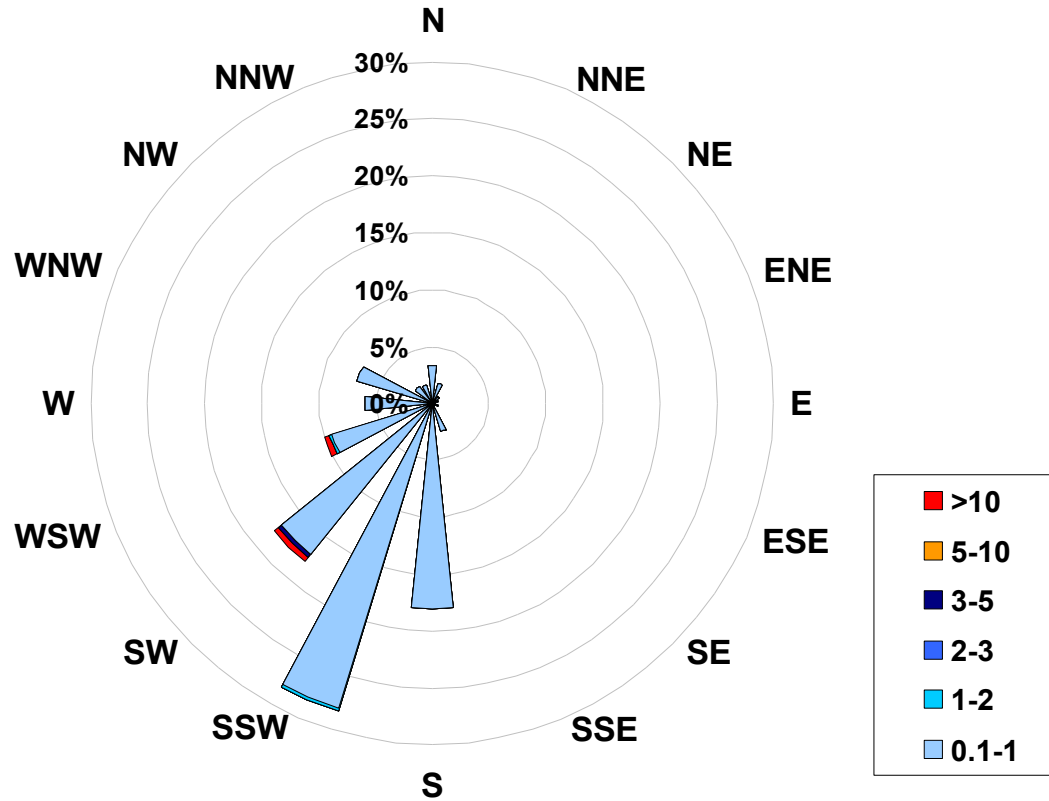


Figure 57. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for December 2006



Calms: 0%

Frequency Distribution of H ₂ S in ppb			
Range			Frequency (hrs)
0.1	<	1	701
1	to	2	2
2	to	3	0
3	to	5	1
5	to	10	0
	>	10	4
Total Non-Zero Values			708

PASZA - Valleyview - Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

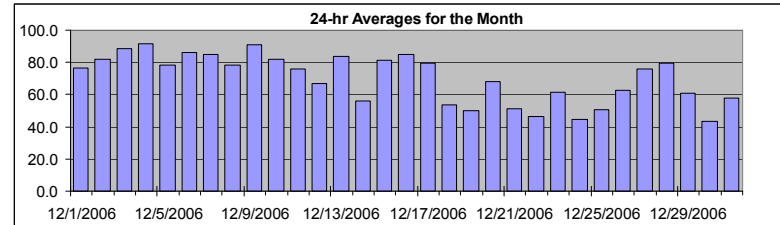
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	96.6 %	9-Dec	4:00 5:00
Maximum 24-hr Value:	91.7 %	4-Dec	



AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	94.5	92.2	85.5
	73.9	55.3	25
	5	1	39.8
	35.3	Average	70.1 %
	Median	73.9 %	

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																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Dec-06	78	79	79	80	80	81	81	81	80	77	75	69	66	64	61	61	70	81	86	84	81	80	78	80	76.3	86.0
2-Dec-06	81	80	80	80	79	79	78	79	79	78	78	79	79	77	74	77	86	88	90	91	90	89	88	88	81.9	90.9
3-Dec-06	87	89	90	92	92	91	91	91	90	90	87	83	82	80	82	85	89	91	92	92	90	89	88	88	88.4	92.2
4-Dec-06	88	89	92	94	94	94	93	92	92	91	89	89	89	88	90	92	92	92	92	93	93	94	94	95	91.7	95.0
5-Dec-06	96	93	89	85	77	73	70	69	67	67	66	65	63	66	65	68	70	86	86	88	89	91	93	96	78.2	96.2
6-Dec-06	95	94	93	90	94	92	90	89	90	91	90	84	80	78	78	79	80	81	82	82	83	83	83	83	86.1	95.3
7-Dec-06	84	84	86	87	88	89	88	88	89	89	89	84	72	67	72	80	84	89	89	88	90	89	88	82	84.9	89.8
8-Dec-06	80	80	81	81	77	79	79	80	81	75	78	77	76	70	67	67	67	71	76	86	90	86	87	87	78.2	89.5
9-Dec-06	86	92	95	96	97	96	94	91	90	89	88	89	90	91	91	92	92	92	93	93	92	86	82	84	90.8	96.6
10-Dec-06	83	82	83	84	83	84	84	84	85	83	80	79	75	71	72	75	78	83	85	85	85	82	86	89	81.6	89.3
11-Dec-06	90	93	93	93	93	92	91	90	89	88	85	79	68	63	60	63	69	67	64	61	60	59	57	49	75.7	93.3
12-Dec-06	49	51	49	51	55	57	58	55	50	51	60	70	70	75	73	70	71	77	85	81	87	82	84	90	66.7	89.7
13-Dec-06	92	94	92	93	91	85	79	77	76	88	89	90	86	75	72	72	73	75	78	81	85	87	91	91	83.9	93.5
14-Dec-06	90	87	75	73	62	55	52	52	51	48	47	44	42	40	38	40	44	47	50	51	59	63	66	64	55.9	90.2
15-Dec-06	63	50	47	47	67	84	89	92	91	90	88	87	87	86	88	88	88	88	87	88	87	86	87	90	81.1	92.3
16-Dec-06	90	88	87	88	90	90	90	91	90	90	88	85	76	67	67	68	81	90	91	88	88	87	85	85	85.0	91.5
17-Dec-06	84	83	83	83	80	80	79	79	79	78	77	78	76	71	72	75	80	84	84	84	84	82	79	77	79.5	84.1
18-Dec-06	76	75	76	68	61	58	57	55	52	51	52	53	53	50	48	44	42	43	44	44	44	44	46	45	53.4	76.1
19-Dec-06	44	46	46	50	52	71	63	55	56	54	48	43	39	38	37	39	41	41	49	54	59	59	59	60	50.2	71.1
20-Dec-06	58	59	59	59	67	72	75	72	74	74	69	67	63	57	53	57	62	67	74	77	78	79	81	78	68.0	80.9
21-Dec-06	69	61	55	51	52	55	56	57	58	53	53	45	40	32	35	41	46	53	54	57	54	52	50	44	51.0	68.7
22-Dec-06	38	35	36	38	40	43	47	49	49	50	50	51	45	39	38	40	45	47	52	54	56	58	61	58	46.6	60.6
23-Dec-06	54	53	56	60	60	59	62	66	73	75	69	66	61	63	62	59	58	56	55	54	64	66	69	58	61.6	74.7
24-Dec-06	60	59	52	49	48	40	42	49	55	61	54	47	42	43	37	37	36	35	41	59	35	28	30	32	44.6	61.0
25-Dec-06	34	37	39	41	45	50	52	57	62	68	69	63	55	51	45	37	39	44	48	53	57	56	54	55	50.4	69.3
26-Dec-06	59	60	63	70	74	74	75	77	78	76	71	63	54	46	39	39	42	47	52	60	64	68	74	78	62.6	78.4
27-Dec-06	78	80	82	82	79	78	79	78	77	75	73	69	64	61	61	62	66	69	84	84	78	82	88	91	75.9	90.8
28-Dec-06	93	92	90	85	75	71	82	86	87	87	86	83	79	72	70	74	79	83	78	73	72	72	72	72	79.7	93.3
29-Dec-06	70	72	74	76	78	81	82	80	75	66	59	56	53	47	43	44	44	44	49	54	55	57	46	48	60.6	81.8
30-Dec-06	49	55	57	51	43	40	40	37	37	38	36	36	36	37	38	40	42	43	45	50	49	50	50	48	43.7	57.1
31-Dec-06	49	56	58	60	63	65	66	69	73	70	67	55	48	46	46	48	48	53	58	61	57	56	61	57.9	72.8	
Hourly Avg	72.5	72.5	72.1	72.2	72.1	72.8	73.0	73.2	73.4	72.9	71.3	68.7	64.8	61.6	60.5	61.7	64.7	68.0	70.7	72.7	72.7	72.4	72.7	72.4		
Hourly Max	95.7	94.0	94.7	96.1	96.6	95.6	94.2	92.3	92.1	91.4	90.4	90.4	89.9	90.7	91.1	92.2	92.3	92.0	92.6	93.0	93.5	93.6	94.2	96.2		

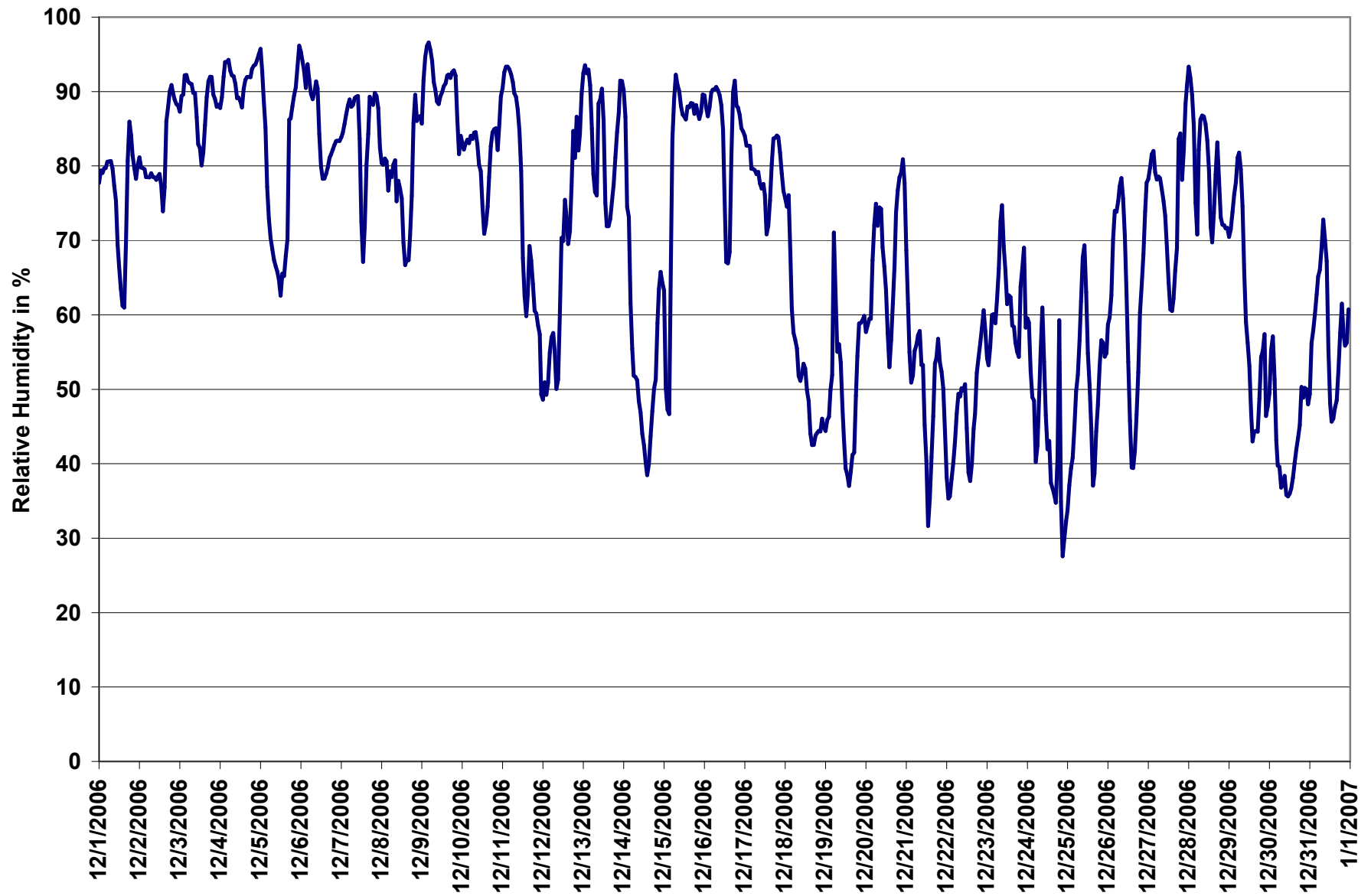


Figure 58. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview - Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

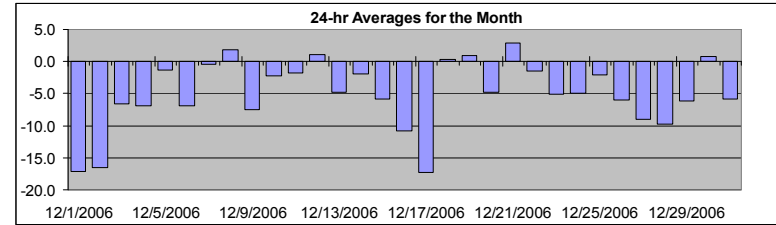
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	8.8 °C	21-Dec	13:00 14:00
Maximum 24-hr Value:	3.0 °C	21-Dec	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	3.5	-0.1	-4.6	-8.4	-17.5	-24.2	-5.0 °C	-4.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Dec-06	-18	-18	-18	-19	-19	-18	-18	-18	-17	-17	-15	-13	-13	-12	-11	-11	-13	-15	-18	-19	-21	-22	-24	-25	-17.2	-10.9	
2-Dec-06	-24	-24	-25	-25	-25	-24	-25	-24	-24	-23	-21	-19	-17	-13	-11	-10	-10	-9	-9	-8	-8	-8	-8	-7	-16.6	-7.4	
3-Dec-06	-6	-5	-5	-6	-7	-7	-7	-7	-7	-8	-8	-8	-8	-7	-7	-7	-7	-7	-7	-6	-6	-5	-5	-5	-6.6	-4.5	
4-Dec-06	-4	-5	-6	-7	-7	-8	-9	-9	-10	-10	-10	-9	-8	-7	-7	-7	-6	-6	-6	-6	-5	-5	-4	-4	-7.0	-4.1	
5-Dec-06	-2	0	0	0	1	1	1	1	1	1	1	1	2	1	1	0	0	-3	-4	-5	-6	-6	-7	-8	-1.3	1.6	
6-Dec-06	-9	-9	-10	-11	-11	-12	-13	-13	-12	-9	-6	-4	-4	-3	-3	-3	-3	-4	-4	-4	-4	-5	-5	-4	-6.8	-2.9	
7-Dec-06	-4	-4	-4	-4	-3	-2	-1	-1	-1	-1	-1	0	2	4	4	2	2	1	1	1	0	0	0	1	-0.4	4.1	
8-Dec-06	1	1	1	1	2	2	2	1	1	2	2	2	3	4	5	5	4	4	3	1	0	-1	-1	-2	1.8	5.0	
9-Dec-06	-2	-4	-5	-6	-7	-8	-11	-12	-13	-13	-13	-11	-10	-9	-8	-8	-8	-7	-7	-4	-4	-2	-1	-2	-7.6	-1.0	
10-Dec-06	-2	-2	-2	-3	-3	-3	-2	-3	-3	-3	-2	-3	-2	0	0	-1	-1	-2	-3	-3	-3	-2	-3	-4	-2.3	-0.3	
11-Dec-06	-5	-6	-7	-8	-8	-9	-8	-7	-7	-6	-4	-2	0	2	3	2	1	1	2	3	3	4	4	6	-1.8	5.9	
12-Dec-06	6	5	4	4	3	2	2	3	5	4	3	2	2	2	2	2	1	0	-2	-2	-3	-4	-5	-7	1.1	5.5	
13-Dec-06	-8	-9	-10	-11	-11	-10	-7	-7	-6	-5	-4	-3	-2	0	-1	-1	-1	-1	-1	-2	-3	-3	-5	-6	-4.8	-0.4	
14-Dec-06	-6	-6	-4	-4	-3	-3	-2	-2	-1	0	1	2	3	3	3	2	0	-1	-2	-3	-5	-6	-7	-6	-2.0	3.0	
15-Dec-06	-6	-2	-1	0	-1	-2	-3	-4	-6	-7	-7	-7	-7	-6	-7	-7	-8	-8	-8	-8	-8	-9	-9	-9	-5.8	0.0	
16-Dec-06	-9	-9	-9	-9	-9	-10	-10	-10	-11	-11	-10	-9	-8	-6	-6	-6	-6	-9	-12	-14	-16	-15	-16	-17	-18	-10.8	-5.7
17-Dec-06	-18	-19	-19	-20	-22	-23	-24	-24	-24	-25	-22	-19	-16	-13	-13	-12	-13	-14	-14	-13	-13	-13	-12	-12	-17.3	-11.7	
18-Dec-06	-11	-10	-9	-6	-4	-2	-1	-1	0	1	1	2	2	4	4	5	5	4	4	4	4	4	4	4	0.4	4.8	
19-Dec-06	4	3	3	2	3	2	2	2	1	0	0	1	2	3	4	4	3	3	0	-2	-4	-4	-4	-4	1.0	3.8	
20-Dec-06	-4	-5	-5	-5	-7	-8	-8	-8	-9	-9	-7	-5	-3	-1	1	1	-1	-2	-5	-5	-5	-5	-5	-4	-4.7	1.3	
21-Dec-06	-2	0	2	3	3	2	2	1	1	3	3	5	6	9	8	7	5	3	3	3	2	1	1	0	3.0	8.8	
22-Dec-06	0	0	0	0	0	0	-1	-2	-2	-1	0	1	1	1	0	-1	-2	-4	-4	-5	-5	-6	-5	-5	-1.5	0.8	
23-Dec-06	-5	-5	-6	-7	-7	-7	-7	-8	-10	-11	-10	-10	-8	-7	-6	-5	-4	-2	0	0	0	-1	-1	-2	-2	-5.1	0.2
24-Dec-06	-4	-4	-5	-5	-6	-5	-5	-7	-9	-11	-10	-8	-6	-7	-5	-5	-5	-4	-3	-1	0	0	0	0	-4.9	0.3	
25-Dec-06	0	0	-1	-2	-3	-3	-3	-4	-5	-6	-6	-3	-1	1	2	3	2	0	-1	-3	-4	-4	-4	-4	-2.1	3.1	
26-Dec-06	-5	-5	-6	-8	-9	-9	-9	-10	-9	-8	-6	-4	-2	0	1	1	-1	-2	-5	-7	-8	-10	-11	-12	-6.0	1.2	
27-Dec-06	-12	-13	-13	-13	-12	-12	-12	-12	-12	-11	-11	-11	-10	-8	-6	-5	-5	-5	-6	-5	-5	-6	-7	-8	-9.0	-4.9	
28-Dec-06	-10	-10	-10	-9	-8	-8	-10	-13	-13	-14	-14	-13	-11	-9	-9	-8	-9	-10	-8	-7	-7	-8	-8	-8	-9.8	-7.4	
29-Dec-06	-8	-8	-9	-10	-11	-12	-12	-12	-11	-9	-7	-6	-5	-4	-2	-2	-2	-2	-3	-4	-4	-5	-1	0	-6.2	0.5	
30-Dec-06	1	1	0	0	0	0	0	1	1	0	2	2	3	4	4	3	2	1	1	0	0	-2	-2	-2	0.9	3.7	
31-Dec-06	-3	-5	-6	-7	-8	-8	-9	-10	-11	-11	-11	-10	-7	-4	-3	-3	-2	-3	-5	-6	-5	-5	-4	-4	-5.9	-2.3	
Hourly Avg	-5.6	-5.8	-6.0	-6.3	-6.4	-6.6	-6.7	-7.0	-7.2	-6.9	-6.2	-5.0	-3.6	-2.5	-2.0	-2.1	-2.7	-3.4	-4.0	-4.4	-4.7	-4.9	-5.0	-5.2			
Hourly Max	5.5	4.5	4.4	3.8	3.2	2.4	2.0	2.6	4.6	4.1	3.2	5.3	6.4	8.8	8.0	6.6	5.1	4.4	4.2	4.2	4.2	4.2	4.5	5.9			

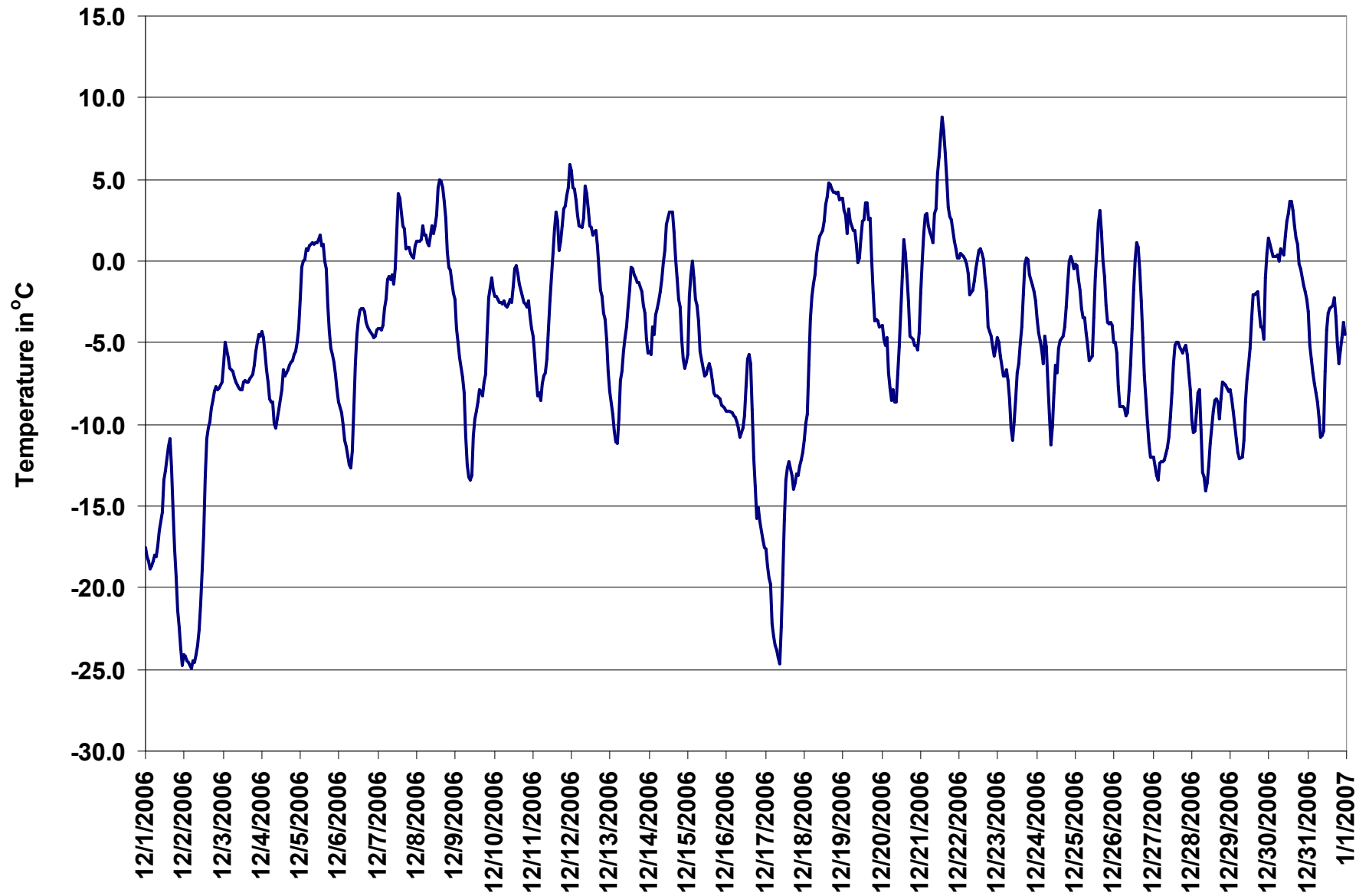


Figure 59. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview - Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

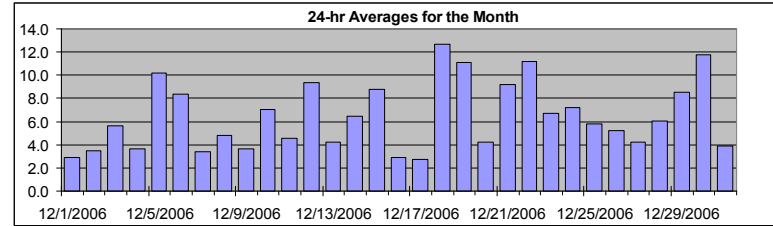
Wind Speed (WSs)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:	26.9	km/hr	19-Dec	5:00 6:00
Maximum 24-hr Value:	12.7	km/hr	18-Dec	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	20.2	15.8	8.3	5.0	3.2	1.7	1.1	6.5 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Dec-06	5	4	3	3	3	3	2	2	3	2	3	5	9	6	2	2	2	2	2	1	1	1	3	2.9	8.8	
2-Dec-06	3	2	3	2	2	2	3	3	1	2	2	2	2	5	5	6	8	6	7	4	3	4	5	4	3.5	8.4
3-Dec-06	3	13	12	4	4	3	4	6	7	4	4	4	4	2	2	4	3	4	4	6	10	8	10	8	5.6	12.5
4-Dec-06	8	6	5	6	5	5	7	4	3	2	2	4	2	2	4	3	2	1	1	3	4	2	3	5	3.7	7.8
5-Dec-06	4	10	5	4	12	14	16	16	20	20	18	17	13	11	10	7	8	10	8	6	5	4	3	10.2	20.3	
6-Dec-06	2	1	2	2	2	1	1	2	1	2	8	15	16	16	16	15	15	15	16	15	13	11	9	6	8.3	16.0
7-Dec-06	5	4	4	6	5	5	4	4	5	3	2	2	1	2	1	2	3	3	4	3	3	4	3	5	3.4	6.5
8-Dec-06	6	6	7	7	7	6	5	4	5	6	6	5	6	3	3	3	4	4	3	4	4	5	4	5	4.8	7.3
9-Dec-06	5	4	5	4	4	3	3	2	2	1	2	1	1	2	2	4	4	3	2	2	6	11	11	7	3.6	10.7
10-Dec-06	10	11	12	12	12	9	10	10	9	10	13	11	8	6	3	3	2	1	2	2	3	4	3	1	7.1	12.7
11-Dec-06	2	2	3	2	3	3	5	3	3	4	2	5	6	3	3	2	3	4	4	9	10	11	6	12	4.5	12.1
12-Dec-06	11	9	8	8	5	5	5	4	11	14	12	18	22	22	18	13	9	6	5	4	6	6	3	2	9.4	21.7
13-Dec-06	2	2	1	3	4	3	3	5	4	6	5	8	6	7	6	4	3	4	4	1	3	4	3	7	4.2	8.0
14-Dec-06	6	5	6	5	6	6	5	6	5	4	6	13	15	16	11	5	3	5	5	3	4	5	3	4	6.4	15.8
15-Dec-06	5	7	8	11	11	6	7	9	11	11	13	14	11	13	13	13	11	8	7	4	5	4	3	2	8.8	13.6
16-Dec-06	4	4	5	2	2	2	3	2	3	3	4	4	3	3	3	3	1	1	2	3	4	3	2	2	2.9	5.3
17-Dec-06	2	2	2	2	1	1	2	1	2	2	3	3	3	3	2	2	3	2	4	3	4	4	6	5	2.7	5.6
18-Dec-06	6	2	6	8	11	12	13	14	15	15	13	13	13	13	15	16	19	18	16	16	16	13	10	11	12.7	19.4
19-Dec-06	9	9	11	6	12	27	26	22	14	6	7	15	16	15	18	10	3	5	6	4	5	7	8	5	11.1	26.9
20-Dec-06	6	5	8	4	3	4	3	4	4	4	6	6	6	6	6	5	2	2	1	2	2	3	3	4	4.2	8.0
21-Dec-06	4	8	9	16	16	11	15	10	9	9	6	7	7	7	15	13	6	4	9	8	8	9	9	8	9.2	16.3
22-Dec-06	11	13	13	16	14	13	9	5	7	8	16	20	18	20	20	15	7	4	8	6	6	7	6	7	11.2	20.1
23-Dec-06	6	4	2	3	4	5	4	2	2	3	4	4	3	2	3	4	8	13	15	19	19	15	11	8	6.7	18.7
24-Dec-06	4	5	5	7	7	7	5	6	7	6	6	3	1	2	4	2	4	2	16	12	11	18	18	15	7.2	18.0
25-Dec-06	14	8	7	8	4	6	4	2	6	4	4	5	4	5	4	4	4	6	6	7	6	7	7	7	5.8	13.7
26-Dec-06	6	7	7	7	6	7	6	7	7	5	7	8	5	4	3	4	5	3	3	3	3	3	5	4	5.3	8.0
27-Dec-06	4	3	3	3	5	3	2	3	3	2	4	5	3	3	6	7	4	8	9	7	7	3	2	3	4.2	8.9
28-Dec-06	3	4	5	4	5	5	4	5	6	5	4	3	6	7	7	6	6	4	12	11	11	12	5	7	6.1	11.7
29-Dec-06	10	9	7	5	4	2	2	3	5	9	9	11	13	12	13	14	13	11	14	10	6	6	11	8	8.5	14.5
30-Dec-06	16	10	7	8	9	10	10	15	10	7	8	15	18	20	24	21	16	16	13	7	7	7	5	5	11.8	23.9
31-Dec-06	5	3	3	5	4	3	2	2	3	3	4	3	4	4	5	5	6	3	2	5	6	5	5	4	3.9	6.2
1-hr Average	6.1	5.8	5.9	6.0	6.1	6.2	6.1	5.9	6.2	5.9	6.4	8.0	7.9	7.7	8.0	7.0	6.0	5.8	6.8	6.2	6.5	6.7	5.9	5.7		
Hourly Max	16.0	13.4	13.2	16.3	15.7	26.9	25.9	21.8	20.3	20.0	17.6	20.1	21.6	21.7	23.9	20.6	19.4	18.3	16.5	18.7	18.7	18.0	17.7	14.9		

PASZA – Valleyview - Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

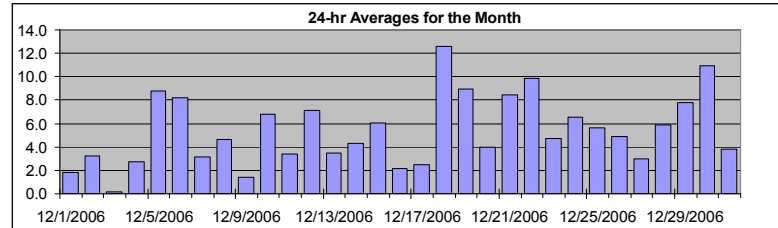
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Maximum 1-hr Average:					26.3	km/hr	19-Dec	5:00 6:00
Maximum 24-hr Value:					12.6	km/hr	18-Dec	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	20.1	15.7	8.3	4.8	2.8	1.0	0.4	11.8 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 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-Dec-06	5	3	3	2	3	3	2	2	3	2	3	5	9	5	2	1	1	2	2	1	1	1	0	2	1.8	8.7
2-Dec-06	3	2	2	2	2	2	3	3	1	2	2	2	1	4	5	6	8	6	7	3	3	4	5	4	3.2	8.3
3-Dec-06	2	12	11	4	4	3	4	6	6	4	3	4	4	2	2	4	3	4	4	6	10	7	10	8	0.2	12.4
4-Dec-06	8	6	5	6	5	5	6	4	2	2	1	4	2	1	4	3	2	0	1	3	3	2	3	5	2.8	7.7
5-Dec-06	4	9	5	4	11	14	15	16	20	20	17	16	13	11	10	7	7	10	8	6	6	5	3	3	8.8	20.2
6-Dec-06	2	1	1	2	2	1	0	1	1	2	8	15	16	16	16	15	15	15	16	15	13	11	9	6	8.2	15.9
7-Dec-06	5	4	4	6	5	4	4	3	5	2	1	2	0	1	0	1	3	3	4	3	2	4	2	5	3.2	6.5
8-Dec-06	6	6	7	7	7	6	4	3	4	5	5	5	6	3	3	3	4	4	3	3	4	5	4	4	4.6	7.2
9-Dec-06	4	3	4	4	4	3	2	2	1	1	1	0	1	1	2	4	4	2	2	1	6	11	11	7	1.4	10.7
10-Dec-06	10	11	12	12	12	9	10	10	9	10	13	11	8	6	3	3	1	1	1	1	2	4	3	0	6.8	12.7
11-Dec-06	1	1	1	1	2	2	5	2	2	4	2	5	6	3	1	1	3	4	1	9	10	11	6	12	3.4	12.0
12-Dec-06	11	9	8	8	4	5	5	4	11	14	12	18	21	22	18	13	9	6	5	4	6	5	3	2	7.1	21.6
13-Dec-06	2	2	1	3	2	2	3	3	4	2	5	7	6	7	6	4	3	3	2	1	3	4	3	7	3.5	7.4
14-Dec-06	6	5	6	5	6	6	5	6	5	4	5	13	15	16	11	5	2	0	4	0	4	5	3	4	4.3	15.8
15-Dec-06	4	7	8	11	11	6	7	9	11	11	13	14	11	13	13	13	11	8	7	4	5	4	3	2	6.0	13.5
16-Dec-06	3	4	5	2	2	2	3	2	3	3	4	4	3	2	3	2	1	1	2	3	4	3	2	2	2.1	5.2
17-Dec-06	2	2	1	1	1	1	2	1	2	2	3	3	3	3	2	2	2	2	4	3	4	4	6	5	2.5	5.5
18-Dec-06	6	2	6	8	11	12	13	14	15	15	13	13	13	13	15	16	19	18	16	16	16	13	10	10	12.6	19.4
19-Dec-06	9	9	11	6	12	26	26	22	14	5	6	15	16	15	18	10	3	4	6	4	5	6	8	5	8.9	26.3
20-Dec-06	6	5	8	4	1	4	1	4	4	4	6	6	5	6	6	5	2	2	1	2	1	1	1	3	4.0	7.9
21-Dec-06	4	8	9	16	16	11	15	10	8	8	5	7	7	7	15	13	5	3	8	8	8	8	9	8	8.5	16.2
22-Dec-06	10	13	13	16	14	13	9	5	7	8	16	20	17	20	19	15	6	4	8	6	6	7	6	7	9.9	20.0
23-Dec-06	6	4	2	3	3	4	4	2	1	3	4	3	0	1	2	4	6	13	15	18	18	15	11	8	4.8	18.4
24-Dec-06	4	4	4	7	6	7	3	6	7	6	5	2	0	1	4	2	3	2	16	12	11	18	18	15	6.6	17.9
25-Dec-06	14	8	7	8	4	6	4	2	6	4	4	5	4	5	4	4	3	6	6	7	6	7	7	7	5.7	13.7
26-Dec-06	6	7	7	7	6	7	6	7	7	5	7	8	5	4	3	4	5	3	2	2	3	2	4	3	4.9	7.8
27-Dec-06	4	3	3	3	5	3	2	3	3	2	4	5	3	2	5	6	4	8	9	7	6	2	1	2	3.0	8.5
28-Dec-06	3	4	5	4	5	3	4	4	6	5	4	3	5	6	7	6	6	4	12	11	11	12	5	7	5.9	11.7
29-Dec-06	10	9	6	4	4	1	2	2	5	9	9	10	13	12	13	14	13	11	14	5	5	5	10	7	7.8	14.3
30-Dec-06	16	10	7	8	9	9	10	15	10	7	7	15	18	20	24	20	16	16	12	7	7	7	5	5	10.9	23.6
31-Dec-06	5	3	3	5	4	2	2	2	2	2	3	3	4	4	5	5	6	3	2	5	6	4	5	4	3.8	6.1
1-hr Vector	4.7	4.0	4.2	4.5	4.3	4.3	4.5	3.7	4.0	3.8	4.2	5.2	4.8	4.5	4.9	4.1	3.5	3.5	4.3	4.4	4.3	5.1	4.9	4.7		
Hourly Max	15.9	13.3	13.0	16.2	15.6	26.3	25.7	21.7	20.2	19.9	17.5	20.0	21.5	21.6	23.6	20.4	19.4	18.2	16.4	18.4	18.4	17.9	17.6	14.8		

PASZA - Valleyview - Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	353.7	312.5	239.5	208.7	191.3	83.7	7.5	224 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Dec-06	319	259	184	159	209	179	179	209	218	199	213	278	294	302	320	243	210	201	201	229	173	207	263	204	242	WSW
2-Dec-06	199	223	250	214	254	246	216	231	231	245	226	210	332	208	196	194	194	194	190	195	217	216	211	200	209	SSW
3-Dec-06	321	352	348	28	33	359	304	345	6	30	61	60	126	143	180	181	160	179	182	190	189	193	195	192	191	S
4-Dec-06	195	205	216	214	218	214	199	212	251	232	239	193	189	11	1	358	344	243	205	191	176	212	175	188	209	SSW
5-Dec-06	238	286	268	268	291	292	282	281	291	292	297	298	305	322	317	327	329	11	19	5	8	8	319	334	305	NW
6-Dec-06	11	259	193	174	249	106	31	291	284	179	182	187	188	184	186	190	192	190	191	194	190	189	193	204	190	S
7-Dec-06	210	212	213	211	214	218	220	223	218	221	256	207	251	194	302	217	208	215	194	206	327	214	205	201	215	SW
8-Dec-06	194	210	207	205	197	204	211	219	216	246	206	203	196	193	203	201	219	210	222	217	208	206	231	270	211	SSW
9-Dec-06	295	133	193	211	212	202	7	357	209	81	77	148	8	16	39	17	357	343	304	197	183	185	191	189	198	SSW
10-Dec-06	189	192	191	189	188	192	192	192	189	188	188	190	198	187	204	255	280	220	231	228	214	218	108	194	194	SSW
11-Dec-06	225	279	265	224	236	211	211	227	229	218	233	209	202	189	201	161	3	349	55	192	193	191	217	202	208	SSW
12-Dec-06	201	207	201	195	189	202	212	225	277	280	284	289	292	292	296	295	279	258	205	224	194	190	217	227	260	W
13-Dec-06	239	207	14	360	341	219	245	199	185	177	194	200	208	188	191	191	206	191	209	240	203	208	222	208	204	SSW
14-Dec-06	211	216	215	217	219	207	215	205	237	227	240	262	261	264	263	261	190	171	156	88	13	355	6	359	240	WSW
15-Dec-06	349	84	84	89	115	74	40	30	20	23	15	7	360	351	338	341	329	321	313	304	317	302	284	255	8	N
16-Dec-06	293	295	302	285	198	218	222	170	185	201	181	172	188	180	194	204	5	186	218	209	215	221	222	203	217	SW
17-Dec-06	201	196	323	214	191	164	202	215	195	206	212	208	204	199	246	209	261	222	218	227	224	225	216	209	216	SW
18-Dec-06	212	232	212	199	193	188	189	191	189	191	190	191	188	184	193	196	191	191	193	195	191	195	199	199	193	SSW
19-Dec-06	201	195	194	211	276	291	286	291	277	253	245	259	268	274	289	283	166	284	253	227	210	193	185	205	261	W
20-Dec-06	192	203	190	205	291	222	233	207	201	215	203	207	212	203	199	208	218	226	244	218	254	247	241	209	211	SSW
21-Dec-06	215	204	198	191	190	191	189	198	201	194	252	202	201	231	257	256	239	215	238	222	231	240	223	219	214	SW
22-Dec-06	227	240	245	254	252	248	248	222	228	247	261	264	281	297	300	295	280	246	254	251	247	190	201	183	258	WSW
23-Dec-06	195	174	172	221	201	191	206	258	246	232	222	208	20	191	280	170	272	289	296	306	309	294	281	269	272	W
24-Dec-06	160	184	189	184	186	260	219	133	173	167	199	175	45	342	176	198	161	186	187	162	180	185	185	188	183	S
25-Dec-06	192	204	208	199	222	212	207	221	213	218	217	211	191	209	208	221	205	192	209	211	213	189	189	190	204	SSW
26-Dec-06	189	183	206	210	214	211	218	212	208	186	190	183	170	159	196	150	174	205	231	191	233	151	216	223	197	SSW
27-Dec-06	217	226	210	212	210	223	217	219	220	201	214	189	194	251	268	297	311	313	315	289	289	234	232	174	252	WSW
28-Dec-06	209	198	181	194	256	215	197	190	176	204	203	211	191	190	191	196	197	210	189	188	193	187	205	201	196	SSW
29-Dec-06	195	196	200	216	200	284	204	265	196	200	194	194	189	184	186	186	191	197	189	208	171	214	263	275	201	SSW
30-Dec-06	262	246	230	234	238	240	244	253	237	219	224	250	260	266	273	274	276	272	262	200	208	207	198	200	251	WSW
31-Dec-06	199	206	222	215	219	219	225	243	239	246	219	214	199	194	207	196	199	226	255	210	217	203	213	222	213	SSW
Hourly Avg	215	216	212	207	219	230	230	233	231	225	227	231	238	244	251	242	231	233	221	214	216	207	213	209		

PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: December 1, 2006 to January 1, 2007

Summary

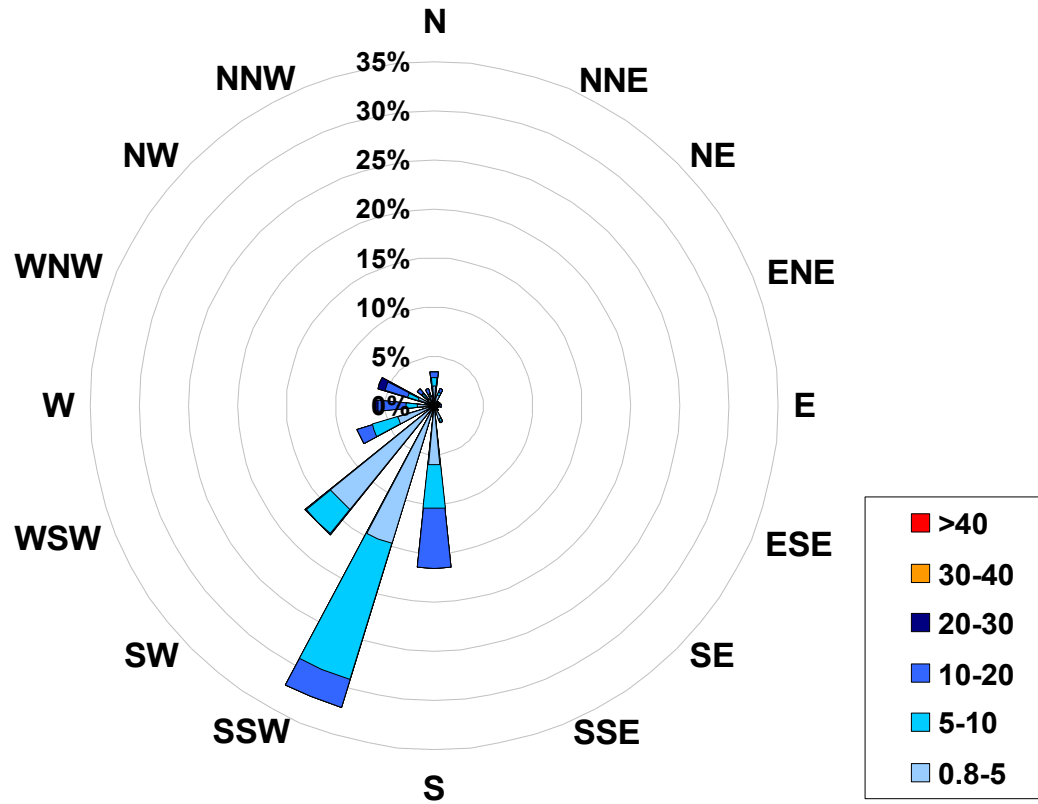
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	55.5	45.3	18.0	9.6	6.6	4.4	3.2

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	
1-Dec-06	9	20	14	20	9	10	18	13	12	20	6	16	9	11	20	22	49	25	23	57	25	42	41	48	57.4
2-Dec-06	40	45	17	17	23	9	12	10	16	14	9	32	44	15	8	8	6	7	8	10	17	14	9	11	45.4
3-Dec-06	38	4	8	12	12	12	11	8	9	13	14	17	13	36	15	10	18	10	8	14	7	16	7	7	37.8
4-Dec-06	10	8	8	6	8	6	7	11	37	17	49	13	21	41	8	8	10	34	36	14	40	15	9	6	48.9
5-Dec-06	10	9	9	8	7	7	7	8	5	6	6	6	7	6	6	9	12	8	6	7	7	7	21	22	22.1
6-Dec-06	48	45	18	16	23	45	52	34	34	48	9	6	6	7	7	6	6	6	5	6	6	6	6	6	51.6
7-Dec-06	6	8	8	4	7	23	12	12	8	41	38	21	66	51	48	30	11	9	15	22	29	9	19	4	65.8
8-Dec-06	3	3	11	4	5	9	52	42	14	11	15	9	7	18	10	22	9	11	11	17	9	5	9	48	52.5
9-Dec-06	26	32	14	12	5	32	24	34	48	52	39	70	25	20	16	16	17	48	26	40	4	4	5	6	70.4
10-Dec-06	5	12	5	5	6	5	6	7	7	10	6	7	7	15	23	57	55	42	34	26	21	27	53	56.7	
11-Dec-06	32	40	56	49	19	26	9	21	17	11	8	5	8	14	49	41	22	25	18	5	5	5	16	5	55.7
12-Dec-06	5	4	6	5	18	23	4	9	11	8	9	8	6	5	6	7	7	11	11	5	5	7	8	12	22.6
13-Dec-06	24	14	52	32	24	57	36	20	21	38	11	22	23	11	6	10	6	50	55	54	23	11	6	3	56.8
14-Dec-06	6	5	3	3	4	5	3	3	8	6	8	7	4	4	7	20	16	67	28	40	19	14	33	14	66.7
15-Dec-06	47	15	11	12	13	12	8	9	8	7	5	5	6	5	6	5	6	7	8	11	8	8	12	10	47.0
16-Dec-06	16	9	8	17	10	7	10	7	13	9	7	7	9	15	11	31	42	29	15	9	7	7	9	11	41.7
17-Dec-06	33	21	52	33	50	38	23	27	13	9	9	4	7	14	26	29	19	23	10	13	14	15	8	22	51.7
18-Dec-06	42	28	5	4	5	6	4	4	4	4	6	5	4	5	5	5	5	5	6	5	5	5	8	5	42.1
19-Dec-06	38	5	3	7	12	7	6	6	6	8	8	4	6	7	7	11	20	28	7	7	4	6	6	7	38.0
20-Dec-06	6	15	8	13	41	11	47	11	19	15	7	18	10	7	11	5	36	14	41	6	32	39	42	16	47.5
21-Dec-06	15	7	9	5	7	7	6	9	13	14	20	10	7	13	6	5	11	9	13	8	11	10	9	7	20.1
22-Dec-06	16	7	9	5	7	6	7	7	8	10	6	5	8	8	8	8	10	6	7	9	8	6	6	5	15.8
23-Dec-06	6	18	27	14	14	9	8	14	14	10	13	37	38	34	18	10	19	8	8	7	6	6	7	8	37.6
24-Dec-06	16	26	33	11	6	8	18	17	7	14	22	28	76	34	12	14	16	27	6	11	17	6	6	5	76.3
25-Dec-06	12	4	7	4	11	10	17	15	5	8	7	6	8	4	10	8	15	5	4	3	2	9	10	4	17.0
26-Dec-06	35	4	11	13	8	4	4	3	3	9	5	6	10	15	11	8	5	47	38	26	28	31	12	25	47.0
27-Dec-06	6	8	13	9	4	15	22	10	16	34	8	7	11	29	10	11	14	9	10	12	21	36	51	32	51.3
28-Dec-06	45	10	10	23	16	19	15	19	6	7	7	9	8	7	6	8	8	11	6	6	5	7	6	6	44.6
29-Dec-06	23	5	9	13	13	51	36	36	12	6	9	7	6	7	8	8	6	6	15	52	24	9	12	15	52.2
30-Dec-06	5	9	9	9	8	8	8	6	9	8	10	6	5	5	8	7	7	5	9	7	8	4	16	12	15.5
31-Dec-06	17	14	10	4	7	13	12	22	15	17	11	6	8	11	4	7	4	31	28	11	11	9	14	7	31.0
Hourly Max	48	45	56	49	50	57	52	42	48	52	49	70	76	51	49	41	57	67	55	57	40	42	51	53	

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for December 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	372
5	to	10	224
10	to	20	138
20	to	30	10
30	to	40	0
	>	40	0
Total Non-Zero Values			744

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for December 2006

PASZA					
Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Site Legal
Duplicates					
34a	Puskwaskau	0.2	24.6	1.0	
34b	Puskwaskau	0.2	N/A	1.0	
36a	Guy	0.3	31.5	1.7	
36b	Guy	0.3	32.5	1.6	
37a	Crooked Creek	0.3	31.9	3.3	
37b	Crooked Creek	0.3	29.7	2.9	
49a	Grande Prairie HP	0.4	17.5	15.5	
49b	Grande Prairie HP	0.3	16.6	16.1	
1	Silver Valley	0.7	32.3	2.1	08-27-081-11 W6M
2	Bay Tree	0.2	33.3	1.0	13-16-078-13 W6M
3	Forth Creek	0.6	34.2	1.2	04-13-082-07 W6M
4	Gordondale	0.6	34.8	1.4	04-34-078-10 W6M
5	Boone Creek	0.4	29.2	2.4	01-23-076-11 W6M
7	Steepprock Creek	0.2	33.8	1.5	09-35-072-13 W6M
9	Spirit River	0.5	32.1	2.0	08-12-079-07 W6M
10	Woking	0.9	36.0	1.5	01-13-076-07 W6M
11	Webber Creek	0.5	29.4	2.6	09-36-074-09 W6M
12	Hythe	0.3	N/A	3.5	14-36-072-11 W6M
14	Sylvester	0.1	23.5	1.3	08-06-069-12 W6M
16	Beaverlodge	0.4	33.7	4.3	15-36-071-10 W6M
17	Poplar	0.4	31.4	3.5	13-06-073-08 W6M
18	Saddle Hills	0.3	32.2	1.5	04-25-074-07 W6M
19	Wanham	0.7	37.4	1.7	16-22-077-03 W6M
20	Shaftesbury	0.3	30.5	1.5	04-03-082-23 W5M

Table 1. PASZA Passive Stations for December 2006 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
21	Eaglesham	0.3	30.3	1.3	16-21-079-25 W5M
23	Bear Lake	0.5	27.4	4.5	15-31-072-06 W6M
24	Wembley	0.3	27.6	4.4	12-31-070-08 W6M
25	Pinto Creek	0.1	26.2	2.9	04-24-069-11 W6M
26	Flyingshot	0.3	24.3	5.9	15-36-070-07 W6M
27	Grande Prairie I	0.4	19.9	12.9	08-15-071-06 W6M
28	Clairmont Lake	0.7	32.5	4.0	09-06-073-04 W6M
29	Smoky Heights	0.7	30.8	3.5	04-06-075-02 W6M
30	Fitzsimmons	0.3	27.6	4.0	15-36-072-03 W6M
32	Gold Creek	0.2	17.7	5.2	06-33-067-05 W6M
33	Wapiti	0.2	26.2	3.7	02-25-071-03 W6M
34	Puskwaskau	0.2	24.6	1.0	15-35-074-25 W5M
35	Jean Cote	0.4	30.4	1.2	12-35-079-21 W5M
36	Guy	0.3	32.0	1.6	03-04-076-22 W5M
37	Crooked Creek	0.3	30.8	3.1	16-01-071-26 W5M
38	Karr Creek	0.1	22.2	1.0	10-16-065-02 W6M
39	Clouston Creek	0.5	27.3	1.7	12-01-073-22 W5M
40	McLennan	0.3	28.3	1.3	03-29-077-19 W5M
41	Valleyview	0.5	28.9	2.0	09-30-069-22 W5M
42	Sunset House	0.5	42.6	1.2	05-32-070-19 W5M
43	High Prairie	0.2	24.7	2.7	16-13-074-17 W5M
44	Peavine	0.2	22.9	0.6	03-05-079-15 W5M
45	Gift Lake	0.1	22.1	1.3	10-07-079-12 W5M
46	Little Smoky	0.3	21.1	4.6	12-01-065-21 W5M
47	Kinuso	0.2	21.5	2.2	12-10-073-10 W5M
48	Deer Mountain	0.2	27.8	0.7	15-22-068-09 W5M
49	Grande Prairie HP	0.4	17.0	15.8	17-26-071-06 W6M

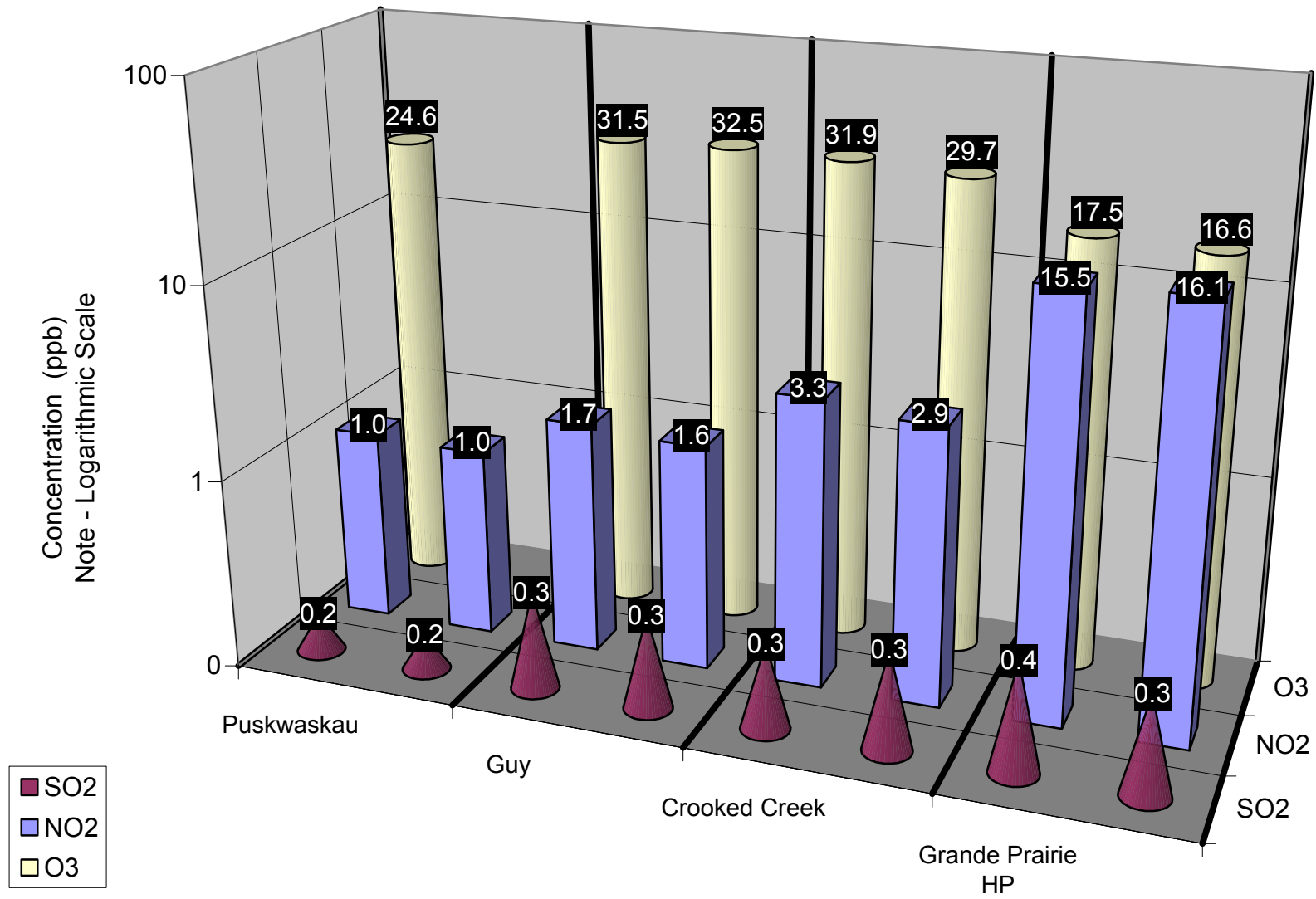


Figure 60. Duplicate Summary Chart

Table 2. Passive Summary Results for December 2006

Stats	Sulphur Dioxide	Ozone	Nitrogen Dioxide
	SO ₂	O ₃	NO ₂
	ppb	ppb	ppb
Passive Summary for December 2006 (PASZA Zone)			
Mean	0.4	28.6	3.0
Standard Deviation	0.2	5.5	2.9
Minimum	0.1	17.0	0.6
	Sylvester (#14)	Grande Prairie HP (#49)	Peavine (#44)
Maximum	0.9	42.6	15.8
	Woking (#10)	Sunset House (#42)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.6	27.1	8.3
PASZA Beaverlodge passive	0.4	33.7	4.3
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.6	12.5	24.0
PASZA Grande Prairie passive	0.4	17.0	15.8

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

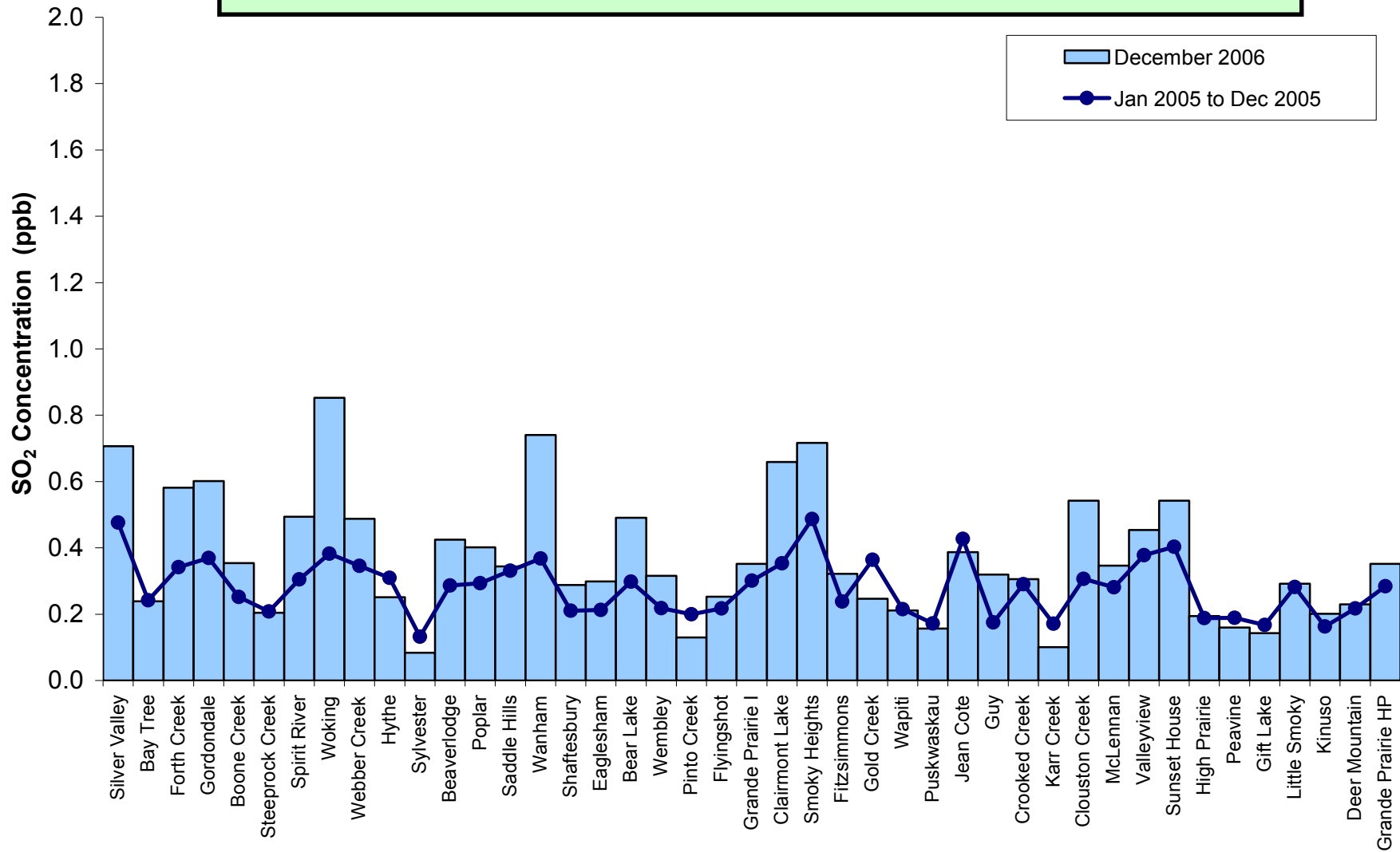


Figure 62. SO₂ Summary Chart

PASZA Passive O₃ Stations - December 2006 Average Concentrations in ppb

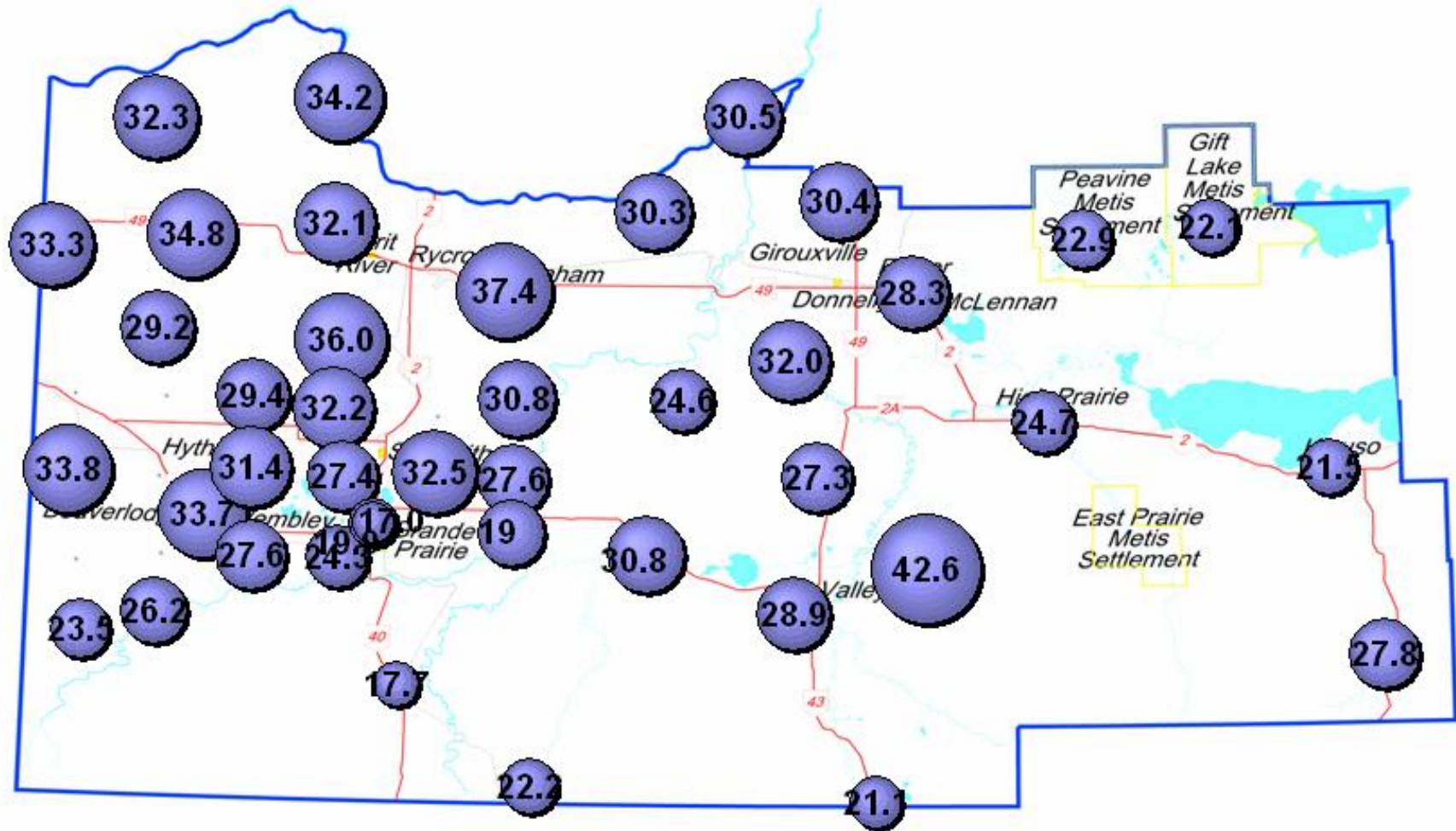


Figure 63. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

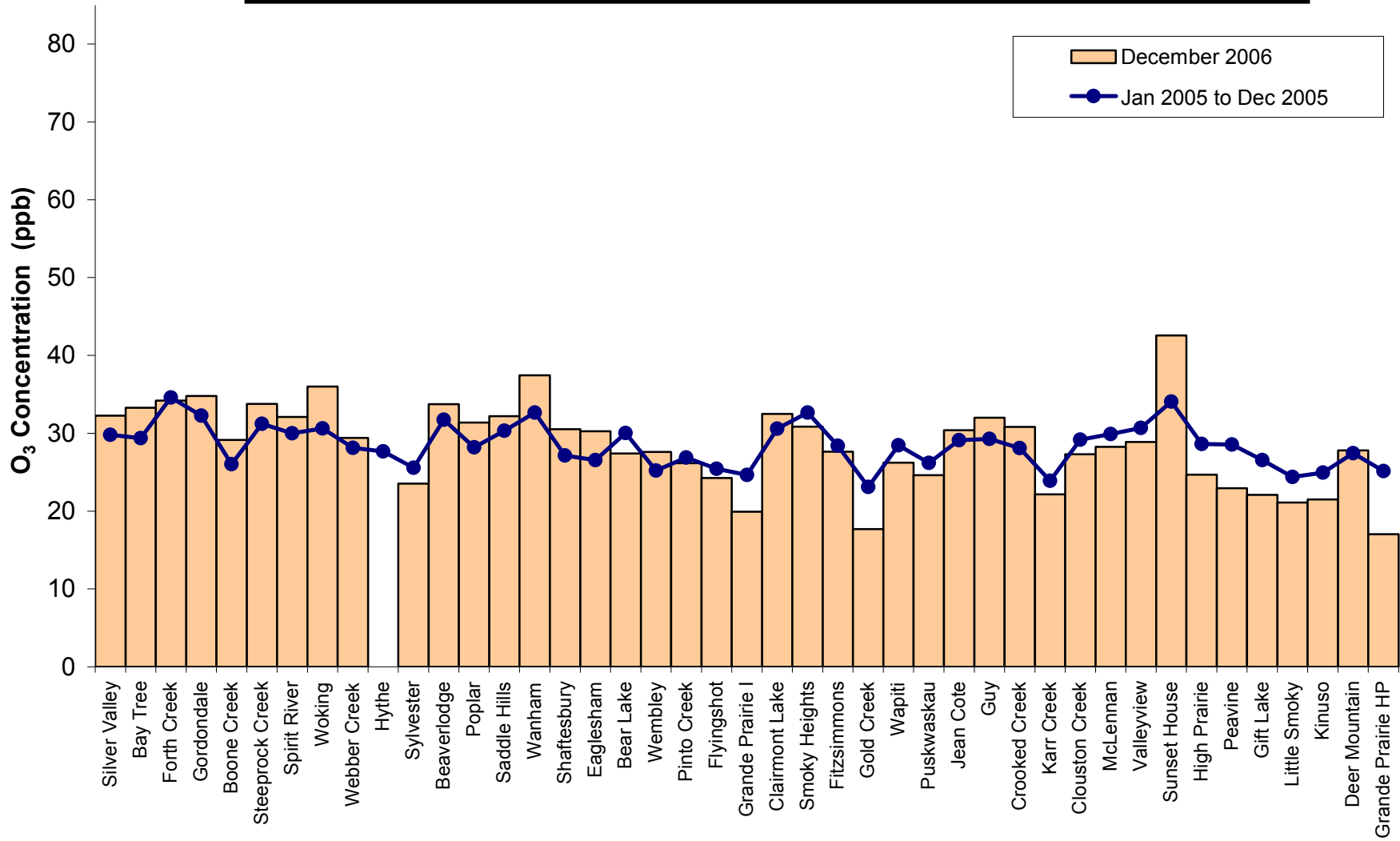


Figure 64. O₃ Summary Chart

PASZA Passive NO₂ Stations - December 2006
Average Concentrations in ppb

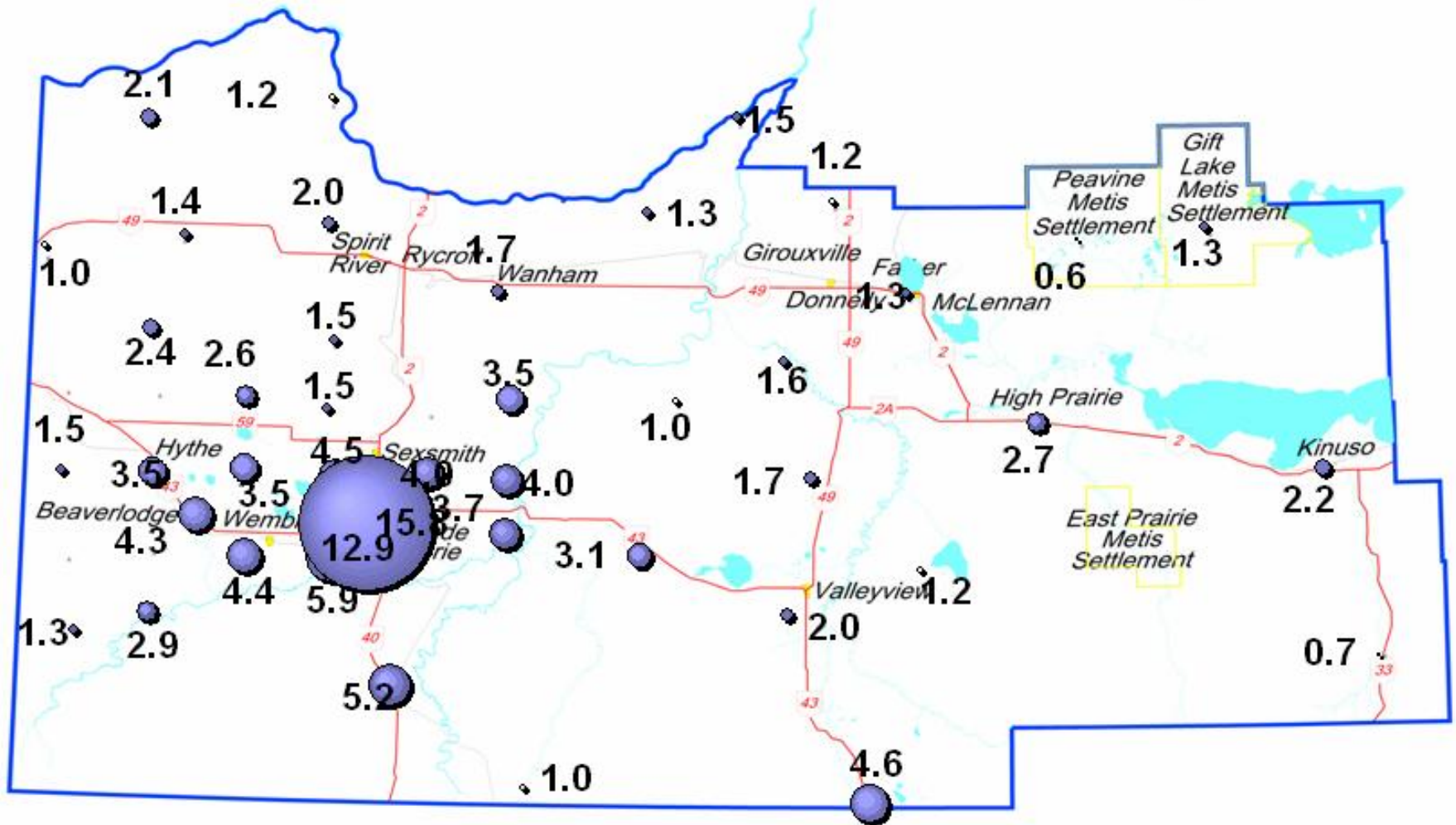


Figure 65. NO₂ Bubble Chart

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

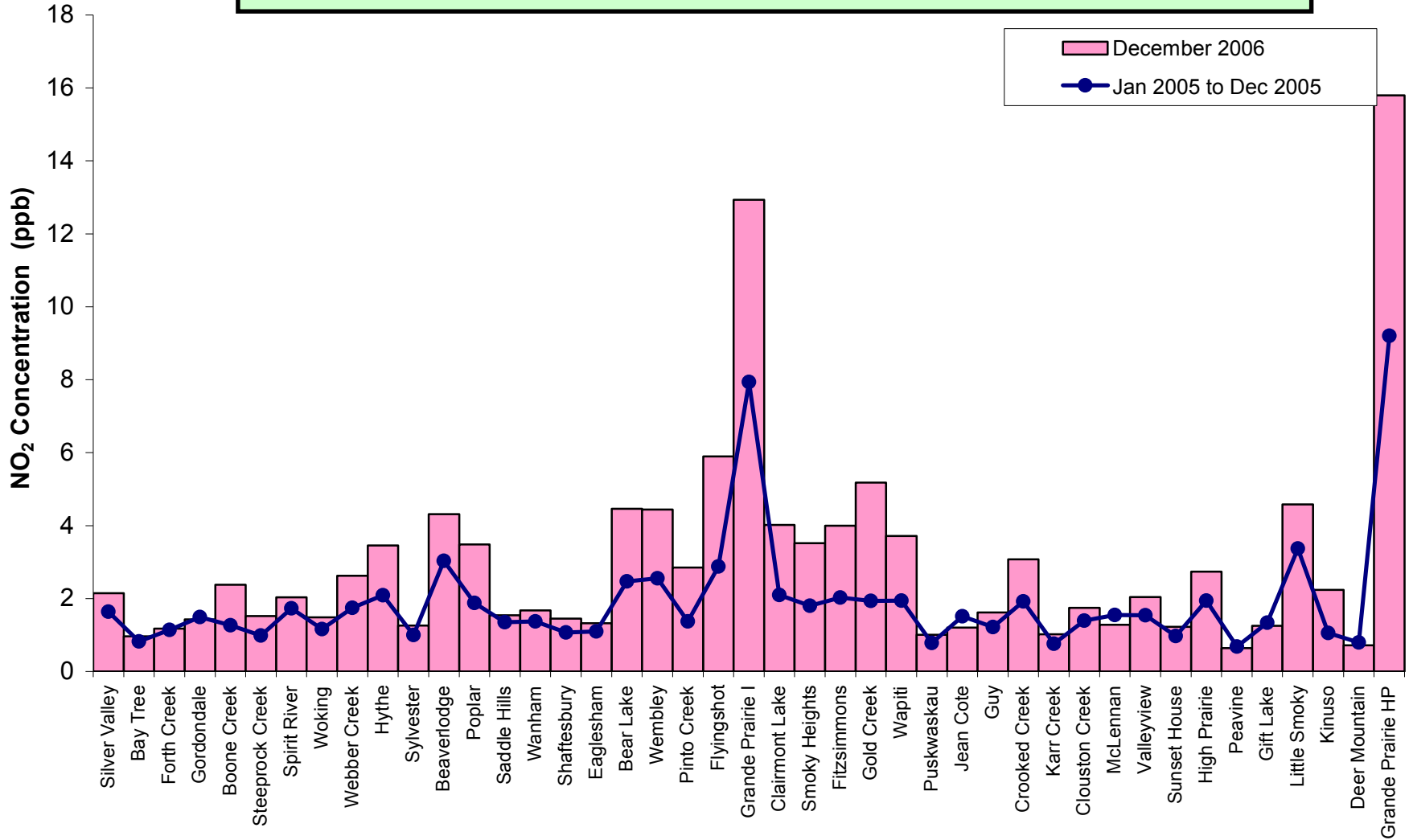


Figure 66. NO₂ Summary Chart

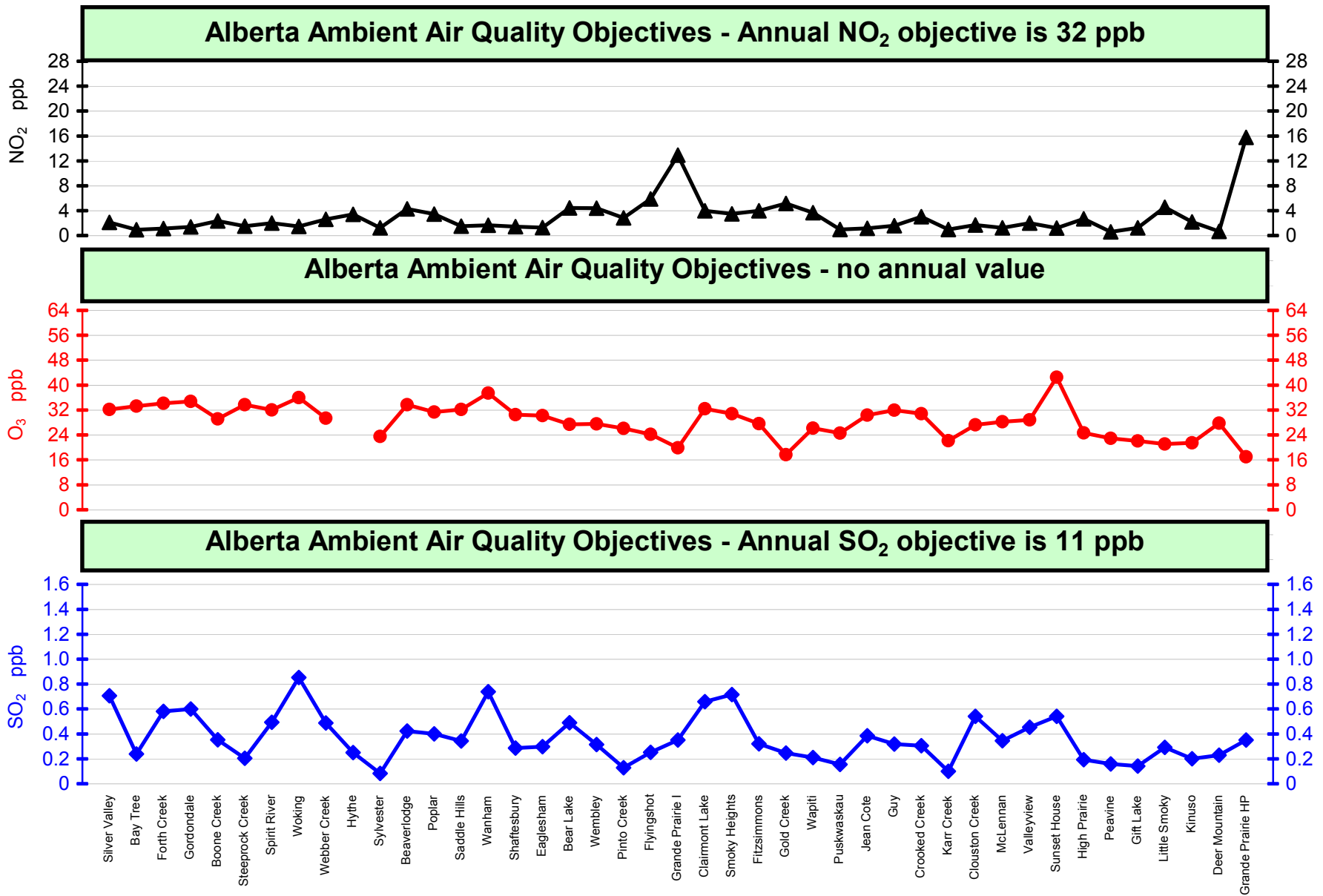


Figure 67. Overview Summary

December 2006 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS, PM_{2.5}

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, PM_{2.5}

PASZA – Falher (Portable) Station with the following calibrations:

SO₂, TRS, O₃

PASZA – Valleyview Station with the following calibrations:

SO₂, H₂S

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	December 18, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
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)	16:35
Barometric Pressure	27.2 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.924604	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.983175	Calculated slope	1.009627
Calculated intercept	2.127025	Calculated intercept	0.853674
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO ₂ zero pot	180		178	
SO ₂ span pot	001		105	
UV Lamp voltage	950	V	952	V
Vacuum	22	" Hg	22	" Hg
Sample Flow	425	ccm	425	ccm

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)
zero	2288.4	0.0	-0.9	N/A
2475	2288.4	324.6	321.3	1.0101
4600	4253.2	174.6	170.4	1.0250
11000	10170.6	73.0	72.6	1.0064
zero	2348.5	0.0	-1.1	As Found Zero
2540	2348.5	316.3	277.4	As Found Span
Average Correction Factor				1.0138

Calculated value of As Found Response: 275.870 ppm Percent Change of As Found: 12.8%

	before calibration		after calibration	
Auto zero	0.5	ppm	-0.4	ppm
Auto span	270.4	ppm	279.6	ppm

Notes: Adjusted zero and span.Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

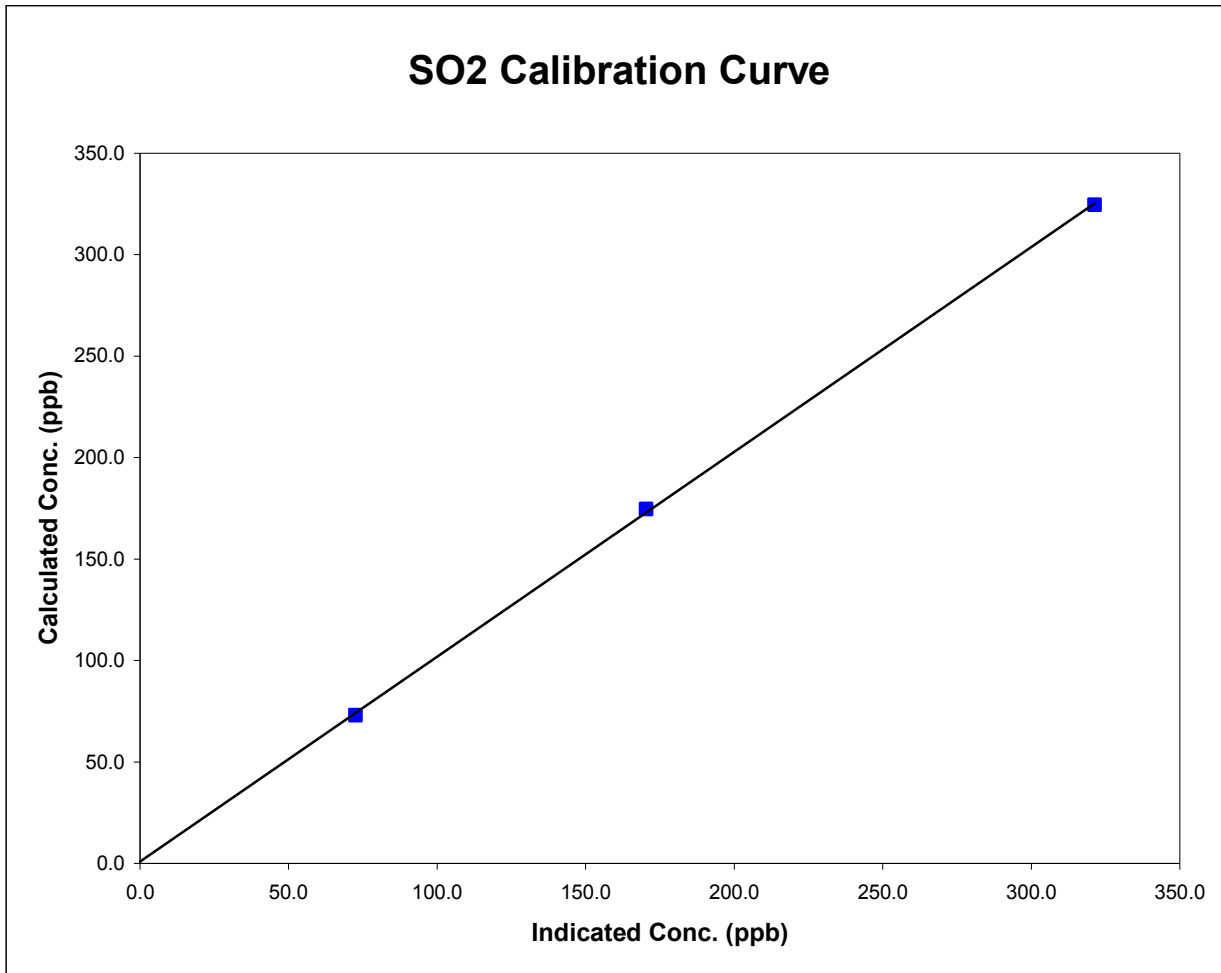


Station Information

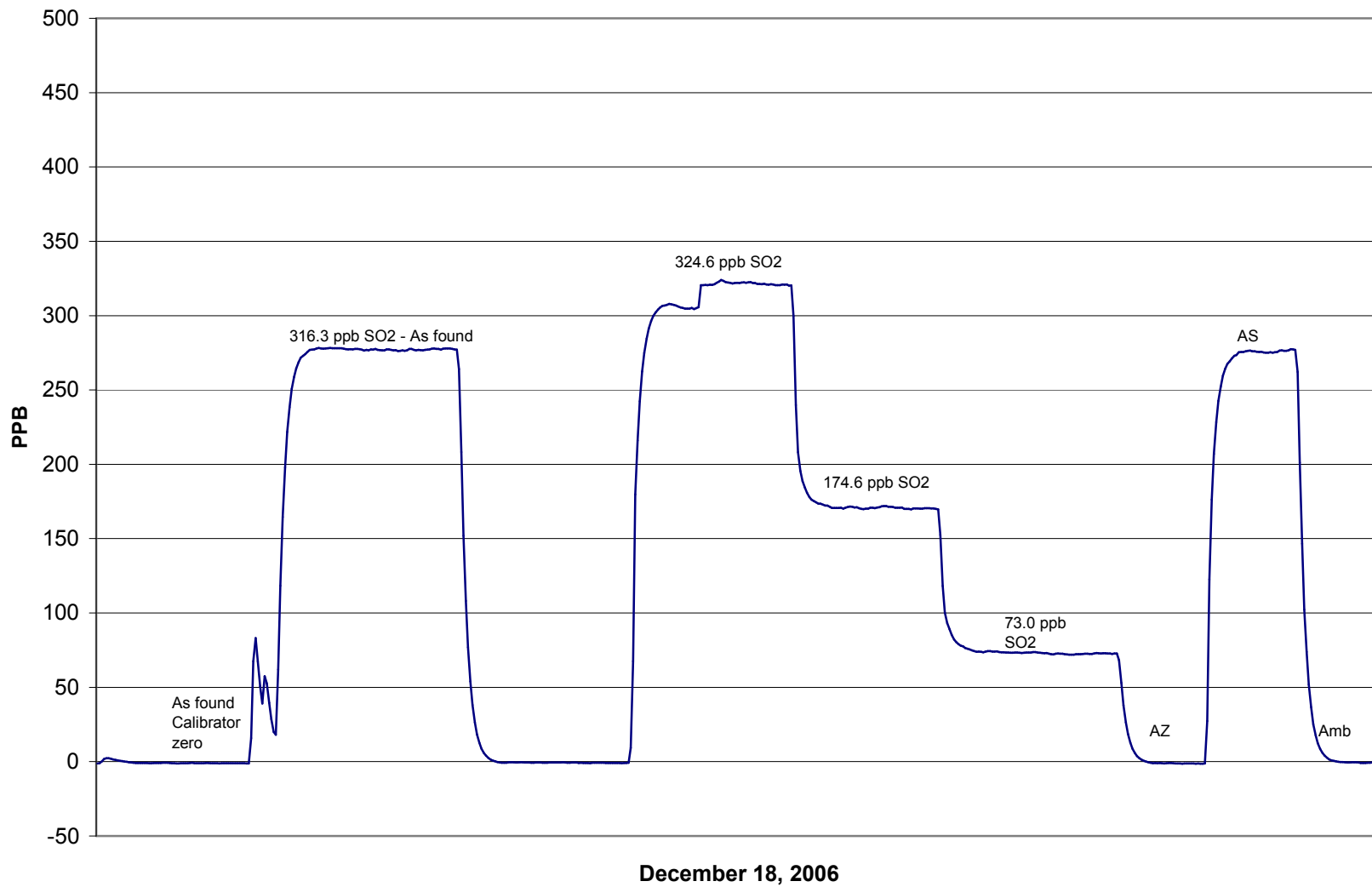
Calibration Date	December 18, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	12:00	End Time (MST)	16:35
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.9	N/A		
324.6	321.3	1.0101	Correlation Coefficient	0.999920
174.6	170.4	1.0250		
73.0	72.6	1.0064	Slope	1.009627
			Intercept	0.853674



SO2 Calibration



Calibration Report

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

**Station Information**

Calibration Date	<u>December 18, 2006</u>	Previous Calibration	<u>November 7, 2006</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>11:50</u>	End Time (MST)	<u>17:55</u>
Barometric Pressure	<u>0.909</u> <small>Atm</small>	Station Temperature	<u>20.0</u> <small>Deg C</small>
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2844</u>
NO Cal Gas Conc	<u>50.3</u> <small>ppm</small>	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> <small>ppm</small>	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.999173	1.000796	1.001160
	Data Offset	-0.232501	-0.097040	0.193158
After	Data Slope	0.997744	1.005623	1.002251
	Data Offset	1.448088	-0.576989	-0.547691
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	8.1	ppb	9.4	mV
NOx background	8.2	ppb	10.9	mV
NO coefficient	0.775		0.787	
NOx coefficient	0.983		0.983	
Chamber Temp	49.9	Deg C	50.0	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	176.2	mm Hg	180.6	mm Hg

Notes: Adjusted zero and span.

Calibration Report

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



Station Information

Calibration Date: December 18, 2006 Station Location: Muskoseepi Park

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	4992	0.00	0.0	0.0	0.0	-0.3	-0.3	0.1	N/A	N/A
1	4992	39.93	400.7	399.1	1.6	398.5	398.2	0.2	1.0056	1.0023
2	4992	19.91	200.6	199.8	0.8	200.9	200.7	0.2	0.9988	0.9957
3	4992	10.00	101.0	100.6	0.4	101.6	101.6	-0.1	0.9941	0.9900
AFZ	4992	0.00	0.0	0.0	0.0	0.7	0.0	0.8	0.0000	0.0000
AFS	4992	39.93	400.7	399.1	1.6	393.0	392.7	0.3	1.0197	1.0164
Average Correction Factor									0.9995	0.9960

As Found Concentrations: NO_x= 392.2 NO= 393.0 As Found Percent Change NO_x= -2.1% NO= -1.6%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

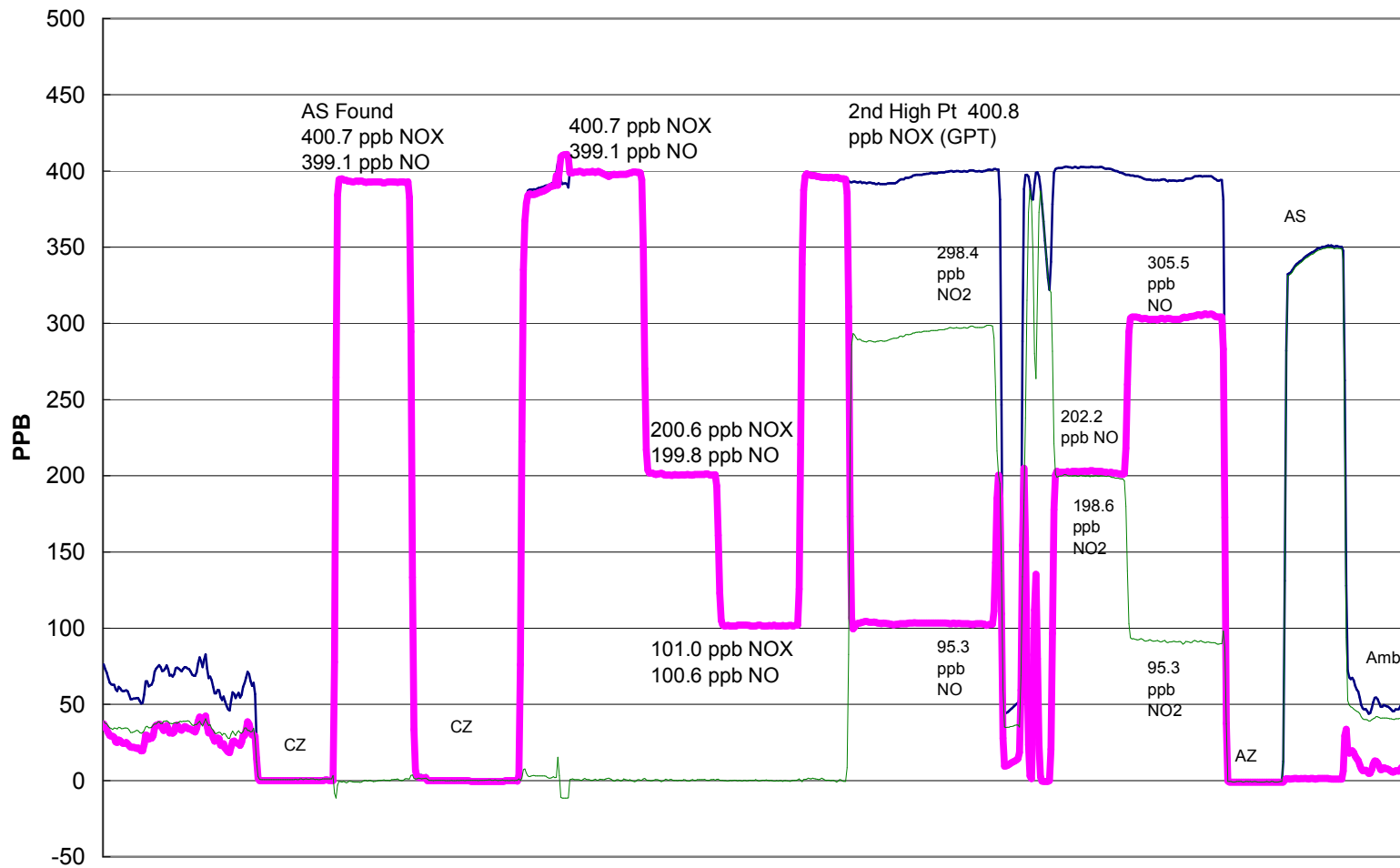
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	400.8	395.9	4.9	395.6	395.5	0.0	1.0132	1.0009	N/A	N/A
350	400.8	102.4	298.4	400.0	102.7	297.5	1.0021	0.9969	1.0031	99.7%
200	400.8	202.2	198.6	401.3	202.3	199.2	0.9987	0.9995	0.9970	100.3%
100	400.8	305.5	95.3	396.1	305.4	91.0	1.0118	1.0005	1.0473	95.5%
Average Correction Factor							1.0042	0.9990	1.0158	98.5%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	1.0	0.9	1.0	ppb	1.2	1.2	0.8	ppb
Auto span	375.0	371.8	2.7	ppb	351.3	349.4	0.6	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



December 18, 2006

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

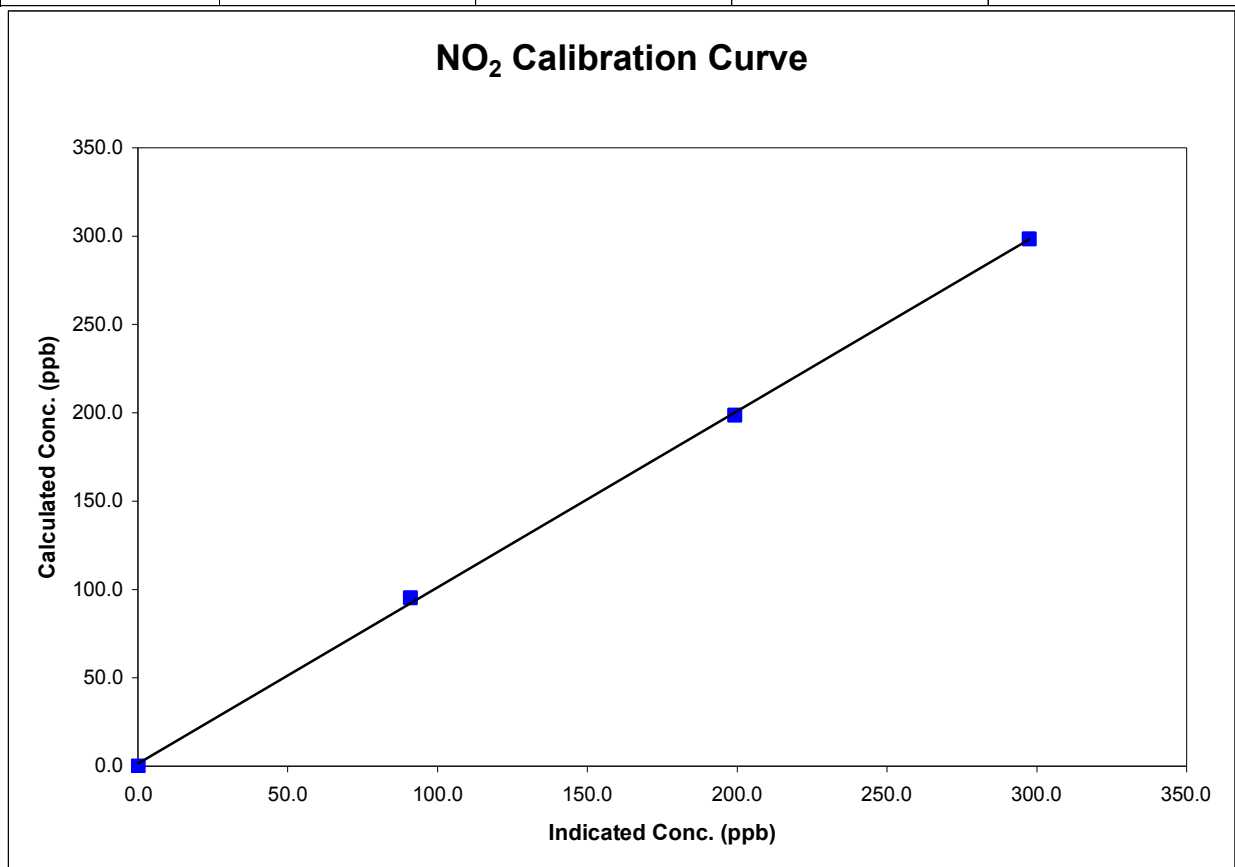


Station Information

Calibration Date	December 18, 2006	Previous Calibration	November 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:50	End Time (MST)	17:55
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999710
298.4	297.5	1.0031		
198.6	199.2	0.9970	Slope	0.997744
95.3	91.0	1.0473		
			Intercept	1.448088



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

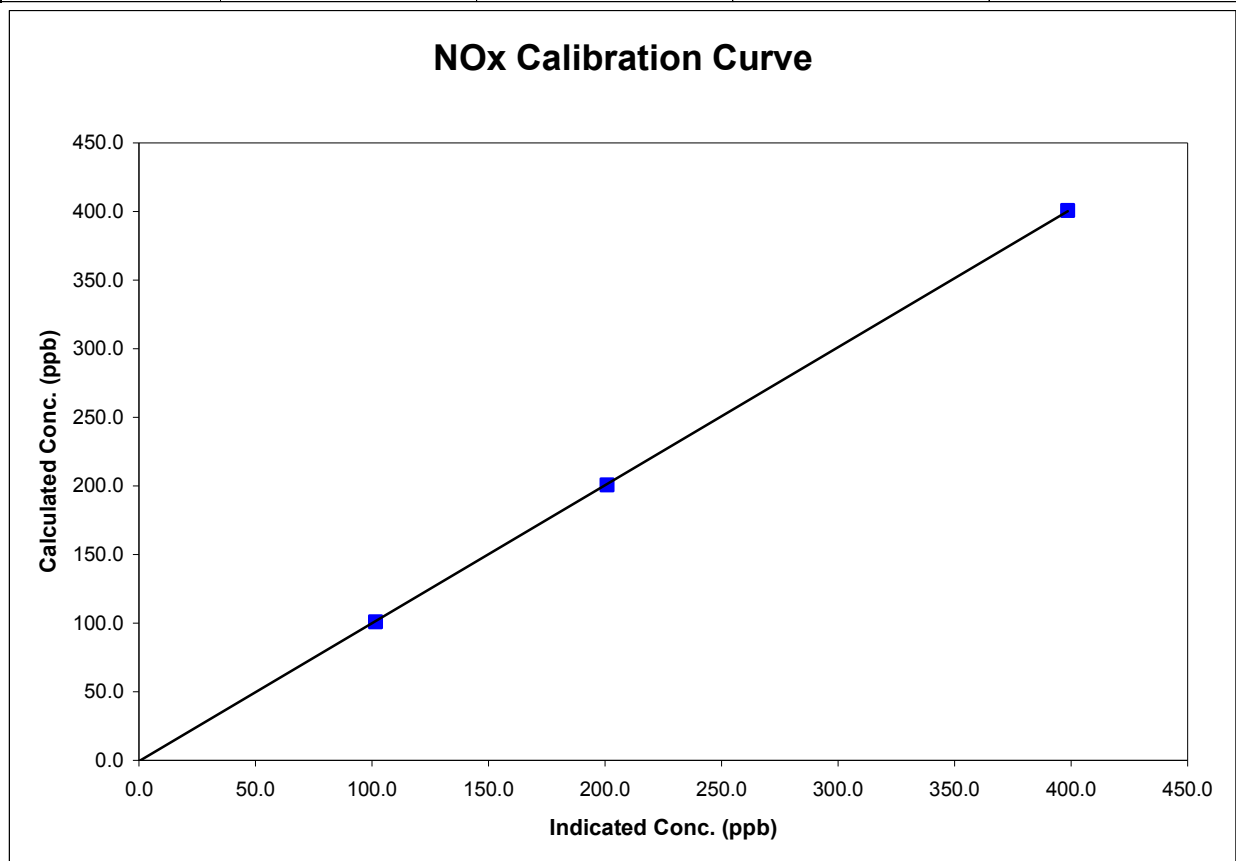


Station Information

Calibration Date	December 18, 2006	Previous Calibration	November 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:50	End Time (MST)	17:55
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	-0.3	0.0000		
400.7	398.5	1.0056	Correlation Coefficient	0.999977
200.6	200.9	0.9988		
101.0	101.6	0.9941	Slope	1.005623
			Intercept	-0.576989



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

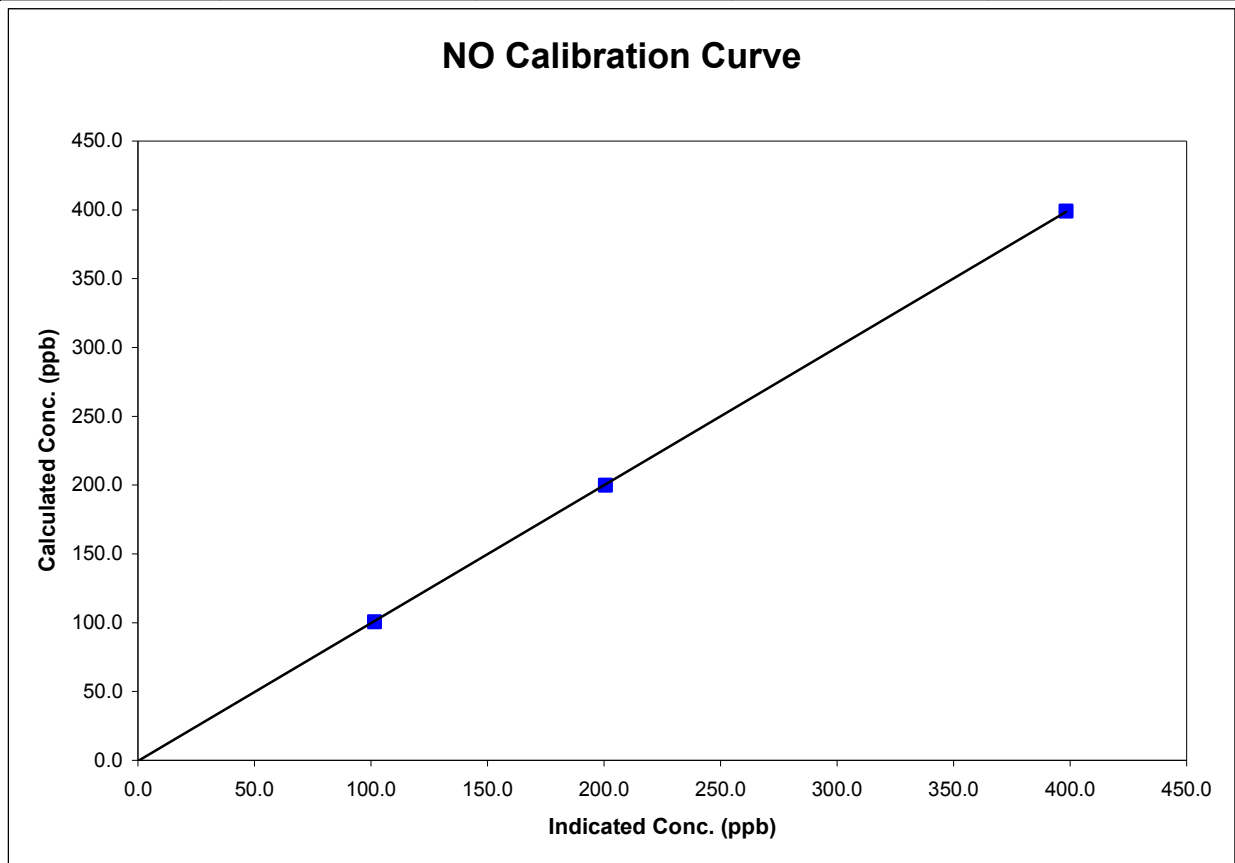


Station Information

Calibration Date	December 18, 2006	Previous Calibration	November 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:50	End Time (MST)	17:55
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	-0.3	N/A		
399.1	398.2	1.0023	Correlation Coefficient	0.999975
199.8	200.7	0.9957		
100.6	101.6	0.9900		
			Slope	1.002251
			Intercept	-0.547691



Calibration Summary

Parameter O3
 Air Monitoring Network PASZA

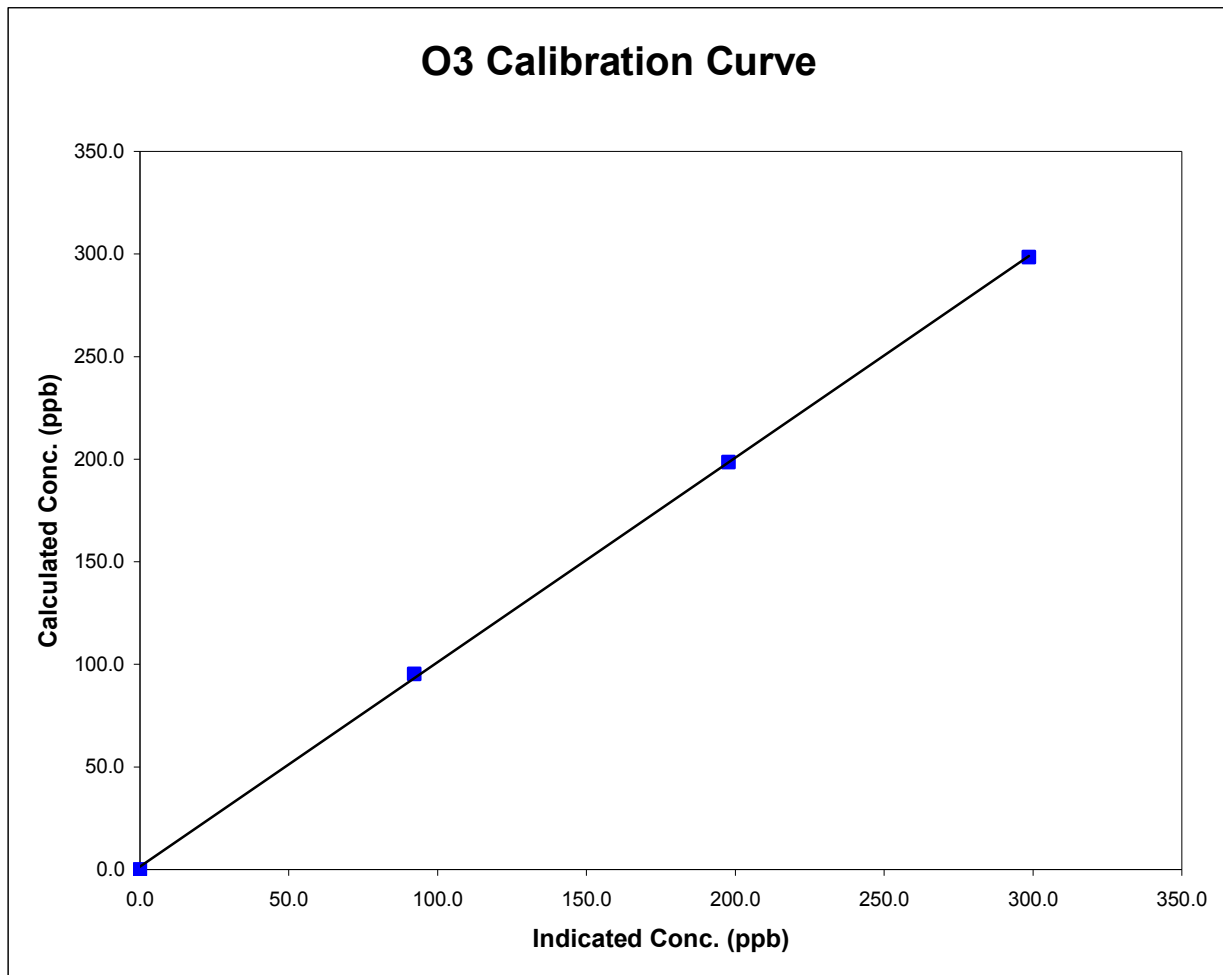


Station Information

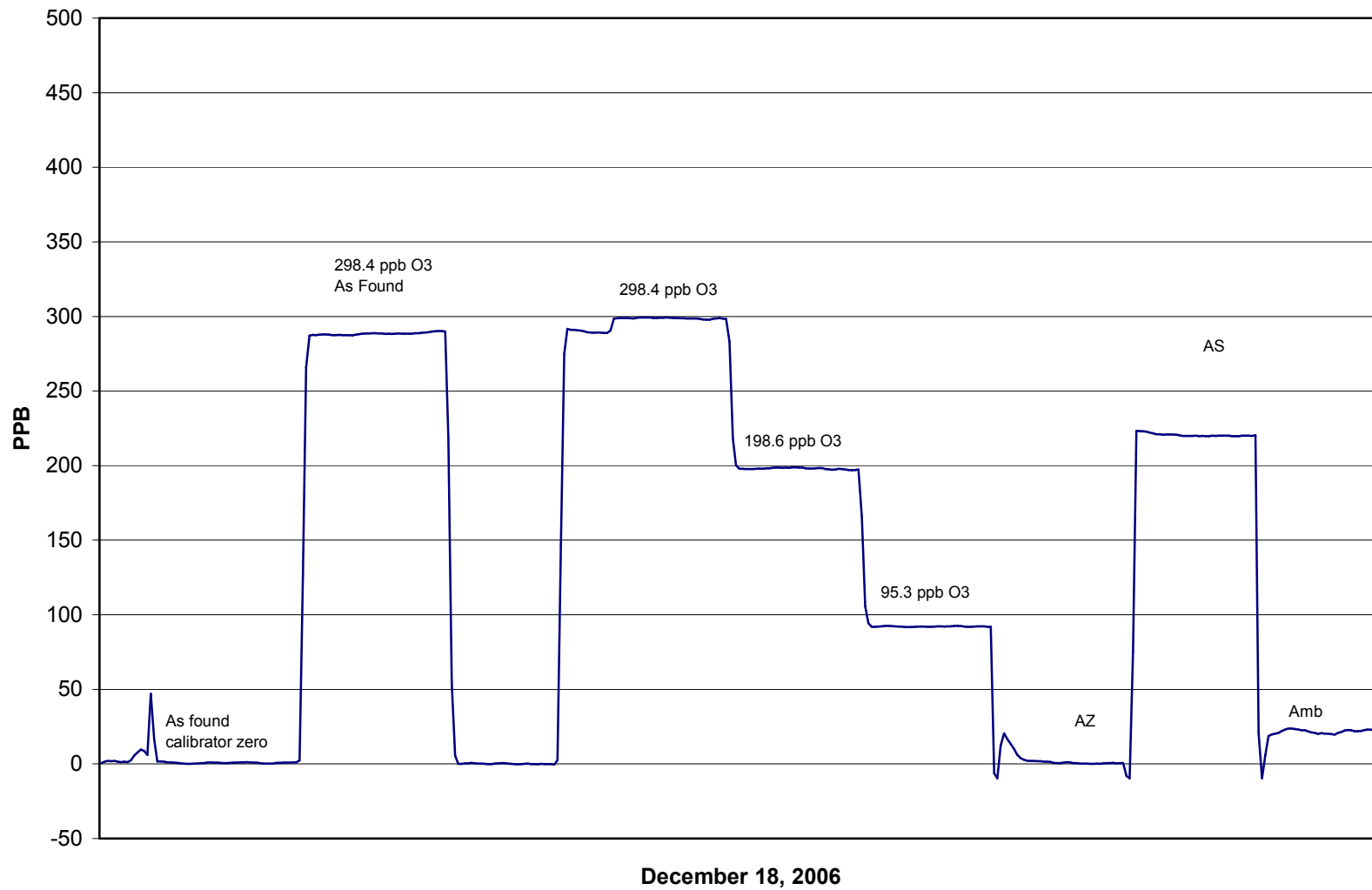
Calibration Date	December 18, 2006	Previous Calibration	November 13, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	17:19	End Time (MST)	20:10
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
298.4	298.6	0.9992	Correlation Coefficient	0.999864
198.6	197.8	1.0041		
95.3	92.1	1.0343	Slope	0.996809
			Intercept	1.393035



O3 Calibration



Calibration ReportParameter COAir Monitoring Network PASZA**Station Information**

Calibration Date	December 11, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:42	End Time (MST)	16:47
Barometric Pressure	0.913 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
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
	<u>Before</u>		<u>After</u>
Calculated slope	1.002887	Calculated slope	1.009743
Calculated intercept	-0.005864	Calculated intercept	-0.179849
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.053		1.047	
CO zero setting	7.569		8.3	
Sample pressure	663.4	mm Hg	675.4	mm Hg
Sample Flow	1.059	LPM	1.077	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)
4994	0.00	0.00	0.01	N/A
4994	39.94	23.80	23.70	1.0044
4994	19.91	11.91	11.97	0.9955
4994	9.50	5.70	6.05	0.9421
4994	0.00	0.00	0.88	As Found Zero
4994	39.94	23.80	25.76	As Found Span
Average Correction Factor				0.9807

Calculated value of As Found Response: 24.949 ppm Percent Change of As Found: -4.8%

	before calibration		after calibration	
Auto zero	0.03	ppm	-0.20	ppm
Auto span	20.99	ppm	20.73	ppm

Notes: _____

_____Calibration Performed By: Dawn Ewan

Calibration Summary

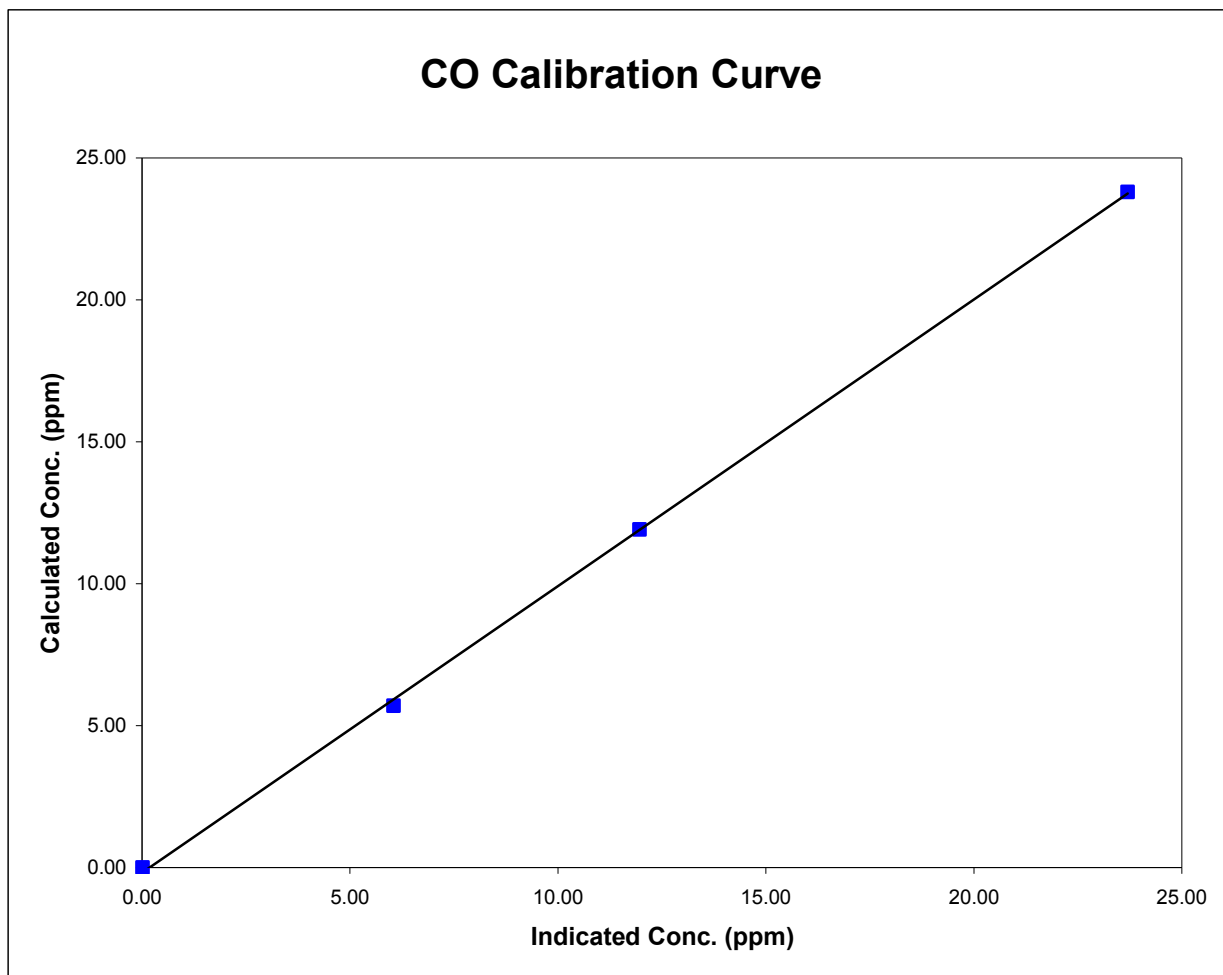
Parameter COAir Monitoring Network PASZA

Station Information

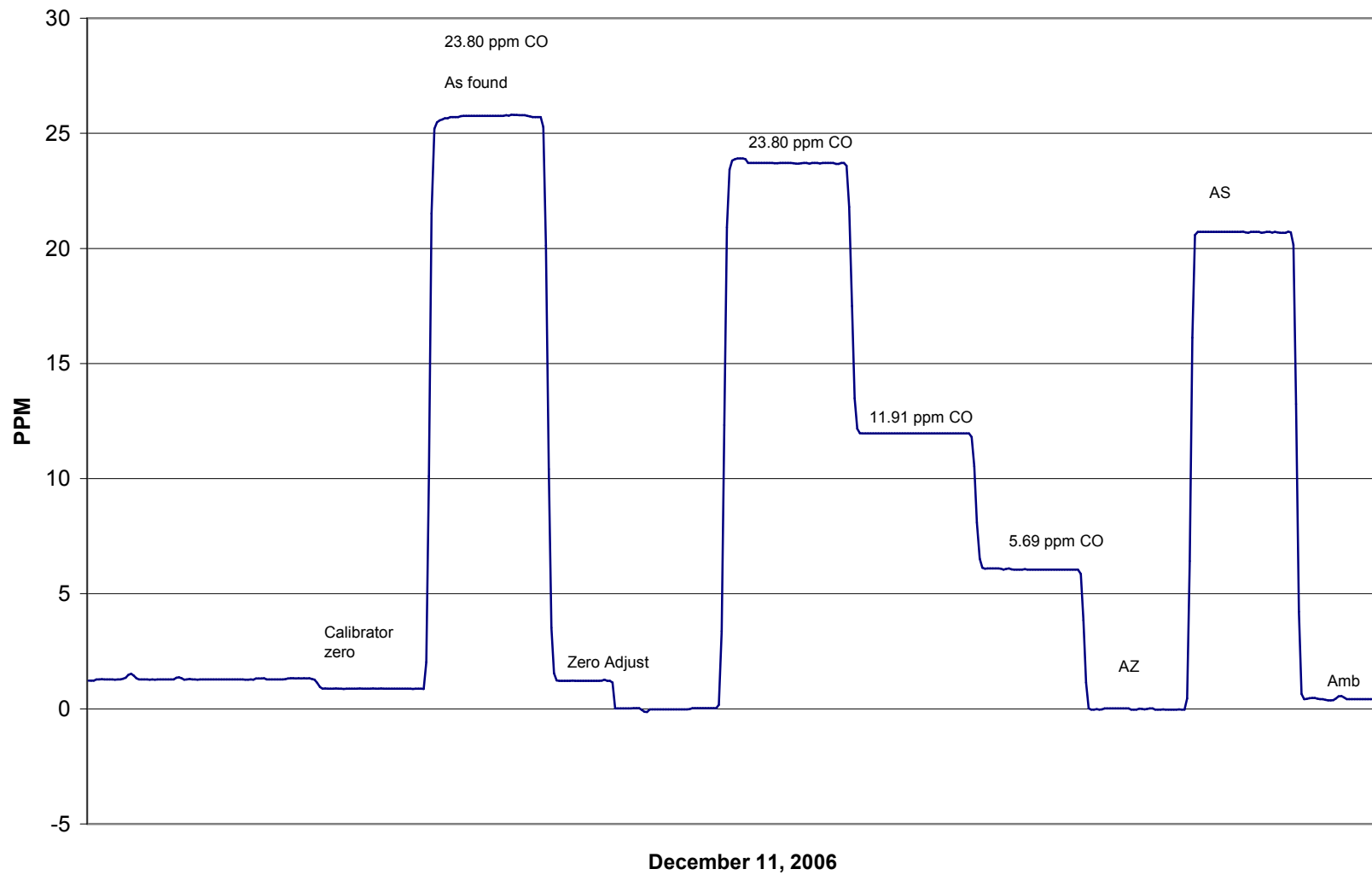
Calibration Date	December 11, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	13:42	End Time (MST)	16:47
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.014	N/A		
23.802	23.698	1.0044	Correlation Coefficient	0.999734
11.913	11.966	0.9955		
5.696	6.046	0.9421	Slope	1.009743
			Intercept	-0.179849



CO Calibration



Calibration Report

Parameter THC
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	December 11, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	11:03	End Time (MST)	14:23
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
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 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.000499	Calculated slope	1.004045
Calculated intercept	0.057916	Calculated intercept	-0.047912
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.1	psi	6.1	psi
THC span counts	6874	capture	6874	capture
THC zero counts	1002	capture	1002	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)
4992	0.00	0.00	0.02	N/A
4992	64.92	19.54	19.54	1.0002
4992	39.95	12.08	12.02	1.0050
4993	9.95	3.03	3.12	0.9698
4992	0.00	0.00	0.11	As Found Zero
4992	64.92	19.54	19.47	As Found Span
Average Correction Factor				0.9917

Calculated value of As Found Response: 19.430 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	0.02	ppm	-0.08	ppm
Auto span	22.25	ppm	20.95	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

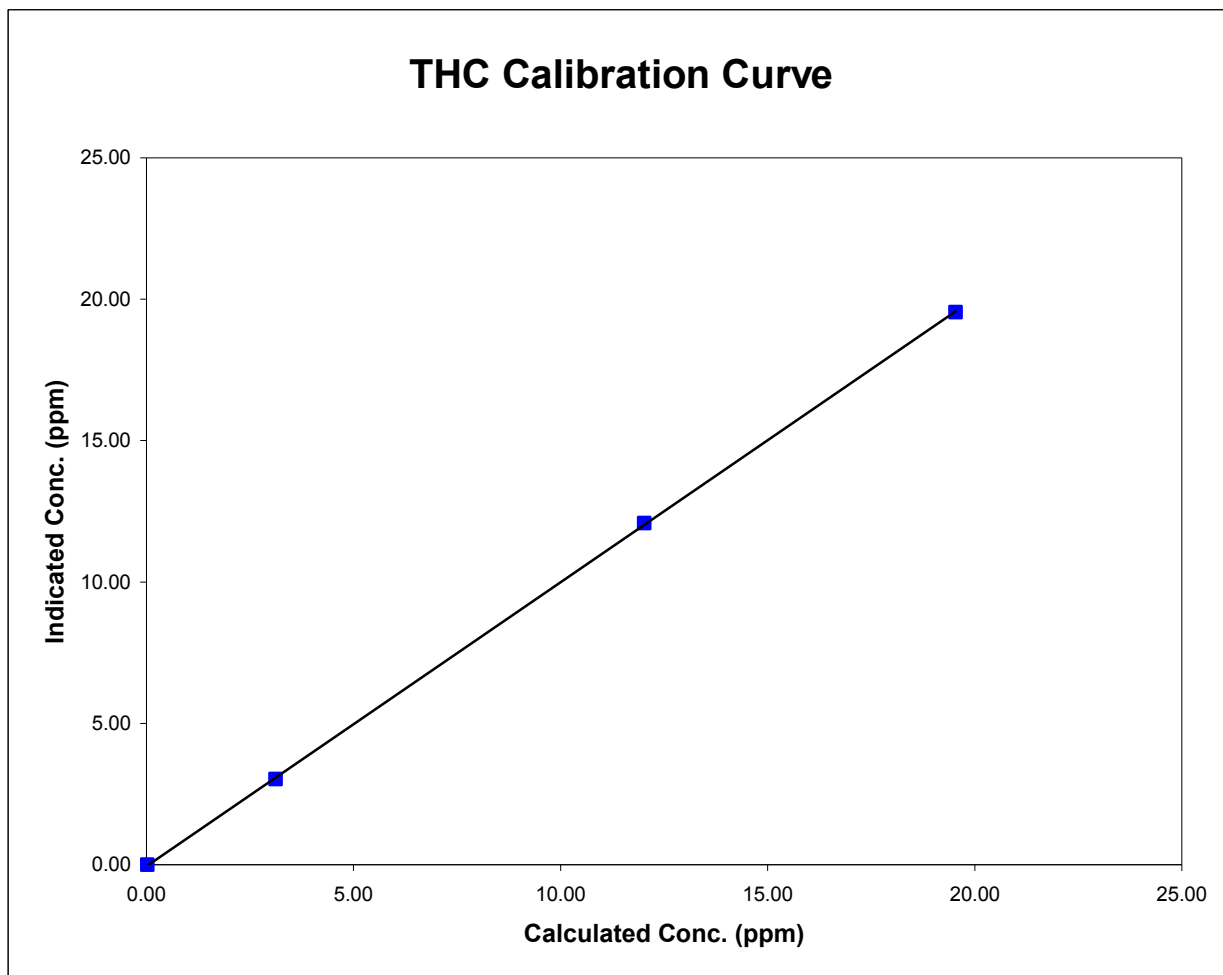


Station Information

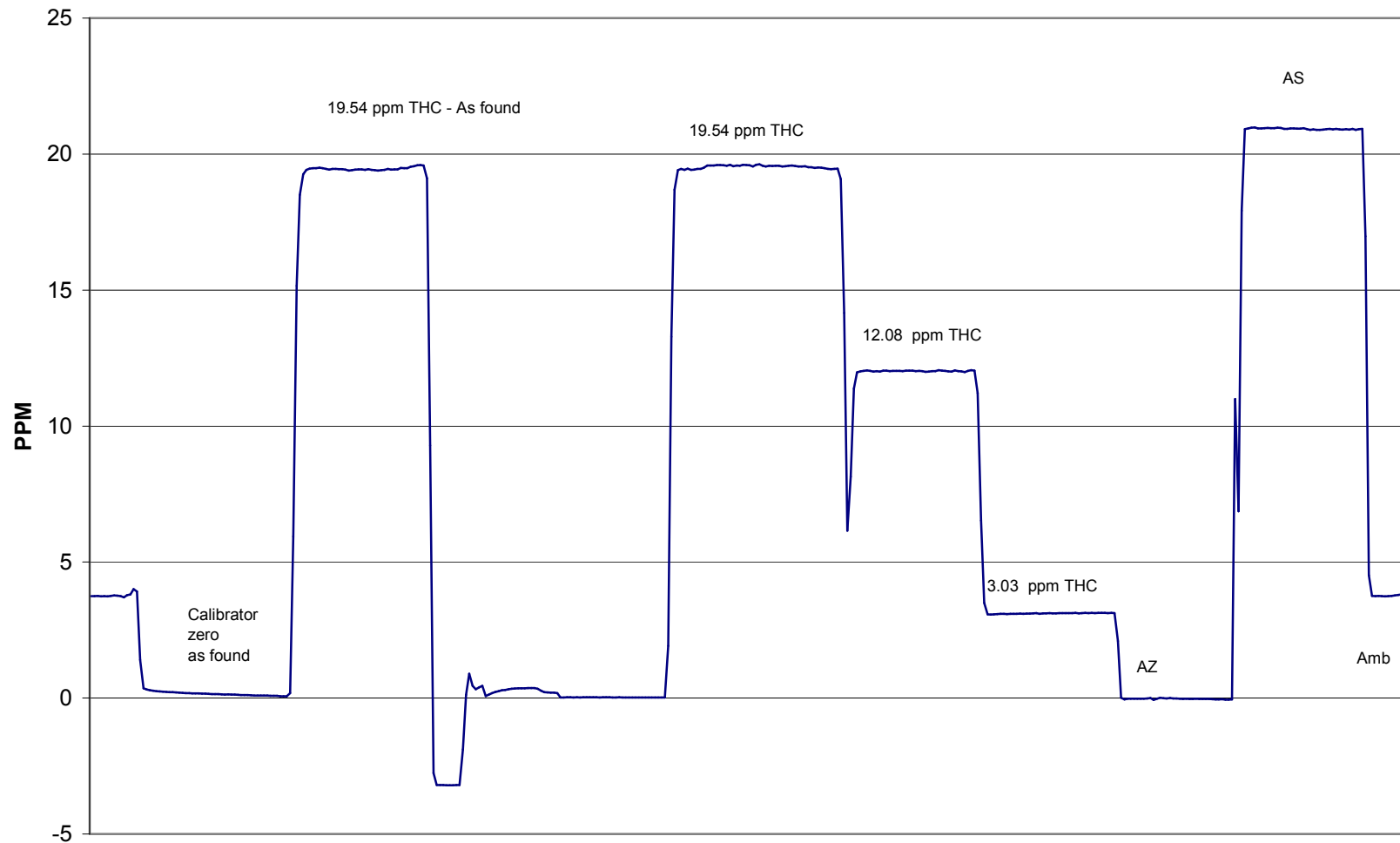
Calibration Date	December 11, 2006	Previous Calibration	November 6, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:03	End Time (MST)	14:23
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.021	N/A		
19.542	19.538	1.0002	Correlation Coefficient	0.999964
12.084	12.024	1.0050		
3.027	3.122	0.9698	Slope	1.004045
			Intercept	-0.047912

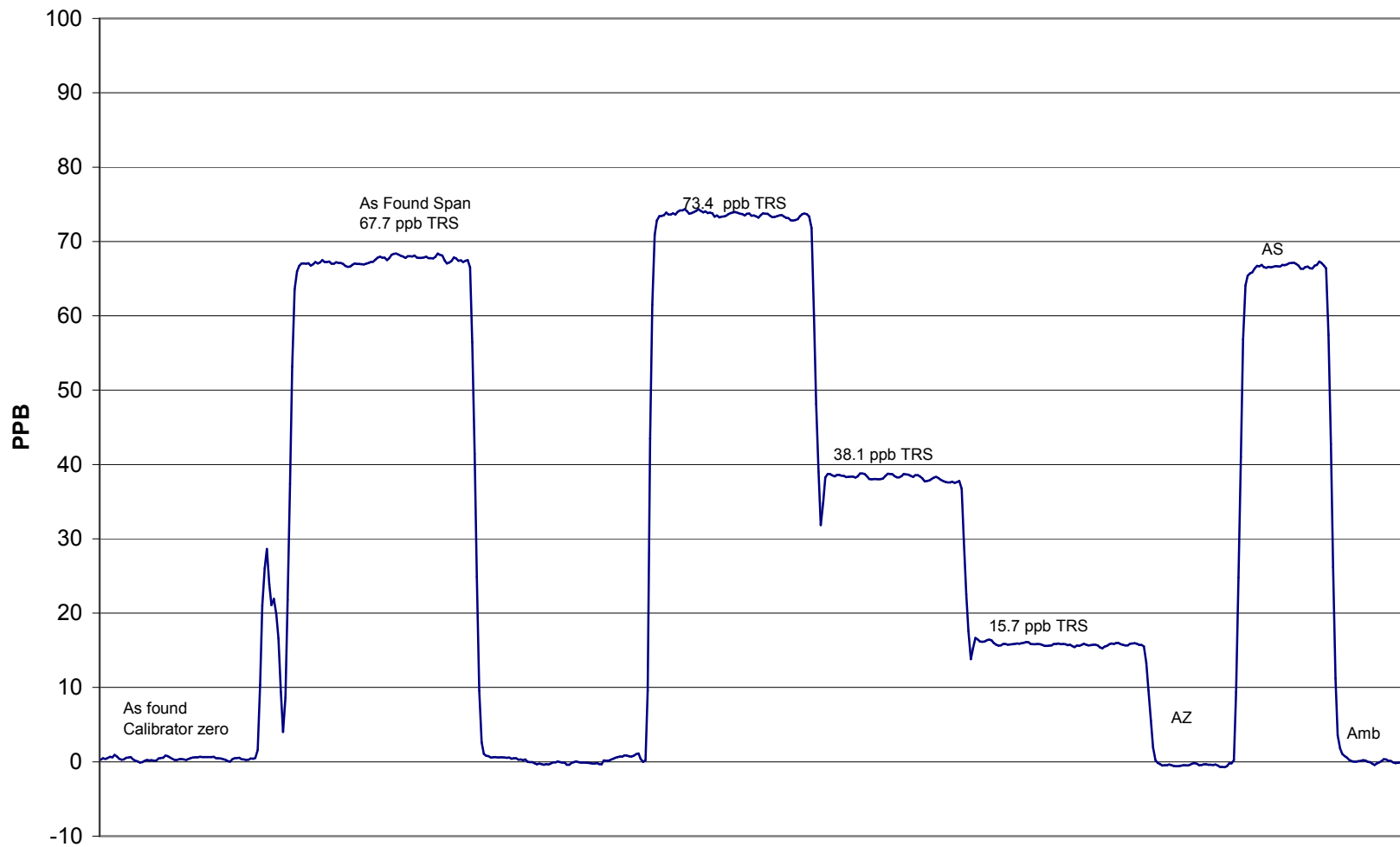


THC Calibration



December 11, 2006

TRS Calibration



December 18, 2006

Calibration ReportParameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	December 18, 2006	Previous Calibration	October 26, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	15:56	End Time (MST)	18:00
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.68	SLPM
Filter Load	29	%	15	%
Ko Factor	13020		13020	
Temperature	3.88	Deg C	7.40	Deg C
Pressure	0.905	ATM	0.919	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.01		0.09
zero flow - auxillary	0.0	0.02		0.29
flow recovery - main	45 - 60 Seconds	30.00	45 - 60 Seconds	30.00
flow recovery - aux	46 - 60 Seconds	48.00	46 - 60 Seconds	48.00
Temperature	measured	4.3	+/- 1.0 Deg C	4.3
Pressure	measured	0.908	+/- 1.5% ΔATM	0.908
Total Flow	16.67 SLPM	17.51		17.30
Main Flow	13.67 SLPM	14.37	+/- 1.0 SLPM	14.21
Auxillary Flow	3.0 SLPM	3.139	+/- 0.2 SLPM	3.080
Leak Check - main	0.0		<0.15 SLPM	0.14
Leak Check - aux	0.0		<0.15 SLPM	0.29
Ko Factor (w/o filter)	measured	337.807	filter weight (g)	0.11423
Ko Factor (w/ filter)	measured	238.450	% Ko difference	0.58%

Notes: New bypass filter.
New mass filter.
Adjusted flows.

Calibration Performed By: Dawn Ewan

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	December 5, 2006	Previous Calibration	November 2, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:12	End Time (MST)	15:42
Barometric Pressure	27.9 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.948059	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.951615	Calculated slope	0.985657
Calculated intercept	0.600471	Calculated intercept	1.588956
Analyzer make	TECO	Analyzer serial #	43A-25573-221

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	475	ccm	475	ccm
Lamp Voltage	830	mv	797	mv
Vacuum	22	" Hg	21.2	" Hg
Span Pot	685		490	
Zero Pot	90		100	

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)
zero	2393.9	0.0	0.0	N/A
2525	2393.9	310.3	314.0	0.9882
5000	4740.3	156.7	156.7	1.0001
9100	8627.3	86.1	84.0	1.0249
zero	2370.1	0.0	1.3	As Found Zero
2500	2370.1	313.4	334.0	As Found Span
Average Correction Factor				1.0044

Calculated value of As Found Response: 317.210 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.9	ppm	1.5	ppm
Auto span	160.4	ppm	136.9	ppm

Notes: Adjusted span and zero.Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

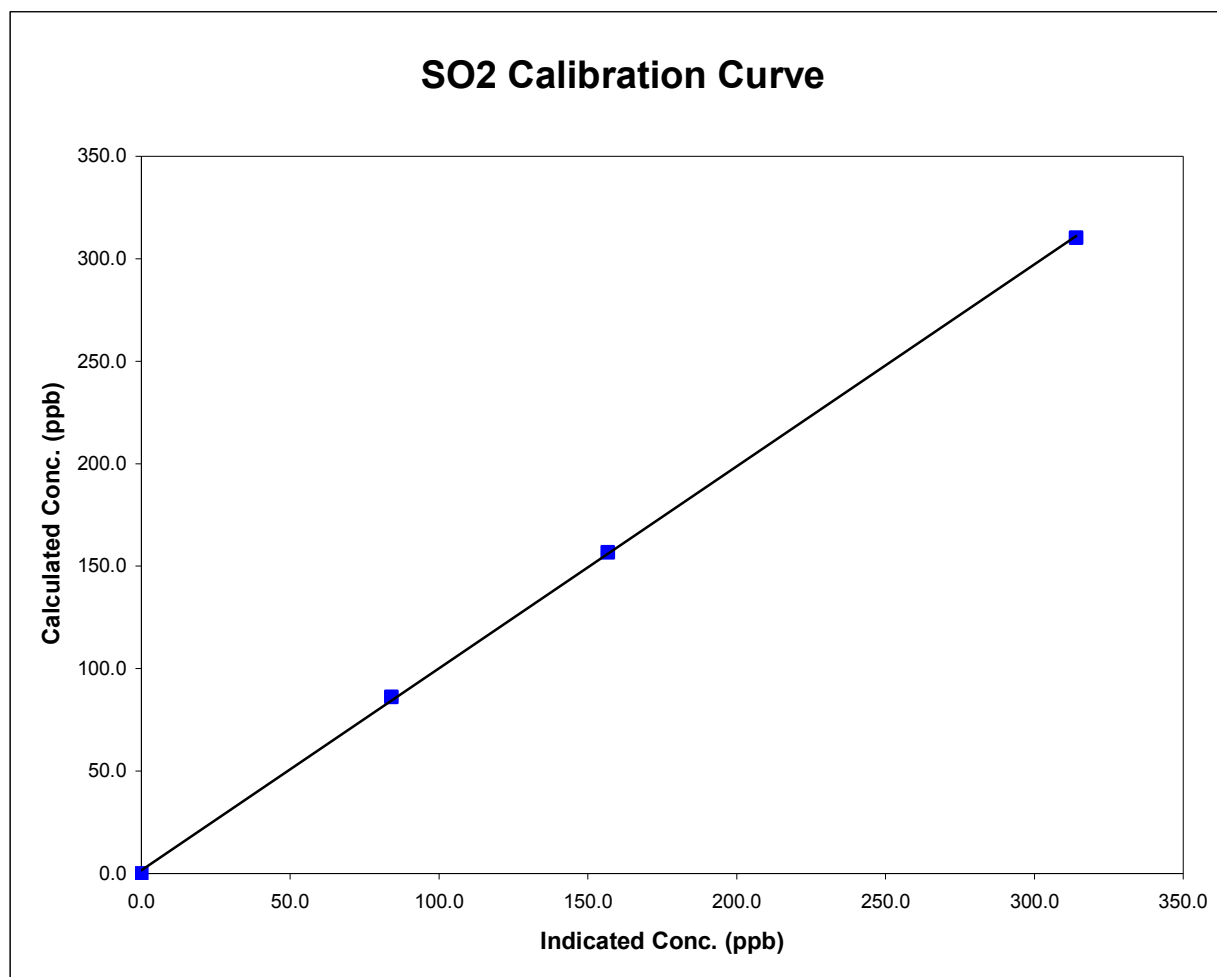


Station Information

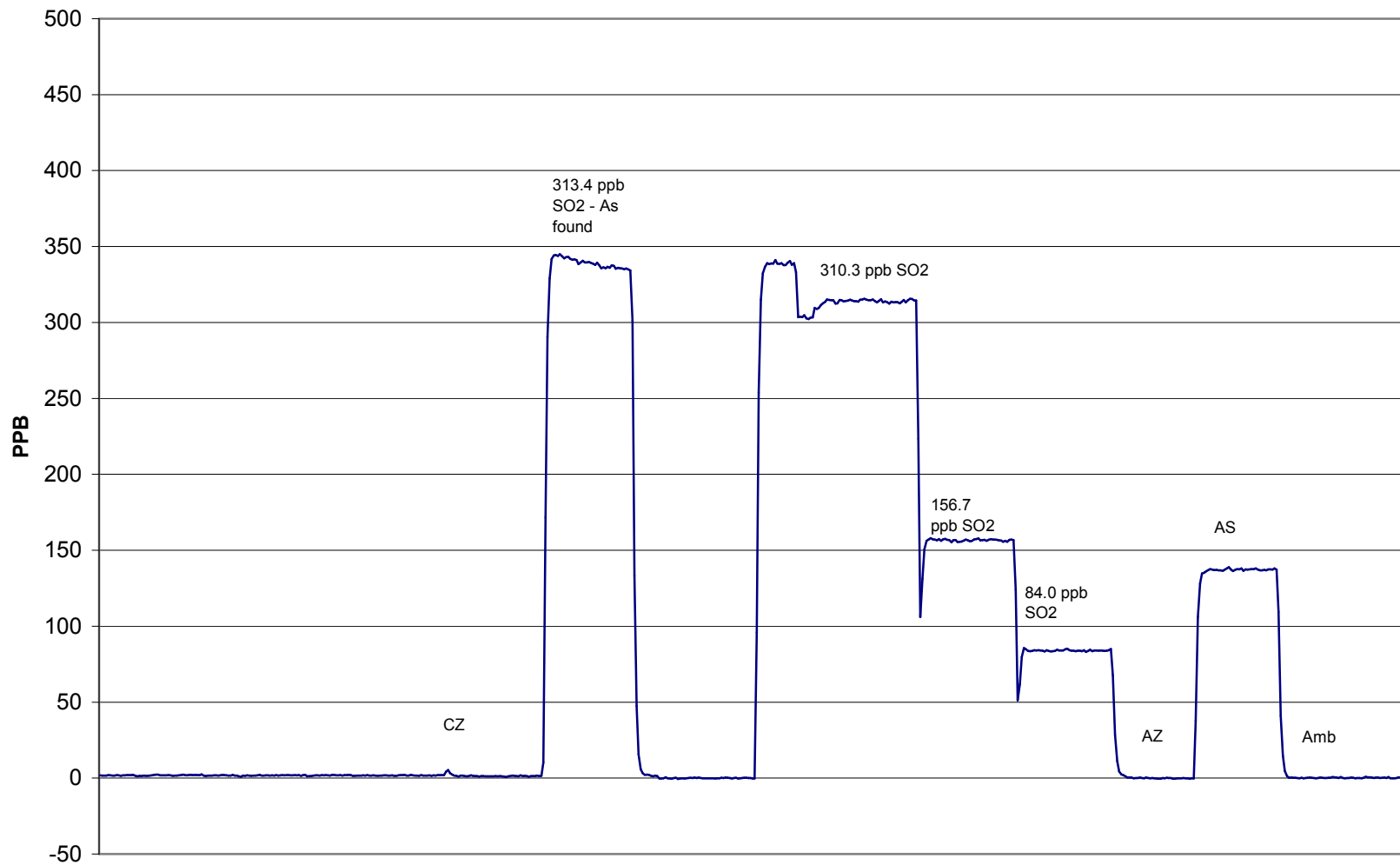
Calibration Date	December 5, 2006	Previous Calibration	November 2, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:12	End Time (MST)	15:42
Analyzer make/model	TECO	Analyzer serial #	43A-25573-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
310.3	314.0	0.9882	Correlation Coefficient	0.999874
156.7	156.7	1.0001		
86.1	84.0	1.0249	Slope	0.985657
			Intercept	1.588956

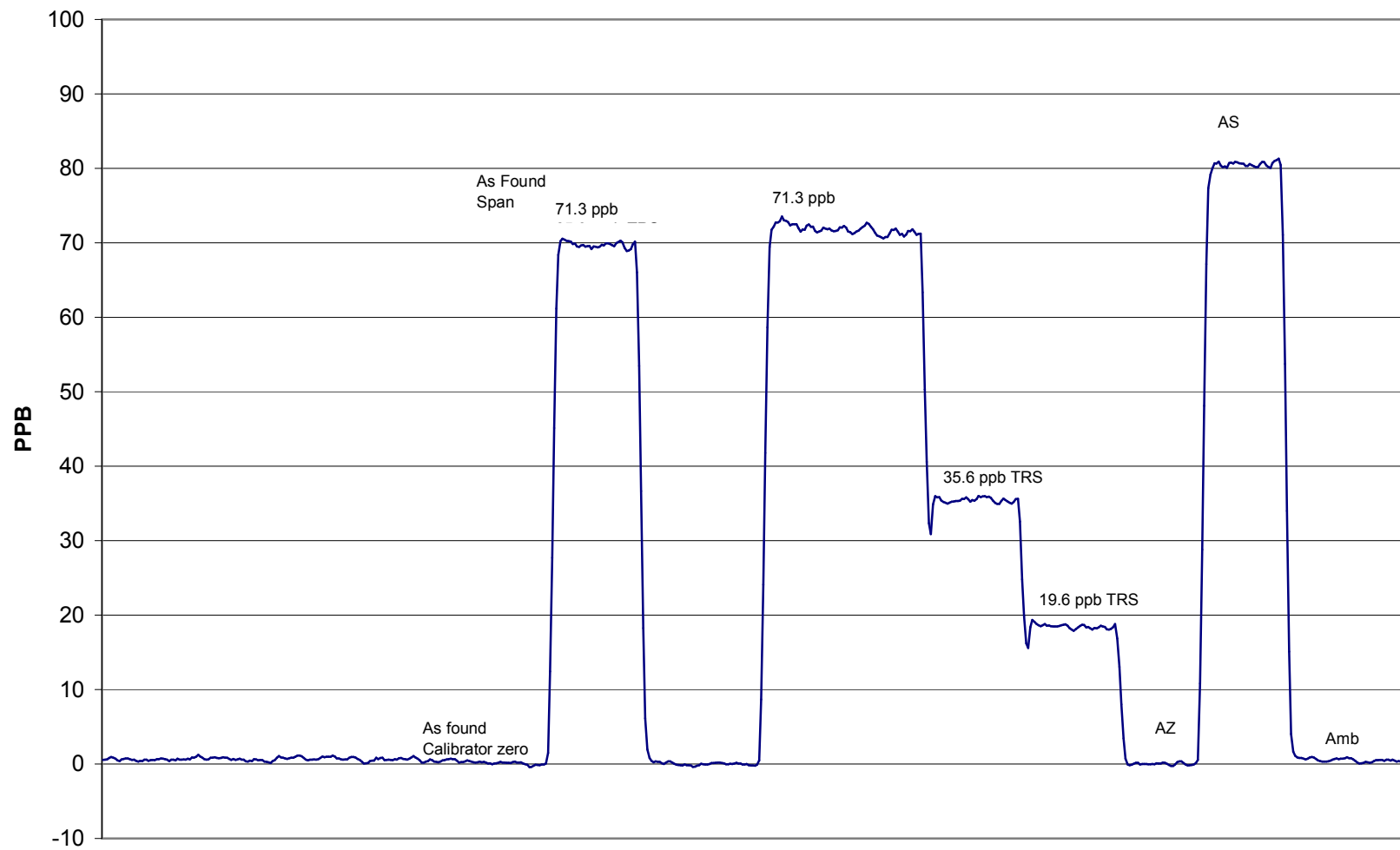


SO2 Calibration



December 5, 2006

TRS Calibration



December 5, 2006

Calibration Report

Parameter PM2.5Air Monitoring Network PASZA

Station Information

Calibration Date	December 5, 2006	Previous Calibration	November 2, 2006
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)	14:09	End Time (MST)	15:30
Barometric Pressure	0.934 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	52	%	14	%
Ko Factor	10124		10124	
Temperature	2.7	Deg C	7.4	Deg C
Pressure	0.932	ATM	0.924	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	0.10		0.10
flow recovery - main	45 - 60 Seconds	35.0	45 - 60 Seconds	35.0
flow recovery - aux	46 - 60 Seconds	45.0	46 - 60 Seconds	45.0
Temperature	measured	3.3	+/- 1.0 Deg C	3.3
Pressure	measured	0.933	+/- 1.5% ΔATM	0.933
Total Flow	16.67 SLPM	16.65		16.65
Main Flow	13.67 SLPM	13.69	+/- 1.0 SLPM	13.69
Auxillary Flow	3.0 SLPM	2.963	+/- 0.2 SLPM	2.963
Leak Check - main	0.0		<0.15 SLPM	0.08
Leak Check - aux	0.0		<0.15 SLPM	0.21
Ko Factor (w/o filter)	measured	307.269	filter weight (g)	0.11012
Ko Factor (w/ filter)	measured	216.519	% Ko difference	-1.28%

Notes: Mass filter check.Calibration Performed By: Dawn Ewan

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	<u>December 20, 2006</u>	Previous Calibration	<u>November 29, 2006</u>
Station Number	<u>3</u>	Station Location	<u>Smoky Heights</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	<u>19:50</u>	End Time (MST)	<u>0:09</u>
Barometric Pressure	<u>27.74</u> inches Hg	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>VICI Metronics</u>	Serial Number	<u>111-1695</u>
Perm-tube Conc	<u>1,946</u> ng/min	Perm-tube Expiry Date	<u>8/6/2006</u>
Correction factor	<u>0.942961</u>	Perm-tube Cert #	<u>19-25218</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45274</u>
DACS voltage range	<u>0 - 10 volt</u>	DACS channel #	<u>4</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.981486</u>	Calculated slope	<u>0.997149</u>
Calculated intercept	<u>4.143742</u>	Calculated intercept	<u>1.299373</u>
Analyzer make	<u>API 102A</u>	Analyzer serial #	<u>212</u>

	before		after	
Concentration range	<u>500</u>	<u>ppb</u>	<u>500</u>	<u>ppb</u>
Sample Flow	<u>579</u>	<u>ccm</u>	<u>579</u>	<u>ccm</u>
UV Lamp Voltage	<u>3759</u>	<u>mv</u>	<u>3759</u>	<u>mv</u>
Lamp Ratio	<u>109</u>	<u>%</u>	<u>109</u>	<u>%</u>
Rx Cell Temp	<u>51.4</u>	<u>Deg C</u>	<u>51.4</u>	<u>Deg C</u>
PMT Temp	<u>6.9</u>	<u>Deg C</u>	<u>6.9</u>	<u>Deg C</u>
I/S Temp	<u>45</u>	<u>Deg C</u>	<u>45</u>	<u>Deg C</u>
Slope	<u>1.239</u>		<u>1.239</u>	
Intercept	<u>39.1</u>		<u>39.1</u>	

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)
zero	<u>2357.4</u>	<u>0.0</u>	<u>-0.9</u>	<u>N/A</u>
2500	<u>2357.4</u>	<u>315.1</u>	<u>314.4</u>	<u>1.0022</u>
5050	<u>4762.0</u>	<u>156.0</u>	<u>156.5</u>	<u>0.9970</u>
8990	<u>8477.2</u>	<u>87.6</u>	<u>85.2</u>	<u>1.0290</u>
zero	<u>2786.4</u>	<u>0.0</u>	<u>-10.7</u>	<u>As Found Zero</u>
2955	<u>2786.4</u>	<u>266.6</u>	<u>258.2</u>	<u>As Found Span</u>
Average Correction Factor				<u>1.0094</u>

Calculated value of As Found Response: 268.117 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	<u>3.5</u>	<u>ppm</u>	<u>0.9</u>	<u>ppm</u>
Auto span	<u>217.5</u>	<u>ppm</u>	<u>206.8</u>	<u>ppm</u>

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

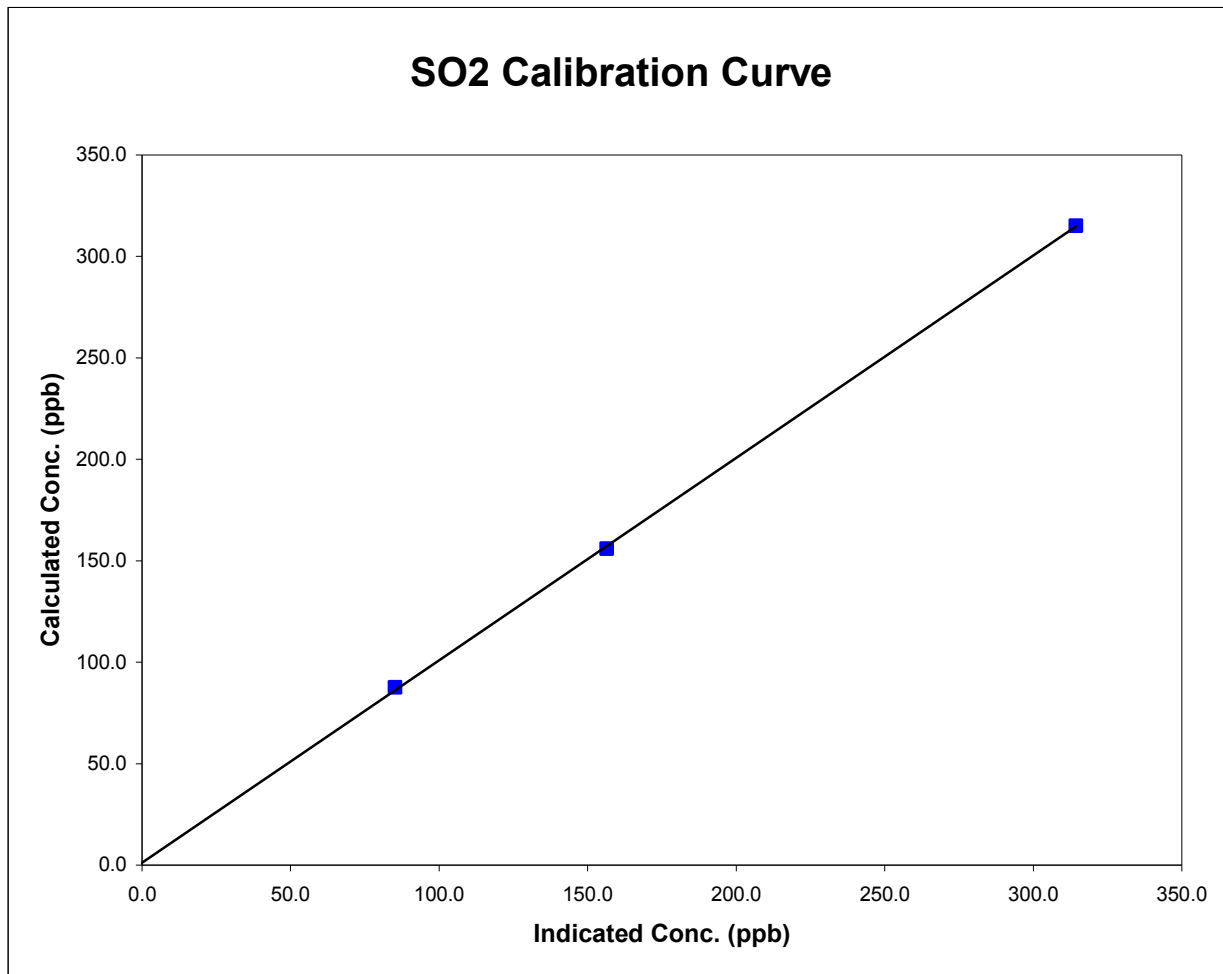


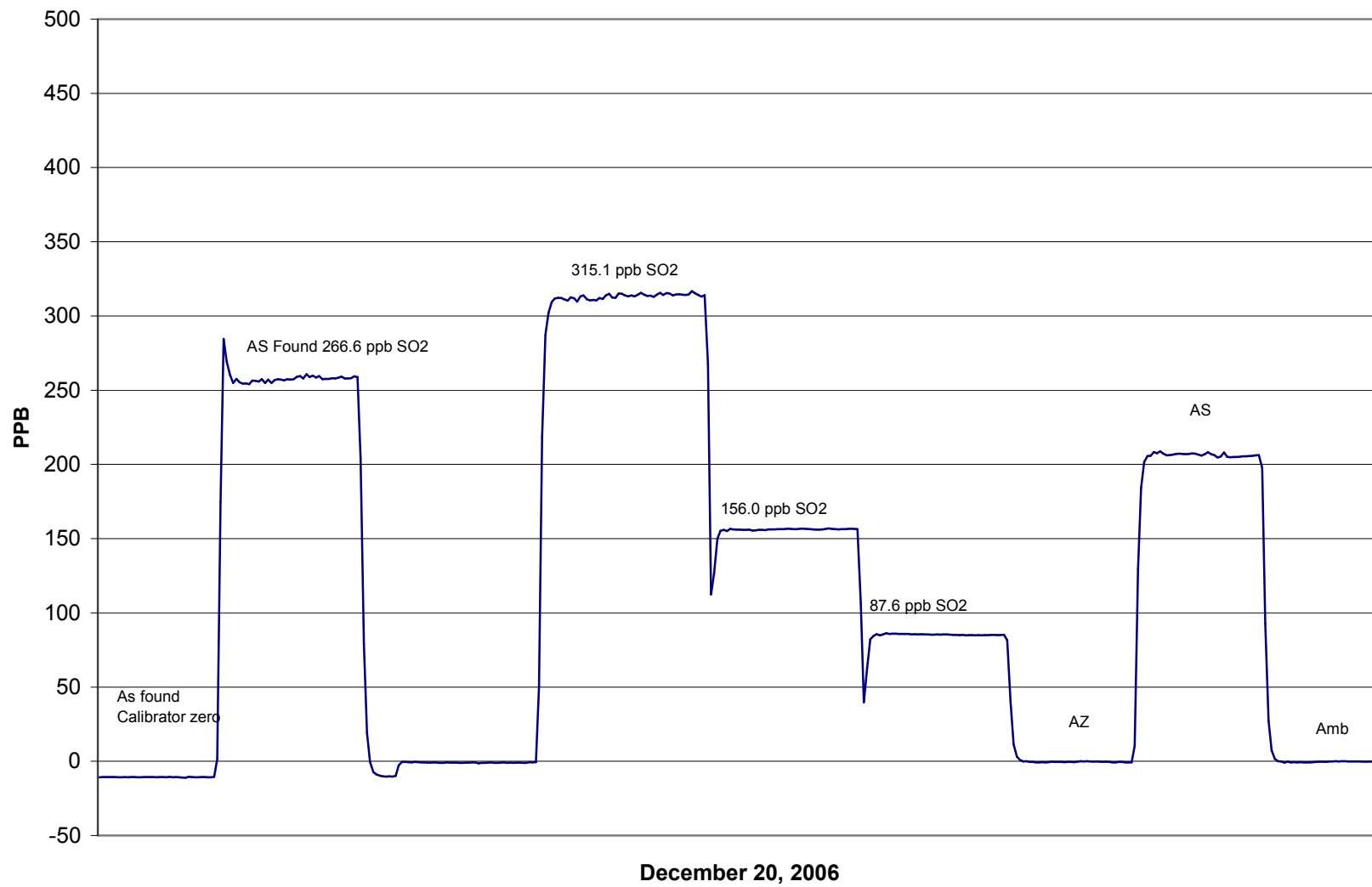
Station Information

Calibration Date	December 20, 2006	Previous Calibration	November 29, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	19:50	End Time (MST)	0:09
Analyzer make/model	API 102A	Analyzer serial #	212

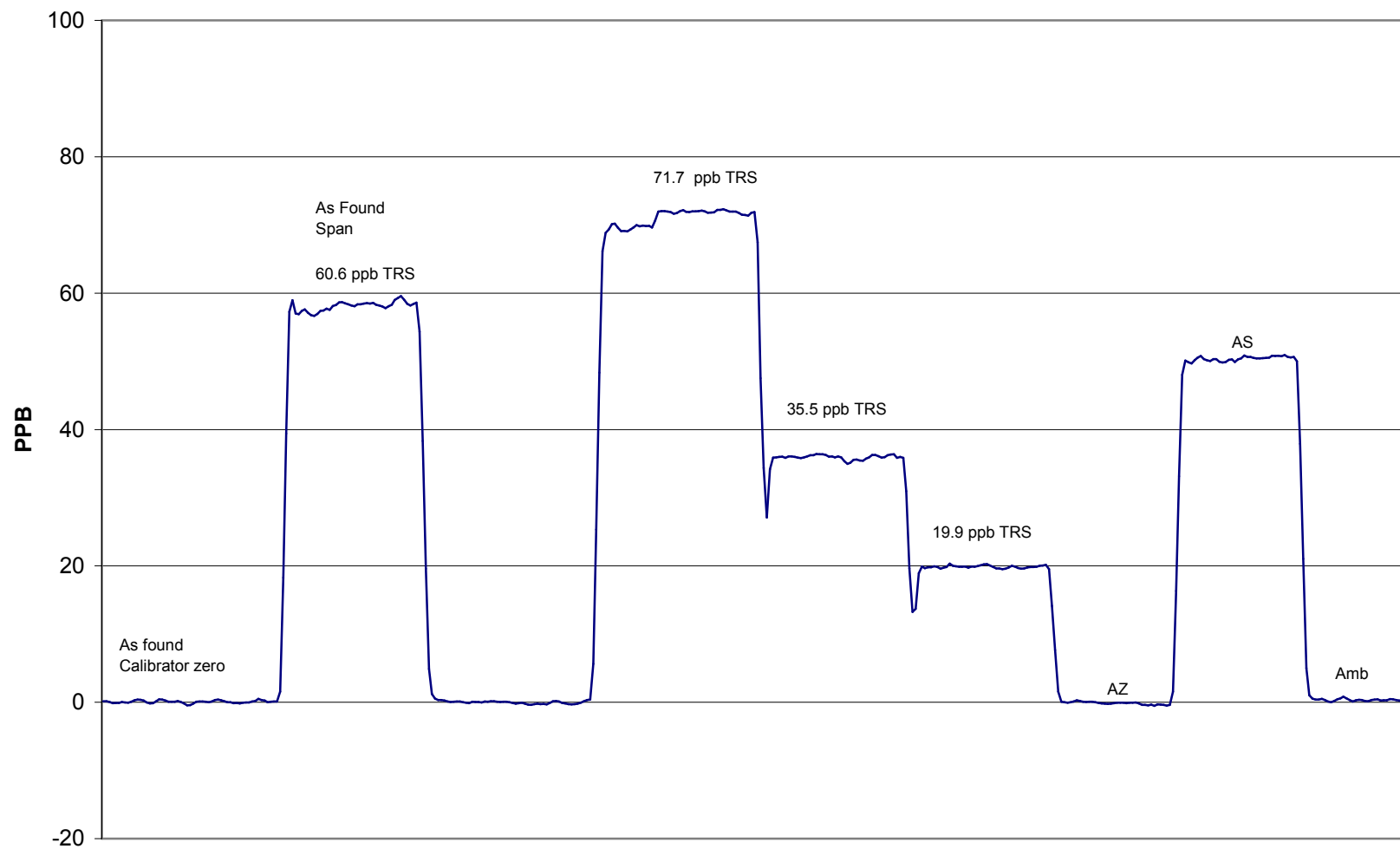
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.9	N/A		
315.1	314.4	1.0022	Correlation Coefficient	0.999926
156.0	156.5	0.9970		
87.6	85.2	1.0290	Slope	0.997149
			Intercept	1.299373



SO₂ Calibration

TRS Calibration



December 20, 2006

Calibration ReportParameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	December 20, 2006	Previous Calibration	November 29, 2006
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	22:56	End Time (MST)	14:45
Barometric Pressure	0.927 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	13.68	SLPM	13.67	SLPM
Filter Load	30	%	16	%
Ko Factor	12122		12122	
Temperature	-2.9	Deg C	-2.9	Deg C
Pressure	0.912	ATM	0.912	ATM
Main Fadj	0.900		0.900	
Aux Fadj	0.900		0.900	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.10		0.10
zero flow - auxillary	0.0	0.22		0.28
flow recovery - main	45 - 60 Seconds	30	45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds	45	46 - 60 Seconds	45
Temperature	measured	-2.9	+/- 1.0 Deg C	-2.9
Pressure	measured	0.912	+/- 1.5% ΔATM	0.912
Total Flow	16.67 SLPM	15.60		17.25
Main Flow	13.67 SLPM	12.80	+/- 1.0 SLPM	14.14
Auxillary Flow	3.0 SLPM	2.805	+/- 0.2 SLPM	3.106
Leak Check - main	0.0		<0.15 SLPM	
Leak Check - aux	0.0		<0.15 SLPM	
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes:

Calibration Performed By: Dawn Ewan

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	December 12, 2006	Previous Calibration	November 1, 2006
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:50	End Time (MST)	17:10
Barometric Pressure	0.889 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.003322	Calculated slope	0.998103
Calculated intercept	-0.266499	Calculated intercept	-0.165506
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.34	ppb	2.24	ppb
Coefficient	0.853		0.863	
Lamp Voltage	914.0	Volts	910.0	Volts
Chamber Temp	43.1	Deg C	43.1	Deg C
Sample Flow	605	ccm	604	ccm

Calibration Data

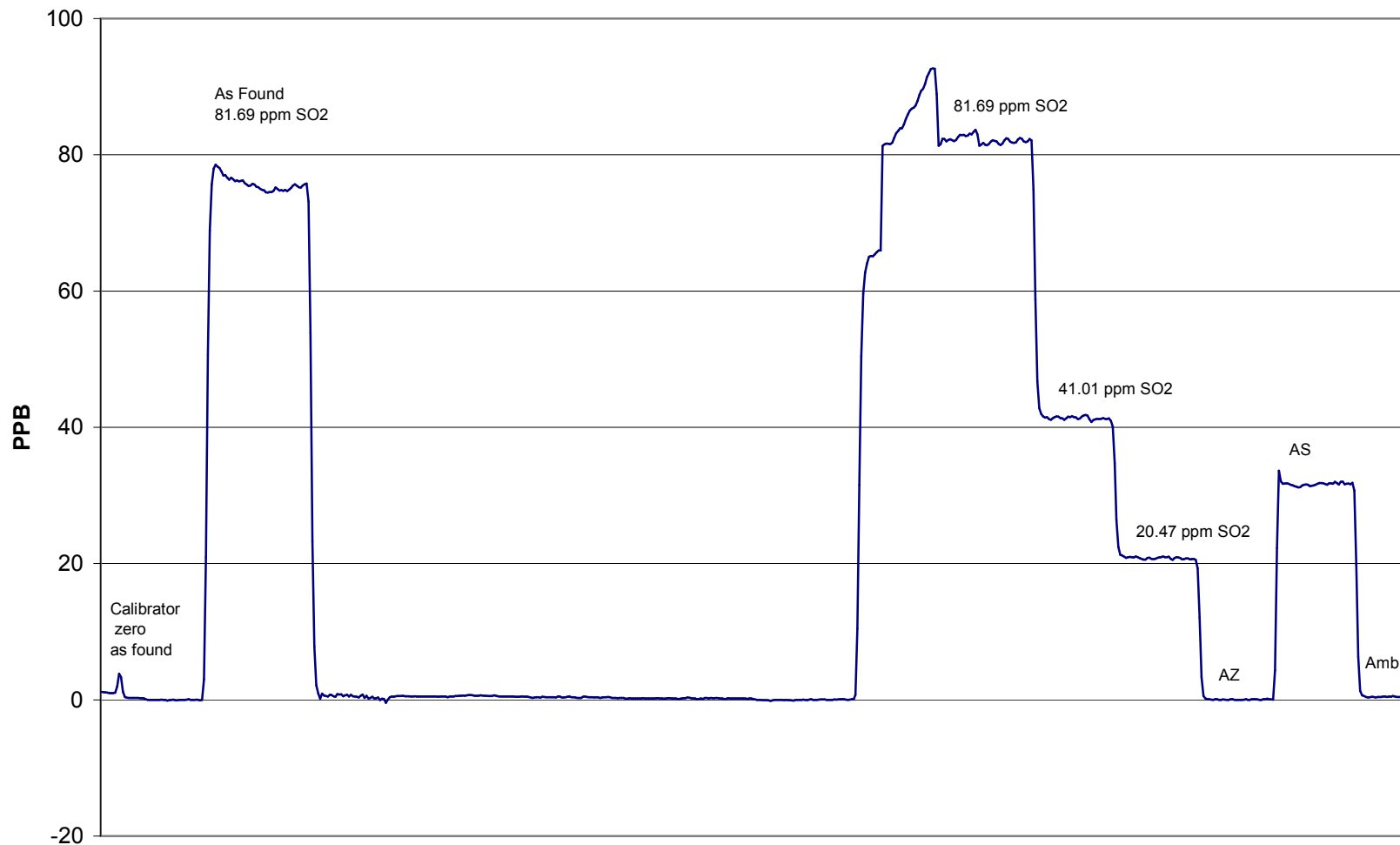
Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.00	0.00	0.03	N/A
4996	39.94	81.69	81.93	0.9971
4996	19.97	41.01	41.36	0.9914
4996	9.95	20.47	20.79	0.9849
4996	0.00	0.00	-0.01	As Found Zero
4996	39.94	81.69	75.02	As Found Span
Average Correction Factor				0.9912

Calculated value of As Found Response: 75.019 ppm Percent Change of As Found: 8.2%

	before calibration		after calibration	
Auto zero	-0.27	ppm	-0.12	ppm
Auto span	27.67	ppm	31.49	ppm

Notes: Installed new temperature control board for the chamber.
Adjusted zero and span.Calibration Performed By: Dawn Ewan

SO₂ Calibration



December 12, 2006

Calibration Report

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



Station Information

Calibration Date	<u>December 12, 2006</u>	Previous Calibration	<u>November 21, 2006</u>
Station Number	<u>4</u>	Station Location	<u>Beaverlodge</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>11:10</u>	End Time (MST)	<u>15:09</u>
Barometric Pressure	<u>0.912</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2488</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>Nov 22/06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.002202	0.998524	0.998565
	Data Offset	-0.327911	1.089197	1.297218
After	Data Slope	0.993835	0.995568	0.998264
	Data Offset	-0.413639	0.329343	-0.030768
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.4	ppb	1.4	mV
NOx background	1.9	ppb	1.9	mV
NO coefficient	1.047		1.050	
NOx coefficient	0.995		0.992	
Box Temp	30.3	ccm	35.2	ccm
Chamber Temp	49.1	Deg C	49.4	Deg C
Cooler Temp	-2.2	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	799.0	LPM	801.0	LPM
Ozonator Flow	0.086	LPM	0.084	LPM
Pressure	167.0	inches HG	165.9	inches Hg

Notes: Adjusted span and zero.

Calibration Report

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



Station Information

Calibration Date: December 12, 2006 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	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.4	N/A	N/A	
1	4996	79.86	794.5	791.4	3.1	797.9	792.7	4.3	0.9958	0.9984	
2	4996	39.98	400.9	399.3	1.6	401.8	400.0	1.2	0.9977	0.9982	
3	4996	20.00	201.4	200.6	0.8	202.3	201.4	0.4	0.9954	0.9959	
AFZ	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.4	0.0000	0.0000	
AFS	4996	79.86	794.5	791.4	3.1	797.9	792.7	4.3	0.9958	0.9984	
									Average Correction Factor	0.9963	0.9975

As Found Concentrations: NO_x= 799.3 NO= 794.3 As Found Percent Change NO_x= 0.6% NO= 0.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

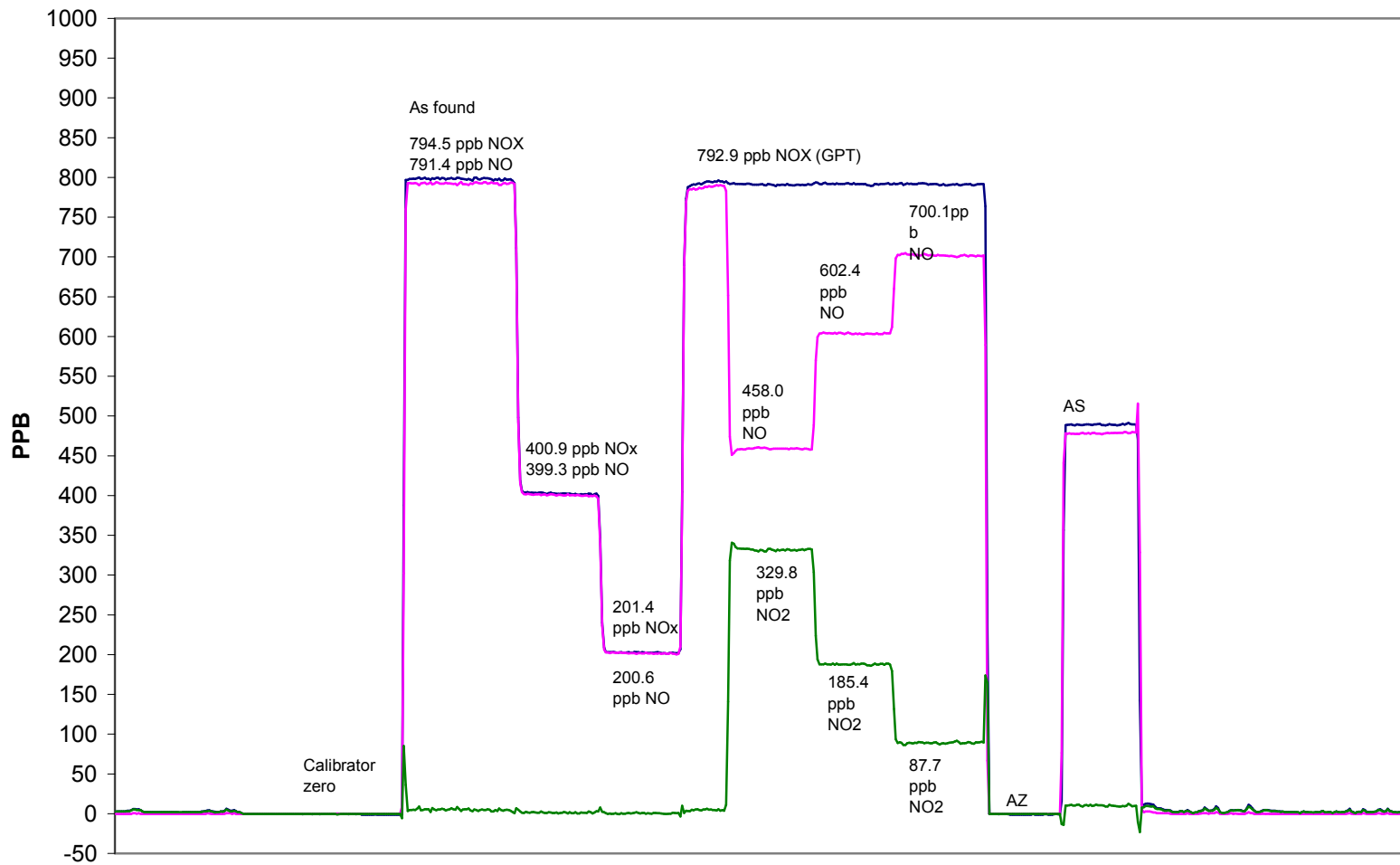
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	787.8	788.0	-0.2	794.8	789.4	4.6	0.9913	0.9982	N/A	N/A	
350	787.8	458.0	329.8	790.6	458.8	331.7	0.9965	0.9982	0.9945	100.6%	
200	787.8	602.4	185.4	791.4	603.5	187.9	0.9955	0.9982	0.9872	101.3%	
100	787.8	700.1	87.7	791.0	701.4	89.3	0.9960	0.9982	0.9828	101.8%	
							Average Correction Factor	0.9960	0.9982	0.9881	101.2%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.0	-0.7	1.0	ppb	-0.7	-0.7	-0.3	ppb
Auto span	494.8	6.3	487.8	ppb	487.5	9.3	478.1	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



December 12, 2006

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

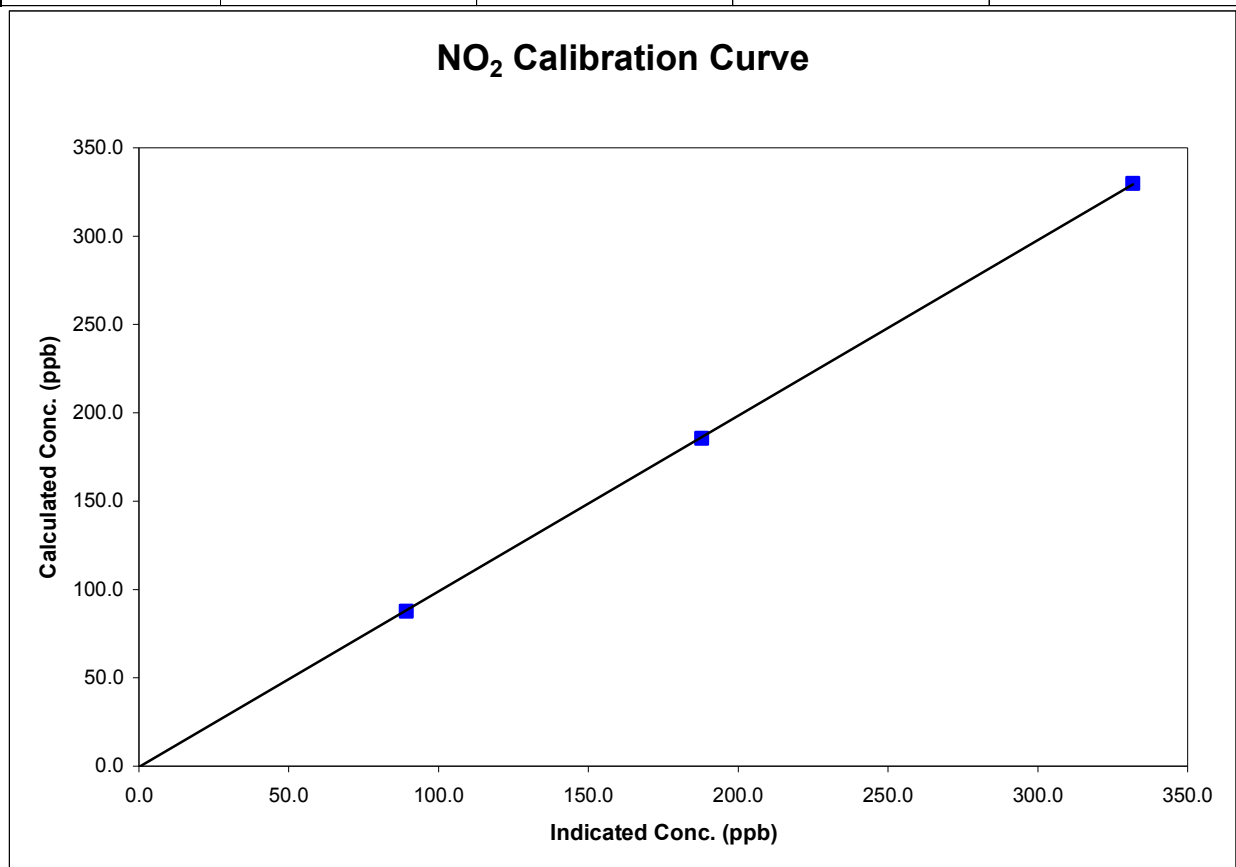


Station Information

Calibration Date	December 12, 2006	Previous Calibration	November 21, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:10	End Time (MST)	15:09
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	-0.4	0.0000	Correlation Coefficient	0.999966
329.8	331.7	0.9945		
185.4	187.9	0.9872		
87.7	89.3	0.9828		
			Slope	0.993835
			Intercept	-0.413639



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

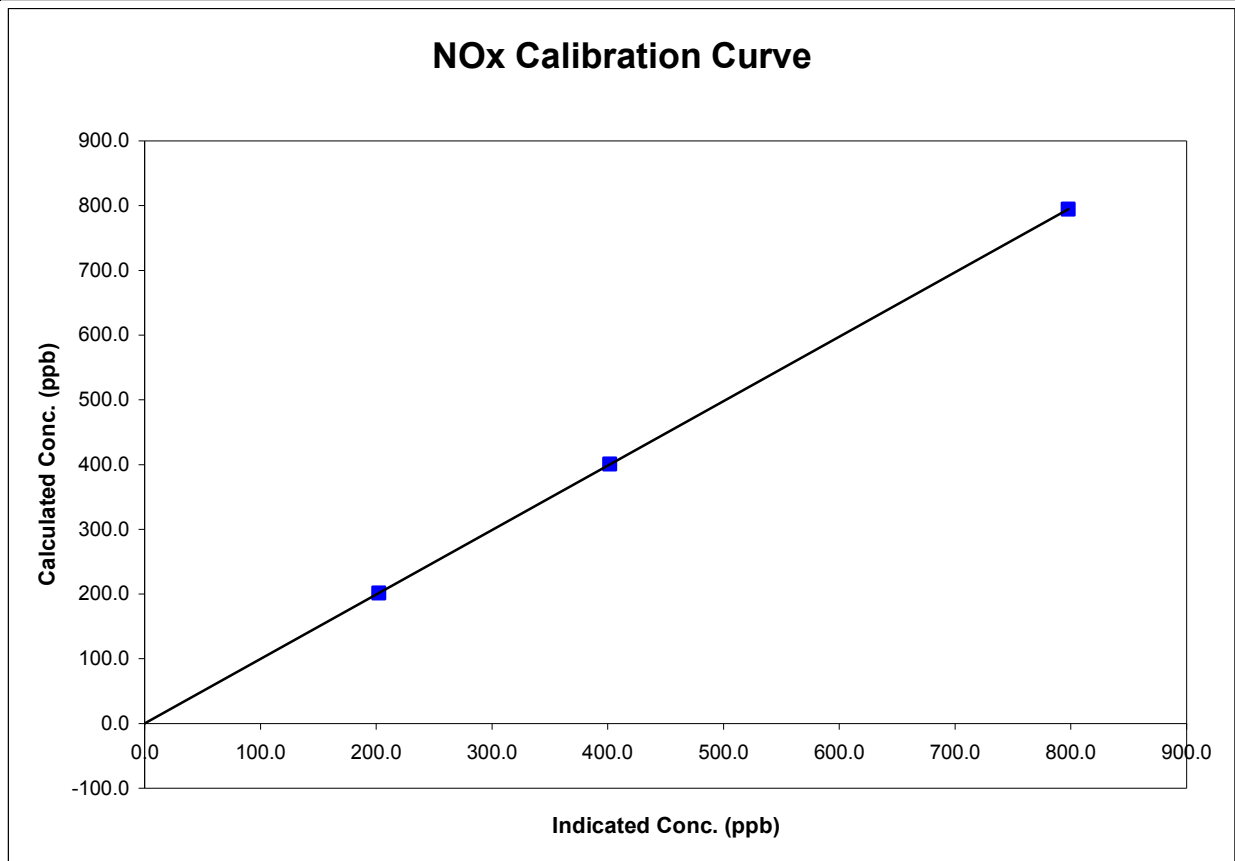


Station Information

Calibration Date	December 12, 2006	Previous Calibration	November 21, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:10	End Time (MST)	15:09
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		
794.5	797.9	0.9958	Correlation Coefficient	0.999999
400.9	401.8	0.9977		
201.4	202.3	0.9954	Slope	0.995568
			Intercept	0.329343



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

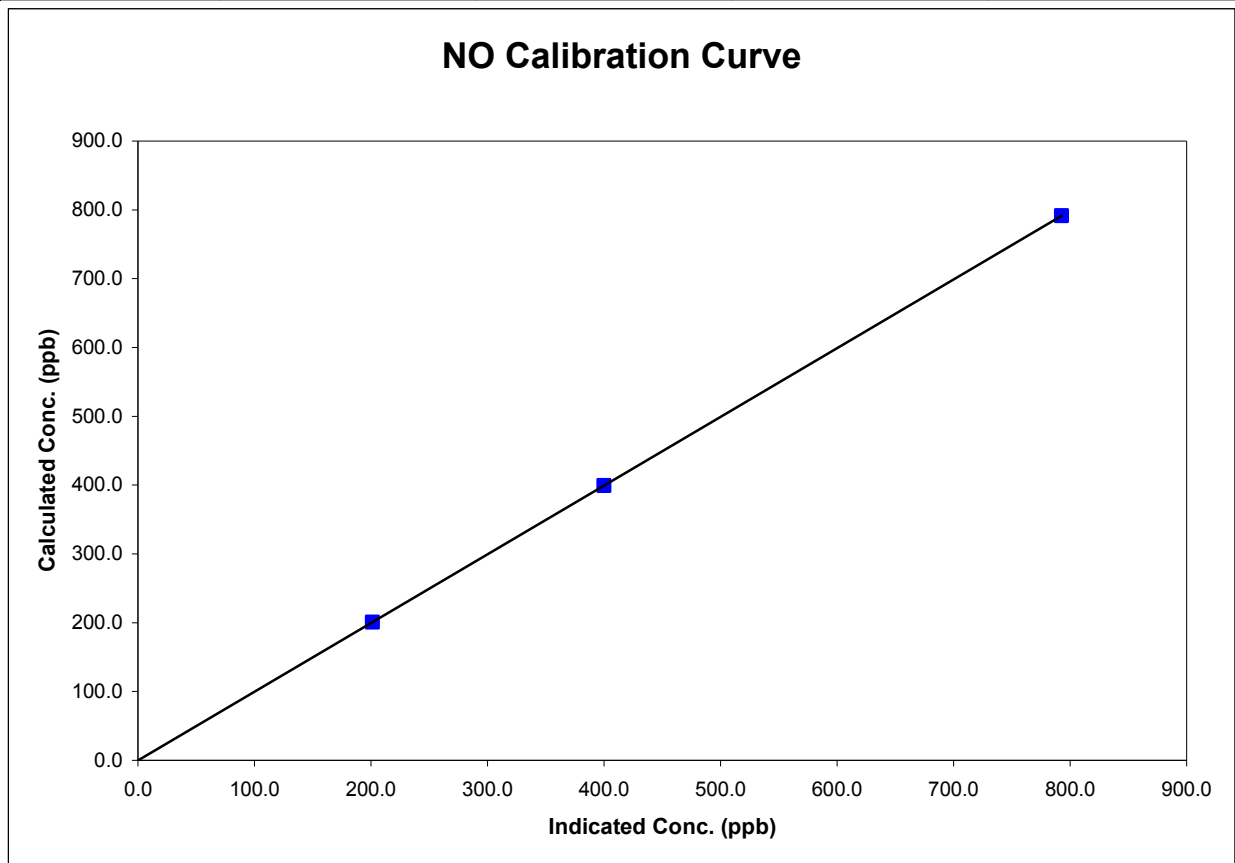


Station Information

Calibration Date	December 12, 2006	Previous Calibration	November 21, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:10	End Time (MST)	15:09
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	Correlation Coefficient	0.999999
791.4	792.7	0.9984		
399.3	400.0	0.9982		
200.6	201.4	0.9959	Slope	0.998264
			Intercept	-0.030768



Calibration Summary

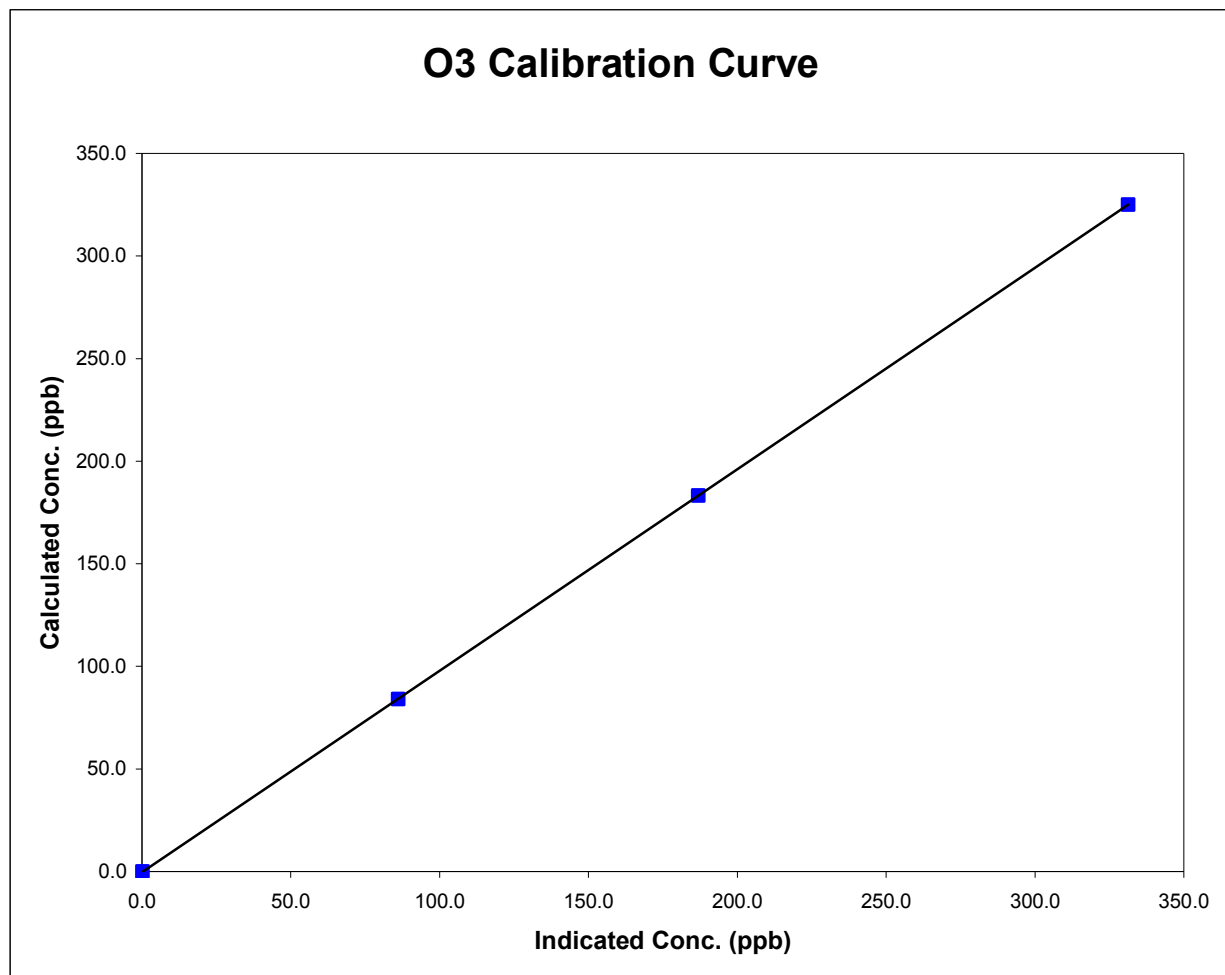
Parameter O3 Air Monitoring Network PASZA 

Station Information

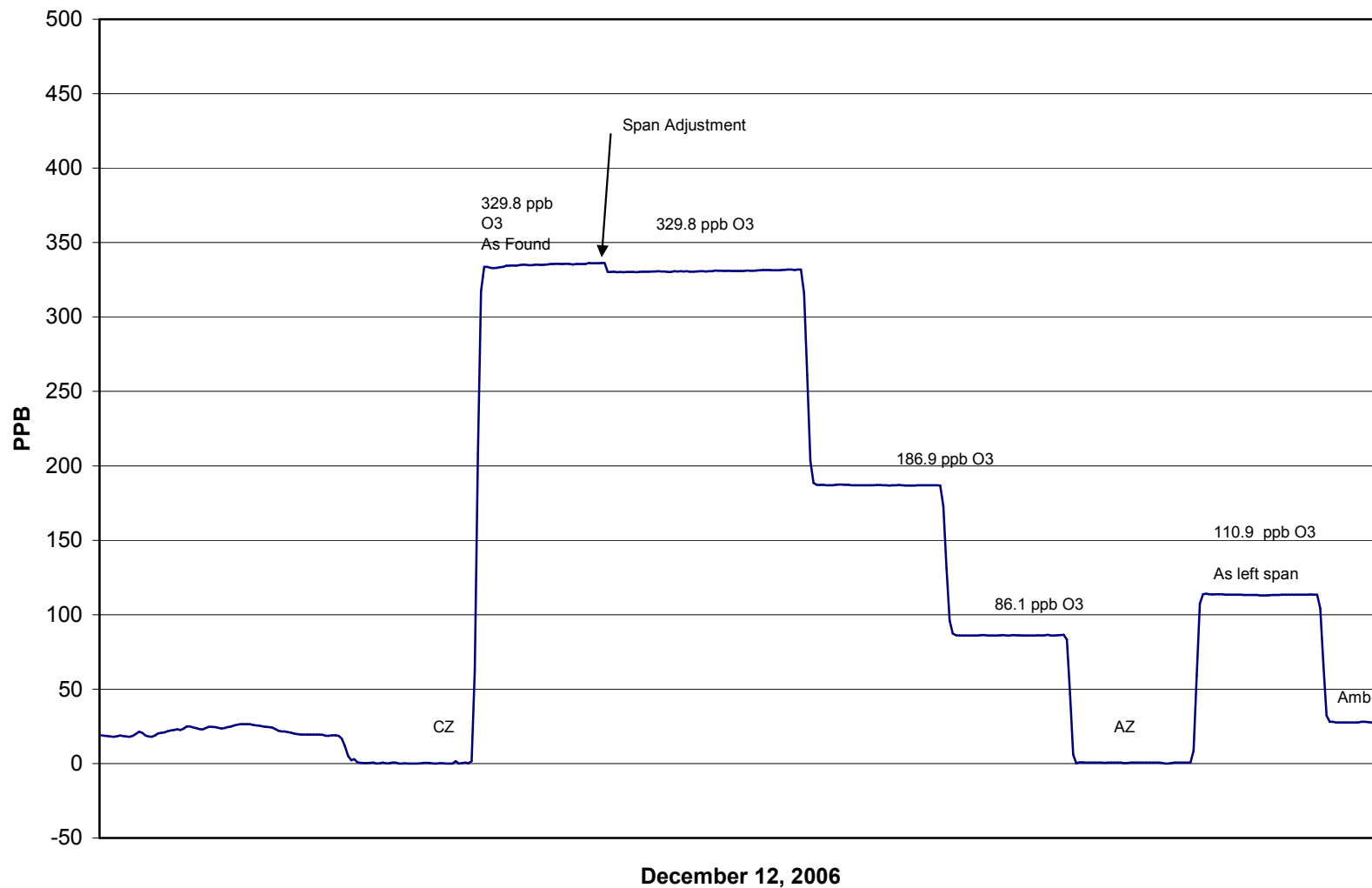
Calibration Date	December 12, 2006	Previous Calibration	November 24, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:36	End Time (MST)	15:14
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
325.0	331.3	0.9809	Correlation Coefficient	0.999999
183.3	186.9	0.9806		
84.0	86.1	0.9752	Slope	0.981917
			Intercept	-0.345875



O3 Calibration



Calibration ReportParameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	December 12, 2006	Previous Calibration	November 21, 2006
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	15:00	End Time (MST)	16:00
Barometric Pressure	0.889 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	10

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	34	%	17	%
Ko Factor	14287		14287	
Temperature	-5.3	Deg C	-5.3	Deg C
Pressure	0.889	ATM	0.889	ATM

Calibration Data

Parameter	Set Point	Teom Reading (As Found)	Tolerance	Teom Reading (After Adjustments)
zero flow - main	0.0	0.09		0.09
zero flow - auxiliary	0.0	0.22		0.22
flow recovery - main	45 - 60 Seconds	36.00	45 - 60 Seconds	36.00
flow recovery - aux	46 - 60 Seconds	49.00	46 - 60 Seconds	49.00
Temperature	measured	-5.5	+/- 1.0 Deg C	-5.5
Pressure	measured	0.889	+/- 1.5% Δ ATM	0.889
Total Flow	16.67 SLPM	16.64		16.64
Auxiliary Flow	13.67 SLPM	13.67	+/- 1.0 SLPM	13.67
Main Flow	3.0 SLPM	2.970	+/- 0.2 SLPM	2.970
Leak Check - main	0.0	0.12	<0.15 SLPM	0.12
Leak Check - aux	0.0	0.25	<0.15 SLPM	0.25
Ko Factor (w/o filter)	measured	350.041	filter weight (g)	0.10931
Ko Factor (w/ filter)	measured	251.280	% Ko difference	0.3%

Notes:

Calibration Performed By: Dawn Ewan

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	December 4, 2006	Previous Calibration	November 17, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:19	End Time (MST)	18:35
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.936162	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.996123	Calculated slope	1.002861
Calculated intercept	-3.356822	Calculated intercept	0.454016
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.8		8.4	
Coefficient	1.131		1.191	
UV Lamp voltage	758	V	760	V
Chamber Temperature	44.7	C	44.7	C
Perm gas Temp	45	C	45	C
Pressure	700.4	"Hg	682.6	"Hg
Sample Flow	501	LPM	491	LPM
Lamp Intensity	34100	Hz	34000	Hz

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)
zero	2340.4	0.0	0.0	N/A
2500	2340.4	317.4	316.5	1.0028
5000	4680.8	158.7	156.7	1.0124
7500	7021.2	105.8	105.2	1.0057
zero	2340.4	0.0	0.0	As Found Zero
2500	2340.4	317.4	301.6	As Found Span
Average Correction Factor				1.0070

Calculated value of As Found Response: 297.139 ppm Percent Change of As Found: 6.4%

	before calibration		after calibration	
Auto zero	-3.7	ppm	0.1	ppm
Auto span	278.7	ppm	302.8	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

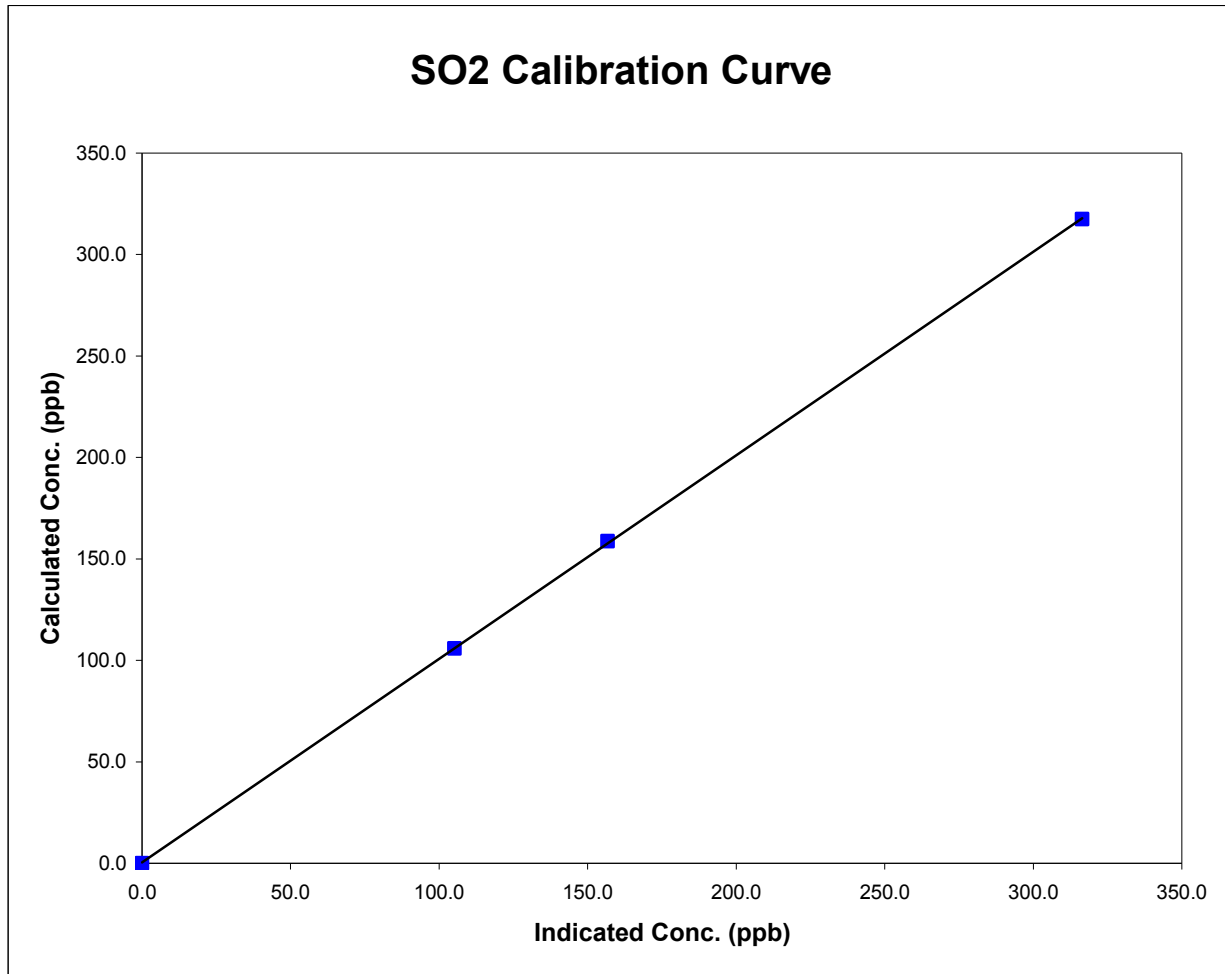


Station Information

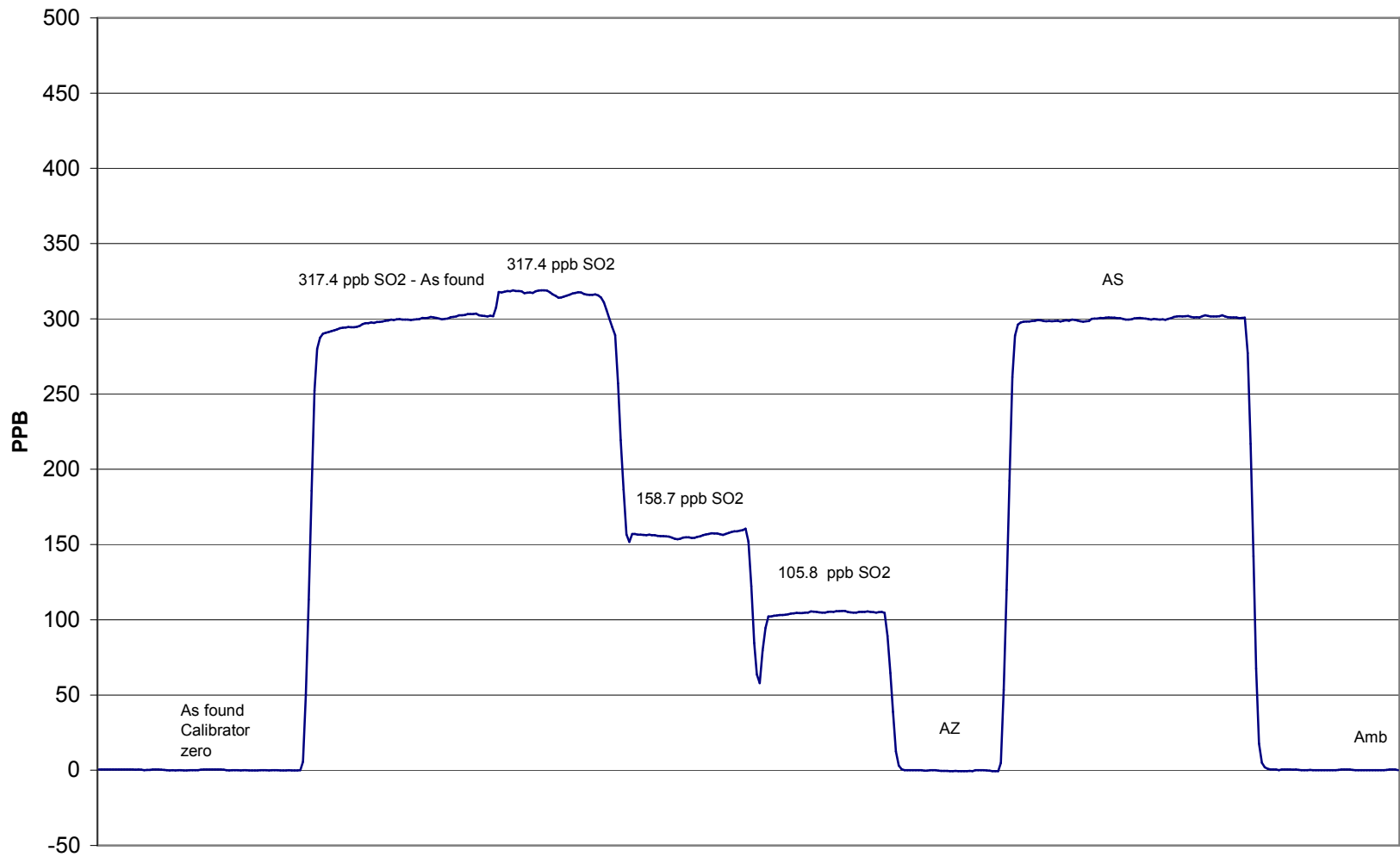
Calibration Date	December 4, 2006	Previous Calibration	November 17, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	15:19	End Time (MST)	18:35
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
317.4	316.5	1.0028	Correlation Coefficient	0.999971
158.7	156.7	1.0124		
105.8	105.2	1.0057		
			Slope	1.002861
			Intercept	0.454016

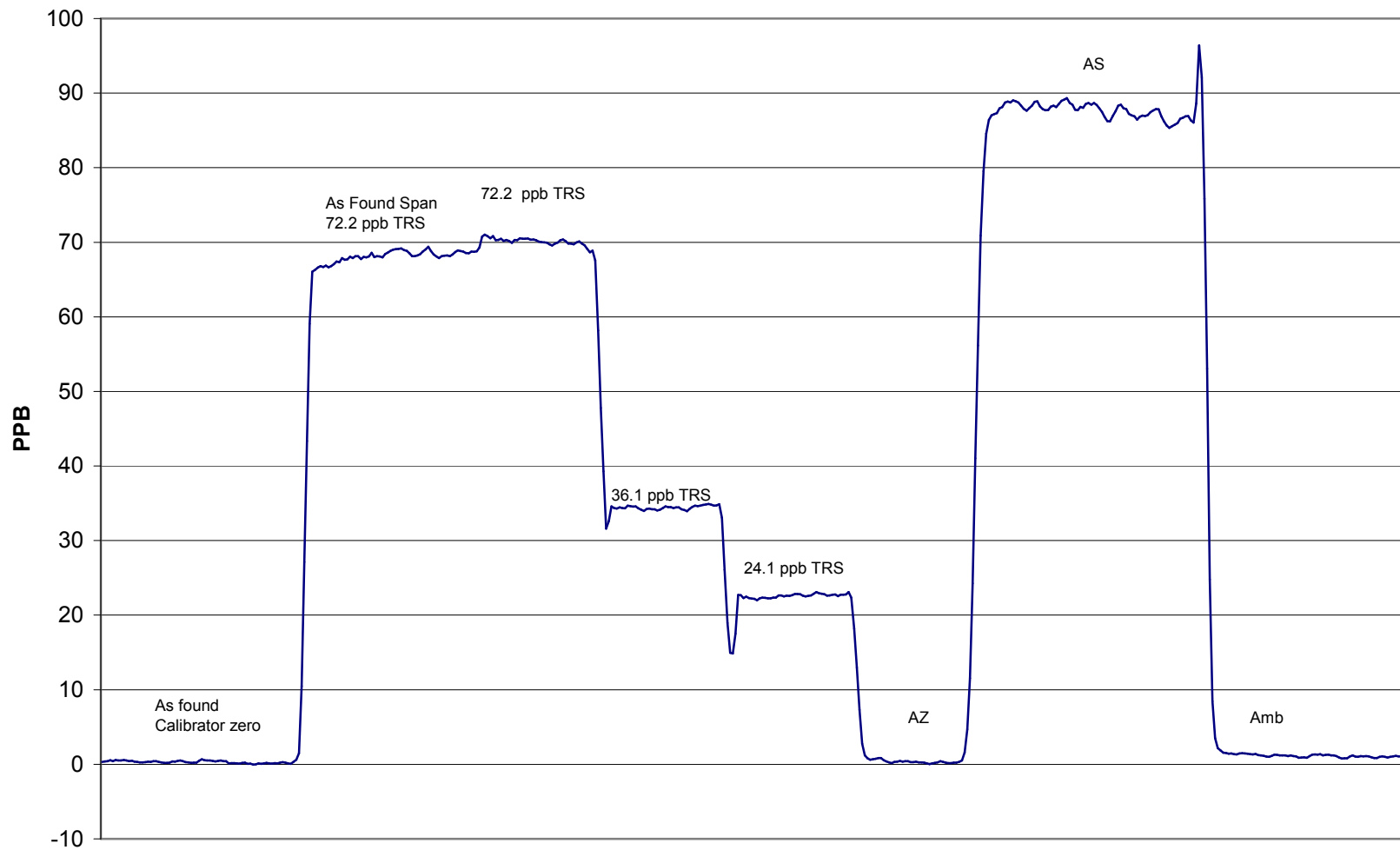


SO2 Calibration



December 4, 2006

TRS Calibration



December 4, 2006

Calibration Summary

Parameter
 Air Monitoring Network

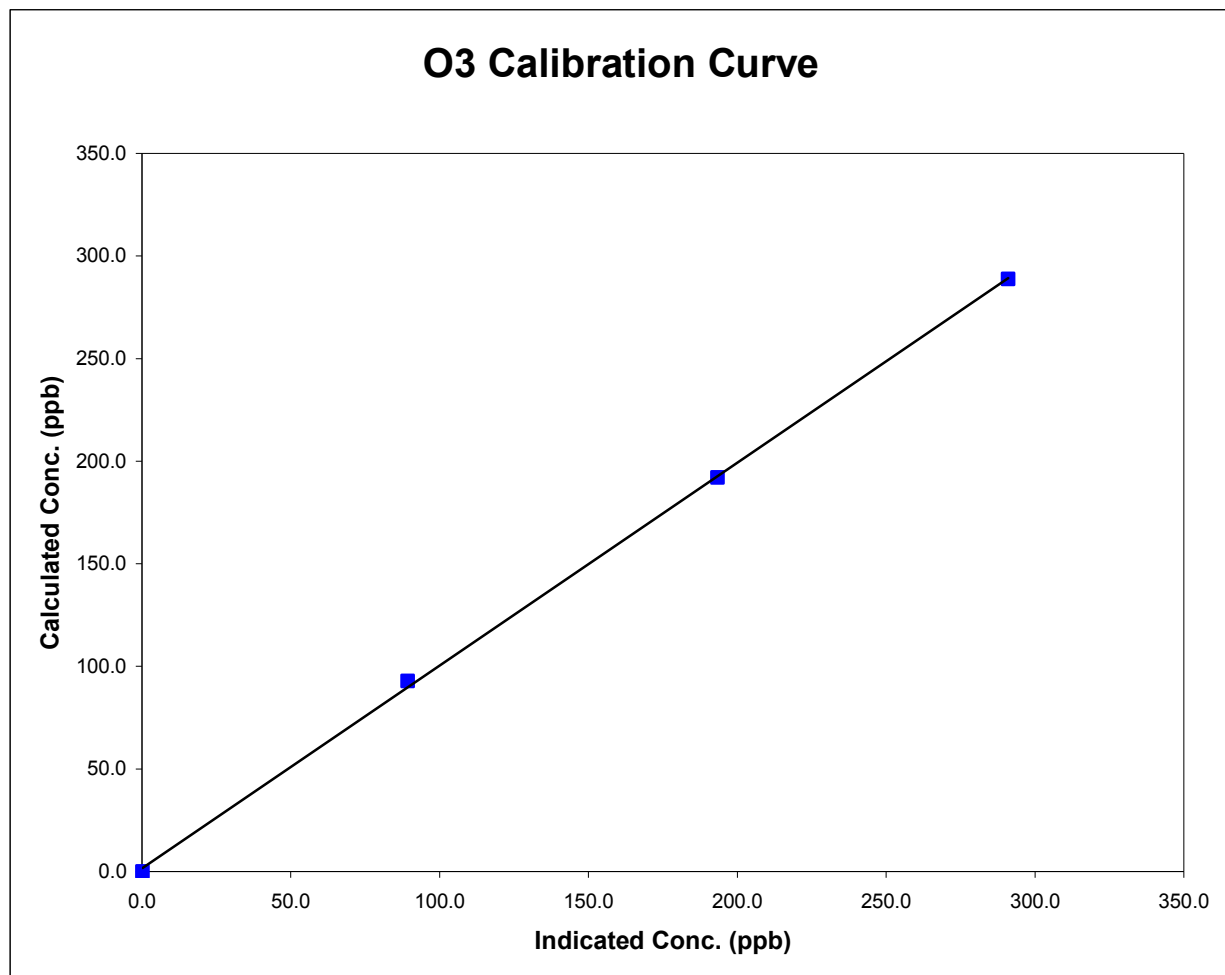


Station Information

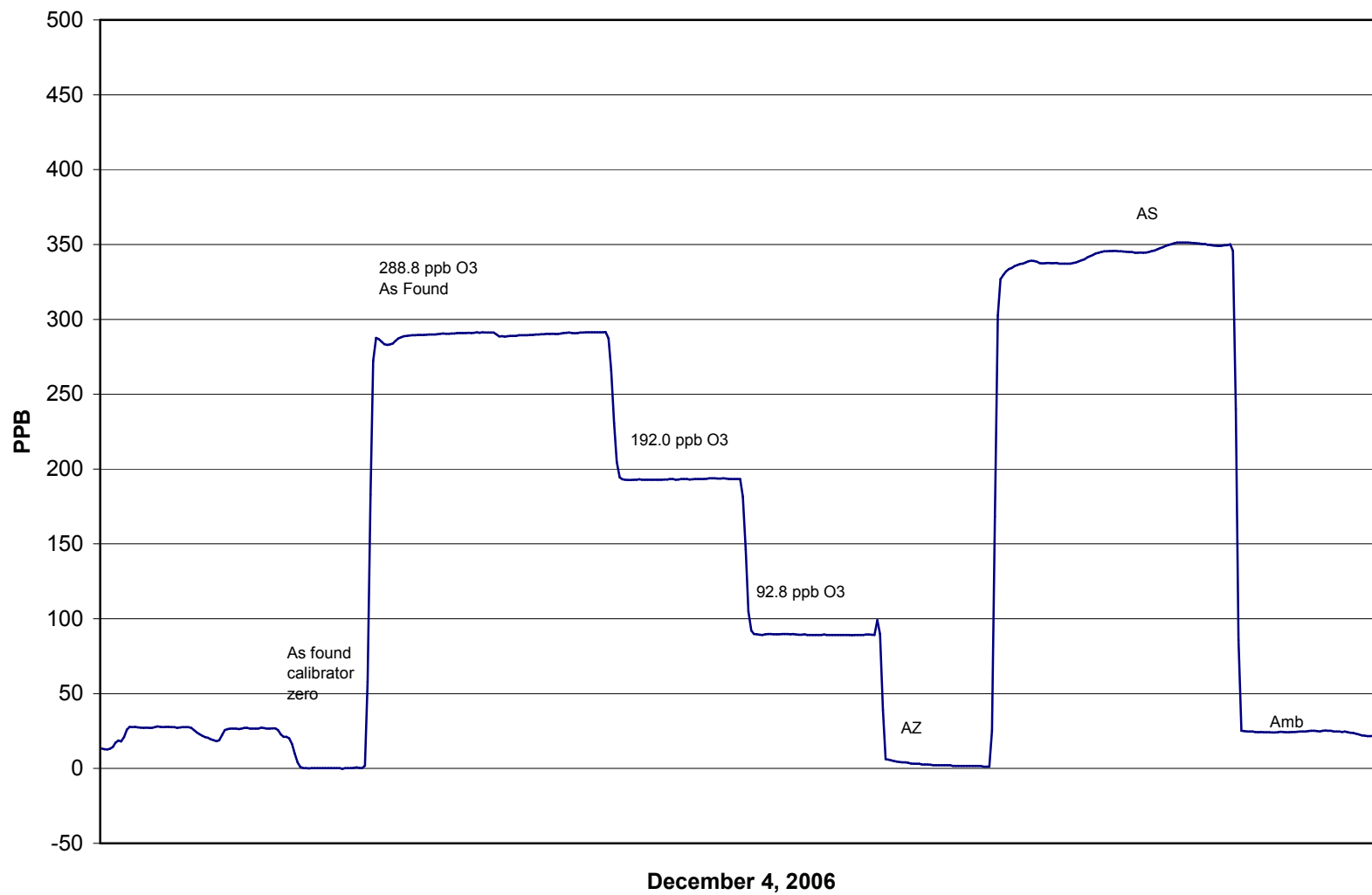
Calibration Date	December 4, 2006	Previous Calibration	November 17, 2006
Station Number	6	Station Location	Rover
Start Time (MST)	15:19	End Time (MST)	18:45
Analyzer make/model	TEI 49C a3C1AB	Analyzer serial #	609716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
288.8	291.0	0.9923	Correlation Coefficient	0.999728
192.0	193.4	0.9928		
92.8	89.3	1.0395	Slope	0.988165
			Intercept	1.628521



O3 Calibration



Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	December 7, 2006	Previous Calibration	November 17, 2006
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:47	End Time (MST)	19:22
Barometric Pressure	27.8 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.945000	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.994900	Calculated slope	0.983565
Calculated intercept	0.912140	Calculated intercept	1.152236
Analyzer make	Monitor Labs	Analyzer serial #	332

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	325	ccm	325	ccm
Span Pot	348		330	
Zero Pot	46		88	
T1	90	%	98	%
T2	39	%	39	%
T3	65	%	65	%

Calibration Data

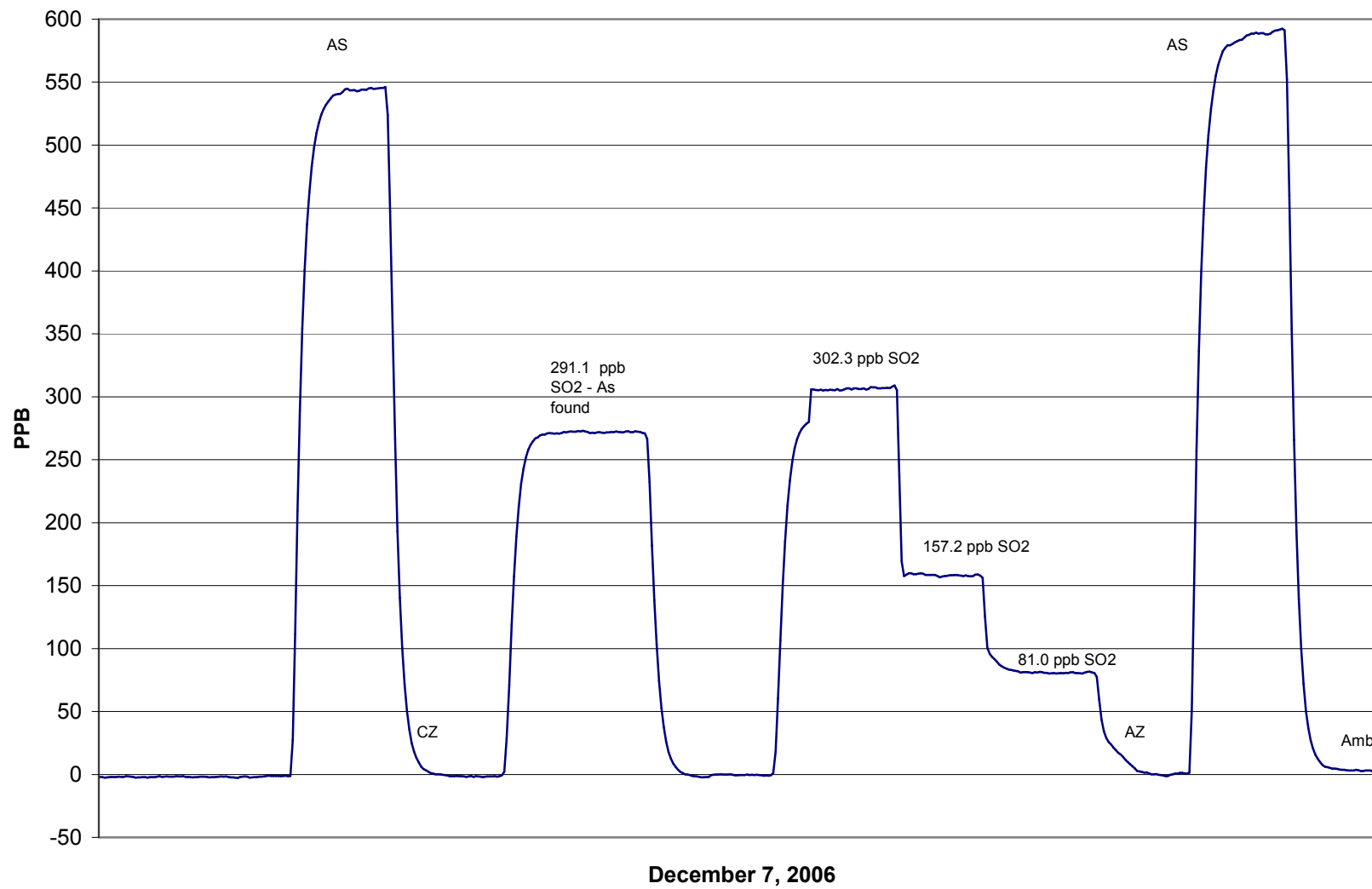
Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2457.0	0.0	-0.4	N/A
2600	2457.0	302.3	306.7	0.9856
5000	4725.0	157.2	157.9	0.9955
9700	9166.5	81.0	80.7	1.0047
zero	2551.5	0.0	-1.6	As Found Zero
2700	2551.5	291.1	271.9	As Found Span
Average Correction Factor				0.9953

Calculated value of As Found Response: 272.935 ppm Percent Change of As Found: 6.2%

	before calibration		after calibration	
Auto zero	0.9	ppm	1.3	ppm
Auto span	539.9	ppm	581.3	ppm

Notes:

Calibration Performed By: Dawn Ewan

SO₂ Calibration

Calibration Report

Parameter H2SAir Monitoring Network PASZA

Station Information

Calibration Date	December 7, 2006	Previous Calibration	November 17, 2006
Station Number	5	Station Location	Valleyview
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:47	End Time (MST)	19:22
Barometric Pressure	27.80 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Expiry Date	8/8/2006
Correction factor	0.945000	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.001664	Calculated slope	1.003096
Calculated intercept	0.220992	Calculated intercept	0.170187
Analyzer make	TECO 43C	Analyzer serial #	45C-57351-313

	before		after	
Concentration range	100	ppb	100	ppb
Background	30.9	ppb	33.7	ppb
coefficient	0.825		0.917	
Lamp Voltage	685	volts	692	volts
Chamber Temp	45	Deg C	44.6	Deg C
Pressure	600	mm Hg	627.9	mm Hg
Sample Flow	450	ccm	467	ccm
Lamp Intesity	44,800	mv	45,000	mv

Calibration Data

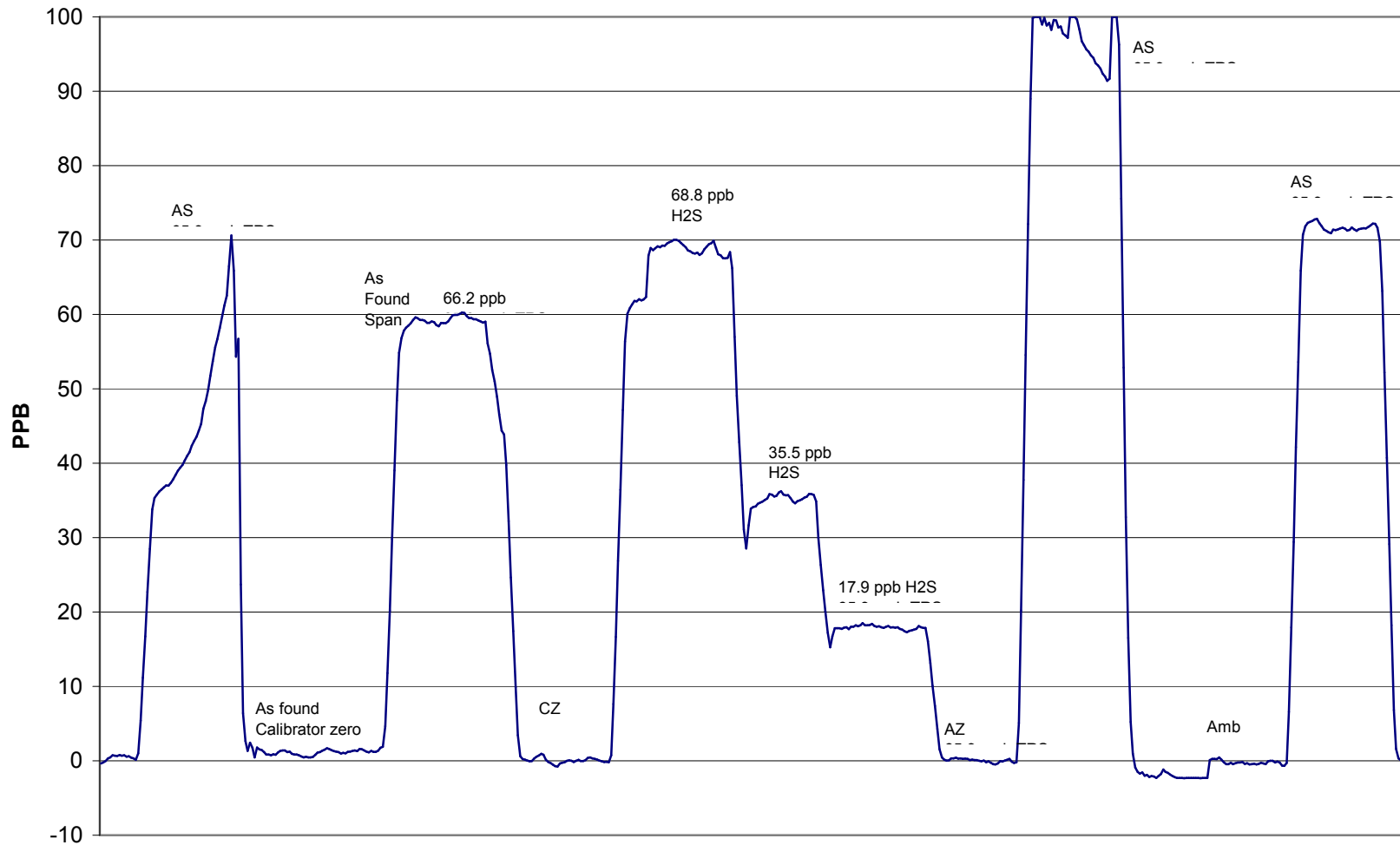
Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2457.0	0.0	0.1	N/A
2600	2457.0	68.8	68.5	1.0044
5000	4725.0	35.8	35.5	1.0076
9700	9166.5	18.4	17.9	1.0308
zero	2551.5	0.0	1.3	As Found Zero
2700	2551.5	66.2	59.3	As Found Span
Average Correction Factor				1.0143

Calculated value of As Found Response: 58.32 ppm Percent Change of As Found: 11.9%

	before calibration		after calibration	
Auto zero	0.3	ppm	0.1	ppm
Auto span	36.5	ppm	71.9	ppm

Notes: _____
_____Calibration Performed By: Dawn Ewan

H2S Calibration



December 7, 2006