Air Quality Monitoring Network for January 2007

Prepared by

FOCUS
AMBIENT AIR MONITORING

Airshed Zone Association – January 2007 PASZA Ambient Air Report **2**
PASZA Monthly Continuous Data Summary 7
PASZA - Henry Pirker - AQI Monthly Summary 13
PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary 14
PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary 19
PASZA - Henry Pirker - Nitric Oxide Monthly Summary 24
PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary 25
PASZA - Henry Pirker - Ozone Monthly Summary 30
PASZA - Henry Pirker - Ozone Monthly Summary 35
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary 36
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary 41
PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary 42
PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary 47
PASZA - Henry Pirker - Particulate Matter (less than 2.5 microns) Monthly Summary 52
PASZA - Henry Pirker - Relative Humidity Monthly Summary 57
PASZA - Henry Pirker - Temperature Monthly Summary 59
PASZA - Henry Pirker - Solar Radiation Monthly Summary 61
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary 63
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary 64
PASZA - Henry Pirker - Wind Direction Monthly Summary 65
PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary 66
PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary 69
PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary 74
PASZA - Evergreen Park - Particulate Matter (less than 2.5 microns) Monthly Summary 79
PASZA - Evergreen Park - Temperature Monthly Summary 84
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary 86
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary 87
PASZA - Evergreen Park - Wind Direction Monthly Summary 88
PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary 89
PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary 92
PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary 97
PASZA - Smoky Heights - Particulate Matter (less than 2.5 microns) Monthly Summary 102
PASZA - Smoky Heights - Temperature Monthly Summary 107
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary 109
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary 110
PASZA - Smoky Heights - Wind Direction Monthly Summary 111
PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary 112
PASZA - Beaverlodge - AQI Monthly Summary 115
PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary 116
PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary 121
PASZA - Beaverlodge - Nitric Oxide Monthly Summary 126
PASZA – Beaverlodge - Oxides of Nitrogen Monthly Summary 127
PASZA - Beaverlodge - Ozone Monthly Summary 132
PASZA - Beaverlodge - Ozone Monthly Summary 137
PASZA - Beaverlodge - Particulate Matter (less than 2.5 microns) Monthly Summary 138
PASZA – Beaverlodge - Relative Humidity Monthly Summary 143
PASZA - Beaverlodge - Temperature Monthly Summary 145
PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary 147

PASZA - Beaverlodge - Vector Wind Speed Monthly Summary 148
PASZA - Beaverlodge - Wind Direction Monthly Summary 149
PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary 150
PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary 153
PASZA - Portable-Falher - Ozone Monthly Summary 158
PASZA - Portable-Falher - Ozone Monthly Summary 163
PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary 164
PASZA - Portable-Falher - Relative Humidity Monthly Summary 169
PASZA - Portable-Falher - Temperature Monthly Summary 171
PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary 173
PASZA - Portable-Falher - Vector Wind Speed Monthly Summary 174
PASZA - Portable-Falher - Wind Direction Monthly Summary 175
PASZA - Portable-Falher - Standard Deviation of Wind Direction Monthly Summary 176
PASZA - Valleyview - Sulphur Dioxide Monthly Summary 179
PASZA - Valleyview - Hydrogen Sulphide Monthly Summary 184
PASZA - Valleyview - Relative Humidity Monthly Summary 189
PASZA - Valleyview - Temperature Monthly Summary 191
PASZA - Valleyview - Scalar Wind Speed Monthly Summary 193
PASZA - Valleyview - Vector Wind Speed Monthly Summary 194
PASZA - Valleyview - Wind Direction Monthly Summary 195
PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary 196
PASZA Passive Stations for January 2007 199
January 2006 Calibration Reports 210

PASZA
Peace AirShed Zone Association

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March 14, 2007

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

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

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 all of the PASZA stations.

During the month of January the following events were noted:

Henry Pirker Station:

- A power outage on January 4th resulted in one (1) hour of invalid data for the SO_2, NO_X, O_3, CO, TRS, relative humidity, temperature, solar radiation, wind speed and wnd direction; and two (2) hours of invalid data for the THC and TEOM analyzers and sensors.
- The O_3 span increased in value greater the 10% on January 6th, cause is not known however a pressure or temperature change is suspected but cannot be confirmed, after the 6th the spans are stable.
- The NO_X, NO_2 and NO data was flagged invalid from January 8th (18:00) to January 10th (10:00) for a total of forty-one (41) hours because the analyzer was not reconnected to the manifold after the calibration.
- There were no spans on January 6th, 7th and 8th on the THC analyzer due to not enough span gas pressure, the regulator pressure was adjusted on the 8th. The spans dropped on January 10th, 14th, 15th, 17th and 27th. The THC span pressure was adjusted on January 17th due to dropping spans, however some of the cause of the instability is suspected to be the internal span supply settings and investigation is ongoing.
- The TRS spans dropped from January 11th to the 14th, reason is not known.
- The wind speed sensor had a total of a total of one hundred (100) hours of invalid data due to the wind speed cups freezing up this resulted in less than 90% uptime (Alberta Environment Reference # 182102) for the month of January.
- All analyzers / sensors (with the exception of the wind speed sensor) at the Henry Pirker station were above 90% uptime.
- The AQI for the month of December resulted in 704 hours of Good readings.

Evergreen Park Station:

- TEOM pump was rebuilt on January 17th, and a calibration was performed. The analyzer did not respond quickly after the calibration and this resulted in ten (10) hours of excessive baseline drift following the calibration.
- The allen screws on the wind direction sensor at Evergreen Park became loose during the night of January 7th after a storm. It was fixed on January 17th. The declination for the wind direction was out by 60°. The data has been adjusted accordingly.
- All analyzers / sensors at the Evergreen Park station were above 90% uptime.

Smoky Heights Station:

- There were elevated readings of $PM_{2.5}$ on January 13th of 91 µg/m^3 and 56 µg/m^3, with winds out of the north-northeast at 7 to 8 km/hr.
- All analyzers / sensors at the Smoky Heights station were above 90% uptime.

Beaverlodge Station:

- From January 9th (20:00) to January 10th (14:00) for a total of nineteen (19) hours, the $PM_{2.5}$ data was flagged invalid; the station temperature dropped 10° and appears to have had an effect on the analyzer.
- Twelve (12) hours of wind speed and wind direction data were flagged invalid on January 13th and 14th due to frozen sensors.
- All analyzers / sensors at the Beaverlodge station were above 90% uptime.
- The AQI for the month resulted in 688 hours of Good readings.

Portable - Falher Station:

- On January 30th a NO_X analyzer was installed, startup calibration was completed on February 3rd. Data collection began February 3rd.
- All analyzers / sensors at the Falher station had an operational uptime of 100%.

Valleyview Station:

- The SO_2 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).
- All analyzers / sensors at the Valleyview station had an operational uptime of 100%.

Passive Monitoring: 43 Stations throughout the PASZA zone:

The NO_2 sampler at Clairmont Lake and the SO_2 sampler at Clouston Creek were damaged and they were not analyzed, those samples have been removed from the data set. One of the SO_2 samplers at Smoky Heights (duplicate sample site for month of January) was missing; thus the Smoky Height site was based on the result of one SO_2 sample, instead of the results from two samples.

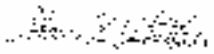
A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO_2 passives ranged from 0.1 ppb to 0.7 ppb, with a mean of 0.3 ppb.
- Monthly average concentrations for NO_2 passives ranged from 0.8 ppb to 15.1 ppb, with a mean of 2.7 ppb.

- Monthly average concentrations for O_3 passives ranged from 21.9 ppb to 47.0 ppb, with a mean of 36.4 ppb.

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

On Behalf of the,
Peace Airshed Zone Association



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RE: PASZA Air Monitoring Directive Non-Compliance Report for the Henry Pirker Air Monitoring Station - Reference # 182102

On behalf of the Peace Airshed Zone Association (PASZA), a non-compliance of the Alberta Air Monitoring Directive was recently reported by FOCUS to Alberta Environment (AENV); we had less than ninety (90%) percent uptime for the month of January 2007 for the wind speed parameter.

This situation occurred at the Henry Pirker air monitoring station (located in Muskoseepi Park in Grande Prairie) from January 10th at 21:00 to January 15th 06:00. The wind speed sensor at this location became frozen due to snow and freezing temperatures; this was the first time we experienced such a failure. An attempt was made to free the anemometer but it was met with no success. Given the nature of this malfunction, PASZA is investigating the suitability of the anemometer chosen for this station.

The station is owned by PASZA and operated on our behalf by Focus. The non-compliance has been assigned AENV reference number 182102.

If there are any questions or concerns please call.

Sincerely,

Michael Bisaga
PASZA Program Manager

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PASZA Monthly Continuous Data Summary

Jan-2007	Peace Airshed Zone Assocation						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant (units)	Objectives 1-hr	Objectives 24-hr	Station	Monthly Average	Exceedence 1-hr	Exceedence 24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	Operational Time (%)
SO_2 (ppb)	172	57	Henry Pirker	0.7	0	0	8.3	Jan-30 11:00	19.3	WNW	2.3	Jan-30	99.9%
SO_2 (ppb)	172	57	Evergreen Park	0.7	0	0	11.1	Jan-31 03:00	3.5	W	1.8	Jan-18	100.0%
SO_2 (ppb)	172	57	Smoky Heights	0.9	0	0	14.0	Jan-19 16:00	15.0	WSW	3.5	Jan-19	100.0%
SO_2 (ppb)	172	57	Beaverlodge	0.4	0	0	3.3	Jan-02 13:00	7.5	ESE	1.5	Jan-29	100.0%
SO_2 (ppb)	172	57	Portable-Falher	0.5	0	0	2.4	Jan-11 13:00	11.3	SSW	1.0	Jan-28	100.0%
SO_2 (ppm)	0.172	0.057	Valleyview	0.00	0	0	0.02	Jan-09 23:00	15.2	WNW	0.00	Jan-04	100.0%
NO (ppb)			Henry Pirker	27.5	-	-	277.3	Jan-12 09:00	N	NW	94.4	Jan-18	94.4%
NO_2 (ppb)	212	106	Henry Pirker	24.0	0	0	69.8	Jan-12 09:00	N	NW	41.1	Jan-18	94.4%
NO_X (ppb)			Henry Pirker	51.7	-	-	348.4	Jan-12 09:00	N	NW	136.0	Jan-18	94.4%
NO (ppb)			Beaverlodge	0.8	-	-	67.9	Jan-11 13:00	0.8	Calm	10.4	Jan-11	100.0%
NO_2 (ppb)	212	106	Beaverlodge	5.0	0	0	32.1	Jan-19 06:00	3.1	S	13.3	Jan-11	100.0%
NO_X (ppb)			Beaverlodge	6.3	-	-	97.8	Jan-11 13:00	0.8	Calm	24.3	Jan-11	100.0%
O_3 (ppb)	82		Henry Pirker	15.3	0	-	39.1	Jan-27 00:00	14.5	WNW	28.3	Jan-25	99.6%
O_3 (ppb) - 8-hr	65		Henry Pirker		0						37.1	Jan-03	
O_3 (ppb)	82		Beaverlodge	31.8	0	-	43.7	Jan-25 02:00	21.5	W	39.3	Jan-25	100.0%
O_3 (ppb) - 8-hr	65		Beaverlodge		0						41.5	Jan-25	
O_3 (ppb)	82		Portable-Falher	29.5	0	-	41.8	Jan-25 15:00	16.4	WNW	39.4	Jan-25	100.0%
O_3 (ppb) - 8-hr	65		Portable-Falher		0						40.5	Jan-25	
CO (ppm)	13		Henry Pirker	0.40	0	-	2.3	Jan-23 17:00	4.7	E	0.8	Jan-24	99.9%
CO (ppm) - 8-hr	5		Henry Pirker		0						1.3	Jan-23	
THC (ppm)			Henry Pirker	2.47	-	-	4.2	Jan-15 04:00	N	E	3.4	Jan-14	99.5%
TRS (ppb)			Henry Pirker	0.4	-	-	1.4	Jan-12 09:00	N	NW	0.7	Jan-04	99.9%
TRS (ppb)			Evergreen Park	0.9	-	-	3.4	Jan-11 16:00	4.2	NW	1.8	Jan-11	100.0%
TRS (ppb)			Smoky Heights	0.5	-	-	1.7	Jan-12 03:00	7.8	S	0.9	Jan-12	100.0%
TRS (ppb)			Portable-Falher	0.5	-	-	0.8	Jan-19 13:00	14.6	W	0.7	Jan-15	100.0%
H_2S (ppb)	10	3	Valleyview	0.1	0	0	3.7	Jan-02 22:00	6.8	S	0.4	Jan-02	100.0%
PM2.5 ($\mu g/m^3$)		30 [a]	Henry Pirker	3.8	0	0	29.0	Jan-27 17:00	7.1	NNW	11.9	Jan-18	99.2%
PM2.5 ($\mu g/m^3$)		30 [a]	Evergreen Park	3.4	0	0	34.5	Jan-31 03:00	3.5	W	9.1	Jan-24	98.4%
PM2.5 ($\mu g/m^3$)		30 [a]	Smoky Heights	2.2	0	0	91.4	Jan-13 14:00	8.3	NNE	12.3	Jan-13	99.2%
PM2.5 ($\mu g/m^3$)		30 [a]	Beaverlodge	1.6	0	0	20.1	Jan-27 10:00	1.4	SE	5.7	Jan-27	96.6%

PASZA Monthly Continuous Data Summary - continued

Jan-2007	Peace Airshed Zone Assocation						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
RH (%)			Henry Pirker	69.1	-	-	-	-	-	-	-	-	99.9%
RH (%)			Beaverlodge	64.2	-	-	-	-	-	-	-	-	100.0%
RH (%)			Portable-Falher	75.6	-	-	-	-	-	-	-	-	100.0%
RH (%)			Valleyview	68.1	-	-	-	-	-	-	-	-	100.0%
SR (W/m^2)			Henry Pirker	40.1	-	-	-	-	-	-	-	-	99.9%
Temp (°C)			Henry Pirker	-6.9	-	-	-	-	-	-	-	-	99.9%
Temp (°C)			Evergreen Park	-7.2	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Smoky Heights	-7.3	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Beaverlodge	-4.5	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Portable-Falher	-8.0	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Valleyview	-6.5	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Henry Pirker	11.8	-	-	39.7	Jan-09 18:00	39.7	WNW	20.2	Jan-10	86.4%
WSPD v (km/hr)			Evergreen Park	7.4	-	-	35.6	Jan-07 19:00	35.6	SW	16.0	Jan-16	100.0%
WSPD v (km/hr)			Smoky Heights	14.6	-	-	49.4	Jan-07 20:00	49.4	W	24.0	Jan-16	100.0%
WSPD v (km/hr)			Beaverlodge	9.4	-	-	40.0	Jan-07 20:00	40.0	WNW	23.8	Jan-16	98.4%
WSPD v (km/hr)			Portable-Falher	13.4	-	-	41.1	Jan-09 21:00	41.1	ENE	27.3	Jan-09	100.0%
WSPD v (km/hr)			Valleyview	7.3	-	-	37.9	Jan-07 20:00	37.9	WNW	12.4	Jan-06	100.0%
WSPD s (km/hr)			Henry Pirker	12.4	-	-	39.8	Jan-09 18:00	39.8	WNW	20.4	Jan-16	86.4%
WSPD s (km/hr)			Evergreen Park	7.8	-	-	36.6	Jan-07 19:00	36.6	SW	16.5	Jan-16	100.0%
WSPD s (km/hr)			Smoky Heights	14.9	-	-	49.8	Jan-07 20:00	49.8	W	24.2	Jan-25	100.0%
WSPD s (km/hr)			Beaverlodge	9.6	-	-	40.0	Jan-07 20:00	40.0	WNW	24.2	Jan-16	98.4%
WSPD s (km/hr)			Portable-Falher	13.6	-	-	41.2	Jan-09 21:00	41.2	ENE	29.5	Jan-09	100.0%
WSPD s (km/hr)			Valleyview	7.6	-	-	38.2	Jan-07 20:00	38.2	WNW	14.3	Jan-31	100.0%
WDIR			Henry Pirker	WSW	-	-	-	-	-	-	-	-	99.9%
WDIR			Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR			Smoky Heights	WSW	-	-	-	-	-	-	-	-	100.0%
WDIR			Beaverlodge	WNW	-	-	-	-	-	-	-	-	98.4%
WDIR			Portable-Falher	SSW	-	-	-	-	-	-	-	-	100.0%
WDIR			Valleyview	W	-	-	-	-	-	-	-	-	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 January 5th (TRS, SO_2, THC & CO) and January 8th (NO_X and O_3). A power outage on January 4th resulted in one (1) hour of invalid data for the SO_2, NO_X, O_3, CO, TRS, relative humidity, temperature, solar radiation, wind speed and wnd direction; and two (2) hours of invalid data for the THC and TEOM analyzers and sensors.

Parameter	Make	Model	Notes
SO_2	TECO	43	No operational problems observed.
NOx/NO/NO_2	TECO	42C	The NO_X, NO_2 and NO data was flagged invalid from January 8th (18:00) to January 10th (10:00) for a total of forty-one (41) hours because the analyzer was not reconnected to the manifold after the calibration.
O_3	API	400	O_3 span became elevated on January 6th, reason not known but spans remained stable for the remainder of the month.
CO	TECO	48C	No operational problems observed.
THC	TEI	51-CLT	There were no spans on January 6th, 7th and 8th on the THC analyzer due to not enough span gas pressure, the regulator pressure was adjusted on the 8th. The spans dropped on January 10th, 14th, 15th, 17th and 27th. The THC span pressure was adjusted on January 17th due to dropping spans, the cause of the instability is suspected to be the internal span supply settings and investigation is ongoing.
TRS	TEI	42C	The TRS spans dropped from January 11th to the 14th, reason is not known
$PM_{2.5}$	R&P	1400AB	Four (4) 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 one hundred (100) hours were invalid due to the wind speed sensor freezing. (AE reference # 182102)
WD	Met One	020C	No operational problems observed.

PASZA – Evergreen Park Station

General Station Issues

Calibrations were performed on January 17th (SO_2, 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	TEOM pump was rebuilt on January 17th, and a calibration was performed. The analyzer did not respond quickly after the calibration and this resulted in ten (10) hours of excessive baseline drift following the calibration. A total of twelve (12) 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 January 19th (SO_2, TRS and $PM_{2.5}$).

Parameter	Make	Model	Notes
SO_2	API	100A	No operational problems observed.
TRS	TEI	42C	No operational problems observed.
$PM_{2.5}$	R&P	1400AB	Six (6) hours of excessive 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 – Beaverlodge Station

General Station Issues

Calibrations were performed on January 26th (NO_X, SO_2, and O_3).

Parameter	Make	Model	Notes
SO_2	TECO	43CTL	No operational problems observed.
NOx/NO/NO_2	TECO	42C	No operational problems observed.
O_3	API	400	No operational problems observed.
$PM_{2.5}$	R&P	1400AB	From January 9th (20:00) to January 10th (14:00) for a total of nineteen (19) hours, the $PM_{2.5}$ data was flagged invalid; the station temperature dropped 10° and appears to have had an effect on the analyzer. A filter exchange resulted in three (3) hours of data flagged invalid on January 12th. Three (3) 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	On January 13th and 14th twelve (12) hours were flagged invalid due to the wind speed sensor freezing. Four (4) hours of calm were observed.
WD	Blue Sky	857	On January 13th and 14th twelve (12) hours were flagged invalid due to the wind direction sensor freezing.

PASZA – Falher (Portable) Station

General Station Issues

Calibrations were performed on January 23rd (SO_2 and TRS) and January 30th (NO_X and O_3).

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		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 – Valleyview Station

General Station Issues

Calibrations were performed on January 22nd (SO_2, H_2S).

Parameter	Make	Model	Notes
SO_2	ML	332	No operational problems observed.
H_2S	TEI	43C	No operational problems observed.
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: January 1, 2007 to February 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-Jan-07	22	12	9	7	10	12	8	7	11	10	14	13	12	14	13	N	17	16	16	16	12	12	14	14
2-Jan-07	16	13	8	8	7	6	7	9	9	9	9	8	N	10	N	7	6	5	8	8	7	11	7	13
3-Jan-07	18	19	19	19	19	19	18	17	17	15	15	15	11	N	7	12	9	8	10	10	11	10	9	9
4-Jan-07	8	9	8	7	7	7	7	9	10	7	12	14	N	N	16	17	16	15	16	16	16	16	16	16
5-Jan-07	17	14	13	10	7	N	9	8	8	6	9	8	8	N	11	13	8	9	9	7	7	9	10	7
6-Jan-07	9	14	16	16	17	N	15	16	15	13	14	17	17	17	16	15	15	15	14	13	10	10	10	8
7-Jan-07	7	6	11	11	N	10	12	15	N	14	11	11	9	11	16	16	15	15	15	17	18	18	17	15
8-Jan-07	17	18	18	N	10	10	11	12	9	7	16	14	13	14	14	7	6	9	10	8	9	7	5	7
9-Jan-07	10	N	14	14	14	N	13	11	10	11	13	13	12	12	13	11	10	11	12	12	12	13	13	14
10-Jan-07	14	15	15	15	N	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	13	9	7	8
11-Jan-07	7	7	7	N	7	9	9	10	10	9	7	6	8	7	6	6	6	8	8	9	9	9	8	8
12-Jan-07	7	7	N	7	8	10	9	10	12	17	13	9	9	9	10	11	12	12	12	10	8	8	7	7
13-Jan-07	17	N	13	14	17	14	13	13	11	13	12	13	13	13	12	10	6	8	10	9	8	7	6	7
14-Jan-07	N	6	5	5	6	7	7	7	6	6	6	8	6	7	7	7	7	7	7	7	7	7	7	N
15-Jan-07	8	8	9	10	11	9	7	10	13	12	12	12	10	12	9	8	9	11	11	9	7	8	N	16
16-Jan-07	12	7	10	15	16	16	16	14	14	13	14	4	3	N	N	N	14	14	15	15	14	14	11	11
17-Jan-07	6	9	6	11	12	N	6	7	10	10	8	7	10	9	9	7	10	8	9	9	8	10	9	9
18-Jan-07	9	10	10	8	N	8	9	9	9	8	10	9	12	13	14	17	20	15	15	19	13	13	9	9
19-Jan-07	9	8	8	N	8	7	9	9	9	7	9	7	12	15	13	14	11	9	9	8	9	10	9	8
20-Jan-07	9	9	N	10	8	7	12	10	11	13	12	6	6	7	7	7	8	10	9	7	9	6	6	7
21-Jan-07	9	N	9	10	10	9	9	8	9	6	6	7	7	8	6	8	12	13	7	10	6	8	9	9
22-Jan-07	N	6	8	6	6	6	9	10	10	10	9	9	11	11	10	12	13	14	14	9	12	17	17	N
23-Jan-07	18	18	17	17	15	12	7	10	11	15	14	10	10	8	8	10	12	16	16	11	11	9	N	10
24-Jan-07	10	9	9	5	5	5	7	7	7	7	8	11	13	15	11	11	14	20	12	12	10	N	9	9
25-Jan-07	10	8	8	7	14	18	16	16	17	16	17	19	18	20	19	19	18	10	10	14	N	14	14	13
26-Jan-07	14	16	15	15	15	17	12	12	8	7	12	15	14	14	13	11	8	11	12	N	10	8	9	9
27-Jan-07	8	6	6	6	6	6	8	7	8	6	7	7	8	8	8	7	10	24	N	8	8	13	18	19
28-Jan-07	20	15	13	13	15	13	7	10	9	9	12	11	10	12	8	8	11	N	11	11	10	8	9	13
29-Jan-07	15	15	15	13	11	8	7	9	10	9	8	9	13	14	11	7	N	10	12	14	10	9	6	7
30-Jan-07	16	16	15	16	14	13	10	8	15	16	15	17	17	17	14	N	10	9	10	11	11	13	12	12
31-Jan-07	10	7	8	6	10	8	10	17	17	17	17	17	18	18	N	17	17	16	16	16	16	17	18	18

PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

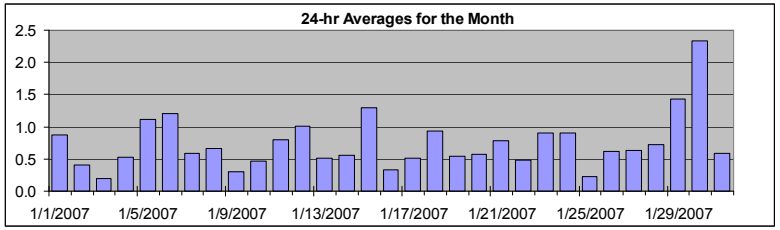
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	8.3	ppb	30-Jan	11:00 12:00
Maximum 24-hr Average:	2.3	ppb	30-Jan	



AIC Time:	31 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	1.8	0.9	0.6	0.3	0.2	0.1	0.7 ppb	0.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	1	1	0	2	3	2	1	2	2	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0.9	2.7
2-Jan-07	0	0	0	0	0	0	0	1	1	1	1	1	0	0	A	0	0	0	0	0	1	1	0	0	0.4	1.2
3-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.5
4-Jan-07	0	0	0	0	0	0	0	1	1	0	0	C	P	1	1	1	1	1	1	1	1	1	1	1	0.5	1.2
5-Jan-07	1	1	1	1	1	1	1	1	2	4	6	C	C	A	1	0	0	0	0	0	0	1	1	0	1.1	5.7
6-Jan-07	0	0	0	0	0	A	0	0	0	0	0	2	0	1	1	0	3	2	1	5	6	2	1	1	1.2	6.2
7-Jan-07	0	1	1	1	A	1	0	0	0	0	1	1	1	1	3	1	0	0	0	0	0	0	0	0	0.6	3.3
8-Jan-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	1	1	0.7	2.2
9-Jan-07	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.3	0.8
10-Jan-07	0	0	1	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	0.5	0.7
11-Jan-07	1	1	1	A	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
12-Jan-07	1	1	A	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	1.0	2.4
13-Jan-07	0	A	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0.5	1.1
14-Jan-07	A	0	0	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	A	0.6	1.0
15-Jan-07	1	1	1	2	2	2	1	1	2	2	2	2	1	2	1	1	1	2	2	1	1	1	A	1	1.3	1.8
16-Jan-07	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
17-Jan-07	0	0	0	1	1	A	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	1	0.5	1.0
18-Jan-07	1	1	1	0	A	0	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	0.9	1.8
19-Jan-07	1	0	0	A	0	0	1	1	1	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0.5	1.2
20-Jan-07	1	0	A	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.6	1.0
21-Jan-07	0	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	0	0	0	1	1	1	0.8	2.2
22-Jan-07	A	0	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	A	0.5	1.3
23-Jan-07	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	1	1	2	2	1	1	1	A	1	0.9	2.2
24-Jan-07	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	A	0	1	0.9	1.9
25-Jan-07	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.6
26-Jan-07	0	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	2	A	1	0	1	0	0.6	1.6
27-Jan-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	A	1	1	1	1	1	0.6	1.7
28-Jan-07	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0	1	0.7	1.3
29-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	2	4	4	4	A	2	2	2	1	1	1	1	1.4	3.9
30-Jan-07	1	1	1	1	1	1	1	1	1	1	3	8	7	6	6	A	2	1	2	1	2	2	1	2	2.3	8.3
31-Jan-07	1	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	0	0	0.6	1.0
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.9	1.0	1.1	1.0	1.0	1.1	0.8	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.5		
Hourly Max	1.5	1.5	1.3	1.9	2.7	2.0	1.5	1.6	2.2	3.6	5.7	8.3	6.9	6.0	5.9	3.9	2.6	2.3	2.3	5.0	6.2	1.8	1.4	1.5		

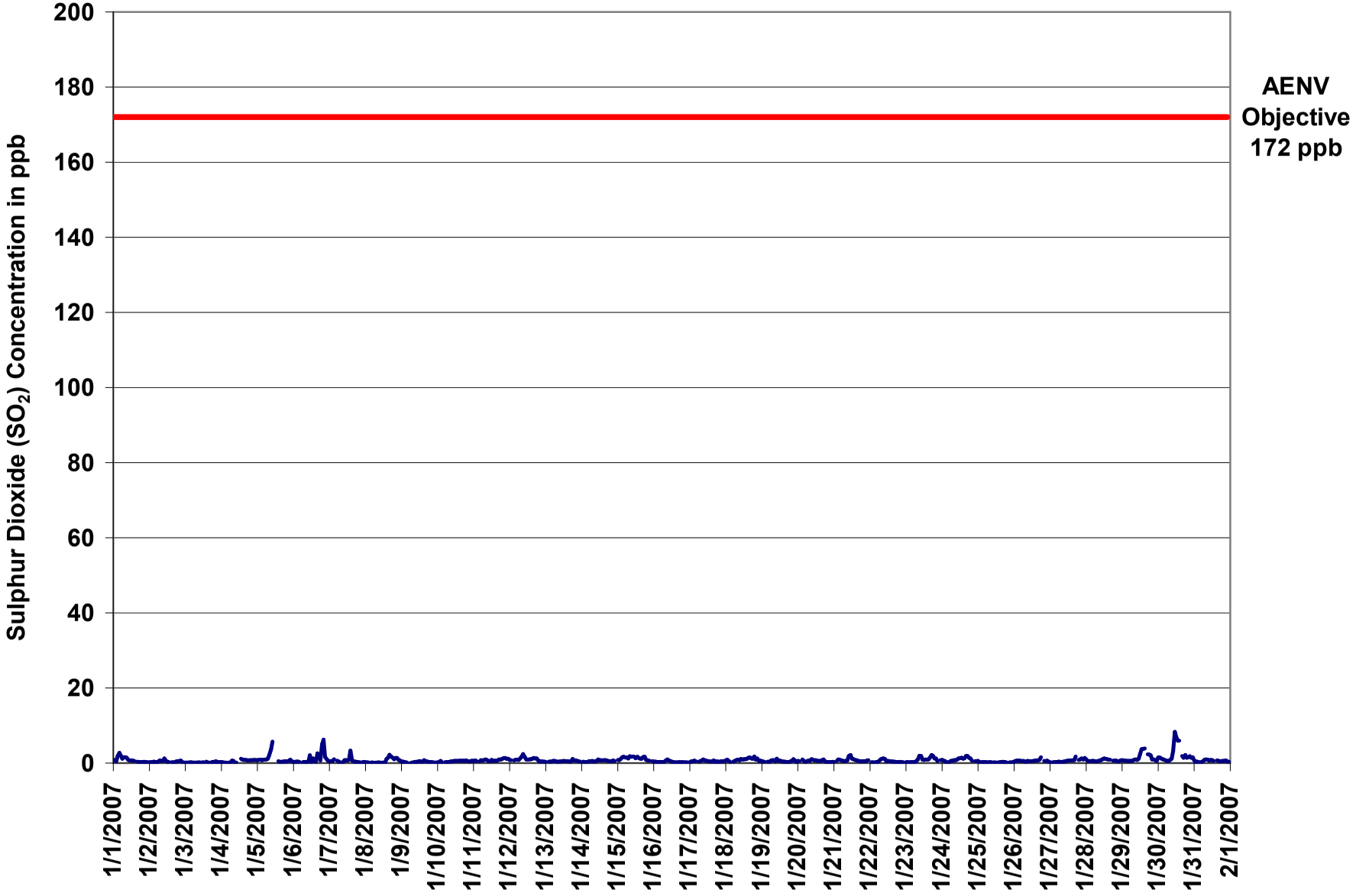


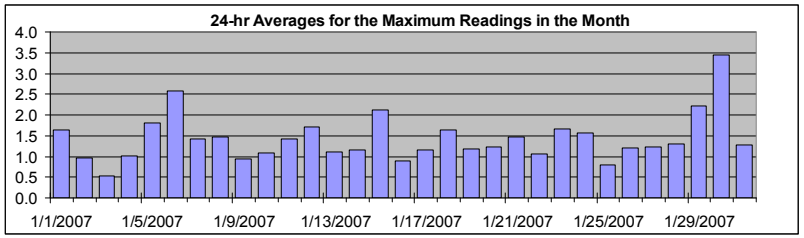
Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	10.5	ppb	30-Jan	11:00 12:00
Maximum 24-hr Value:	3.5	ppb	30-Jan	

AIC Time:	31 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	7.1	3.0	1.6	1.2	0.9	0.6	0.4	1.4 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**

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-Jan-07	1	1	1	6	7	3	2	3	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.6	7.2
2-Jan-07	0	1	1	1	1	1	1	1	1	1	4	3	1	1	A	1	0	1	1	1	1	1	1	0	1.0	3.9
3-Jan-07	0	1	0	1	0	0	0	0	1	0	1	1	1	A	1	1	0	0	1	0	1	1	1	1	0.5	1.1
4-Jan-07	1	1	1	0	0	0	0	1	2	0	0	C	P	2	2	1	1	1	1	1	1	1	1	1	1.0	1.9
5-Jan-07	1	1	2	1	1	1	2	2	4	5	7	C	C	A	1	1	1	1	1	1	1	1	2	1	1.8	6.8
6-Jan-07	1	1	1	1	1	A	1	1	1	1	1	4	1	4	1	3	7	5	3	8	9	4	2	1	2.6	8.8
7-Jan-07	1	1	1	2	A	1	1	1	0	1	1	1	1	4	5	2	1	1	1	1	1	1	1	1	1.4	5.4
8-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	4	3	3	2	2	1	2	2	2	1	1.5	4.5
9-Jan-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	0.9	2.7
10-Jan-07	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.1	2.1
11-Jan-07	1	1	1	A	1	1	1	2	2	2	1	1	1	1	1	1	1	2	1	2	2	2	2	2	1.4	2.1
12-Jan-07	1	1	A	1	2	2	1	2	2	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1.7	3.1
13-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.1	2.0
14-Jan-07	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1.2	1.7
15-Jan-07	1	1	2	2	2	3	2	2	3	3	3	3	2	2	2	2	2	2	3	2	1	1	A	1	2.1	2.8
16-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
17-Jan-07	1	1	1	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.8
18-Jan-07	1	1	1	1	A	1	1	2	2	1	2	2	2	2	2	2	2	2	2	3	2	2	1	1	1.6	2.6
19-Jan-07	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1.2	2.4
20-Jan-07	1	1	A	2	1	1	1	1	1	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1.2	1.9
21-Jan-07	1	A	2	2	1	1	1	1	1	2	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1.5	3.3
22-Jan-07	A	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1.1	2.0
23-Jan-07	1	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	2	3	3	2	2	1	A	2	1.7	3.1
24-Jan-07	1	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	2	1	A	1	1	1.6	2.8
25-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.1
26-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	A	1	1	1	1	1.2	2.4
27-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	A	1	2	2	2	3	1.2	3.0
28-Jan-07	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	A	2	1	1	1	1	1	1.3	1.8
29-Jan-07	1	1	1	1	1	1	1	1	2	2	1	2	3	5	5	6	A	3	3	3	2	2	1	1	2.2	6.1
30-Jan-07	2	2	2	2	1	1	1	1	1	2	6	11	9	9	9	A	3	2	3	2	2	3	2	3	3.5	10.5
31-Jan-07	2	1	1	1	1	1	1	1	2	1	1	1	2	1	A	2	2	1	1	1	1	2	1	1	1.3	2.1
Hourly Avg	1.1	1.1	1.0	1.3	1.2	1.1	1.1	1.2	1.4	1.5	1.8	1.9	1.6	1.8	1.9	1.6	1.6	1.6	1.6	1.6	1.5	1.4	1.2	1.1		
Hourly Max	2.2	2.0	2.1	6.1	7.2	2.8	2.4	2.6	4.0	4.8	6.8	10.5	9.1	8.8	9.2	6.1	7.1	4.6	3.2	7.8	8.8	3.7	2.3	2.7		

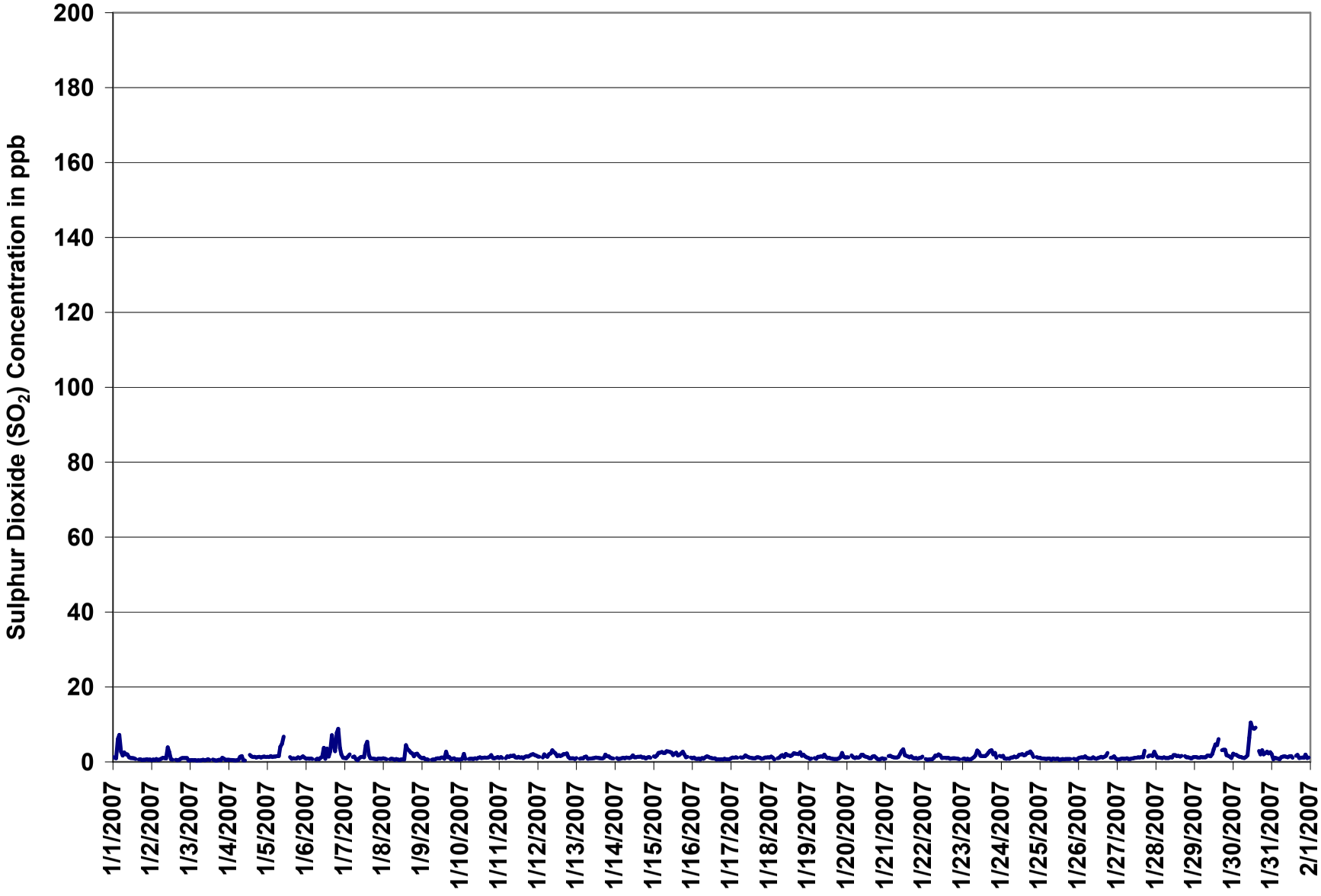
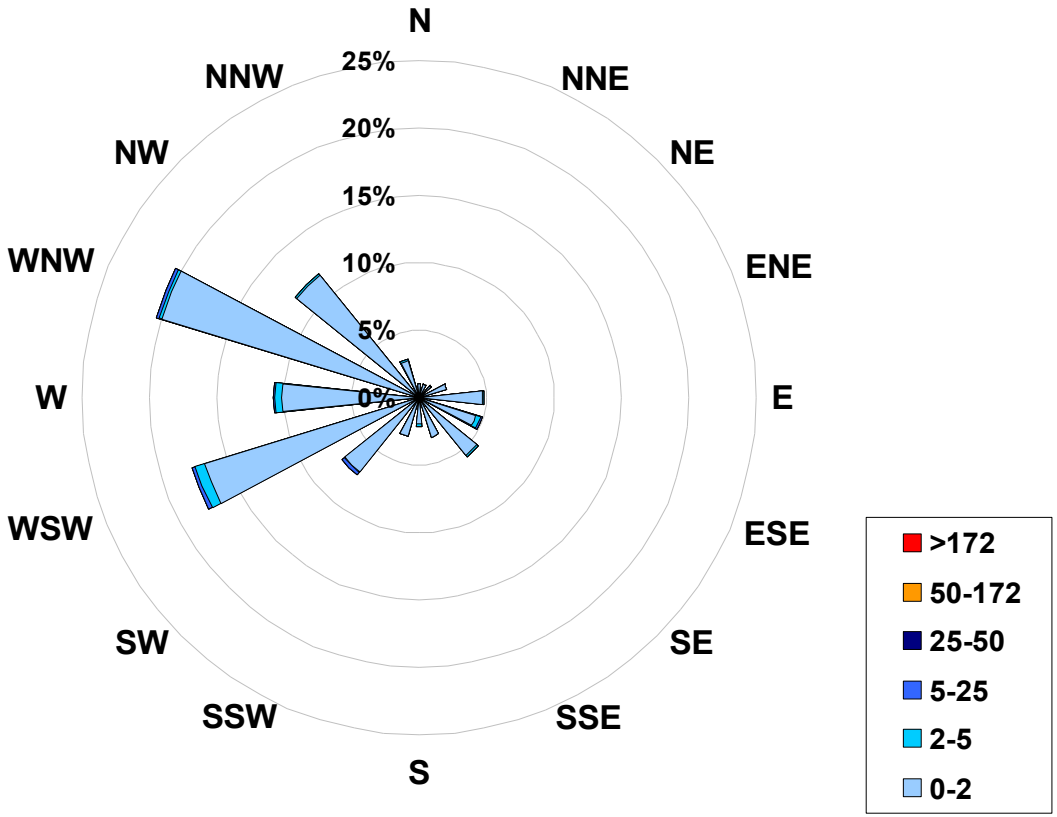


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	683
2	to	5	19
5	to	25	7
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			709

PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

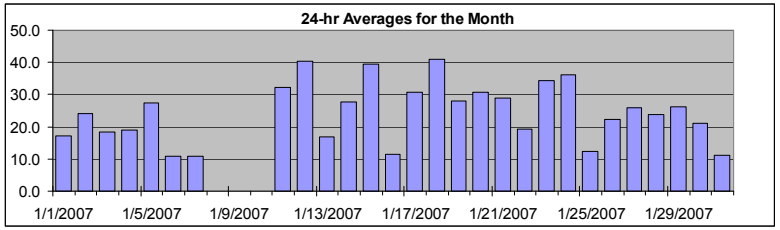
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	69.8	ppb	12-Jan	9:00 10:00
Maximum 24-hr Average:	41.1	ppb	18-Jan	



AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	52.8	46.9	36.1	24.6	10.6	3.9	1.7	24.0 ppb	24.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	46	46	38	28	18	14	21	24	17	20	10	15	15	12	13	A	4	4	5	5	12	13	7	8	17.2	46.1
2-Jan-07	4	8	15	34	28	24	30	39	36	37	37	17	14	14	A	20	22	22	32	32	31	29	18	8	24.0	38.8
3-Jan-07	4	2	1	1	1	2	3	7	7	10	11	10	20	A	30	18	25	25	42	40	45	43	39	39	18.5	45.4
4-Jan-07	35	36	33	29	28	31	31	39	43	29	13	11	P	7	8	7	9	10	8	7	6	7	6	7	19.1	43.3
5-Jan-07	5	11	11	18	29	A	39	34	33	26	37	32	32	26	20	15	25	37	38	24	29	37	43	29	27.3	42.5
6-Jan-07	19	8	4	3	3	A	11	10	11	16	14	8	6	5	8	8	8	8	9	12	18	18	17	22	10.7	21.8
7-Jan-07	27	25	15	14	A	16	13	8	6	10	16	17	22	16	5	6	7	7	6	3	2	2	3	2	10.8	27.3
8-Jan-07	1	1	1	A	18	18	17	14	23	27	6	C	C	C	C	C	A	N	N	N	N	N	N	N	N	27.0
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	3	4	4	4	4	5	5	6	6	5	7	16	28	34	N	33.5
11-Jan-07	29	29	28	A	27	39	38	43	42	37	28	21	32	26	26	24	24	32	34	38	40	38	34	32	32.3	42.9
12-Jan-07	28	30	A	30	33	42	37	43	50	70	54	39	37	38	42	46	50	50	49	42	33	34	28	22	40.3	69.8
13-Jan-07	4	A	14	10	4	8	9	8	12	9	9	8	8	7	10	14	24	35	43	38	33	29	25	27	17.0	43.2
14-Jan-07	A	25	20	20	26	31	29	30	26	25	27	34	25	29	28	28	28	29	29	29	30	31	28	A	27.6	34.3
15-Jan-07	34	32	37	42	45	36	28	42	55	52	51	49	43	50	39	35	38	45	47	37	28	34	A	9	39.4	55.3
16-Jan-07	15	29	20	8	6	7	8	12	12	13	12	17	12	6	8	7	11	11	8	7	9	9	14	13	11.3	29.3
17-Jan-07	25	39	25	12	11	A	27	29	41	42	35	24	18	23	22	29	42	32	36	39	35	40	39	39	30.6	42.5
18-Jan-07	40	40	40	34	A	35	37	37	39	35	38	35	37	39	43	49	53	46	47	51	44	46	39	39	41.1	53.0
19-Jan-07	39	36	35	A	33	28	37	39	39	27	39	21	12	7	11	10	15	20	19	22	39	43	38	35	27.9	43.4
20-Jan-07	37	37	A	41	34	30	31	33	33	36	33	25	27	23	22	28	34	42	38	23	17	24	27	28	30.6	42.2
21-Jan-07	17	A	36	44	40	36	38	35	36	26	25	28	23	35	27	22	12	10	22	17	25	34	36	37	28.9	44.1
22-Jan-07	A	18	14	16	14	12	36	43	43	41	39	18	15	15	17	11	10	8	9	20	15	5	5	A	19.2	43.3
23-Jan-07	4	3	5	4	8	14	26	43	48	61	60	44	41	33	35	41	47	54	50	47	45	39	A	41	34.5	61.1
24-Jan-07	41	40	36	22	15	21	29	31	30	29	29	37	39	40	34	40	50	50	49	52	44	A	38	36	36.2	51.8
25-Jan-07	42	24	28	27	16	4	7	6	6	8	9	4	5	2	3	3	5	21	21	12	A	12	11	12	12.4	41.6
26-Jan-07	10	6	9	8	9	6	15	16	25	30	17	10	14	14	17	22	32	45	52	A	40	34	39	38	22.1	51.7
27-Jan-07	35	26	26	25	25	25	32	30	32	27	22	23	21	22	24	28	36	50	A	32	29	17	6	5	26.0	49.9
28-Jan-07	3	12	14	14	10	14	29	19	21	37	16	21	24	18	26	27	40	A	44	46	44	35	20	13	23.7	45.7
29-Jan-07	9	8	9	12	16	23	31	39	43	38	21	20	12	10	17	27	A	42	49	50	41	38	27	22	26.3	50.5
30-Jan-07	6	5	6	5	9	11	19	21	9	6	8	5	4	6	15	A	25	36	43	46	47	53	49	50	21.0	52.8
31-Jan-07	41	30	32	24	13	18	17	4	4	6	5	5	5	5	A	7	6	8	8	8	7	4	2	2	11.2	41.2
Hourly Avg	22.2	22.5	20.4	20.2	19.2	20.9	25.0	26.8	28.4	28.8	24.1	20.8	20.2	19.0	20.5	21.4	24.5	28.0	30.1	28.0	28.3	27.3	24.6	24.1		
Hourly Max	45.9	46.1	40.0	44.1	45.2	42.5	39.5	43.2	55.3	69.8	59.7	49.3	42.7	50.1	42.5	49.4	53.0	53.6	51.7	51.8	46.7	52.8	49.3	50.4		

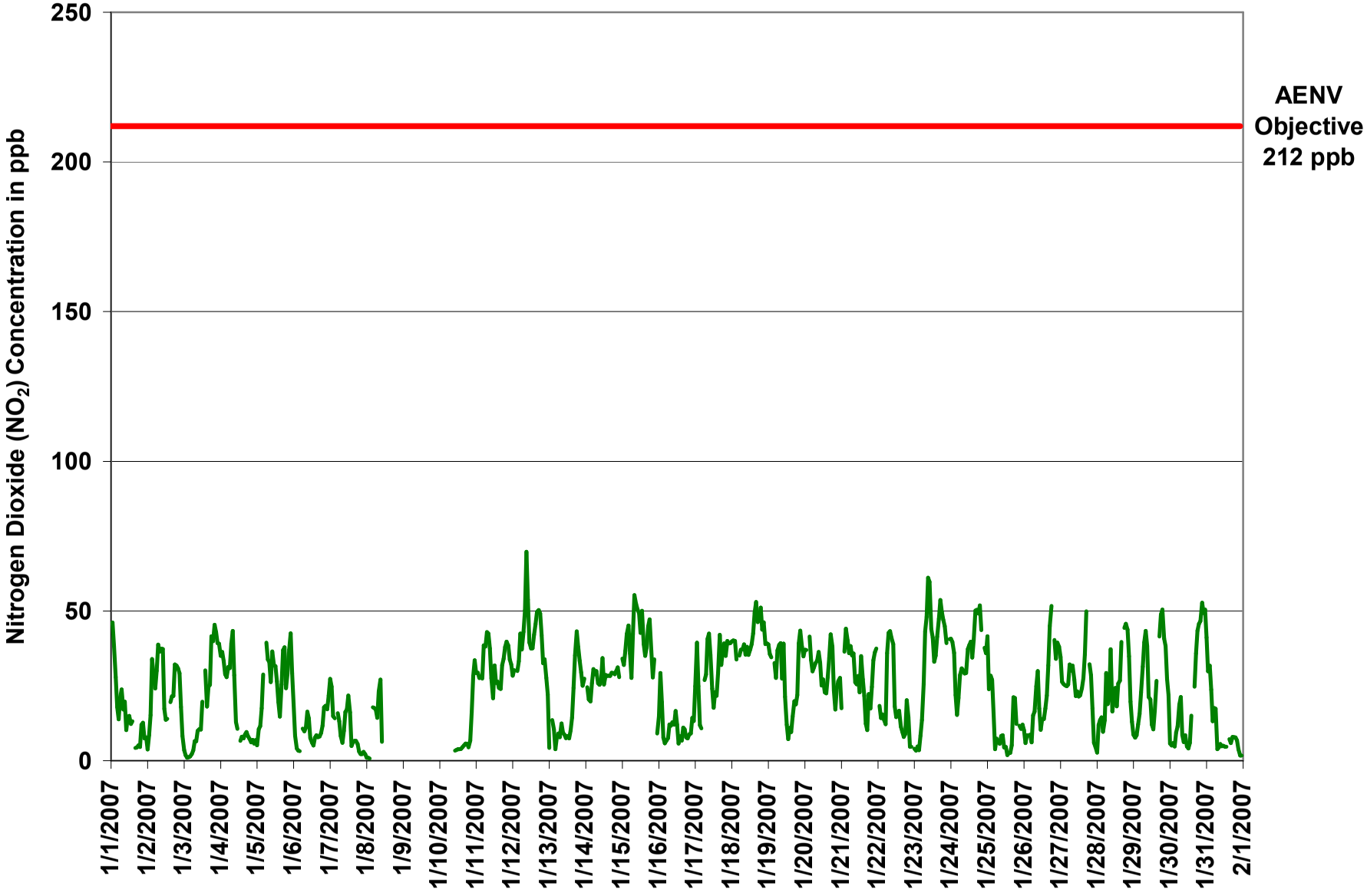


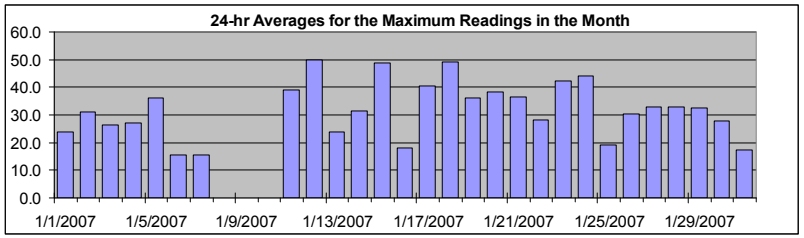
Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	118.7	ppb	4-Jan	8:00 9:00
Maximum 24-hr Value:	49.9	ppb	12-Jan	

AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	65.3	56.0	43.2	33.1	17.7	6.4	2.7	31.4 ppb	33.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	49	49	48	39	25	21	28	33	22	31	15	18	25	17	21	A	8	7	7	6	24	22	10	20	23.7	49.2
2-Jan-07	13	14	30	39	35	36	38	43	41	44	45	29	18	24	A	24	28	26	36	34	36	34	33	15	31.1	45.2
3-Jan-07	7	3	1	2	2	3	8	11	9	16	39	55	26	A	38	30	37	43	47	45	49	48	44	43	26.3	54.6
4-Jan-07	37	42	41	39	35	39	38	49	119	42	18	18	P	8	10	10	12	13	11	10	8	9	8	9	27.2	118.7
5-Jan-07	11	15	15	26	41	A	51	47	40	35	44	39	47	34	39	26	38	45	42	29	32	42	49	44	36.0	50.8
6-Jan-07	34	21	9	6	6	A	17	13	17	23	18	11	9	6	11	12	12	10	12	15	24	25	23	27	15.7	34.4
7-Jan-07	40	34	20	18	A	20	22	12	8	15	22	26	30	27	6	11	9	9	8	4	3	3	6	3	15.6	39.8
8-Jan-07	1	2	1	A	22	27	29	27	36	35	20	C	C	C	C	C	A	N	N	N	N	N	N	N	N	35.6
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	5	9	7	5	8	10	8	11	9	6	13	25	39	39	N	39.4
11-Jan-07	34	33	34	A	41	46	44	50	57	45	33	24	43	38	32	32	33	35	39	42	45	47	38	37	39.2	56.6
12-Jan-07	31	33	A	33	51	47	43	59	60	85	80	53	46	47	52	56	60	55	59	47	42	41	35	34	49.9	84.9
13-Jan-07	9	A	28	20	6	21	18	14	23	14	13	15	12	14	14	21	35	44	50	48	36	33	30	30	23.7	49.7
14-Jan-07	A	28	25	23	31	34	31	32	31	28	34	44	29	34	35	31	32	31	32	30	32	38	30	A	31.5	43.7
15-Jan-07	38	37	41	46	49	51	43	60	63	64	57	63	47	56	56	38	48	51	54	48	43	47	A	26	48.9	64.1
16-Jan-07	41	41	30	16	11	11	11	19	16	17	17	19	21	8	13	12	14	14	11	10	13	14	27	30	18.1	41.0
17-Jan-07	50	50	38	22	31	A	37	42	48	51	46	35	27	28	28	36	46	43	42	42	41	47	56	47	40.6	55.8
18-Jan-07	43	47	42	39	A	42	46	49	46	39	51	49	52	47	52	60	60	56	55	58	55	53	48	43	49.2	60.1
19-Jan-07	42	43	38	A	38	33	42	43	43	40	58	35	19	10	19	20	28	33	38	32	42	48	46	41	36.2	58.0
20-Jan-07	42	45	A	48	41	33	34	36	45	46	47	32	35	26	27	35	39	47	43	38	29	37	37	40	38.2	48.3
21-Jan-07	26	A	43	53	43	42	42	38	40	38	32	33	36	41	33	31	22	14	36	35	34	39	40	45	36.4	53.2
22-Jan-07	A	35	24	21	21	16	57	48	50	52	51	30	23	28	29	21	15	13	13	30	24	7	7	A	28.0	57.2
23-Jan-07	6	5	7	5	12	24	44	47	60	76	70	52	53	43	43	58	54	64	59	52	51	43	A	46	42.3	76.4
24-Jan-07	46	45	39	31	19	30	41	42	34	33	32	49	45	49	41	48	65	55	63	59	52	A	47	48	44.1	64.9
25-Jan-07	48	35	40	36	35	6	10	10	10	15	18	7	9	3	5	4	13	33	30	19	A	18	18	17	19.1	48.4
26-Jan-07	16	9	13	12	15	16	28	28	34	66	23	17	20	19	23	30	45	48	60	A	47	41	44	40	30.2	66.0
27-Jan-07	37	33	33	32	32	33	38	33	39	35	28	30	30	26	28	32	43	56	A	46	44	33	11	6	33.0	56.2
28-Jan-07	5	33	21	27	23	25	38	33	36	55	25	28	32	25	40	34	47	A	48	49	48	44	23	19	33.0	54.7
29-Jan-07	12	11	11	20	27	31	41	42	46	45	28	25	21	18	24	34	A	50	51	56	48	43	35	28	32.5	56.1
30-Jan-07	14	5	7	6	16	21	35	32	13	8	16	6	5	13	24	A	36	44	49	56	51	69	54	56	27.8	68.9
31-Jan-07	56	34	41	35	23	38	33	5	10	10	8	9	8	8	A	11	10	12	12	12	10	6	3	3	17.3	56.0
Hourly Avg	29.2	28.9	26.7	26.7	27.1	28.7	34.1	34.4	37.7	38.1	33.1	29.6	27.8	25.1	27.8	28.3	32.0	34.4	36.3	34.1	34.9	34.2	31.3	31.0		
Hourly Max	56.0	49.9	47.7	53.2	51.2	50.8	57.2	60.0	118.7	84.9	79.5	63.2	52.9	55.7	56.3	59.6	64.9	64.2	63.0	59.5	54.9	68.9	55.8	55.9		

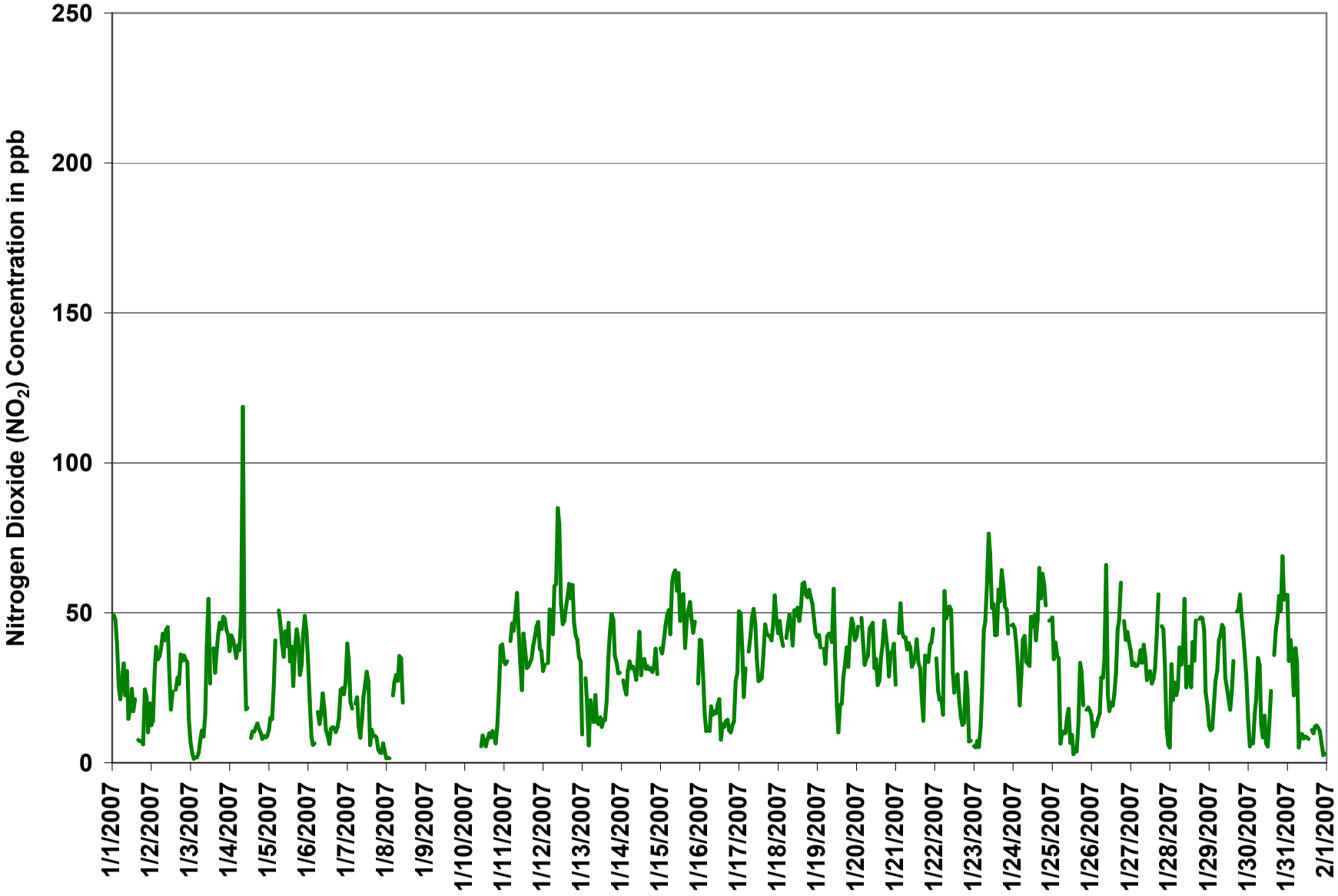
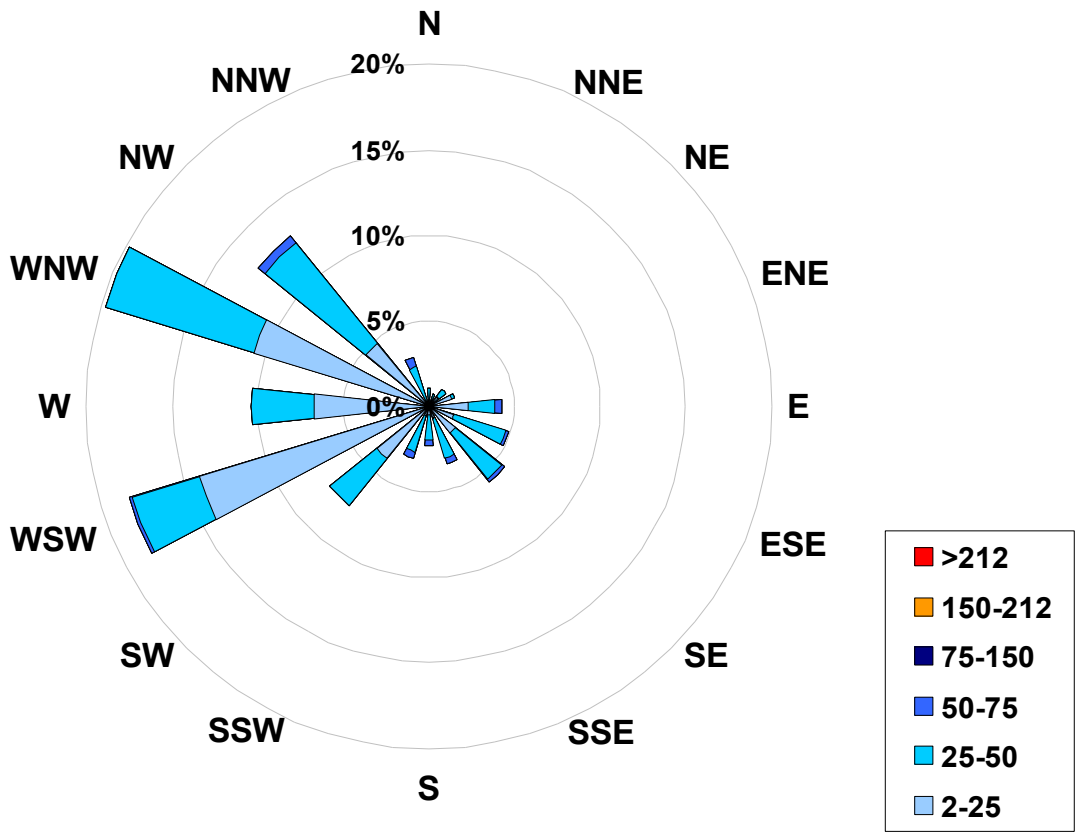


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	457
25	to	50	80
50	to	75	45
75	to	150	70
150	to	212	10
	>	212	5
Total Non-Zero Values			667

PASZA - Henry Pirker - Nitric Oxide Monthly Summary

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

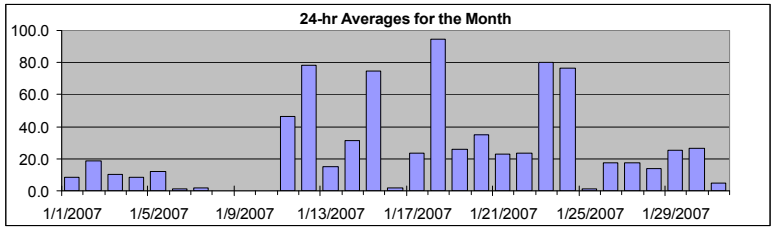
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	277.3	ppb	12-Jan	9:00 10:00
Maximum 24-hr Average:	94.4	ppb	18-Jan	



AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	190.7	126.8	38.3	6.6	1.0	0.0	0.0	27.5 ppb	6.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	84	63	24	4	1	1	1	1	0	1	0	2	3	2	2	A	0	0	0	0	1	0	0	0	8.3	83.6
2-Jan-07	0	0	0	13	2	2	6	49	34	38	44	6	4	3	A	3	4	2	35	45	61	73	10	0	18.8	72.7
3-Jan-07	0	0	0	0	0	0	0	0	0	1	3	4	12	A	19	4	5	6	25	17	53	41	17	31	10.4	52.8
4-Jan-07	13	15	10	3	4	6	10	47	52	14	3	3	P	4	2	1	1	1	1	1	1	1	0	0	8.5	51.8
5-Jan-07	0	0	0	0	6	A	11	10	8	4	18	17	23	16	10	3	4	12	16	1	1	26	69	18	11.9	68.9
6-Jan-07	1	0	0	0	0	A	0	0	0	1	3	2	2	2	2	2	1	1	1	1	1	1	0	0	1.0	2.9
7-Jan-07	7	3	1	1	A	0	1	1	0	1	3	5	10	6	1	1	1	0	0	0	0	0	0	0	1.9	10.5
8-Jan-07	0	0	0	A	0	1	1	1	5	7	1	C	C	C	C	C	A	N	N	N	N	N	N	N	N	6.5
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	1	2	2	2	2	2	1	1	1	1	1	3	10	18	N	18.3
11-Jan-07	6	6	5	A	9	47	35	76	107	86	49	33	63	41	46	27	12	15	36	77	98	106	49	31	46.1	107.1
12-Jan-07	15	20	A	18	54	74	78	117	187	277	170	78	61	54	67	84	120	125	123	55	12	11	3	2	78.4	277.3
13-Jan-07	0	A	0	0	0	1	3	3	4	4	5	6	7	6	7	8	11	28	121	69	30	12	6	6	14.8	121.4
14-Jan-07	A	3	2	2	5	22	23	46	24	26	41	84	50	62	53	46	29	22	21	24	41	50	17	A	31.6	83.9
15-Jan-07	60	42	68	116	137	47	5	40	152	139	143	127	67	114	60	32	57	121	145	30	7	12	A	1	74.8	152.0
16-Jan-07	1	1	1	0	0	1	1	1	2	2	4	9	7	3	4	2	2	1	1	1	1	1	1	0	1.8	8.6
17-Jan-07	9	33	6	1	1	A	3	9	48	75	38	20	13	21	17	22	50	17	17	21	12	37	33	44	23.7	75.3
18-Jan-07	75	93	42	9	A	19	57	77	106	73	115	92	96	92	93	147	155	123	130	201	111	140	57	70	94.4	200.7
19-Jan-07	47	24	14	A	7	2	29	50	59	27	93	26	8	3	6	4	3	3	3	1	27	82	63	16	26.0	93.3
20-Jan-07	39	27	A	71	29	14	27	47	52	86	82	36	37	26	22	30	48	83	27	4	2	6	6	4	35.0	85.5
21-Jan-07	1	A	42	79	38	20	22	30	46	11	10	22	19	53	20	11	2	1	2	1	2	17	30	47	22.9	79.4
22-Jan-07	A	1	0	0	0	0	33	80	113	137	111	8	7	9	12	5	2	2	2	1	1	0	0	A	23.8	137.5
23-Jan-07	0	0	0	0	0	0	5	36	93	226	215	84	56	35	36	56	142	241	218	142	138	44	A	75	80.2	241.5
24-Jan-07	84	60	47	3	1	6	38	60	79	79	90	132	128	129	80	91	173	198	143	100	34	A	5	3	76.6	198.0
25-Jan-07	9	1	2	0	0	0	0	0	1	1	2	2	2	0	1	1	1	3	2	1	A	1	0	0	1.3	8.9
26-Jan-07	0	0	0	0	0	0	1	2	5	14	7	5	9	8	10	10	14	44	150	A	23	8	54	35	17.4	149.8
27-Jan-07	10	2	1	2	2	2	20	14	15	16	18	21	20	19	24	22	32	151	A	5	2	1	0	0	17.3	151.2
28-Jan-07	0	0	0	0	0	0	2	0	1	29	7	15	20	11	20	16	39	A	51	42	43	23	1	2	14.0	51.2
29-Jan-07	0	0	0	0	0	1	2	18	57	55	12	18	8	6	11	19	A	29	94	164	44	39	5	1	25.4	163.5
30-Jan-07	0	0	0	0	0	0	2	1	1	1	3	2	2	3	9	A	8	11	22	52	62	131	134	160	26.2	160.0
31-Jan-07	76	2	9	3	0	3	2	0	1	1	1	2	1	1	A	2	1	1	1	1	0	0	0	0	4.6	76.4
Hourly Avg	20.0	14.6	10.2	12.5	11.0	10.3	14.4	28.3	43.2	49.3	43.2	29.7	26.3	26.1	23.6	24.0	32.8	44.3	49.5	37.8	28.9	31.0	21.2	20.9		
Hourly Max	84.3	92.6	67.5	115.7	137.0	73.9	77.9	116.9	186.9	277.3	215.2	131.8	127.5	129.1	93.1	146.8	173.0	241.5	218.3	200.7	137.6	139.8	133.6	160.0		

PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

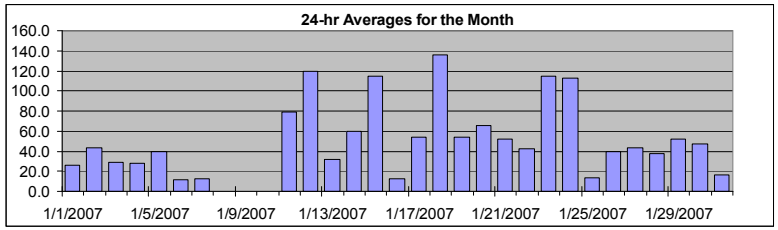
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	348.4	ppb	12-Jan	9:00 10:00
Maximum 24-hr Average:	136.0	ppb	18-Jan	



AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	241.8	170.3	73.5	31.4	12.2	4.5	1.8	51.7 ppb	31.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	130	110	63	32	19	15	22	25	18	21	11	17	19	15	16	A	5	5	5	5	13	13	8	8	25.8	130.3
2-Jan-07	4	9	16	48	30	27	36	89	71	76	82	24	18	17	A	23	26	24	68	78	92	102	28	9	43.2	102.5
3-Jan-07	4	2	1	1	2	2	4	7	7	11	14	15	32	A	50	23	30	32	67	58	99	85	57	71	29.3	98.8
4-Jan-07	49	51	44	32	32	38	42	87	96	43	16	14	P	11	10	9	10	11	9	8	7	8	6	7	27.8	95.7
5-Jan-07	5	11	12	18	34	A	50	44	41	31	55	49	55	43	30	18	30	49	54	25	30	63	112	48	39.5	112.0
6-Jan-07	20	9	4	3	3	A	11	10	12	18	17	10	8	7	10	10	9	9	10	13	19	20	18	22	11.9	22.4
7-Jan-07	35	28	16	15	A	17	15	9	7	11	20	22	32	22	6	7	7	7	6	3	2	2	3	2	12.8	34.8
8-Jan-07	1	1	1	A	18	19	19	16	28	34	7	C	C	C	C	C	A	N	N	N	N	N	N	N	N	33.8
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	4	5	6	6	6	6	6	7	7	5	7	19	38	52	N	51.8
11-Jan-07	35	35	32	A	37	86	73	120	150	123	77	54	95	67	73	51	37	47	70	116	138	145	83	63	78.6	149.9
12-Jan-07	44	50	A	48	87	117	115	161	238	348	225	118	99	92	110	130	170	176	172	97	44	44	30	24	119.1	348.4
13-Jan-07	4	A	14	11	4	9	12	11	16	13	14	13	15	14	17	22	35	64	165	108	64	42	31	34	31.7	165.1
14-Jan-07	A	28	22	22	31	53	52	77	50	51	68	119	76	91	82	74	58	52	50	53	71	82	45	A	59.4	118.6
15-Jan-07	95	74	105	159	183	83	33	83	208	192	194	177	110	165	99	67	95	166	193	66	34	46	A	10	114.6	207.9
16-Jan-07	15	30	20	8	6	7	8	13	14	15	16	25	19	8	12	8	13	11	8	8	9	10	15	13	13.0	30.1
17-Jan-07	33	72	30	12	11	A	30	38	88	118	74	43	30	44	39	51	92	48	53	60	47	77	72	83	54.2	117.8
18-Jan-07	116	133	83	43	A	54	94	115	145	109	154	128	134	131	136	197	208	170	177	253	155	187	96	109	136.0	252.7
19-Jan-07	86	60	49	A	39	30	65	89	98	54	133	48	20	11	17	13	18	23	21	23	67	126	102	51	53.9	132.7
20-Jan-07	77	64	A	113	63	44	58	80	85	122	115	61	64	49	44	58	82	126	65	27	19	30	33	31	65.7	126.0
21-Jan-07	19	A	79	124	79	55	61	65	82	37	35	50	42	88	48	33	14	11	24	19	27	51	66	85	51.8	123.8
22-Jan-07	A	19	14	15	14	12	69	123	156	179	150	26	21	24	28	16	12	9	10	21	15	5	5	A	42.9	178.9
23-Jan-07	4	3	5	3	8	14	30	79	141	288	276	128	97	68	71	97	190	296	269	190	183	84	A	116	114.8	296.1
24-Jan-07	125	100	83	25	16	27	67	91	110	108	119	170	167	169	114	132	224	249	193	152	78	A	43	39	113.1	249.2
25-Jan-07	50	24	30	27	16	4	8	7	6	9	10	6	6	2	3	3	6	24	23	13	A	12	11	12	13.6	50.3
26-Jan-07	10	6	9	8	9	6	16	18	30	44	25	16	23	22	28	32	46	89	202	A	64	42	94	73	39.5	202.1
27-Jan-07	45	28	27	27	27	27	52	44	47	43	40	45	41	40	48	49	68	202	A	37	31	18	6	4	43.3	201.8
28-Jan-07	2	12	14	14	9	13	31	19	22	66	23	36	45	30	45	43	79	A	96	87	87	58	21	15	37.6	95.6
29-Jan-07	9	8	9	12	16	24	34	57	101	94	34	38	20	17	28	46	A	70	143	215	85	78	32	23	51.7	214.8
30-Jan-07	6	5	6	5	10	12	20	23	10	7	12	7	6	9	24	A	33	47	66	98	110	185	184	211	47.7	211.5
31-Jan-07	118	32	41	27	14	21	19	4	5	7	6	7	6	6	A	9	7	9	9	9	8	5	2	0	16.2	118.2
Hourly Avg	42.3	37.2	30.6	32.8	30.2	31.3	39.5	55.3	71.8	78.3	67.5	50.7	46.6	45.3	44.2	45.5	57.5	72.6	79.9	66.0	57.3	58.5	45.9	45.0		
Hourly Max	130.3	133.4	104.5	158.6	182.8	116.8	115.5	160.6	238.1	348.4	275.7	177.2	166.7	169.4	136.0	196.8	223.8	296.1	268.9	252.7	183.1	186.5	183.8	211.5		

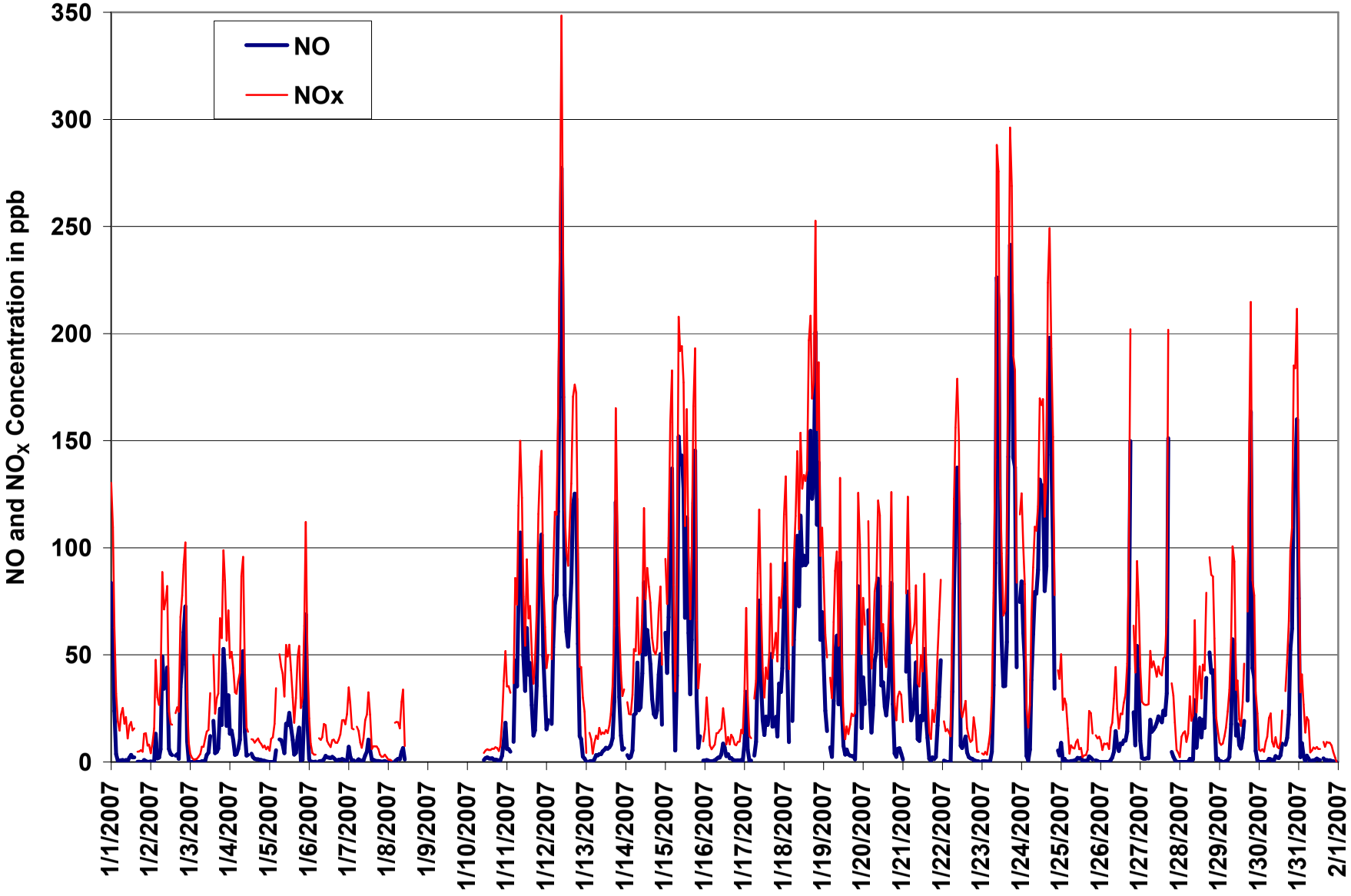


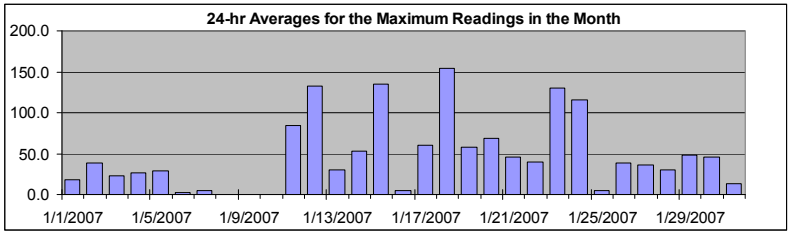
Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	408.1	ppb	23-Jan	18:00 19:00
Maximum 24-hr Value:	154.6	ppb	18-Jan	

AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	276.3	205.7	75.6	20.2	3.0	0.5	0.0	51.0 ppb	20.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

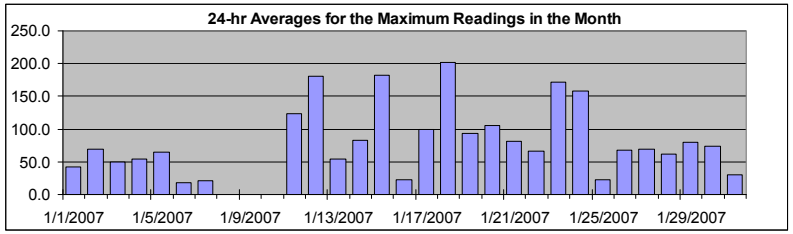
Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	133	98	87	18	7	7	10	3	2	3	1	4	8	5	5	A	1	1	0	0	10	3	1	1	17.6	133.2
2-Jan-07	6	1	7	22	8	19	40	75	72	58	74	20	6	6	A	16	8	5	66	88	140	93	69	1	39.1	139.8
3-Jan-07	0	0	0	0	0	0	1	1	1	3	34	61	20	A	35	16	15	27	44	36	70	83	36	52	23.3	83.0
4-Jan-07	39	38	32	12	9	14	30	124	224	49	6	8	P	17	3	3	3	3	2	2	1	1	1	1	26.9	224.5
5-Jan-07	1	1	0	3	41	A	34	29	19	12	37	35	64	26	43	7	8	35	31	2	2	56	117	73	29.3	117.1
6-Jan-07	6	1	1	1	1	A	1	1	1	3	4	3	3	2	4	3	2	1	2	2	3	2	1	1	2.1	6.0
7-Jan-07	25	11	2	3	A	1	3	2	1	3	6	13	27	12	2	2	1	1	1	1	1	1	2	1	5.2	26.5
8-Jan-07	1	1	0	A	1	4	9	3	13	16	5	C	C	C	C	C	A	N	N	N	N	N	N	N	N	15.9
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	2	9	7	3	5	5	3	5	3	2	3	6	29	42	N	41.7
11-Jan-07	18	17	14	A	39	109	51	166	172	173	83	50	104	80	66	45	35	24	95	109	174	186	79	59	84.8	186.3
12-Jan-07	28	32	A	29	125	130	100	190	239	382	274	228	102	81	110	142	184	217	248	102	49	44	10	6	132.6	381.7
13-Jan-07	1	A	1	3	0	11	11	14	16	14	15	20	13	12	14	23	24	78	181	151	53	22	12	17	30.6	180.9
14-Jan-07	A	7	4	5	20	45	35	75	71	44	74	142	61	81	80	62	45	42	38	43	61	95	26	A	52.5	142.4
15-Jan-07	86	62	97	139	234	210	16	153	254	229	209	188	96	151	154	45	125	206	202	123	32	87	A	2	134.7	254.0
16-Jan-07	7	5	2	1	1	1	2	3	13	4	7	12	15	4	7	3	3	2	1	1	2	2	5	3	4.4	14.5
17-Jan-07	119	93	29	6	7	A	23	41	128	128	91	42	24	31	28	30	89	57	34	28	25	82	120	120	59.8	128.4
18-Jan-07	114	122	59	31	A	52	109	199	185	108	206	172	142	123	137	204	220	212	209	281	215	194	131	131	154.6	280.8
19-Jan-07	67	68	25	A	28	8	80	77	98	114	183	84	16	5	14	12	11	8	22	5	55	141	129	89	58.2	182.7
20-Jan-07	93	76	A	119	58	38	64	67	87	178	163	73	64	33	34	57	96	123	58	16	16	27	29	16	68.9	177.5
21-Jan-07	3	A	114	109	55	38	41	48	54	47	25	35	66	100	40	24	4	1	8	18	7	52	62	104	45.9	113.8
22-Jan-07	A	7	1	0	1	0	60	130	162	229	160	20	18	25	33	11	6	4	3	3	1	1	0	A	39.8	228.9
23-Jan-07	0	0	0	0	1	2	32	70	206	326	289	138	77	68	67	131	228	304	408	203	235	84	A	134	130.6	408.1
24-Jan-07	115	98	67	12	3	28	89	80	112	101	114	194	195	199	119	114	229	238	304	151	82	A	18	10	116.2	304.4
25-Jan-07	24	8	17	2	1	0	1	1	2	3	4	3	5	1	2	1	2	6	7	2	A	2	2	1	4.2	23.5
26-Jan-07	0	0	2	3	3	4	6	15	23	113	15	14	15	13	16	15	33	84	228	A	61	54	110	64	38.8	227.6
27-Jan-07	26	13	11	5	12	13	59	31	42	54	32	35	38	26	32	37	62	229	A	53	17	15	1	0	36.6	229.0
28-Jan-07	0	2	2	2	2	1	8	3	13	79	11	24	33	21	65	31	73	A	117	74	74	57	2	7	30.4	117.1
29-Jan-07	2	5	1	0	6	10	9	39	94	87	24	26	19	13	19	37	A	77	163	221	116	104	25	2	47.7	220.6
30-Jan-07	0	0	0	0	1	1	7	4	2	1	6	3	3	7	17	A	18	27	57	101	121	259	172	255	46.1	259.0
31-Jan-07	203	5	25	15	2	23	9	1	3	2	2	3	2	2	A	4	2	2	2	2	1	3	0	0	13.7	203.1
Hourly Avg	41.3	28.6	22.2	20.8	24.6	29.6	32.4	56.8	79.7	88.3	71.9	57.2	44.4	40.9	42.5	40.0	54.6	72.1	90.5	64.9	58.0	62.7	43.9	44.1		
Hourly Max	203.1	121.7	113.8	139.5	233.6	210.0	109.1	199.2	254.0	381.7	288.9	227.6	195.5	198.8	153.9	204.4	229.4	303.8	408.1	280.8	234.9	259.0	171.6	254.8		

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	467.0	ppb	23-Jan	18:00 19:00
Maximum 24-hr Value:	202.0	ppb	18-Jan	

AIC Time:	30 hrs	Operational Time:	667 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	94.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	346.3	259.1	117.2	53.9	21.5	7.5	2.9	81.6 ppb	53.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	183	148	133	58	33	28	38	37	25	34	15	22	33	22	26	A	8	8	8	6	34	25	11	21	41.5	183.2
2-Jan-07	19	16	38	59	41	54	78	116	112	100	117	50	23	30	A	41	36	32	99	121	169	126	102	16	69.3	168.8
3-Jan-07	7	3	2	2	2	4	8	12	10	20	68	116	47	A	74	47	52	70	89	81	119	130	79	95	49.4	130.2
4-Jan-07	76	79	73	50	44	54	69	169	345	91	23	26	P	21	14	13	14	16	13	11	9	10	9	10	53.8	344.7
5-Jan-07	11	15	15	29	81	A	86	75	58	47	82	74	111	60	82	32	44	76	73	31	34	97	165	116	65.0	164.6
6-Jan-07	41	22	9	6	8	A	18	14	17	25	22	14	13	9	15	15	14	12	14	16	27	27	24	28	17.7	40.7
7-Jan-07	65	45	22	21	A	21	25	13	10	18	28	39	57	40	8	14	10	10	9	5	4	4	8	4	20.8	65.4
8-Jan-07	2	2	1	A	23	31	36	30	49	48	26	C	C	C	C	C	A	N	N	N	N	N	N	N	N	49.1
9-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Jan-07	N	N	N	N	N	N	N	N	N	N	8	19	14	8	13	15	11	16	11	7	16	31	68	79	N	78.8
11-Jan-07	50	45	47	A	80	156	95	217	223	219	116	75	148	118	98	78	69	57	133	149	218	234	117	96	123.4	234.4
12-Jan-07	57	63	A	60	176	174	143	246	287	465	349	282	148	128	162	197	239	272	309	148	90	84	44	38	181.1	464.6
13-Jan-07	10	A	28	21	6	32	28	27	38	26	27	35	24	26	28	44	60	121	229	197	88	55	41	46	53.8	228.9
14-Jan-07	A	33	29	26	51	77	65	105	101	70	108	186	90	115	114	93	77	73	69	72	94	132	54	A	83.5	186.4
15-Jan-07	123	96	138	185	282	260	58	213	308	290	260	248	138	207	208	83	173	252	256	170	75	131	A	27	182.0	308.2
16-Jan-07	48	44	32	17	11	12	11	21	28	21	23	32	36	12	20	15	16	15	12	11	14	15	31	33	22.0	47.7
17-Jan-07	166	143	66	26	38	A	57	83	171	177	138	76	51	58	56	66	134	99	76	70	66	122	172	164	98.8	176.7
18-Jan-07	156	164	100	69	A	94	148	233	230	147	258	222	195	167	188	259	279	267	264	338	271	248	177	173	202.0	337.8
19-Jan-07	109	110	64	A	65	41	122	120	141	153	234	119	35	15	33	32	39	41	60	36	94	189	166	129	93.4	234.2
20-Jan-07	133	122	A	167	97	70	98	99	131	222	208	105	98	59	61	92	133	168	99	54	35	63	66	55	105.9	221.7
21-Jan-07	29	A	152	161	98	77	81	84	94	84	56	68	102	141	73	56	26	15	44	53	39	91	102	144	81.2	161.2
22-Jan-07	A	42	25	21	21	16	98	178	212	280	211	50	41	53	62	31	20	16	15	32	24	7	7	A	66.5	280.0
23-Jan-07	6	5	7	5	12	26	76	117	263	402	358	190	129	110	110	187	281	363	467	253	284	127	A	181	172.1	467.0
24-Jan-07	158	140	105	44	21	58	126	111	145	132	147	244	241	244	157	156	292	289	361	206	132	A	63	58	157.7	361.2
25-Jan-07	70	37	57	37	35	7	11	11	11	18	22	10	14	4	6	5	15	39	37	21	A	20	18	18	22.7	69.6
26-Jan-07	16	9	15	12	18	20	33	44	57	179	34	31	36	32	39	45	78	129	285	A	106	93	153	104	68.2	284.5
27-Jan-07	63	45	44	37	45	47	93	64	75	89	58	65	69	53	60	69	104	285	A	90	62	47	11	6	68.7	284.5
28-Jan-07	5	35	21	28	23	25	45	35	48	131	34	51	65	45	105	65	119	A	163	120	121	99	26	26	62.5	163.2
29-Jan-07	14	15	11	20	29	37	50	80	139	130	52	51	40	31	43	71	A	127	213	276	161	146	60	30	79.4	275.8
30-Jan-07	15	6	8	7	16	22	42	37	16	10	22	9	9	20	41	A	54	72	101	148	169	329	223	312	73.3	329.4
31-Jan-07	255	39	66	51	25	60	42	7	13	12	11	12	11	10	A	16	12	14	13	14	11	9	3	2	30.8	254.7
Hourly Avg	69.9	56.4	48.4	47.0	51.2	57.9	64.9	89.5	115.8	125.4	103.9	86.9	72.0	65.7	70.2	67.9	86.1	105.5	125.8	97.7	91.7	96.2	74.1	74.4		
Hourly Max	254.7	164.1	151.8	185.5	282.2	260.4	148.2	246.0	344.7	464.6	358.5	281.7	240.8	244.2	208.2	259.5	292.1	362.9	467.0	337.8	283.8	329.4	222.6	312.1		

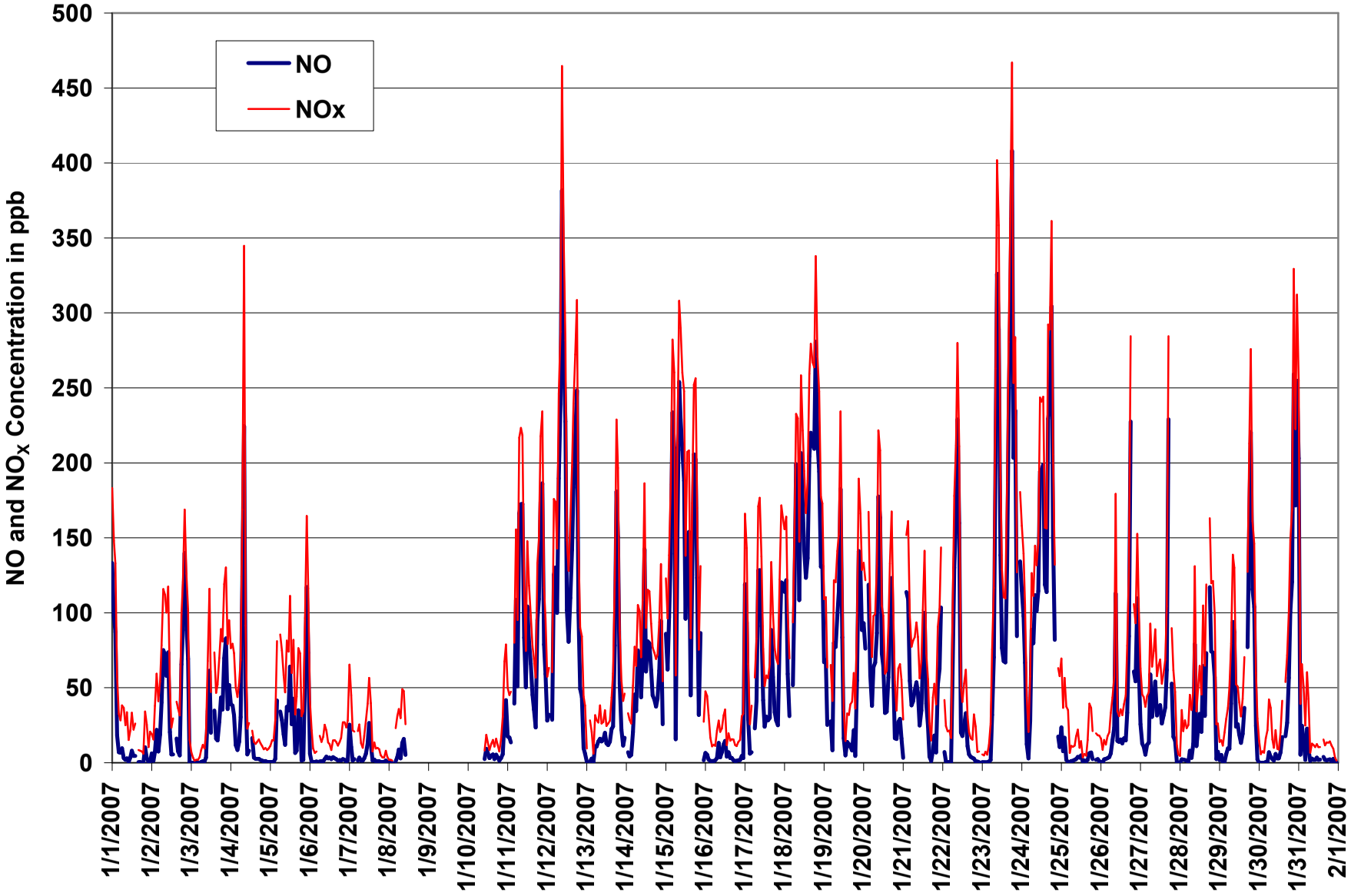


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker - Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O_3)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

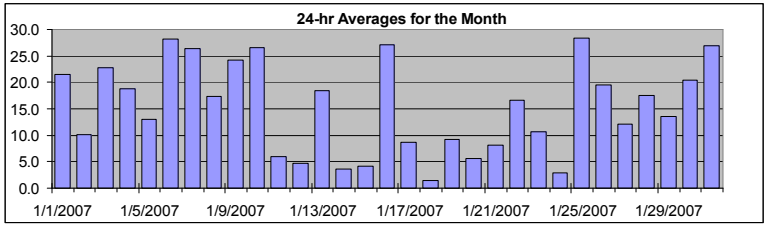
Objective Limit: **Alberta Environment:** 1-hr 82 ppb | 24-hr na ppb

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	39.1	ppb	28-Jan	0:00 1:00
Maximum 24-hr Average:	28.3	ppb	25-Jan	

AIC Time:	32 hrs	Operational Time:	706 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average	Median
	37.7	34.7	27.3	13.9	2.6	0.0	0.0	15.3 ppb	13.9 ppb



Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	3	9	20	24	16	13	21	20	29	25	25	27	27	A	34	33	31	32	24	23	27	28	21.4	34.3
2-Jan-07	32	26	17	1	6	10	5	0	0	0	2	17	20	19	A	14	11	10	0	0	0	0	15	27	10.1	31.9
3-Jan-07	36	38	39	38	38	37	37	34	34	30	30	31	22	A	15	24	17	16	2	2	0	0	1	0	22.7	38.9
4-Jan-07	1	1	2	5	5	3	1	0	1	9	25	27	P	34	32	34	32	30	31	32	33	32	33	31	18.8	33.6
5-Jan-07	33	28	27	21	10	A	4	7	7	12	7	11	12	15	22	26	16	5	3	14	9	3	0	9	13.1	33.1
6-Jan-07	17	27	31	32	35	A	31	31	30	25	28	34	34	34	32	30	31	30	29	26	21	20	21	16	28.1	34.8
7-Jan-07	10	12	22	21	A	21	23	30	32	28	22	21	17	23	33	31	30	30	30	34	35	36	35	31	26.4	35.9
8-Jan-07	35	35	35	A	20	21	22	25	18	14	32	28	27	27	27	13	2	1	1	0	1	0	1	13	17.3	35.3
9-Jan-07	20	20	27	28	28	A	27	23	21	22	26	26	24	23	25	22	21	23	24	24	25	25	26	27	24.2	28.4
10-Jan-07	28	29	30	30	A	30	30	30	30	29	30	30	30	30	30	29	29	28	27	28	26	18	9	4	26.6	30.3
11-Jan-07	5	5	5	A	7	3	2	3	3	4	7	13	12	14	13	12	10	3	3	4	4	3	3	3	6.0	13.5
12-Jan-07	3	3	A	2	3	3	3	3	3	5	5	8	10	11	9	4	2	2	1	0	5	4	8	14	4.8	13.6
13-Jan-07	35	A	26	28	33	29	26	27	21	25	25	26	25	26	23	20	11	3	1	1	1	3	6	3	18.4	34.6
14-Jan-07	A	6	8	9	3	0	1	1	2	2	5	6	9	9	8	6	3	1	0	0	0	0	0	A	3.6	9.1
15-Jan-07	1	0	0	0	0	6	14	4	0	0	1	2	3	2	5	4	0	0	0	3	12	6	A	31	4.1	31.4
16-Jan-07	25	10	20	31	33	32	31	27	28	26	27	C	C	C	A	32	29	29	30	30	28	28	23	23	27.1	32.9
17-Jan-07	13	1	10	22	24	A	10	7	0	0	6	15	20	18	18	12	2	8	4	2	4	2	2	1	8.8	23.7
18-Jan-07	1	1	0	1	A	1	0	0	0	1	3	6	6	5	4	2	1	0	0	1	0	0	0	0	1.4	6.0
19-Jan-07	0	0	0	A	1	4	0	0	0	6	3	14	24	29	27	27	22	18	19	16	0	0	0	0	9.1	29.4
20-Jan-07	0	0	A	0	1	1	0	0	0	1	4	9	12	14	14	9	2	0	1	13	18	11	9	9	5.6	18.1
21-Jan-07	19	A	1	0	0	0	0	0	0	8	8	8	13	5	11	16	24	26	14	19	12	3	0	1	8.2	26.1
22-Jan-07	A	13	15	12	11	11	1	0	0	0	1	19	22	22	20	24	26	29	29	18	24	34	35	A	16.6	34.7
23-Jan-07	35	36	34	35	29	24	15	0	0	0	1	3	7	11	9	4	1	0	0	0	0	0	A	0	10.6	35.6
24-Jan-07	D	D	0	5	11	4	0	0	0	0	1	2	2	3	4	3	1	0	0	0	3	A	10	11	2.9	11.4
25-Jan-07	3	17	10	14	28	36	32	32	34	32	34	37	37	39	38	39	36	20	21	28	A	29	29	26	28.3	39.1
26-Jan-07	28	32	29	29	30	33	24	23	15	13	23	29	28	29	26	23	14	2	2	A	4	8	2	1	19.5	33.0
27-Jan-07	2	7	8	9	8	9	3	3	3	7	13	15	16	17	15	12	5	2	A	14	15	25	35	37	12.2	37.3
28-Jan-07	39	30	27	25	29	26	11	21	18	5	23	22	20	23	17	15	5	A	0	0	0	5	18	26	17.6	39.1
29-Jan-07	31	31	29	26	23	16	7	0	0	3	17	18	26	28	23	15	A	2	0	0	0	0	6	13	13.6	30.9
30-Jan-07	31	32	31	32	28	26	19	17	29	32	30	33	35	34	27	A	19	8	2	1	0	0	1	1	20.4	34.6
31-Jan-07	0	3	4	9	19	16	20	35	35	34	35	35	36	36	A	34	35	32	32	32	32	35	36	36	27.0	36.2
Hourly Avg	17.2	15.8	16.9	17.0	17.3	15.7	13.3	12.7	12.4	12.7	16.2	18.9	19.8	20.9	19.8	18.5	15.7	13.0	11.3	12.5	11.2	11.8	13.5	14.6		
Hourly Max	39.1	37.7	38.9	38.5	38.2	37.4	36.6	34.8	34.7	33.8	34.9	37.3	36.6	39.1	38.5	38.7	36.1	32.9	32.2	34.0	35.4	35.9	36.2	37.3		

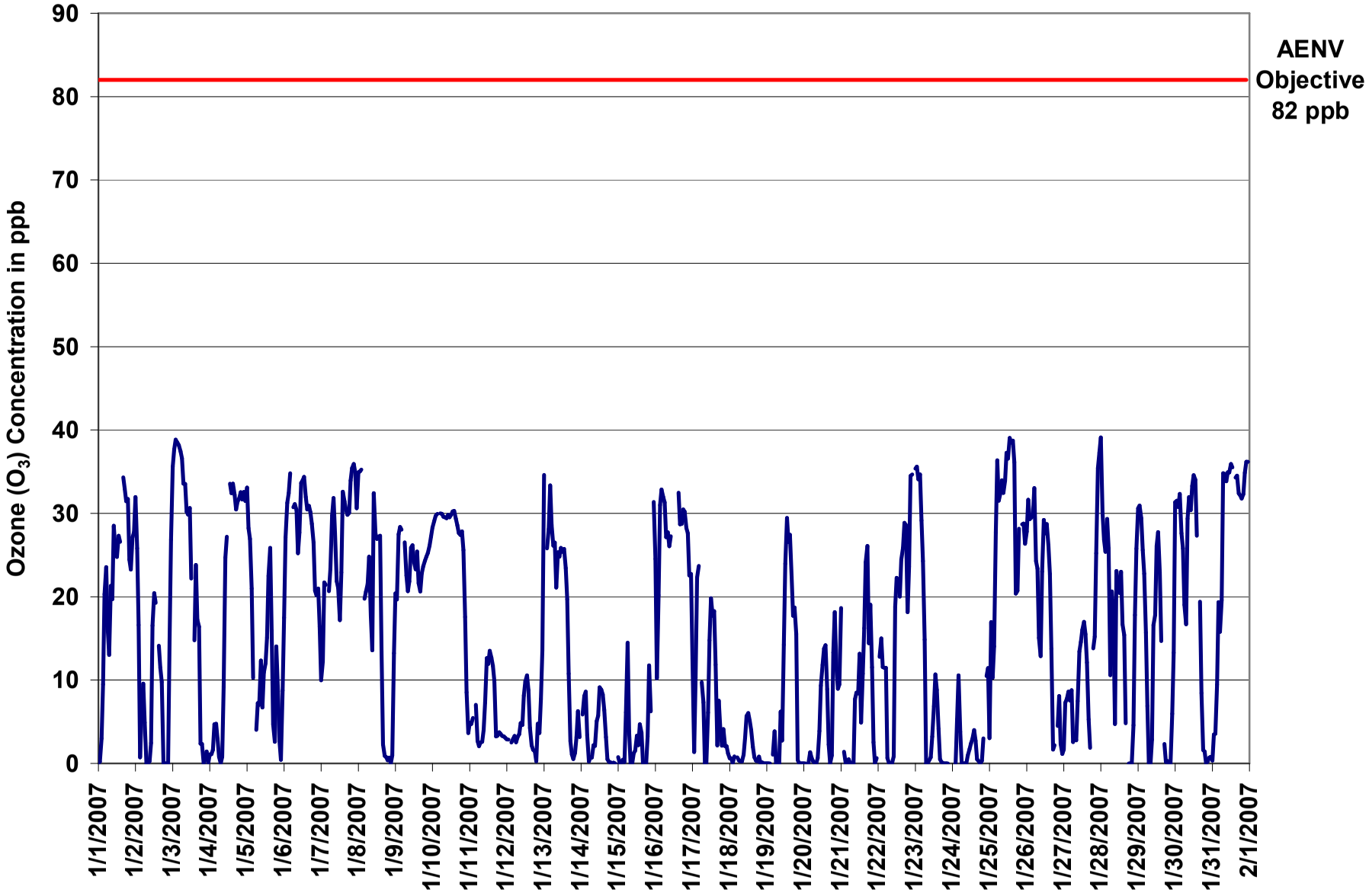


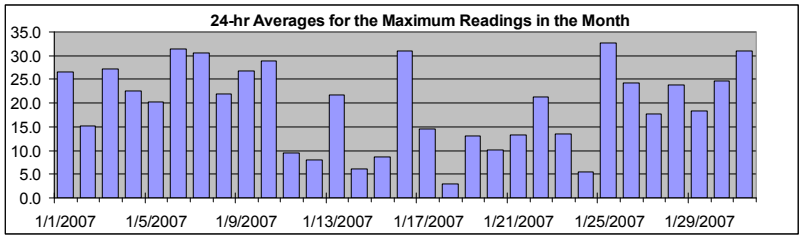
Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	40.4	ppb	28-Jan	0:00 1:00
Maximum 24-hr Value:	32.8	ppb	25-Jan	

AIC Time:	32 hrs	Operational Time:	706 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average	Median
	39.7	36.5	31.0	22.2	6.4	0.8	0.1	19.5 ppb	22.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	3	3	11	20	27	29	24	25	25	27	31	28	32	30	32	A	36	35	34	34	32	28	30	36	26.6	36.4
2-Jan-07	35	32	21	10	16	19	14	0	1	2	7	23	24	24	A	25	15	19	4	1	1	0	25	34	15.3	34.5
3-Jan-07	38	39	40	40	40	39	38	36	35	34	36	37	32	A	19	36	23	27	10	6	1	2	13	2	27.1	40.1
4-Jan-07	5	6	8	8	10	8	4	1	7	25	30	30	P	35	35	35	35	33	34	34	35	33	35	34	22.7	35.5
5-Jan-07	36	34	29	27	29	A	12	15	12	19	11	18	19	22	32	33	26	9	13	20	13	13	3	21	20.3	35.9
6-Jan-07	29	31	34	34	36	A	34	33	35	28	33	35	36	35	34	32	32	32	30	30	26	24	26	22	31.4	36.4
7-Jan-07	22	19	26	25	A	26	33	32	34	31	26	27	24	32	34	34	32	32	33	35	37	37	37	36	30.6	37.5
8-Jan-07	36	36	36	A	24	26	30	29	29	26	36	33	30	34	35	23	7	2	2	2	2	1	8	21	22.0	36.2
9-Jan-07	24	26	30	31	30	A	29	26	23	24	29	29	27	27	28	25	25	24	25	25	26	26	27	28	26.7	30.7
10-Jan-07	29	30	31	31	A	31	31	31	31	31	31	31	31	32	32	32	31	30	29	29	29	26	18	8	28.8	32.0
11-Jan-07	8	8	15	A	11	5	3	5	4	10	12	15	16	17	15	14	14	9	5	6	9	5	5	6	9.5	17.1
12-Jan-07	4	4	A	4	4	5	4	6	8	9	8	13	13	14	14	6	5	3	3	1	10	8	12	27	8.0	26.7
13-Jan-07	38	A	33	34	35	33	29	30	26	28	27	27	28	28	26	24	20	7	3	1	2	5	10	7	21.8	37.8
14-Jan-07	A	11	12	11	9	3	3	4	8	5	7	9	11	11	10	8	6	2	1	1	1	1	0	A	6.1	12.5
15-Jan-07	2	1	1	1	1	28	24	14	1	1	2	2	6	3	12	6	2	1	1	15	22	16	A	36	8.7	35.9
16-Jan-07	35	17	30	35	36	34	34	32	30	30	31	C	C	C	A	34	31	31	33	33	30	30	28	29	31.1	36.3
17-Jan-07	23	10	21	26	28	A	16	18	1	1	9	21	23	21	24	15	6	18	16	4	9	9	11	7	14.6	27.5
18-Jan-07	3	2	1	4	A	3	2	1	1	2	6	8	7	7	5	4	2	2	2	2	1	2	2	0	3.0	8.1
19-Jan-07	1	0	0	A	2	7	1	1	8	15	4	23	29	31	31	31	29	30	27	22	5	1	2	1	13.1	31.4
20-Jan-07	0	1	A	0	7	5	4	0	0	2	12	13	17	16	19	18	10	1	4	20	25	24	17	17	10.2	25.2
21-Jan-07	26	A	11	0	0	3	1	0	0	15	11	15	16	7	14	31	30	29	27	26	23	12	2	4	13.2	31.0
22-Jan-07	A	16	18	16	15	14	10	0	0	1	8	24	29	29	32	29	30	31	31	29	33	37	36	A	21.4	37.5
23-Jan-07	37	37	36	36	34	29	28	5	1	2	2	8	9	15	13	7	2	1	2	3	1	0	A	1	13.4	36.8
24-Jan-07	D	D	1	11	14	10	0	0	0	1	2	3	4	4	5	6	2	3	2	2	11	A	17	20	5.5	19.7
25-Jan-07	11	24	16	22	40	39	34	35	37	36	39	39	40	40	40	40	39	28	28	32	A	33	33	30	32.8	40.0
26-Jan-07	31	34	32	32	35	36	31	31	24	21	30	33	32	32	30	30	22	4	3	A	9	12	6	4	24.1	35.7
27-Jan-07	4	12	13	18	12	17	12	10	7	15	19	18	22	20	18	15	12	4	A	26	28	32	37	39	17.8	38.8
28-Jan-07	40	39	31	32	35	32	17	27	27	16	29	30	30	30	21	24	11	A	1	1	2	17	25	29	23.9	40.4
29-Jan-07	34	34	32	31	27	22	15	4	0	13	25	23	30	31	30	18	A	9	3	1	1	1	14	23	18.3	33.8
30-Jan-07	33	32	33	33	31	31	29	28	32	34	34	34	36	36	34	A	30	28	6	6	1	2	2	2	24.7	36.3
31-Jan-07	4	8	15	22	23	23	34	36	36	36	36	37	38	37	A	37	36	36	35	34	36	37	37	38	30.9	38.1
Hourly Avg	21.1	19.6	21.3	21.3	21.8	20.6	18.8	16.5	15.7	17.5	20.2	22.8	23.8	24.1	24.1	23.2	20.0	17.3	14.9	16.1	15.4	15.8	17.9	19.4		
Hourly Max	40.4	39.3	40.1	40.0	39.9	38.8	38.2	35.8	36.5	36.4	39.0	39.0	39.6	40.0	39.7	39.9	38.9	35.8	35.2	35.4	37.0	37.5	37.5	38.8		

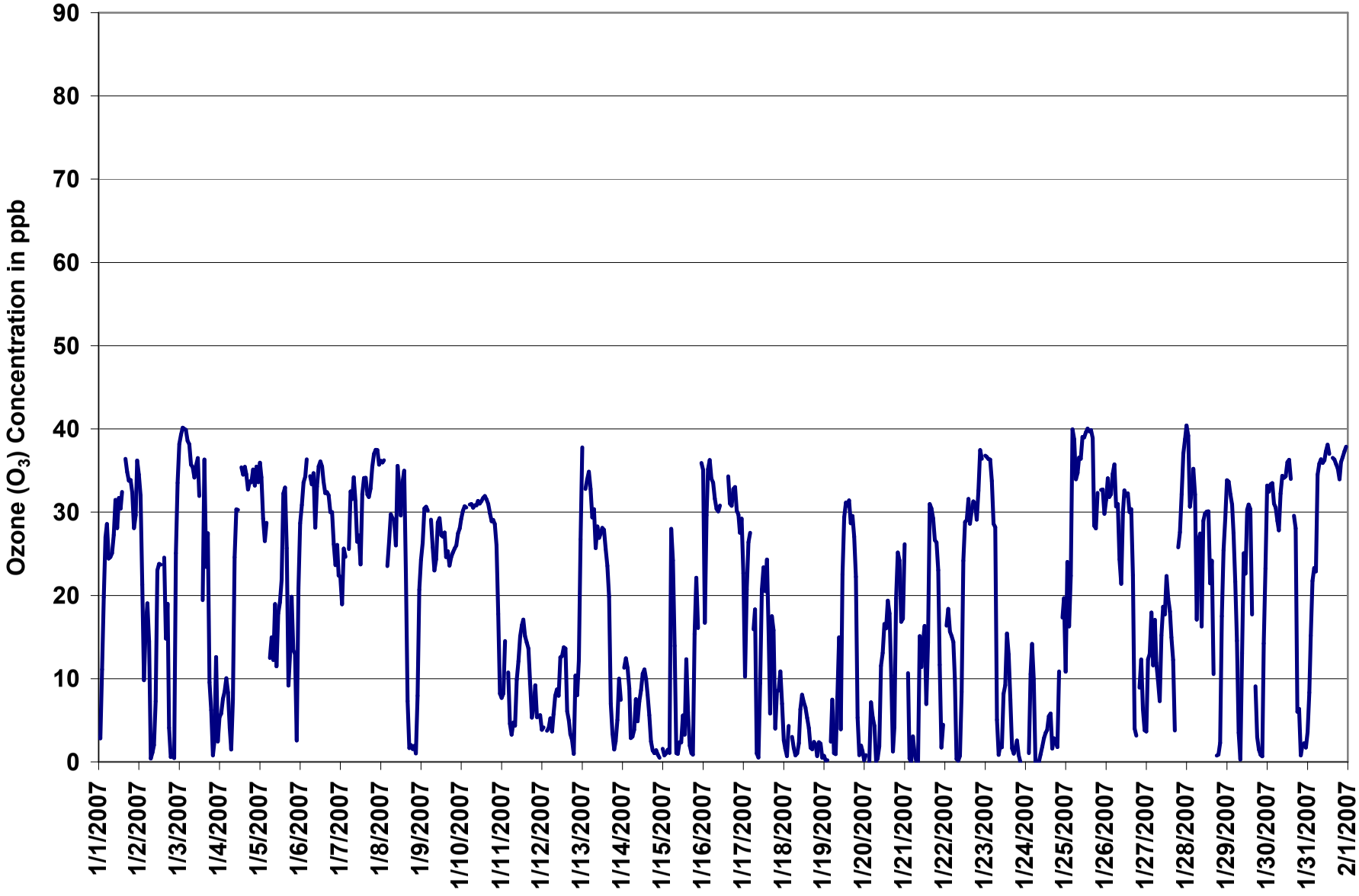
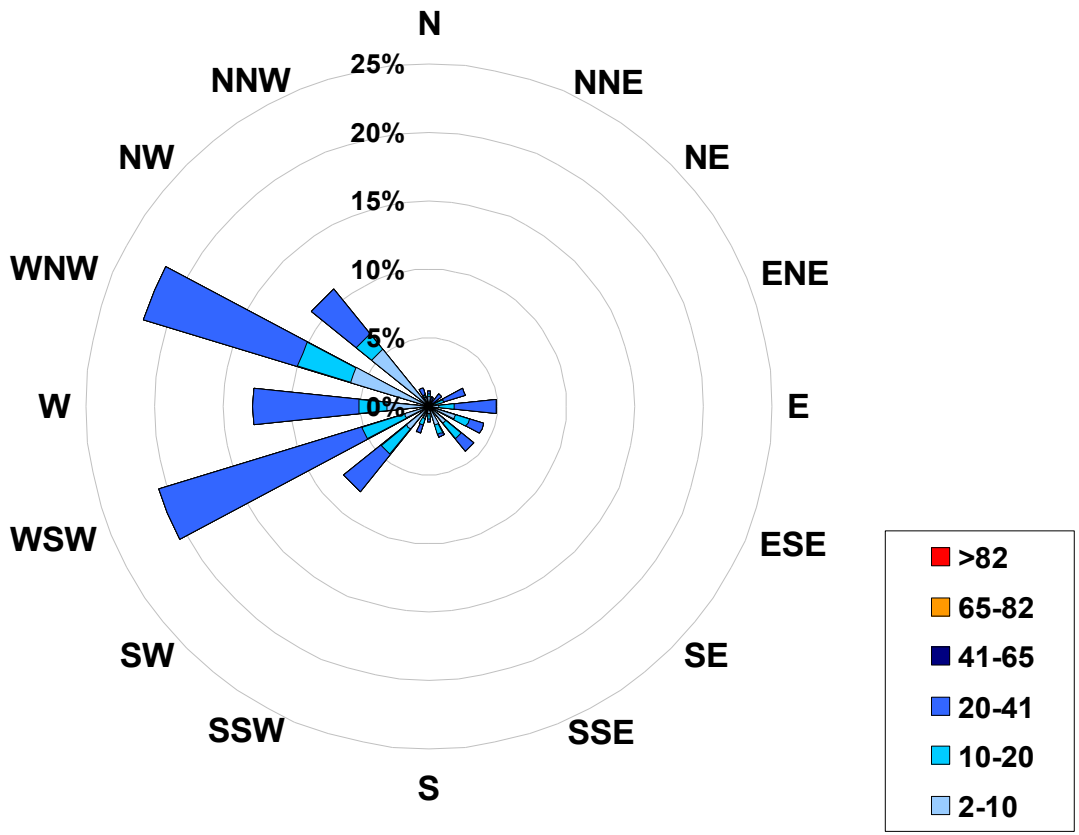


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	307
10	to	20	108
20	to	41	291
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			706

PASZA - Henry Pirker - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

Station: Henry Pirker
Station Owner: PASZA

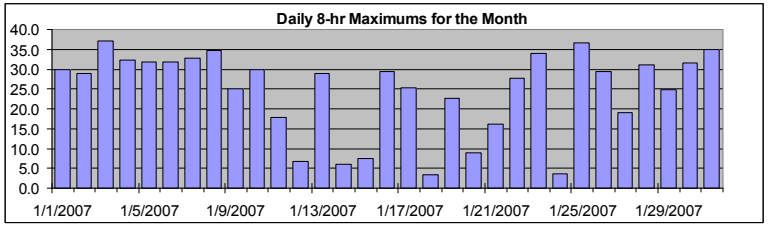
Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	37.1	ppb	3-Jan	7:00 8:00

Percentile	99	95	75	50	25	5	1
	35.0	32.3	25.2	13.0	4.9	1.0	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	3	2	2	2	5	7	9	11	13	16	19	21	22	22	23	25	27	29	29	30	30	29	29	29	29.9
2-Jan-07	29	28	26	22	20	18	15	12	8	5	3	5	7	8	8	10	12	13	13	11	8	5	6	8	28.8
3-Jan-07	11	14	19	24	29	33	36	37	37	36	35	34	32	31	28	26	24	22	18	14	11	10	8	5	37.1
4-Jan-07	3	1	1	1	2	2	2	2	2	3	6	9	9	14	18	23	28	31	32	32	32	32	32	32	32.2
5-Jan-07	32	32	31	30	27	26	22	19	15	13	10	8	9	9	12	14	15	14	14	14	14	12	9	7	31.9
6-Jan-07	7	10	14	16	19	22	26	29	31	31	30	31	30	31	31	31	31	32	32	31	29	27	26	24	31.8
7-Jan-07	22	19	19	18	18	18	18	20	23	25	25	25	24	24	26	26	26	26	27	29	31	32	33	33	32.7
8-Jan-07	33	34	35	35	32	30	28	27	25	22	21	22	23	24	25	23	21	20	16	12	9	6	2	2	34.6
9-Jan-07	5	7	10	14	17	20	23	25	25	25	25	25	24	24	24	24	24	24	23	23	23	24	24	24	25.1
10-Jan-07	25	26	27	28	28	29	29	30	30	30	30	30	30	30	30	30	30	29	29	29	28	27	24	21	29.8
11-Jan-07	18	15	12	10	7	5	4	4	4	4	4	5	6	7	8	10	10	10	10	9	8	6	5	4	17.9
12-Jan-07	3	3	3	3	3	3	3	3	3	3	3	4	5	6	7	7	7	6	6	5	4	3	3	4	6.8
13-Jan-07	8	9	13	17	21	25	27	29	27	27	27	26	25	25	25	24	23	20	17	14	11	8	6	4	29.0
14-Jan-07	3	3	4	5	6	5	4	4	4	3	3	3	3	4	5	6	6	6	5	5	3	2	1	1	6.1
15-Jan-07	0	0	0	0	0	1	3	3	3	3	3	3	4	3	2	2	2	2	2	2	3	4	4	8	7.5
16-Jan-07	11	12	15	19	22	26	27	26	27	29	29	29	N	N	N	N	N	N	N	N	N	29	29	27	29.5
17-Jan-07	25	22	19	18	18	16	15	12	11	10	10	9	8	9	10	11	11	12	12	10	9	7	5	3	25.4
18-Jan-07	3	2	2	1	1	1	1	0	0	1	1	2	2	3	3	3	3	3	3	2	2	1	1	0	3.5
19-Jan-07	0	0	0	0	0	1	1	1	1	2	2	4	6	10	13	16	19	21	23	23	20	16	13	9	22.7
20-Jan-07	7	4	2	0	0	0	0	0	0	0	1	2	3	5	7	8	8	8	8	8	9	9	8	8	8.9
21-Jan-07	10	12	12	10	7	6	4	3	0	1	2	3	5	5	7	9	12	14	15	16	16	16	14	12	16.1
22-Jan-07	11	9	9	8	8	9	9	9	8	6	4	5	7	8	10	14	17	20	24	24	24	26	27	28	27.7
23-Jan-07	29	30	31	33	34	33	30	26	22	17	13	9	6	5	4	4	4	4	4	4	3	2	1	0	34.0
24-Jan-07	N	N	N	N	N	N	N	N	3	2	3	2	1	1	2	2	2	2	2	2	2	2	2	4	3.7
25-Jan-07	4	6	8	10	13	16	19	22	25	27	30	33	34	35	36	36	37	35	33	32	32	30	29	27	36.6
26-Jan-07	26	27	29	29	29	30	29	29	27	25	24	24	24	23	23	23	23	22	19	18	14	11	8	5	29.5
27-Jan-07	3	4	5	5	6	6	6	6	6	6	7	8	9	10	11	12	13	12	12	12	12	13	16	19	19.2
28-Jan-07	24	28	28	29	31	31	28	26	23	20	20	19	18	18	19	18	16	18	15	11	9	6	6	8	31.2
29-Jan-07	11	14	17	21	23	25	23	20	16	13	11	10	11	12	14	16	18	18	16	13	10	6	3	3	24.8
30-Jan-07	7	10	14	18	22	25	26	27	27	27	27	27	28	29	30	32	30	27	23	18	13	8	5	4	31.6
31-Jan-07	2	1	1	2	5	7	9	13	18	21	25	28	31	33	35	35	35	35	34	34	33	33	34	34	35.0
Hourly Max	33.2	33.9	34.5	34.6	34.0	33.5	36.2	37.1	36.8	35.9	34.7	33.8	34.3	34.6	35.5	36.3	36.6	35.1	34.2	33.8	33.3	33.2	33.6	33.8	

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

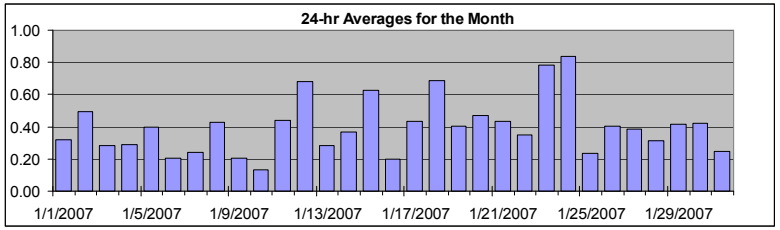
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	2.3	ppm	23-Jan	17:00 18:00
Maximum 24-hr Value:	0.8	ppm	24-Jan	



AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	1.0	0.5	0.3	0.2	0.2	0.1	0.4 ppm	0.3 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	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-Jan-07	1.1	1.0	0.6	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.32	1.11
2-Jan-07	0.2	0.2	0.3	0.4	0.3	0.3	0.4	1.0	0.8	0.8	0.8	0.3	0.3	0.3	A	0.3	0.4	0.3	0.7	0.8	1.0	0.9	0.3	0.2	0.50	1.01
3-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.2	0.3	0.3	0.5	0.4	0.6	0.6	0.4	0.5	0.28	0.59
4-Jan-07	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.9	0.7	0.3	0.2	0.2	P	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29	0.87
5-Jan-07	0.2	0.2	0.2	0.2	0.2	A	0.5	0.4	0.4	0.3	0.4	0.4	0.4	C	C	C	A	0.4	0.5	0.3	0.3	0.7	1.0	0.5	0.39	0.98
6-Jan-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.20	0.30
7-Jan-07	0.4	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.24	0.43
8-Jan-07	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.7	1.5	1.6	0.8	0.9	0.8	0.6	0.3	0.43	1.62
9-Jan-07	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.20	0.32
10-Jan-07	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.13	0.28
11-Jan-07	0.3	0.2	0.2	A	0.3	0.4	0.4	0.7	0.8	0.5	0.4	0.3	0.5	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.8	0.7	0.5	0.3	0.44	0.83
12-Jan-07	0.3	0.3	A	0.3	0.4	0.5	0.5	1.1	1.9	2.2	1.1	0.5	0.5	0.6	0.5	0.5	0.9	1.0	0.8	0.4	0.3	0.3	0.3	0.3	0.68	2.23
13-Jan-07	0.2	A	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.6	0.8	0.4	0.4	0.3	0.2	0.2	0.28	0.76
14-Jan-07	A	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	A	0.37	0.59
15-Jan-07	0.7	0.4	0.5	0.7	0.8	0.4	0.2	0.4	1.1	0.9	1.1	0.9	0.6	0.7	0.5	0.4	0.5	1.2	1.2	0.4	0.3	0.3	A	0.2	0.63	1.20
16-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.24
17-Jan-07	0.3	0.4	0.3	0.2	0.2	A	0.4	0.6	0.9	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.4	0.4	0.4	0.3	0.5	0.5	0.9	0.43	0.87
18-Jan-07	0.9	1.0	0.5	0.3	A	0.4	0.6	0.6	0.8	0.4	0.6	0.5	0.6	0.6	0.6	0.8	1.0	0.9	0.8	1.2	0.7	0.9	0.6	0.6	0.69	1.22
19-Jan-07	0.5	0.4	0.3	A	0.3	0.3	0.5	0.7	0.8	0.3	0.7	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	0.7	0.4	0.40	0.88
20-Jan-07	0.5	0.4	A	0.5	0.4	0.3	0.5	0.5	0.7	0.9	0.8	0.5	0.4	0.4	0.4	0.4	0.5	0.8	0.5	0.3	0.2	0.4	0.3	0.3	0.47	0.95
21-Jan-07	0.2	A	1.0	0.8	0.6	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.6	0.6	0.8	0.43	0.95
22-Jan-07	A	0.3	0.2	0.2	0.2	0.2	0.4	0.6	1.0	1.1	0.8	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.35	1.09
23-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	1.1	1.3	1.4	0.9	0.7	0.4	0.4	0.8	1.8	2.3	2.1	1.0	0.9	0.5	A	0.6	0.79	2.33
24-Jan-07	0.7	0.5	0.5	0.3	0.3	0.3	0.5	0.7	1.2	1.0	0.9	0.9	0.9	1.0	0.7	0.8	1.3	1.9	1.6	1.4	0.8	A	0.5	0.5	0.84	1.85
25-Jan-07	0.6	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	0.3	0.2	A	0.2	0.2	0.2	0.24	0.57
26-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.7	1.7	A	0.6	0.4	0.6	0.5	0.40	1.73
27-Jan-07	0.3	0.3	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	1.5	A	0.3	0.3	0.2	0.2	0.2	0.38	1.46
28-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.6	A	0.6	0.6	0.6	0.4	0.3	0.3	0.31	0.57
29-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.3	0.4	A	0.6	1.3	1.5	0.5	0.5	0.3	0.3	0.41	1.53
30-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.4	0.5	0.8	0.8	1.1	1.2	1.4	0.42	1.40
31-Jan-07	0.8	0.3	0.3	0.3	0.2	0.3	0.3	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	0.2	0.2	0.2	0.2	0.25	0.85
Hourly Avg	0.36	0.31	0.29	0.28	0.26	0.27	0.32	0.43	0.54	0.49	0.45	0.37	0.36	0.35	0.33	0.35	0.46	0.60	0.63	0.47	0.44	0.45	0.39	0.37		
Hourly Max	1.11	0.99	0.95	0.80	0.81	0.50	0.63	1.10	1.93	2.23	1.38	0.95	0.95	0.99	0.68	0.83	1.78	2.33	2.08	1.53	0.98	1.10	1.20	1.40		

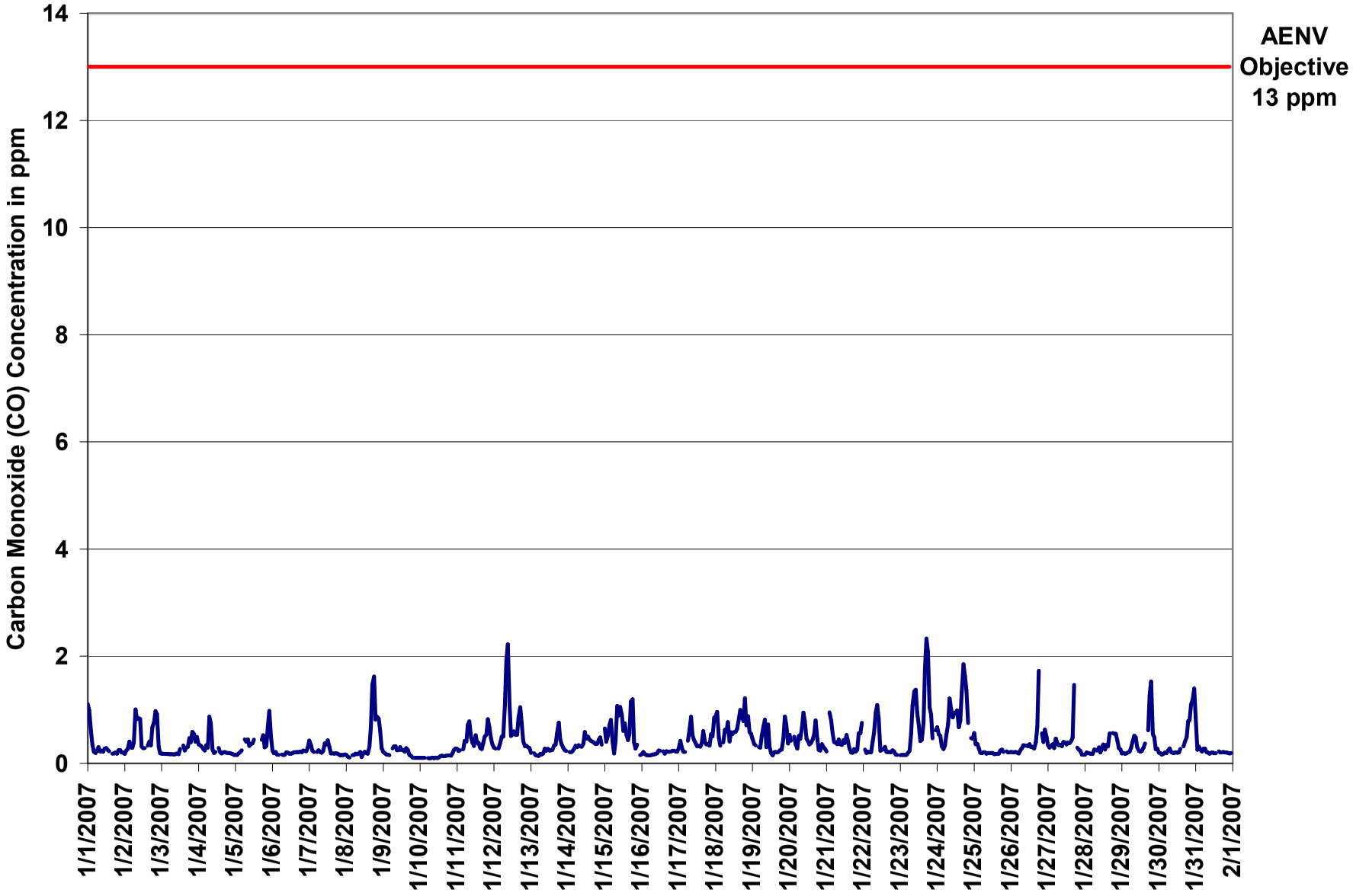


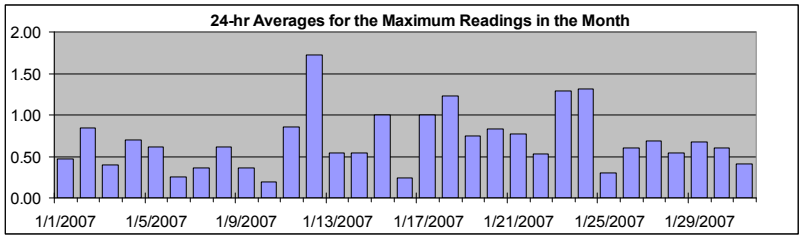
Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	10.2	ppm	12-Jan	8:00 9:00
Maximum 24-hr Value:	1.7	ppm	12-Jan	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.9	0.8	0.5	0.3	0.2	0.1	0.7 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**

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-Jan-07	1.5	1.4	1.2	0.6	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	A	0.2	0.2	0.3	0.2	0.6	0.3	0.3	0.3	0.47	1.51
2-Jan-07	0.2	0.5	0.3	0.6	0.4	0.5	0.7	1.5	1.2	2.1	1.7	0.5	0.4	0.5	A	0.4	0.7	0.5	1.0	1.7	1.9	1.0	0.7	0.2	0.84	2.14
3-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	A	0.4	0.4	0.4	0.5	0.7	0.5	0.9	1.1	0.8	0.6	0.40	1.13
4-Jan-07	0.6	0.4	0.4	0.7	0.4	1.2	0.6	4.4	3.3	0.5	0.3	0.3	P	0.7	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.69	4.41
5-Jan-07	0.2	0.2	0.2	0.3	0.4	A	0.8	0.6	0.7	0.6	0.4	0.6	0.7	C	C	C	A	0.6	0.8	0.4	0.4	1.5	1.4	1.1	0.62	1.51
6-Jan-07	0.4	0.3	0.4	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.26	0.41
7-Jan-07	0.7	0.5	0.3	0.3	A	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.8	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.36	0.80
8-Jan-07	0.2	0.2	0.2	A	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.6	1.1	2.2	2.3	1.0	1.1	1.0	1.0	0.4	0.61	2.27
9-Jan-07	0.3	0.2	0.3	0.3	0.2	A	0.6	0.6	0.7	0.4	0.7	0.9	0.3	0.5	0.4	0.5	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.36	0.90
10-Jan-07	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.19	0.38
11-Jan-07	0.3	0.4	0.3	A	0.5	1.0	0.8	1.9	2.0	0.8	1.2	0.5	0.8	0.6	0.9	0.4	0.5	0.5	0.8	0.7	2.4	1.1	0.7	0.6	0.86	2.41
12-Jan-07	0.4	0.3	A	0.4	0.6	1.8	1.1	5.4	10.2	2.9	1.7	0.8	1.3	1.2	0.9	0.9	3.2	1.9	1.6	0.6	0.5	0.6	0.8	0.5	1.72	10.24
13-Jan-07	0.3	A	0.3	0.2	0.2	0.2	0.7	0.2	0.3	0.9	0.6	1.3	0.4	0.4	0.3	0.9	0.5	1.0	1.2	0.7	0.5	0.4	0.5	0.3	0.54	1.34
14-Jan-07	A	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.5	0.5	0.6	1.0	0.7	0.7	0.6	0.6	0.8	0.6	0.5	0.5	0.6	0.7	0.5	A	0.55	0.96
15-Jan-07	1.0	0.5	0.6	0.9	1.0	0.9	0.2	1.3	1.9	1.3	1.8	1.4	0.8	1.0	1.0	0.6	0.9	2.0	2.2	0.9	0.5	0.6	A	0.2	1.00	2.16
16-Jan-07	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.24	0.34
17-Jan-07	0.4	0.6	0.4	0.3	0.4	A	1.0	4.0	1.5	1.0	0.6	0.5	0.4	0.4	0.4	0.5	0.8	0.7	0.5	0.5	0.4	1.0	0.8	5.8	1.00	5.84
18-Jan-07	1.2	1.3	0.6	0.4	A	1.0	1.9	1.0	1.8	0.8	0.9	1.1	0.9	0.8	1.1	1.1	1.9	1.9	1.4	2.0	1.1	1.4	1.7	1.1	1.23	1.97
19-Jan-07	0.8	0.6	0.4	A	0.5	0.3	0.8	1.8	1.7	0.5	1.7	0.6	0.3	0.2	0.4	0.4	0.3	0.4	0.4	0.3	0.7	1.6	1.5	1.0	0.75	1.84
20-Jan-07	1.0	0.6	A	0.6	0.6	0.3	1.5	0.6	1.5	1.7	2.2	0.6	0.7	0.4	0.8	0.8	0.9	1.2	0.6	0.4	0.5	0.6	0.6	0.4	0.83	2.17
21-Jan-07	0.4	A	2.1	1.0	0.8	0.6	0.5	0.4	1.0	0.8	0.6	0.5	0.6	0.9	1.0	0.6	0.3	0.2	0.5	0.5	0.4	1.5	1.2	1.1	0.77	2.14
22-Jan-07	A	0.4	0.2	0.3	0.2	0.3	0.6	1.0	1.4	2.3	1.1	0.3	0.5	0.5	0.6	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	A	0.53	2.31
23-Jan-07	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.9	1.7	2.0	2.3	1.2	1.1	0.7	0.7	1.2	4.0	3.2	4.4	2.1	1.5	0.7	A	0.8	1.30	4.43
24-Jan-07	0.9	0.8	0.6	0.4	0.4	0.7	1.2	0.9	1.6	2.9	1.6	1.4	1.3	1.6	1.2	0.9	1.9	2.3	3.4	1.9	1.1	A	0.6	0.6	1.31	3.45
25-Jan-07	0.7	0.6	0.6	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.3	A	0.3	0.3	0.3	0.31	0.66
26-Jan-07	0.3	0.2	0.2	0.4	0.2	0.3	0.4	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.6	1.1	2.5	A	0.8	0.8	1.0	0.9	0.60	2.47
27-Jan-07	0.5	0.4	0.6	0.6	0.5	1.7	0.5	0.7	0.8	0.5	0.6	0.5	0.8	0.6	0.5	1.1	0.8	1.9	A	0.6	0.4	0.9	0.2	0.2	0.69	1.94
28-Jan-07	0.2	0.4	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.5	0.3	0.4	0.6	0.4	0.6	0.4	0.9	A	1.1	0.7	0.8	0.8	0.4	1.4	0.55	1.42
29-Jan-07	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.9	0.6	0.7	0.9	0.3	0.3	0.3	0.4	0.5	A	1.0	2.7	2.1	1.0	1.0	0.4	0.5	0.68	2.74
30-Jan-07	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.3	0.3	0.3	0.2	0.3	0.4	A	0.4	0.6	0.8	1.2	1.0	1.7	1.7	2.0	0.60	2.02
31-Jan-07	2.8	0.3	0.5	0.5	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.2	A	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.42	2.85
Hourly Avg	0.56	0.43	0.42	0.39	0.35	0.53	0.61	1.06	1.23	0.87	0.81	0.59	0.55	0.53	0.54	0.55	0.81	0.89	1.06	0.71	0.69	0.75	0.64	0.77		
Hourly Max	2.85	1.36	2.14	0.99	0.96	1.79	1.92	5.41	10.24	2.91	2.30	1.41	1.29	1.57	1.17	1.21	4.02	3.15	4.43	2.12	2.41	1.73	1.73	5.84		

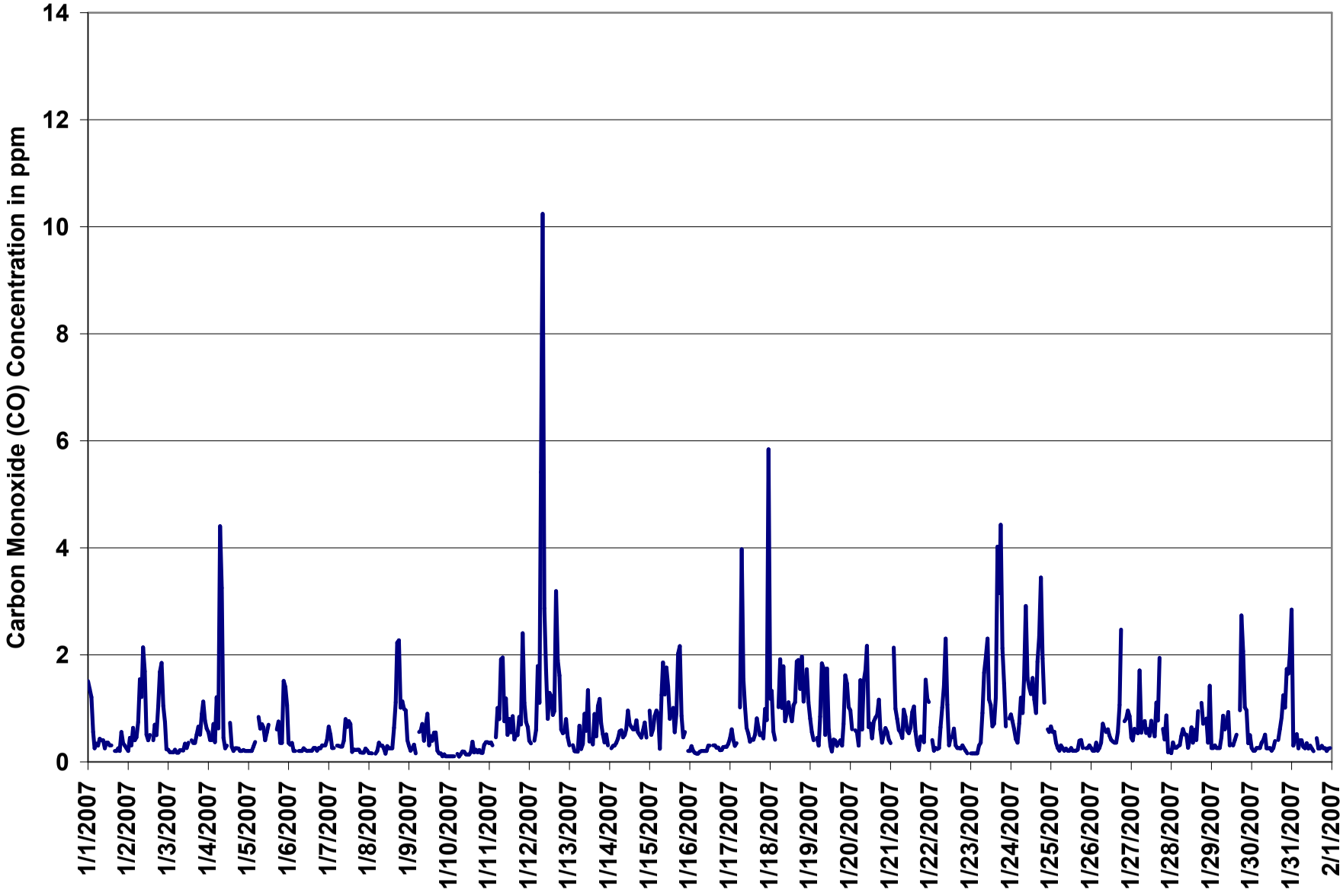
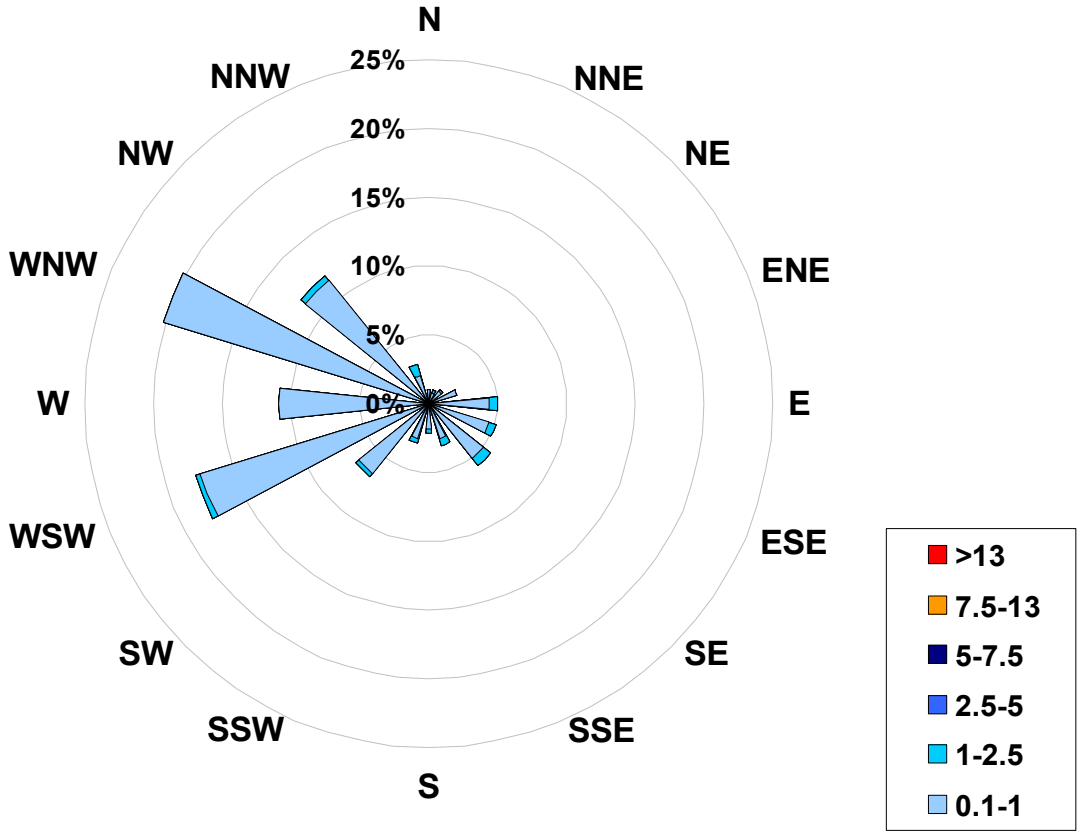


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	672
1	to	2.5	35
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			707

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Station: Henry Pirker
Station Owner: PASZA

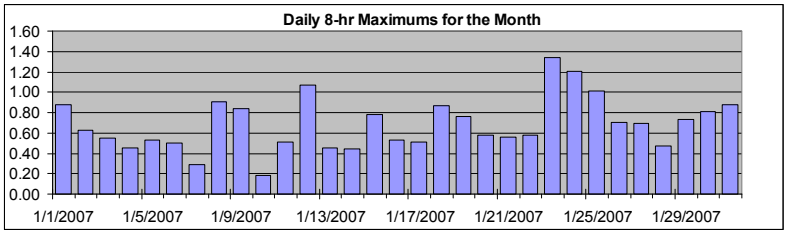
Monitoring Dates: January 1, 2007 to February 1, 2007

Objective Limit: **Alberta Environment:** 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	1.3	ppm	23-Jan	22:00 23:00

Percentile	99	95	75	50	25	5	1
	1.2	0.9	0.5	0.4	0.2	0.2	0.1



Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	0.8	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.87
2-Jan-07	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.63
3-Jan-07	0.5	0.5	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	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.54
4-Jan-07	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.45
5-Jan-07	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	0.4	N	N	N	N	N	N	N	N	N	0.5	0.53
6-Jan-07	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.50
7-Jan-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.29
8-Jan-07	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.90
9-Jan-07	0.8	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.84
10-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.18
11-Jan-07	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.51
12-Jan-07	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.7	1.0	1.0	1.0	1.1	1.1	1.1	1.0	0.9	0.7	0.7	0.7	0.6	0.6	0.6	0.5	1.07
13-Jan-07	0.5	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	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.46
14-Jan-07	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.45
15-Jan-07	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.78
16-Jan-07	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.53
17-Jan-07	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	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	0.51
18-Jan-07	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.8	0.87
19-Jan-07	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.76
20-Jan-07	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.58
21-Jan-07	0.4	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.56
22-Jan-07	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.58
23-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.34
24-Jan-07	1.2	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.20
25-Jan-07	1.0	0.8	0.6	0.5	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	1.02
26-Jan-07	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	0.5	0.6	0.6	0.6	0.7	0.7	0.70
27-Jan-07	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.69
28-Jan-07	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.48
29-Jan-07	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.73
30-Jan-07	0.6	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.81
31-Jan-07	0.9	0.9	0.8	0.8	0.7	0.6	0.5	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	0.88
Hourly Max	1.16	0.91	0.87	0.83	0.77	0.69	0.65	0.61	0.71	0.99	1.00	1.03	1.05	1.06	1.07	1.00	0.97	1.09	1.18	1.20	1.22	1.23	1.34	1.32	

PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

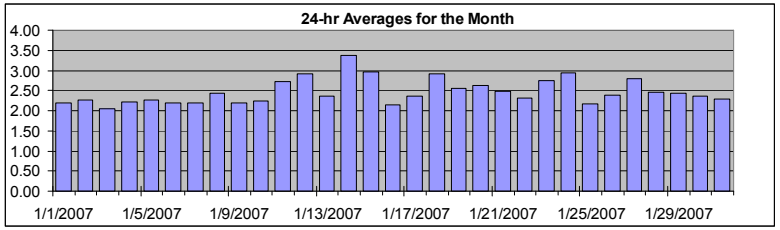
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

Objective Limit: **Alberta Environment:** 1-hr na ppm | 24-hr na ppm

Summary

Maximum 1-hr Average:	4.2	ppm	15-Jan	4:00 5:00
Maximum 24-hr Value:	3.4	ppm	14-Jan	



AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	3.2	2.7	2.3	2.2	2.1	1.9	2.5 ppm	2.3 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Day	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-Jan-07	3.1	3.0	2.5	2.4	2.3	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.2	2.0	A	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.20	3.06
2-Jan-07	2.0	2.1	2.3	2.5	2.3	2.3	2.3	2.6	2.5	2.4	2.7	2.1	2.0	2.0	A	2.0	2.0	2.0	2.3	2.3	2.5	2.7	2.1	1.9	2.25	2.68
3-Jan-07	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	A	2.1	2.0	2.0	2.1	2.4	2.2	2.4	2.3	2.4	2.5	2.05	2.46
4-Jan-07	2.4	2.4	2.5	2.3	2.3	2.3	2.3	2.5	2.5	2.2	2.0	C	P	P	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.23	2.51
5-Jan-07	2.1	2.2	2.2	2.3	2.4	2.2	2.3	2.2	2.2	2.2	2.2	C	C	A	N	N	2.1	2.2	2.4	2.2	2.2	2.5	2.7	2.3	2.27	2.74
6-Jan-07	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.18	2.33
7-Jan-07	2.5	2.4	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.20	2.47
8-Jan-07	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	A	A	2.2	2.2	A	A	2.9	3.0	2.7	2.7	2.7	2.6	2.4	2.43	3.00
9-Jan-07	2.4	2.4	2.3	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.20	2.36
10-Jan-07	2.1	2.2	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.24	2.41
11-Jan-07	2.4	2.4	2.4	A	2.5	2.6	2.6	2.7	2.6	2.7	3.0	3.1	3.1	2.6	2.6	2.8	2.6	2.7	2.7	2.9	3.0	3.0	2.9	2.9	2.73	3.07
12-Jan-07	3.0	3.2	A	3.4	3.6	3.2	3.2	3.3	3.3	3.5	2.9	2.6	2.6	2.5	2.5	2.4	2.6	2.8	2.7	2.8	2.9	2.8	2.8	2.6	2.93	3.56
13-Jan-07	2.2	A	2.2	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.6	2.4	2.4	2.6	2.6	2.7	2.36	2.68
14-Jan-07	A	2.9	3.0	3.1	3.2	3.3	3.2	3.2	3.4	3.5	3.5	3.4	3.2	3.3	3.2	3.2	3.3	3.6	3.6	3.7	3.8	4.0	3.9	A	3.38	4.01
15-Jan-07	3.9	3.7	3.8	4.1	4.2	2.9	2.1	2.3	2.8	2.8	2.9	3.4	2.5	3.1	2.7	2.7	3.2	3.2	3.1	2.4	2.2	2.3	A	2.1	2.97	4.18
16-Jan-07	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.14	2.27
17-Jan-07	2.2	2.4	2.3	2.3	2.3	A	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.3	2.5	2.4	2.7	2.37	2.69
18-Jan-07	2.7	2.9	2.6	2.5	A	2.6	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.1	3.1	3.1	3.0	3.2	3.1	3.1	3.0	3.0	2.91	3.20
19-Jan-07	3.0	3.0	2.9	A	3.0	3.0	3.0	3.0	2.9	2.5	2.8	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.5	2.5	2.4	2.54	3.04
20-Jan-07	2.6	2.6	A	2.7	2.6	2.7	3.0	3.0	3.1	3.4	3.2	3.1	2.6	2.4	2.4	2.4	2.7	2.7	2.4	2.2	2.2	2.2	2.2	2.3	2.63	3.39
21-Jan-07	2.2	A	2.8	2.8	2.7	2.6	2.5	2.5	2.7	2.5	2.4	2.5	2.5	2.7	2.5	2.3	2.1	2.1	2.2	2.1	2.2	2.4	2.7	2.8	2.47	2.84
22-Jan-07	A	2.3	2.2	2.3	2.3	2.6	2.7	2.5	2.8	3.0	2.9	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.31	3.05
23-Jan-07	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.6	3.1	3.2	2.7	3.0	2.5	2.7	2.8	3.3	3.8	3.6	3.1	3.5	2.8	A	3.1	2.74	3.81
24-Jan-07	3.1	3.0	3.0	2.6	2.4	2.5	2.6	2.8	2.9	2.9	2.8	3.1	3.1	3.1	2.9	3.2	3.5	3.8	3.5	3.3	2.7	A	2.4	2.4	2.94	3.84
25-Jan-07	2.6	2.4	2.5	2.5	2.2	2.0	2.0	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	A	2.2	2.2	2.2	2.18	2.59
26-Jan-07	2.3	2.3	2.3	2.4	2.4	2.3	2.4	2.3	2.4	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.9	A	2.5	2.4	2.6	2.6	2.39	2.90
27-Jan-07	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.9	2.9	2.9	3.1	3.2	3.2	2.9	3.1	3.1	3.1	3.5	A	2.5	2.3	2.3	2.2	2.2	2.80	3.49
28-Jan-07	2.2	2.2	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.7	A	2.8	2.8	2.7	2.6	2.3	2.2	2.47	2.81
29-Jan-07	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.6	2.3	2.3	2.3	2.4	A	2.4	2.8	3.0	2.5	2.5	2.7	2.7	2.43	2.95
30-Jan-07	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.2	2.3	2.3	2.5	2.6	2.9	2.9	3.1	2.36	3.07
31-Jan-07	2.6	2.4	2.6	2.6	2.8	2.9	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.28	2.87
Hourly Avg	2.46	2.49	2.44	2.48	2.48	2.45	2.43	2.45	2.51	2.53	2.53	2.50	2.43	2.42	2.39	2.42	2.45	2.53	2.53	2.47	2.47	2.49	2.48	2.43		
Hourly Max	3.92	3.73	3.80	4.06	4.18	3.25	3.18	3.27	3.39	3.50	3.49	3.39	3.20	3.32	3.24	3.18	3.54	3.84	3.63	3.69	3.77	4.01	3.93	3.10		

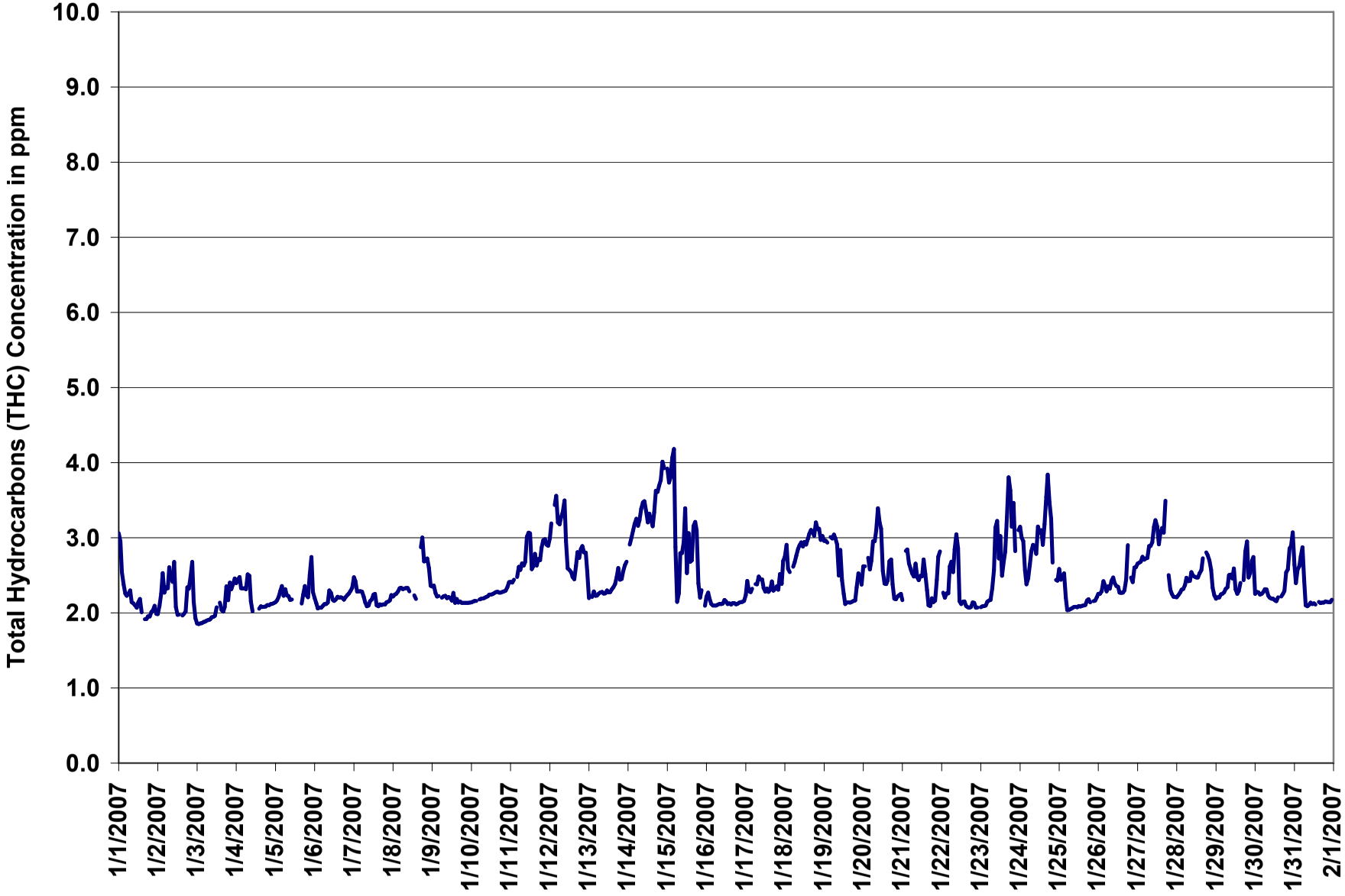


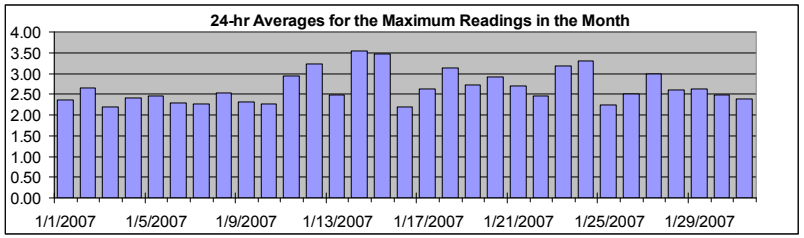
Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	6.6	ppm	15-Jan	11:00 12:00
Maximum 24-hr Value:	3.5	ppm	14-Jan	

AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%

Percentile	99	95	75	50	25	5	1	Average	Median
	4.4	3.7	3.0	2.5	2.2	2.1	1.9	2.7 ppm	2.5 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	3.3	3.2	3.1	2.6	2.4	2.4	2.4	2.7	2.2	2.2	2.2	2.1	2.3	2.4	2.3	A	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.1	2.36	3.33
2-Jan-07	2.1	2.3	2.5	2.7	2.6	2.8	2.9	2.8	2.7	2.9	4.8	2.3	2.0	2.1	A	2.1	2.2	2.1	3.0	3.5	2.8	3.2	2.8	2.1	2.66	4.76
3-Jan-07	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.1	A	2.3	2.3	2.1	2.6	2.8	2.3	2.6	2.6	2.7	2.6	2.18	2.80
4-Jan-07	2.6	2.6	2.7	2.4	2.5	2.6	2.5	3.2	3.5	2.4	2.1	C	P	P	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.40	3.54
5-Jan-07	2.2	2.2	2.3	2.4	2.6	2.5	2.5	2.3	2.3	2.2	2.2	C	C	A	N	N	2.2	2.4	2.5	2.4	2.2	3.1	3.2	2.7	2.45	3.21
6-Jan-07	2.3	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.2	3.3	2.9	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.29	3.29
7-Jan-07	2.7	2.5	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.2	2.2	2.2	2.4	2.4	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.3	2.3	2.27	2.69
8-Jan-07	2.2	2.3	2.3	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	A	A	2.3	2.2	A	A	3.1	3.5	2.8	2.9	2.9	2.9	2.5	2.54	3.52
9-Jan-07	2.5	2.5	2.4	2.3	2.3	A	2.3	2.3	2.3	2.2	2.6	2.5	2.2	2.9	2.2	2.3	2.2	2.3	2.2	2.1	2.2	2.2	2.1	2.2	2.31	2.88
10-Jan-07	2.2	2.2	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.27	2.46
11-Jan-07	2.8	2.5	2.6	A	2.6	2.9	2.9	3.0	3.0	2.8	3.3	3.1	3.1	2.9	2.8	3.6	2.7	2.8	2.8	2.9	3.2	3.1	3.0	3.0	2.94	3.60
12-Jan-07	3.2	3.4	A	3.6	3.9	3.6	3.3	3.8	4.8	3.8	3.4	2.8	2.7	2.7	2.6	2.6	3.1	3.1	3.0	2.9	3.1	3.0	2.9	2.7	3.22	4.84
13-Jan-07	2.3	A	2.3	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.8	2.3	2.3	2.3	2.6	2.5	2.6	2.8	2.6	2.5	2.6	2.7	2.7	2.48	2.84
14-Jan-07	A	3.0	3.2	3.2	3.3	3.3	3.3	3.3	3.6	3.8	3.5	3.6	3.3	3.4	3.4	3.2	3.5	3.9	3.8	3.9	4.0	4.2	4.0	A	3.53	4.20
15-Jan-07	4.1	3.8	4.0	4.2	4.4	4.4	2.3	2.5	3.3	3.2	3.6	6.6	2.7	3.5	3.3	3.1	3.6	4.1	3.5	3.0	2.3	2.4	A	2.2	3.47	6.56
16-Jan-07	2.4	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.19	2.41
17-Jan-07	2.4	2.8	2.4	2.3	2.4	A	2.5	2.8	2.7	2.5	2.7	2.5	2.3	2.5	2.3	2.3	2.5	2.5	2.4	2.4	2.5	3.2	2.8	4.6	2.63	4.62
18-Jan-07	3.0	3.2	2.7	2.8	A	2.8	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.0	3.1	3.2	3.3	3.3	3.3	3.5	3.3	3.3	3.3	3.3	3.13	3.55
19-Jan-07	3.0	3.0	3.0	A	3.1	3.1	3.1	3.4	3.3	2.7	3.3	2.7	2.3	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.6	2.8	2.8	2.7	2.72	3.42
20-Jan-07	2.8	2.9	A	2.9	3.0	2.9	3.3	3.1	3.2	3.7	3.7	3.5	3.2	2.5	3.2	3.1	3.1	2.9	2.5	2.3	2.3	2.3	2.3	2.3	2.91	3.74
21-Jan-07	2.2	A	3.4	3.1	2.8	2.9	2.6	2.5	2.9	2.7	2.5	2.7	2.7	2.8	2.7	2.5	2.2	2.1	2.6	2.3	2.4	3.1	3.5	3.2	2.71	3.47
22-Jan-07	A	2.4	2.4	2.4	2.3	2.9	3.1	2.8	3.3	3.5	3.1	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	A	2.47	3.51
23-Jan-07	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.5	2.9	3.6	3.9	3.0	4.4	2.7	2.9	3.1	3.9	4.4	4.4	4.6	5.0	3.1	A	3.6	3.18	4.95
24-Jan-07	3.7	3.4	3.3	2.9	2.5	2.6	2.9	2.9	3.1	3.2	2.9	3.6	3.5	3.5	3.1	3.7	4.1	4.1	4.7	3.7	3.1	A	2.6	2.6	3.29	4.72
25-Jan-07	2.7	2.6	2.6	2.7	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	A	2.2	2.2	2.4	2.25	2.74
26-Jan-07	2.3	2.3	2.4	2.5	2.4	2.3	2.4	2.4	2.5	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.5	2.7	3.3	A	2.6	2.7	2.8	2.7	2.50	3.28
27-Jan-07	2.7	2.7	2.8	2.9	2.8	2.9	2.8	3.3	3.1	3.1	3.3	3.4	3.3	3.2	3.2	3.7	3.2	3.8	A	3.1	2.4	2.3	2.2	2.3	2.98	3.81
28-Jan-07	2.3	2.3	2.3	2.4	2.4	2.5	2.7	2.5	2.6	2.6	2.8	2.5	2.5	2.5	2.6	2.7	2.9	A	3.1	2.9	2.9	2.8	2.4	2.5	2.59	3.09
29-Jan-07	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.3	2.3	2.5	A	2.7	4.4	3.4	2.6	2.7	2.9	2.9	2.62	4.39
30-Jan-07	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.3	A	2.3	2.3	2.4	3.0	3.0	3.2	3.3	3.5	2.49	3.52
31-Jan-07	3.5	2.4	2.7	2.8	2.9	2.9	2.9	2.1	2.1	2.1	2.2	2.1	2.2	2.1	A	2.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.39	3.47
Hourly Avg	2.63	2.61	2.58	2.59	2.61	2.64	2.59	2.63	2.73	2.73	2.79	2.77	2.61	2.55	2.54	2.62	2.61	2.72	2.83	2.71	2.66	2.69	2.67	2.65		
Hourly Max	4.11	3.77	4.00	4.21	4.38	4.36	3.33	3.78	4.84	3.81	4.76	6.56	4.43	3.51	3.36	3.72	4.05	4.39	4.72	4.64	4.95	4.20	4.02	4.62		

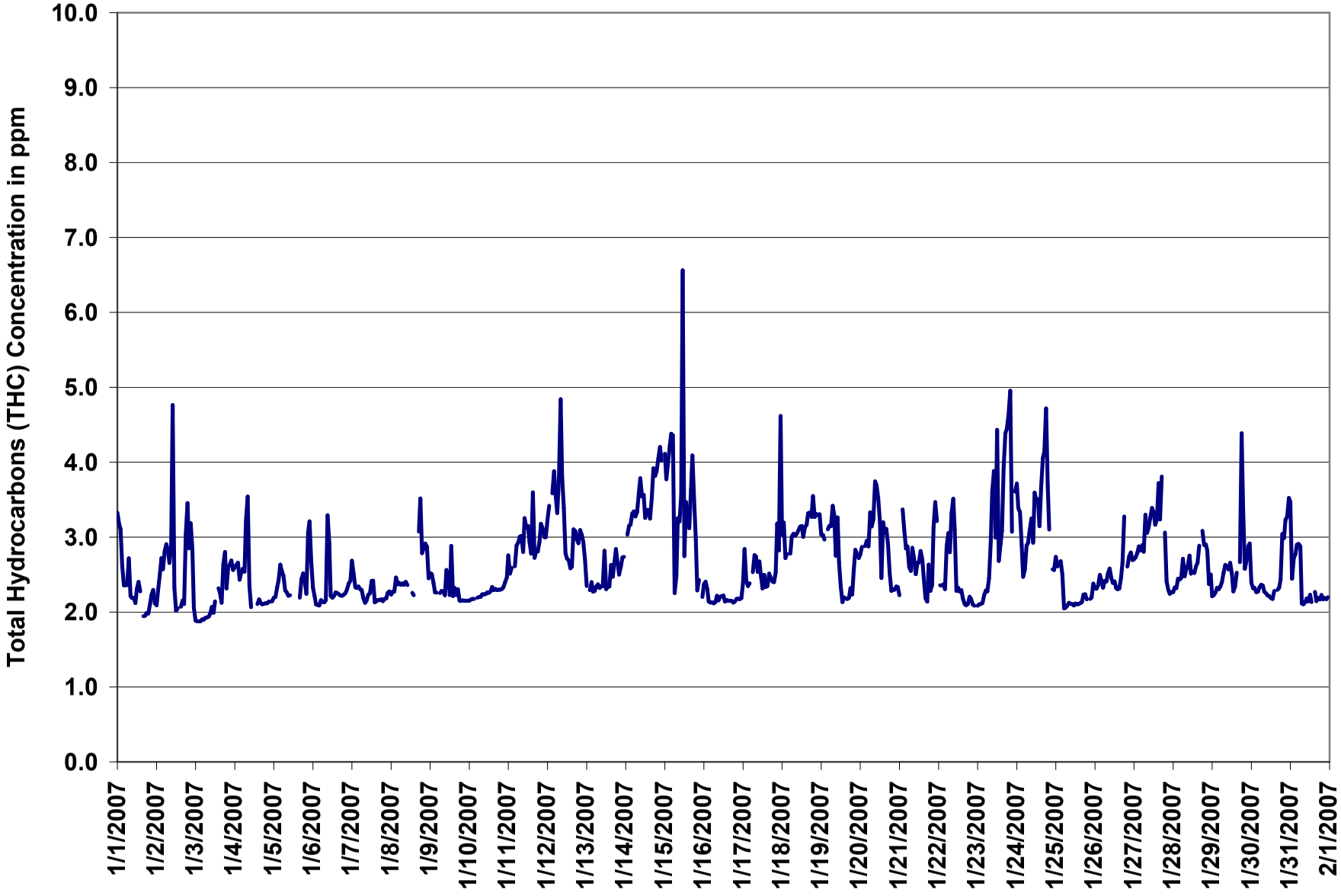
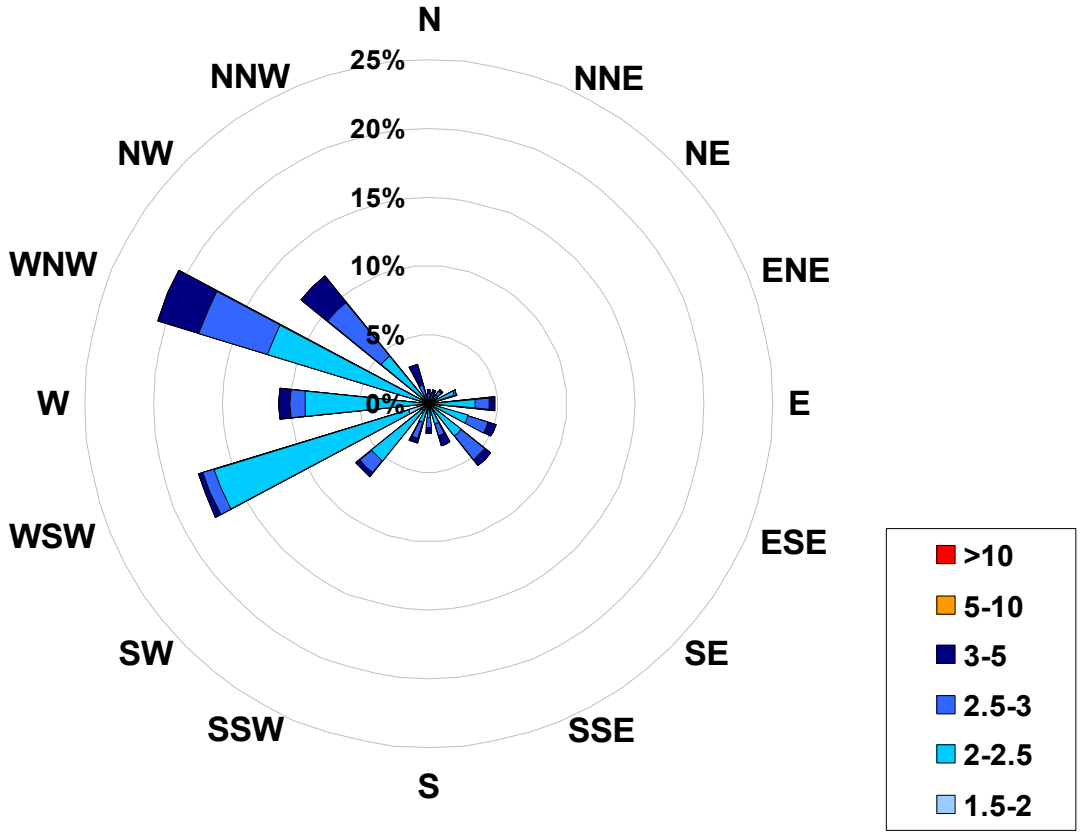


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	23
2	to	2.5	435
2.5	to	3	161
3	to	5	86
5	to	10	0
	>	10	0
Total Non-Zero Values			705

PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

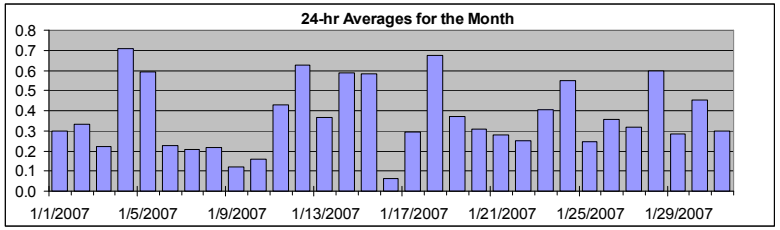
Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	1.4	ppb	12-Jan	9:00 10:00
Maximum 24-hr Value:	0.7	ppb	4-Jan	



AIC Time:	31 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.9	0.5	0.3	0.2	0.0	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**

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-Jan-07	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.8
2-Jan-07	0	0	0	0	0	0	1	1	1	1	1	0	0	0	A	0	0	0	0	0	1	1	1	0	0.3	0.9
3-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	1	0	0	0.2	0.7
4-Jan-07	0	1	0	0	0	0	0	0	1	0	0	C	P	1	1	1	1	1	1	1	1	1	1	1	0.7	1.4
5-Jan-07	1	1	1	1	1	1	1	1	1	1	1	C	C	A	0	0	0	0	0	0	0	0	0	0	0.6	1.3
6-Jan-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
7-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.2	1.0
8-Jan-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0.2	0.9
9-Jan-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
10-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
11-Jan-07	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.4	0.8
12-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0.6	1.4
13-Jan-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.8
14-Jan-07	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9
15-Jan-07	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	A	0	0.6	1.3
16-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
17-Jan-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
18-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
19-Jan-07	0	0	0	A	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.7
20-Jan-07	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
21-Jan-07	0	A	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	0.7
22-Jan-07	A	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6
23-Jan-07	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	1	0	A	0	0.4	1.0
24-Jan-07	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0.6	0.9
25-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.4
26-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0.4	0.9
27-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0.3	0.8
28-Jan-07	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0	0.6	1.1
29-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	0	0	0	1	0.3	0.9
30-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	0.5	1.1
31-Jan-07	1	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.8
Hourly Avg	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.4	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.3		
Hourly Max	1.0	0.9	1.0	1.3	1.3	1.1	0.9	1.3	1.3	1.4	1.2	0.8	0.8	1.4	1.0	0.9	1.1	1.0	1.1	1.1	1.0	1.1	1.0	1.1		

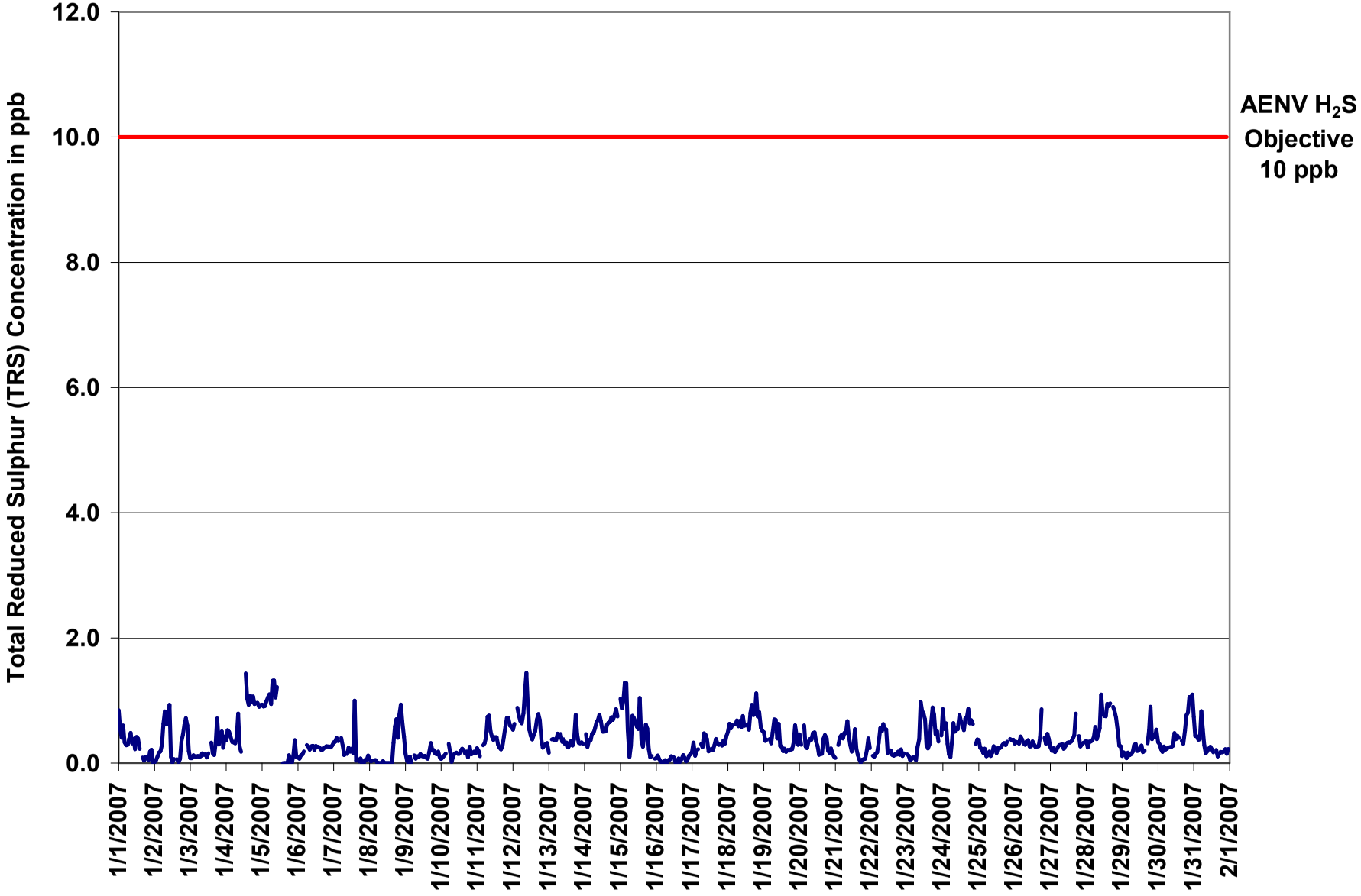


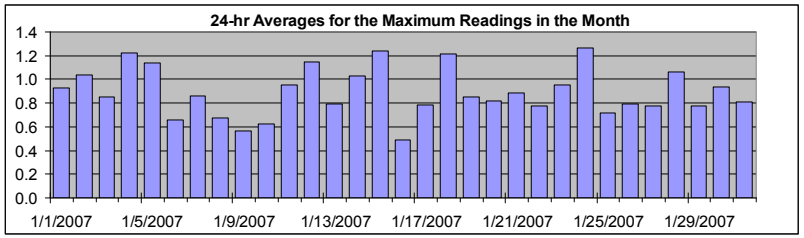
Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	6.0	ppb	7-Jan	14:00 15:00
Maximum 24-hr Value:	1.3	ppb	24-Jan	

AIC Time:	31 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.6	1.1	0.8	0.6	0.4	0.4	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-Jan-07	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0	1	1	0	0.9	2.2
2-Jan-07	0	1	1	1	1	1	2	1	1	1	2	1	0	1	A	0	1	1	1	1	1	2	2	1	1.0	2.4
3-Jan-07	1	0	1	1	1	1	0	1	1	1	1	1	1	A	1	0	0	1	3	1	1	1	1	1	0.9	3.3
4-Jan-07	1	1	1	1	1	1	1	1	2	1	1	C	P	2	1	1	1	1	1	1	2	1	2	1	1.2	2.5
5-Jan-07	1	1	1	1	2	2	1	2	2	1	2	C	C	A	0	0	0	1	1	0	0	1	1	1	1.1	2.4
6-Jan-07	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
7-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	6	1	0	0	0	0	0	0	0	1	0.9	6.0
8-Jan-07	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0.7	1.4
9-Jan-07	1	0	0	1	0	A	1	0	1	0	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0.6	0.9
10-Jan-07	1	1	1	1	A	1	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0.6	1.4
11-Jan-07	1	1	0	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.0	1.5
12-Jan-07	1	1	A	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2
13-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
14-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.5
15-Jan-07	2	1	2	2	2	2	0	1	1	1	1	1	2	2	1	1	1	2	1	1	0	1	A	1	1.2	2.0
16-Jan-07	1	0	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0.5	0.7
17-Jan-07	1	1	0	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	2	0.8	1.6
18-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.2	1.7
19-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
20-Jan-07	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.8	1.5
21-Jan-07	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	3	1	0.9	2.9
22-Jan-07	A	1	0	1	1	1	2	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	A	0.8	1.7
23-Jan-07	1	0	0	1	1	0	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	A	1	1.0	1.7
24-Jan-07	3	2	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	A	1	1	1.3	3.3
25-Jan-07	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.0
26-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.3
27-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.3
28-Jan-07	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	A	1	1	1	1	1	1	1.1	1.5
29-Jan-07	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	1	0.8	1.6
30-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	2	0.9	1.9
31-Jan-07	2	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.7
Hourly Avg	1.0	0.8	0.8	0.9	0.8	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.9	0.9	0.7	0.8	0.9	1.0	0.9	0.9	1.0	1.0	0.8		
Hourly Max	3.3	1.8	1.7	1.9	2.4	2.0	1.7	2.0	1.8	2.3	1.9	1.6	1.6	2.5	6.0	1.5	1.5	2.0	3.3	1.7	1.5	1.8	2.9	1.9		

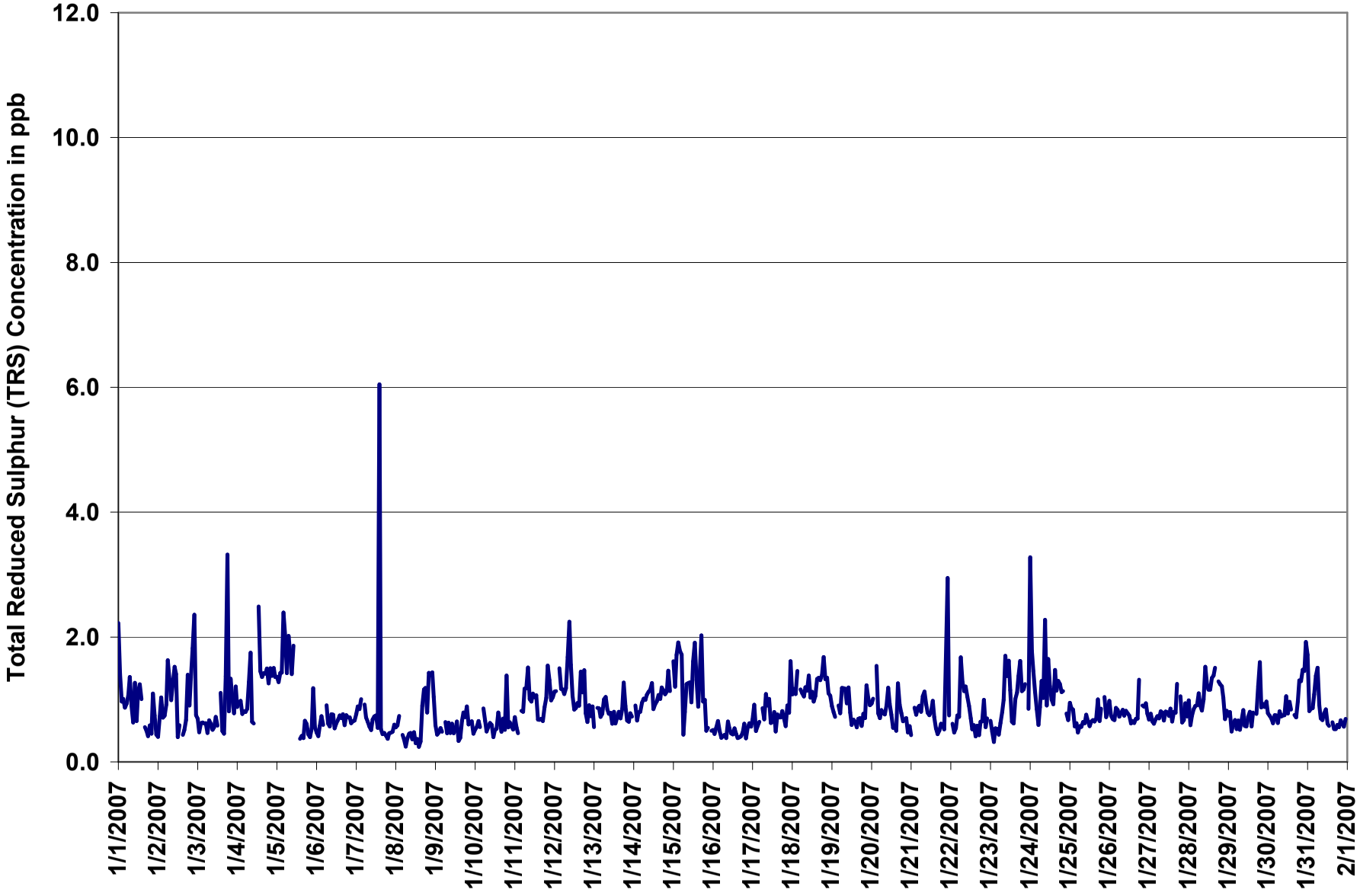
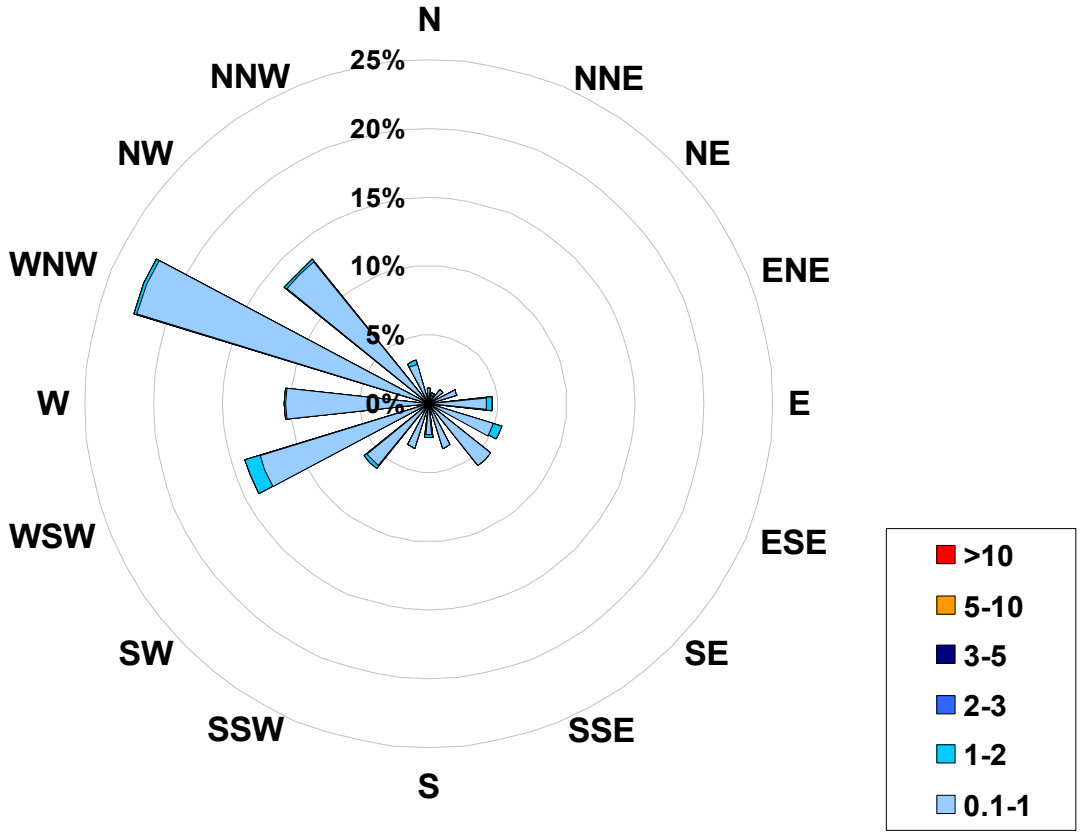


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	688
1	to	2	21
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			709

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

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

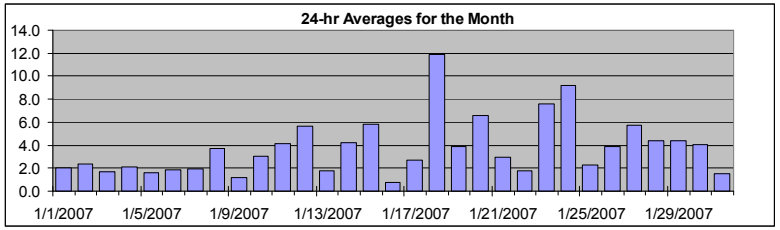
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	29.0	µg/m³	27-Jan	17:00 18:00
Maximum 24-hr Value:	11.9	µg/m³	18-Jan	



AIC Time:			0 hrs		Operational Time:				735 hrs	
Calibration Time:			3 hrs		AMD Operational Uptime:				99.2%	
Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	19.0	12.8	5.2	2.6	0.8	0.0	0.0	3.8	3 µg/m˘	3.1 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	26	14	7	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2.1	26.5
2-Jan-07	0	1	2	2	0	0	3	3	2	2	3	0	D	0	0	1	1	1	4	6	9	13	1	0	2.4	13.0
3-Jan-07	0	0	1	1	1	0	0	0	0	2	1	0	1	3	4	1	1	1	4	2	4	3	5	5	1.7	5.2
4-Jan-07	3	4	4	2	2	2	1	4	5	3	1	1	P	P	2	2	1	2	2	1	1	0	1	0	2.1	5.4
5-Jan-07	0	1	0	0	0	0	0	1	0	1	3	1	2	2	3	0	0	1	1	0	2	5	8	4	1.6	8.0
6-Jan-07	0	2	2	3	2	2	2	2	3	3	3	2	2	2	1	1	3	1	1	2	2	1	0	2	1.9	3.0
7-Jan-07	1	0	0	0	0	0	0	0	D	0	1	2	4	3	2	2	2	2	2	2	3	3	6	8	1.9	8.2
8-Jan-07	5	4	3	1	0	0	0	1	1	2	0	1	1	1	1	3	7	11	11	9	11	9	6	0	3.7	11.5
9-Jan-07	0	D	0	0	0	0	0	0	0	2	0	0	0	0	0	4	4	0	2	3	3	3	3	3	1.2	4.2
10-Jan-07	4	3	3	14	D	3	5	2	4	3	2	2	4	2	3	3	3	3	2	2	1	1	1	1	3.0	14.2
11-Jan-07	3	1	2	1	2	6	2	4	6	6	5	4	5	4	3	2	2	2	4	9	8	8	5	5	4.2	8.6
12-Jan-07	3	3	4	3	5	7	5	8	9	15	10	5	2	4	4	5	6	8	8	4	3	5	6	7	5.7	14.7
13-Jan-07	2	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	3	6	4	5	3	3	2	1.8	6.5
14-Jan-07	3	1	2	1	3	2	3	3	3	3	5	10	6	7	7	7	3	3	4	5	5	5	3	7	4.2	10.1
15-Jan-07	8	4	7	11	12	7	0	0	6	8	8	9	5	9	5	6	8	13	12	2	0	0	0	0	5.9	12.7
16-Jan-07	0	0	0	0	0	0	0	0	0	1	0	1	0	C	C	C	0	1	2	3	4	2	0	0	0.7	3.7
17-Jan-07	1	4	3	2	1	0	2	1	4	6	4	2	0	0	1	2	4	3	2	3	0	8	3	7	2.7	8.1
18-Jan-07	8	8	5	3	4	4	6	7	10	8	12	11	14	15	17	20	24	18	18	23	15	15	10	10	11.9	23.6
19-Jan-07	7	5	3	5	4	5	7	9	10	5	11	3	0	0	0	0	0	0	0	0	5	6	4	3	3.9	11.1
20-Jan-07	8	8	9	9	5	9	14	12	13	16	15	7	4	2	3	3	6	7	2	1	1	2	2	0	6.6	15.6
21-Jan-07	0	0	4	9	4	3	3	2	5	3	3	3	4	8	4	2	0	0	0	0	0	2	5	6	3.0	8.9
22-Jan-07	1	1	0	0	1	1	3	4	6	9	10	0	0	0	1	1	1	1	1	1	0	0	1	0	1.8	9.6
23-Jan-07	0	0	0	0	0	0	1	3	8	17	16	8	12	6	4	6	14	19	19	13	14	6	6	9	7.6	19.4
24-Jan-07	12	7	6	3	0	0	3	6	6	8	9	14	15	18	13	13	17	24	13	12	7	4	6	5	9.2	23.9
25-Jan-07	7	7	9	3	1	1	2	0	0	1	0	1	1	0	0	1	1	1	2	2	5	4	3	4	2.3	9.4
26-Jan-07	5	5	5	4	2	1	1	2	3	3	3	3	3	1	2	2	3	8	14	11	3	1	5	5	3.8	13.6
27-Jan-07	4	2	1	2	1	2	5	3	4	4	5	5	6	6	7	8	12	29	14	5	5	4	3	1	5.7	29.0
28-Jan-07	2	2	1	2	0	2	2	1	2	5	2	4	6	5	9	9	13	10	10	8	7	3	2	0	4.4	12.7
29-Jan-07	0	0	0	0	2	0	3	4	4	8	2	4	3	4	4	6	5	5	10	16	7	8	5	4	4.4	16.2
30-Jan-07	4	3	3	2	1	2	1	3	2	2	3	3	3	2	3	2	2	3	4	11	5	7	12	13	4.0	12.7
31-Jan-07	7	0	2	2	0	4	5	2	2	2	3	1	2	0	0	1	0	0	0	1	1	0	1	1	1.5	6.7
Hourly Avg	4.0	3.1	2.9	2.8	1.8	2.1	2.6	2.8	4.0	4.8	4.6	3.5	3.7	3.7	3.5	3.8	4.7	5.9	5.7	5.2	4.3	4.2	3.7	3.6		
Hourly Max	26.5	14.1	9.4	14.2	11.9	8.9	14.1	12.5	13.0	17.2	16.1	13.6	15.5	18.2	17.3	20.2	23.6	29.0	19.3	23.0	15.3	15.2	11.8	12.7		

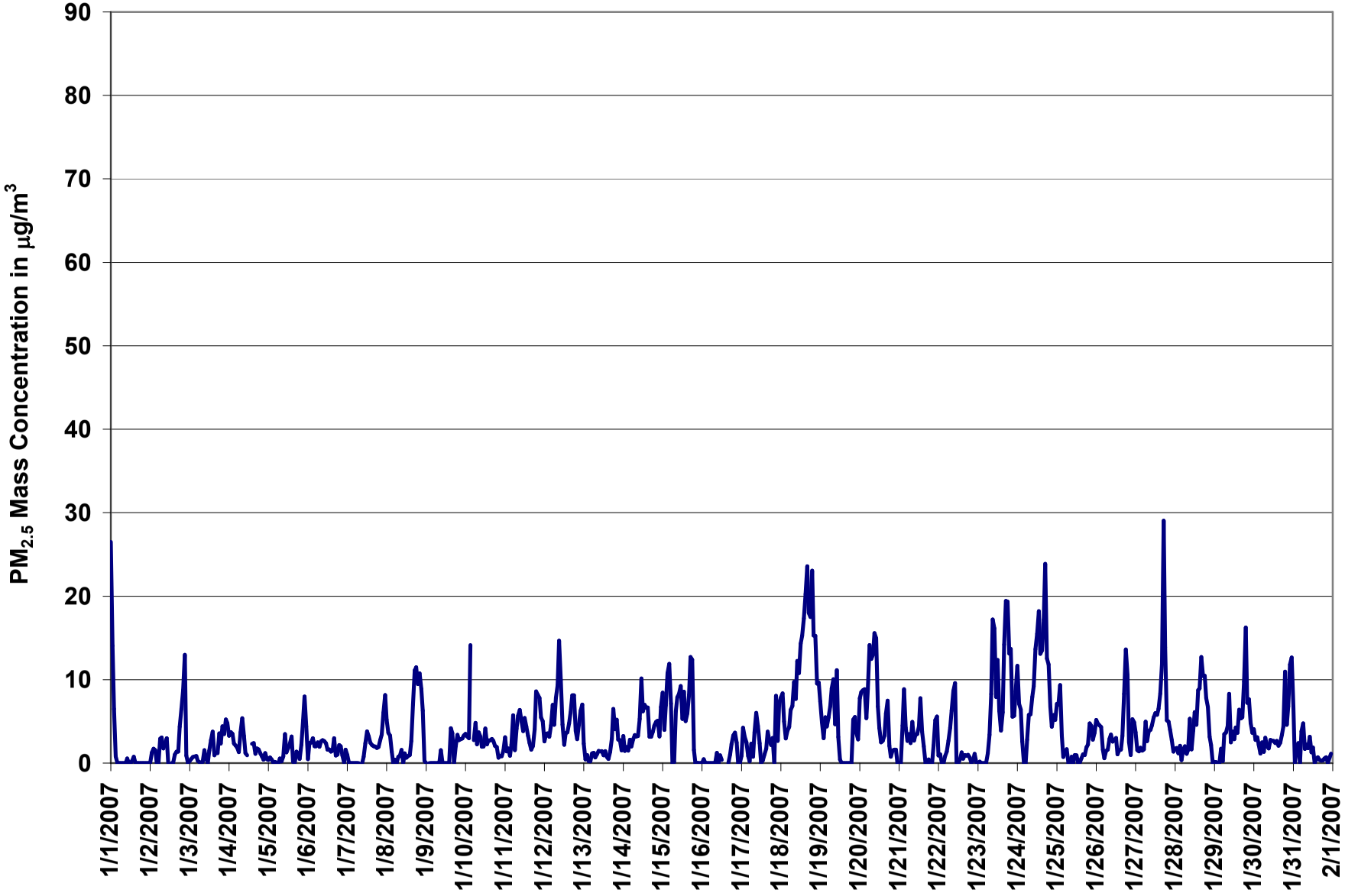


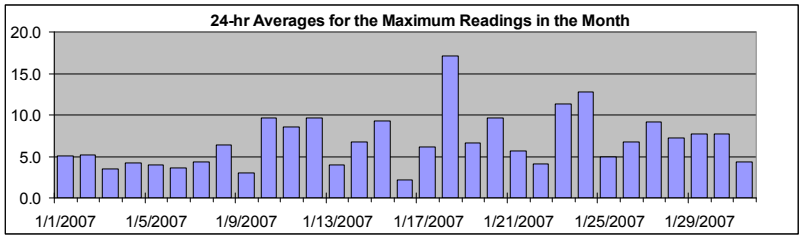
Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	53.3	µg/m³	10-Jan	3:00 4:00
Maximum 24-hr Value:	17.1	µg/m³	18-Jan	

AIC Time:	0 hrs	Operational Time:	735 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.2%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	26.8	18.8	8.9	4.9	2.8	1.2	0.1	6.8	5 µg/m˘	6.1 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	43	20	18	4	2	1	1	0	3	2	3	2	2	2	2	1	2	1	2	0	1	1	4	1	5.1	43.3
2-Jan-07	2	3	4	7	2	2	5	7	3	4	5	2	D	4	3	2	4	4	8	8	11	16	10	1	5.1	15.5
3-Jan-07	2	2	2	2	2	1	2	2	1	3	2	1	3	7	5	4	3	4	6	4	6	7	8	7	3.6	7.6
4-Jan-07	5	6	5	3	5	3	3	7	11	6	3	3	P	P	4	4	4	4	4	3	3	2	3	1	4.2	10.9
5-Jan-07	2	2	2	2	2	1	2	3	2	3	7	4	4	4	8	2	2	3	3	3	4	9	13	9	3.9	13.3
6-Jan-07	3	4	4	5	3	3	4	5	4	5	4	5	3	3	3	3	4	3	3	4	4	3	1	4	3.6	4.9
7-Jan-07	4	3	2	2	0	1	2	1	D	1	4	5	6	5	5	4	3	3	4	4	5	5	18	14	4.4	17.6
8-Jan-07	7	6	5	4	3	3	2	2	4	4	2	3	2	2	3	7	14	14	16	12	14	12	10	2	6.4	15.7
9-Jan-07	2	D	0	0	1	1	1	2	3	3	3	2	2	1	1	9	6	4	4	7	5	5	5	6	3.0	8.5
10-Jan-07	4	4	6	53	D	9	15	5	9	12	17	26	20	5	4	4	4	4	4	4	3	2	3	3	9.6	53.3
11-Jan-07	6	6	8	5	8	15	4	9	11	11	11	9	11	10	5	5	4	4	8	15	11	11	8	9	8.5	15.3
12-Jan-07	6	5	8	5	11	13	7	13	14	25	22	6	4	7	7	7	12	11	13	6	6	7	9	9	9.6	24.8
13-Jan-07	6	3	3	2	1	2	3	2	2	3	3	4	4	4	3	3	4	6	9	6	10	6	6	3	4.0	9.8
14-Jan-07	5	4	3	4	5	3	5	5	5	5	8	17	9	10	9	9	5	7	7	8	8	9	5	10	6.8	16.6
15-Jan-07	12	7	9	14	14	13	2	5	10	12	13	14	9	10	11	11	13	16	14	10	1	2	1	0	9.3	15.6
16-Jan-07	3	2	0	1	1	0	2	0	1	3	2	2	2	C	C	C	0	3	5	6	5	4	1	1	2.1	5.5
17-Jan-07	3	10	7	4	2	2	4	5	7	8	8	6	1	2	3	3	6	7	6	7	2	27	4	13	6.1	26.6
18-Jan-07	11	11	8	5	6	7	9	10	15	11	21	18	23	22	23	26	27	27	27	28	27	19	19	11	17.1	27.8
19-Jan-07	9	8	7	8	6	8	11	11	12	11	13	8	3	0	1	1	0	1	1	2	14	7	7	6	6.6	13.6
20-Jan-07	10	12	10	11	9	14	17	14	16	20	22	9	8	5	6	6	9	11	4	3	5	4	6	1	9.6	21.6
21-Jan-07	0	1	7	12	6	5	6	4	8	7	7	5	9	12	7	4	2	1	5	1	2	5	10	9	5.7	12.2
22-Jan-07	4	4	3	1	2	3	4	9	9	11	13	3	2	3	6	3	3	3	3	2	1	4	3	2	4.1	12.9
23-Jan-07	2	2	1	1	1	2	4	7	13	25	22	12	16	10	9	10	19	22	25	18	18	8	9	12	11.3	25.1
24-Jan-07	15	12	9	7	2	3	6	10	9	11	11	18	19	22	18	15	21	30	21	16	10	8	8	7	12.8	30.0
25-Jan-07	9	14	15	7	3	4	5	3	3	5	3	4	4	1	2	2	2	3	3	4	6	6	5	6	4.9	15.2
26-Jan-07	7	6	6	6	3	2	5	4	5	5	5	8	6	3	3	4	5	13	19	19	4	3	9	10	6.7	18.9
27-Jan-07	7	7	5	4	5	3	8	6	8	6	7	8	8	8	9	11	15	42	20	9	8	8	5	3	9.2	42.2
28-Jan-07	3	4	3	4	2	4	5	3	4	10	4	7	9	8	10	12	18	15	16	12	9	5	4	1	7.2	18.1
29-Jan-07	3	5	2	3	5	6	7	6	6	13	4	6	6	6	6	9	9	8	15	22	13	12	8	6	7.8	21.8
30-Jan-07	7	4	7	4	3	5	3	7	6	3	4	4	5	4	5	4	5	6	7	31	20	9	19	16	7.7	31.4
31-Jan-07	16	2	6	7	2	7	7	5	4	4	5	6	4	1	3	2	2	2	3	3	4	1	3	3	4.3	16.4
Hourly Avg	7.1	5.9	5.7	6.5	4.0	4.7	5.1	5.5	6.9	8.1	8.3	7.3	7.0	6.3	6.2	6.2	7.3	9.0	9.1	8.9	7.7	7.3	7.2	6.0		
Hourly Max	43.3	19.6	18.3	53.3	13.6	14.6	16.5	14.1	15.7	25.1	22.4	25.8	23.0	22.2	23.1	25.6	26.6	42.2	26.9	31.4	27.1	26.6	19.3	16.0		

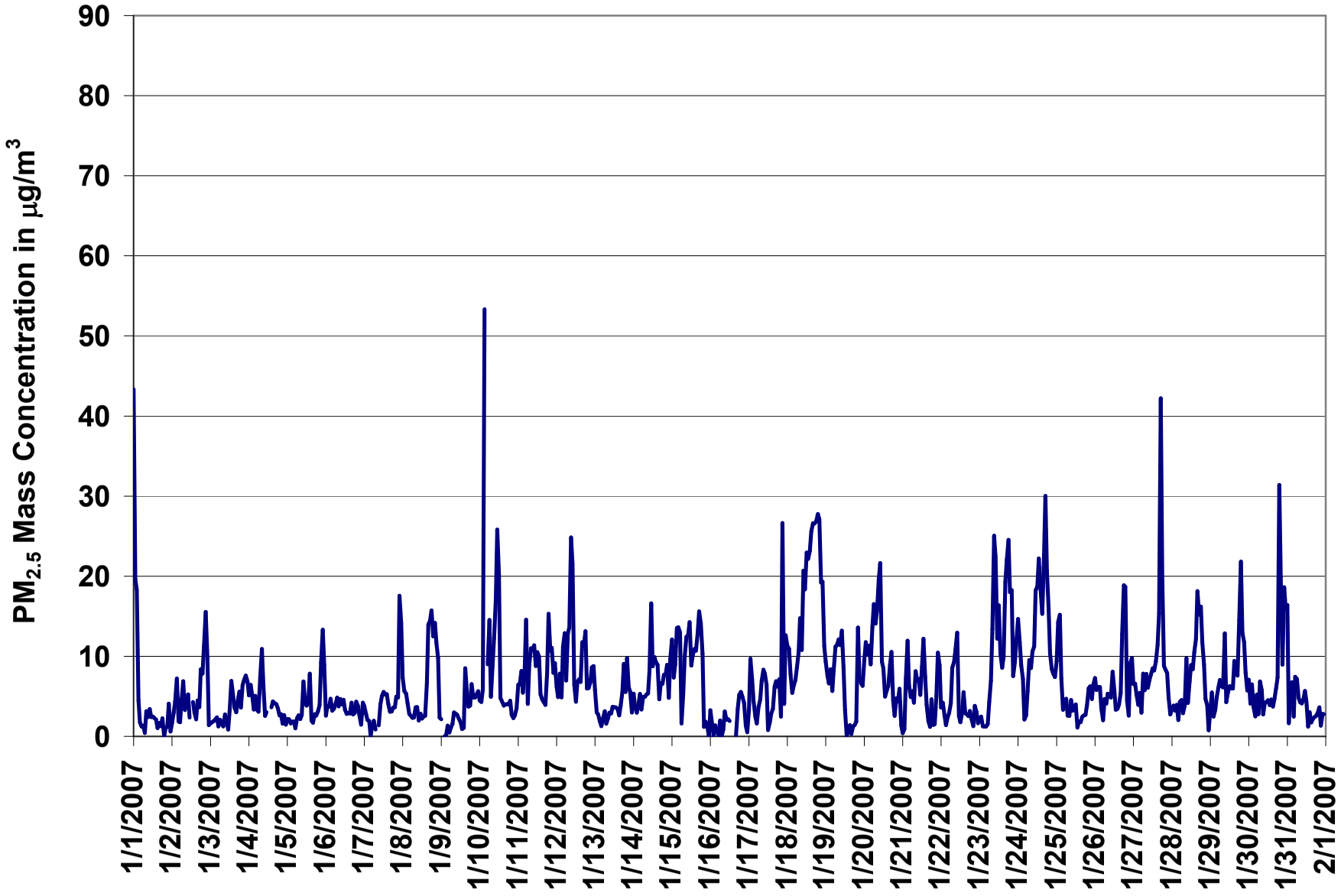
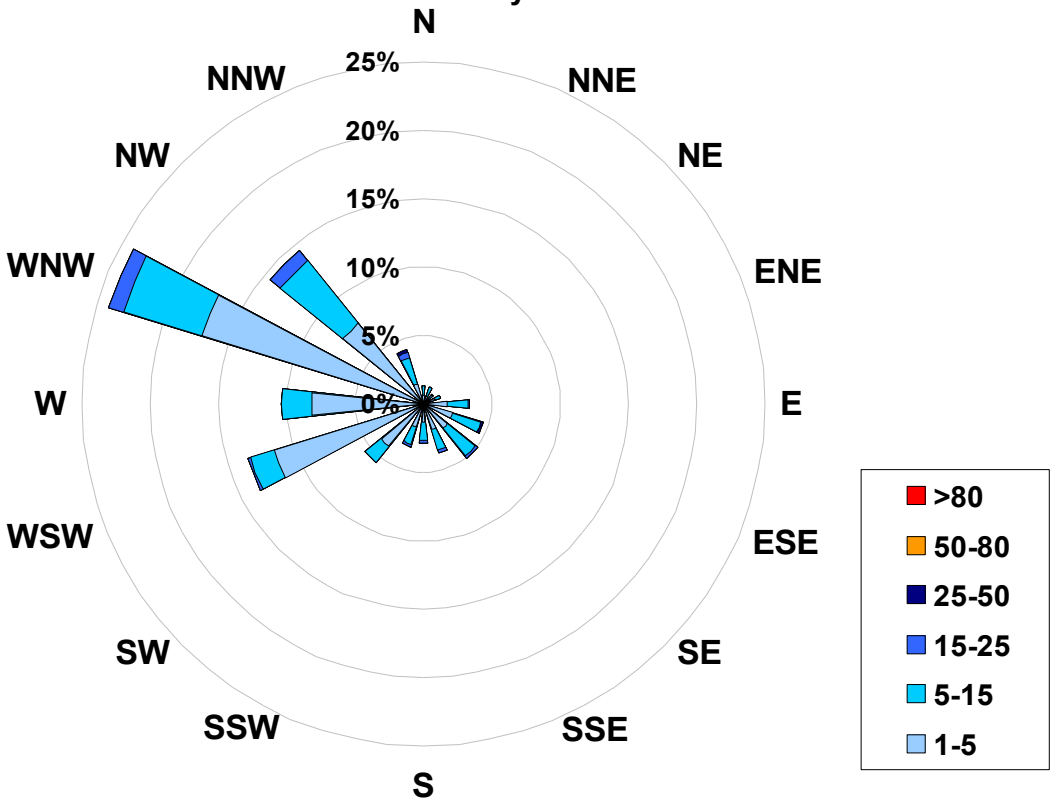


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 January 2007



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	541
5	to	15	173
15	to	25	19
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			735

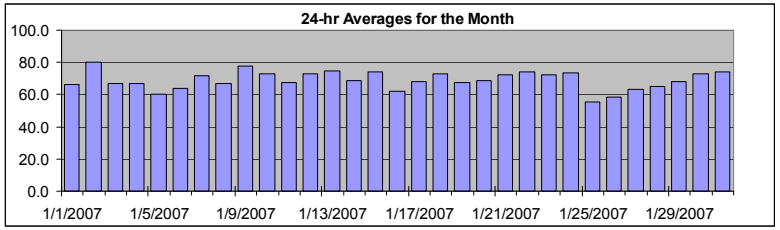
PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	93.0	%	22-Jan	4:00 5:00
Maximum 24-hr Value:	80.2	%	2-Jan	

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
	92.5	85.8	76.0	69.4	62.4	52.6	47.1	69.1 %	69.4 %

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**

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-Jan-07	77	76	72	71	67	67	69	70	64	63	61	58	59	61	63	65	65	66	65	65	65	64	65	67	66.1	77.3
2-Jan-07	64	73	80	82	78	77	78	82	79	78	74	71	70	70	79	85	90	90	92	93	93	93	80	74	80.2	92.9
3-Jan-07	76	70	68	68	67	68	68	69	69	69	67	63	61	58	55	58	61	61	66	68	72	73	75	80	67.0	80.0
4-Jan-07	80	81	84	82	80	79	82	81	77	71	64	61	P	48	51	48	47	51	56	59	59	61	64	65	66.6	83.7
5-Jan-07	64	63	65	67	68	57	60	61	58	57	55	53	52	51	52	55	57	61	63	63	62	64	69	72	60.3	71.8
6-Jan-07	74	74	74	71	65	63	65	65	64	64	61	57	56	53	53	52	56	59	63	67	69	69	68	68	63.7	74.2
7-Jan-07	70	67	66	67	66	72	87	88	89	84	77	72	68	67	66	67	68	71	70	63	59	62	65	91	71.8	90.6
8-Jan-07	85	74	76	83	86	80	70	60	59	60	56	56	55	54	56	58	62	67	71	69	69	70	67	62	66.9	85.7
9-Jan-07	61	61	56	58	64	80	85	86	87	87	87	86	86	85	85	86	87	79	77	77	76	76	76	75	77.7	87.3
10-Jan-07	75	75	75	74	74	74	74	74	73	73	73	73	73	73	73	73	73	73	72	72	71	71	71	70	73.1	75.2
11-Jan-07	70	69	69	67	66	66	66	66	64	62	63	65	65	67	67	67	68	69	69	69	70	70	70	70	67.2	69.9
12-Jan-07	69	69	69	69	70	72	71	72	73	75	76	74	73	73	70	70	72	74	74	74	74	74	76	81	72.7	80.9
13-Jan-07	85	85	86	86	85	84	81	79	78	76	75	72	66	61	61	64	70	75	75	72	71	70	70	70	74.9	85.8
14-Jan-07	70	70	69	69	70	70	69	69	69	69	71	73	70	63	61	59	65	68	69	70	70	71	70	72	68.7	72.9
15-Jan-07	73	73	73	75	76	74	67	71	79	79	78	76	74	73	72	74	78	79	81	73	70	73	69	64	74.0	80.7
16-Jan-07	71	77	71	67	64	64	63	62	61	60	57	54	53	55	54	54	57	58	58	61	63	66	67	72	62.0	76.9
17-Jan-07	76	79	78	76	76	76	76	77	78	77	71	65	62	53	51	51	56	57	58	61	62	67	70	75	68.0	78.6
18-Jan-07	77	77	75	74	76	76	79	79	78	77	72	57	56	62	64	66	67	73	77	79	78	80	79	78	73.1	80.0
19-Jan-07	78	78	78	79	80	81	83	81	82	77	67	62	56	50	51	52	54	54	51	54	62	67	70	75	67.5	82.5
20-Jan-07	76	76	77	76	77	77	78	79	80	81	69	54	50	53	52	57	62	68	68	65	66	70	72	67	68.7	80.6
21-Jan-07	63	70	78	81	79	77	76	77	79	77	75	74	71	73	67	64	62	61	66	65	68	73	78	83	72.4	82.5
22-Jan-07	89	91	92	92	93	93	85	80	84	85	81	65	60	59	57	57	60	61	64	69	67	64	66	66	74.2	93.0
23-Jan-07	64	64	66	67	72	71	69	73	78	79	75	67	63	57	61	61	70	78	81	83	84	84	84	88	72.5	87.8
24-Jan-07	90	91	92	92	92	92	92	93	93	93	91	87	80	72	72	58	60	69	56	48	41	36	38	40	73.7	92.9
25-Jan-07	51	59	67	59	54	59	67	65	55	55	49	49	53	53	51	49	50	53	53	55	51	53	56	61	55.4	67.4
26-Jan-07	63	63	65	65	63	57	61	60	64	63	57	53	46	48	47	45	47	54	64	66	62	59	66	68	58.6	67.9
27-Jan-07	71	72	72	73	73	73	73	73	71	69	60	57	60	55	54	56	60	65	57	50	54	56	57	56	63.2	73.1
28-Jan-07	54	63	65	70	72	72	74	72	73	72	61	50	50	53	55	57	63	68	73	74	74	72	66	63	65.3	74.3
29-Jan-07	63	65	66	68	70	73	75	79	79	76	65	61	57	57	56	54	56	62	67	74	77	79	80	81	68.2	81.0
30-Jan-07	71	68	72	74	77	80	80	82	76	73	68	68	66	64	62	63	64	67	71	74	80	81	83	84	72.9	84.3
31-Jan-07	83	81	82	81	80	82	78	69	66	67	69	69	69	71	70	69	72	73	72	73	75	72	76	76	74.0	82.8
Hourly Avg	72.0	72.7	73.4	73.6	73.5	73.7	74.3	74.1	73.6	72.6	68.6	64.7	62.7	61.1	60.9	61.1	63.9	66.6	67.8	67.9	68.1	69.0	69.8	71.5		
Hourly Max	89.9	91.2	92.1	92.3	93.0	92.8	92.4	92.8	92.9	92.5	91.1	86.5	86.3	85.5	84.6	85.9	89.6	90.5	92.2	92.6	92.5	92.9	84.1	90.6		

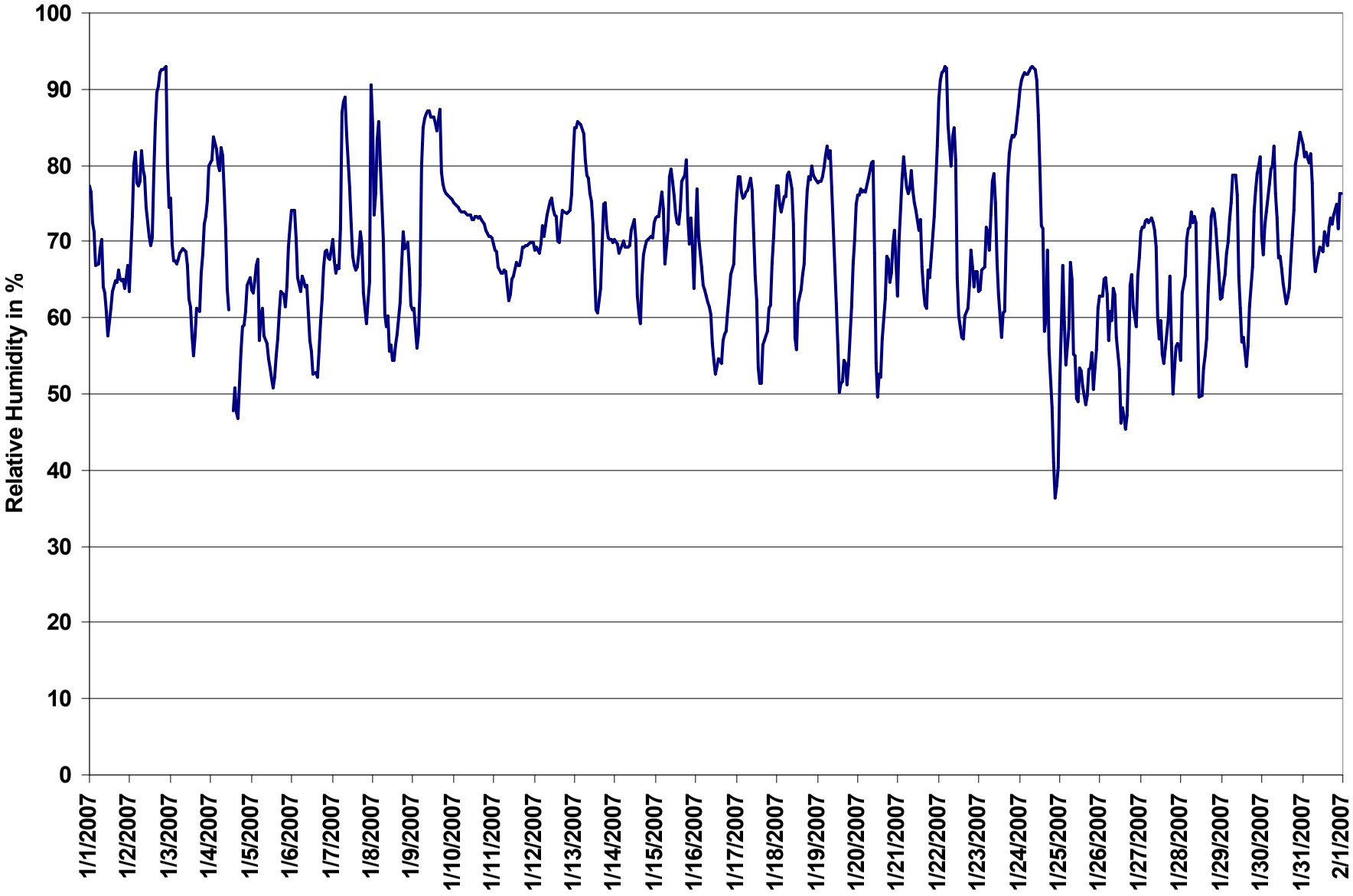


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

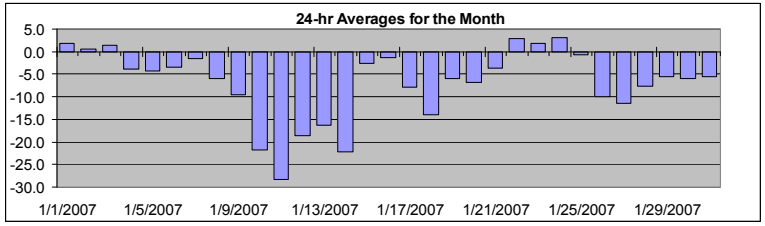
PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	8.6	°C	24-Jan	15:00 16:00
Maximum 24-hr Value:	3.0	°C	24-Jan	

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
	6.0	4.3	-0.4	-5.3	-11.2	-26.0	-30.0	-6.9 °C	-5.3 °C

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	-5	-4	-3	-3	-2	-2	-2	-1	0	1	3	4	4	5	5	5	5	5	5	5	4	4	4	3	1.8	5.5
2-Jan-07	5	2	0	0	0	0	-1	-2	-2	-1	0	1	2	2	2	2	2	2	1	1	0	-1	1	2	0.6	4.6
3-Jan-07	3	4	4	4	3	3	3	2	2	2	2	3	3	4	5	3	2	1	0	-1	-2	-3	-3	-5	1.5	4.6
4-Jan-07	-5	-6	-7	-6	-6	-5	-6	-5	-4	-3	-1	0	P	0	-1	-1	-2	-3	-3	-4	-4	-5	-6	-6	-3.8	0.3
5-Jan-07	-7	-7	-8	-10	-10	-8	-8	-9	-7	-7	-6	-4	-3	-2	1	1	0	-1	-1	-1	-2	-2	-2	-3	-4.3	1.4
6-Jan-07	-2	-2	-2	-2	-2	-3	-4	-5	-5	-5	-4	-3	-2	-1	-1	-2	-3	-4	-4	-5	-6	-6	-6	-6	-3.5	-0.8
7-Jan-07	-7	-6	-6	-6	-6	-6	-5	-4	-3	-3	-3	-2	-1	0	4	3	3	3	3	3	2	1	0	-3	-1.6	3.6
8-Jan-07	-4	-5	-5	-6	-8	-8	-9	-7	-7	-8	-6	-5	-3	-3	-4	-4	-5	-6	-7	-7	-7	-7	-7	-6	-6.0	-3.0
9-Jan-07	-6	-6	-6	-6	-6	-7	-7	-7	-6	-6	-6	-5	-5	-5	-5	-6	-6	-14	-17	-18	-19	-19	-20	-20	-9.5	-4.5
10-Jan-07	-20	-21	-21	-21	-21	-21	-21	-22	-22	-22	-21	-21	-21	-21	-21	-21	-21	-22	-22	-22	-23	-24	-25	-26	-21.8	-20.5
11-Jan-07	-28	-28	-29	-31	-32	-32	-32	-31	-33	-34	-32	-27	-27	-26	-24	-25	-25	-26	-26	-27	-27	-27	-26	-25	-28.2	-23.8
12-Jan-07	-27	-27	-28	-28	-27	-24	-26	-25	-23	-21	-17	-14	-14	-11	-9	-11	-13	-15	-16	-16	-15	-14	-12	-11	-18.5	-9.4
13-Jan-07	-8	-8	-9	-9	-9	-9	-12	-14	-15	-16	-16	-16	-14	-14	-14	-15	-17	-19	-22	-25	-26	-26	-27	-27	-16.2	-8.3
14-Jan-07	-27	-27	-28	-27	-27	-26	-27	-27	-27	-26	-23	-20	-18	-15	-17	-17	-19	-20	-20	-20	-20	-19	-18	-17	-22.1	-15.1
15-Jan-07	-16	-15	-13	-12	-10	-2	2	1	-2	-2	-2	-1	1	2	2	1	0	0	0	1	2	0	1	2	-2.5	2.2
16-Jan-07	-1	-3	-2	-1	0	-1	-1	-1	-1	-2	0	0	1	1	1	1	-1	-1	-1	-2	-3	-4	-5	-7	-1.4	1.4
17-Jan-07	-8	-9	-10	-9	-9	-9	-8	-8	-8	-8	-6	-4	-4	-3	-3	-4	-6	-8	-8	-10	-10	-12	-13	-13	-7.8	-2.7
18-Jan-07	-14	-13	-12	-12	-13	-13	-15	-18	-18	-17	-16	-12	-11	-12	-11	-9	-9	-13	-14	-15	-17	-17	-17	-17	-13.9	-9.0
19-Jan-07	-17	-16	-14	-12	-11	-10	-9	-9	-10	-7	-5	-2	0	3	2	1	0	-1	0	-1	-3	-5	-6	-8	-5.9	2.6
20-Jan-07	-9	-9	-9	-8	-9	-11	-11	-12	-12	-12	-9	-3	0	-1	0	-1	-5	-6	-6	-5	-5	-7	-8	-7	-6.9	0.1
21-Jan-07	-5	-8	-10	-10	-9	-9	-9	-10	-9	-6	-6	-5	-3	-4	-2	0	3	3	2	2	2	1	0	1	-3.7	3.4
22-Jan-07	1	0	0	0	0	0	0	1	0	0	1	5	6	7	7	7	6	6	5	4	4	5	4	4	3.0	7.3
23-Jan-07	4	4	4	3	2	1	2	0	-1	-1	1	3	4	6	5	5	3	2	0	-1	-1	-2	-1	0	1.8	6.0
24-Jan-07	1	0	0	1	1	1	0	0	0	0	0	2	3	6	5	9	7	4	5	5	6	7	6	4	3.0	8.6
25-Jan-07	1	-1	-4	-2	1	5	4	4	3	2	3	3	3	1	0	0	-2	-4	-4	-5	-4	-5	-6	-8	-0.6	5.0
26-Jan-07	-9	-10	-10	-11	-12	-10	-12	-12	-14	-13	-11	-9	-5	-5	-5	-5	-6	-8	-10	-10	-11	-11	-14	-17	-10.0	-4.8
27-Jan-07	-19	-19	-18	-18	-18	-18	-18	-18	-19	-18	-14	-12	-11	-9	-8	-7	-8	-7	-5	-2	-3	-3	-2	-2	-11.4	-1.7
28-Jan-07	-3	-6	-7	-9	-10	-11	-11	-11	-11	-11	-8	-3	-2	-4	-4	-5	-7	-7	-10	-10	-9	-9	-7	-6	-7.6	-2.5
29-Jan-07	-5	-6	-6	-6	-7	-6	-6	-7	-7	-7	-5	-4	-2	-1	0	0	-1	-3	-4	-6	-9	-11	-12	-11	-5.6	0.4
30-Jan-07	-6	-5	-6	-7	-8	-9	-10	-10	-7	-6	-4	-3	-2	-1	0	-1	-1	-4	-5	-7	-8	-9	-10	-11	-5.9	0.0
31-Jan-07	-13	-16	-15	-15	-15	-13	-8	-3	-2	-3	-3	-2	-1	-1	-1	-1	-2	-2	-2	-2	-3	-3	-4	-4	-5.6	-1.1
Hourly Avg	-8.3	-8.8	-9.0	-9.1	-9.0	-8.5	-8.7	-8.7	-8.7	-8.4	-6.9	-5.0	-4.0	-3.3	-2.9	-3.0	-4.1	-5.4	-6.1	-6.5	-7.1	-7.4	-7.8	-8.1		
Hourly Max	4.6	4.4	3.7	3.5	3.4	5.0	3.9	3.6	2.7	2.1	2.8	4.5	6.4	6.7	7.0	8.6	6.9	5.8	5.0	5.2	5.9	6.9	5.9	4.4		

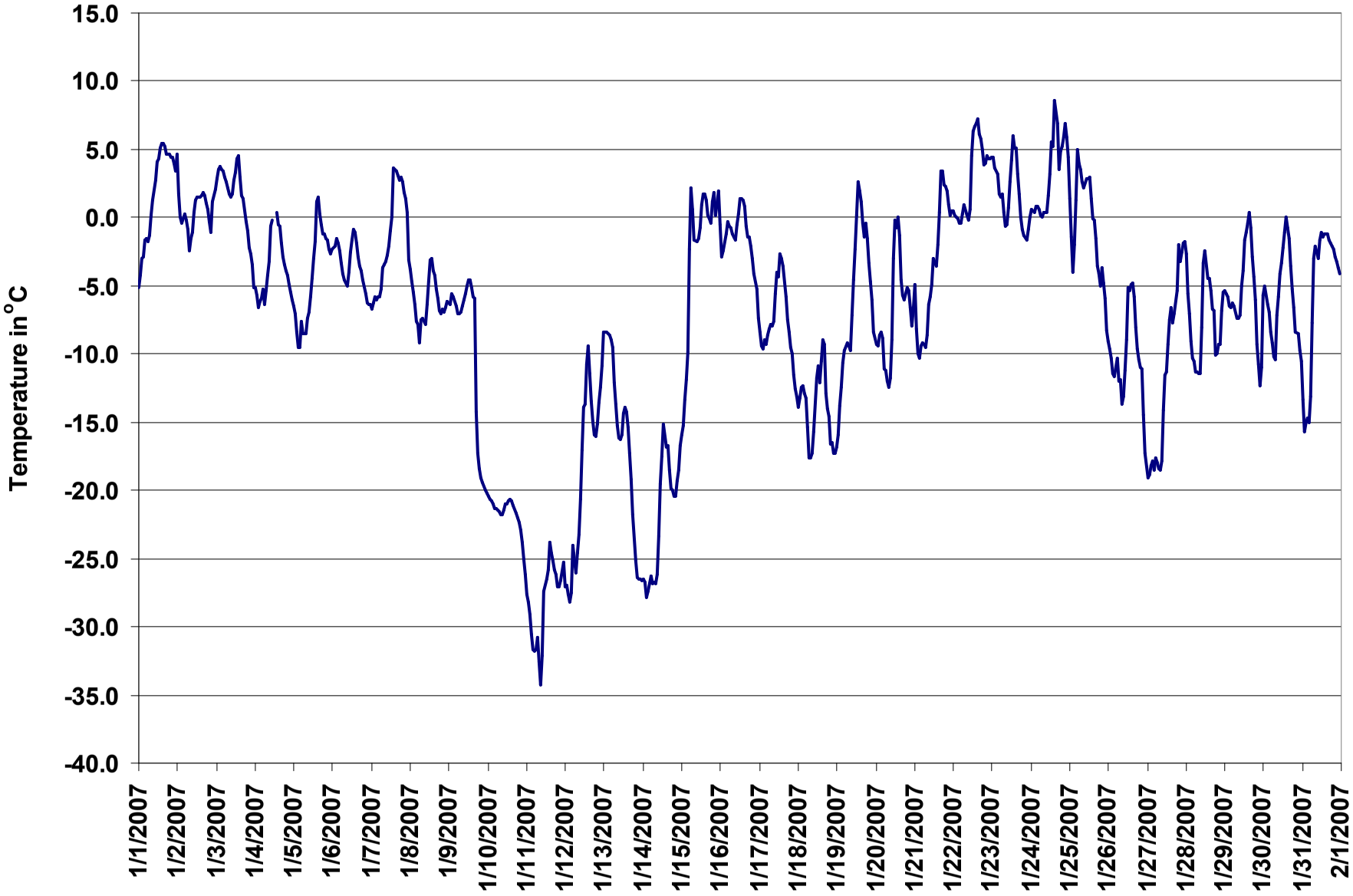


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

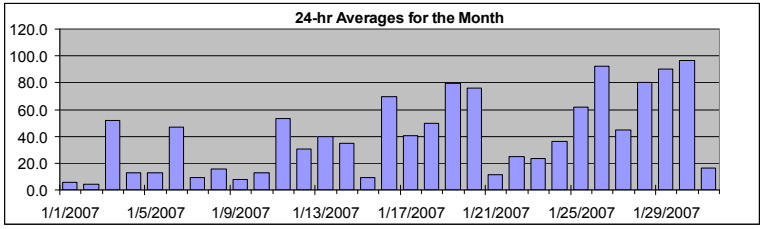
PASZA - Henry Pirker - Solar Radiation Monthly Summary

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	574.6	W/m²	30-Jan	11:00 12:00
Maximum 24-hr Value:	96.3	W/m²	30-Jan	

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
	501.4	254.6	23.9	0.0	0.0	0.0	0.0	40.1 W/m²	0.0 W/m²

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	0	0	0	0	0	0	0	0	0	1	7	23	32	32	23	14	2	0	0	0	0	0	0	0	5.6	32.3
2-Jan-07	0	0	0	0	0	0	0	0	0	3	17	28	26	18	7	4	1	0	0	0	0	0	0	0	4.3	27.7
3-Jan-07	0	0	0	0	0	0	0	0	0	24	368	364	256	119	83	28	9	0	0	0	0	0	0	0	52.1	368.1
4-Jan-07	0	0	0	0	0	0	0	0	0	5	23	55	P	94	60	55	10	0	0	0	0	0	0	0	13.1	94.0
5-Jan-07	0	0	0	0	0	0	0	0	0	2	11	30	55	73	94	43	4	0	0	0	0	0	0	0	13.0	94.0
6-Jan-07	0	0	0	0	0	0	0	0	0	8	242	383	228	128	87	40	5	0	0	0	0	0	0	0	46.7	382.6
7-Jan-07	0	0	0	0	0	0	0	0	0	4	17	31	49	51	46	20	3	0	0	0	0	0	0	0	9.2	50.9
8-Jan-07	0	0	0	0	0	0	0	0	0	11	45	87	91	68	46	24	4	0	0	0	0	0	0	0	15.7	91.0
9-Jan-07	0	0	0	0	0	0	0	0	0	3	19	33	31	41	34	17	3	0	0	0	0	0	0	0	7.6	41.5
10-Jan-07	0	0	0	0	0	0	0	0	0	3	21	59	61	61	60	39	7	0	0	0	0	0	0	0	13.0	60.7
11-Jan-07	0	0	0	0	0	0	0	0	0	47	329	395	176	104	142	69	21	0	0	0	0	0	0	0	53.4	395.1
12-Jan-07	0	0	0	0	0	0	0	0	0	35	185	175	108	105	80	34	8	0	0	0	0	0	0	0	30.4	184.5
13-Jan-07	0	0	0	0	0	0	0	0	0	8	36	163	299	206	128	85	21	0	0	0	0	0	0	0	39.4	299.0
14-Jan-07	0	0	0	0	0	0	0	0	1	23	71	148	223	168	100	88	17	0	0	0	0	0	0	0	35.0	223.3
15-Jan-07	0	0	0	0	0	0	0	0	0	5	23	38	41	46	38	24	6	0	0	0	0	0	0	0	9.2	46.2
16-Jan-07	0	0	0	0	0	0	0	0	0	24	351	475	377	210	125	83	26	0	0	0	0	0	0	0	69.7	474.7
17-Jan-07	0	0	0	0	0	0	0	0	0	7	57	215	233	220	129	82	21	0	0	0	0	0	0	0	40.2	233.1
18-Jan-07	0	0	0	0	0	0	0	0	0	11	272	450	279	74	52	39	20	0	0	0	0	0	0	0	49.9	449.9
19-Jan-07	0	0	0	0	0	0	0	0	0	45	501	502	397	230	129	81	21	0	0	0	0	0	0	0	79.5	501.8
20-Jan-07	0	0	0	0	0	0	0	0	0	53	422	478	380	231	128	90	33	0	0	0	0	0	0	0	75.7	478.0
21-Jan-07	0	0	0	0	0	0	0	0	0	3	16	41	72	47	47	38	15	0	0	0	0	0	0	0	11.6	71.8
22-Jan-07	0	0	0	0	0	0	0	0	0	6	27	62	119	137	119	101	26	1	0	0	0	0	0	0	25.0	136.8
23-Jan-07	0	0	0	0	0	0	0	0	0	5	64	90	137	143	72	41	11	0	0	0	0	0	0	0	23.5	142.8
24-Jan-07	0	0	0	0	0	0	0	0	0	9	45	136	170	236	129	108	37	1	0	0	0	0	0	0	36.3	235.8
25-Jan-07	0	0	0	0	0	0	0	0	1	32	300	464	398	101	53	95	41	3	0	0	0	0	0	0	62.0	463.8
26-Jan-07	0	0	0	0	0	0	0	0	1	54	559	566	460	293	143	94	43	3	0	0	0	0	0	0	92.3	565.5
27-Jan-07	0	0	0	0	0	0	0	0	2	46	381	164	109	140	131	88	16	2	0	0	0	0	0	0	45.0	381.0
28-Jan-07	0	0	0	0	0	0	0	0	2	48	527	573	416	185	100	58	23	2	0	0	0	0	0	0	80.5	573.0
29-Jan-07	0	0	0	0	0	0	0	0	1	48	496	553	455	307	150	98	47	4	0	0	0	0	0	0	90.0	552.8
30-Jan-07	0	0	0	0	0	0	0	0	2	65	574	575	466	315	154	104	51	6	0	0	0	0	0	0	96.3	574.6
31-Jan-07	0	0	0	0	0	0	0	0	1	19	75	76	48	44	66	46	16	1	0	0	0	0	0	0	16.3	75.9
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	21.2	196.2	239.7	206.4	136.3	88.9	59.1	18.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	1.9	65.0	573.6	574.6	466.1	314.9	154.0	108.0	50.6	6.0	0.3	0.3	0.3	0.3	0.4	0.4		

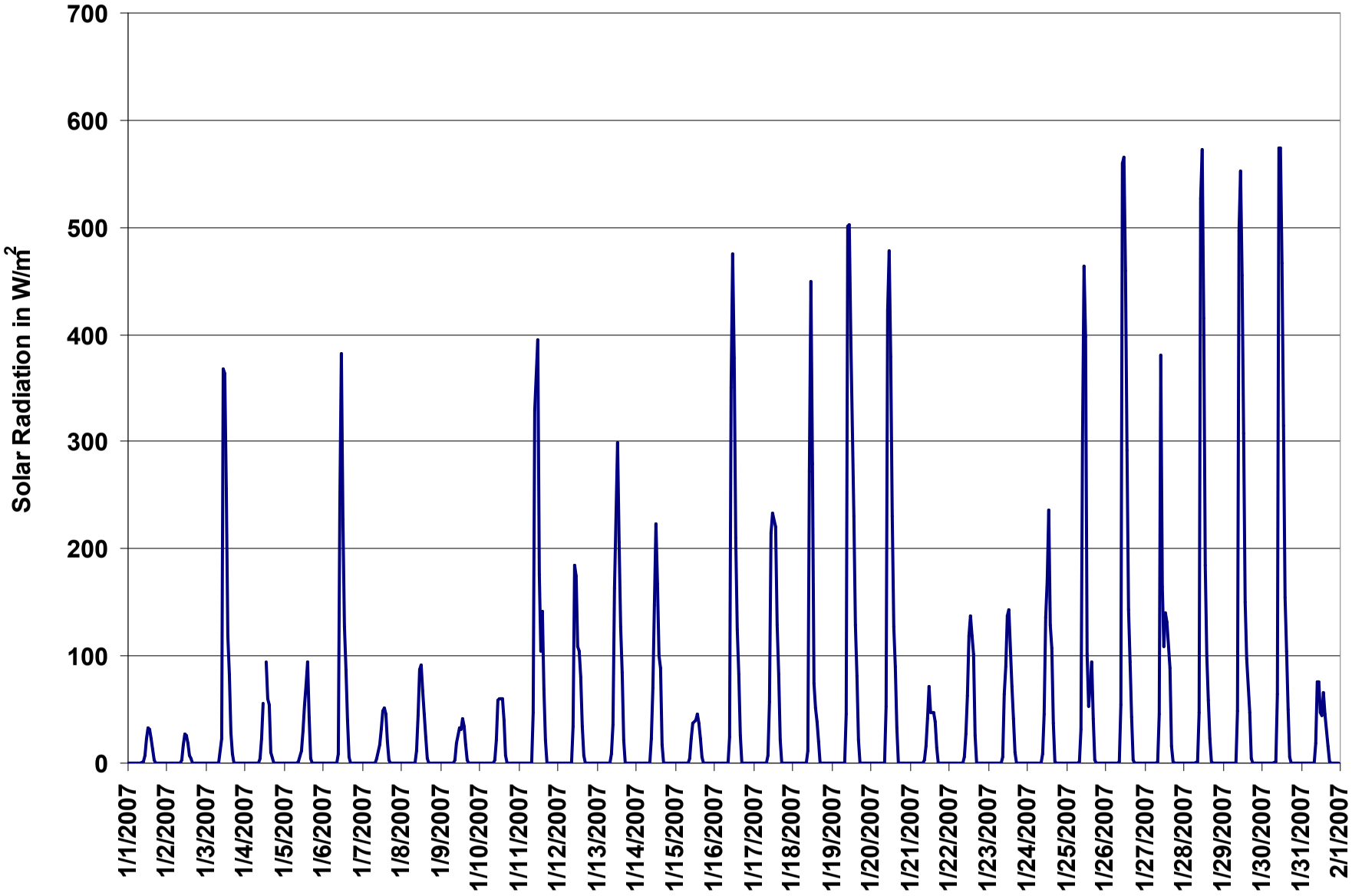


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

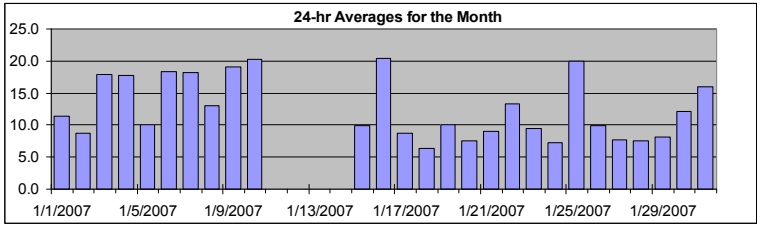
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	39.8	km/hr	9-Jan	18:00 19:00
Maximum 24-hr Value:	20.4	km/hr	16-Jan	

Calm Time:	0 hrs	**0%** calms	Operational Time: 643 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 86.4%

Percentile	99	95	75	50	25	5	1	AverageS
	36.1	28.4	15.3	9.5	7.0	5.6	4.8	12.4 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

Day	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-hr Scalar Average	Daily Max
1-Jan-07	7	7	9	9	10	9	6	8	10	11	10	9	10	12	14	16	23	20	12	13	10	11	9	14	11.3	23.2
2-Jan-07	13	6	6	7	8	9	7	8	10	9	8	10	13	13	10	9	7	2	N	N	N	N	9	10	8.7	13.2
3-Jan-07	17	32	33	31	29	29	30	28	26	19	12	13	11	11	7	16	15	14	11	11	7	10	7	10	17.9	33.5
4-Jan-07	9	5	7	8	9	8	9	7	10	14	20	23	P	27	26	27	29	30	26	25	25	23	22	19	17.7	29.6
5-Jan-07	16	12	7	7	7	11	10	11	10	11	11	10	8	8	15	18	12	7	9	9	7	6	6	10	10.0	18.4
6-Jan-07	10	15	20	24	25	21	18	22	19	14	16	19	20	20	17	21	26	26	23	20	13	11	9	8	18.3	26.4
7-Jan-07	7	10	10	10	9	9	13	13	14	11	9	8	6	14	26	22	24	24	27	36	33	34	37	29	18.2	37.0
8-Jan-07	31	26	23	12	10	12	9	16	18	13	16	15	17	15	13	11	7	7	7	6	6	7	8	9	13.0	30.6
9-Jan-07	8	7	10	12	13	13	13	14	13	13	12	12	10	9	11	14	17	36	40	34	38	37	37	36	19.0	39.8
10-Jan-07	36	34	33	34	31	28	25	24	23	21	19	18	17	16	14	15	13	12	9	10	9	4	N	N	20.3	36.4
11-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
12-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
13-Jan-07	N	N	N	N	N	6	6	7	4	6	5	5	N	N	N	N	N	N	N	N	N	N	N	N	N	7.3
14-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
15-Jan-07	N	N	N	N	N	9	15	9	8	7	6	7	9	9	9	9	9	6	7	11	12	8	16	23	9.9	23.5
16-Jan-07	8	7	12	16	23	26	28	24	27	19	21	15	19	29	23	27	26	25	26	24	23	22	13	7	20.4	28.7
17-Jan-07	6	7	7	10	10	7	6	6	5	7	10	13	14	10	12	9	8	13	12	11	10	7	5	5	8.7	13.7
18-Jan-07	6	6	7	7	8	6	6	8	6	6	7	6	7	6	6	5	5	7	5	5	7	6	7	6	6.3	7.8
19-Jan-07	6	7	6	7	9	9	6	8	8	9	5	11	15	25	20	15	15	14	14	10	6	7	6	6	10.0	24.8
20-Jan-07	7	5	5	6	7	6	6	7	7	6	8	5	6	8	9	8	6	8	9	13	11	8	9	10	7.5	13.2
21-Jan-07	11	6	7	7	6	8	7	7	6	9	7	8	7	8	10	14	20	20	11	11	8	5	5	6	9.0	19.6
22-Jan-07	7	8	7	6	7	8	10	9	7	6	9	10	8	11	10	16	27	34	25	9	13	24	24	25	13.4	33.6
23-Jan-07	26	29	21	16	9	8	11	7	7	6	6	7	7	6	8	6	5	5	6	6	6	7	5	7	9.4	29.2
24-Jan-07	6	6	6	7	7	6	7	6	6	6	6	6	5	6	7	6	6	6	7	9	13	11	10	10	7.2	12.6
25-Jan-07	12	9	6	9	15	27	24	28	30	22	24	28	25	29	27	26	23	16	14	18	22	20	15	7	19.9	29.7
26-Jan-07	11	12	11	9	12	12	11	14	11	10	14	12	8	13	13	10	9	6	6	7	8	7	7	7	10.0	14.4
27-Jan-07	7	6	7	6	6	6	7	7	7	7	8	6	7	7	7	6	5	7	9	10	9	10	14	13	7.7	14.2
28-Jan-07	15	8	9	7	8	7	7	9	8	8	7	5	6	7	6	6	6	5	8	6	6	8	9	11	7.6	14.5
29-Jan-07	12	10	7	7	7	10	7	6	7	7	8	9	10	11	9	9	7	7	5	6	8	7	8	8	8.1	12.2
30-Jan-07	16	18	13	13	9	9	10	11	15	15	15	19	19	15	12	17	14	11	8	8	6	5	5	6	12.1	19.4
31-Jan-07	7	6	7	8	9	10	16	26	24	19	18	22	16	19	18	20	17	19	17	17	15	17	20	16	15.9	25.5
1-hr Average	12.2	11.8	11.3	11.4	11.7	11.8	11.8	12.6	12.4	11.1	11.3	11.9	11.6	13.5	13.3	14.1	14.1	14.3	13.6	13.2	12.7	12.3	12.5	12.2		
Hourly Max	36.4	34.3	33.5	34.1	30.9	29.0	29.9	28.1	29.7	22.2	24.0	28.5	25.2	29.1	27.2	26.8	28.5	36.2	39.8	36.1	37.8	37.1	37.4	35.8		

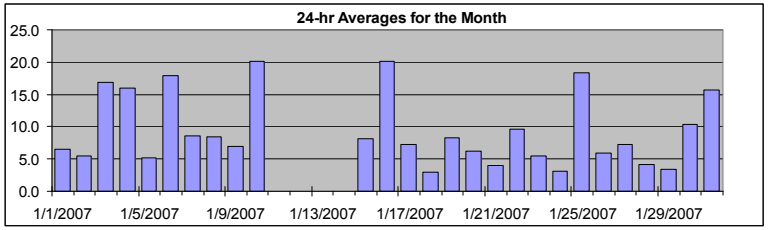
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	39.7	km/hr	9-Jan	18:00 19:00
Maximum 24-hr Value:	20.2	km/hr	10-Jan	

Calm Time:	1 hrs	**0%** calms	Operational Time:	642 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	86.4%

Percentile	99	95	75	50	25	5	1	AverageV
	35.9	28.3	15.0	9.3	6.3	3.3	1.8	53.2 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

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-hr Vector Average	Daily Max
1-Jan-07	4	7	8	9	9	9	4	8	10	11	10	9	10	12	14	16	23	19	12	13	5	9	8	13	6.5	23.1
2-Jan-07	10	4	5	7	8	7	3	8	10	8	8	10	13	11	10	9	6	2	N	N	N	N	9	10	5.5	12.9
3-Jan-07	17	32	33	31	29	29	30	28	26	19	12	13	11	10	6	16	15	13	10	10	5	10	3	9	16.9	33.4
4-Jan-07	8	4	7	7	9	7	9	7	9	13	20	23	P	27	25	27	28	30	26	25	25	23	22	19	16.0	29.5
5-Jan-07	16	12	7	4	3	9	10	11	10	10	11	10	8	8	14	18	11	4	9	9	7	4	4	10	5.2	18.2
6-Jan-07	10	15	20	24	25	20	18	22	19	14	16	19	20	20	16	21	26	26	23	20	13	11	8	7	17.8	26.4
7-Jan-07	7	10	10	10	9	9	12	13	14	11	9	7	6	13	26	22	24	24	27	36	33	33	35	29	8.5	36.0
8-Jan-07	31	26	23	11	9	11	8	16	18	12	15	14	17	14	13	10	5	6	6	6	6	7	7	9	8.4	30.5
9-Jan-07	8	5	10	12	12	13	13	13	13	12	12	11	10	9	11	14	16	36	40	33	38	37	37	36	7.0	39.7
10-Jan-07	36	34	33	34	31	28	25	24	23	21	19	18	17	16	14	14	13	12	9	10	9	4	N	N	20.2	36.3
11-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
12-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
13-Jan-07	N	N	N	N	N	4	6	7	4	6	5	5	N	N	N	N	N	N	N	N	N	N	N	N	N	7.2
14-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
15-Jan-07	N	N	N	N	N	7	14	9	7	4	5	6	9	9	7	9	8	4	6	9	12	8	16	23	8.2	23.2
16-Jan-07	5	5	11	16	22	26	28	24	27	18	20	15	19	29	23	27	26	25	26	24	23	22	12	7	20.2	28.6
17-Jan-07	5	6	6	10	9	7	5	5	5	6	9	12	14	10	12	9	8	13	11	11	9	6	3	2	7.3	13.7
18-Jan-07	6	5	6	6	7	6	3	6	6	4	5	6	6	6	5	5	5	6	4	2	7	2	7	6	2.9	6.8
19-Jan-07	6	6	5	7	7	8	2	6	5	9	4	11	13	25	19	15	15	12	14	10	4	6	6	calm	8.3	24.7
20-Jan-07	6	3	3	4	5	5	6	7	6	5	7	4	5	7	8	8	4	8	9	13	10	8	8	10	6.2	13.2
21-Jan-07	10	4	6	7	6	8	5	3	3	8	7	8	5	8	10	14	19	19	10	10	7	3	3	5	4.0	19.5
22-Jan-07	7	8	6	6	7	8	9	8	6	6	9	8	7	11	10	16	27	33	25	9	12	24	24	25	9.7	33.5
23-Jan-07	26	29	21	15	2	8	11	7	6	4	5	7	7	5	8	6	1	2	3	5	5	4	4	7	5.4	29.2
24-Jan-07	3	4	5	6	7	3	2	5	4	4	3	2	1	4	5	4	2	4	7	9	13	11	10	10	3.2	12.5
25-Jan-07	12	6	3	9	14	27	24	28	29	22	24	28	25	29	27	26	23	16	14	18	22	20	14	6	18.3	29.4
26-Jan-07	11	12	11	9	12	12	11	14	10	10	13	12	6	13	13	10	8	3	6	7	8	7	6	7	5.9	14.2
27-Jan-07	7	6	3	6	6	4	6	7	6	7	7	5	7	6	7	5	2	7	8	9	9	10	14	13	7.3	14.1
28-Jan-07	14	8	9	6	8	7	7	9	8	7	6	2	6	6	5	6	3	3	7	4	5	8	9	11	4.1	14.5
29-Jan-07	12	9	6	6	6	4	5	6	7	6	7	9	10	11	9	8	7	6	1	2	7	7	8	7	3.3	12.1
30-Jan-07	16	18	13	13	9	9	10	10	15	15	15	19	19	15	12	17	14	11	8	7	2	3	4	3	10.4	19.4
31-Jan-07	4	3	6	8	9	10	16	25	24	19	18	22	15	19	18	19	17	19	17	17	15	17	20	16	15.7	25.3
1-hr Vector	6.4	6.7	5.2	5.2	5.3	5.8	5.8	6.2	6.0	4.8	5.4	6.2	6.8	10.1	9.9	10.5	10.8	10.7	10.0	8.8	8.1	7.7	7.4	7.2		
Hourly Max	36.3	34.2	33.4	34.1	30.9	28.9	29.8	28.0	29.4	21.7	23.8	28.3	24.8	29.0	27.1	26.7	28.4	36.1	39.7	36.0	37.7	37.1	37.3	35.7		

PASZA - Henry Pirker - Wind Direction Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Calm Time:	0 hrs	**0%** calms			Operational Time:			743 hrs	
Calibration Time:		0 hrs			AMD Operational Uptime:			99.9%	
Percentile	99	95	75	50	25	5	1		Average
	342.2	322.0	294.1	251.0	183.9	79.6	27.1		259 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 / 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	WD Sector
1-Jan-07	106	119	107	110	107	96	68	99	123	134	146	142	166	182	211	226	234	232	240	227	133	135	196	263	174	S
2-Jan-07	242	311	151	97	134	153	143	126	152	146	112	77	88	107	73	93	81	126	110	92	119	185	201	206	128	SE
3-Jan-07	232	242	250	248	247	244	243	244	244	253	295	272	267	235	226	247	254	246	215	219	200	211	167	189	243	WSW
4-Jan-07	156	190	170	191	194	183	162	129	196	231	235	239	P	241	243	247	243	240	238	238	240	240	242	241	231	SW
5-Jan-07	242	236	238	246	243	222	134	117	115	115	114	119	101	152	230	234	215	169	149	143	143	75	52	268	181	S
6-Jan-07	233	246	266	262	262	253	240	242	242	235	236	250	258	252	247	247	243	241	240	239	228	222	227	187	245	WSW
7-Jan-07	126	131	113	102	104	124	95	101	105	105	96	91	122	245	247	256	243	243	242	242	249	248	269	294	232	SW
8-Jan-07	298	298	288	269	227	237	296	256	232	248	277	255	236	248	276	276	232	104	107	143	130	143	124	108	259	WSW
9-Jan-07	87	74	78	84	94	83	83	82	84	85	78	76	60	34	29	16	343	300	302	287	281	279	278	277	328	NNW
10-Jan-07	278	279	281	280	281	282	285	286	287	288	291	292	297	293	289	292	293	298	294	296	273	269	267	284	285	WNW
11-Jan-07	281	299	244	303	286	251	220	289	304	283	300	287	292	275	279	290	301	215	213	309	306	301	334	315	N	-
12-Jan-07	301	334	308	303	193	320	315	316	340	326	330	249	307	306	251	295	319	322	307	293	300	309	308	295	N	-
13-Jan-07	284	298	308	321	301	355	57	57	54	57	56	66	56	57	44	65	58	32	330	319	314	311	324	304	N	-
14-Jan-07	330	321	294	315	359	302	299	336	297	290	278	259	270	273	284	281	308	313	296	301	320	291	342	179	N	-
15-Jan-07	283	307	104	251	99	266	250	255	206	212	163	162	205	189	157	172	183	215	252	249	241	263	241	252	225	SW
16-Jan-07	225	217	261	253	250	239	240	236	233	244	241	231	241	245	259	247	242	243	248	244	242	242	252	277	244	WSW
17-Jan-07	276	287	283	318	284	315	301	310	296	255	227	244	245	232	240	241	233	248	227	220	222	309	250	350	259	W
18-Jan-07	144	120	144	137	117	104	318	295	305	316	294	271	293	288	291	292	306	321	284	327	325	286	310	328	300	WNW
19-Jan-07	300	302	291	285	339	283	132	169	230	272	284	291	288	252	265	289	297	278	248	250	269	248	322	236	273	W
20-Jan-07	320	332	26	222	287	308	289	305	303	323	306	259	218	272	253	276	295	238	249	260	291	290	266	234	277	W
21-Jan-07	255	284	127	130	123	124	145	301	85	107	124	139	180	251	227	234	241	250	233	251	282	350	160	22	217	SW
22-Jan-07	72	128	100	130	156	153	199	209	195	162	203	264	294	257	302	249	260	261	263	235	234	243	244	245	239	WSW
23-Jan-07	242	242	243	247	343	249	246	256	232	213	148	152	161	203	154	108	49	79	255	333	311	286	317	15	243	WSW
24-Jan-07	226	339	103	106	106	40	341	131	100	127	274	228	296	308	310	147	187	139	138	124	138	134	132	131	133	SE
25-Jan-07	144	324	293	196	256	253	259	257	264	260	253	261	276	285	284	285	279	272	262	267	261	264	274	285	266	W
26-Jan-07	315	315	325	322	309	305	314	306	313	322	314	297	260	260	243	219	236	337	82	98	102	97	98	282	301	WNW
27-Jan-07	299	306	306	297	284	304	299	322	306	286	307	285	297	322	284	327	1	340	337	350	291	314	317	312	311	NW
28-Jan-07	295	279	295	290	293	302	310	295	293	286	279	344	307	278	299	288	3	64	316	56	84	94	95	85	313	NW
29-Jan-07	87	93	101	135	13	131	299	269	266	298	282	281	277	277	271	249	236	247	183	340	294	313	295	307	279	W
30-Jan-07	297	297	299	291	291	297	298	294	298	299	303	292	287	278	246	253	248	270	278	323	176	241	22	90	286	WNW
31-Jan-07	288	322	271	314	287	281	275	292	301	303	298	311	302	297	302	305	298	304	314	310	309	304	294	301	300	WNW
Hourly Avg	261	271	265	254	262	252	258	260	252	256	261	262	263	257	259	257	257	259	257	256	251	256	260	267		

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

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs **0%** calms	Operational Time:	743 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1
	64.6	44.0	18.6	10.0	5.4	3.2	2.7

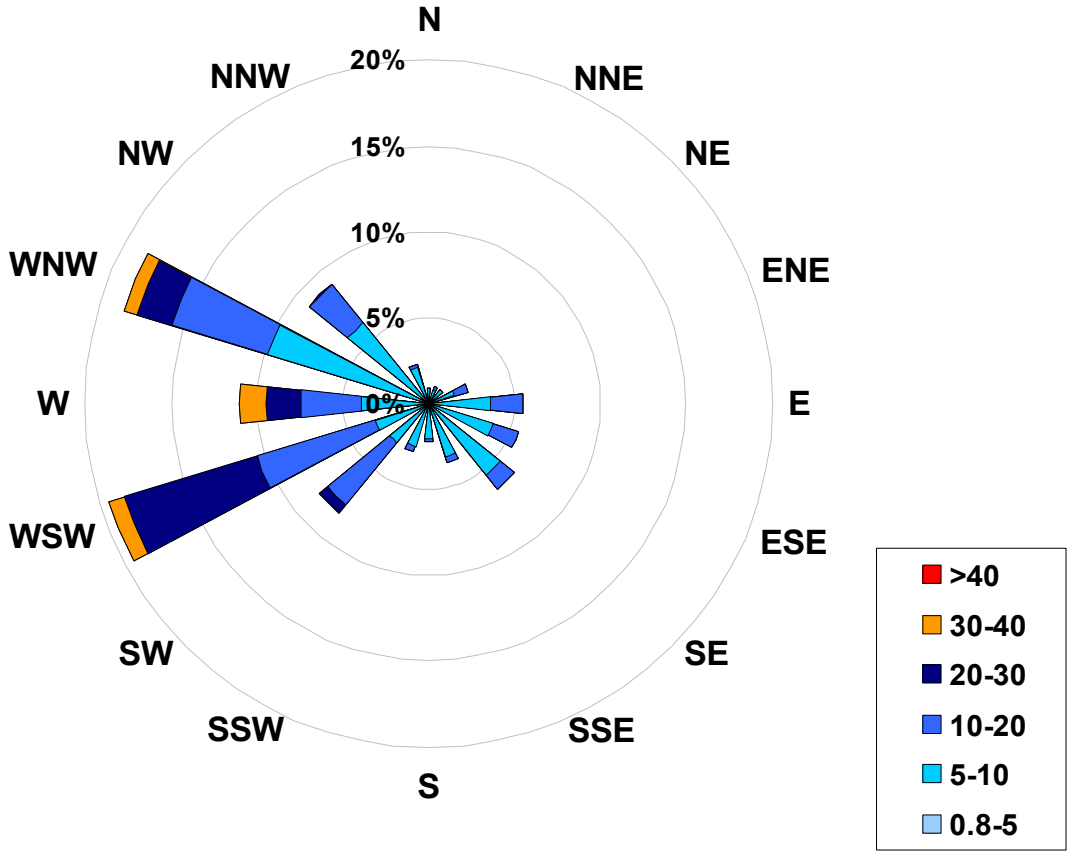
Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	29	12	11	13	27	11	33	10	12	8	6	6	8	5	7	7	5	6	10	7	28	12	32	13	32.6
2-Jan-07	13	53	32	15	14	25	43	14	16	8	11	9	5	27	12	14	10	26	25	21	34	18	5	7	53.1
3-Jan-07	6	3	3	4	4	4	3	3	4	4	10	6	5	12	16	5	5	8	7	4	30	6	31	11	31.3
4-Jan-07	16	26	13	10	6	36	9	9	12	6	6	4	P	4	4	4	4	3	4	4	4	3	3	3	36.2
5-Jan-07	3	5	18	22	27	10	12	8	10	9	10	9	7	15	17	6	15	47	12	6	7	21	42	8	47.1
6-Jan-07	8	5	3	3	3	5	4	2	3	5	5	5	5	5	6	6	3	3	10	3	5	10	10	12	11.7
7-Jan-07	9	8	6	6	8	11	10	9	5	8	10	18	19	24	4	4	4	3	4	3	5	5	10	5	24.2
8-Jan-07	4	4	5	13	7	7	22	9	5	15	9	7	6	8	4	7	30	20	21	11	9	8	9	5	30.0
9-Jan-07	13	40	8	6	5	4	6	5	5	6	6	7	8	13	13	8	8	4	4	4	3	3	2	3	39.7
10-Jan-07	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	7	6	6	4	6	6	5	6	12	12.4
11-Jan-07	25	37	47	14	12	33	15	21	21	37	13	12	14	9	5	5	14	30	32	26	17	14	15	18	47.2
12-Jan-07	14	9	13	28	59	9	7	5	40	7	28	65	12	42	52	9	21	42	17	21	14	11	13	6	64.7
13-Jan-07	4	8	7	7	4	22	11	9	10	9	9	9	13	19	17	14	12	25	23	5	6	7	19	10	25.0
14-Jan-07	7	13	9	13	22	15	12	17	8	16	47	25	32	37	15	12	10	20	34	13	14	43	54	42	54.4
15-Jan-07	52	27	76	69	60	42	8	17	16	28	42	24	11	7	29	7	9	56	20	15	5	14	4	6	76.0
16-Jan-07	53	32	13	5	4	4	4	4	4	10	5	6	6	4	5	4	3	4	3	4	3	3	9	18	53.1
17-Jan-07	38	17	23	12	11	27	21	33	18	13	8	7	5	8	5	6	8	6	9	3	5	23	36	32	37.5
18-Jan-07	17	14	14	20	10	12	27	14	15	33	22	21	10	12	16	21	20	19	24	56	15	47	10	15	55.9
19-Jan-07	19	14	26	11	27	11	66	36	30	14	44	8	12	3	3	5	6	13	7	7	50	24	37	47	65.8
20-Jan-07	21	31	42	21	21	15	21	11	22	17	8	38	23	11	9	11	32	10	7	5	11	8	11	7	42.2
21-Jan-07	9	27	11	13	15	13	45	64	65	17	14	8	22	9	8	9	6	4	14	16	17	57	38	38	64.6
22-Jan-07	9	11	15	12	9	8	7	9	21	19	15	21	20	12	17	10	3	3	4	9	11	4	4	4	21.4
23-Jan-07	3	3	4	9	30	11	8	13	14	29	12	19	14	16	12	9	57	33	33	17	15	36	52	15	57.4
24-Jan-07	38	41	27	17	23	59	74	43	41	58	46	75	59	37	37	41	57	48	17	8	4	5	7	6	74.7
25-Jan-07	5	54	65	11	8	5	5	4	7	7	5	4	4	3	3	3	3	3	5	2	3	3	8	22	64.5
26-Jan-07	6	5	3	7	4	5	4	6	7	9	6	18	30	6	8	13	18	13	10	8	5	5	42	9	42.3
27-Jan-07	18	19	70	13	13	40	20	9	16	10	9	25	10	16	15	29	42	15	19	18	11	7	4	5	69.9
28-Jan-07	5	9	9	17	11	12	9	6	5	10	16	40	17	13	14	13	22	39	16	17	33	18	6	7	40.5
29-Jan-07	6	9	30	43	27	27	39	17	11	14	15	6	5	4	4	10	14	11	32	25	31	14	12	8	43.5
30-Jan-07	3	3	5	4	7	5	5	7	3	4	4	3	3	4	13	4	7	8	11	14	30	51	26	17	50.9
31-Jan-07	20	42	19	17	9	8	7	4	4	4	3	4	10	4	5	5	4	4	5	4	5	4	4	7	42.1
Hourly Max	53	54	76	69	60	59	74	64	65	58	47	75	59	42	52	41	57	56	34	56	50	57	54	47	

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for January 2007



Calms:	**0%**

Frequency Distribution of Wind in km/hr			
Range			**Frequency (hrs)**
0.8	<	5	12
5	to	10	330
10	to	20	196
20	to	30	84
30	to	40	21
	>	40	0
Total Non-Zero Values			643

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

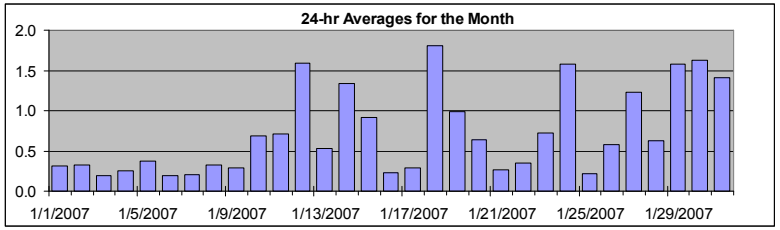
Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	11.1	ppb	31-Jan	3:00 4:00
Maximum 24-hr Average:	1.8	ppb	18-Jan	



AIC Time:	34 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	4.1	2.5	0.9	0.4	0.2	0.0	0.0	0.7 ppb	0.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	0.6
2-Jan-07	0	A	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0.3	0.9
3-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.5
4-Jan-07	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0.2	0.9
5-Jan-07	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	1	A	0	0	0.4	1.3
6-Jan-07	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0.2	0.7
7-Jan-07	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.8
8-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	1	0	0	0	0.3	1.1
9-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	0.3	1.0
10-Jan-07	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0
11-Jan-07	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	A	0	0	1	1	0	1	1	1	0.7	1.5
12-Jan-07	2	2	2	2	2	2	2	3	2	2	2	2	1	1	A	1	1	1	2	2	2	1	1	1	1.6	2.6
13-Jan-07	1	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	1	2	1	0.5	1.5
14-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	3	4	2	2	2	2	2	2	2	1.3	3.6
15-Jan-07	2	2	2	1	1	1	1	1	1	2	1	A	1	0	0	1	2	1	0	0	0	0	0	0	0.9	1.8
16-Jan-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0.2	0.5
17-Jan-07	0	0	0	0	1	0	1	1	1	A	1	C	C	C	A	0	0	0	0	0	0	0	0	0	0.3	1.3
18-Jan-07	0	0	0	0	0	A	0	1	0	0	1	2	2	3	3	4	3	3	4	4	3	3	3	3	1.8	4.0
19-Jan-07	3	2	2	2	A	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	1	1	2	1.0	2.5
20-Jan-07	2	1	1	A	0	0	1	1	0	0	1	1	1	0	0	0	1	1	2	0	0	0	0	0	0.6	1.9
21-Jan-07	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0.3	0.9
22-Jan-07	0	A	0	0	0	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
23-Jan-07	A	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	2	3	A	0.7	2.9
24-Jan-07	2	2	1	1	1	0	0	0	0	1	4	5	2	2	1	2	2	3	2	2	1	1	A	1	1.6	5.1
25-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
26-Jan-07	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	A	0	0	0	0.6	1.1
27-Jan-07	0	1	1	1	1	1	2	1	1	2	2	1	3	1	2	1	1	2	2	A	1	1	1	1	1.2	2.8
28-Jan-07	1	0	1	1	1	1	0	0	2	0	0	0	0	0	1	1	0	1	A	1	1	1	1	1	0.6	1.9
29-Jan-07	0	0	0	0	0	0	0	1	1	1	1	1	2	4	5	6	3	A	2	1	1	3	2	1	1.6	5.9
30-Jan-07	0	1	1	1	1	0	1	1	1	1	3	4	4	3	2	1	A	1	1	1	1	4	3	2	1.6	4.4
31-Jan-07	2	3	3	11	5	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	1.4	11.1
Hourly Avg	0.7	0.6	0.6	0.8	0.6	0.5	0.5	0.6	0.7	0.7	0.9	1.0	0.8	0.8	0.8	0.9	0.8	0.7	0.8	0.7	0.6	0.8	0.8	0.6		
Hourly Max	2.5	2.9	3.2	11.1	4.6	1.5	2.1	2.6	2.4	2.1	3.9	5.1	4.1	4.3	5.2	5.9	3.6	3.2	4.0	3.6	3.0	4.0	3.1	2.6		

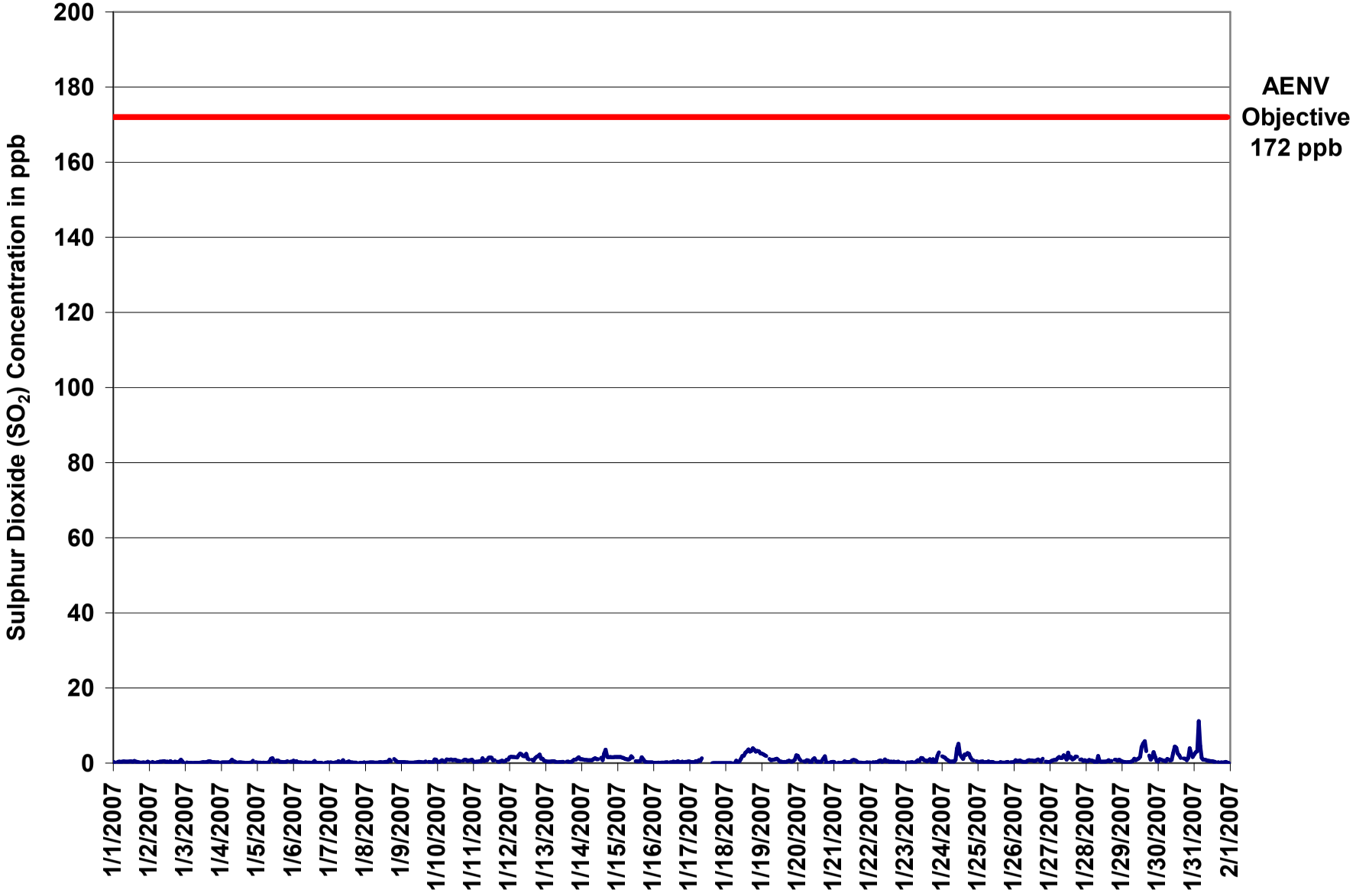


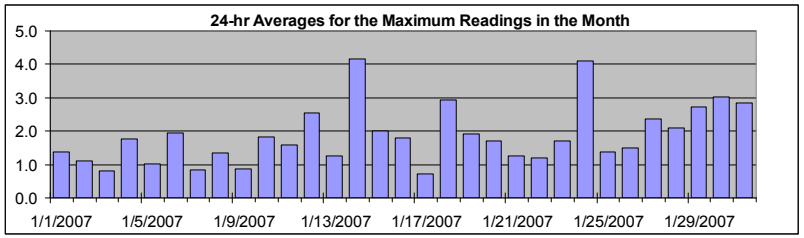
Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	41.6	ppb	14-Jan	16:00 17:00
Maximum 24-hr Value:	4.1	ppb	14-Jan	

AIC Time:	34 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	11.7	4.6	2.0	1.2	0.8	0.6	0.0	1.9 ppb	1.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	1	7	1	1	1	1	1	1	6	1.4	6.7
2-Jan-07	1	A	1	1	0	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	2	3	1	1.1	3.4
3-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	0.8	1.7
4-Jan-07	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	21	A	1	1.8	21.2
5-Jan-07	1	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	2.3
6-Jan-07	1	1	2	1	1	1	1	1	1	1	1	1	1	1	28	1	0	1	1	1	A	1	1	1	1.9	27.5
7-Jan-07	1	1	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0.8	2.3
8-Jan-07	1	1	1	1	1	5	1	1	1	1	1	1	1	3	1	1	2	1	A	3	2	1	1	1	1.3	5.0
9-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	0.9	1.7
10-Jan-07	1	1	1	1	1	1	2	1	2	5	1	2	2	1	1	2	A	2	2	2	1	8	1	2	1.8	8.3
11-Jan-07	1	1	1	1	1	1	3	1	2	2	2	3	3	2	1	A	1	1	1	2	1	2	2	2	1.6	2.6
12-Jan-07	2	3	2	2	2	2	4	4	4	3	3	4	2	2	A	2	2	3	3	3	3	2	2	1	2.5	4.2
13-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	2	2	3	2	1.3	3.3
14-Jan-07	2	2	1	1	2	1	1	2	2	2	2	2	A	10	2	4	42	4	2	3	2	2	3	2	4.1	41.6
15-Jan-07	2	2	2	2	2	2	2	2	2	4	3	A	1	1	1	1	5	5	1	1	1	1	1	2	2.0	4.9
16-Jan-07	1	1	0	1	0	4	1	1	1	1	A	1	1	7	1	1	3	1	1	9	1	1	1	3	1.8	9.0
17-Jan-07	1	1	1	1	1	1	2	1	3	A	2	C	C	C	A	0	0	0	0	0	0	0	0	0	0.7	2.8
18-Jan-07	0	0	1	0	0	A	1	2	1	1	3	3	4	4	4	5	4	4	8	6	4	5	4	3	2.9	7.6
19-Jan-07	3	3	3	2	A	2	2	2	2	2	2	2	1	1	1	1	1	2	2	1	1	1	2	7	1.9	6.6
20-Jan-07	3	2	1	A	1	1	2	2	1	1	2	2	1	1	1	1	2	5	5	1	0	1	1	1	1.7	4.9
21-Jan-07	1	1	A	1	0	1	1	2	1	1	1	1	4	2	3	3	2	1	1	1	1	1	1	1	1.3	4.2
22-Jan-07	1	A	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	2	1	1	3	1	1.2	3.1
23-Jan-07	A	1	1	1	1	1	1	2	2	2	2	3	2	1	1	2	2	1	2	1	2	3	4	A	1.7	4.1
24-Jan-07	3	2	2	2	2	1	1	1	1	2	27	18	4	3	3	3	3	4	5	3	2	1	A	1	4.1	27.4
25-Jan-07	1	1	1	1	1	2	1	2	2	2	1	1	1	0	1	8	1	1	1	1	3	A	1	1	1.4	7.9
26-Jan-07	1	4	1	1	1	1	1	1	1	2	1	1	2	1	1	2	2	3	1	3	A	1	1	1	1.5	3.8
27-Jan-07	1	1	1	2	2	2	2	2	2	3	3	2	6	2	4	2	4	4	3	A	1	2	1	2	2.4	5.9
28-Jan-07	3	1	5	2	1	1	1	1	16	1	1	1	2	1	1	2	1	1	A	2	2	2	2	2	2.1	16.0
29-Jan-07	1	1	1	1	1	1	1	1	2	1	2	2	2	6	8	8	6	A	3	2	3	5	4	1	2.7	7.7
30-Jan-07	1	2	1	1	1	1	3	2	2	2	4	9	5	4	5	2	A	3	4	2	4	5	4	2	3.0	8.6
31-Jan-07	3	4	5	21	12	3	2	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2.8	21.1
Hourly Avg	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.4	1.9	1.7	2.5	2.2	1.9	2.2	2.7	2.0	3.4	1.8	1.8	1.9	1.5	2.6	1.8	1.7		
Hourly Max	3.4	4.1	5.1	21.1	11.8	5.0	4.2	3.9	16.0	4.8	27.4	18.3	5.9	9.8	27.5	7.9	41.6	4.8	7.6	9.0	4.1	21.2	4.2	6.6		

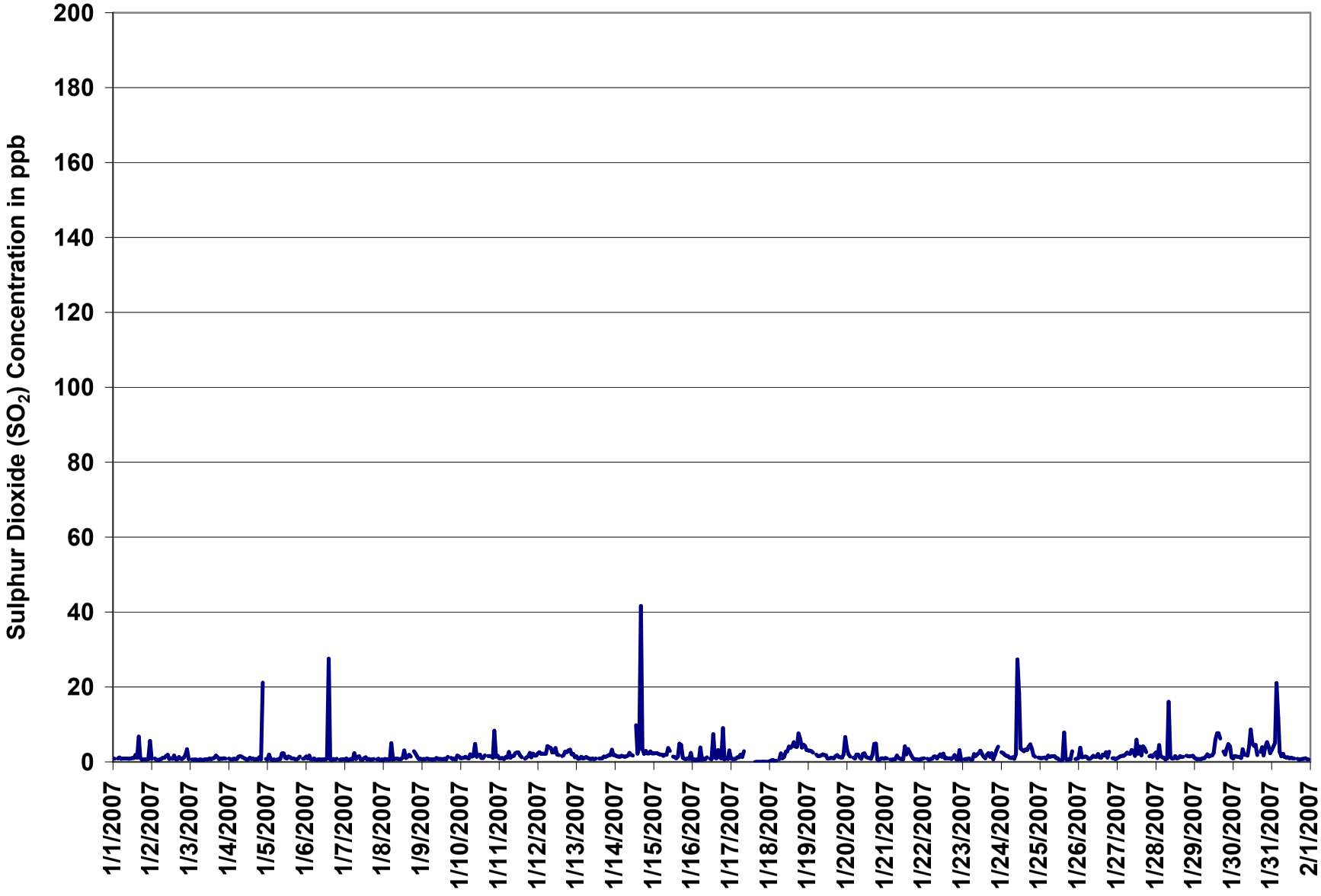
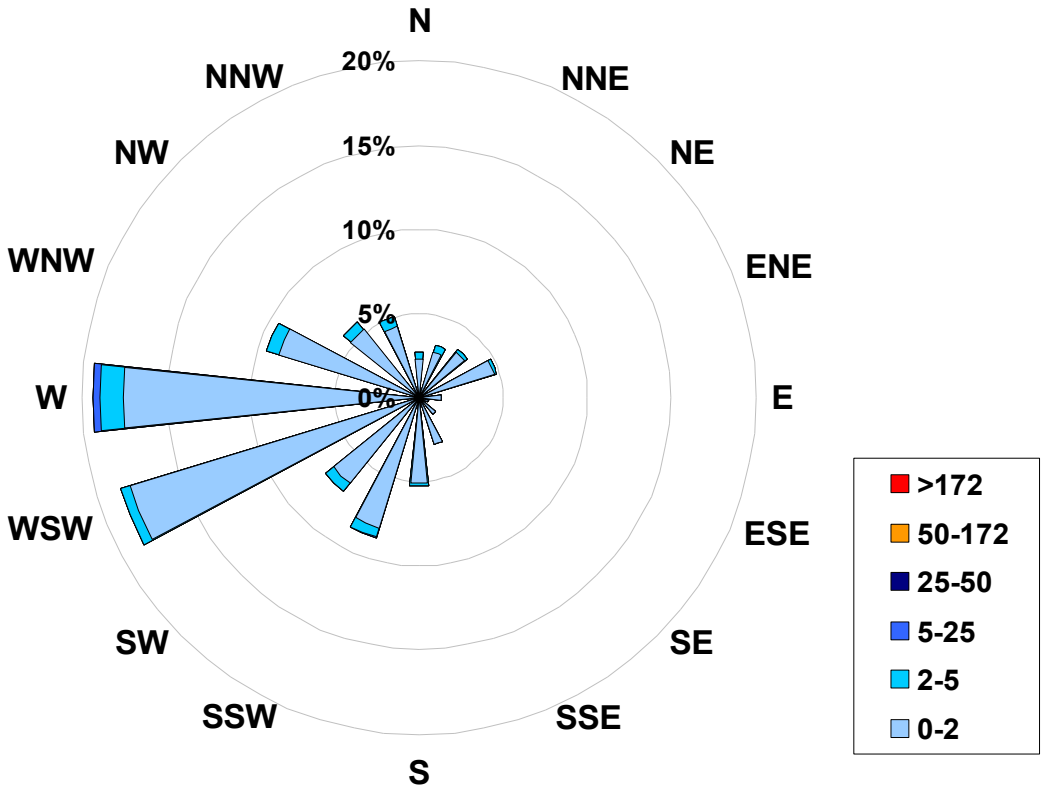


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	657
2	to	5	46
5	to	25	4
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			707

PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

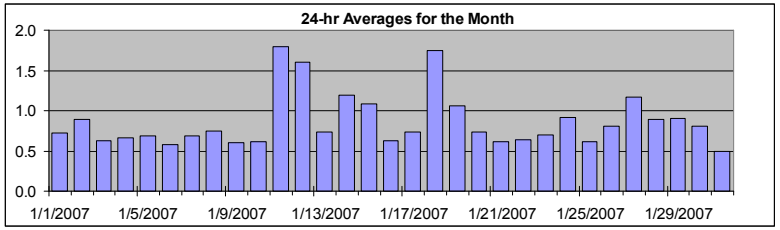
Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	3.4	ppb	11-Jan	16:00 17:00
Maximum 24-hr Value:	1.8	ppb	11-Jan	



AIC Time:	34 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	1.8	0.9	0.7	0.6	0.5	0.3	0.9 ppb	0.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.7	1.3
2-Jan-07	0	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
3-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.8
4-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	1.0
5-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	A	1	1	0.7	1.4
6-Jan-07	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.7
7-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.0
8-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	1.1
9-Jan-07	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.8
10-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.6	0.7
11-Jan-07	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	A	3	3	3	3	3	3	3	3	1.8	3.4
12-Jan-07	3	2	2	2	2	2	2	2	2	2	2	2	1	1	A	1	1	1	2	2	2	1	1	0	1.6	2.5
13-Jan-07	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	1.5
14-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	2	2	2	1.2	1.7
15-Jan-07	2	2	2	2	2	2	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
16-Jan-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
17-Jan-07	1	1	1	1	1	1	1	1	1	A	1	C	C	C	A	1	1	1	1	1	1	1	1	1	0.7	1.2
18-Jan-07	1	1	1	1	1	A	1	1	1	1	1	2	2	2	2	3	2	2	3	3	3	3	3	2	1.7	3.1
19-Jan-07	3	2	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.5
20-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
21-Jan-07	1	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0.6	0.9
22-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
23-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	0.7	1.3
24-Jan-07	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	2	2	2	1	1	1	1	A	1	0.9	1.7
25-Jan-07	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	A	1	1	0.6	1.1
26-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.0
27-Jan-07	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.2	1.7
28-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.1
29-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.3
30-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.1
31-Jan-07	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.5	1.0
Hourly Avg	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.8		
Hourly Max	2.5	2.3	2.2	2.0	2.0	2.0	2.0	2.3	2.1	1.7	1.6	1.9	2.1	2.2	2.6	2.7	3.4	2.6	3.0	2.9	2.8	3.1	2.7	2.5		

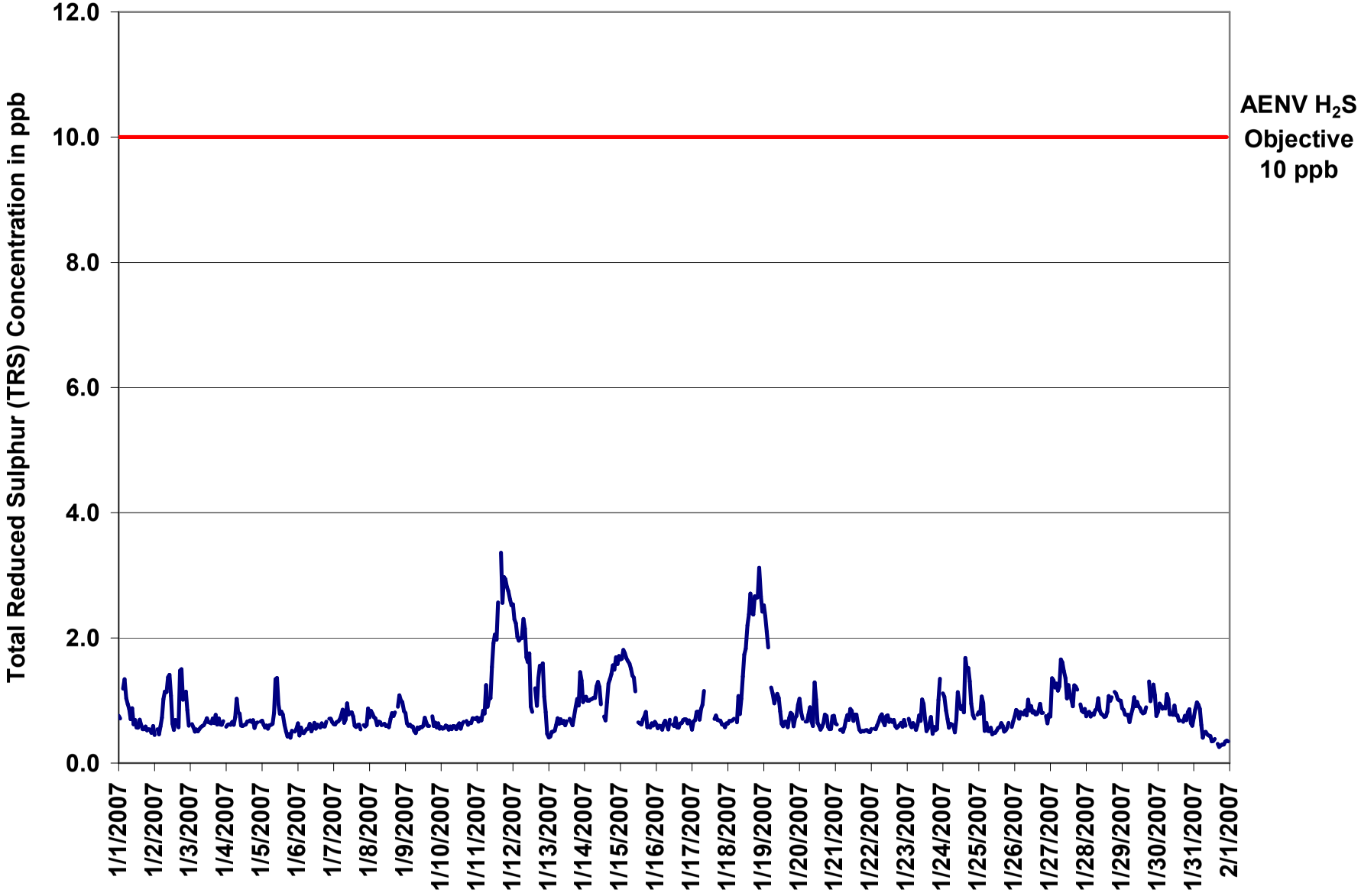


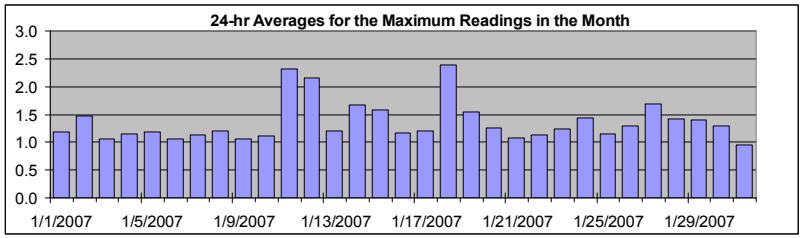
Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	3.9	ppb	11-Jan	16:00 17:00
Maximum 24-hr Value:	2.4	ppb	18-Jan	

AIC Time:	34 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	2.4	1.5	1.2	1.0	0.9	0.8	1.4 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**

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-Jan-07	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.8
2-Jan-07	1	A	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	1	2	2	2	1	1.5	2.4
3-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.1	1.3
4-Jan-07	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1.1	1.6
5-Jan-07	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1.2	2.0
6-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1.1	1.9
7-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.5
8-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	1	1.2	1.7
9-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.3
10-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1.1	2.0
11-Jan-07	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	A	4	3	3	3	3	3	3	3	2.3	3.9
12-Jan-07	3	3	3	2	2	2	2	3	3	2	2	2	1	1	A	2	2	2	2	2	2	2	2	1	2.2	3.3
13-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	2	2	1	1.2	2.2
14-Jan-07	1	2	2	1	2	2	2	1	2	2	2	1	A	1	1	1	2	2	2	2	2	2	2	2	1.7	2.2
15-Jan-07	2	2	2	2	2	2	2	2	2	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1.6	2.3
16-Jan-07	1	1	1	1	1	2	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1.2	1.8
17-Jan-07	1	1	1	1	1	1	1	2	2	A	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1.2	1.8
18-Jan-07	1	1	1	1	1	A	1	2	1	2	3	2	2	3	3	3	3	3	4	4	4	4	3	3	2.4	3.9
19-Jan-07	3	3	3	2	A	2	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	3.1
20-Jan-07	2	1	1	A	1	1	1	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1.3	2.4
21-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.3
22-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.5
23-Jan-07	A	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	A	1.2	1.8
24-Jan-07	2	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	2	2	2	1	1	1	A	1	1.4	2.4
25-Jan-07	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1.1	2.1
26-Jan-07	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	A	1	1	1	1.3	1.6
27-Jan-07	1	2	2	2	2	2	2	3	2	2	2	2	2	2	1	1	2	2	2	A	2	1	1	1	1.7	2.6
28-Jan-07	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	2	A	2	2	1	1	1	1.4	2.5
29-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	A	2	1	2	2	2	1	1.4	2.0
30-Jan-07	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	A	1	1	1	1	2	1	1	1.3	1.6
31-Jan-07	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.5
Hourly Avg	1.4	1.4	1.4	1.3	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.4	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.5	1.4	1.3		
Hourly Max	3.1	2.8	2.7	2.4	2.3	2.4	2.5	3.3	2.6	2.3	2.5	2.5	2.5	2.9	3.2	3.2	3.9	3.2	3.8	3.9	3.7	3.9	3.2	2.9		

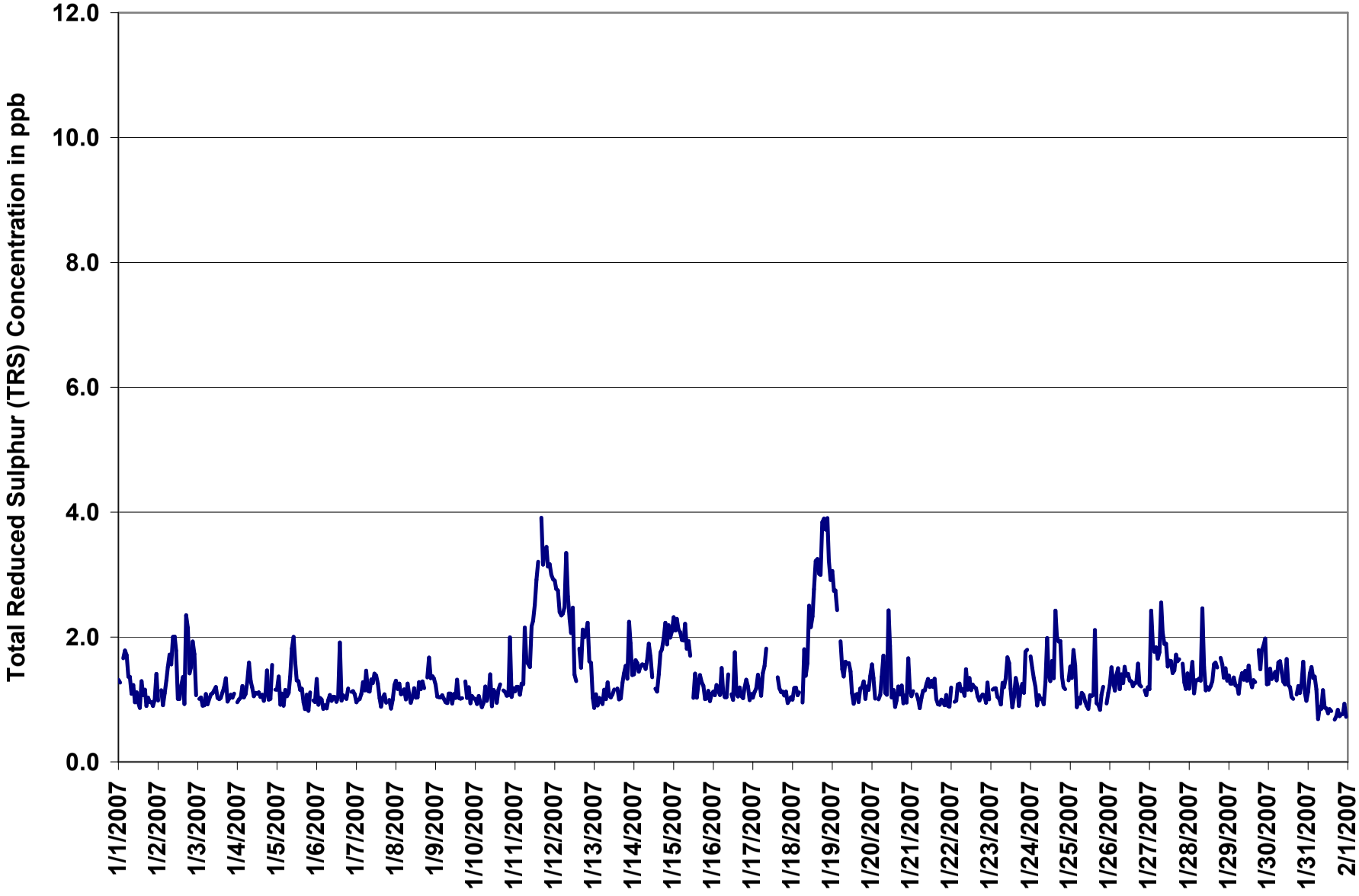
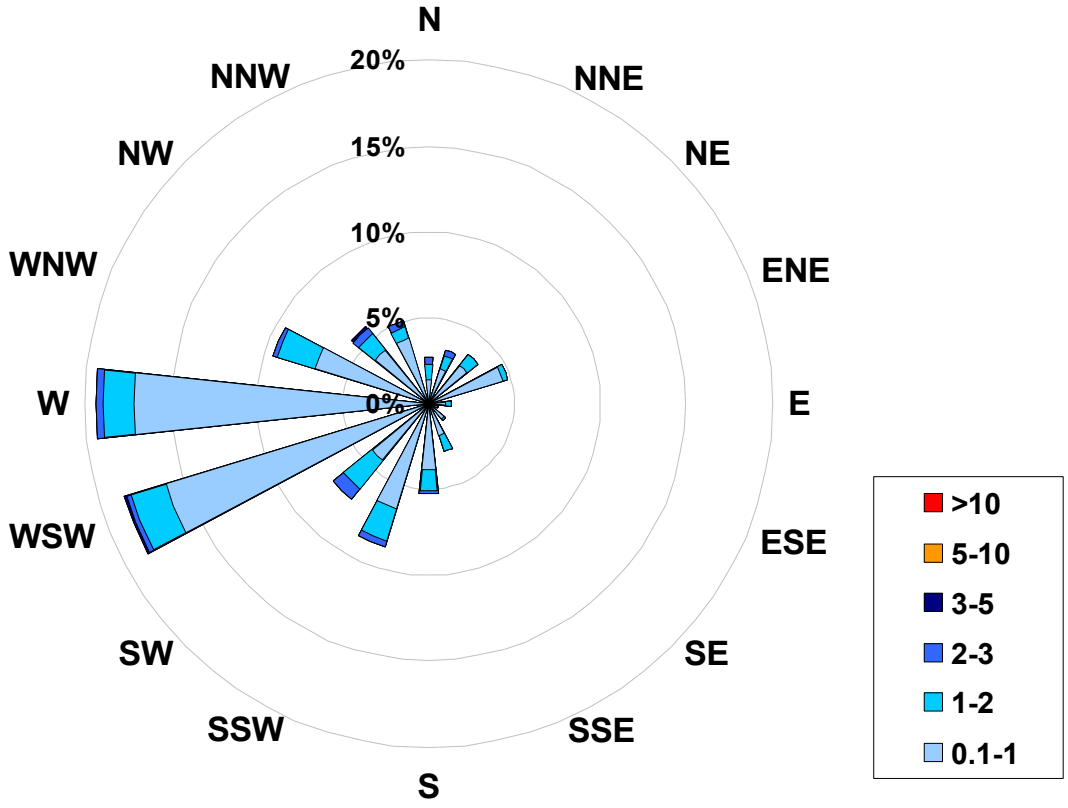


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	551
1	to	2	126
2	to	3	28
3	to	5	2
5	to	10	0
	>	10	0
Total Non-Zero Values			707

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

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

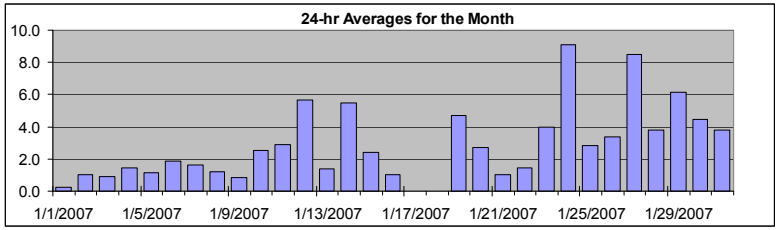
Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	34.5	µg/m³	31-Jan	3:00 4:00
Maximum 24-hr Value:	9.1	µg/m³	24-Jan	



AIC Time:	0 hrs	Operational Time:	722 hrs
Calibration Time:	10 hrs	AMD Operational Uptime:	98.4%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	24.5	11.2	4.3	2.1	0.4	0.0	0.0	3.4	2 µg/m˘	2.3 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.2	1.2
2-Jan-07	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	2	2	2	3	6	4	1	1.0	5.9
3-Jan-07	0	1	1	1	1	0	0	0	0	2	0	0	1	1	1	3	2	2	1	0	0	1	2	1	0.9	2.7
4-Jan-07	1	1	2	2	1	2	2	4	4	5	0	0	0	0	0	2	1	2	2	1	1	1	1	1	1.4	4.9
5-Jan-07	0	1	1	0	0	0	0	0	0	0	0	0	1	7	8	3	0	0	0	0	1	1	1	4	1.2	7.8
6-Jan-07	6	3	3	3	2	2	2	1	2	2	2	2	1	1	1	2	3	2	1	1	0	0	0	1	1.8	6.1
7-Jan-07	0	0	D	0	0	0	0	0	0	0	0	1	3	3	2	2	2	2	1	1	3	3	4	10	1.6	10.4
8-Jan-07	5	3	3	1	0	0	0	0	1	0	0	0	0	0	2	2	3	3	1	2	1	1	0	0	1.2	4.7
9-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3	3	3	4	4	0.8	3.8
10-Jan-07	4	4	4	4	4	3	3	3	3	4	4	3	2	2	2	3	2	2	1	1	1	1	1	0	2.5	4.0
11-Jan-07	1	1	1	1	2	1	3	0	2	2	9	11	7	3	3	2	0	1	2	2	2	4	4	5	2.9	10.7
12-Jan-07	6	6	6	6	4	7	7	8	7	6	8	11	4	3	0	2	1	5	6	6	10	5	9	4	5.7	11.0
13-Jan-07	2	1	1	1	1	2	1	1	0	1	1	1	0	0	0	0	0	0	1	2	3	5	5	3	1.4	5.0
14-Jan-07	3	3	4	4	3	3	2	3	4	5	6	6	7	5	3	11	11	7	7	7	7	6	6	7	5.5	11.1
15-Jan-07	6	6	6	5	5	4	2	2	2	5	6	4	0	0	0	1	2	2	1	0	0	0	0	0	2.4	6.0
16-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	3	4	4	1.0	4.3
17-Jan-07	4	3	2	2	3	3	4	3	6	6	4	3	D	C	C	C	C	C	C	C	C	C	C	D	N	6.1
18-Jan-07	D	D	D	D	D	D	D	D	D	0	5	10	12	26	27	30	27	25	26	26	21	19	21	17	N	29.8
19-Jan-07	15	13	11	11	8	6	4	5	6	8	11	6	0	0	0	0	0	0	0	0	0	1	3	4	4.7	15.0
20-Jan-07	4	3	2	2	1	2	2	2	2	2	10	9	4	1	3	1	3	5	5	1	0	0	1	0	2.7	10.5
21-Jan-07	0	0	0	0	0	0	0	1	3	1	4	1	3	3	3	3	0	0	1	0	0	0	0	1	1.0	3.5
22-Jan-07	1	2	0	0	1	1	2	2	1	2	5	3	2	1	0	1	2	1	2	3	0	0	1	0	1.4	4.9
23-Jan-07	0	0	0	0	0	0	1	1	3	2	8	7	4	5	1	3	7	2	4	2	4	10	16	14	4.0	16.1
24-Jan-07	12	9	7	6	4	3	3	3	3	6	11	14	8	9	9	20	19	18	17	11	8	8	6	3	9.1	20.3
25-Jan-07	4	5	8	4	0	3	3	5	0	3	2	2	1	1	0	1	1	3	2	3	3	4	4	4	2.8	7.8
26-Jan-07	3	4	4	4	1	1	0	1	2	4	5	4	3	3	2	3	6	6	5	8	6	3	1	2	3.4	8.4
27-Jan-07	3	5	5	4	4	5	7	5	7	13	14	4	21	11	13	9	12	19	20	9	4	4	3	2	8.5	21.5
28-Jan-07	0	1	2	1	1	1	1	2	4	5	2	2	1	3	4	7	7	6	12	9	6	4	5	4	3.8	12.2
29-Jan-07	3	1	1	0	3	1	4	4	7	7	7	8	5	5	4	6	5	10	14	8	11	18	11	4	6.2	18.2
30-Jan-07	5	7	2	2	1	1	4	5	6	1	2	4	3	3	3	3	6	6	6	2	4	17	9	5	4.5	16.6
31-Jan-07	11	11	11	35	11	3	1	3	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3.8	34.5
Hourly Avg	3.3	3.1	3.0	3.3	2.1	1.8	2.0	2.2	2.5	3.1	4.1	3.8	3.1	3.2	3.3	4.1	4.2	4.4	4.8	3.8	3.4	4.2	4.3	3.5		
Hourly Max	15.0	13.3	10.8	34.5	10.9	6.7	6.9	8.1	7.2	13.1	14.0	14.0	21.5	25.8	27.4	29.8	26.5	25.3	26.2	25.6	20.9	19.4	21.0	17.2		

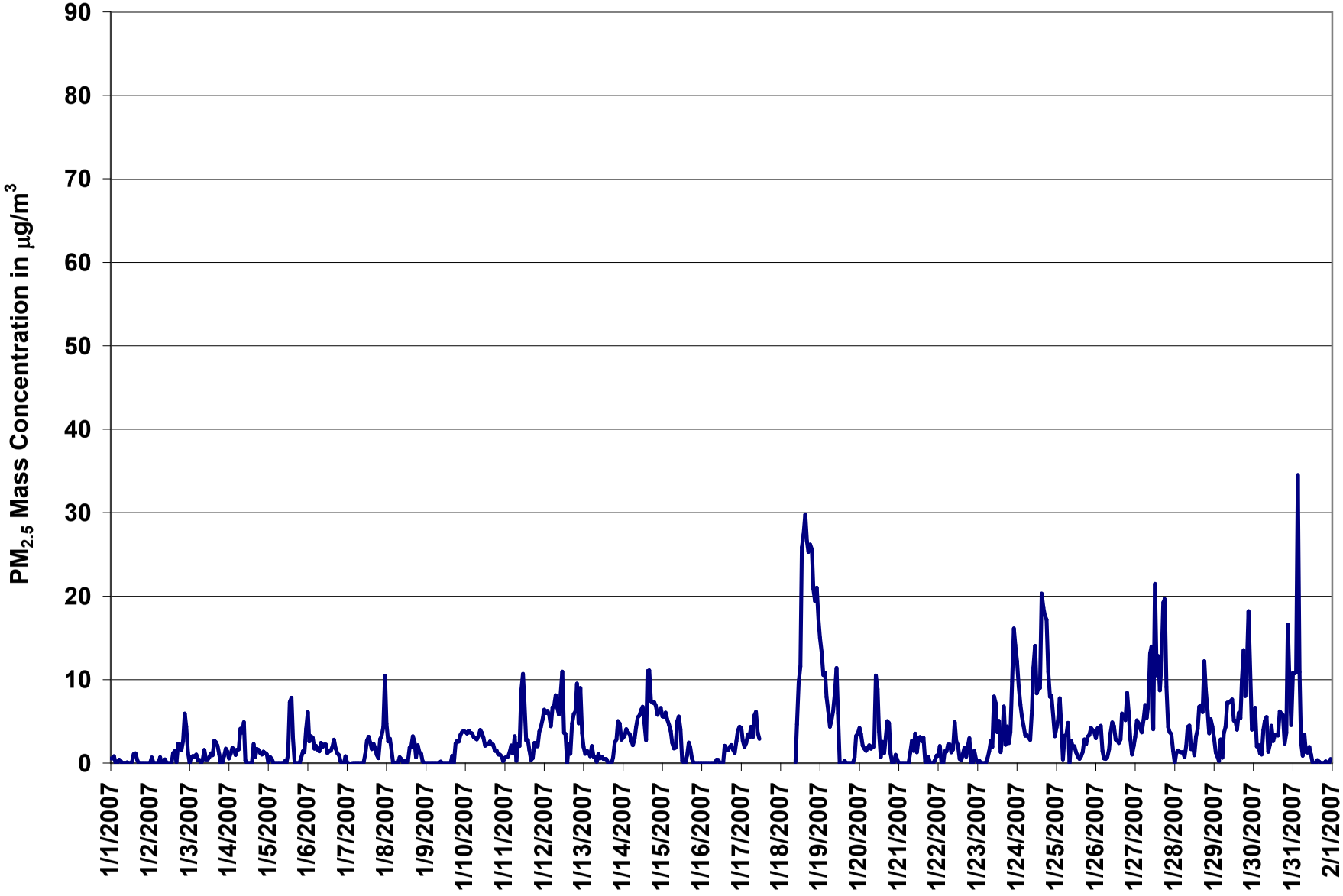


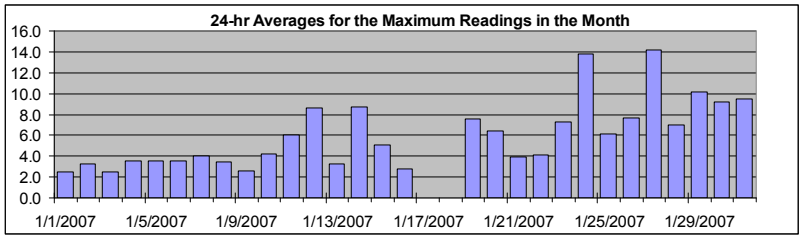
Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	60.3	µg/m³	31-Jan	3:00 4:00
Maximum 24-hr Value:	14.1	µg/m³	27-Jan	

AIC Time:	0 hrs	Operational Time:	722 hrs
Calibration Time:	10 hrs	AMD Operational Uptime:	98.4%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	31.1	19.0	7.9	4.6	2.7	1.0	0.0	6.4	5 µg/m˘	5.3 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	3	2	3	4	4	4	3	2	5	2	2	1	3	3	3	4	3	1	2	0	1	1	2	2	2.5	5.4
2-Jan-07	0	2	2	1	1	2	5	3	3	4	2	2	0	2	4	5	3	4	4	4	4	8	9	5	3.2	8.6
3-Jan-07	1	3	2	2	3	2	2	1	3	3	1	2	3	2	3	4	4	4	3	1	1	3	3	3	2.5	4.3
4-Jan-07	2	3	3	4	3	3	4	6	6	8	4	1	1	2	2	6	3	4	4	5	2	5	2	2	3.5	7.6
5-Jan-07	1	2	3	1	2	0	0	0	0	1	2	1	12	15	14	7	1	2	1	1	3	4	4	8	3.5	14.9
6-Jan-07	10	4	4	5	3	3	3	3	4	3	4	3	3	3	5	3	4	3	2	2	1	1	3	3	3.5	10.0
7-Jan-07	1	1	D	1	1	5	2	2	0	1	3	3	5	7	5	3	4	3	2	2	6	6	10	21	4.0	20.9
8-Jan-07	8	5	4	5	1	2	1	3	2	2	2	2	1	2	4	6	7	5	3	5	5	4	2	1	3.4	8.2
9-Jan-07	2	1	2	1	3	1	1	1	1	2	2	2	2	0	0	2	4	7	5	5	4	5	6	5	2.6	6.6
10-Jan-07	5	5	6	6	5	5	4	5	5	6	5	5	4	4	4	4	4	3	3	3	2	3	4	2	4.2	6.0
11-Jan-07	3	3	4	4	4	3	8	2	4	5	15	15	17	6	5	3	2	2	6	4	3	10	7	9	6.1	16.6
12-Jan-07	8	8	8	8	7	9	9	12	11	10	10	16	9	8	1	4	5	7	8	9	13	8	13	7	8.7	16.5
13-Jan-07	3	3	3	3	2	3	2	2	2	3	2	3	3	3	3	2	1	3	3	5	6	7	8	5	3.3	7.9
14-Jan-07	5	5	6	6	6	4	4	6	7	8	10	11	10	9	8	18	19	11	10	9	10	8	9	9	8.7	18.7
15-Jan-07	8	9	9	7	8	6	5	4	3	10	12	7	2	1	1	3	4	4	2	3	1	1	5	5	5.1	12.0
16-Jan-07	1	2	3	3	1	0	1	1	1	4	2	1	1	2	5	4	4	5	5	4	2	4	5	6	2.8	5.6
17-Jan-07	6	5	3	4	4	4	6	5	9	11	6	6	D	C	C	C	C	C	C	C	C	C	C	D	N	10.6
18-Jan-07	D	D	D	D	D	D	D	D	D	4	15	13	22	31	31	35	33	30	32	35	25	24	25	20	N	35.4
19-Jan-07	18	16	13	14	10	11	7	9	11	11	17	12	1	1	0	3	2	2	2	2	1	3	7	7	7.6	17.7
20-Jan-07	8	7	4	5	4	5	6	5	5	5	19	17	6	3	6	6	7	8	9	4	1	4	4	5	6.4	18.7
21-Jan-07	2	3	3	2	2	3	3	6	6	6	6	5	6	5	5	7	3	3	7	3	2	1	3	3	3.9	6.8
22-Jan-07	3	5	2	3	6	5	4	5	4	8	8	5	6	3	3	4	4	2	4	6	2	4	3	2	4.1	7.9
23-Jan-07	1	2	1	2	2	2	3	3	5	6	12	13	9	7	4	9	9	6	7	5	9	18	19	19	7.3	19.3
24-Jan-07	15	12	9	8	7	7	7	5	7	11	25	26	11	13	20	24	24	22	22	19	11	12	8	6	13.8	25.6
25-Jan-07	8	9	11	9	3	9	8	10	4	6	5	4	4	3	2	3	3	5	5	6	6	9	7	8	6.1	10.9
26-Jan-07	6	7	7	7	4	3	3	4	5	9	8	8	7	6	7	7	10	17	14	14	10	8	6	5	7.7	16.8
27-Jan-07	7	10	10	7	9	10	10	11	10	20	22	8	49	14	23	12	21	24	24	16	9	6	6	4	14.1	49.2
28-Jan-07	1	4	4	4	3	4	5	5	11	8	8	5	3	6	8	9	10	9	17	11	9	7	9	8	7.0	16.8
29-Jan-07	5	4	4	4	6	6	7	7	10	9	10	12	10	7	5	8	7	15	18	16	20	24	22	6	10.1	24.2
30-Jan-07	7	11	7	5	4	4	12	10	9	4	6	8	7	6	7	5	13	15	23	5	8	23	14	8	9.2	22.9
31-Jan-07	16	15	19	60	50	9	5	10	4	3	5	3	2	2	1	3	3	2	2	1	3	2	3	4	9.5	60.3
Hourly Avg	5.5	5.5	5.5	6.5	5.6	4.5	4.8	4.8	5.3	6.2	8.1	7.2	7.2	5.9	6.3	7.1	7.4	7.6	8.3	6.8	6.0	7.4	7.7	6.6		
Hourly Max	17.7	15.7	19.2	60.3	49.6	10.5	12.5	12.1	11.4	19.9	25.2	25.6	49.2	31.2	30.8	35.1	32.8	29.7	32.0	35.4	25.0	24.3	25.3	20.9		

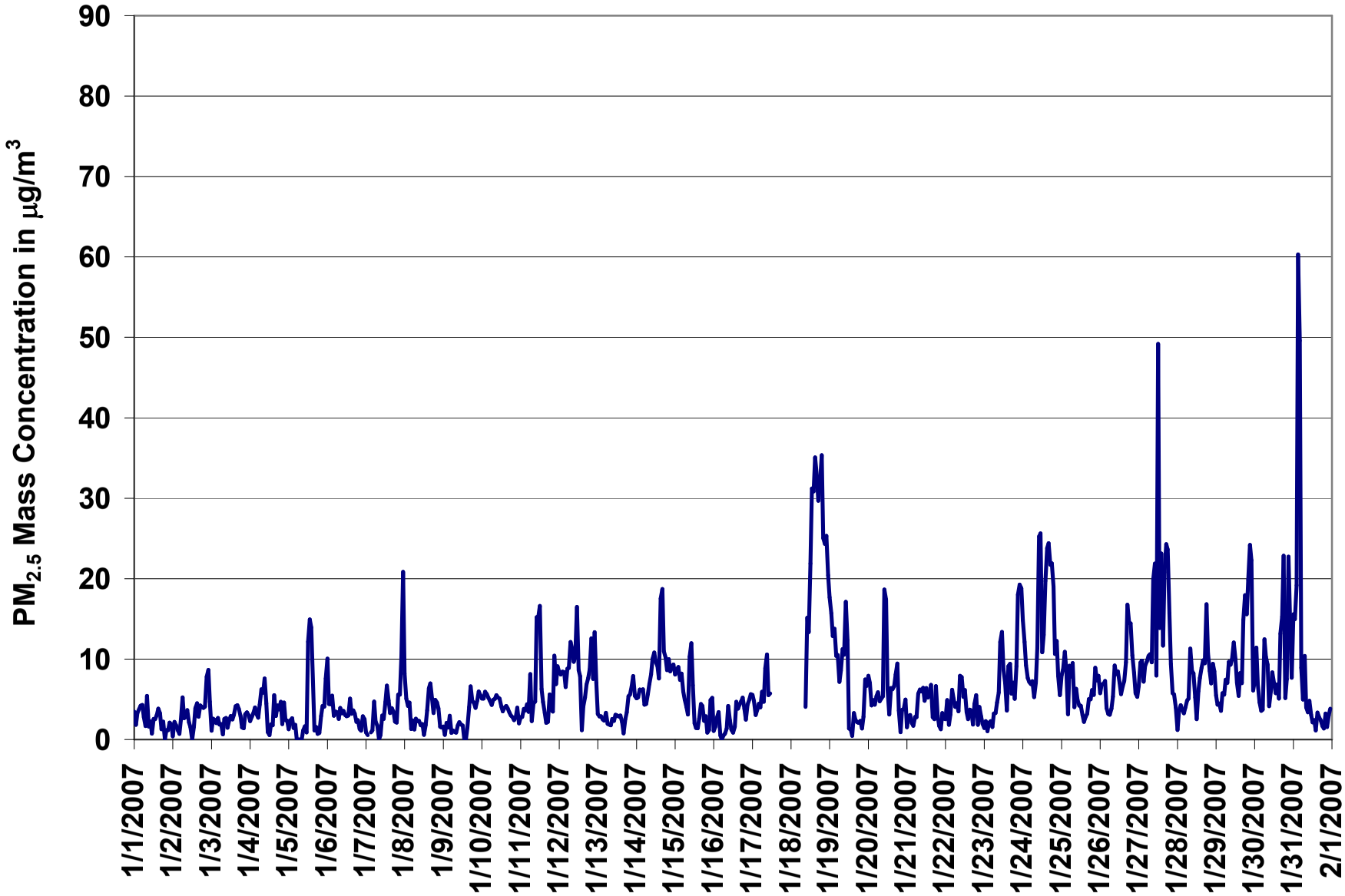
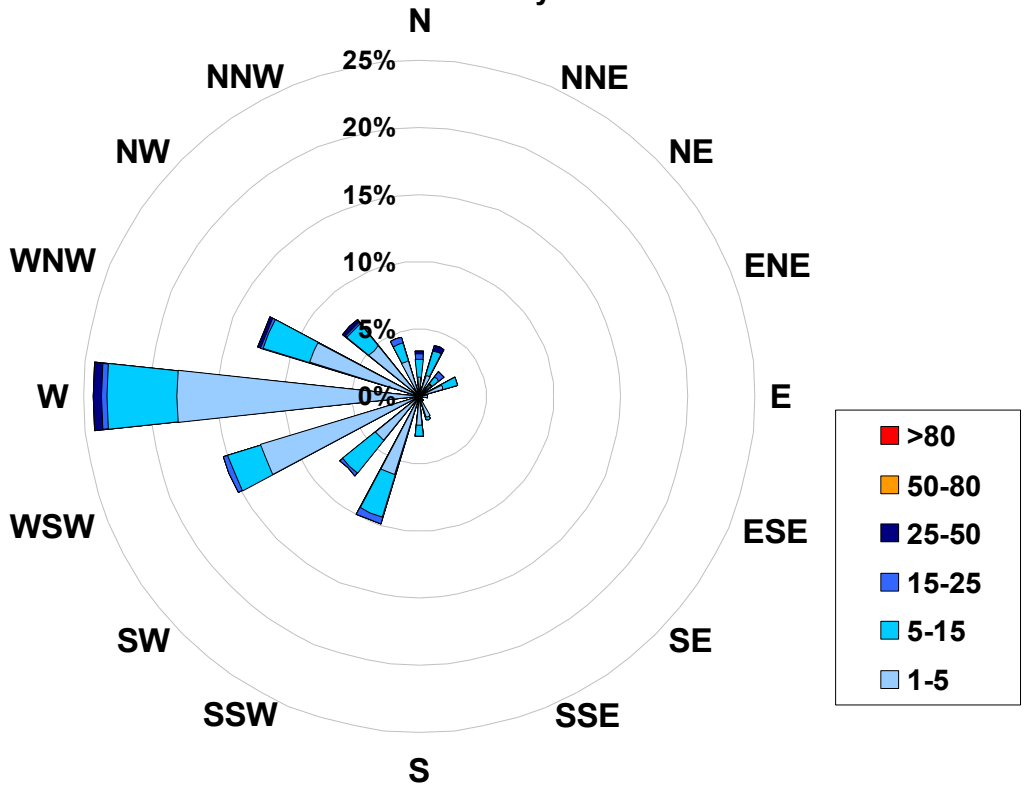


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 January 2007



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	569
5	to	15	130
15	to	25	15
25	to	50	8
50	to	80	0
	>	80	0
Total Non-Zero Values			722

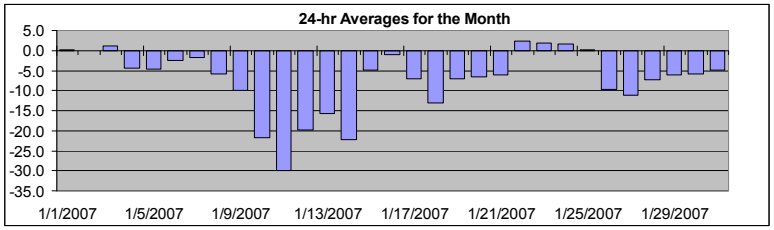
PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	10.2	°C	24-Jan	14:00 15:00
Maximum 24-hr Value:	2.5	°C	22-Jan	

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
	6.5	4.4	-0.8	-5.2	-11.6	-26.2	-32.8	-7.2 °C	-5.2 °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**

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-Jan-07	-9	-8	-6	-7	-7	-6	-5	-5	-5	-1	3	5	5	5	5	4	6	6	5	5	4	3	3	5	0.2	5.8
2-Jan-07	6	6	2	-1	-1	-3	-3	-4	-3	-3	-2	-1	0	1	1	1	1	1	0	-1	-1	-2	-1	3	-0.1	5.9
3-Jan-07	4	4	4	4	4	4	4	3	3	2	2	3	3	4	5	4	2	-1	-3	-5	-5	-5	-6	-7	1.2	4.8
4-Jan-07	-9	-9	-9	-9	-10	-9	-9	-8	-8	-5	-1	0	1	1	0	0	-1	-1	-2	-3	-3	-4	-4	-5	-4.4	0.7
5-Jan-07	-5	-5	-7	-10	-10	-9	-11	-9	-7	-6	-5	-4	-2	-1	1	2	0	-2	-2	-2	-3	-4	-4	-5	-4.7	1.5
6-Jan-07	-3	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-2	-1	-1	-1	-1	-2	-2	-3	-3	-3	-3	-5	-7	-2.5	-0.8
7-Jan-07	-9	-9	-6	-8	-8	-7	-4	-3	-3	-3	-3	-3	-2	-1	4	4	4	3	4	3	3	2	1	-3	-1.8	4.2
8-Jan-07	-3	-4	-5	-6	-7	-6	-6	-6	-6	-5	-5	-4	-3	-2	-2	-3	-4	-7	-9	-9	-9	-10	-10	-10	-5.9	-2.3
9-Jan-07	-10	-9	-9	-8	-7	-7	-7	-7	-7	-7	-6	-5	-5	-4	-4	-6	-6	-13	-17	-18	-19	-19	-20	-20	-9.9	-4.4
10-Jan-07	-20	-21	-21	-21	-21	-21	-21	-21	-21	-22	-22	-21	-21	-21	-21	-21	-21	-21	-22	-22	-23	-23	-24	-26	-21.7	-20.4
11-Jan-07	-29	-31	-32	-33	-34	-35	-35	-35	-36	-36	-33	-29	-26	-26	-24	-24	-24	-25	-27	-28	-29	-29	-28	-27	-29.9	-23.9
12-Jan-07	-28	-29	-30	-30	-30	-30	-29	-29	-28	-26	-23	-18	-12	-10	-10	-11	-12	-15	-15	-16	-14	-14	-10	-7	-19.9	-6.9
13-Jan-07	-7	-7	-8	-8	-8	-9	-12	-13	-15	-16	-16	-16	-15	-15	-15	-15	-17	-20	-22	-23	-25	-25	-25	-26	-15.7	-7.3
14-Jan-07	-27	-27	-28	-28	-28	-28	-28	-29	-28	-27	-24	-21	-19	-15	-14	-15	-16	-18	-19	-19	-20	-20	-19	-17	-22.2	-14.5
15-Jan-07	-17	-17	-14	-13	-12	-10	-8	-8	-7	-6	-6	-3	0	0	1	0	-1	-1	2	2	2	1	-2	-1	-4.9	2.0
16-Jan-07	-2	-5	-6	-1	-1	0	0	-1	-1	-1	0	0	1	2	2	1	1	0	-1	-2	-2	-2	-3	-3	-1.0	1.9
17-Jan-07	-4	-6	-7	-7	-8	-8	-8	-8	-8	-8	-6	-5	-4	-4	-3	-3	-5	-5	-6	-8	-9	-10	-14	-16	-7.0	-2.9
18-Jan-07	-16	-16	-14	-14	-16	-17	-18	-18	-18	-16	-15	-11	-7	-6	-5	-4	-5	-9	-11	-13	-15	-16	-16	-16	-13.0	-4.4
19-Jan-07	-16	-16	-14	-12	-11	-10	-9	-10	-12	-13	-9	-4	2	2	3	3	2	-2	-5	-6	-7	-8	-9	-10	-7.1	3.0
20-Jan-07	-10	-10	-9	-9	-10	-10	-10	-12	-12	-12	-10	-5	-2	0	1	0	-1	-4	-6	-3	-3	-7	-7	-9	-6.6	1.1
21-Jan-07	-12	-14	-15	-15	-15	-14	-14	-12	-11	-10	-8	-6	-3	-2	-1	0	2	3	2	2	1	-1	-1	-1	-6.0	2.6
22-Jan-07	0	0	0	-1	-1	-1	-1	-1	-1	-2	-1	1	4	7	7	8	7	6	5	3	5	5	5	5	2.5	7.6
23-Jan-07	5	5	5	4	3	3	0	-1	-3	-2	-1	2	4	6	6	6	4	2	0	-1	-1	0	0	0	2.0	6.2
24-Jan-07	0	0	0	0	0	0	0	-1	-1	-1	0	2	4	7	10	10	8	2	-1	-1	0	1	-1	-2	1.5	10.2
25-Jan-07	-2	-3	-4	0	5	4	4	4	4	2	3	3	3	3	2	1	0	-2	-3	-3	-4	-4	-4	-5	0.2	5.0
26-Jan-07	-7	-8	-10	-10	-9	-9	-8	-9	-9	-10	-9	-8	-6	-6	-5	-5	-5	-9	-12	-15	-16	-17	-18	-18	-9.8	-4.6
27-Jan-07	-18	-18	-18	-18	-19	-18	-19	-19	-19	-19	-14	-11	-9	-7	-6	-3	-5	-6	-7	-5	-3	-1	-1	-1	-11.1	-0.8
28-Jan-07	-1	-2	-4	-5	-6	-7	-12	-12	-14	-12	-7	-4	-3	-3	-3	-3	-4	-6	-8	-9	-10	-12	-12	-11	-7.3	-0.8
29-Jan-07	-10	-9	-8	-9	-9	-7	-7	-7	-7	-7	-6	-4	-2	-1	0	0	0	-3	-5	-7	-9	-10	-10	-11	-6.1	0.3
30-Jan-07	-12	-5	-5	-5	-6	-10	-12	-10	-6	-4	-3	-2	-1	-1	-1	0	-1	-2	-4	-5	-9	-11	-12	-13	-5.9	-0.4
31-Jan-07	-14	-15	-15	-15	-13	-10	-6	-3	-1	-1	-2	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-3	-3	-3	-4.9	-0.7
Hourly Avg	-9.2	-9.3	-9.5	-9.6	-9.6	-9.5	-9.6	-9.6	-9.4	-9.0	-7.5	-5.5	-3.9	-2.8	-2.2	-2.3	-3.0	-4.9	-6.2	-6.9	-7.4	-7.9	-8.4	-8.7		
Hourly Max	5.9	5.9	4.6	4.5	5.0	4.2	4.1	3.5	3.5	2.4	3.3	4.7	4.7	7.3	10.2	9.9	7.5	6.4	5.5	5.3	4.8	5.1	4.8	4.8		

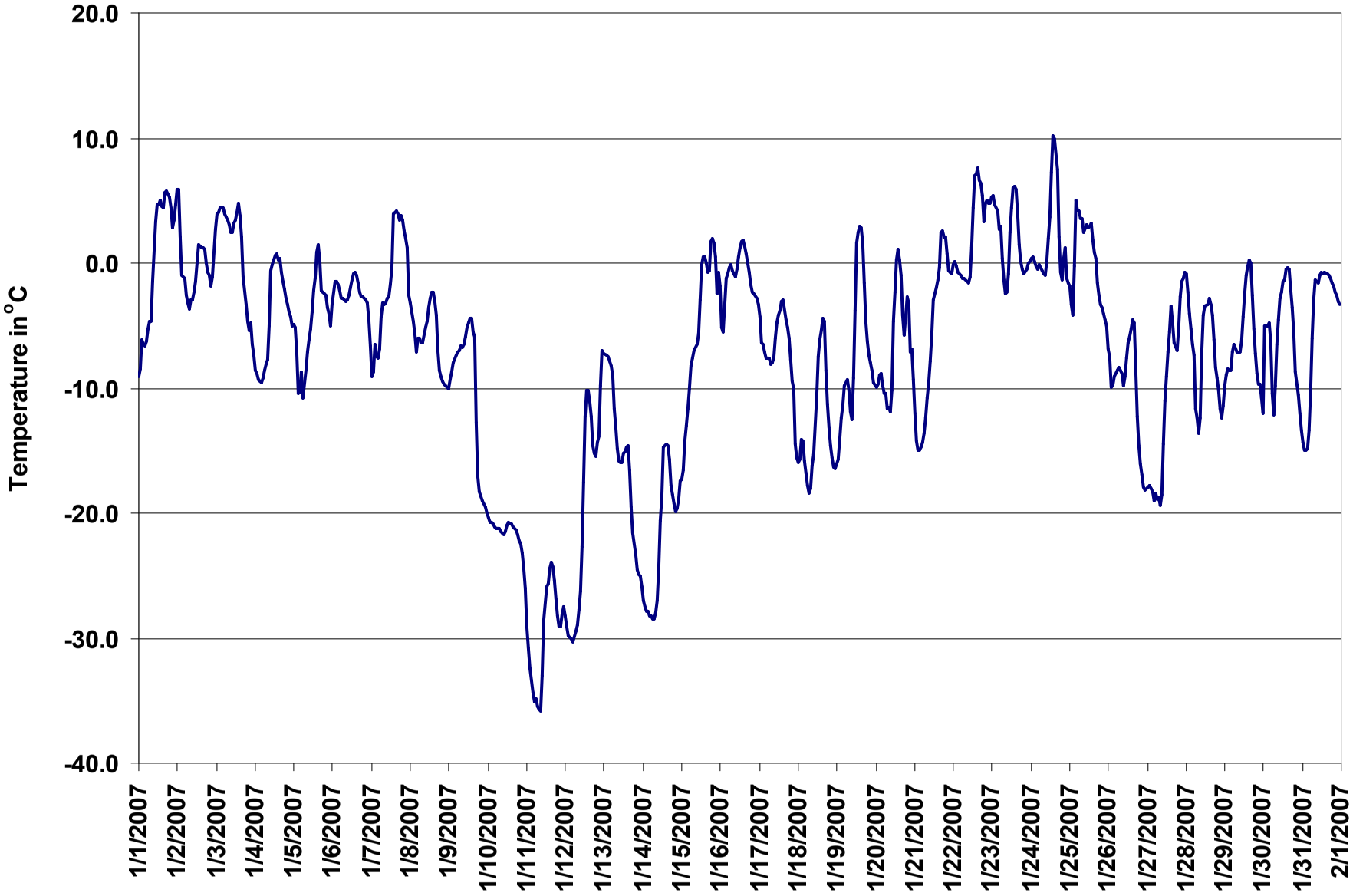


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

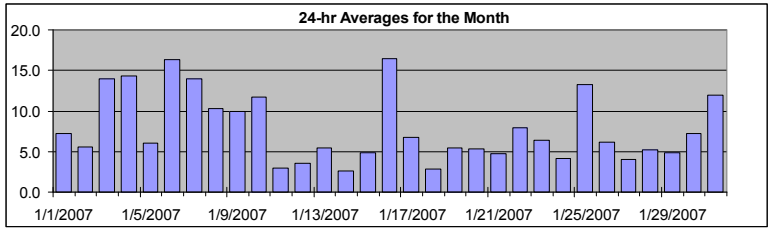
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	36.6	km/hr	7-Jan	19:00 20:00
Maximum 24-hr Value:	16.5	km/hr	16-Jan	

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
	27.3	21.0	10.2	5.1	3.3	2.3	1.9	7.8 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**

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-hr Scalar Average	Daily Max
1-Jan-07	3	4	5	4	5	5	4	3	4	7	8	8	8	7	5	8	14	18	12	11	7	5	9	11	7.3	18.5
2-Jan-07	21	14	3	4	6	4	4	5	4	4	3	5	5	5	6	4	5	4	3	2	1	1	2	16	5.6	21.4
3-Jan-07	22	22	28	31	31	27	25	26	24	18	13	7	5	7	6	9	5	5	3	5	4	5	6	3	14.0	31.1
4-Jan-07	3	4	4	5	3	4	3	4	7	10	17	18	21	21	23	26	26	28	25	20	21	19	17	14	14.3	27.5
5-Jan-07	18	15	7	3	7	5	5	6	4	5	6	6	4	3	5	8	9	5	5	4	5	4	4	4	6.0	17.8
6-Jan-07	7	12	13	16	16	16	17	18	18	18	20	18	23	21	21	24	23	20	15	16	14	12	10	5	16.3	23.6
7-Jan-07	3	4	4	4	4	4	6	6	7	5	4	3	3	9	25	21	23	20	24	37	34	33	31	20	13.9	36.6
8-Jan-07	20	16	13	9	8	15	14	14	16	18	18	20	19	13	8	5	4	3	4	3	2	2	2	3	10.3	20.2
9-Jan-07	5	5	4	4	5	6	6	6	6	5	6	6	6	7	7	8	10	23	21	20	19	18	18	17	9.9	22.8
10-Jan-07	19	19	18	17	17	15	14	14	12	11	13	12	11	11	11	10	9	8	7	8	8	9	6	4	11.7	19.4
11-Jan-07	2	2	2	2	2	3	3	3	2	2	3	4	4	5	6	5	4	2	3	3	2	3	2	2	2.9	6.2
12-Jan-07	4	3	2	3	2	3	4	2	3	2	3	4	4	2	5	4	3	2	2	2	4	4	8	9	3.5	8.6
13-Jan-07	7	5	4	4	9	7	9	8	7	6	8	8	7	7	7	5	5	4	2	2	2	3	3	3	5.5	8.9
14-Jan-07	2	2	2	2	3	2	2	3	3	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3	2.6	3.3
15-Jan-07	3	3	3	3	4	4	4	3	4	2	4	6	6	3	4	4	6	7	10	8	8	4	5	7	4.8	9.9
16-Jan-07	9	4	6	10	8	17	22	21	21	18	18	20	20	19	17	24	22	22	19	15	16	17	16	14	16.5	24.3
17-Jan-07	9	6	7	4	5	4	4	3	4	4	5	9	12	11	7	6	10	11	11	8	9	9	3	3	6.8	11.8
18-Jan-07	2	3	3	3	3	3	3	3	3	3	4	3	3	2	3	3	3	3	2	3	3	2	2	2	2.8	3.8
19-Jan-07	2	2	3	3	4	5	4	6	4	5	5	7	15	13	12	8	11	5	3	3	3	3	3	3	5.5	14.8
20-Jan-07	4	5	3	4	3	3	4	4	5	4	4	4	5	11	8	8	5	4	6	12	8	4	6	4	5.3	12.0
21-Jan-07	3	3	3	3	3	2	2	3	3	4	3	3	4	4	6	10	13	11	8	8	3	3	4	5	4.8	12.7
22-Jan-07	5	3	3	3	4	4	3	4	4	4	3	4	6	9	10	11	14	21	10	5	13	16	14	18	7.9	21.1
23-Jan-07	20	20	17	12	5	10	4	4	4	3	4	5	6	6	5	3	3	2	3	3	3	3	4	4	6.4	20.1
24-Jan-07	3	3	3	3	3	4	3	3	3	4	5	4	4	4	5	3	4	3	5	5	9	6	4	6	4.1	8.6
25-Jan-07	4	5	4	10	11	17	13	14	20	17	22	20	22	21	14	17	14	10	11	12	11	10	11	10	13.3	22.3
26-Jan-07	7	6	3	9	9	8	9	7	8	6	7	8	8	10	10	7	6	2	2	2	2	3	3	3	6.1	10.5
27-Jan-07	2	3	3	3	2	2	3	2	2	4	3	3	4	4	5	4	4	4	5	5	7	7	9	7	4.0	9.2
28-Jan-07	10	9	8	7	6	6	4	4	4	4	8	6	8	6	4	4	4	4	3	3	3	3	3	5	5.2	9.8
29-Jan-07	5	4	3	3	5	7	5	4	5	5	5	7	8	8	7	7	5	3	3	3	3	4	5	2	4.9	7.9
30-Jan-07	3	8	8	8	6	3	4	5	10	11	9	11	10	12	11	11	10	8	8	5	3	3	2	2	7.2	12.1
31-Jan-07	2	2	3	4	4	8	15	15	19	20	12	11	12	15	16	18	13	13	12	11	13	15	17	17	12.0	19.9
1-hr Average	7.4	6.9	6.2	6.4	6.5	7.2	7.2	7.1	7.7	7.5	7.9	8.1	8.8	9.0	9.1	9.2	9.4	9.0	8.1	8.0	7.8	7.5	7.5	7.3		
Hourly Max	21.5	22.4	27.8	31.1	31.1	27.1	25.4	25.6	24.2	19.9	22.3	20.3	22.6	21.3	24.9	25.8	26.4	27.5	25.5	36.6	34.3	33.2	31.2	19.5		

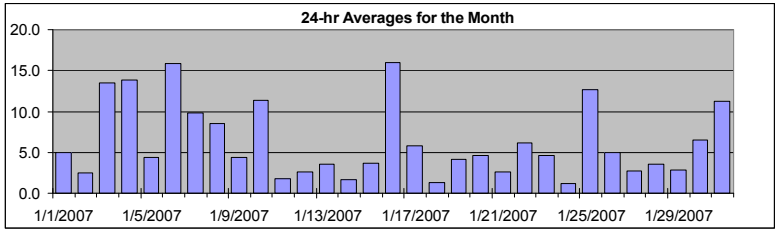
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	35.6	km/hr	7-Jan	19:00 20:00
Maximum 24-hr Value:	16.0	km/hr	16-Jan	

Calm Time:	26 hrs	**3%** calms	Operational Time: 718 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageV
	27.3	20.8	10.3	4.8	2.4	1.2	0.9	27.7 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**

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-hr Vector Average	Daily Max
1-Jan-07	1	3	4	2	4	4	1	2	2	7	8	8	8	7	4	7	14	18	11	10	6	4	7	11	5.0	18.4
2-Jan-07	21	14	1	2	5	3	4	4	4	3	2	5	5	3	5	calm	4	3	1	1	calm	1	2	16	2.5	21.2
3-Jan-07	21	22	28	31	31	27	25	26	24	18	13	6	5	6	6	9	5	5	2	4	2	4	5	2	13.5	31.0
4-Jan-07	2	4	4	4	2	2	3	3	7	9	17	18	21	21	22	26	26	27	25	20	21	18	17	14	13.8	27.3
5-Jan-07	18	14	7	2	5	4	5	6	4	5	5	6	2	2	5	8	9	5	5	4	5	3	2	2	4.4	17.7
6-Jan-07	7	11	13	16	16	16	17	18	18	18	20	18	22	21	21	24	23	20	15	16	14	11	10	4	15.9	23.5
7-Jan-07	3	3	4	3	3	3	6	6	6	4	2	2	2	8	25	21	23	20	24	36	34	33	31	19	9.8	35.6
8-Jan-07	20	15	12	9	8	15	14	14	16	18	18	19	19	13	7	5	2	1	2	2	calm	1	2	2	8.6	19.8
9-Jan-07	5	3	4	4	5	6	6	6	5	4	5	6	5	7	7	8	9	22	21	20	19	18	18	17	4.4	22.3
10-Jan-07	19	18	17	17	17	15	14	13	12	11	13	12	10	10	10	9	9	8	7	8	8	9	6	4	11.4	19.2
11-Jan-07	calm	1	1	1	2	3	1	2	calm	calm	2	3	3	4	6	4	4	calm	1	1	calm	1	calm	1	1.8	6.1
12-Jan-07	3	2	2	1	1	2	1	2	2	1	2	4	3	1	5	3	2	calm	1	2	4	3	8	8	2.6	8.5
13-Jan-07	7	5	4	4	8	6	9	8	7	6	8	8	7	7	7	5	4	3	2	2	2	2	3	2	3.5	8.7
14-Jan-07	1	2	1	1	2	2	1	2	3	3	2	3	2	2	3	3	3	3	2	2	1	2	2	1	1.7	3.1
15-Jan-07	calm	1	2	1	calm	3	3	3	4	1	3	6	6	3	4	3	6	6	10	8	8	4	4	7	3.7	9.8
16-Jan-07	9	1	5	10	8	17	22	21	21	18	18	20	20	18	16	24	22	22	19	15	16	17	16	14	16.0	24.2
17-Jan-07	7	6	6	4	4	4	3	2	4	4	5	9	12	11	5	6	10	11	11	8	9	9	3	2	5.8	11.8
18-Jan-07	2	2	calm	1	3	1	3	2	2	2	1	2	2	2	2	1	2	2	2	2	2	1	2	2	1.3	2.7
19-Jan-07	2	1	1	3	3	5	3	6	2	4	4	5	15	13	11	7	10	4	calm	1	calm	3	1	2	4.2	14.6
20-Jan-07	2	5	3	3	3	1	4	3	5	3	2	3	4	11	8	8	5	4	6	12	8	2	6	4	4.6	12.0
21-Jan-07	1	calm	1	2	1	1	1	2	1	2	2	1	3	4	6	10	13	11	8	8	2	1	2	5	2.6	12.6
22-Jan-07	3	3	1	calm	4	2	2	1	3	2	2	2	3	8	10	11	13	21	9	5	13	15	14	18	6.2	20.8
23-Jan-07	20	20	17	12	5	10	calm	4	3	1	3	4	5	6	5	2	calm	2	2	3	2	2	4	3	4.6	20.0
24-Jan-07	calm	2	3	1	1	2	1	1	2	2	4	1	calm	3	4	2	1	1	5	5	9	5	3	6	1.2	8.6
25-Jan-07	3	2	2	9	10	16	13	13	20	16	22	20	21	21	14	17	14	10	11	12	11	10	11	9	12.7	22.2
26-Jan-07	6	5	3	9	8	8	9	7	8	6	7	8	8	10	9	7	6	1	1	calm	1	3	3	3	4.9	10.3
27-Jan-07	2	2	calm	2	1	2	2	1	2	4	2	2	3	3	4	3	3	2	1	4	6	6	9	7	2.7	8.9
28-Jan-07	10	9	8	7	6	6	3	4	4	4	8	6	8	6	3	3	3	3	2	2	3	calm	3	5	3.6	9.6
29-Jan-07	5	4	2	1	3	calm	3	3	5	3	5	7	8	7	7	7	5	2	2	1	1	3	4	2	2.9	7.8
30-Jan-07	2	8	8	8	5	calm	3	5	9	11	9	10	10	12	11	11	10	8	8	4	2	3	1	2	6.5	12.0
31-Jan-07	2	1	2	3	4	8	15	14	18	20	11	11	12	14	16	18	13	13	12	11	13	15	17	16	11.2	19.8
1-hr Vector	4.9	4.6	3.9	4.3	3.8	4.6	4.2	4.3	4.0	4.6	5.3	5.4	6.3	6.8	6.8	7.0	6.6	7.0	6.4	5.5	5.5	5.5	4.9	4.5		
Hourly Max	21.4	22.2	27.6	31.0	31.0	27.0	25.3	25.5	24.1	19.8	22.2	20.2	22.5	21.2	24.7	25.5	26.1	27.3	25.4	35.6	34.1	33.1	30.9	18.9		

PASZA - Evergreen Park - Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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	
	354.7	329.9	276.1	248.8	192.5	35.7	10.9	263 deg	

Status Flag Characters

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

Day **Mountain Standard Time**

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	WD Sector
1-Jan-07	95	188	172	85	159	80	65	49	127	177	183	180	197	214	244	232	238	240	236	215	189	180	234	253	207	SSW
2-Jan-07	235	244	358	152	198	177	178	169	192	185	159	56	55	110	82	90	73	199	159	10	322	214	218	231	197	SSW
3-Jan-07	242	251	261	261	262	260	258	257	257	257	255	288	251	264	264	258	273	232	263	198	189	206	189	250	255	WSW
4-Jan-07	205	203	213	199	251	195	196	224	193	225	243	242	249	253	255	261	250	251	250	243	245	242	245	237	244	WSW
5-Jan-07	247	243	223	195	233	200	168	171	162	169	172	179	164	245	264	253	232	193	183	166	192	22	60	294	214	SW
6-Jan-07	241	258	269	273	272	265	260	259	254	252	249	261	263	266	262	258	258	259	256	253	249	242	208	185	257	WSW
7-Jan-07	178	170	169	74	68	183	121	128	139	156	166	73	18	245	258	262	260	256	254	224	210	262	262	310	242	WSW
8-Jan-07	312	304	298	265	247	242	245	250	244	240	246	247	245	249	268	287	261	134	166	207	175	152	133	132	255	WSW
9-Jan-07	58	58	74	67	92	79	72	75	62	65	61	67	57	46	38	19	18	314	295	287	279	280	274	272	331	NNW
10-Jan-07	267	267	273	271	272	275	283	282	281	269	261	269	290	295	303	284	283	292	276	258	253	246	249	247	274	W
11-Jan-07	179	356	118	302	213	208	254	34	165	290	300	253	239	301	264	299	313	246	207	220	195	231	226	321	258	WSW
12-Jan-07	209	224	336	226	259	7	255	219	187	199	188	209	217	237	193	192	154	232	252	334	263	252	264	279	237	WSW
13-Jan-07	275	280	282	336	326	358	42	49	46	43	44	55	41	41	34	49	42	39	328	337	286	285	261	241	15	NNE
14-Jan-07	305	316	258	301	18	218	345	358	210	201	209	270	262	271	321	343	301	262	303	255	308	220	22	230	282	WNW
15-Jan-07	12	324	192	236	126	207	210	154	185	178	159	181	194	177	157	170	178	212	238	230	232	251	249	245	208	SSW
16-Jan-07	196	7	205	239	260	227	235	234	233	238	242	241	240	248	250	247	240	244	246	240	237	239	238	238	239	WSW
17-Jan-07	262	286	288	318	260	283	235	241	233	219	242	238	246	244	263	278	259	262	250	233	223	224	59	28	253	WSW
18-Jan-07	268	68	303	162	73	36	32	225	20	239	307	295	280	326	263	303	31	359	281	18	327	248	319	352	322	NW
19-Jan-07	282	341	8	268	20	281	220	223	246	244	289	287	273	274	287	301	281	296	142	68	26	278	249	209	278	W
20-Jan-07	242	209	183	235	249	262	235	221	206	237	301	261	217	256	268	272	263	268	273	258	252	1	297	263	255	WSW
21-Jan-07	236	127	19	211	275	276	237	339	65	63	31	165	210	271	258	255	253	237	258	260	199	246	171	60	248	WSW
22-Jan-07	112	148	86	326	211	210	250	222	67	198	330	340	272	288	264	264	270	267	268	259	248	255	255	255	259	W
23-Jan-07	262	261	259	258	261	256	156	242	209	234	199	194	206	198	190	170	194	1	254	43	5	270	222	54	244	WSW
24-Jan-07	23	30	76	64	94	40	17	317	39	205	214	211	66	194	219	342	48	264	196	178	183	192	194	187	175	S
25-Jan-07	210	281	283	251	271	269	276	284	275	277	282	277	282	284	314	323	311	288	285	277	275	269	274	290	282	WNW
26-Jan-07	323	306	327	349	324	318	326	316	307	279	268	275	286	270	269	267	276	207	354	302	340	40	60	28	303	WNW
27-Jan-07	338	284	210	248	44	231	301	342	297	229	319	275	262	353	246	293	2	357	37	21	320	344	340	310	319	NW
28-Jan-07	296	279	278	271	278	288	332	307	290	297	282	272	277	264	259	281	29	58	356	58	40	21	37	61	298	WNW
29-Jan-07	69	60	30	257	32	147	287	260	254	296	268	266	263	278	275	271	270	279	231	31	300	253	305	326	280	W
30-Jan-07	292	310	305	319	293	304	313	289	311	327	303	280	295	267	273	273	276	275	263	275	245	202	22	356	290	WNW
31-Jan-07	316	329	254	269	315	273	275	293	330	337	316	317	327	335	333	337	332	329	329	327	343	338	336	342	325	NW
Hourly Avg	259	268	267	266	270	257	260	261	258	254	259	258	262	267	270	275	269	265	260	252	247	258	263	271		

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

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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
	66.6	56.7	34.8	17.7	9.0	4.8	4.2

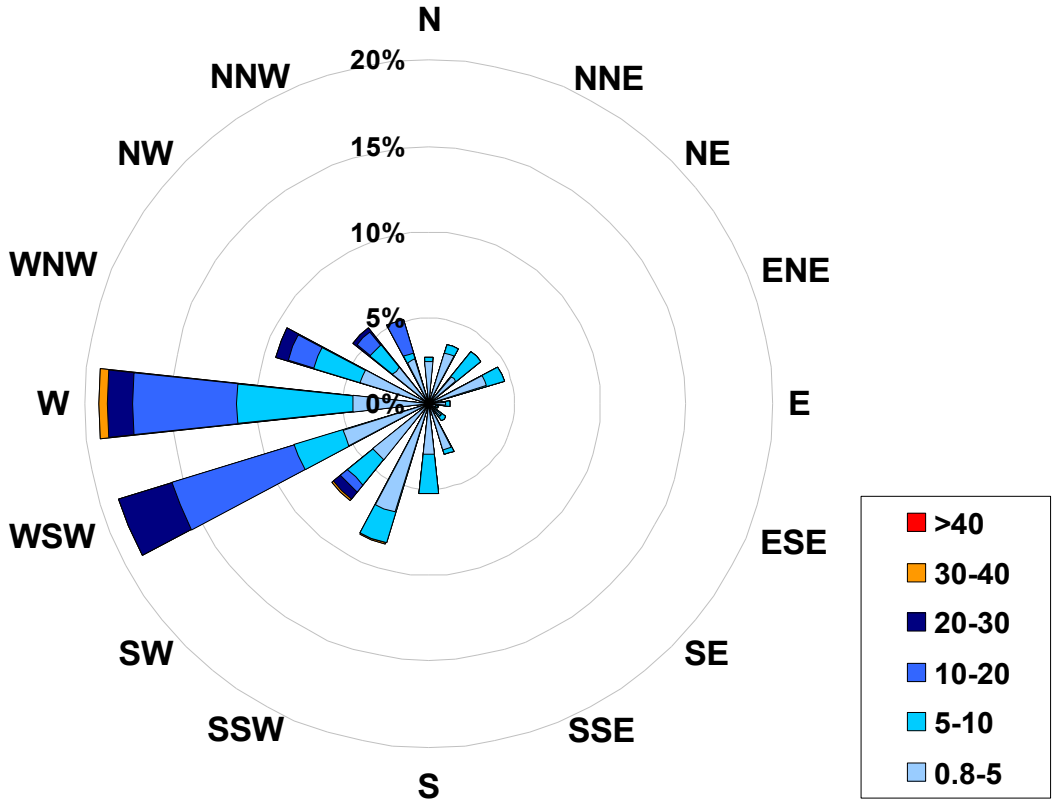
Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	39	59	30	51	35	44	33	39	27	7	7	7	7	6	18	16	5	4	11	10	22	55	31	8	59.1
2-Jan-07	6	7	33	64	24	54	40	46	27	33	38	16	9	43	36	66	53	45	61	55	50	13	16	5	65.7
3-Jan-07	5	6	5	5	5	4	5	4	5	5	6	20	21	13	8	5	11	17	44	25	68	39	39	50	68.3
4-Jan-07	52	19	19	17	38	47	32	22	6	8	5	5	5	5	6	5	7	6	5	7	6	6	5	5	51.5
5-Jan-07	10	5	17	41	59	40	13	17	35	16	19	9	44	29	18	9	9	21	9	14	26	24	26	37	59.5
6-Jan-07	18	10	6	6	7	5	5	4	5	4	5	6	6	8	6	6	5	4	5	15	5	5	5	36	36.3
7-Jan-07	38	29	22	21	20	51	24	25	24	34	55	60	43	32	6	6	5	5	6	8	6	19	6	11	59.6
8-Jan-07	12	12	14	9	6	4	4	3	4	39	22	6	6	11	11	17	30	63	64	54	61	59	43	46	64.3
9-Jan-07	19	58	15	18	15	11	11	11	11	10	12	15	13	12	12	9	11	10	12	12	11	11	11	9	57.7
10-Jan-07	17	7	9	9	9	11	11	13	12	11	7	13	14	13	14	15	14	14	14	12	8	7	10	41	40.5
11-Jan-07	42	38	56	33	22	18	29	26	43	50	32	22	23	18	9	22	18	49	56	39	38	24	37	50	56.3
12-Jan-07	34	25	22	41	46	50	31	33	27	51	40	7	18	45	11	24	47	66	45	16	17	21	11	12	66.0
13-Jan-07	13	13	13	13	9	18	13	17	13	14	12	16	16	14	11	16	11	17	20	13	19	16	16	18	19.6
14-Jan-07	30	27	29	31	54	38	30	34	20	14	34	28	26	32	18	14	21	23	30	34	39	49	38	67	66.9
15-Jan-07	53	56	45	55	28	41	23	34	9	52	33	16	20	51	34	62	11	18	13	11	6	35	26	11	61.9
16-Jan-07	24	40	23	7	15	6	5	5	4	8	7	6	6	6	7	5	4	4	5	5	4	4	4	4	39.8
17-Jan-07	17	17	19	23	27	15	11	21	15	11	7	5	7	5	31	10	5	5	3	5	5	5	36	48	48.3
18-Jan-07	33	40	47	35	33	57	19	47	31	42	56	26	21	32	18	29	50	32	32	53	36	42	27	16	56.8
19-Jan-07	22	42	41	21	37	20	39	28	49	23	31	28	11	7	12	19	11	25	48	41	25	32	48	35	49.1
20-Jan-07	26	6	28	28	22	57	12	11	11	31	33	27	16	10	7	6	8	10	8	4	12	31	9	10	56.7
21-Jan-07	21	52	57	47	49	64	62	50	68	51	22	54	46	26	12	5	6	9	12	7	37	53	28	7	67.6
22-Jan-07	35	26	55	62	16	36	42	39	38	57	19	36	65	15	11	10	7	6	16	31	6	6	5	5	65.2
23-Jan-07	5	4	4	4	20	4	40	24	23	53	22	35	16	13	14	45	73	24	44	15	60	54	19	47	72.8
24-Jan-07	78	38	34	63	57	58	66	61	40	49	47	69	56	44	37	69	65	78	27	14	5	7	24	11	77.9
25-Jan-07	47	37	39	23	13	6	14	10	8	12	6	6	8	9	14	12	9	8	6	7	5	7	8	12	46.6
26-Jan-07	20	20	30	9	14	9	8	19	12	12	10	14	18	11	7	12	9	52	47	48	65	27	41	28	65.1
27-Jan-07	26	27	57	56	42	35	36	50	32	9	20	36	23	20	27	26	22	35	49	32	14	20	13	15	57.4
28-Jan-07	15	10	7	7	8	12	23	19	15	15	9	11	10	7	21	23	24	21	23	57	30	56	29	11	56.8
29-Jan-07	23	15	35	37	42	52	40	29	8	22	16	10	9	15	19	9	11	25	29	34	35	30	15	37	52.2
30-Jan-07	38	14	10	10	16	55	39	13	10	9	14	9	14	8	8	8	8	7	7	11	27	44	36	26	55.0
31-Jan-07	32	27	20	33	17	8	5	8	8	5	11	14	11	9	8	8	9	10	11	12	8	6	6	7	33.3
Hourly Max	78	59	57	64	59	64	66	61	68	57	56	69	65	51	37	69	73	78	64	57	68	59	48	67	

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



Calms:	**0%**

Frequency Distribution of Wind in km/hr			
Range			**Frequency (hrs)**
0.8	<	5	365
5	to	10	189
10	to	20	138
20	to	30	46
30	to	40	6
	>	40	0
Total Non-Zero Values			744

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

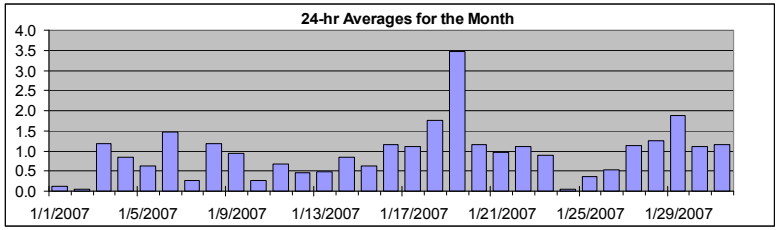
Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	14.0	ppb	19-Jan	16:00 17:00
Maximum 24-hr Average:	3.5	ppb	19-Jan	



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
	4.9	2.6	1.3	0.7	0.2	0.0	0.0	0.9 ppb	0.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.6
2-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.3
3-Jan-07	0	0	0	0	0	1	0	0	0	0	3	2	2	2	1	A	1	1	3	1	6	1	1	1	1.2	5.8
4-Jan-07	1	0	0	0	1	1	1	1	4	3	1	1	1	0	A	1	1	1	1	0	0	0	1	1	0.8	3.5
5-Jan-07	1	1	0	0	1	1	1	1	1	1	1	0	1	A	1	0	0	0	1	1	1	1	0	0	0.6	1.2
6-Jan-07	0	1	1	2	1	0	3	4	2	3	2	1	A	2	0	0	1	2	1	2	4	2	1	0	1.5	4.5
7-Jan-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	2	1	0	1	1	0	0	0	0	0.3	1.9
8-Jan-07	0	0	0	0	1	2	0	1	3	3	A	0	1	1	2	4	1	1	1	1	1	1	1	1	1.2	4.1
9-Jan-07	1	1	0	1	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
10-Jan-07	1	0	1	1	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
11-Jan-07	1	0	1	1	1	1	1	A	1	1	1	0	0	1	0	1	1	1	1	0	1	1	1	0	0.7	1.1
12-Jan-07	0	0	0	0	0	0	A	0	0	0	0	1	0	0	1	0	1	1	1	1	0	1	1	1	0.5	1.4
13-Jan-07	1	1	1	1	1	A	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.4
14-Jan-07	0	1	0	0	A	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	1	2	1	1	0.8	1.8
15-Jan-07	0	0	1	A	0	0	0	1	1	0	2	3	1	0	0	1	1	0	1	0	0	0	0	1	0.6	2.6
16-Jan-07	2	1	A	0	0	1	0	0	0	0	0	0	0	1	5	1	0	1	2	2	4	2	2	2	1.2	5.0
17-Jan-07	1	A	3	1	0	0	0	1	1	1	1	1	2	2	1	0	2	2	2	1	1	1	1	1	1.1	3.1
18-Jan-07	A	1	1	1	1	2	1	1	2	1	1	2	2	1	2	1	1	3	2	2	2	4	3	A	1.8	4.0
19-Jan-07	3	2	2	1	2	1	1	1	1	2	2	C	C	C	A	11	14	11	3	1	1	4	3	3	3.5	14.0
20-Jan-07	2	1	1	1	1	A	1	1	1	1	1	1	0	0	3	4	2	1	0	1	1	1	1	2	1.2	4.5
21-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	2	1	1	8	1	2	2	1	1	2	1.0	7.5
22-Jan-07	1	1	1	A	1	1	1	0	1	1	1	0	0	1	1	2	0	6	1	6	0	0	0	0	1.1	5.8
23-Jan-07	0	2	A	0	0	0	1	2	1	2	1	0	0	1	0	1	1	2	1	1	1	1	2	1	0.9	2.1
24-Jan-07	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
25-Jan-07	A	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	0.4	1.8
26-Jan-07	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	2	1	1	1	1	A	1	0.5	2.2
27-Jan-07	1	0	0	1	1	1	2	1	1	2	1	1	2	2	1	2	2	2	2	1	1	A	1	0	1.1	2.4
28-Jan-07	1	1	1	1	1	0	1	1	2	2	1	1	1	2	1	2	2	2	1	1	A	3	2	1	1.2	2.8
29-Jan-07	1	2	2	2	1	1	2	1	2	1	3	2	2	2	2	2	3	3	2	A	1	1	3	2	1.9	3.2
30-Jan-07	3	2	2	1	1	2	0	1	0	1	1	0	1	1	1	1	0	1	A	1	1	1	1	1	1.1	2.7
31-Jan-07	1	1	2	2	1	2	1	2	2	2	2	1	1	0	1	1	1	A	1	1	1	1	0	1	1.2	2.0
Hourly Avg	0.8	0.7	0.8	0.7	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.7	0.7	0.8	0.9	1.4	1.4	1.8	1.0	1.0	1.1	1.0	1.0	0.8		
Hourly Max	2.8	2.0	3.1	1.8	1.6	1.8	2.5	4.5	3.5	3.4	3.0	2.6	2.3	2.3	5.0	11.4	14.0	11.0	3.3	5.5	5.8	4.0	3.5	3.5		

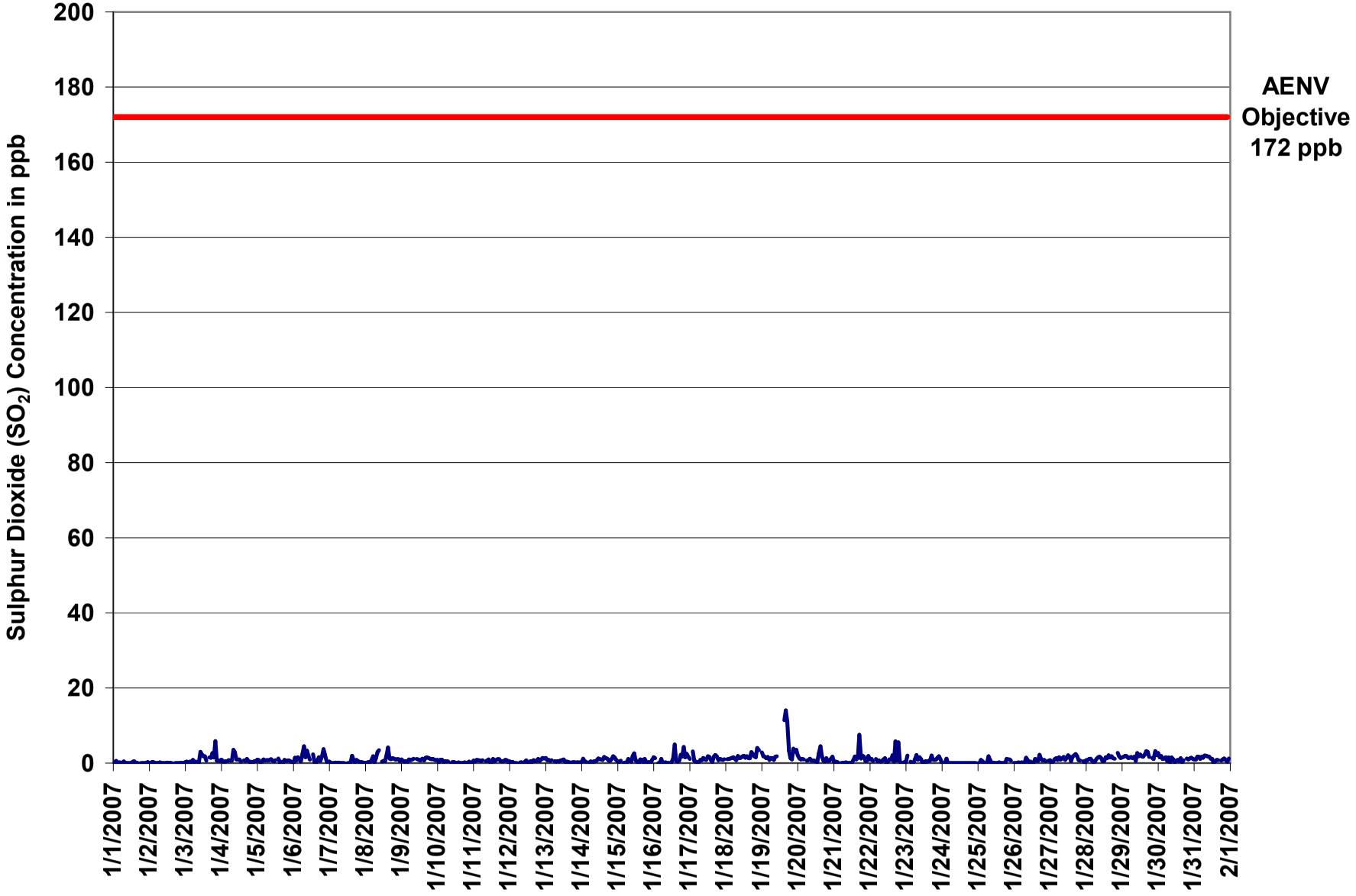


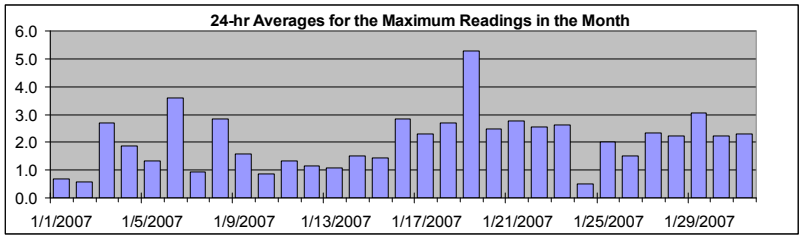
Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	19.4	ppb	19-Jan	16:00 17:00
Maximum 24-hr Value:	5.3	ppb	19-Jan	

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
	10.7	5.4	2.4	1.5	0.9	0.3	0.0	2.0 ppb	1.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	1	1	1	0	1	1	1	1	1	0	0	1	1	1	1	0	1	A	0	1	1	0	0	1	0.7	1.1
2-Jan-07	1	0	1	1	1	1	1	1	0	0	0	0	1	0	1	0	A	0	0	1	1	1	0	0	0.6	1.0
3-Jan-07	1	1	1	1	1	3	1	1	0	0	5	4	3	3	1	A	2	2	5	3	19	2	2	1	2.7	18.8
4-Jan-07	2	1	1	1	1	1	1	2	6	6	1	1	1	1	A	2	4	4	1	1	1	1	1	1	1.9	5.6
5-Jan-07	3	1	1	1	1	1	1	1	1	2	1	1	2	A	2	1	1	1	1	1	1	1	1	1	1.3	3.5
6-Jan-07	1	6	2	2	1	2	3	11	4	10	5	2	A	5	1	1	2	6	1	3	6	5	2	1	3.6	10.7
7-Jan-07	1	0	1	0	1	1	1	0	0	0	0	A	0	0	1	3	2	1	2	1	2	1	1	0	0.9	3.2
8-Jan-07	1	1	1	1	2	9	1	4	6	10	A	1	1	1	7	6	2	2	2	2	2	2	2	1	2.8	9.9
9-Jan-07	1	1	1	1	1	2	1	2	2	A	2	2	1	1	2	1	2	2	2	2	2	2	1	1	1.6	2.2
10-Jan-07	2	1	2	1	1	1	1	1	A	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0.9	1.5
11-Jan-07	1	1	1	1	1	2	1	A	1	1	2	1	1	2	1	2	2	2	1	1	1	1	1	1	1.3	1.8
12-Jan-07	1	1	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	1.1	2.0
13-Jan-07	2	2	1	1	2	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	1.9
14-Jan-07	1	2	1	1	A	1	1	1	1	2	2	2	1	2	2	2	2	2	1	1	2	3	2	2	1.5	2.8
15-Jan-07	1	1	1	A	1	1	1	2	1	1	3	5	1	1	1	2	2	1	2	1	1	1	1	2	1.4	4.9
16-Jan-07	3	6	A	1	1	5	0	1	1	1	0	0	2	7	8	3	1	2	3	4	7	3	4	4	2.8	7.5
17-Jan-07	3	A	6	1	1	1	1	2	2	2	2	2	6	3	2	1	4	3	3	2	2	2	2	2	2.3	6.1
18-Jan-07	A	1	2	2	2	2	2	2	3	2	2	3	3	2	3	2	2	5	3	2	3	6	5	A	2.7	5.7
19-Jan-07	5	3	3	2	2	1	2	2	2	3	3	C	C	C	A	15	19	16	7	3	2	7	5	5	5.3	19.4
20-Jan-07	3	2	1	2	2	A	1	2	2	1	1	1	1	1	7	13	2	1	1	3	1	1	3	4	2.5	13.1
21-Jan-07	3	1	1	1	A	1	1	1	1	1	1	1	1	1	3	2	7	17	3	5	5	2	1	5	2.8	17.2
22-Jan-07	2	2	2	A	2	1	1	1	1	2	3	1	2	1	1	4	3	14	3	10	1	0	1	1	2.6	14.2
23-Jan-07	3	4	A	1	0	1	5	7	8	4	3	1	0	1	1	1	3	3	2	1	2	2	3	2	2.6	7.6
24-Jan-07	1	A	1	2	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0.5	2.5
25-Jan-07	A	1	2	6	0	0	2	5	4	5	2	0	0	0	1	1	1	2	2	3	2	3	2	A	2.0	5.6
26-Jan-07	1	1	1	2	0	1	1	1	3	1	1	1	0	2	2	1	2	5	2	1	2	2	A	2	1.5	4.6
27-Jan-07	2	1	1	2	3	2	2	3	3	2	2	4	3	2	2	3	3	4	3	2	2	A	2	1	2.3	4.5
28-Jan-07	2	2	2	2	1	1	2	2	2	2	3	2	2	3	2	3	3	3	2	2	A	4	2	2	2.2	4.2
29-Jan-07	2	3	3	2	2	2	4	2	3	2	4	3	4	3	2	3	5	4	2	A	2	3	5	3	3.1	5.2
30-Jan-07	4	2	3	2	4	4	2	2	1	3	2	1	1	2	2	2	2	1	A	3	3	2	2	2	2.2	4.1
31-Jan-07	2	3	3	3	3	4	3	3	3	2	3	2	2	1	1	1	1	A	1	2	2	2	2	3	2.3	4.0
Hourly Avg	1.8	1.8	1.6	1.6	1.4	1.8	1.5	2.2	2.2	2.3	1.8	1.6	1.5	1.8	2.1	2.6	2.8	3.7	2.0	2.2	2.6	2.0	1.9	1.8		
Hourly Max	4.6	6.2	6.1	5.6	3.5	8.8	4.8	10.7	7.6	10.2	5.2	4.9	5.9	7.0	7.5	14.6	19.4	17.2	7.1	10.5	18.8	6.5	5.5	5.2		

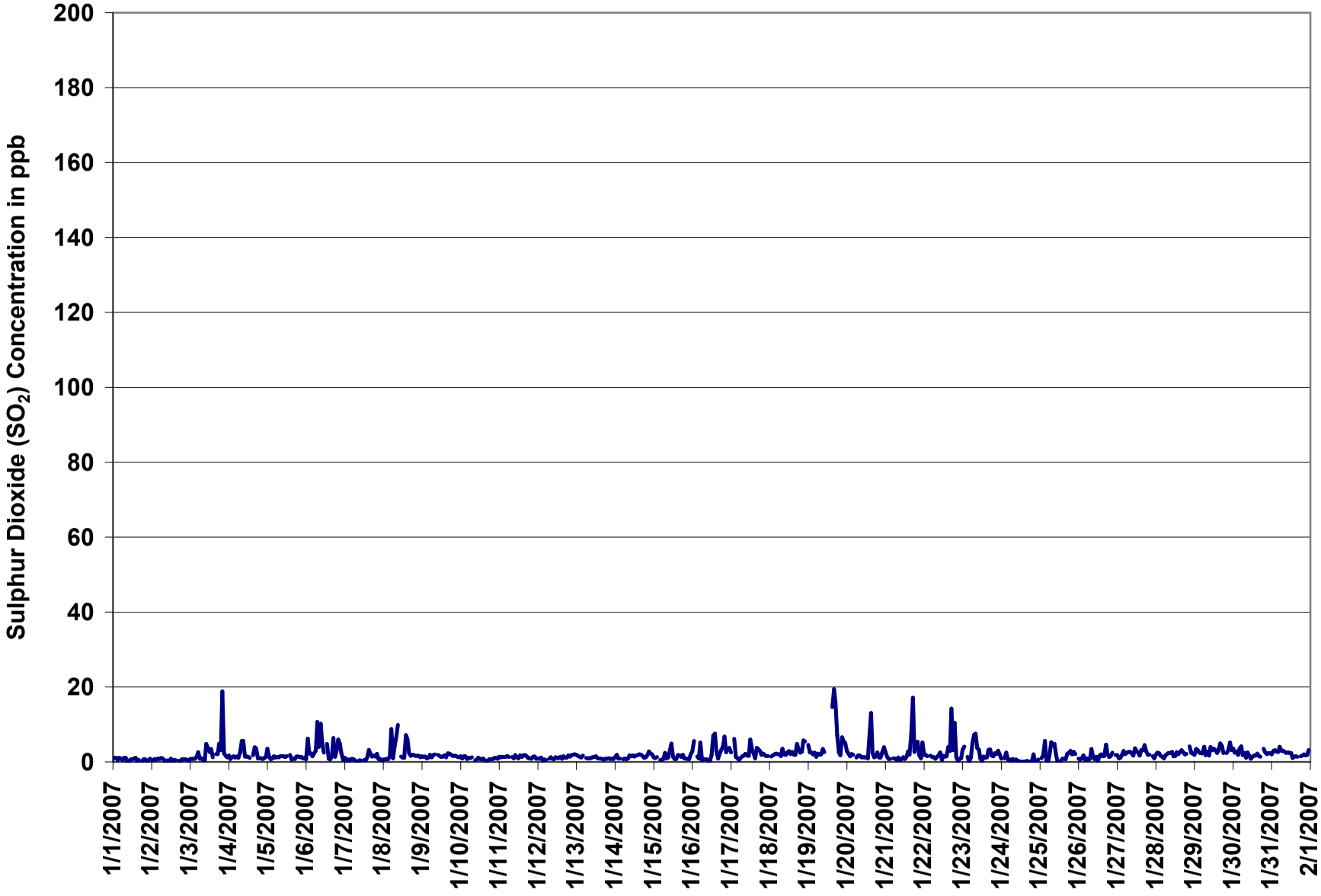
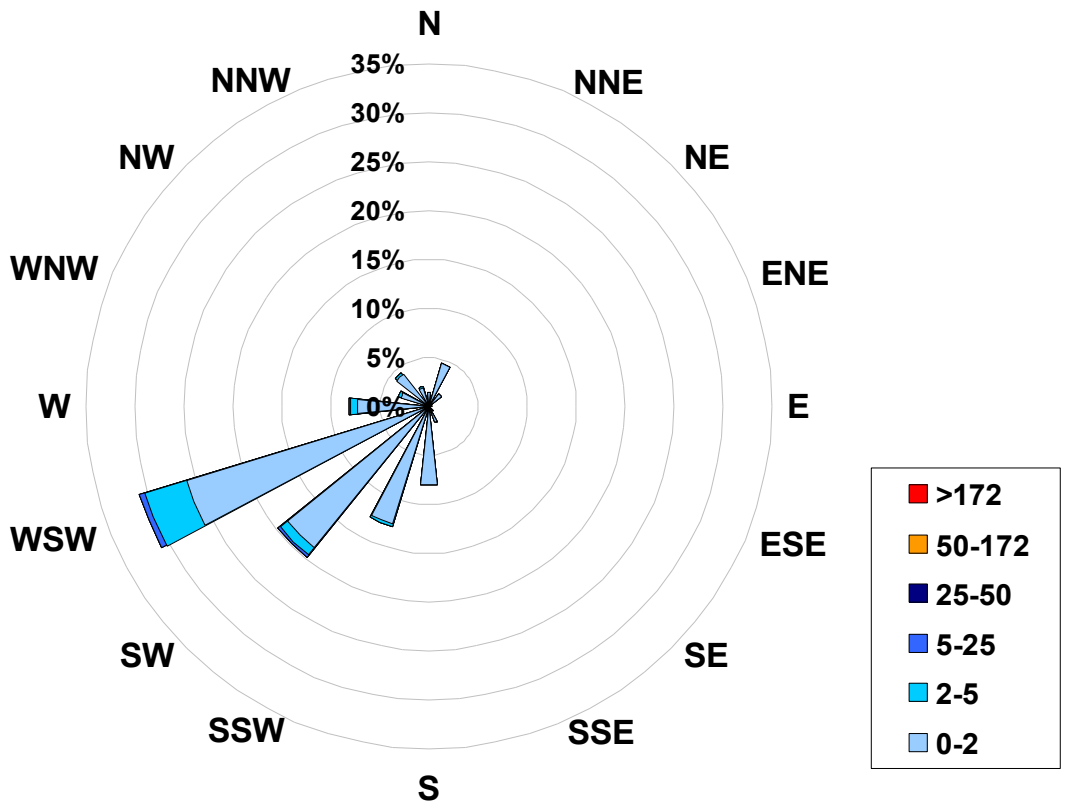


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	650
2	to	5	51
5	to	25	7
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			708

PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

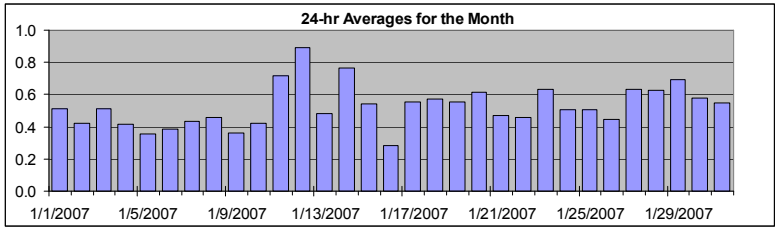
Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	1.7	ppb	12-Jan	3:00 4:00
Maximum 24-hr Value:	0.9	ppb	12-Jan	



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
	1.2	0.8	0.6	0.5	0.4	0.3	0.2	0.5 ppb	0.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	1	1	1	1	0	0	0	1	0	0	0	0	1	1	1	1	0	A	0	1	1	0	1	0	0.5	0.7
2-Jan-07	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0.4	0.5
3-Jan-07	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	1	1	1	1	1	0	1	0	0.5	0.7
4-Jan-07	1	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.4	0.5
5-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.4	0.5
6-Jan-07	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
7-Jan-07	0	0	1	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	1	1	0.4	0.6
8-Jan-07	0	1	0	1	0	0	0	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0.6
9-Jan-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.4	0.5
10-Jan-07	1	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.4	0.5
11-Jan-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
12-Jan-07	1	1	2	2	2	2	A	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.9	1.7
13-Jan-07	0	1	0	1	1	A	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0.5	0.7
14-Jan-07	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
15-Jan-07	1	1	1	A	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0.5	1.2
16-Jan-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
17-Jan-07	0	A	0	0	1	0	0	0	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0.6	1.1
18-Jan-07	A	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	0.6	0.6
19-Jan-07	1	1	1	0	1	0	1	1	1	1	1	C	C	C	A	1	1	0	1	0	1	0	0	1	0.6	0.9
20-Jan-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
21-Jan-07	1	0	0	1	A	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0.5	0.6
22-Jan-07	0	0	0	A	0	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0.5	0.5
23-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
24-Jan-07	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0.5	0.7
25-Jan-07	A	1	1	1	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	1	0	1	A	0.5	0.6
26-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	0	0.4	0.7
27-Jan-07	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8
28-Jan-07	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.7
29-Jan-07	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.1
30-Jan-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	1	1	1	1	1	0.6	0.8
31-Jan-07	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	1	A	1	0	0	0	1	0	0.5	1.0
Hourly Avg	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Hourly Max	1.5	1.3	1.5	1.7	1.5	1.6	1.0	1.7	1.1	0.9	0.9	1.0	1.1	1.0	0.9	0.8	0.8	1.0	1.0	0.7	1.0	1.0	1.1	1.1		

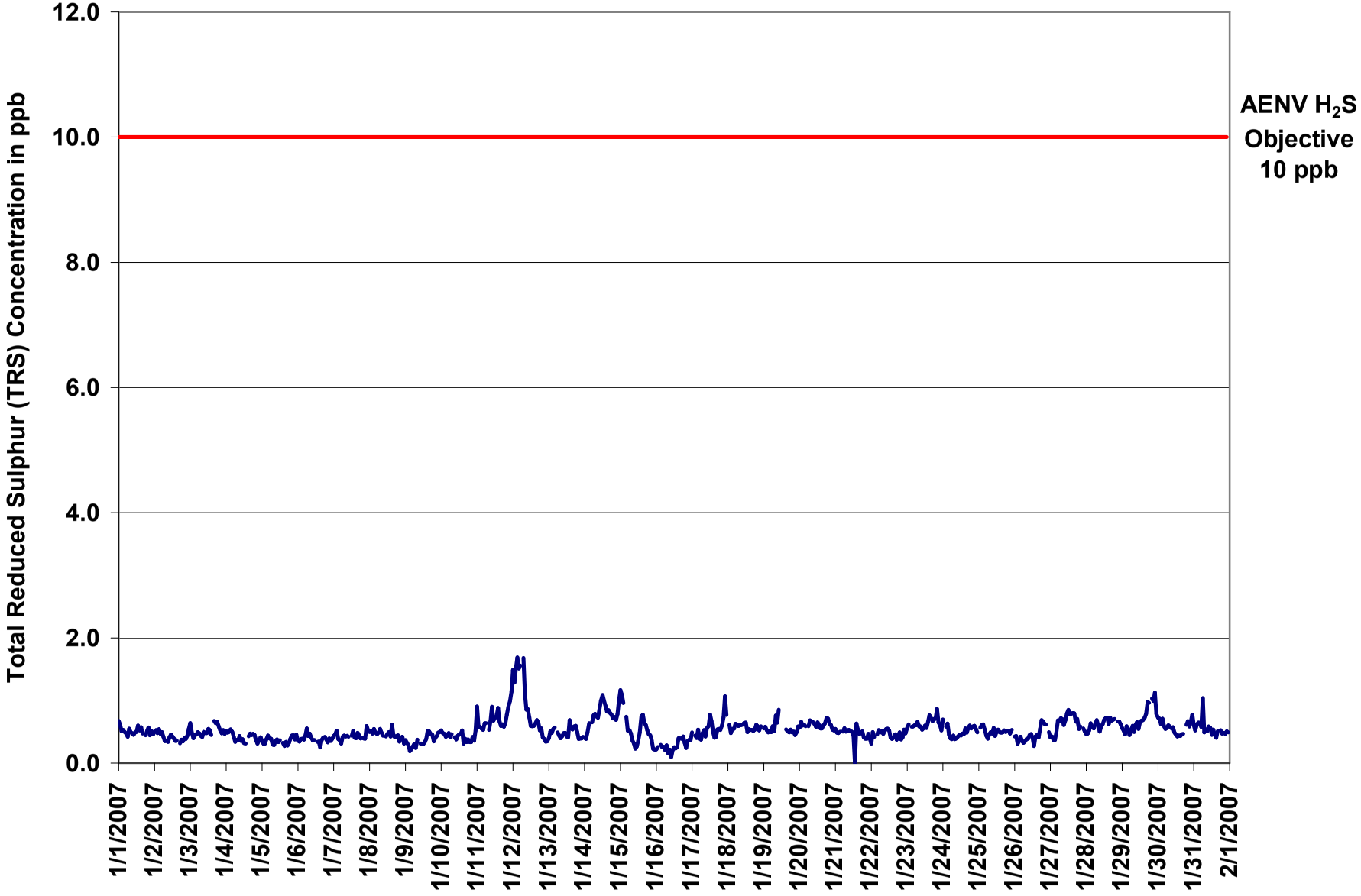


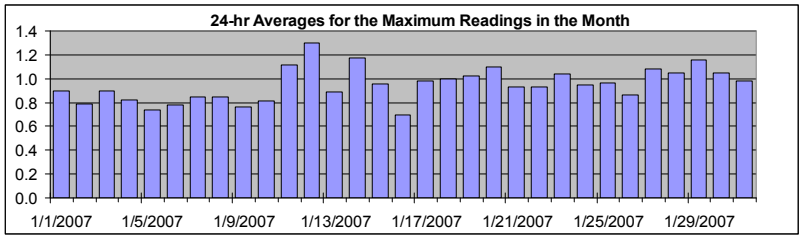
Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	2.2	ppb	12-Jan	7:00 8:00
Maximum 24-hr Value:	1.3	ppb	12-Jan	

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
	1.7	1.3	1.1	0.9	0.8	0.7	0.6	0.9 ppb	0.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.1
2-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.0
3-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.2
4-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.2
5-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	0.9
6-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
7-Jan-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
8-Jan-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
9-Jan-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
10-Jan-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
11-Jan-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	1.6
12-Jan-07	2	2	2	2	2	2	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.2
13-Jan-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
14-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1.2	1.5
15-Jan-07	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5
16-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
17-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	1.7
18-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.2
19-Jan-07	1	1	1	1	1	1	1	1	2	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1.0	1.7
20-Jan-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
21-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
22-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
23-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
24-Jan-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
25-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.2
26-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.2
27-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	1.4
28-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.3
29-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	2	1	1.2	1.5
30-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1.1	1.6
31-Jan-07	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0	1.6
Hourly Avg	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.9	1.0	1.0	0.9	1.0	0.9	1.0	1.0		
Hourly Max	1.9	1.7	1.9	2.2	2.1	2.0	1.6	2.2	1.7	1.4	1.3	1.4	1.5	1.4	1.4	1.3	1.4	1.5	1.3	1.3	1.5	1.5	1.7	1.6		

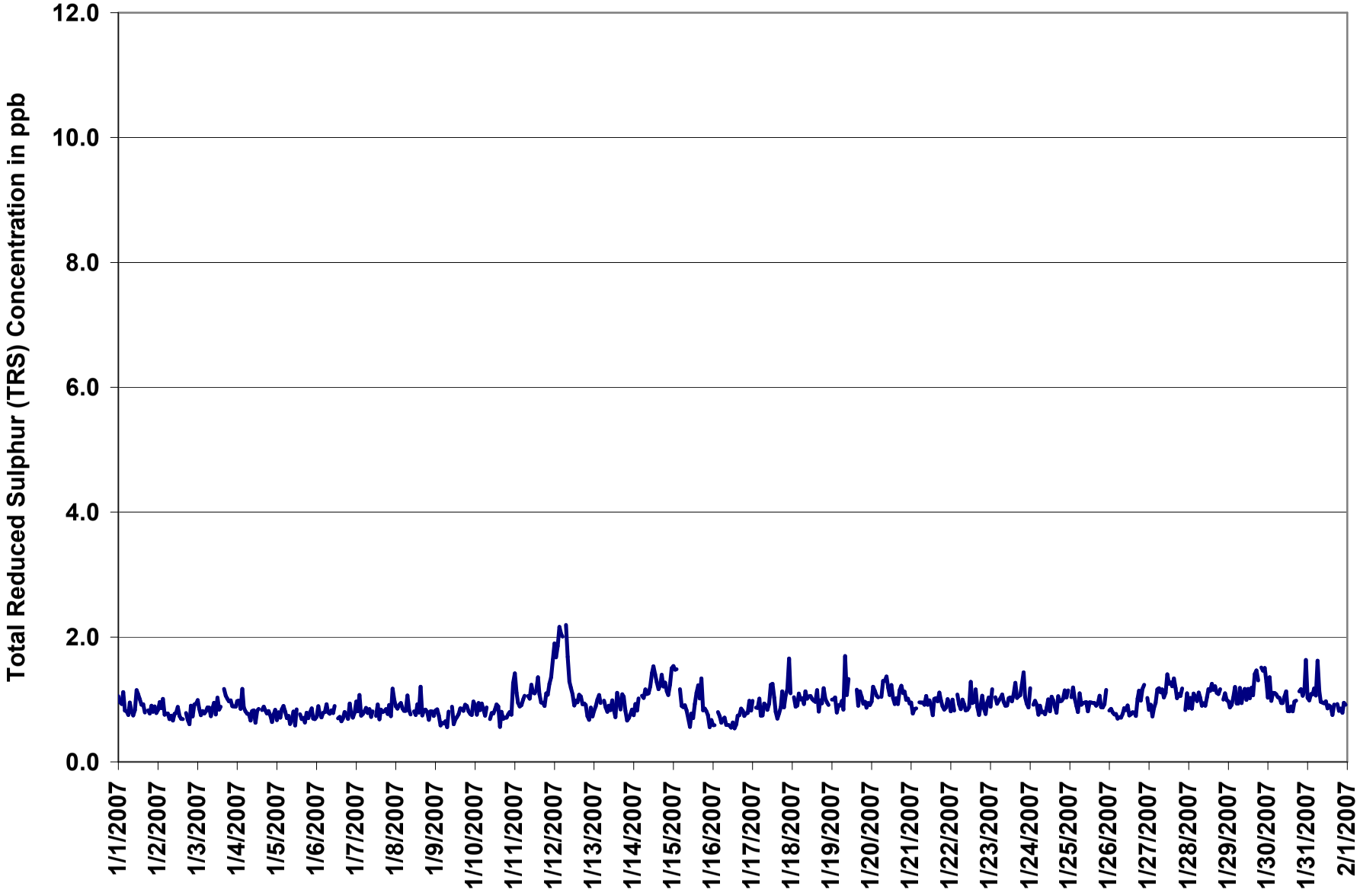
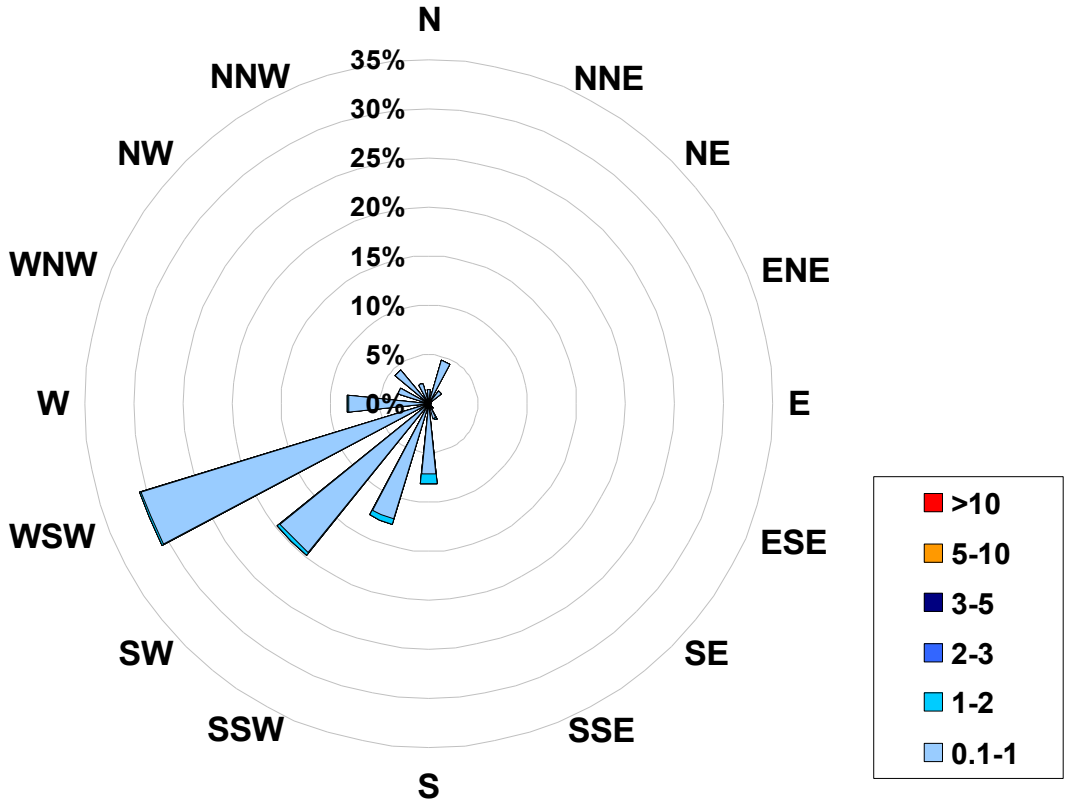


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	691
1	to	2	17
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

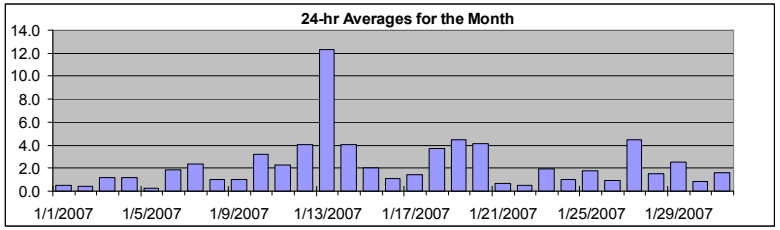
Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	91.4	µg/m³	13-Jan	14:00 15:00
Maximum 24-hr Value:	12.3	µg/m³	13-Jan	



AIC Time:			0 hrs		Operational Time:				733 hrs	
Calibration Time:			5 hrs		AMD Operational Uptime:				99.2%	
Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	11.9	6.2	3.1	1.2	0.1	0.0	0.0	2.2	1 µg/m˜	1.6 µg/m˜

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	1	0	0	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0.5	3.3
2-Jan-07	2	0	1	0	0	0	0	0	0	0	0	D	D	0	0	0	1	0	1	1	0	0	0	3	0.4	2.6
3-Jan-07	4	0	1	3	1	0	1	0	1	1	0	0	0	0	1	1	2	3	2	1	1	1	1	1	1.2	4.2
4-Jan-07	1	1	1	1	2	1	1	1	2	2	1	1	1	1	0	1	2	2	1	1	1	1	1	1	1.2	2.3
5-Jan-07	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	1.4
6-Jan-07	1	4	3	4	2	2	3	2	2	2	3	2	2	2	2	1	2	1	0	2	1	1	0	0	1.8	3.9
7-Jan-07	0	0	0	0	0	D	0	0	0	0	3	10	3	6	1	2	3	4	3	3	1	7	5	4	2.4	9.8
8-Jan-07	4	4	4	3	0	1	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	0	1.0	4.1
9-Jan-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	3	2	0	2	4	5	5	1.0	4.9
10-Jan-07	5	4	5	5	4	4	3	3	4	5	5	6	4	4	2	3	3	5	1	1	1	1	0	0	3.2	5.7
11-Jan-07	1	0	1	1	0	1	0	1	2	2	4	2	3	4	3	2	1	2	3	3	4	3	5	5	2.3	5.5
12-Jan-07	5	5	6	6	5	5	4	5	3	2	3	3	2	0	1	3	5	3	4	4	3	4	9	7	4.1	8.9
13-Jan-07	4	8	7	6	3	1	1	1	1	1	2	4	2	5	91	7	0	56	56	D	D	D	0	0	12.3	91.4
14-Jan-07	0	0	3	2	3	3	4	4	3	3	3	5	6	6	5	6	5	7	4	4	5	4	4	7	4.1	7.5
15-Jan-07	9	9	8	3	3	0	2	2	1	0	0	0	0	0	1	2	2	3	1	0	1	1	0	0	2.0	9.0
16-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	2	4	5	4	3	1	1.1	5.3
17-Jan-07	2	1	2	1	2	1	1	1	1	2	1	1	1	0	1	1	2	2	1	2	1	1	2	3	1.4	2.7
18-Jan-07	4	4	2	1	2	3	3	3	4	4	6	5	4	3	3	3	5	5	3	4	4	4	4	7	3.7	6.5
19-Jan-07	2	2	3	0	6	3	2	2	3	5	9	4	0	C	C	C	C	C	1	4	7	10	11	12	4.4	12.0
20-Jan-07	13	12	8	6	6	1	2	6	7	4	4	4	1	2	2	2	2	3	3	3	2	3	2	0	4.2	12.8
21-Jan-07	0	0	0	0	0	9	0	0	0	0	0	0	0	0	2	2	2	1	0	0	0	1	0	0	0.7	8.8
22-Jan-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	1	1	1	1	2	1	0.5	2.0
23-Jan-07	2	1	1	1	0	0	1	1	0	3	1	1	1	1	2	3	4	4	4	5	4	6	1	1	2.0	5.8
24-Jan-07	4	2	2	1	0	1	1	1	1	2	1	1	0	0	0	0	0	0	0	6	0	0	0	0	1.0	5.9
25-Jan-07	0	2	2	3	4	3	2	1	1	0	2	1	1	1	1	1	1	2	1	1	2	4	4	3	1.8	4.3
26-Jan-07	2	0	1	0	1	1	0	1	1	1	1	1	0	1	0	1	2	1	1	2	0	2	0	0	0.9	2.2
27-Jan-07	0	0	0	0	0	0	0	1	2	2	5	6	5	9	10	12	13	16	11	4	4	4	2	2	4.5	16.1
28-Jan-07	1	1	1	1	1	0	1	2	1	2	2	2	1	2	1	1	3	0	5	2	3	1	0	0	1.5	4.9
29-Jan-07	0	0	0	0	0	0	1	1	1	2	4	3	3	4	3	5	3	3	4	5	4	6	4	5	2.5	6.3
30-Jan-07	3	2	2	1	0	0	0	1	1	1	4	3	0	0	0	0	0	1	0	1	0	0	0	0	0.8	4.4
31-Jan-07	0	0	1	3	4	3	6	3	3	3	4	2	1	1	0	0	1	1	0	0	0	0	1	2	1.6	6.1
Hourly Avg	2.2	2.1	2.1	1.9	1.6	1.5	1.3	1.4	1.5	1.7	2.2	2.3	1.4	1.7	4.4	2.1	2.3	4.3	3.7	2.2	1.9	2.5	2.1	2.4		
Hourly Max	12.8	11.7	8.4	6.5	6.1	8.8	6.1	6.2	6.9	4.8	8.6	9.8	6.1	8.9	91.4	12.1	13.1	56.1	56.0	5.9	6.6	9.6	10.7	12.0		

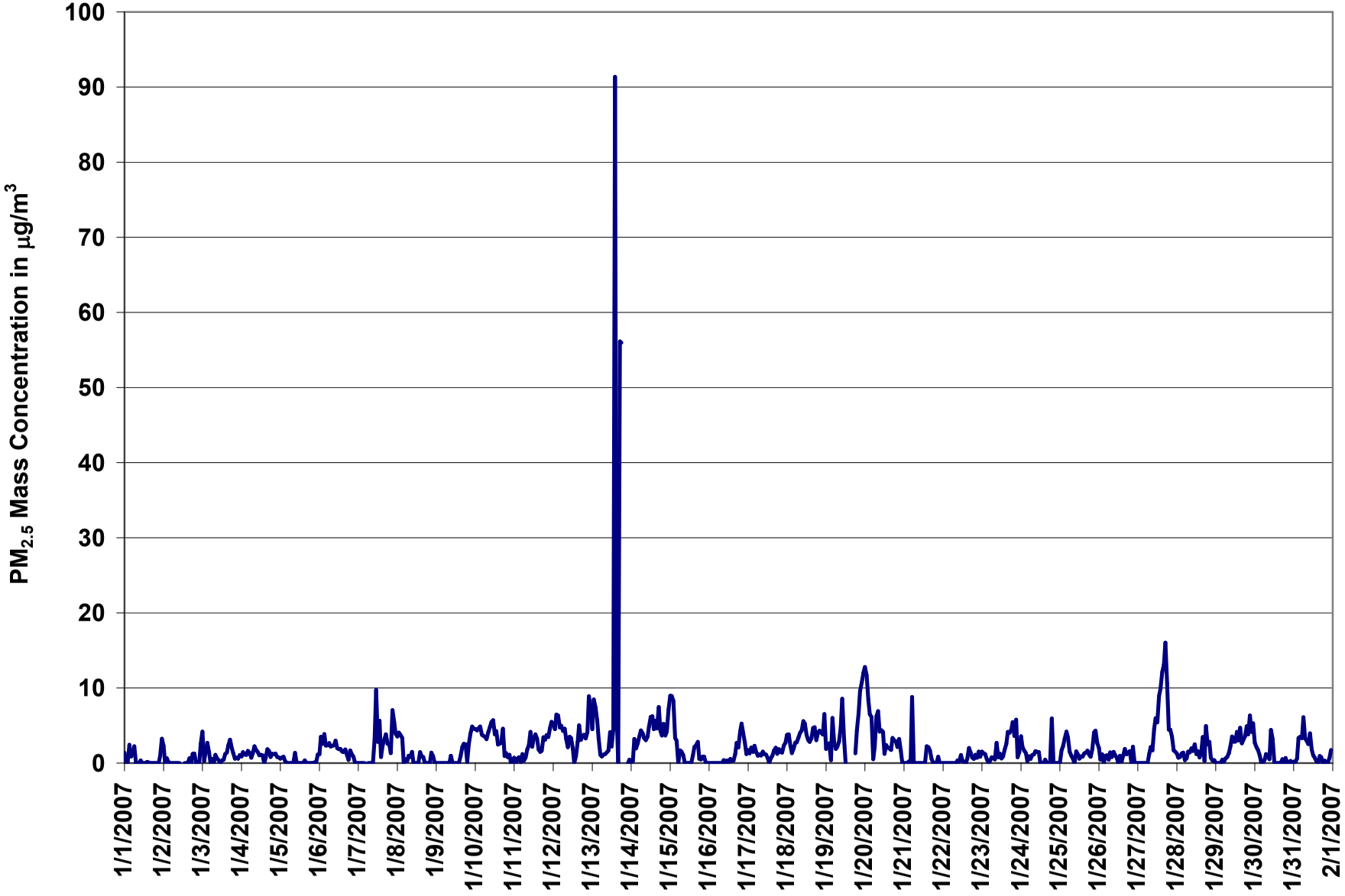


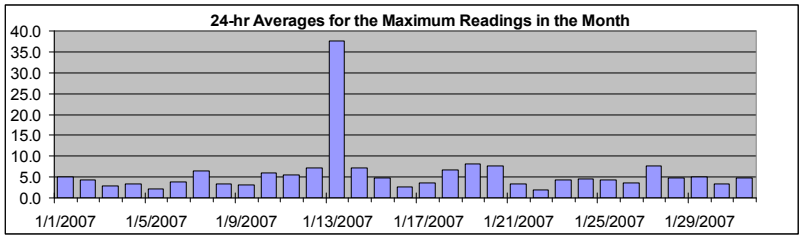
Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	247.5	µg/m³	13-Jan	14:00 15:00
Maximum 24-hr Value:	37.6	µg/m³	13-Jan	

AIC Time:	0 hrs	Operational Time:	733 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.2%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	31.7	12.2	5.9	3.8	2.3	0.8	0.0	5.6	4 µg/m˘	4.7 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	7	3	3	11	6	7	9	0	0	1	3	0	1	1	2	3	1	3	2	1	1	2	3	52	5.1	52.4
2-Jan-07	38	4	3	5	2	5	3	2	1	2	1	D	D	0	0	1	3	1	3	7	5	3	2	5	4.4	38.1
3-Jan-07	6	2	3	4	4	1	2	1	2	2	2	1	2	2	3	3	4	4	4	3	2	2	4	4	2.8	5.7
4-Jan-07	3	4	3	3	4	5	3	4	4	4	4	3	2	2	2	4	4	4	3	3	3	3	3	2	3.4	5.5
5-Jan-07	2	3	4	3	2	1	1	0	1	9	1	2	0	1	2	3	2	1	0	2	2	3	2	3	2.1	8.7
6-Jan-07	4	6	4	5	5	4	5	3	4	4	5	4	3	4	4	3	4	3	2	3	3	3	1	3	3.7	5.6
7-Jan-07	4	0	0	1	0	D	0	1	0	1	22	32	9	19	3	4	5	6	5	5	5	10	8	6	6.4	32.0
8-Jan-07	5	6	7	7	3	3	3	3	3	4	1	1	2	3	4	4	4	2	1	1	1	3	4	1	3.2	6.8
9-Jan-07	0	1	1	2	1	4	3	1	1	6	2	2	2	1	2	3	3	4	5	3	4	6	7	6	3.0	6.5
10-Jan-07	7	6	7	7	6	5	6	5	7	7	9	13	7	7	6	4	5	11	3	3	3	3	2	4	5.9	12.6
11-Jan-07	3	3	5	5	3	5	4	4	5	6	9	6	6	7	5	6	4	5	6	7	7	6	8	8	5.5	8.7
12-Jan-07	8	9	9	10	7	8	8	8	8	6	6	7	5	5	3	5	8	7	6	6	5	6	12	11	7.2	11.9
13-Jan-07	10	20	28	16	8	3	4	4	3	4	5	11	6	28	248	45	12	179	146	D	D	D	5	6	37.6	247.5
14-Jan-07	1	7	6	6	5	6	9	7	5	6	7	7	9	9	8	10	7	11	7	6	9	5	7	10	7.1	10.6
15-Jan-07	11	10	12	5	6	1	4	14	5	7	0	1	0	0	3	5	5	7	4	2	2	2	2	4	4.8	14.2
16-Jan-07	2	1	0	1	1	1	0	1	3	5	2	2	2	2	2	1	3	4	4	7	8	6	4	3	2.6	7.5
17-Jan-07	3	4	4	4	7	5	3	3	3	3	3	4	3	1	3	3	4	5	3	4	4	3	5	6	3.6	7.0
18-Jan-07	6	6	4	4	4	7	5	8	7	8	9	8	6	5	5	5	9	8	5	7	7	7	8	11	6.6	10.9
19-Jan-07	5	6	6	3	17	4	6	4	6	10	13	6	2	C	C	C	C	C	6	8	11	13	14	14	8.1	16.9
20-Jan-07	16	14	15	9	9	3	10	10	14	13	7	8	5	5	4	4	4	5	6	6	5	6	5	2	7.7	16.3
21-Jan-07	2	2	3	3	1	31	1	0	2	1	2	1	1	2	5	5	5	3	1	2	2	4	1	1	3.3	31.0
22-Jan-07	0	0	0	1	1	1	1	1	2	2	2	3	2	1	2	2	4	3	2	2	2	2	3	2	1.8	3.9
23-Jan-07	4	4	3	2	2	3	3	2	4	5	3	4	4	4	4	5	6	6	7	7	7	13	2	4	4.4	13.3
24-Jan-07	5	4	9	5	2	4	2	4	3	4	5	3	1	1	2	2	2	1	2	39	1	2	1	3	4.5	38.8
25-Jan-07	2	5	6	6	7	6	5	3	2	4	4	3	3	2	3	3	3	4	3	3	8	7	8	6	4.4	8.0
26-Jan-07	5	3	3	2	4	3	3	3	4	4	4	2	2	3	3	4	4	5	3	7	3	5	3	2	3.5	7.3
27-Jan-07	2	1	3	2	2	3	3	6	5	4	9	9	8	14	13	15	16	22	16	13	7	6	3	3	7.7	21.7
28-Jan-07	4	3	2	4	4	3	4	5	4	5	4	5	3	4	3	6	10	3	15	6	7	4	3	3	4.7	14.7
29-Jan-07	2	2	0	2	2	3	3	3	3	5	7	5	5	6	5	9	5	5	7	8	6	10	8	12	5.1	12.0
30-Jan-07	5	5	3	3	2	1	3	3	3	2	12	12	2	1	1	1	2	2	2	3	3	2	4	3	3.3	12.1
31-Jan-07	4	4	7	6	9	9	9	7	5	4	6	4	3	3	2	2	2	5	4	4	2	3	4	6	4.7	9.3
Hourly Avg	5.7	4.8	5.2	4.7	4.4	4.8	4.1	4.0	3.8	4.8	5.4	5.6	3.5	4.7	11.7	5.6	5.0	11.0	9.1	5.9	4.5	5.0	4.7	6.7		
Hourly Max	38.1	19.8	28.1	16.1	16.9	31.0	10.4	14.2	14.1	12.5	21.7	32.0	9.1	28.2	247.5	44.6	16.4	179.1	146.4	38.8	10.8	13.3	14.0	52.4		

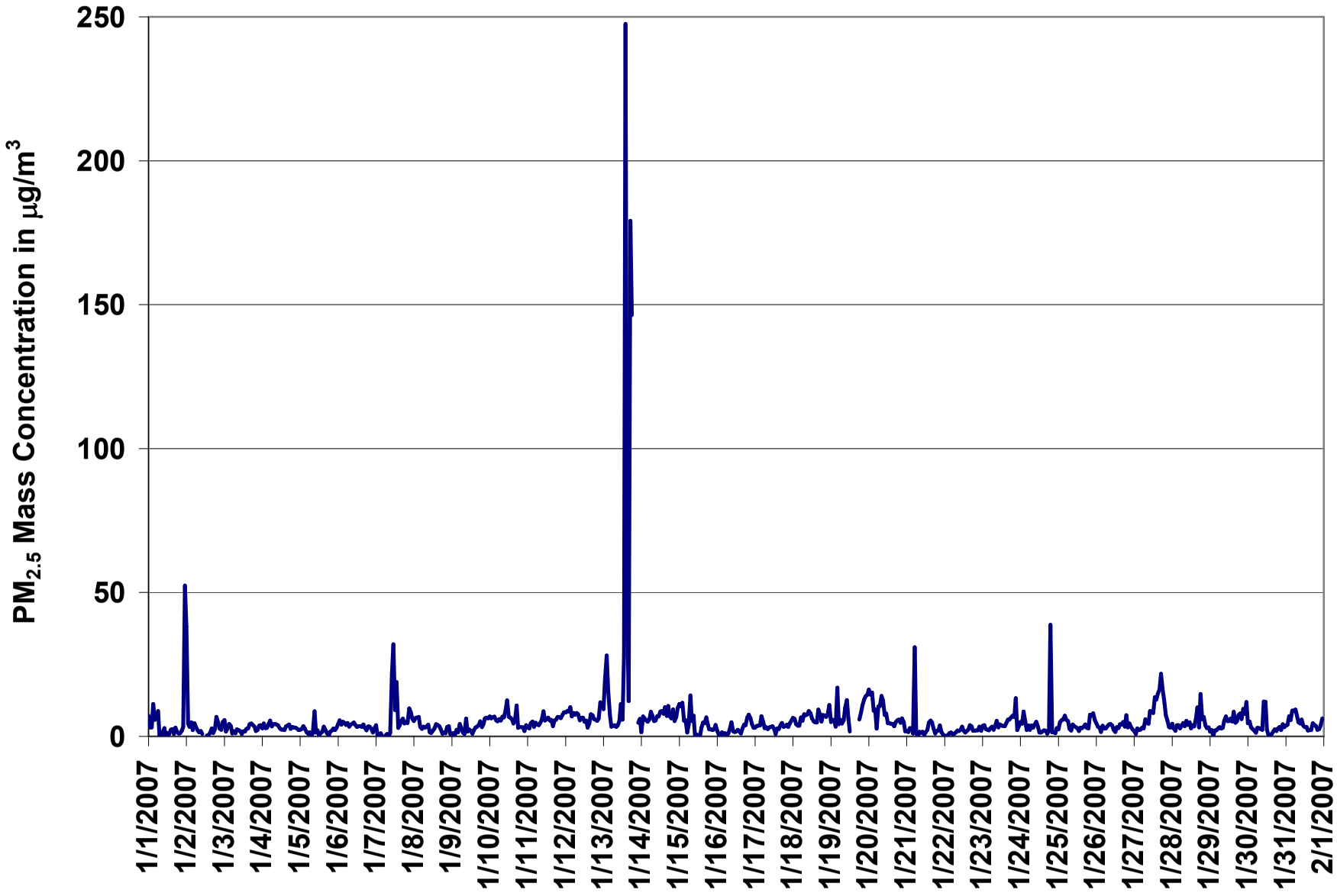
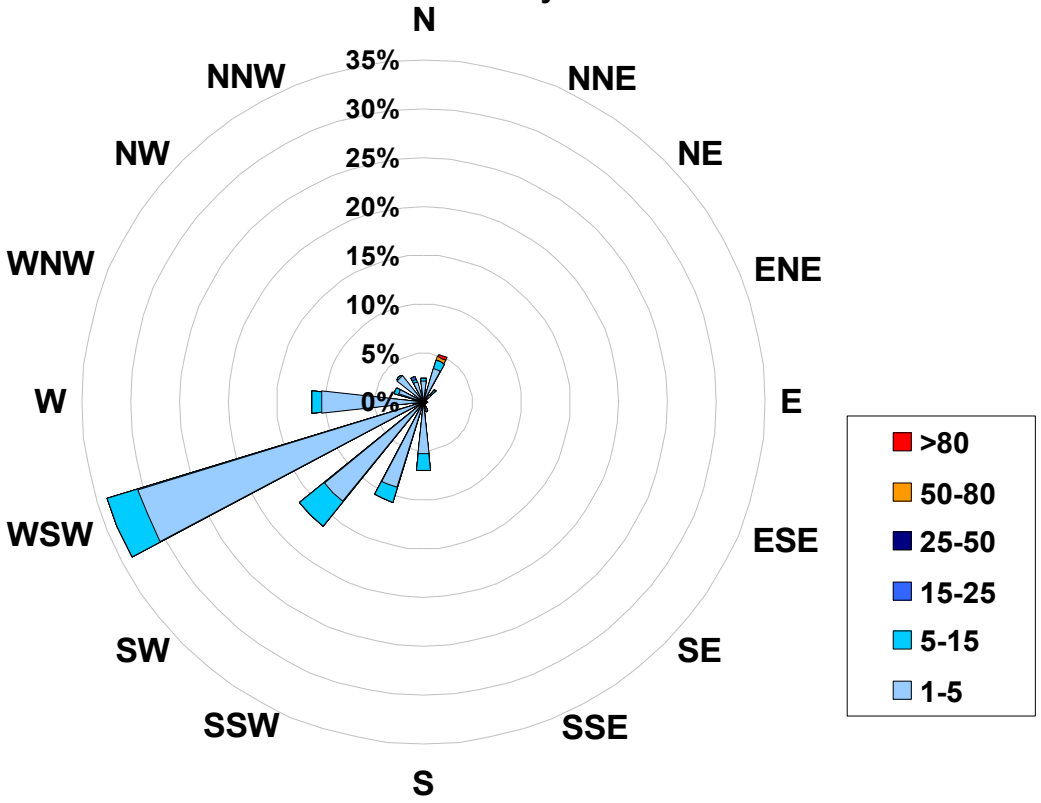


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	672
5	to	15	57
15	to	25	1
25	to	50	0
50	to	80	2
	>	80	1
Total Non-Zero Values			733

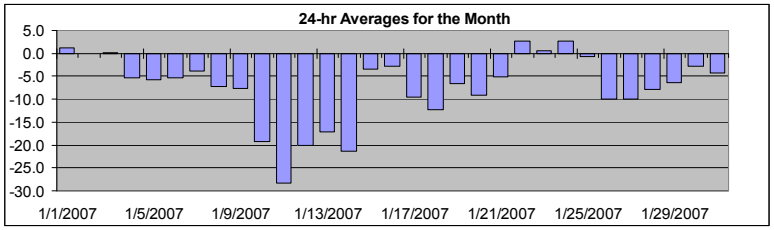
PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	7.4	°C	24-Jan	16:00 17:00
Maximum 24-hr Value:	2.8	°C	24-Jan	

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
	5.0	3.0	-1.2	-6.1	-11.2	-25.3	-29.5	-7.3 °C	-6.1 °C

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	-6	-5	-3	-2	-1	-2	0	-2	-1	0	1	3	3	5	5	5	4	4	4	4	4	3	3	2	1.1	4.8
2-Jan-07	0	-2	-2	-3	-1	-3	-2	-3	-2	-1	1	2	3	3	3	2	1	1	1	1	1	-1	-1	-1	-0.1	3.4
3-Jan-07	1	3	3	3	3	3	3	2	2	2	1	0	1	2	1	0	-1	-2	-3	-4	-3	-4	-5	-5	0.1	3.1
4-Jan-07	-6	-6	-6	-8	-8	-8	-7	-8	-6	-6	-4	-3	-2	-1	-1	-2	-3	-4	-4	-5	-6	-6	-7	-9	-5.3	-1.3
5-Jan-07	-10	-10	-10	-11	-11	-13	-13	-10	-9	-8	-6	-5	-4	-3	-1	0	-1	0	-1	-2	-3	-3	-2	-2	-5.7	-0.3
6-Jan-07	-2	-3	-2	-4	-3	-4	-5	-5	-6	-7	-7	-6	-4	-3	-4	-4	-6	-7	-7	-7	-7	-7	-10	-11	-5.3	-1.8
7-Jan-07	-10	-11	-10	-8	-7	-8	-7	-6	-5	-4	-3	-3	-2	-2	-2	-2	-2	-1	2	1	2	0	-1	-2	-3.8	2.0
8-Jan-07	-4	-6	-7	-7	-8	-10	-11	-9	-8	-7	-7	-9	-7	-6	-5	-6	-5	-5	-6	-7	-8	-9	-8	-7	-7.2	-4.1
9-Jan-07	-7	-7	-7	-8	-7	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-10	-12	-13	-14	-15	-7.6	-5.5
10-Jan-07	-15	-15	-16	-15	-16	-17	-17	-18	-18	-19	-19	-19	-19	-20	-20	-21	-21	-22	-22	-22	-22	-22	-23	-23	-19.3	-15.1
11-Jan-07	-24	-26	-28	-29	-31	-32	-32	-32	-32	-32	-31	-30	-28	-27	-26	-25	-26	-27	-27	-28	-28	-28	-27	-27	-28.4	-23.9
12-Jan-07	-26	-28	-28	-29	-28	-28	-27	-27	-25	-25	-23	-20	-17	-16	-16	-15	-14	-14	-14	-14	-13	-12	-11	-10	-20.0	-9.9
13-Jan-07	-10	-11	-11	-12	-12	-13	-15	-16	-17	-17	-18	-17	-16	-16	-16	-16	-18	-20	-21	-22	-24	-25	-25	-24	-17.2	-10.2
14-Jan-07	-25	-26	-25	-25	-26	-26	-26	-27	-25	-24	-23	-22	-20	-18	-18	-17	-18	-18	-19	-19	-16	-15	-15	-16	-21.3	-15.0
15-Jan-07	-16	-15	-13	-12	-10	-9	-9	-5	-2	0	3	3	3	2	1	0	0	-1	0	-1	0	-2	-1	0	-3.4	3.3
16-Jan-07	1	0	-3	-3	-3	-3	-2	-2	-2	-3	-3	-2	-2	-1	-1	-1	-2	-4	-5	-6	-6	-6	-5	-5	-2.8	0.8
17-Jan-07	-7	-9	-10	-12	-11	-6	-6	-8	-8	-8	-7	-7	-7	-6	-7	-8	-9	-11	-12	-14	-13	-14	-15	-15	-9.6	-5.5
18-Jan-07	-16	-14	-12	-13	-16	-15	-16	-16	-17	-18	-17	-13	-11	-8	-8	-8	-7	-8	-10	-9	-11	-11	-11	-10	-12.2	-7.4
19-Jan-07	-10	-12	-10	-8	-7	-6	-6	-7	-9	-10	-10	-5	-1	0	0	-1	-3	-5	-8	-9	-8	-7	-8	-9	-6.6	0.1
20-Jan-07	-8	-9	-8	-10	-10	-10	-11	-11	-13	-13	-12	-9	-7	-5	-4	-4	-6	-8	-9	-12	-12	-11	-10	-8	-9.1	-3.7
21-Jan-07	-9	-10	-12	-11	-12	-12	-9	-9	-9	-8	-8	-6	-4	-3	-4	-3	-1	0	-1	0	1	3	3	2	-5.1	2.5
22-Jan-07	1	1	1	1	1	1	0	0	1	1	2	2	3	3	4	5	5	5	5	4	4	4	4	3	2.6	5.0
23-Jan-07	3	3	2	1	0	1	0	-1	-2	-2	-1	0	1	2	2	1	1	0	-1	0	0	0	1	2	0.5	3.1
24-Jan-07	1	1	1	1	1	2	2	2	2	2	2	3	4	5	5	7	7	5	4	2	2	2	4	0	2.8	7.4
25-Jan-07	0	1	2	2	1	5	5	4	2	2	2	2	3	2	2	1	0	-2	-4	-5	-8	-10	-11	-10	-0.6	5.2
26-Jan-07	-8	-6	-6	-8	-11	-10	-10	-10	-11	-11	-10	-9	-6	-5	-6	-8	-10	-12	-14	-14	-15	-14	-14	-14	-10.1	-4.8
27-Jan-07	-13	-13	-13	-15	-14	-16	-17	-17	-17	-17	-14	-12	-10	-9	-8	-7	-8	-9	-8	-2	0	0	0	-2	-10.0	0.0
28-Jan-07	-3	-4	-5	-6	-7	-10	-13	-12	-12	-10	-8	-8	-7	-5	-4	-4	-7	-9	-10	-9	-8	-8	-9	-8	-7.8	-3.2
29-Jan-07	-7	-6	-6	-6	-5	-6	-5	-6	-7	-9	-7	-6	-5	-4	-2	-2	-4	-6	-8	-9	-10	-10	-10	-5	-6.3	-1.8
30-Jan-07	-3	-1	-2	-1	-1	-1	-2	-2	-2	-2	-2	0	1	2	2	2	1	-2	-5	-8	-9	-9	-11	-10	-2.8	1.7
31-Jan-07	-11	-12	-12	-10	-9	-8	-7	-1	-1	-2	-2	-2	-1	-1	-1	-1	-1	-1	-2	-2	-3	-3	-3	-5	-4.3	-0.9
Hourly Avg	-8.0	-8.4	-8.4	-8.6	-8.8	-8.7	-8.7	-8.5	-8.5	-8.4	-7.6	-6.5	-5.3	-4.5	-4.4	-4.5	-5.2	-6.0	-6.9	-7.3	-7.5	-7.7	-7.8	-7.9		
Hourly Max	3.1	2.9	3.1	2.9	2.7	4.9	5.2	4.0	2.5	2.0	2.6	3.1	4.2	5.0	5.1	7.3	7.4	5.1	4.9	4.5	4.4	4.0	4.2	3.2		

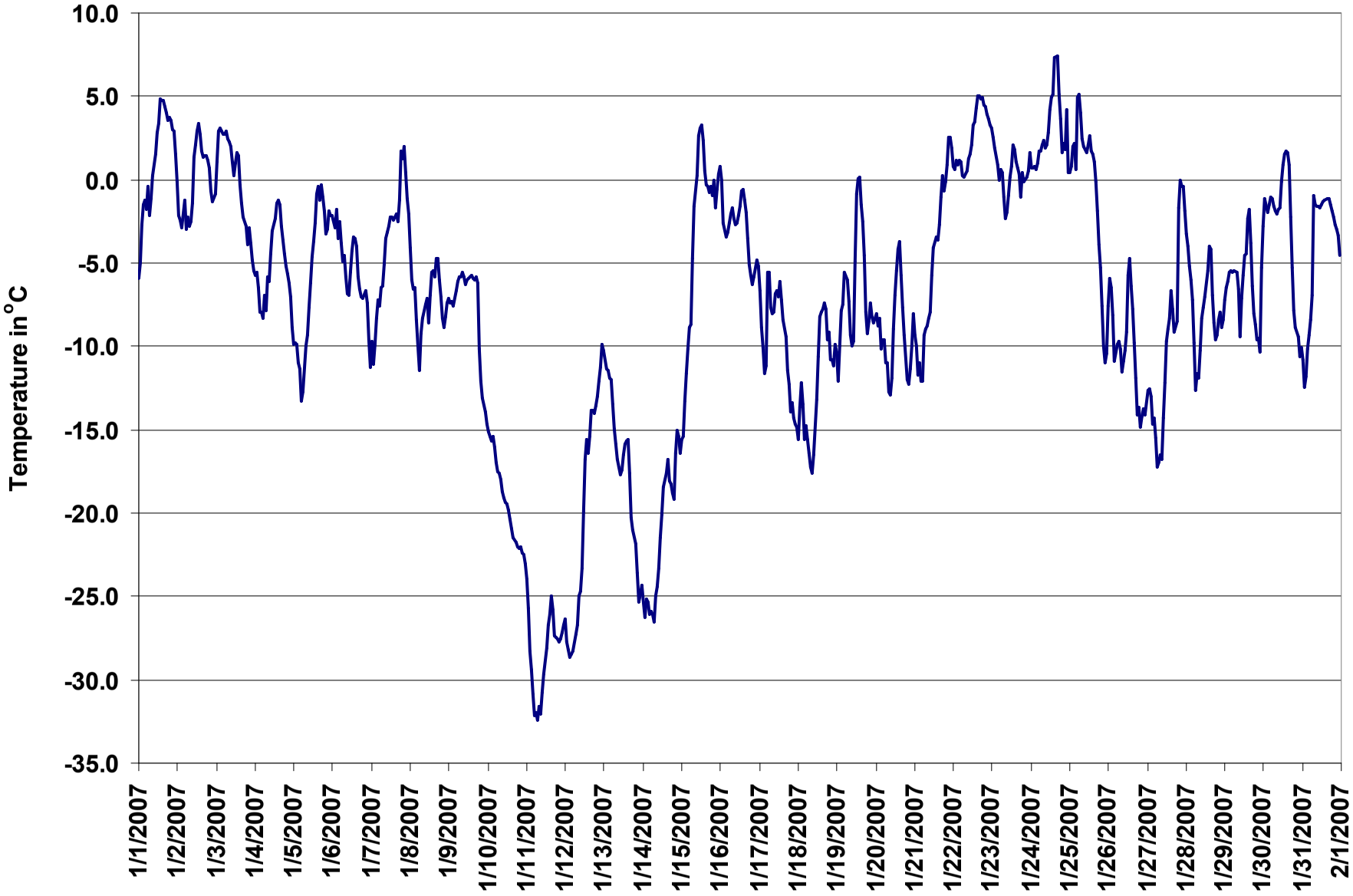


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

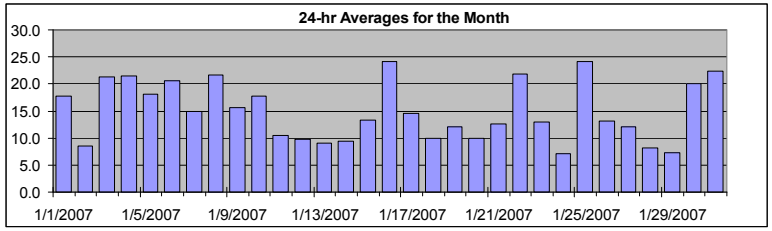
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	49.8	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	24.2	km/hr	25-Jan	

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
	39.9	30.5	19.2	12.9	8.4	4.8	3.4	14.9 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**

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-hr Scalar Average	Daily Max
1-Jan-07	5	15	22	18	11	11	17	12	7	15	12	13	22	26	23	23	33	31	29	30	23	11	8	8	17.7	33.2
2-Jan-07	6	7	5	5	5	4	9	11	10	12	13	10	8	17	9	10	9	6	4	9	8	8	9	12	8.5	16.6
3-Jan-07	22	29	41	42	29	24	28	29	28	27	25	22	18	17	13	13	14	14	9	15	16	15	10	10	21.2	41.7
4-Jan-07	10	14	15	10	9	12	12	15	16	16	27	27	30	28	33	39	29	31	28	28	29	24	21	14	21.5	39.4
5-Jan-07	16	22	19	10	8	11	15	20	18	17	20	23	21	23	25	28	24	27	18	13	9	14	16	15	18.0	27.9
6-Jan-07	17	17	17	17	21	20	20	26	25	25	25	25	31	28	22	19	18	19	19	20	19	17	14	10	20.5	31.5
7-Jan-07	11	8	9	11	6	5	9	8	13	11	5	5	3	3	6	10	8	13	18	19	50	48	39	40	15.0	49.8
8-Jan-07	42	38	31	24	13	17	18	27	33	28	24	18	17	19	19	24	29	25	16	11	12	15	12	8	21.6	41.5
9-Jan-07	7	4	3	10	7	7	8	8	8	10	12	15	15	16	18	19	22	22	25	24	29	29	29	28	15.7	29.4
10-Jan-07	32	33	31	25	21	21	20	21	21	23	23	23	21	18	18	16	11	13	10	8	4	4	5	5	17.8	32.6
11-Jan-07	7	8	8	9	9	12	13	12	12	10	8	10	13	9	16	14	12	10	12	12	11	9	9	10	10.5	15.9
12-Jan-07	9	8	8	8	6	6	7	4	7	10	9	13	14	16	15	15	14	11	11	8	7	6	9	8	9.7	16.0
13-Jan-07	5	5	7	5	13	16	18	15	15	14	14	12	12	10	8	7	8	7	7	5	4	4	5	3	9.1	17.5
14-Jan-07	6	9	10	8	8	9	8	10	9	9	9	9	8	7	8	10	7	10	9	9	14	16	11	10	9.3	15.9
15-Jan-07	6	6	8	12	10	12	9	17	17	21	28	30	28	19	10	10	8	7	10	5	9	6	14	18	13.3	29.7
16-Jan-07	19	23	19	18	18	24	30	35	32	29	28	28	29	28	25	22	23	19	17	19	23	25	24	23	24.1	35.0
17-Jan-07	21	15	15	16	14	13	12	12	12	14	13	12	14	18	18	14	13	14	12	14	15	15	18	15	14.6	21.4
18-Jan-07	14	16	11	8	9	12	14	13	12	11	10	11	10	6	8	7	6	10	11	10	10	7	6	8	10.0	15.5
19-Jan-07	7	6	4	4	9	8	9	12	14	15	17	23	26	25	17	12	15	11	10	8	7	9	8	12	12.0	25.6
20-Jan-07	11	8	9	6	7	9	10	4	4	7	7	8	10	15	16	16	12	12	13	7	9	12	16	12	10.0	16.3
21-Jan-07	12	13	8	5	4	3	6	7	8	9	10	19	22	18	8	17	17	17	12	15	14	21	20	18	12.6	21.6
22-Jan-07	16	13	17	13	17	14	10	7	17	18	19	20	20	20	22	22	29	34	39	33	36	29	31	25	21.8	38.9
23-Jan-07	23	26	25	18	17	18	18	18	14	12	7	4	9	13	13	12	9	7	7	8	8	7	8	9	13.0	25.7
24-Jan-07	7	6	5	5	4	7	7	6	6	8	9	8	13	10	9	6	4	6	6	3	4	11	14	8	7.1	13.6
25-Jan-07	12	14	17	18	20	33	43	36	20	29	30	27	41	37	35	35	25	20	19	16	15	15	12	11	24.2	43.5
26-Jan-07	15	22	15	15	17	17	16	14	17	17	18	16	16	8	12	14	13	10	8	8	7	9	7	7	13.1	21.8
27-Jan-07	8	9	12	12	13	15	14	12	12	14	14	12	10	10	13	9	8	7	8	14	12	15	19	17	12.1	18.7
28-Jan-07	15	16	18	19	10	5	9	7	6	10	9	7	11	7	4	3	3	4	5	6	7	5	3	6	8.1	19.3
29-Jan-07	8	6	3	7	5	11	6	13	8	8	6	7	8	9	4	3	4	8	8	7	7	9	7	14	7.3	14.2
30-Jan-07	18	22	18	19	26	31	32	30	25	22	25	25	23	27	24	21	18	9	11	13	12	6	10	11	20.1	32.1
31-Jan-07	10	9	11	20	18	19	18	37	35	34	20	19	18	22	22	25	27	28	27	27	26	22	19	23	22.3	36.6
1-hr Average	13.5	14.4	14.2	13.4	12.4	13.7	15.1	16.0	15.5	16.3	16.0	16.1	17.4	17.0	16.0	15.9	15.2	14.9	14.1	13.8	14.7	14.3	13.9	13.6		
Hourly Max	41.5	37.7	41.1	41.7	29.2	33.3	43.5	36.6	34.9	33.8	30.3	29.7	41.0	37.1	35.0	39.4	33.2	34.1	38.9	33.5	49.8	47.7	38.9	40.3		

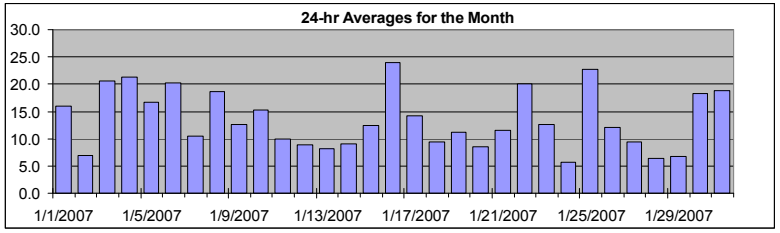
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	49.4	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	24.0	km/hr	16-Jan	

Calm Time:	1 hrs **0%** calms	Operational Time:	743 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	AverageV
	39.3	30.3	19.1	12.7	8.1	3.9	2.0	99.2 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

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-hr Vector Average	Daily Max
1-Jan-07	3	15	22	18	11	10	16	11	7	15	11	13	21	26	23	23	33	31	29	30	23	6	7	8	16.0	33.2
2-Jan-07	4	6	4	4	5	2	8	10	10	12	13	10	8	16	7	10	9	6	3	9	8	7	8	12	6.9	16.2
3-Jan-07	22	28	41	41	29	24	28	29	28	27	25	22	18	17	13	13	14	14	8	15	16	15	10	10	20.7	41.5
4-Jan-07	10	13	15	9	9	11	12	15	16	16	27	27	30	28	33	39	29	30	28	28	29	24	21	13	21.2	39.0
5-Jan-07	16	22	19	10	8	11	14	20	18	17	20	23	21	22	25	28	24	27	18	13	8	14	16	15	16.7	27.8
6-Jan-07	16	17	17	17	20	19	20	26	25	25	24	24	31	28	22	18	18	19	19	20	19	17	14	10	20.2	31.4
7-Jan-07	11	8	8	10	4	5	9	8	13	11	4	5	2	2	5	10	8	13	18	19	49	48	38	40	10.5	49.4
8-Jan-07	41	38	30	23	13	17	18	26	33	28	24	17	16	18	19	24	29	25	16	11	12	15	11	8	18.6	41.3
9-Jan-07	7	4	3	10	7	7	7	8	8	10	12	15	15	16	18	19	22	22	24	24	28	29	29	28	12.6	29.4
10-Jan-07	32	32	30	25	21	21	20	20	21	23	22	23	21	18	18	16	11	13	10	7	4	4	5	3	15.3	32.5
11-Jan-07	7	8	7	9	9	12	12	12	12	10	8	10	13	8	16	14	12	10	12	12	11	9	8	10	9.9	15.8
12-Jan-07	9	8	8	8	6	6	7	4	6	10	9	13	13	16	15	15	14	11	11	8	7	6	9	8	8.9	15.6
13-Jan-07	3	5	7	4	13	16	17	15	14	14	14	12	12	10	8	7	7	7	7	5	4	4	4	3	8.2	17.5
14-Jan-07	6	9	10	8	8	9	8	9	9	9	9	9	8	7	8	10	7	10	9	9	14	16	11	10	9.1	15.9
15-Jan-07	6	6	7	11	9	12	9	16	17	21	28	30	28	19	10	10	7	5	9	5	8	6	14	18	12.5	29.7
16-Jan-07	19	23	19	18	18	23	30	35	32	29	27	28	29	28	25	22	23	19	17	19	23	25	24	23	24.0	35.0
17-Jan-07	21	15	15	16	13	12	12	12	12	14	13	12	14	18	18	14	13	14	12	14	14	15	18	15	14.2	21.4
18-Jan-07	14	15	10	8	9	12	14	13	12	11	10	11	9	5	8	7	5	10	11	10	10	6	5	8	9.5	15.5
19-Jan-07	7	6	3	2	8	8	8	11	14	15	17	23	26	25	15	12	15	11	10	8	6	9	7	12	11.3	25.6
20-Jan-07	11	7	9	5	6	9	8	3	1	7	7	8	9	14	16	16	12	12	13	7	9	12	16	12	8.6	16.3
21-Jan-07	12	13	7	4	4	2	6	7	6	9	9	18	22	18	8	17	17	17	12	14	13	20	19	18	11.6	21.5
22-Jan-07	16	13	17	13	17	14	9	7	17	18	19	20	20	20	22	21	29	34	39	33	36	29	31	25	20.0	38.9
23-Jan-07	23	26	24	17	17	18	18	18	14	11	7	4	9	13	13	12	9	7	7	8	8	7	8	9	12.6	25.6
24-Jan-07	7	5	1	5	3	7	6	6	6	8	9	7	12	9	9	5	3	5	5	1	3	10	14	7	5.7	13.5
25-Jan-07	12	12	17	18	19	33	43	36	20	29	30	26	41	37	35	35	25	20	18	16	15	15	11	11	22.8	43.2
26-Jan-07	15	22	15	15	17	17	16	14	17	17	18	16	16	6	11	13	12	10	6	8	7	9	7	6	12.1	21.6
27-Jan-07	8	9	12	12	13	15	14	11	12	14	14	12	10	10	13	8	8	4	3	13	11	14	19	17	9.3	18.5
28-Jan-07	14	15	18	19	8	4	9	6	5	8	calm	5	11	7	3	2	3	4	5	4	7	5	2	6	6.4	19.2
29-Jan-07	6	4	1	6	4	10	6	13	8	7	5	6	8	8	4	2	4	8	8	7	6	9	6	14	6.7	13.9
30-Jan-07	18	22	18	19	26	31	32	30	25	21	25	25	23	26	24	21	18	6	11	13	11	6	10	11	18.3	32.0
31-Jan-07	10	9	10	20	17	19	18	37	35	34	20	19	18	22	22	25	26	28	26	27	26	22	19	22	18.8	36.5
1-hr Vector	10.3	10.9	10.6	9.4	8.4	9.5	10.6	11.0	10.1	10.1	9.8	9.8	11.2	11.2	11.1	11.4	11.3	11.1	10.2	10.9	12.2	11.3	10.2	10.2		
Hourly Max	41.3	37.5	41.0	41.5	29.0	33.2	43.2	36.5	34.8	33.7	30.2	29.7	40.6	36.9	34.8	39.0	33.2	34.1	38.9	33.5	49.4	47.5	38.3	39.6		

PASZA - Smoky Heights - Wind Direction Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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	
	344.2	310.2	254.7	236.2	205.6	33.6	13.9		248 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 / 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	WD Sector
1-Jan-07	179	187	190	180	179	181	193	236	212	182	192	187	190	197	211	230	231	237	235	237	227	144	146	227	208	SSW
2-Jan-07	148	298	282	176	213	294	235	202	202	185	168	154	163	159	181	200	205	186	257	201	228	211	213	229	199	SSW
3-Jan-07	221	240	255	264	269	258	255	259	262	258	257	257	250	241	240	253	248	249	252	251	232	225	228	217	251	WSW
4-Jan-07	232	243	240	213	185	219	240	245	243	232	233	237	236	238	236	244	247	239	236	236	239	243	245	253	238	WSW
5-Jan-07	234	238	248	231	224	217	196	185	186	171	168	179	180	196	210	214	224	225	235	224	210	207	200	217	208	SSW
6-Jan-07	227	259	259	232	272	251	240	254	259	258	261	250	250	253	255	246	247	240	241	245	247	246	257	237	250	WSW
7-Jan-07	213	223	222	177	220	221	188	166	145	147	68	10	351	331	238	240	260	248	261	259	264	272	289	300	257	WSW
8-Jan-07	308	301	296	281	240	231	221	247	258	257	245	220	205	207	248	255	260	254	234	203	250	259	218	197	255	WSW
9-Jan-07	246	269	16	24	31	123	71	50	44	25	24	26	31	27	35	32	30	34	35	338	332	332	331	331	9	N
10-Jan-07	327	324	327	348	356	354	0	350	5	11	13	17	15	11	30	34	35	22	30	31	45	126	157	202	1	N
11-Jan-07	239	219	225	249	246	257	236	222	232	185	204	182	182	193	239	237	236	242	219	228	233	232	227	211	225	SW
12-Jan-07	183	202	197	182	175	184	203	153	175	185	181	180	188	178	190	184	185	190	213	221	239	245	259	258	195	SSW
13-Jan-07	240	50	55	35	33	36	34	34	21	22	16	20	21	24	15	20	26	12	16	358	346	5	22	237	24	NNE
14-Jan-07	209	222	206	196	202	204	212	214	223	213	215	224	223	223	231	227	213	206	231	225	234	247	230	190	219	SW
15-Jan-07	185	204	212	200	213	192	206	215	219	221	241	239	233	212	163	172	216	204	186	200	182	189	232	232	215	SW
16-Jan-07	249	248	258	256	235	239	236	243	242	237	242	243	242	250	247	234	237	241	245	247	257	258	254	248	245	WSW
17-Jan-07	247	255	263	262	279	307	277	258	259	263	254	249	252	243	235	241	238	252	257	259	259	259	262	262	257	WSW
18-Jan-07	250	252	246	226	237	252	239	232	239	213	207	219	210	237	258	267	269	268	262	265	260	236	206	243	242	WSW
19-Jan-07	249	241	253	308	250	239	206	215	226	236	252	259	266	260	254	237	258	264	250	197	265	278	217	215	247	WSW
20-Jan-07	258	230	191	227	181	189	203	239	96	182	207	190	181	200	238	242	249	267	271	248	247	248	244	238	228	SW
21-Jan-07	196	204	186	204	229	241	257	237	223	189	193	196	208	225	238	217	220	228	183	211	217	254	270	234	220	SW
22-Jan-07	207	186	210	188	192	196	197	177	200	201	203	210	223	231	228	244	250	251	250	250	246	247	244	245	229	SW
23-Jan-07	249	255	258	239	219	226	252	253	265	240	227	225	221	230	236	243	253	235	225	257	257	238	206	225	242	WSW
24-Jan-07	199	155	95	322	261	244	231	220	252	252	238	258	207	240	252	226	214	233	256	226	230	191	168	229	225	SW
25-Jan-07	198	256	237	230	242	257	257	253	257	258	258	259	285	298	294	284	276	267	260	250	239	250	248	262	263	W
26-Jan-07	273	304	292	263	256	255	257	248	265	278	270	286	307	249	253	247	260	261	210	223	246	234	230	222	264	W
27-Jan-07	231	221	224	222	216	222	232	227	209	202	197	219	220	242	251	237	221	341	309	296	312	309	306	279	245	WSW
28-Jan-07	257	264	279	271	271	193	187	195	216	265	22	176	252	239	207	221	239	245	248	193	242	243	213	250	247	WSW
29-Jan-07	192	191	230	201	229	215	219	229	227	247	212	206	228	252	238	306	239	244	230	236	220	252	258	282	233	SW
30-Jan-07	292	304	297	293	302	310	313	311	306	302	286	300	301	310	309	312	312	256	245	253	247	239	251	192	296	WNW
31-Jan-07	228	236	231	252	255	246	228	319	324	324	328	331	317	313	309	305	308	316	318	317	320	327	335	360	308	NW
Hourly Avg	245	254	253	247	247	244	241	249	251	244	243	240	242	243	249	249	251	252	250	250	254	255	253	252		

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

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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
	42.2	22.6	9.6	5.3	3.4	2.1	1.6

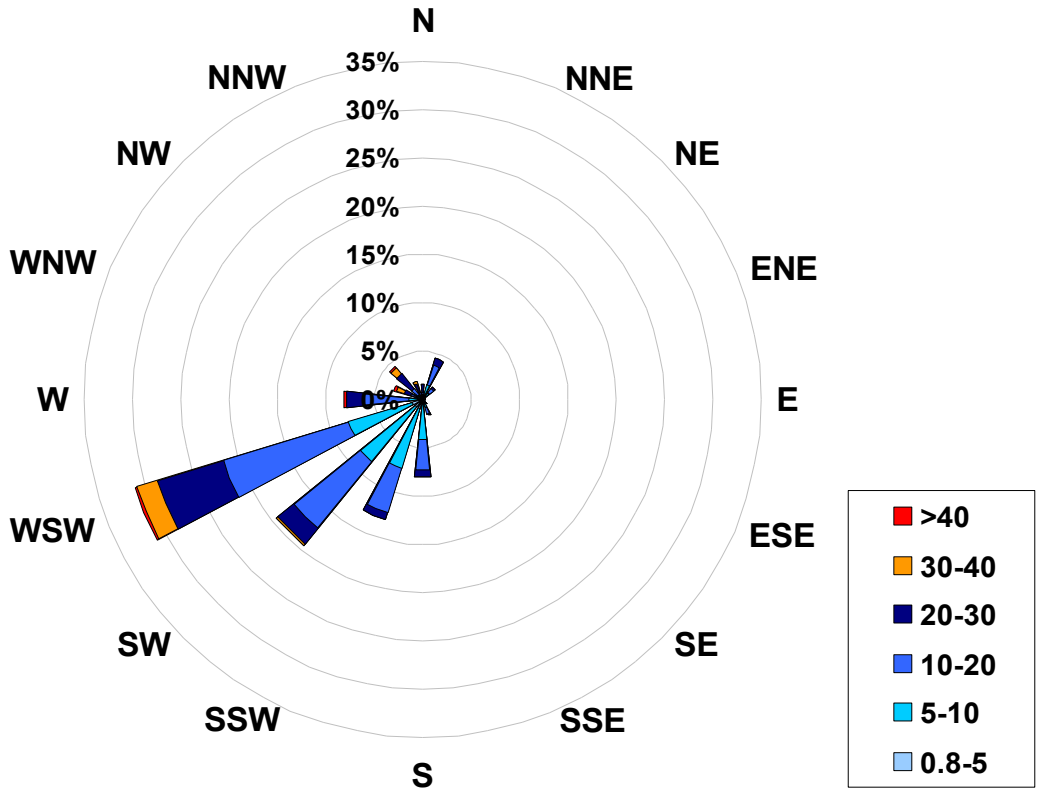
Status Flag Characters

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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	52	6	3	6	6	8	11	8	12	6	17	7	3	2	3	5	2	2	2	2	4	31	23	33	52.2
2-Jan-07	20	16	17	17	29	44	17	10	7	5	4	5	8	8	38	6	7	5	26	10	8	13	13	10	44.3
3-Jan-07	3	3	3	3	3	4	2	3	2	3	3	2	6	3	3	3	3	3	4	4	4	5	4	12	12.0
4-Jan-07	13	3	5	9	6	5	7	6	2	3	3	2	2	2	2	6	4	4	2	2	2	2	3	6	13.2
5-Jan-07	4	2	4	5	11	5	4	3	3	5	3	3	2	3	2	2	3	3	4	5	9	5	3	5	10.7
6-Jan-07	5	4	10	3	6	4	2	2	1	2	2	4	3	2	2	3	2	4	2	1	2	2	2	7	9.6
7-Jan-07	5	8	7	4	34	19	15	5	4	7	16	11	52	17	7	5	12	6	3	5	4	3	5	5	52.1
8-Jan-07	5	6	5	7	4	4	3	3	2	3	3	5	6	5	4	4	2	3	7	8	8	3	8	10	10.1
9-Jan-07	6	16	17	4	7	22	16	4	3	3	3	3	3	3	3	3	3	4	11	5	5	4	3	4	22.2
10-Jan-07	4	4	5	7	8	8	7	6	6	5	5	4	4	6	4	4	5	5	4	6	12	15	7	20	20.3
11-Jan-07	8	6	12	5	9	3	4	4	6	6	7	5	2	13	4	4	5	6	3	3	5	3	6	8	12.9
12-Jan-07	8	9	7	12	8	14	7	26	13	4	3	2	10	12	3	3	3	6	3	6	9	11	5	5	26.4
13-Jan-07	10	15	5	20	5	4	4	4	3	3	2	3	3	4	4	5	7	5	4	10	17	8	14	17	19.7
14-Jan-07	7	5	5	4	3	3	4	4	3	4	5	4	6	8	8	5	6	6	9	8	4	3	11	7	10.6
15-Jan-07	9	14	27	13	12	5	10	9	6	4	4	3	3	5	8	4	11	17	16	29	15	14	4	5	28.7
16-Jan-07	4	3	4	5	7	9	2	2	3	3	4	2	2	3	3	2	2	3	3	4	3	1	2	3	9.0
17-Jan-07	2	3	5	2	8	5	3	6	6	5	4	6	3	3	1	4	3	5	4	2	2	1	2	2	7.6
18-Jan-07	3	2	6	9	5	3	4	4	7	4	5	7	15	19	9	20	17	6	3	3	3	22	19	6	22.2
19-Jan-07	5	13	21	34	17	10	15	9	3	6	8	2	8	3	12	10	7	8	13	7	20	6	11	5	34.1
20-Jan-07	6	13	6	12	22	6	15	42	40	14	14	18	7	6	2	2	2	3	3	13	6	4	3	3	41.7
21-Jan-07	7	6	19	20	15	33	12	10	19	13	14	6	3	6	10	8	5	6	15	5	13	5	3	3	33.1
22-Jan-07	3	5	3	6	5	4	5	10	5	2	2	4	4	4	4	6	2	2	2	2	2	3	2	3	9.8
23-Jan-07	2	3	2	5	3	4	4	2	7	4	15	21	7	4	4	4	15	8	8	7	4	5	6	6	20.7
24-Jan-07	11	12	32	12	21	11	16	19	15	15	12	12	11	10	10	17	17	29	28	53	27	9	4	18	52.6
25-Jan-07	8	15	10	5	5	3	4	4	5	6	3	5	6	5	4	4	4	10	3	5	4	3	10	10	14.7
26-Jan-07	3	7	7	3	2	3	3	4	4	2	4	5	7	49	7	15	8	6	17	4	8	5	9	10	48.6
27-Jan-07	10	8	9	6	3	4	3	8	6	4	3	6	6	9	3	7	10	28	43	9	12	6	5	4	42.5
28-Jan-07	9	4	3	2	29	23	6	19	20	13	30	12	5	17	20	24	44	8	23	25	6	13	29	8	44.0
29-Jan-07	11	14	51	15	21	14	14	4	7	7	39	26	11	9	21	23	18	6	5	18	22	17	18	11	51.1
30-Jan-07	4	3	3	3	3	3	3	4	5	5	3	7	9	6	6	5	5	26	15	6	10	20	6	8	26.4
31-Jan-07	5	6	8	3	3	3	11	4	4	4	8	8	7	6	6	6	7	6	6	5	5	5	6	8	11.2
Hourly Max	52	16	51	34	34	44	17	42	40	15	39	26	52	49	38	24	44	29	43	53	27	31	29	33	

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



Calms:	**0%**

Frequency Distribution of Wind in km/hr			
Range			**Frequency (hrs)**
0.8	<	5	46
5	to	10	217
10	to	20	306
20	to	30	135
30	to	40	32
	>	40	8
Total Non-Zero Values			744

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: January 1, 2007 to February 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:	688
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-Jan-07	20	20	20	20	N	20	20	20	19	19	19	19	18	19	19	19	18	18	17	17	17	16	16	17
2-Jan-07	17	17	18	17	N	17	17	17	17	17	16	16	15	15	15	16	15	9	9	10	11	14	15	19
3-Jan-07	20	19	19	19	N	20	19	19	19	18	18	17	17	18	19	17	16	17	17	17	16	17	15	17
4-Jan-07	17	17	17	17	N	16	14	8	15	16	17	18	19	19	19	19	19	18	18	18	18	17	17	18
5-Jan-07	18	17	18	19	N	18	17	15	15	15	16	18	19	N	18	17	16	15	17	16	17	17	16	16
6-Jan-07	15	16	17	18	N	19	19	19	20	20	19	19	19	19	19	18	18	18	17	17	16	17	17	18
7-Jan-07	17	16	15	16	N	18	18	N	17	17	16	16	16	18	18	18	17	15	17	18	18	19	19	16
8-Jan-07	18	17	17	16	N	18	18	18	18	18	17	17	18	18	18	18	15	17	15	16	16	14	12	15
9-Jan-07	17	17	15	14	N	16	16	16	15	14	13	11	16	16	16	16	12	12	12	N	N	N	N	N
10-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	14	14	14	14	13	13	13	12	12	12
11-Jan-07	10	12	11	7	N	10	10	10	10	11	11	10	7	10	7	7	6	7	8	13	15	16	17	16
12-Jan-07	18	17	18	17	N	16	17	18	17	15	16	16	16	N	N	N	16	17	16	15	17	18	18	19
13-Jan-07	18	18	10	16	N	17	17	15	15	15	15	15	15	15	14	13	13	13	11	11	11	11	11	10
14-Jan-07	10	11	10	7	N	9	9	9	7	6	9	8	10	12	11	10	9	9	13	16	15	17	18	19
15-Jan-07	18	18	18	19	N	18	17	16	16	15	17	16	18	17	18	15	16	17	18	19	19	19	19	19
16-Jan-07	19	19	19	19	N	18	18	18	18	18	18	18	19	19	19	19	19	18	18	18	18	18	17	16
17-Jan-07	17	16	15	16	N	14	15	16	15	12	13	13	15	14	14	15	17	16	15	15	15	15	12	14
18-Jan-07	13	13	14	14	N	15	16	13	10	17	18	18	18	19	18	17	16	17	18	18	18	17	17	14
19-Jan-07	14	16	14	10	N	6	8	6	9	15	16	17	17	17	17	18	17	16	17	15	15	16	16	16
20-Jan-07	16	16	17	17	N	14	15	14	13	13	14	15	14	15	15	17	17	16	15	16	16	16	16	16
21-Jan-07	16	17	17	17	N	16	16	16	15	13	14	14	14	17	17	18	17	17	16	15	17	17	16	16
22-Jan-07	16	16	15	15	N	15	13	14	15	14	14	14	16	17	17	17	18	18	19	19	19	20	20	20
23-Jan-07	20	19	19	19	N	20	18	16	16	16	16	16	15	16	15	15	16	17	13	13	13	11	13	14
24-Jan-07	12	10	12	10	N	8	6	5	6	5	5	7	9	14	13	18	16	20	21	21	20	20	20	19
25-Jan-07	21	21	22	22	N	20	19	20	20	21	21	20	21	20	20	19	19	18	18	19	19	18	18	18
26-Jan-07	18	18	18	18	N	18	18	18	18	17	18	14	17	15	16	15	16	N	19	N	2	1	14	13
27-Jan-07	14	12	11	12	N	12	11	11	11	13	17	14	13	15	18	21	21	20	20	20	20	19	20	18
28-Jan-07	19	19	19	19	N	19	18	18	14	17	16	16	16	19	17	16	16	15	15	18	17	14	14	15
29-Jan-07	15	15	13	14	N	10	9	6	6	12	14	16	17	16	15	14	14	17	19	14	15	18	18	18
30-Jan-07	18	18	18	19	N	18	18	18	17	17	17	18	18	18	19	19	19	14	19	18	16	13	15	16
31-Jan-07	16	15	15	15	N	18	19	19	19	19	19	20	20	20	20	20	20	20	19	19	18	18	18	18

PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

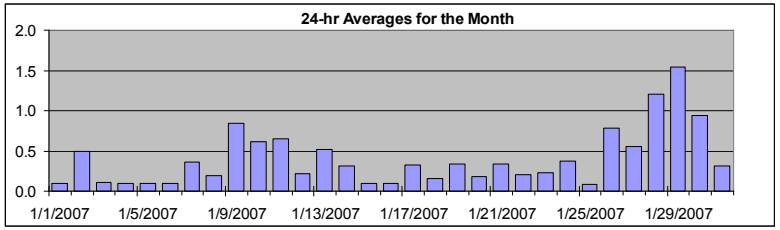
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	3.3	ppb	2-Jan	13:00 14:00
Maximum 24-hr Average:	1.5	ppb	29-Jan	



AIC Time:			32 hrs		Operational Time:				710 hrs	
Calibration Time:			2 hrs		AMD Operational Uptime:				100.0%	
Percentile	99	95	75	50	25	5	1		Average	Median
	2.3	1.3	0.5	0.2	0.1	0.0	0.0		0.4 ppb	0.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
2-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	1	3	2	1	0	1	1	0	0	0	0	0	0.5	3.3
3-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
4-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
5-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Jan-07	0	0	0	0	A	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0.4	3.0
8-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.5
9-Jan-07	1	1	2	1	A	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0.8	2.2
10-Jan-07	1	1	1	1	A	1	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	0.6	1.3
11-Jan-07	0	0	1	1	A	0	0	0	0	0	0	1	1	2	2	1	1	1	0	0	0	0	0	0	0.6	2.3
12-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.5
13-Jan-07	0	0	0	0	A	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0.5	1.4
14-Jan-07	0	0	0	0	A	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
15-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
16-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Jan-07	0	1	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	0.6
18-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
19-Jan-07	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
20-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
21-Jan-07	0	0	0	0	A	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	0	0.3	1.3
22-Jan-07	0	0	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
23-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0.2	1.0
24-Jan-07	0	0	0	0	A	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
25-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
26-Jan-07	0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	A	1	1	2	1	0.8	1.7
27-Jan-07	1	1	1	1	A	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0.6	1.0
28-Jan-07	1	1	1	1	A	1	2	2	1	1	1	1	0	1	1	1	1	2	1	2	2	2	1	1	1.2	2.0
29-Jan-07	2	1	1	2	A	1	1	1	1	1	1	2	3	3	3	3	3	2	1	1	1	1	1	1	1.5	3.0
30-Jan-07	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
31-Jan-07	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
Hourly Avg	0.4	0.4	0.4	0.4	N	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3		
Hourly Max	1.5	1.3	2.2	1.6	0.0	1.5	1.8	1.8	1.5	1.2	1.4	3.0	3.0	3.3	2.9	2.6	2.7	2.0	1.3	1.8	1.8	1.8	1.7	1.3		

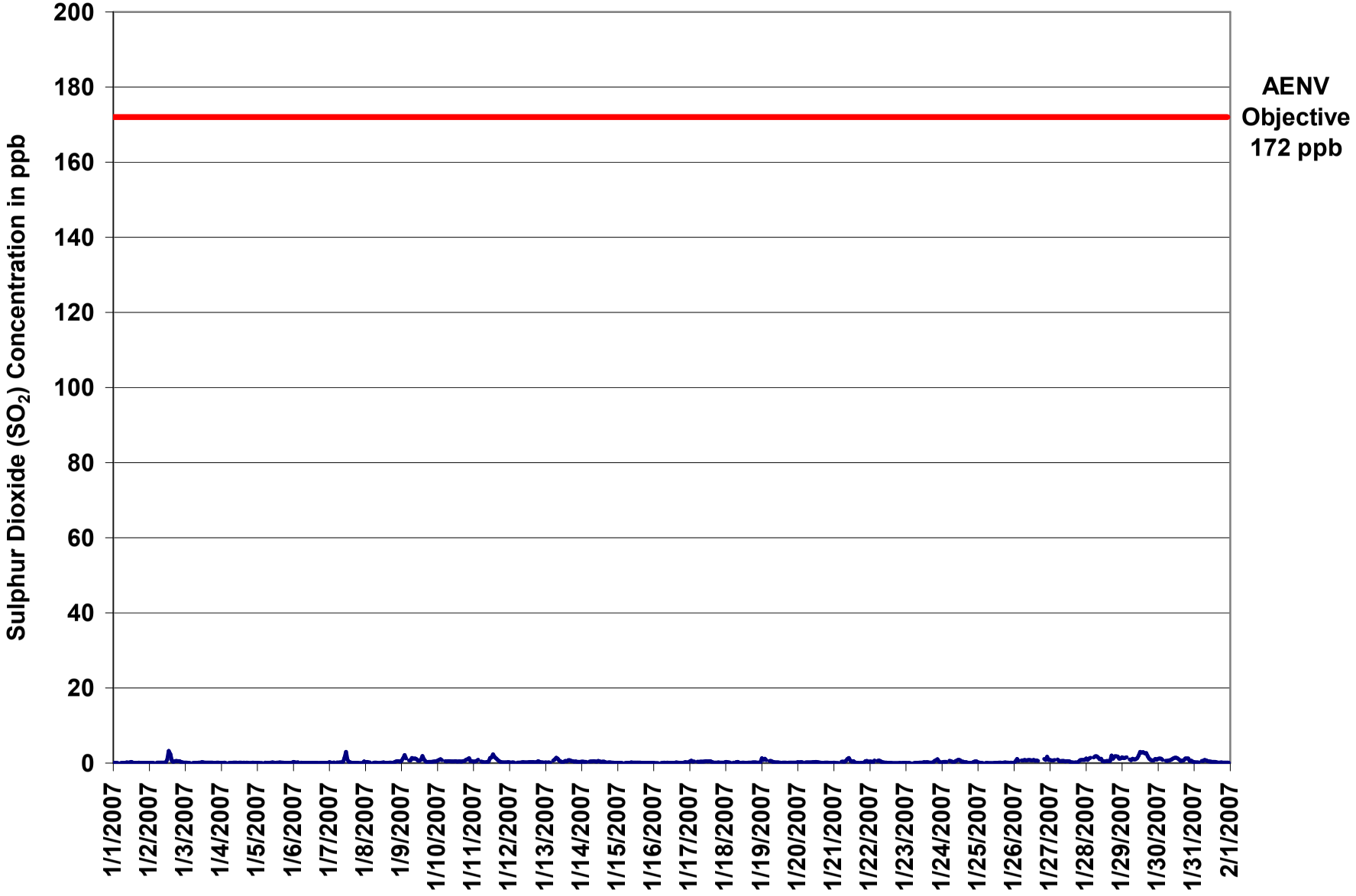


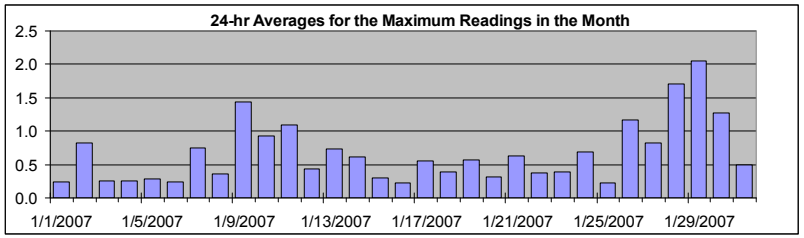
Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	5.3	ppb	9-Jan	1:00 2:00
Maximum 24-hr Value:	2.1	ppb	29-Jan	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.5	2.0	0.8	0.4	0.2	0.2	0.1	0.7 ppb	0.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	2	5	4	1	0	1	1	1	1	1	0	0	0.8	4.7
3-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
4-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
5-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.3	0.9
6-Jan-07	1	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
7-Jan-07	0	0	0	0	A	1	0	0	0	1	3	5	2	1	0	0	0	0	0	0	0	0	0	1	0.7	4.9
8-Jan-07	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.4	0.7
9-Jan-07	1	5	4	1	A	1	2	2	2	1	1	1	1	1	3	2	1	0	0	1	0	0	1	1	1.4	5.3
10-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	2	3	1	1	0.9	2.6
11-Jan-07	0	1	1	2	A	1	0	1	0	0	1	4	3	3	2	2	1	1	1	0	0	0	0	0	1.1	4.0
12-Jan-07	0	0	0	0	A	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0.4	1.4
13-Jan-07	0	0	0	0	A	1	1	2	2	1	1	0	1	1	1	1	1	1	1	0	1	0	0	0	0.7	1.7
14-Jan-07	1	1	0	1	A	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0.6	1.7
15-Jan-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.3	1.8
16-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
17-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.5
18-Jan-07	0	0	0	0	A	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.6
19-Jan-07	2	1	2	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.0
20-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
21-Jan-07	0	0	0	0	A	1	1	1	1	2	2	1	1	1	1	0	0	0	0	0	0	1	1	1	0.6	2.3
22-Jan-07	1	0	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1
23-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0.4	1.3
24-Jan-07	0	0	0	1	A	1	1	0	0	1	2	1	1	1	2	0	1	0	0	0	0	1	1	1	0.7	1.6
25-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
26-Jan-07	0	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	A	2	2	3	1	1.2	2.8
27-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0.8	1.2
28-Jan-07	2	1	2	2	A	2	2	2	2	1	1	1	1	1	1	1	1	4	2	2	3	3	1	2	1.7	4.5
29-Jan-07	2	2	2	2	A	1	1	2	2	1	2	3	3	3	3	3	3	3	2	1	1	1	2	1	2.1	3.4
30-Jan-07	2	2	2	1	A	1	1	1	1	1	2	2	2	2	2	1	1	1	2	2	2	1	1	1	1.3	2.0
31-Jan-07	0	0	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2
Hourly Avg	0.6	0.7	0.7	0.7	N	0.6	0.6	0.7	0.7	0.7	0.7	0.9	0.8	0.9	0.9	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.5	0.5		
Hourly Max	1.9	5.3	4.5	1.8	0.0	1.8	2.1	2.1	2.2	2.3	2.7	4.9	3.2	4.7	3.7	3.2	3.1	4.5	2.2	2.3	2.5	2.9	2.8	1.9		

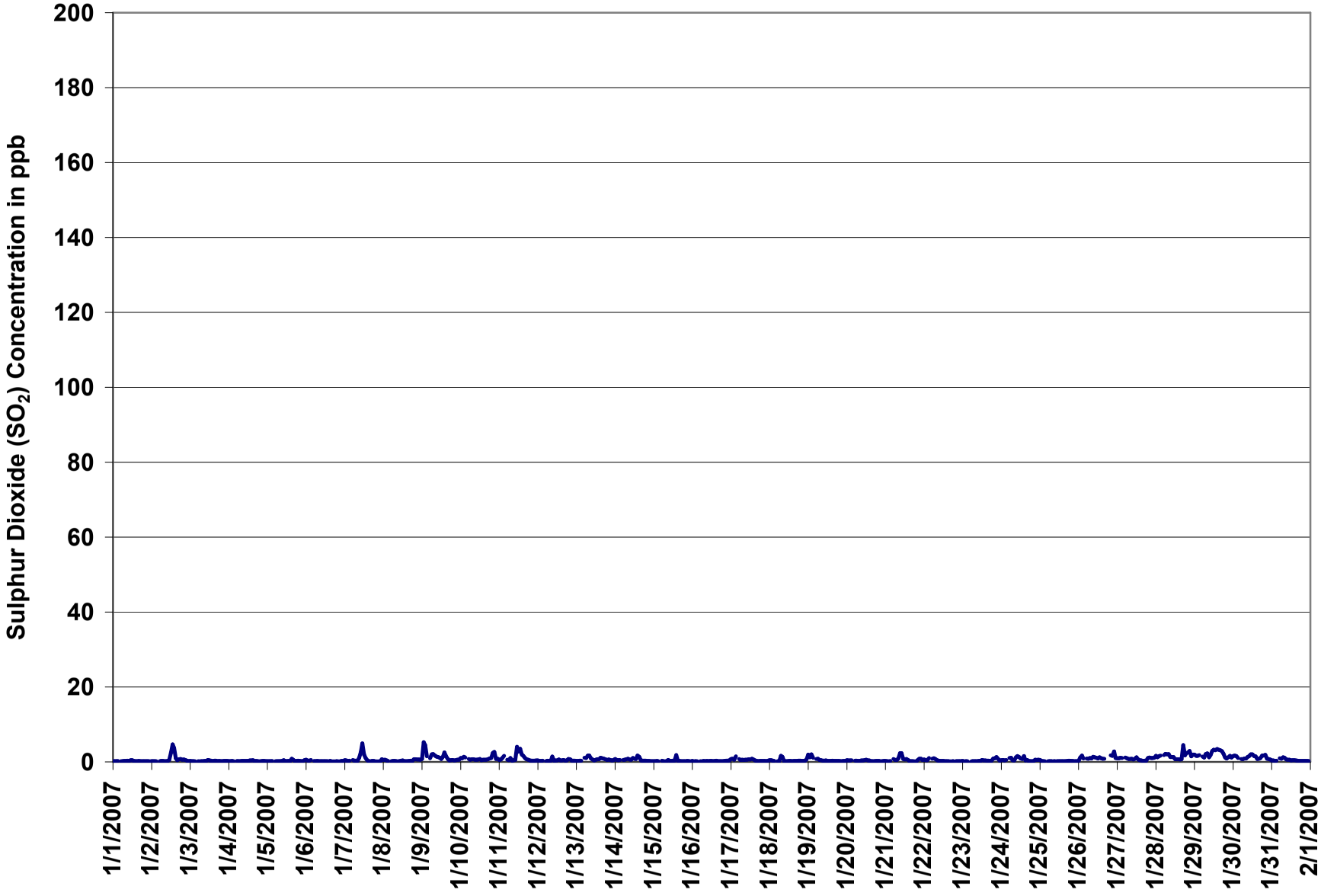
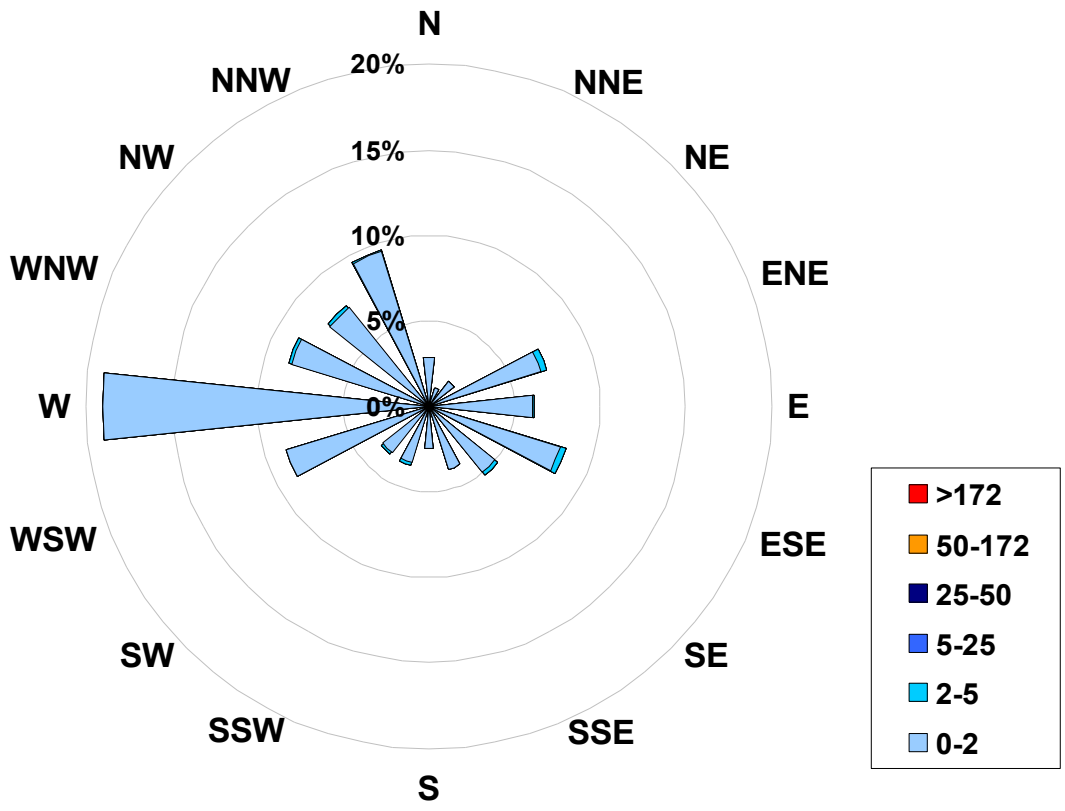


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	**1%**

Frequency Distribution of SO_2 in ppb			
Range			**Frequency (hrs)**
0.0	<	2	699
2	to	5	11
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			710

PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

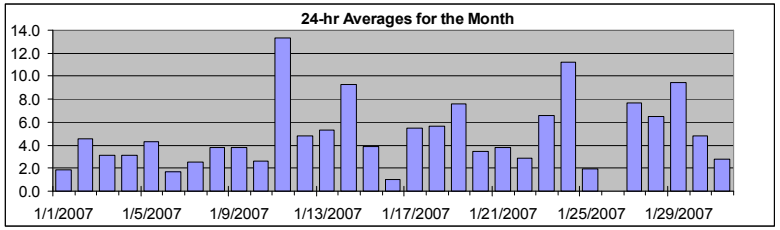
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	32.1	ppb	19-Jan	6:00 7:00
Maximum 24-hr Average:	13.3	ppb	11-Jan	



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
	24.7	13.7	6.8	3.6	1.7	0.6	0.1	5.0 ppb	3.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	1	1	1	1	A	1	1	2	3	2	3	4	4	2	1	1	1	1	2	2	3	3	3	2	1.9	3.9
2-Jan-07	2	1	1	2	A	1	1	2	3	2	4	4	5	5	4	4	5	14	14	10	9	5	7	1	4.5	14.2
3-Jan-07	0	0	0	0	A	0	0	1	1	2	3	5	5	3	3	6	7	5	6	4	6	4	7	3	3.1	7.2
4-Jan-07	4	3	2	4	A	3	7	18	6	3	3	1	2	2	1	2	1	2	1	1	1	3	2	1	3.2	18.4
5-Jan-07	1	2	2	0	A	3	5	7	9	8	7	4	2	3	3	5	7	7	4	5	2	2	4	4	4.3	9.5
6-Jan-07	6	4	2	1	A	1	1	1	1	1	1	1	1	1	0	1	1	2	2	2	4	2	2	2	1.6	5.9
7-Jan-07	3	4	6	4	A	2	2	2	4	3	5	5	5	1	0	1	2	5	1	0	0	0	0	1	2.5	5.6
8-Jan-07	1	1	2	4	A	2	1	1	1	1	3	3	2	1	1	2	10	5	7	6	4	10	12	6	3.8	11.9
9-Jan-07	3	2	5	7	A	3	4	4	6	7	9	13	3	3	3	3	2	2	2	1	1	1	1	1	3.8	12.6
10-Jan-07	1	1	1	1	A	1	1	2	2	2	2	2	1	1	2	2	2	3	4	4	5	7	7	5	2.6	7.4
11-Jan-07	10	5	8	20	A	9	9	9	8	6	4	17	22	29	24	24	26	30	18	10	5	4	4	6	13.3	29.9
12-Jan-07	3	4	2	4	A	8	3	2	4	7	5	4	5	7	5	5	5	4	7	11	5	4	3	2	4.8	10.8
13-Jan-07	2	4	22	5	A	1	2	3	3	2	1	1	2	2	3	6	6	6	8	8	9	8	8	9	5.3	21.7
14-Jan-07	9	8	10	14	A	9	8	10	14	14	10	12	7	7	10	14	14	16	8	5	8	4	1	1	9.2	15.8
15-Jan-07	1	1	1	1	A	2	4	6	6	8	5	7	3	6	7	10	7	6	4	1	1	1	1	1	3.9	9.7
16-Jan-07	0	0	0	0	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	3	4	1.0	3.8
17-Jan-07	2	2	3	2	A	5	3	3	5	11	8	8	4	8	7	6	3	4	7	6	5	5	10	8	5.5	11.0
18-Jan-07	8	8	6	6	A	4	4	13	19	3	1	2	3	2	3	5	8	5	4	2	4	4	4	10	5.6	19.5
19-Jan-07	7	4	8	15	A	27	32	25	14	3	1	1	1	2	2	1	3	4	3	6	5	4	4	3	7.6	32.1
20-Jan-07	3	4	2	1	A	5	4	5	7	6	4	4	4	4	3	1	2	4	5	3	2	3	3	4	3.5	6.5
21-Jan-07	3	2	1	1	A	2	3	4	7	9	6	8	8	4	3	1	2	2	3	6	3	2	2	3	3.8	8.7
22-Jan-07	3	2	4	4	A	3	6	6	5	8	7	7	4	1	1	1	1	1	1	1	1	1	1	0	2.9	7.6
23-Jan-07	0	0	0	0	A	1	4	7	6	6	6	7	10	7	10	9	6	6	12	12	11	14	8	8	6.6	13.9
24-Jan-07	11	14	9	10	A	11	15	21	26	21	16	15	11	5	11	6	11	7	5	5	7	7	6	7	11.2	25.6
25-Jan-07	4	3	1	0	A	0	1	1	1	1	0	0	1	1	1	3	3	4	3	3	2	3	3	3	1.9	4.4
26-Jan-07	2	2	2	2	A	2	3	3	4	5	4	10	C	C	C	C	C	A	3	6	8	4	11	11	N	11.5
27-Jan-07	10	13	14	11	A	10	11	11	13	10	8	10	12	10	8	2	2	4	2	3	2	3	3	5	7.7	14.0
28-Jan-07	3	3	3	2	A	3	4	4	12	5	8	6	6	4	6	7	9	12	11	4	6	13	11	9	6.5	12.6
29-Jan-07	9	8	11	9	A	15	15	25	23	11	8	5	3	5	8	10	11	6	5	12	9	5	4	3	9.4	24.7
30-Jan-07	3	3	2	2	A	2	3	3	4	4	3	3	2	4	3	4	5	15	4	4	10	13	8	6	4.8	15.0
31-Jan-07	5	7	7	6	A	4	3	2	3	3	2	1	2	1	1	2	2	1	2	1	3	3	2	2	2.8	6.6
Hourly Avg	3.9	3.8	4.4	4.5	N	4.6	5.2	6.6	7.1	5.7	4.9	5.5	4.6	4.4	4.6	4.8	5.5	6.2	5.1	4.7	4.6	4.5	4.7	4.2		
Hourly Max	11.2	13.7	21.7	19.8	0.0	26.6	32.1	25.3	25.6	21.3	16.4	16.5	22.3	29.2	24.3	23.8	26.5	29.9	17.8	12.2	11.0	13.9	11.9	11.5		

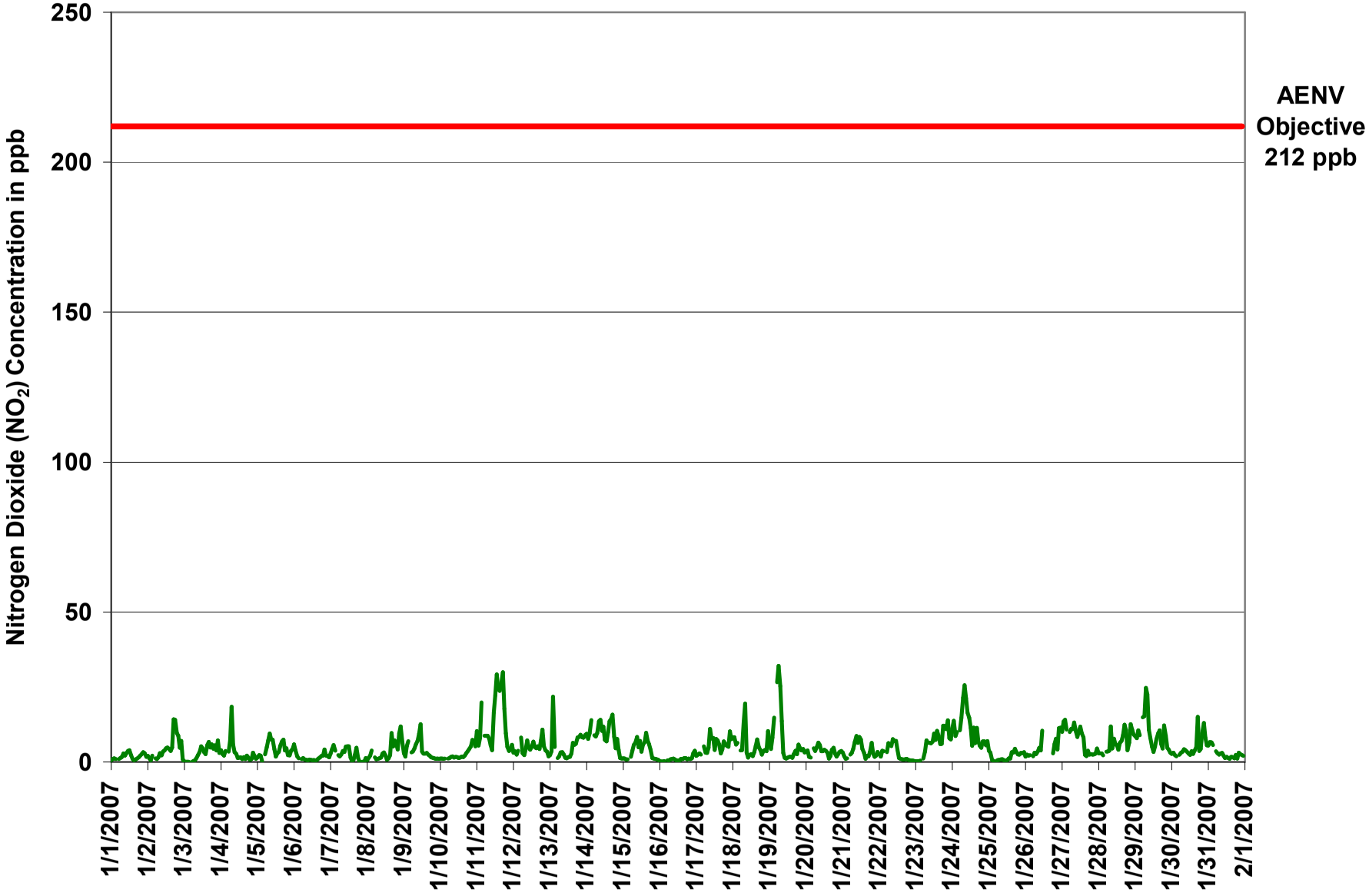


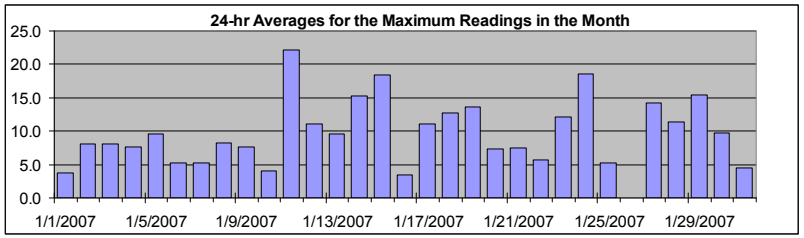
Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	190.5	ppb	15-Jan	14:00 15:00
Maximum 24-hr Value:	22.1	ppb	11-Jan	

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
	40.1	28.6	12.2	7.0	4.0	2.0	1.3	9.9 ppb	7.0 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	2	2	2	2	A	1	2	4	6	4	4	5	6	5	3	2	3	3	4	4	7	6	4	4	3.7	6.7
2-Jan-07	7	3	1	4	A	2	2	3	5	4	7	5	12	7	6	6	10	18	24	12	10	10	26	2	8.0	25.6
3-Jan-07	2	1	2	1	A	2	3	3	5	5	10	20	13	8	6	12	15	18	17	10	8	7	16	5	8.1	20.0
4-Jan-07	7	4	3	5	A	5	21	24	19	9	9	4	4	4	4	5	4	6	5	4	4	15	7	3	7.6	23.6
5-Jan-07	5	11	12	2	A	7	7	12	15	14	11	9	4	6	7	29	12	11	8	9	3	5	9	13	9.6	29.4
6-Jan-07	19	6	13	2	A	4	4	3	3	3	2	4	3	2	2	2	3	5	7	9	12	5	3	3	5.2	18.8
7-Jan-07	5	8	7	5	A	4	3	5	7	5	7	9	17	4	1	2	10	9	4	2	0	1	1	2	5.2	17.0
8-Jan-07	2	4	5	16	A	3	2	4	4	8	6	5	6	3	6	6	22	12	16	15	6	14	16	10	8.3	21.9
9-Jan-07	6	3	9	11	A	4	6	7	8	9	29	31	6	4	4	20	3	3	2	2	2	1	2	1	7.6	30.5
10-Jan-07	1	2	1	1	A	2	2	2	3	2	2	3	2	3	3	2	3	4	6	8	10	10	8	10	4.0	10.0
11-Jan-07	18	9	20	48	A	12	11	23	12	9	5	60	40	39	28	29	31	35	27	17	8	5	8	15	22.1	59.8
12-Jan-07	7	8	4	8	A	19	8	7	7	37	8	10	9	26	12	7	13	6	14	18	12	6	6	3	11.1	36.5
13-Jan-07	3	5	38	25	A	2	3	10	8	4	3	2	5	4	6	10	9	9	14	12	11	11	13	12	9.6	37.9
14-Jan-07	14	13	12	21	A	15	11	13	19	19	13	24	10	16	24	30	21	19	13	7	19	9	4	4	15.2	30.1
15-Jan-07	5	4	4	4	A	4	10	14	16	32	13	23	9	15	190	14	12	14	10	5	7	6	7	6	18.4	190.5
16-Jan-07	1	1	1	2	A	3	3	2	4	3	3	2	5	3	5	3	6	4	3	4	4	4	9	5	3.5	8.6
17-Jan-07	5	5	7	4	A	8	5	9	19	28	12	12	11	14	14	12	9	9	19	14	8	7	13	10	11.1	28.4
18-Jan-07	9	9	8	9	A	5	7	51	48	9	4	4	11	4	8	13	12	7	13	4	10	7	6	33	12.7	50.6
19-Jan-07	10	6	38	21	A	35	36	30	22	8	4	4	5	6	5	4	7	11	9	17	13	5	10	11	13.6	38.0
20-Jan-07	10	9	4	3	A	6	12	7	9	7	6	4	7	6	8	3	5	11	10	10	5	8	8	9	7.3	12.0
21-Jan-07	5	4	2	2	A	5	5	9	9	14	8	15	12	6	10	5	5	5	9	15	7	6	6	9	7.5	14.9
22-Jan-07	5	4	5	4	A	5	12	9	8	13	10	9	10	3	3	5	4	3	6	3	2	3	2	3	5.7	13.2
23-Jan-07	2	3	2	2	A	3	9	14	13	15	16	10	20	11	18	12	11	8	23	19	16	17	13	22	12.2	22.9
24-Jan-07	34	36	11	13	A	14	24	30	28	28	30	24	14	11	32	13	16	13	9	9	11	11	6	11	18.5	35.5
25-Jan-07	5	9	3	2	A	3	4	2	4	7	2	1	2	4	4	8	9	10	9	6	6	8	5	4	5.2	10.4
26-Jan-07	3	4	3	7	A	3	6	4	7	8	6	20	C	C	C	C	C	A	23	17	18	6	18	18	N	23.2
27-Jan-07	16	29	21	12	A	27	27	21	21	14	12	19	26	16	12	5	5	10	10	5	4	4	5	6	14.2	28.6
28-Jan-07	3	3	3	3	A	4	5	6	34	7	12	7	10	7	12	10	16	31	29	6	10	18	15	11	11.4	33.8
29-Jan-07	12	11	14	11	A	27	21	43	48	15	11	7	4	9	16	13	13	8	15	30	14	7	5	4	15.4	48.1
30-Jan-07	4	4	4	2	A	3	5	5	7	5	5	4	5	5	5	7	9	34	8	16	38	24	11	14	9.7	38.4
31-Jan-07	6	8	8	7	A	8	4	4	4	5	4	5	4	2	2	3	4	2	5	2	5	5	5	4	4.5	7.9
Hourly Avg	7.4	7.3	8.7	8.4	N	7.9	9.0	12.2	13.6	11.3	8.9	11.6	9.7	8.5	15.3	9.8	10.1	11.3	11.9	10.0	9.4	8.1	8.6	8.6		
Hourly Max	33.9	35.5	38.0	47.9	0.0	35.2	35.6	50.6	48.1	36.5	30.2	59.8	40.2	38.6	190.5	30.1	31.0	34.6	28.9	29.8	38.4	24.5	25.6	32.6		

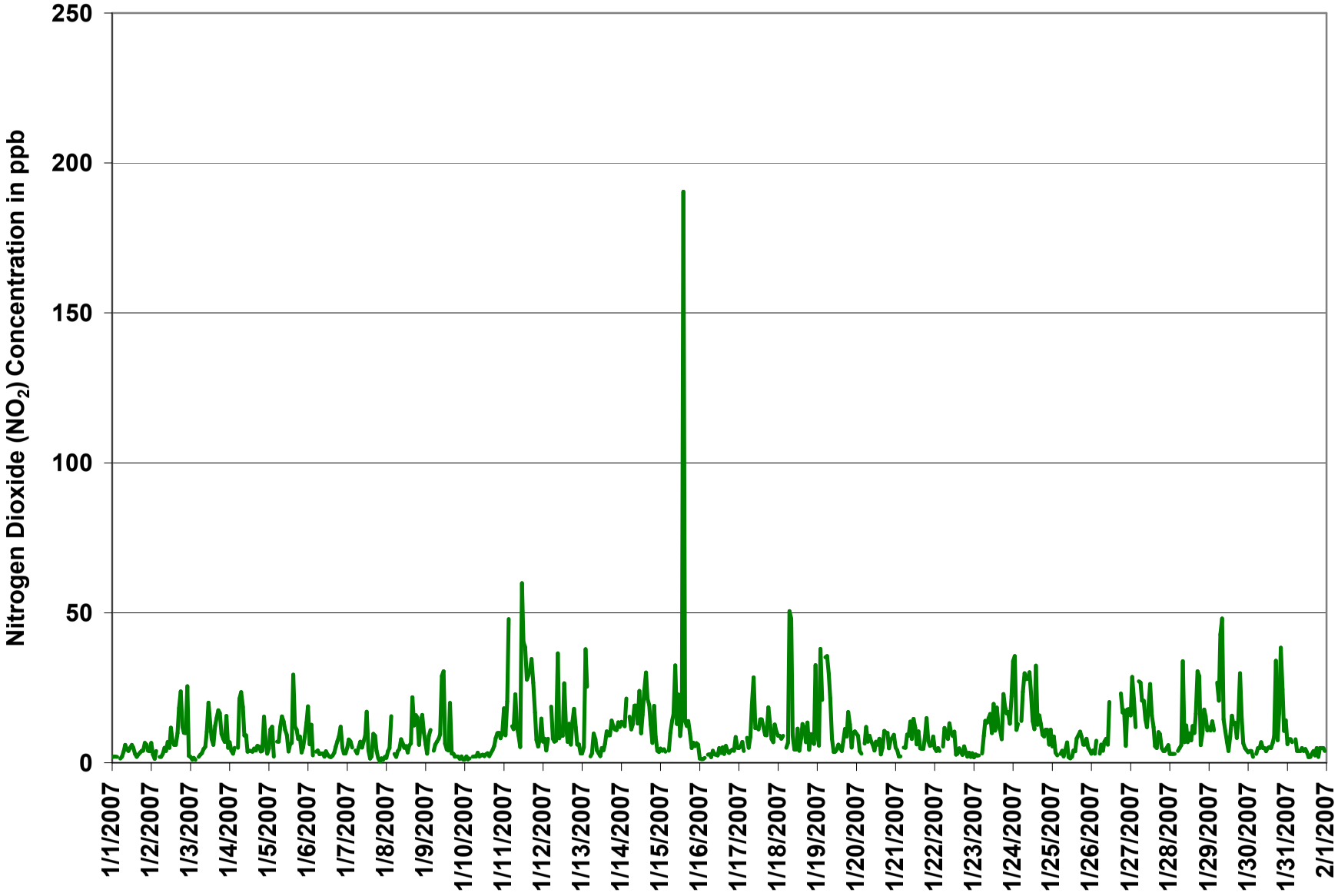
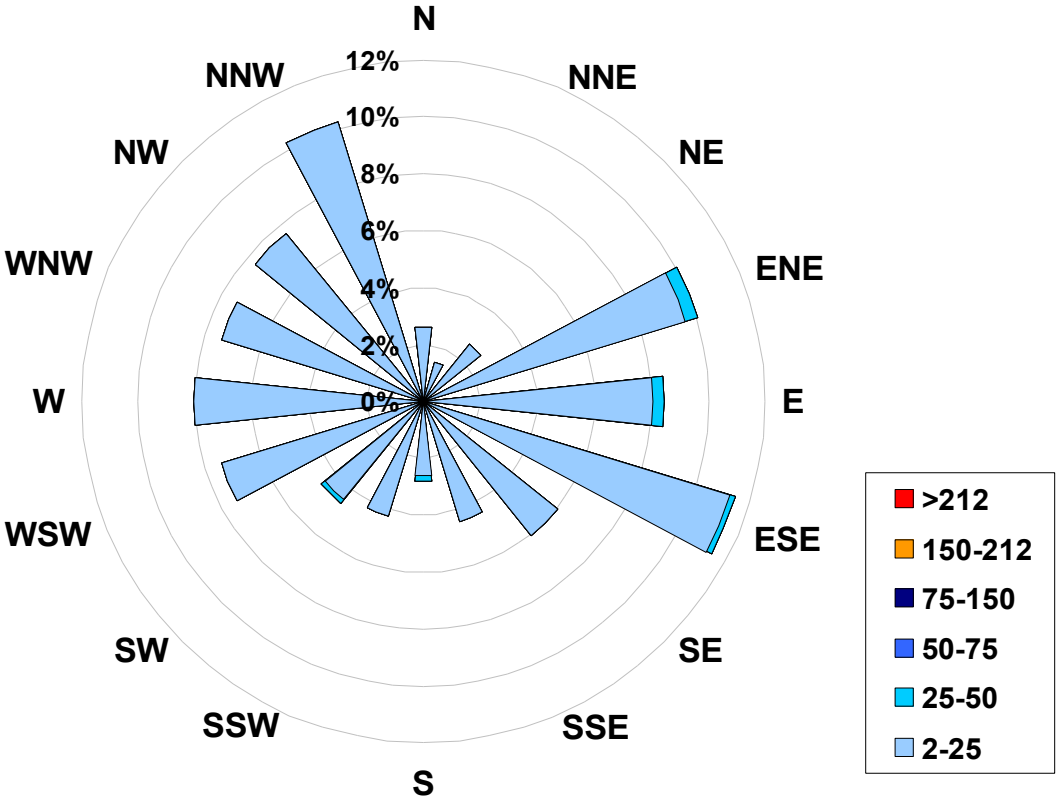


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	1%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	702
25	to	50	4
50	to	75	1
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			707

PASZA - Beaverlodge - Nitric Oxide Monthly Summary

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

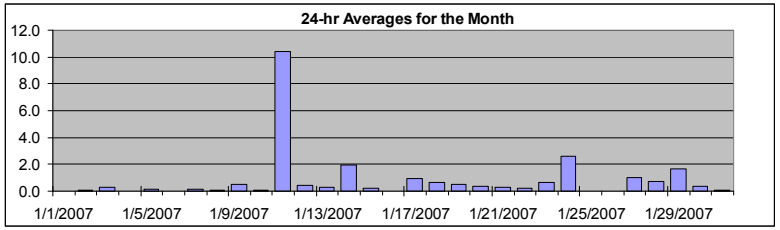
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	67.9	ppb	11-Jan	13:00 14:00
Maximum 24-hr Average:	10.4	ppb	11-Jan	



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
	12.8	3.6	0.1	0.0	0.0	0.0	0.0	0.8 ppb	0.0 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
2-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
3-Jan-07	0	0	0	0	A	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0.3	1.9
4-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
5-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0.2	1.0
6-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
7-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0.1	1.6
8-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
9-Jan-07	0	0	0	0	A	0	0	0	0	0	3	6	1	0	0	1	0	0	0	0	0	0	0	0	0.5	6.1
10-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.7
11-Jan-07	0	0	0	5	A	0	0	1	0	0	1	35	39	68	43	28	14	5	0	0	0	0	0	0	10.4	67.9
12-Jan-07	0	0	0	0	A	0	0	0	0	1	1	1	2	3	2	1	0	0	0	0	0	0	0	0	0.5	3.2
13-Jan-07	0	0	1	0	A	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0.3	2.3
14-Jan-07	0	0	0	0	A	0	0	0	0	2	4	10	6	6	8	8	2	0	0	0	0	0	0	0	2.0	9.9
15-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0.2	1.1
16-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
17-Jan-07	0	0	0	0	A	0	0	0	0	0	2	4	2	6	4	2	0	0	0	0	0	0	0	0	0.9	5.9
18-Jan-07	0	0	0	0	A	0	0	4	7	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0.6	7.4
19-Jan-07	0	0	1	0	A	2	6	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	5.8
20-Jan-07	0	0	0	0	A	0	0	0	0	0	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0.4	2.5
21-Jan-07	0	0	0	0	A	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0.3	2.4
22-Jan-07	0	0	0	0	A	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
23-Jan-07	0	0	0	0	A	0	0	0	0	0	1	1	5	3	4	2	0	0	0	0	0	0	0	0	0.7	4.9
24-Jan-07	1	0	0	0	A	0	0	1	0	7	13	14	10	3	9	2	1	0	0	0	0	0	0	0	2.6	14.1
25-Jan-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0	0.6
26-Jan-07	0	0	0	0	A	0	0	0	0	0	1	7	C	C	C	C	C	A	0	0	0	0	0	0	N	6.9
27-Jan-07	0	0	0	0	A	0	0	0	0	1	2	5	7	5	3	0	0	0	0	0	0	0	0	0	1.0	6.9
28-Jan-07	0	0	0	0	A	0	0	0	0	0	3	3	3	1	3	2	1	1	0	0	0	0	0	0	0.7	2.9
29-Jan-07	0	0	0	0	A	0	0	12	6	1	2	2	1	3	4	4	2	0	0	0	0	0	0	0	1.7	12.3
30-Jan-07	0	0	0	0	A	0	0	0	0	0	1	1	1	2	1	1	1	0	0	0	1	0	0	0	0.3	1.6
31-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9
Hourly Avg	0.0	0.0	0.1	0.2	N	0.1	0.2	0.6	0.4	0.4	1.2	3.3	3.0	3.6	2.9	1.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.6	0.3	0.9	5.1	0.0	1.8	5.8	12.3	7.4	6.7	12.8	34.6	39.1	67.9	43.3	27.6	13.8	5.0	0.1	0.1	0.6	0.0	0.2	0.1		

PASZA – Beaverlodge - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

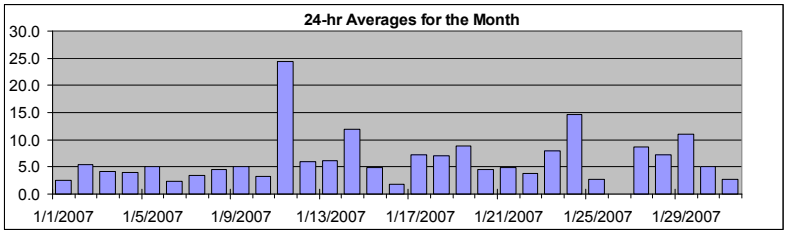
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	97.8	ppb	11-Jan	13:00 14:00
Maximum 24-hr Average:	24.3	ppb	11-Jan	



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
	37.0	15.6	7.8	4.2	2.4	1.3	1.0	6.3 ppb	4.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	1	1	2	1	A	2	2	2	4	3	4	5	5	3	2	1	1	2	2	3	3	4	4	2	2.6	5.1
2-Jan-07	3	2	1	3	A	2	2	2	3	3	5	5	6	6	5	5	6	15	15	10	9	5	8	2	5.4	15.0
3-Jan-07	1	1	1	1	A	1	1	1	2	3	5	8	7	5	4	7	8	6	7	5	6	4	8	4	4.2	8.1
4-Jan-07	5	3	3	4	A	4	8	19	7	4	4	2	3	3	2	3	2	3	2	2	2	4	3	2	4.0	19.4
5-Jan-07	2	3	3	1	A	3	5	8	10	8	9	6	3	5	5	7	8	8	5	5	3	3	4	5	5.1	10.0
6-Jan-07	7	4	2	2	A	2	2	1	1	1	2	2	1	2	1	1	2	2	3	3	5	3	2	2	2.3	6.6
7-Jan-07	4	5	6	4	A	3	2	3	4	4	6	7	8	2	1	1	3	5	2	1	1	1	1	2	3.4	7.7
8-Jan-07	1	2	3	4	A	2	2	2	2	2	4	5	4	2	2	3	11	6	8	7	5	10	12	7	4.6	12.5
9-Jan-07	3	2	6	7	A	4	4	5	7	8	13	20	5	4	4	5	3	3	2	2	2	2	2	2	5.0	19.6
10-Jan-07	2	2	1	2	A	2	2	2	3	2	3	3	2	3	3	3	3	3	4	5	6	8	7	6	3.3	7.9
11-Jan-07	11	6	9	26	A	9	9	10	9	7	6	52	62	98	68	52	41	36	19	10	6	4	5	6	24.3	97.8
12-Jan-07	4	4	3	4	A	9	4	3	5	9	6	6	8	11	7	6	6	5	8	12	6	4	4	2	5.9	11.5
13-Jan-07	3	4	23	6	A	2	2	4	4	3	2	2	3	4	5	9	7	7	9	9	10	9	9	9	6.2	23.5
14-Jan-07	10	8	10	14	A	9	9	10	14	17	16	22	14	13	19	22	17	17	9	5	8	5	2	2	11.9	22.4
15-Jan-07	2	1	1	2	A	2	4	6	7	10	6	9	5	8	8	12	8	7	5	2	2	2	1	1	4.8	11.7
16-Jan-07	1	1	1	1	A	1	1	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	4	4	1.8	4.4
17-Jan-07	3	3	3	3	A	6	4	4	5	13	11	13	7	15	13	8	4	5	8	7	6	6	11	8	7.2	14.6
18-Jan-07	9	9	6	7	A	4	5	18	28	4	2	4	4	3	5	7	9	5	4	3	4	5	4	11	7.0	27.8
19-Jan-07	8	5	10	16	A	29	39	27	14	4	2	2	3	3	3	2	4	5	3	7	5	4	5	4	8.9	38.9
20-Jan-07	4	4	2	2	A	5	4	5	7	7	5	6	8	7	5	2	3	5	5	3	2	3	4	4	4.5	7.6
21-Jan-07	4	3	1	2	A	3	4	5	7	10	8	11	11	6	5	2	3	3	4	7	3	2	3	4	4.8	11.5
22-Jan-07	3	2	4	4	A	4	7	6	6	9	9	10	6	2	2	2	2	1	2	1	1	1	1	1	3.8	10.1
23-Jan-07	1	1	1	1	A	2	4	8	7	7	8	9	15	11	15	11	7	7	13	13	12	15	9	8	8.0	15.3
24-Jan-07	12	15	9	11	A	11	16	23	27	29	30	30	22	9	22	9	14	8	6	5	7	7	6	7	14.6	30.2
25-Jan-07	4	4	1	1	A	1	1	1	1	2	1	1	2	2	2	5	4	5	4	3	3	4	3	4	2.6	5.2
26-Jan-07	2	3	3	3	A	2	4	3	4	5	5	18	C	C	C	C	C	A	3	6	8	4	11	11	N	17.6
27-Jan-07	10	13	14	11	A	10	11	11	13	11	11	15	19	14	11	3	2	4	2	2	2	2	3	4	8.6	18.8
28-Jan-07	3	3	3	2	A	3	3	4	12	5	11	9	9	6	9	9	10	13	11	4	6	12	11	9	7.2	13.0
29-Jan-07	9	8	10	9	A	15	15	37	29	12	10	7	5	8	12	14	13	6	4	12	9	5	4	3	11.1	37.1
30-Jan-07	2	3	2	2	A	2	3	3	4	4	4	3	3	5	4	5	6	15	4	4	10	13	8	5	5.0	15.5
31-Jan-07	5	6	6	6	A	4	3	2	3	3	2	2	2	1	1	2	2	1	2	1	3	2	2	1	2.7	6.5
Hourly Avg	4.4	4.3	4.9	5.2	N	5.1	5.9	7.7	8.1	6.7	6.8	9.6	8.5	8.8	8.3	7.4	6.9	6.9	5.6	5.2	5.0	5.0	5.2	4.6		
Hourly Max	12.4	14.8	23.5	25.7	0.0	29.4	38.9	37.1	28.8	29.1	30.2	51.9	62.1	97.8	68.4	52.2	41.2	35.8	18.6	12.6	11.5	14.6	12.5	11.4		

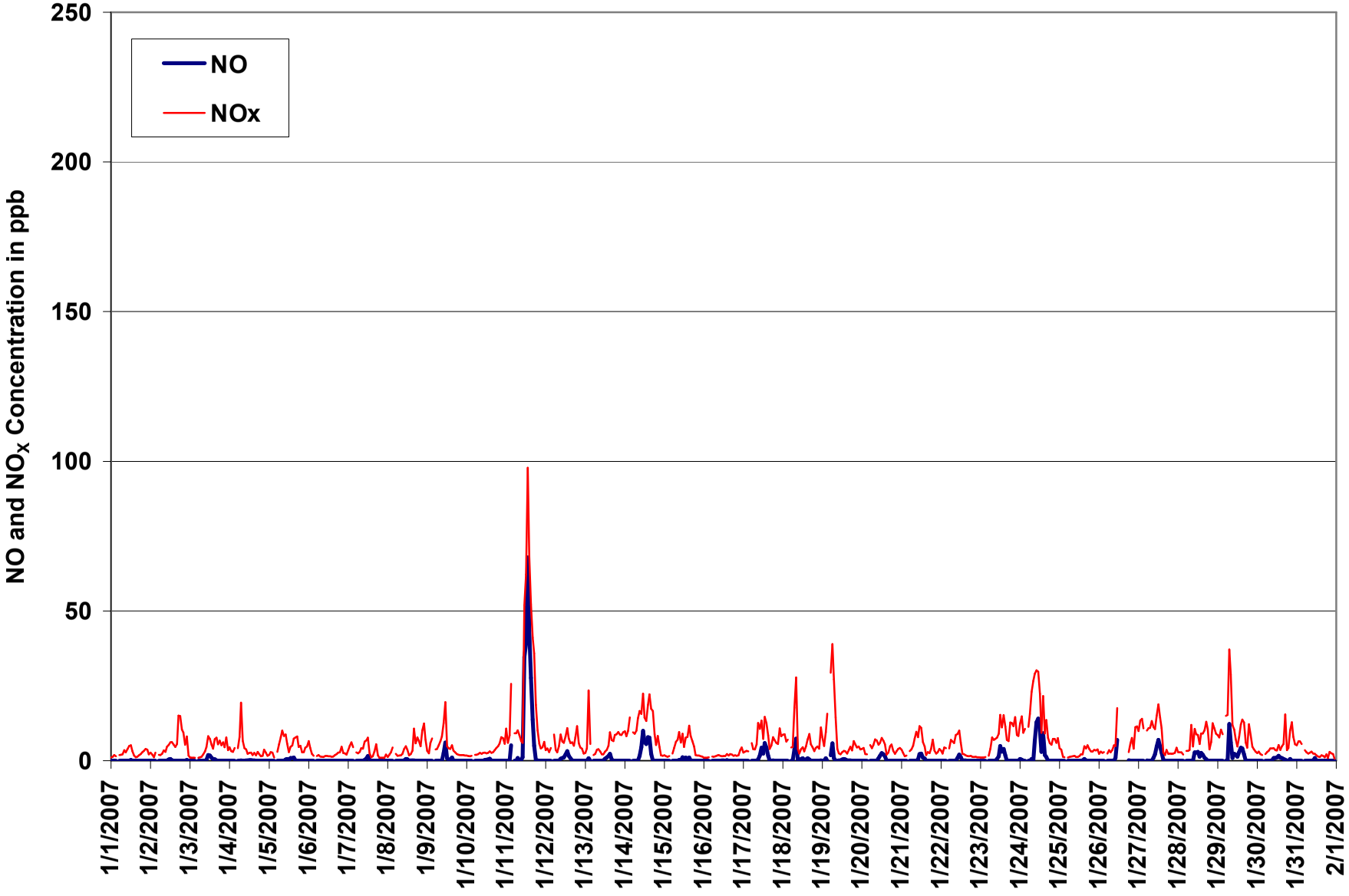


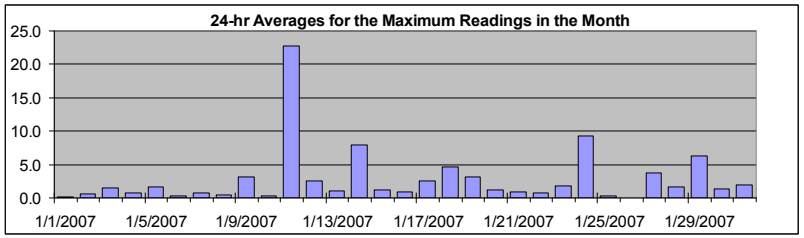
Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	128.1	ppb	11-Jan	11:00 12:00
Maximum 24-hr Value:	22.8	ppb	11-Jan	

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
	47.1	12.9	1.6	0.0	0.0	0.0	0.0	2.8 ppb	0.0 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

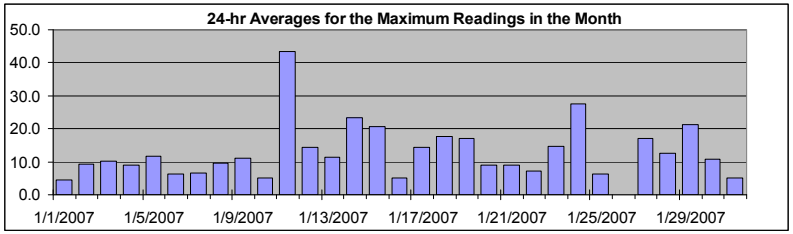
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.1	1.0
2-Jan-07	0	0	0	0	A	0	0	0	0	0	1	1	3	1	0	0	0	1	1	1	0	0	4	0	0.6	4.0
3-Jan-07	0	0	0	0	A	0	0	1	1	0	2	12	7	4	2	2	2	1	1	0	0	0	0	0	1.5	11.9
4-Jan-07	0	0	0	0	A	0	0	1	2	1	1	2	2	1	2	1	1	2	1	1	1	1	0	0	0.8	1.9
5-Jan-07	0	0	0	0	A	0	0	0	0	0	1	2	2	3	2	18	4	0	1	0	0	0	3	1	1.6	17.6
6-Jan-07	0	0	0	0	A	0	0	0	0	0	0	2	1	1	1	1	1	0	1	1	0	0	0	0	0.3	1.8
7-Jan-07	0	0	0	0	A	0	0	0	0	0	1	2	12	1	0	0	0	1	0	0	1	0	0	0	0.8	12.0
8-Jan-07	0	0	0	0	A	0	0	0	0	1	1	2	2	1	2	2	1	0	0	1	0	0	0	0	0.5	1.9
9-Jan-07	0	0	0	0	A	0	0	0	0	1	21	23	2	1	1	22	0	0	0	0	0	0	0	0	3.1	23.1
10-Jan-07	0	0	0	0	A	0	0	0	1	0	0	1	1	1	2	1	0	0	1	1	0	0	0	0	0.4	1.8
11-Jan-07	0	0	0	26	A	0	0	28	6	1	2	128	80	108	56	42	23	10	8	6	0	0	0	0	22.8	128.1
12-Jan-07	0	0	0	0	A	0	0	1	0	25	3	3	5	14	4	1	2	0	0	0	0	0	0	0	2.5	24.9
13-Jan-07	0	0	4	0	A	0	0	0	0	1	0	1	4	3	3	5	2	0	1	1	0	0	0	0	1.1	4.6
14-Jan-07	0	0	0	1	A	2	0	1	0	4	7	31	9	22	49	47	6	2	0	0	0	0	0	0	7.9	49.0
15-Jan-07	0	0	0	0	A	0	0	0	0	9	1	6	2	4	2	2	1	0	0	0	1	0	1	0	1.2	8.6
16-Jan-07	0	0	0	0	A	1	0	1	1	1	1	2	4	1	3	1	2	1	1	1	1	0	0	0	0.9	3.9
17-Jan-07	0	0	0	0	A	0	0	0	1	2	3	8	10	13	11	3	2	1	2	1	0	0	0	0	2.5	12.9
18-Jan-07	0	0	0	0	A	0	0	44	37	0	1	3	8	1	2	3	2	0	0	0	1	0	0	4	4.6	44.2
19-Jan-07	0	0	17	2	A	13	15	6	2	1	1	2	3	4	3	1	1	1	0	1	0	0	0	0	3.2	17.1
20-Jan-07	0	0	0	0	A	0	0	0	0	1	5	2	7	6	5	1	1	0	0	0	0	0	0	0	1.2	6.7
21-Jan-07	0	0	0	0	A	0	0	0	0	1	1	7	5	2	3	1	0	0	0	0	0	0	0	0	0.9	6.6
22-Jan-07	0	0	0	0	A	0	0	0	0	0	2	3	4	1	1	1	1	0	1	0	1	1	0	1	0.7	4.5
23-Jan-07	0	0	0	0	A	0	0	0	0	0	4	3	15	5	9	3	1	0	0	0	0	0	0	1	1.8	15.2
24-Jan-07	9	8	0	0	A	0	3	6	1	29	38	32	14	12	50	8	3	0	0	0	0	0	0	0	9.2	49.6
25-Jan-07	0	0	0	0	A	0	1	0	0	0	0	0	1	1	1	2	2	0	0	0	0	0	0	0	0.4	2.0
26-Jan-07	0	0	0	0	A	0	0	0	0	1	2	16	C	C	C	C	C	A	7	0	0	0	0	0	N	15.6
27-Jan-07	0	2	0	0	A	3	1	2	2	2	4	21	33	11	6	1	1	0	0	0	0	0	0	0	3.8	33.1
28-Jan-07	0	0	0	0	A	0	0	0	3	1	5	4	8	3	6	3	2	4	1	0	0	0	0	0	1.7	8.0
29-Jan-07	0	0	0	0	A	1	1	46	54	2	3	4	2	6	11	8	4	1	0	1	0	0	0	0	6.2	53.5
30-Jan-07	0	0	0	0	A	0	0	0	0	1	1	1	3	3	2	2	2	2	0	0	13	0	0	0	1.3	12.9
31-Jan-07	0	0	0	0	A	0	0	0	0	0	1	43	1	0	0	1	0	0	0	0	0	0	0	0	2.0	42.8
Hourly Avg	0.3	0.3	0.7	1.0	N	0.7	0.7	4.4	3.5	2.7	3.6	11.9	8.3	7.8	7.9	6.1	2.2	0.9	0.9	0.5	0.6	0.1	0.2	0.2		
Hourly Max	8.6	8.1	17.1	26.4	0.0	12.9	15.1	46.2	53.5	28.6	37.8	128.1	79.6	107.5	56.4	47.1	22.6	10.3	8.3	6.4	12.9	0.9	4.0	3.9		

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	198.5	ppb	15-Jan	14:00 15:00
Maximum 24-hr Value:	43.5	ppb	11-Jan	

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
	82.8	38.0	14.7	8.3	4.9	2.9	1.9	13.0 ppb	8.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	2	3	3	2	A	2	3	4	7	5	4	6	7	7	4	3	4	4	5	5	7	7	5	5	4.5	7.3
2-Jan-07	8	3	2	5	A	3	2	4	6	5	10	7	15	8	8	7	11	19	25	13	11	11	30	3	9.3	29.7
3-Jan-07	3	2	3	2	A	3	4	4	6	6	14	32	20	13	9	15	18	19	18	10	9	7	17	6	10.3	31.9
4-Jan-07	8	5	3	6	A	6	22	25	19	11	11	6	6	7	6	7	6	7	7	5	5	17	8	4	9.0	25.4
5-Jan-07	6	12	12	2	A	8	8	13	16	15	12	12	6	9	10	46	17	12	9	9	4	5	12	15	11.8	46.4
6-Jan-07	19	7	14	3	A	5	5	4	4	4	3	7	5	3	3	4	5	6	9	11	13	6	4	3	6.3	19.3
7-Jan-07	5	8	8	6	A	5	4	6	8	6	8	12	25	6	3	3	11	11	5	2	2	2	2	3	6.5	25.5
8-Jan-07	2	5	6	17	A	4	3	5	5	10	8	8	9	5	8	9	23	13	17	16	7	15	17	11	9.6	23.4
9-Jan-07	7	3	10	11	A	5	7	7	9	11	51	54	9	6	6	37	5	4	4	3	3	2	3	2	11.2	54.3
10-Jan-07	2	3	2	2	A	3	3	3	5	3	4	4	4	5	6	4	4	5	7	10	11	11	9	11	5.2	11.2
11-Jan-07	19	10	21	69	A	13	12	51	15	10	7	177	111	144	83	72	50	45	35	19	8	6	9	15	43.5	177.1
12-Jan-07	8	9	5	9	A	20	9	8	8	62	11	14	15	41	17	9	15	7	15	19	13	7	7	4	14.4	62.4
13-Jan-07	4	6	42	27	A	3	4	11	9	5	5	4	10	8	11	15	12	10	15	13	12	12	14	12	11.4	41.8
14-Jan-07	14	14	13	23	A	18	11	14	20	24	20	51	19	38	73	78	27	22	14	7	20	9	5	4	23.3	78.0
15-Jan-07	5	5	5	4	A	5	11	15	17	41	15	30	12	20	198	17	14	15	10	6	8	6	8	7	20.6	198.5
16-Jan-07	2	2	2	2	A	4	4	3	6	5	4	5	10	5	9	5	8	6	5	5	6	5	9	6	5.1	9.7
17-Jan-07	6	6	8	5	A	9	5	9	22	32	15	21	22	28	26	16	12	11	22	15	9	8	13	11	14.4	32.0
18-Jan-07	10	10	8	10	A	5	8	96	81	10	6	8	16	6	12	17	15	8	14	5	11	8	7	35	17.6	95.6
19-Jan-07	10	6	50	24	A	48	51	36	23	9	5	7	8	12	8	6	9	13	10	19	13	6	11	11	17.2	50.5
20-Jan-07	10	10	4	4	A	7	13	8	10	8	9	7	14	11	14	4	6	12	11	11	6	9	9	10	9.0	14.0
21-Jan-07	6	5	2	3	A	5	5	11	10	16	10	22	17	9	15	7	6	6	10	16	8	7	7	9	9.1	21.8
22-Jan-07	5	4	5	5	A	6	12	10	9	14	12	13	16	4	5	7	5	4	7	4	3	5	2	5	7.1	15.7
23-Jan-07	3	4	3	4	A	4	9	15	14	16	21	14	36	16	29	16	13	9	24	19	17	18	14	24	14.7	35.8
24-Jan-07	41	45	11	14	A	15	27	34	29	56	67	54	28	24	74	22	20	14	10	9	12	12	7	12	27.6	74.4
25-Jan-07	6	9	4	4	A	4	6	4	5	8	4	3	3	5	6	12	11	12	9	7	7	9	5	5	6.3	11.6
26-Jan-07	4	5	4	8	A	3	7	5	7	8	7	35	C	C	C	C	C	A	30	16	17	5	18	18	N	35.5
27-Jan-07	16	29	21	12	A	30	27	21	20	15	16	33	56	27	17	6	6	10	10	5	4	3	5	6	17.2	55.6
28-Jan-07	3	3	3	3	A	4	5	6	36	7	17	11	15	10	19	13	18	32	30	5	10	18	15	11	12.7	35.8
29-Jan-07	12	10	14	11	A	28	21	90	98	16	13	11	6	15	27	21	17	9	15	30	15	6	5	4	21.4	97.6
30-Jan-07	3	4	4	2	A	3	5	5	7	5	6	5	7	8	7	8	11	36	7	16	51	25	10	15	10.8	50.7
31-Jan-07	6	8	8	6	A	9	4	4	5	5	5	14	4	3	2	4	5	2	5	2	5	5	5	3	5.1	14.2
Hourly Avg	8.1	8.1	9.6	9.7	N	9.2	10.1	17.1	17.2	14.5	12.9	22.2	17.6	16.8	23.8	16.2	12.8	12.7	13.3	10.7	10.4	8.7	9.4	9.3		
Hourly Max	40.7	44.6	50.1	68.7	0.0	48.2	50.5	95.6	97.6	62.4	66.9	177.1	111.1	144.5	198.5	78.0	49.9	45.0	35.3	30.3	50.7	24.6	29.7	34.5		

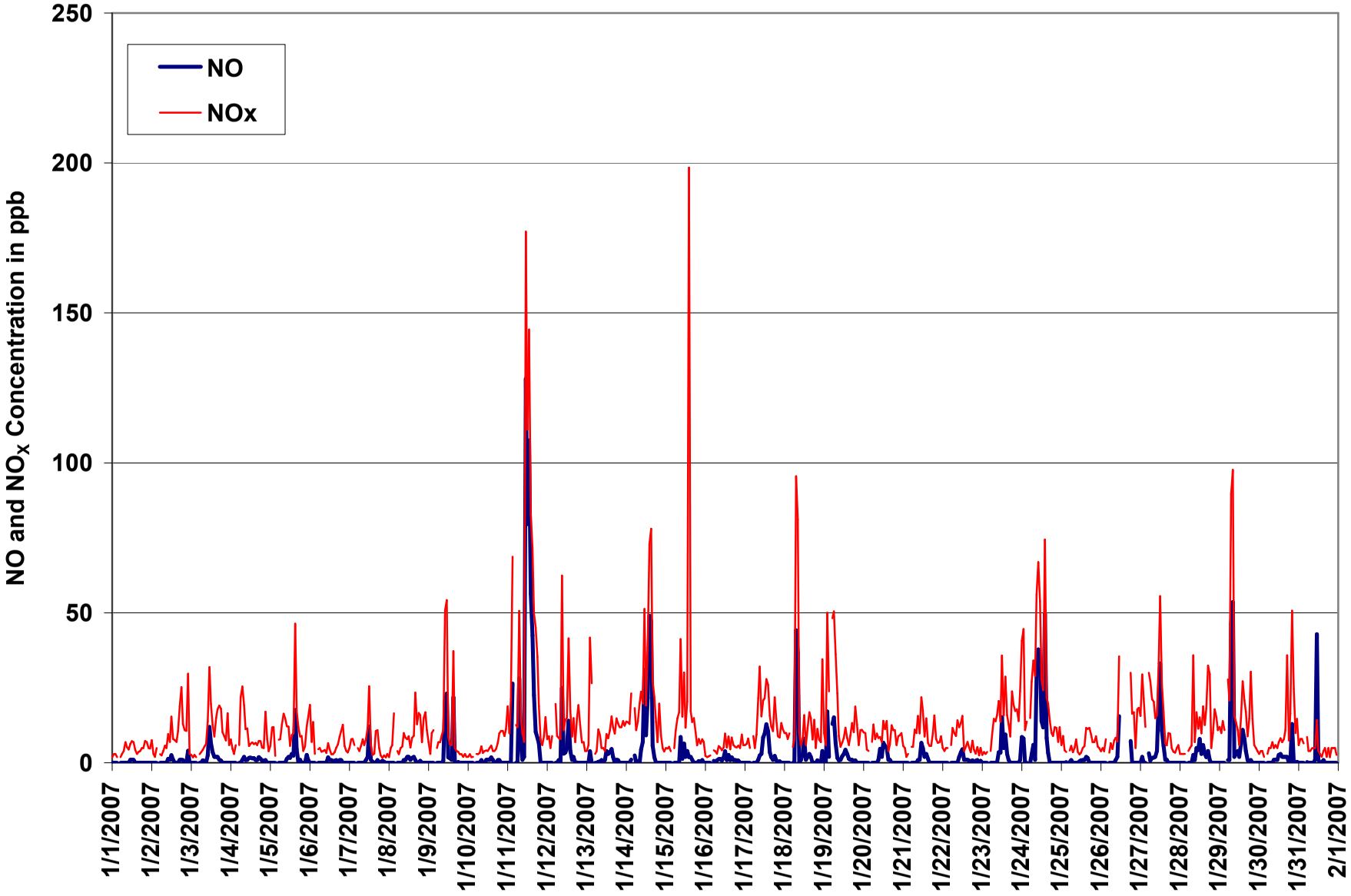


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge - Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O_3)

Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

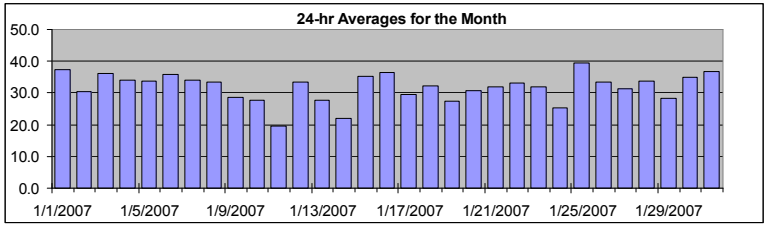
Objective Limit: **Alberta Environment:** 1-hr 82 ppb | 24-hr na ppb

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	43.7	ppb	25-Jan	2:00 3:00
Maximum 24-hr Average:	39.3	ppb	25-Jan	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	41.9	39.4	36.3	33.0	29.1	19.0	7.6	31.8 ppb	33.0 ppb



Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	41	41	40	41	A	41	40	40	38	39	38	37	36	38	38	38	37	36	35	34	34	33	33	34	37.4	41.0
2-Jan-07	34	35	35	33	A	34	34	34	33	34	33	31	31	31	31	31	30	19	18	21	21	27	30	38	30.3	38.0
3-Jan-07	39	39	39	39	A	39	39	39	38	37	36	34	35	37	38	34	33	35	33	34	33	34	31	35	36.0	39.0
4-Jan-07	34	34	35	33	A	32	28	17	29	32	33	36	37	39	39	39	38	37	36	36	36	34	35	36	34.0	38.8
5-Jan-07	35	35	35	38	A	36	34	31	29	31	32	35	38	37	36	34	32	31	34	33	35	34	33	32	33.9	38.0
6-Jan-07	30	31	33	35	A	38	38	39	39	39	39	38	38	38	38	37	36	35	34	34	32	35	35	35	35.9	39.1
7-Jan-07	33	31	30	32	A	36	36	35	34	34	32	32	32	35	37	36	34	31	34	36	37	37	38	31	34.0	38.2
8-Jan-07	35	35	34	32	A	35	36	36	36	36	35	34	35	37	37	36	29	33	30	31	33	27	25	30	33.4	36.7
9-Jan-07	33	35	30	28	A	33	33	32	30	27	25	23	31	33	32	31	23	24	25	25	25	26	26	27	28.6	34.8
10-Jan-07	28	29	29	29	A	29	29	29	29	29	29	29	30	29	29	29	28	27	27	26	25	23	24	25	27.7	29.5
11-Jan-07	21	25	22	14	A	21	20	19	19	21	23	19	14	10	12	11	7	4	16	25	31	33	33	33	19.7	33.2
12-Jan-07	35	35	36	35	A	31	35	35	33	30	32	33	32	31	33	33	33	33	31	30	35	36	36	37	33.5	37.1
13-Jan-07	37	35	19	33	A	35	34	31	30	30	30	30	30	29	29	25	26	25	23	22	21	21	21	20	27.7	36.6
14-Jan-07	20	21	19	15	A	19	19	17	13	13	17	16	21	23	22	20	19	17	26	31	31	34	37	37	22.0	37.2
15-Jan-07	37	37	37	37	A	37	35	32	32	30	34	32	36	34	36	30	32	34	35	39	39	39	38	38	35.2	38.9
16-Jan-07	38	38	37	37	A	37	37	36	36	36	36	37	37	37	37	38	37	37	37	36	36	35	33	32	36.4	37.9
17-Jan-07	33	32	31	31	A	29	31	32	30	24	26	26	30	27	28	30	33	32	29	30	30	30	25	27	29.4	33.5
18-Jan-07	26	26	28	27	A	30	31	26	21	35	37	36	36	37	36	34	32	35	35	37	35	34	35	27	32.1	37.3
19-Jan-07	29	32	29	19	A	7	2	6	18	30	33	34	34	34	35	35	34	32	33	30	30	31	31	33	27.4	35.4
20-Jan-07	32	32	34	33	A	29	30	28	26	27	29	29	29	30	31	34	34	31	31	32	33	32	32	31	30.8	33.9
21-Jan-07	32	34	35	35	A	33	32	32	29	27	29	28	29	33	34	36	34	34	33	30	33	34	33	31	32.1	35.7
22-Jan-07	32	33	30	29	A	30	27	27	29	28	28	28	32	35	35	35	35	37	37	38	39	39	39	39	33.1	39.3
23-Jan-07	39	39	39	39	A	39	37	32	32	32	33	32	30	32	29	31	33	33	27	26	26	22	26	27	32.0	39.3
24-Jan-07	23	20	24	20	A	16	12	6	3	7	10	14	18	28	25	36	32	41	42	42	40	40	41	39	25.2	42.4
25-Jan-07	42	42	44	43	A	39	39	39	40	42	41	41	41	40	40	38	38	36	37	37	37	36	36	35	39.3	43.7
26-Jan-07	36	35	36	37	A	37	36	36	35	34	35	29	33	31	32	30	33	32	37	C	C	A	28	26	33.4	37.3
27-Jan-07	27	23	22	24	A	25	23	23	20	23	27	27	27	30	35	42	42	40	41	41	40	39	39	37	31.2	42.1
28-Jan-07	38	38	38	39	A	37	37	36	28	35	32	32	33	38	34	32	32	29	31	37	34	27	28	30	33.7	38.9
29-Jan-07	30	31	27	28	A	21	19	12	13	24	28	31	33	33	31	29	28	33	37	28	31	35	36	36	28.4	37.2
30-Jan-07	36	36	37	37	A	37	36	36	34	34	35	36	37	37	39	38	37	27	38	37	31	26	31	32	34.9	38.5
31-Jan-07	32	30	29	30	A	35	37	38	38	37	38	39	39	40	40	39	39	39	38	39	37	37	37	37	36.7	39.7
Hourly Avg	32.8	32.8	32.1	31.8	N	31.5	30.7	29.4	28.9	30.3	31.2	31.0	32.0	33.0	33.1	32.9	32.0	31.3	32.3	32.5	32.6	32.4	32.4	32.6		
Hourly Max	42.3	42.1	43.7	43.2	0.0	40.6	40.1	39.7	39.9	41.5	41.4	41.0	41.2	40.2	40.0	41.9	42.1	40.8	42.4	42.3	39.7	39.8	40.5	39.3		

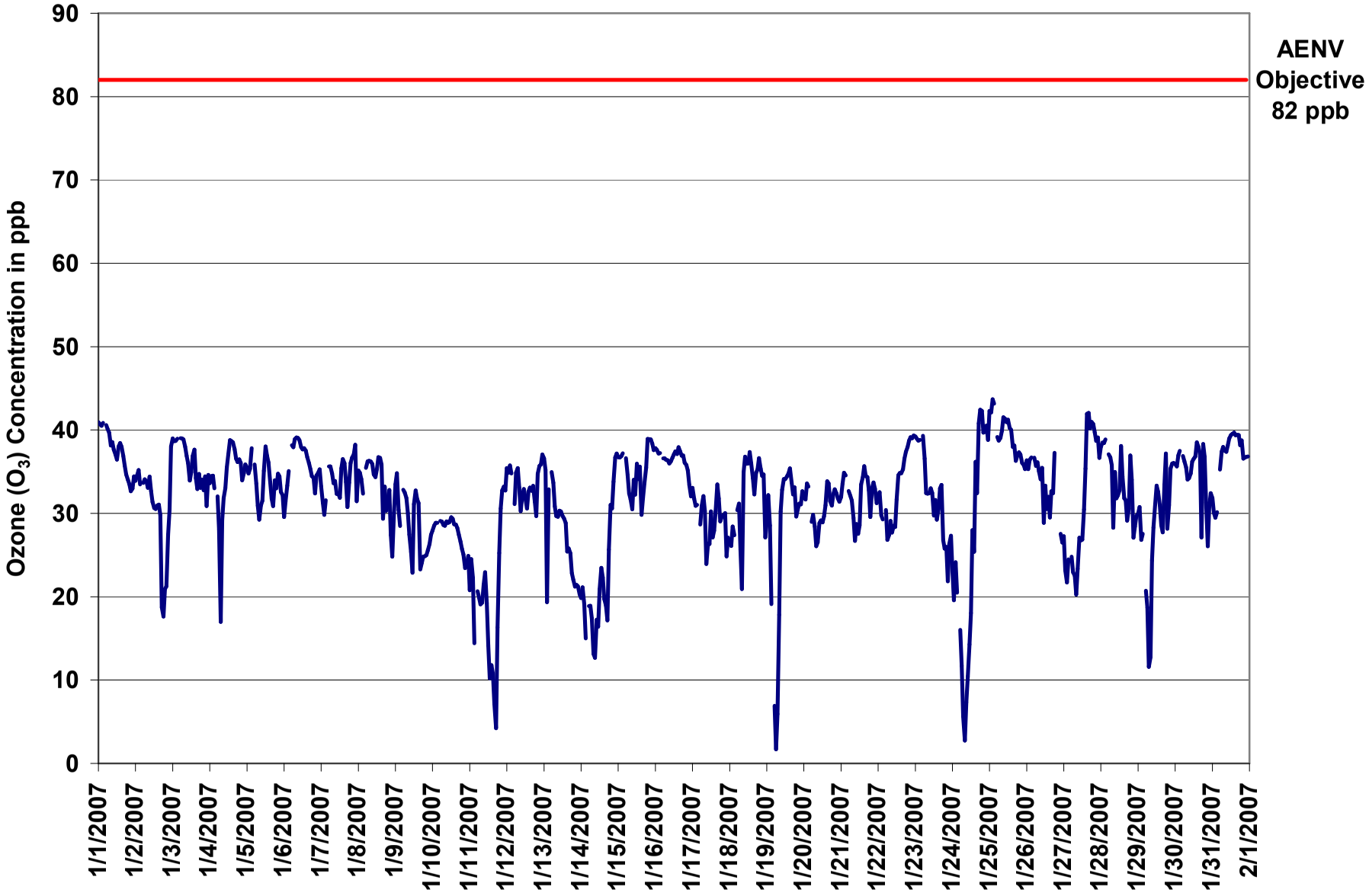


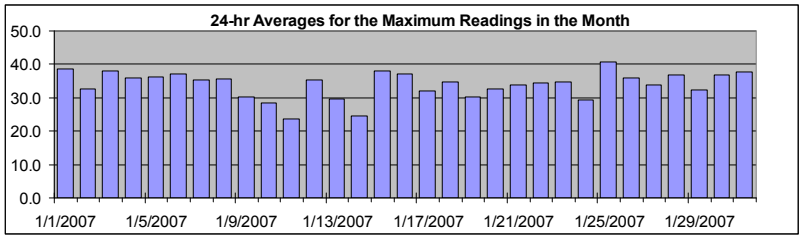
Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	46.5	ppb	24-Jan	17:00 18:00
Maximum 24-hr Value:	40.8	ppb	25-Jan	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	43.6	40.6	37.7	35.3	31.3	22.3	13.5	34.0 ppb	35.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	42	41	41	41	A	41	41	41	40	40	39	38	38	39	39	39	38	37	36	35	35	34	35	35	38.5	41.6
2-Jan-07	35	35	36	34	A	34	35	35	35	35	34	33	33	32	33	33	31	25	22	22	23	34	39	39	32.5	39.2
3-Jan-07	40	39	39	39	A	39	40	39	39	39	38	38	38	39	40	39	38	38	37	38	34	36	36	36	38.2	39.7
4-Jan-07	36	35	35	35	A	33	31	24	34	34	35	37	38	40	41	40	39	38	37	37	37	36	37	37	35.8	40.6
5-Jan-07	37	37	38	39	A	37	35	34	33	34	35	38	39	38	38	38	33	36	36	35	36	36	35	35	36.1	39.1
6-Jan-07	33	33	35	36	A	39	39	40	40	40	40	39	38	39	39	38	37	37	36	36	36	36	37	37	37.3	40.1
7-Jan-07	35	33	31	33	A	37	37	36	35	35	34	35	35	37	37	37	36	34	36	37	37	38	39	34	35.4	38.8
8-Jan-07	36	36	36	36	A	37	37	37	37	37	37	36	37	38	38	38	37	37	37	35	34	32	27	32	35.8	37.9
9-Jan-07	34	36	37	31	A	34	34	33	31	30	30	30	32	34	33	33	24	25	25	25	25	26	27	28	30.3	36.6
10-Jan-07	28	29	29	29	A	29	29	29	29	30	29	29	30	30	29	29	29	28	28	27	27	25	25	27	28.6	30.3
11-Jan-07	25	26	27	26	A	22	23	22	21	22	24	25	21	19	18	16	11	11	23	28	33	33	34	36	23.7	35.8
12-Jan-07	36	37	37	36	A	36	36	36	36	34	33	34	33	33	34	34	34	34	34	36	37	38	37	38	35.5	37.9
13-Jan-07	38	36	34	35	A	36	35	33	31	31	31	31	31	30	30	29	27	26	25	25	23	23	23	22	29.7	37.6
14-Jan-07	23	22	21	20	A	20	20	20	16	17	19	19	23	25	24	23	21	20	29	33	35	37	38	38	24.5	37.9
15-Jan-07	38	38	38	38	A	38	38	37	37	36	36	37	38	39	39	35	37	39	40	40	40	40	39	38	37.9	40.1
16-Jan-07	38	38	38	38	A	37	37	37	37	37	37	37	38	38	38	39	39	38	38	37	37	36	36	33	37.2	38.7
17-Jan-07	34	33	32	32	A	31	32	34	34	28	28	32	33	30	31	34	36	34	33	34	31	31	29	28	31.9	35.9
18-Jan-07	28	27	30	29	A	31	33	34	35	37	38	37	38	39	38	37	36	36	37	38	38	37	36	34	34.9	38.6
19-Jan-07	32	33	33	22	A	13	7	10	27	32	34	35	35	36	36	36	36	35	35	35	33	32	34	34	30.3	36.3
20-Jan-07	35	34	35	34	A	31	31	30	27	28	30	30	30	31	34	35	35	34	34	35	34	34	34	33	32.5	35.3
21-Jan-07	33	35	36	36	A	33	33	33	32	29	30	29	32	35	37	37	36	36	35	35	35	35	34	33	33.9	36.8
22-Jan-07	32	33	31	30	A	31	29	29	32	31	31	30	35	35	36	36	36	38	38	39	40	40	40	40	34.4	39.7
23-Jan-07	40	40	39	39	A	41	40	37	35	34	35	35	34	35	33	32	34	35	35	30	30	24	30	31	34.7	40.5
24-Jan-07	29	26	26	26	A	18	19	9	5	12	16	18	22	32	33	44	39	47	47	45	42	42	42	41	29.5	46.5
25-Jan-07	44	45	45	44	A	40	40	40	41	43	42	42	42	42	41	41	40	40	39	39	39	38	37	36	40.8	44.7
26-Jan-07	37	37	37	38	A	37	37	37	36	36	37	35	36	35	37	34	36	37	39	C	C	A	33	29	36.0	39.1
27-Jan-07	29	28	25	26	A	26	26	25	25	26	29	31	31	33	41	44	43	43	43	42	41	39	40	39	33.8	43.7
28-Jan-07	39	39	39	39	A	38	38	37	36	36	36	34	36	42	42	33	34	40	38	38	38	31	31	31	36.7	42.3
29-Jan-07	32	34	29	29	A	30	23	26	25	27	31	33	34	34	34	30	31	36	40	36	35	37	37	37	32.2	40.4
30-Jan-07	37	37	38	38	A	38	37	37	35	35	36	37	37	38	39	39	39	38	39	39	38	30	33	33	36.8	39.4
31-Jan-07	33	32	30	31	A	37	38	38	38	38	39	40	40	40	40	40	40	40	39	39	38	38	38	38	37.8	40.3
Hourly Avg	34.4	34.4	34.0	33.6	N	33.1	32.6	31.9	32.1	32.3	32.9	33.3	34.2	35.1	35.6	35.2	34.3	34.5	35.1	34.9	34.6	34.3	34.5	34.3		
Hourly Max	44.1	44.7	44.6	43.6	0.0	41.1	41.1	40.9	41.2	42.9	42.1	41.6	42.1	42.3	42.3	43.7	43.4	46.5	46.5	44.5	42.1	42.1	41.6	40.8		

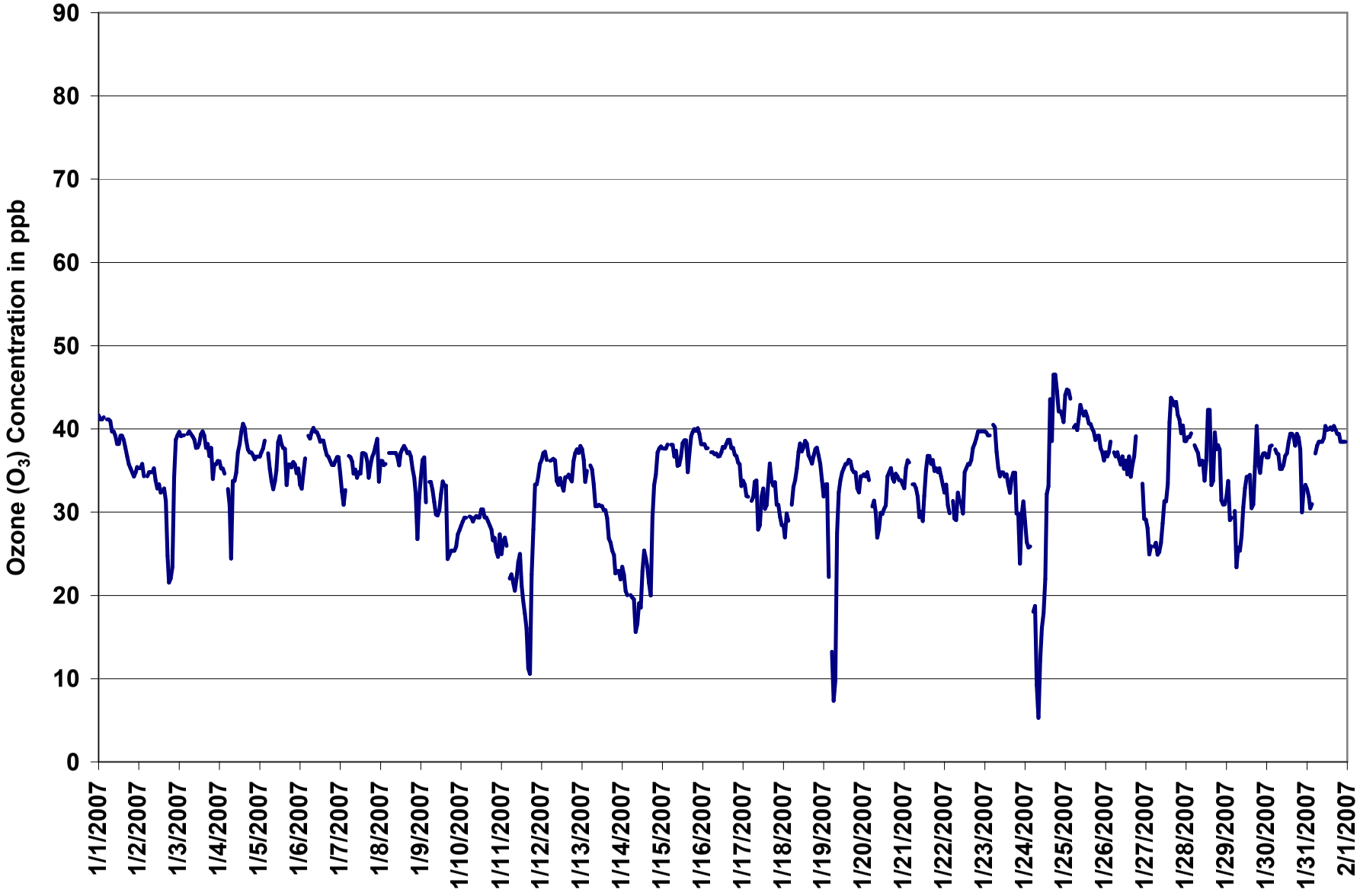
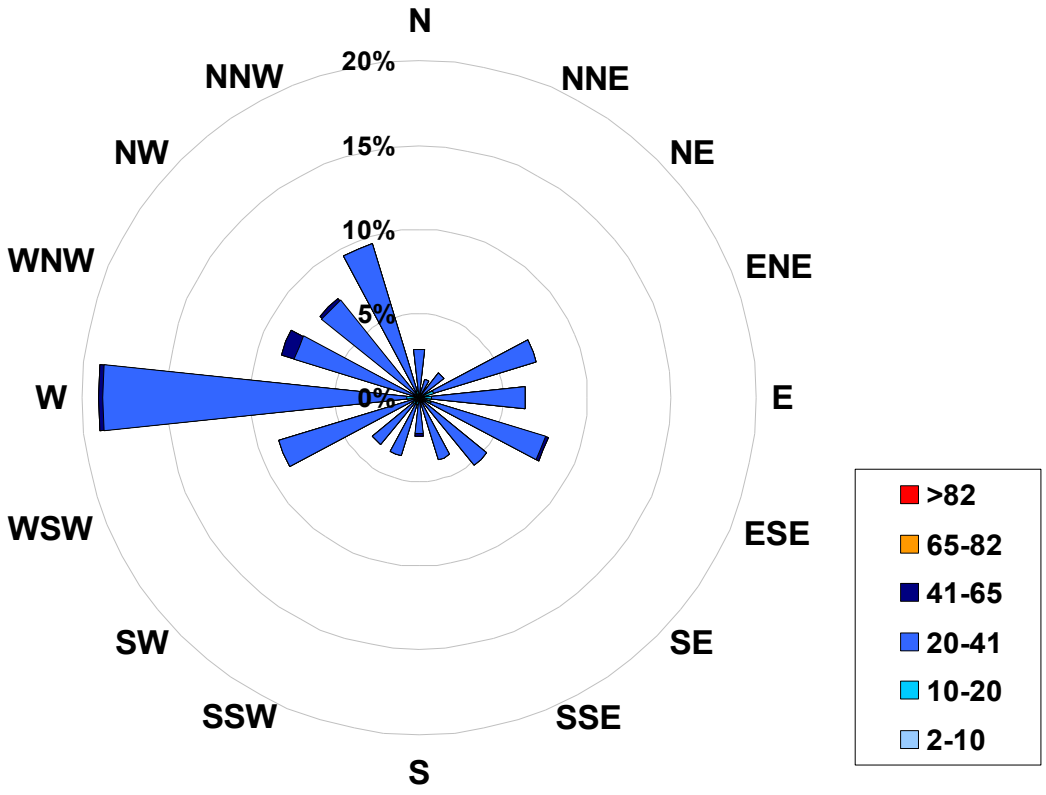


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 1%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	8
10	to	20	38
20	to	41	653
41	to	65	11
65	to	82	0
	>	82	0
Total Non-Zero Values			710

PASZA - Beaverlodge - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

Station: Beaverlodge
Station Owner: PASZA

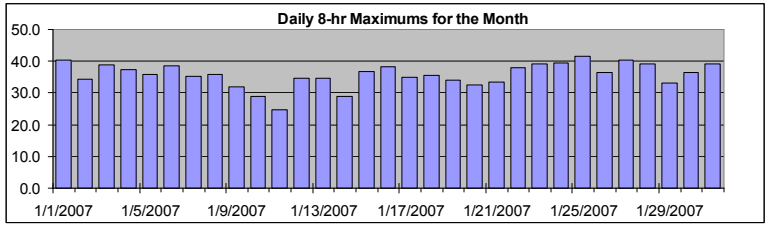
Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	41.5	ppb	25-Jan	4:00 5:00

Percentile	99	95	75	50	25	5	1
	40.8	39.0	35.6	33.0	29.2	19.6	13.1



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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	36	37	38	39	39	40	40	40	40	40	39	39	39	38	38	38	38	37	37	37	36	35	35	34	40.5
2-Jan-07	34	34	34	34	34	34	34	34	34	34	34	33	33	33	32	32	31	29	28	26	25	25	25	26	34.2
3-Jan-07	27	29	32	34	36	38	39	39	39	38	38	37	37	37	37	36	35	35	35	35	35	34	33	33	38.9
4-Jan-07	34	33	34	34	34	33	33	30	30	29	29	30	30	31	33	35	36	37	37	37	37	37	36	36	37.5
5-Jan-07	36	35	35	36	35	36	36	35	34	33	33	32	33	33	34	34	34	34	35	34	34	34	33	33	35.7
6-Jan-07	33	33	33	33	33	33	34	35	36	37	38	39	38	38	38	38	38	37	37	36	36	35	35	35	38.6
7-Jan-07	34	34	33	33	33	33	33	33	33	34	34	34	34	34	34	34	34	34	34	34	35	35	35	35	35.3
8-Jan-07	35	35	35	35	35	35	34	35	35	35	35	36	36	36	36	36	35	35	34	34	33	32	31	30	35.8
9-Jan-07	30	31	31	30	30	31	32	32	32	31	30	29	29	29	29	29	28	28	28	28	27	26	26	25	32.1
10-Jan-07	26	26	27	27	28	28	29	29	29	29	29	29	29	29	29	29	29	29	28	28	27	27	26	26	29.0
11-Jan-07	25	24	24	22	22	22	21	20	20	20	20	20	20	18	17	16	15	13	12	12	15	17	20	23	24.7
12-Jan-07	26	30	33	34	34	34	34	35	34	34	33	33	33	33	32	32	32	32	32	32	32	33	33	34	34.6
13-Jan-07	34	35	33	33	33	33	33	32	31	30	32	31	31	30	30	29	29	28	27	26	25	24	23	23	34.5
14-Jan-07	22	21	21	20	20	19	19	19	18	16	16	16	17	18	18	18	19	20	21	22	24	25	27	29	28.9
15-Jan-07	31	34	35	36	36	37	37	36	35	34	34	33	33	33	33	33	33	33	34	34	35	35	36	37	36.9
16-Jan-07	37	38	38	38	38	37	37	37	37	37	36	36	36	37	37	37	37	37	37	37	37	37	36	35	38.2
17-Jan-07	35	34	34	33	32	32	31	31	31	30	29	28	29	28	28	28	28	29	30	30	30	30	30	29	34.9
18-Jan-07	29	28	28	28	27	27	28	28	27	28	30	31	31	32	33	34	35	35	35	35	35	35	35	34	35.4
19-Jan-07	33	33	32	30	29	25	21	18	16	16	16	18	20	24	28	32	34	34	34	33	33	33	32	32	34.0
20-Jan-07	32	31	32	32	32	32	32	31	30	30	29	28	28	28	29	29	30	31	31	31	32	32	32	32	32.4
21-Jan-07	32	32	33	33	33	33	33	33	33	32	31	30	30	30	30	31	31	32	33	33	33	33	33	33	33.5
22-Jan-07	32	32	32	32	32	31	30	30	29	29	28	28	29	29	30	31	32	33	34	35	36	37	37	38	37.9
23-Jan-07	38	39	39	39	39	39	39	38	37	36	35	34	34	33	32	31	32	32	31	30	30	28	28	28	39.1
24-Jan-07	26	25	24	24	23	22	20	17	14	13	11	10	11	12	14	18	22	26	30	33	36	37	39	40	39.6
25-Jan-07	41	41	41	41	41	41	41	41	41	41	40	40	40	40	41	40	40	40	39	39	38	37	37	37	41.5
26-Jan-07	36	36	36	36	36	36	36	36	36	36	36	35	34	34	33	32	32	32	32	33	N	N	N	N	36.4
27-Jan-07	N	N	N	N	N	25	24	24	23	23	24	24	24	25	27	29	32	34	36	37	39	40	40	40	40.4
28-Jan-07	39	39	39	38	38	38	38	38	36	36	35	34	34	34	34	33	33	33	33	33	33	32	31	31	39.2
29-Jan-07	31	31	30	29	29	28	26	24	21	20	21	21	23	24	26	28	30	31	32	31	31	32	32	33	33.1
30-Jan-07	34	34	34	36	36	36	36	36	36	36	36	35	36	36	36	36	37	36	36	36	36	34	33	32	36.5
31-Jan-07	32	32	31	30	30	31	32	33	34	35	36	38	38	38	39	39	39	39	39	39	39	39	38	38	39.2
Hourly Max	40.8	41.0	41.2	41.3	41.5	41.4	41.1	41.2	40.8	40.7	40.4	40.1	40.2	40.4	40.5	40.4	40.2	39.5	39.2	39.2	38.9	40.0	40.4	39.8	

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

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

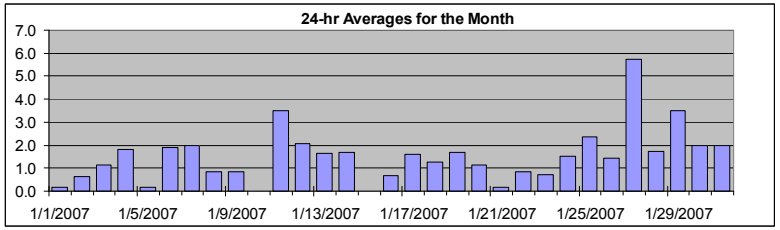
Particulate Matter ($PM_{2.5}$)

Monitoring Dates: January 1, 2007 to February 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:	20.1	µg/m³	27-Jan	10:00 11:00
Maximum 24-hr Value:	5.7	µg/m³	27-Jan	



AIC Time:	0 hrs	Operational Time:	719 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	96.6%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	11.5	4.9	2.2	1.0	0.0	0.0	0.0	1.6	1 µg/m˘	1.1 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0.2	3.3
2-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	1	5	3	1	0.6	4.6
3-Jan-07	2	2	3	3	2	0	1	0	4	0	0	0	0	1	0	0	0	2	1	0	0	2	1	2	1.1	4.0
4-Jan-07	0	1	2	1	1	1	1	0	3	2	0	1	6	8	4	3	3	5	0	1	0	0	1	1	1.8	7.8
5-Jan-07	0	1	0	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	2	0.2	1.7
6-Jan-07	2	4	5	5	3	2	2	1	3	2	3	3	2	2	3	2	1	0	0	1	0	0	0	0	1.9	4.7
7-Jan-07	0	0	0	0	D	0	0	D	0	0	0	0	1	5	2	1	1	0	3	6	6	4	6	8	2.0	7.6
8-Jan-07	3	3	0	1	0	1	1	0	0	1	0	1	0	0	1	3	2	1	0	1	0	0	0	0	0.8	3.3
9-Jan-07	0	0	1	1	2	0	0	0	0	1	1	2	1	0	1	1	1	1	2	N	N	N	N	N	0.9	2.1
10-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	3	2	3	2	2	2	2	2	1	0	N	3.2
11-Jan-07	1	1	1	2	0	1	0	0	1	2	2	6	7	12	9	8	4	3	3	3	4	4	5	5	3.5	12.1
12-Jan-07	1	2	2	0	1	1	0	0	0	1	3	2	0	X	X	X	2	2	3	10	6	4	3	2	2.1	9.8
13-Jan-07	2	1	2	2	1	1	1	1	1	2	1	1	0	1	1	1	1	3	2	2	2	3	3	3	1.6	3.1
14-Jan-07	2	3	3	3	4	3	2	3	2	3	2	2	1	1	0	1	1	0	1	1	2	0	0	0	1.7	4.0
15-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
16-Jan-07	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	4	1	1	0	1	1	1	0.7	3.6
17-Jan-07	3	3	4	3	2	2	2	1	1	1	2	1	0	1	1	1	1	2	2	1	1	1	1	1	1.6	3.5
18-Jan-07	0	1	1	1	1	0	1	1	2	1	1	0	1	1	0	1	2	1	0	4	2	2	3	3	1.3	3.9
19-Jan-07	3	2	1	4	5	5	6	6	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1.7	5.9
20-Jan-07	1	1	1	2	1	1	0	2	1	2	2	2	2	2	2	1	1	1	1	1	0	1	0	0	1.2	2.5
21-Jan-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0.2	1.6
22-Jan-07	0	0	0	1	1	1	1	0	0	1	1	0	1	0	2	2	2	1	0	0	1	2	2	1	0.8	2.5
23-Jan-07	2	1	0	0	0	1	1	0	2	1	0	1	0	1	0	2	0	0	0	0	0	1	2	1	0.7	1.9
24-Jan-07	1	1	0	1	2	1	2	4	5	6	4	3	2	1	1	0	0	0	0	0	0	0	0	0	1.5	5.8
25-Jan-07	1	3	2	2	4	3	1	0	0	0	2	2	5	2	2	2	1	3	4	5	4	2	2	3	2.4	5.1
26-Jan-07	3	3	3	2	2	1	1	1	1	2	1	3	1	2	1	2	1	1	0	1	2	0	0	0	1.4	3.1
27-Jan-07	2	1	1	1	1	1	6	13	13	15	20	17	13	12	4	0	0	0	3	3	3	3	3	3	5.7	20.1
28-Jan-07	2	2	2	2	2	1	1	2	3	2	2	2	1	4	4	1	1	3	0	0	1	1	1	0	1.7	4.4
29-Jan-07	2	3	3	3	4	4	5	6	6	4	4	3	2	3	3	4	3	2	2	3	3	3	4	5	3.5	6.1
30-Jan-07	4	3	3	3	2	2	2	3	3	3	3	3	2	2	1	1	1	2	0	0	0	1	1	4	2.0	4.0
31-Jan-07	4	6	5	7	2	2	3	3	2	2	3	2	1	0	0	1	0	0	0	0	1	0	1	1	2.0	6.8
Hourly Avg	1.4	1.6	1.5	1.7	1.4	1.2	1.4	1.6	2.0	1.8	2.0	1.9	1.7	2.2	1.6	1.5	1.1	1.3	1.0	1.6	1.4	1.4	1.5	1.6		
Hourly Max	4.3	6.4	5.5	6.8	5.4	4.8	6.5	13.4	13.3	15.2	20.1	16.8	13.2	12.1	8.8	8.3	3.5	5.0	3.6	9.8	6.4	4.6	5.8	7.6		

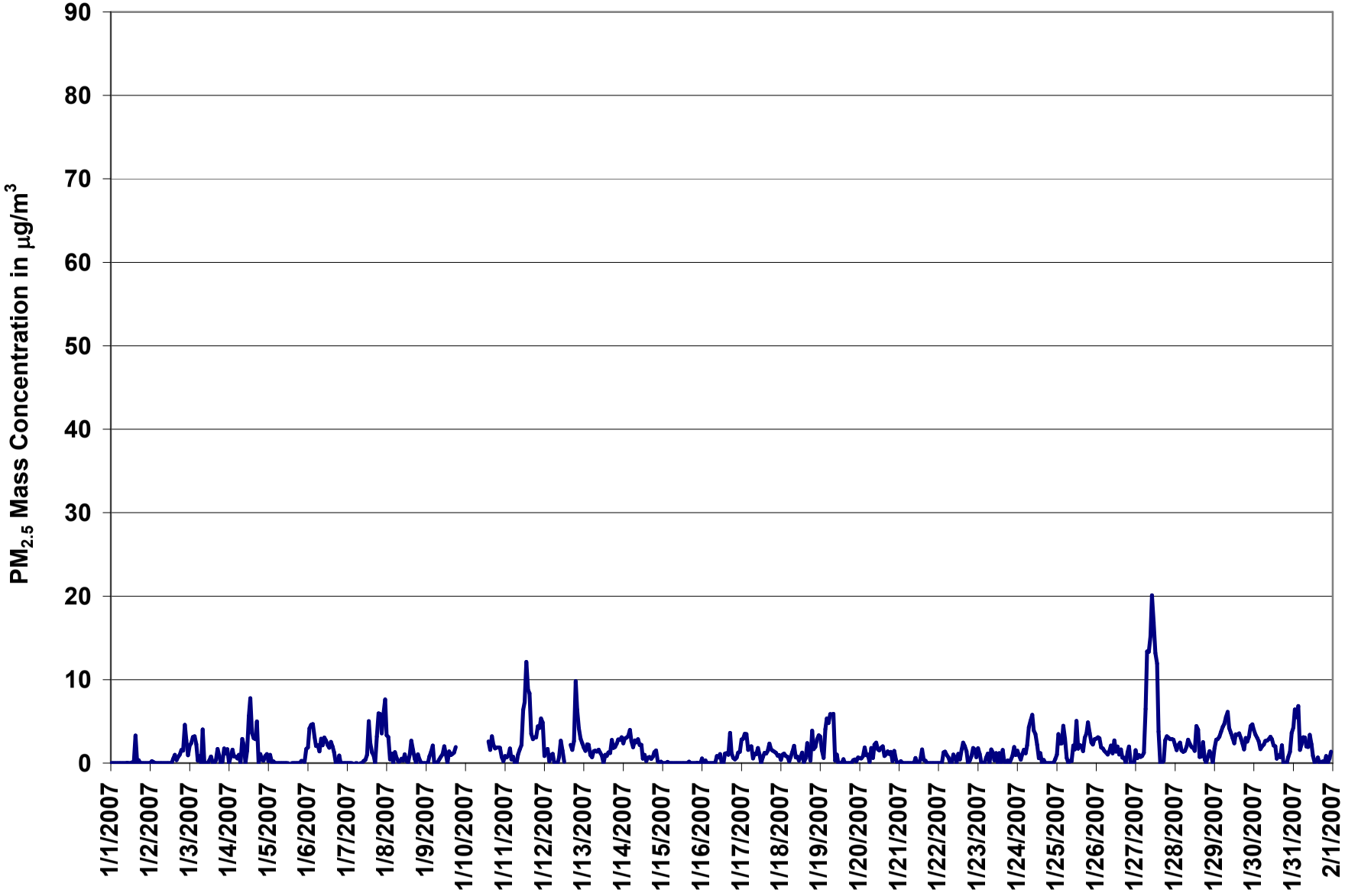


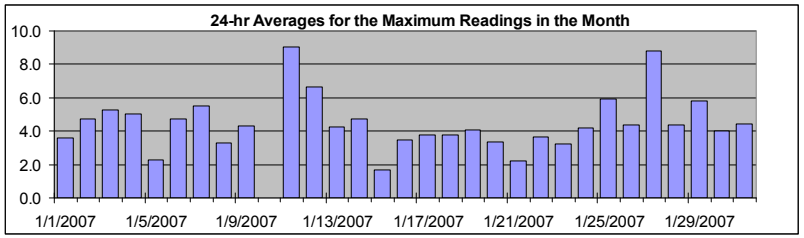
Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	35.1	µg/m³	3-Jan	8:00 9:00
Maximum 24-hr Value:	9.0	µg/m³	11-Jan	

AIC Time:	0 hrs	Operational Time:	719 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	96.6%

Percentile	99	95	75	50	25	5	1	Average / Median		Geomean
	20.1	9.7	5.3	3.8	2.5	1.2	0.5	4.5	4 µg/m˘	4.2 µg/m˘

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jan-07	0	2	2	2	1	6	3	3	2	4	4	2	4	4	3	18	2	4	3	2	1	4	4	4	3.6	18.3
2-Jan-07	5	5	4	3	1	2	6	1	5	5	5	3	3	3	5	5	4	5	5	7	8	11	6	5	4.7	10.7
3-Jan-07	4	4	7	6	5	1	3	2	35	0	0	5	6	7	7	5	7	5	6	1	2	4	3	3	5.2	35.1
4-Jan-07	2	3	3	2	2	2	2	2	5	6	2	5	10	12	10	12	6	13	6	4	3	3	4	3	5.0	13.4
5-Jan-07	3	3	4	3	3	0	2	1	0	2	3	1	2	D	6	3	2	2	0	1	3	2	2	3	2.2	6.4
6-Jan-07	4	5	7	8	6	5	5	5	6	4	7	6	5	6	5	6	5	3	2	4	2	2	2	2	4.8	8.2
7-Jan-07	1	2	1	1	D	1	1	D	1	1	2	2	3	9	6	5	4	3	8	9	9	7	19	24	5.5	23.9
8-Jan-07	6	7	3	3	1	6	3	3	2	4	1	4	2	4	5	5	3	3	4	4	3	2	1	1	3.3	6.5
9-Jan-07	2	1	3	5	4	2	4	4	4	5	5	8	3	8	4	5	5	4	7	N	N	N	N	N	4.3	8.4
10-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	8	6	7	6	4	4	4	4	4	3	N	7.9
11-Jan-07	5	5	4	6	5	6	3	1	5	3	7	18	19	17	14	22	9	12	9	9	10	8	11	9	9.0	22.2
12-Jan-07	6	5	6	5	6	5	5	2	2	3	7	6	3	X	X	X	14	7	11	15	10	8	6	6	6.6	15.4
13-Jan-07	5	3	5	5	4	4	4	3	5	4	3	3	3	3	5	5	5	5	4	4	5	5	6	4	4.3	6.1
14-Jan-07	5	5	5	7	6	4	4	6	4	4	5	9	4	5	4	5	5	4	4	5	4	3	1	3	4.7	8.9
15-Jan-07	1	1	2	3	2	0	1	2	1	1	2	1	2	1	2	3	2	2	2	1	2	3	2	1	1.7	2.9
16-Jan-07	4	3	3	4	2	3	4	3	3	5	5	4	2	2	4	4	3	7	4	3	2	3	3	3	3.5	6.9
17-Jan-07	5	5	5	6	4	4	4	2	4	4	4	4	2	2	4	4	4	5	4	3	3	3	3	3	3.8	6.0
18-Jan-07	2	3	3	3	3	2	2	4	7	2	3	2	4	4	2	2	5	6	2	8	6	4	5	6	3.8	8.0
19-Jan-07	5	3	3	7	8	8	10	8	10	3	4	2	1	1	3	2	2	2	2	2	3	2	3	2	4.1	10.4
20-Jan-07	3	3	3	3	3	3	2	4	3	5	6	4	4	4	4	2	3	3	3	3	3	4	3	2	3.4	5.7
21-Jan-07	1	3	2	1	1	1	2	3	2	2	3	1	1	3	6	3	3	2	1	2	2	3	2	1	2.2	6.4
22-Jan-07	1	2	2	4	5	3	5	2	1	5	2	2	4	2	6	7	5	4	3	2	5	6	4	5	3.7	6.6
23-Jan-07	5	5	2	3	1	2	3	2	4	4	3	4	4	5	2	4	3	2	2	2	3	3	7	4	3.3	7.1
24-Jan-07	4	3	2	4	4	5	5	7	9	8	7	7	6	4	6	4	3	2	1	1	2	2	2	3	4.2	8.7
25-Jan-07	5	7	5	5	10	9	6	3	3	5	6	5	22	5	4	4	3	5	5	6	6	5	4	6	5.9	21.9
26-Jan-07	6	7	7	3	3	5	5	3	4	5	5	6	6	5	3	3	2	3	1	3	8	7	1	2	4.3	8.2
27-Jan-07	4	3	3	2	3	4	9	21	22	18	24	20	16	16	9	2	1	2	6	6	6	4	5	4	8.8	23.5
28-Jan-07	4	3	4	4	3	3	3	4	5	5	4	5	4	11	11	4	3	6	4	3	3	3	4	2	4.4	11.1
29-Jan-07	5	5	5	6	10	7	7	8	8	5	5	5	5	6	6	5	4	4	4	6	5	4	7	7	5.8	9.9
30-Jan-07	5	5	5	4	4	3	4	5	4	4	4	5	4	4	2	3	4	4	2	3	3	3	3	6	4.0	6.4
31-Jan-07	6	11	10	14	6	4	5	7	5	4	5	5	4	1	2	3	1	1	1	1	2	2	3	4	4.4	13.8
Hourly Avg	3.8	4.0	4.1	4.4	4.1	3.7	4.2	4.2	5.6	4.4	4.8	5.3	5.3	5.6	5.3	5.4	4.1	4.4	3.9	4.1	4.3	4.0	4.3	4.4		
Hourly Max	6.2	10.8	9.7	13.8	10.4	8.9	10.4	20.7	35.1	18.5	23.5	20.4	21.9	17.0	14.4	22.2	14.2	13.4	10.9	15.4	10.3	10.7	19.0	23.9		

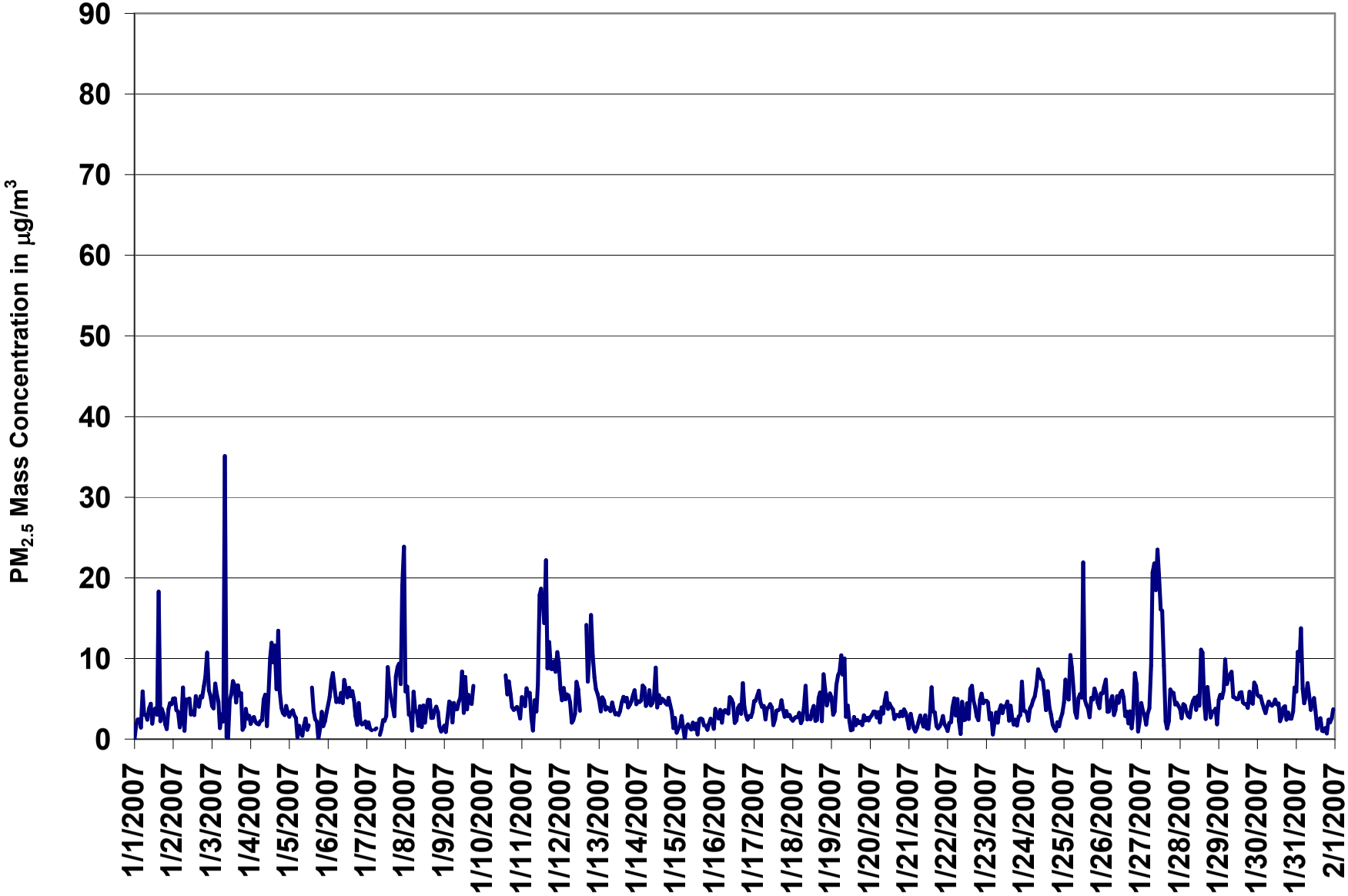
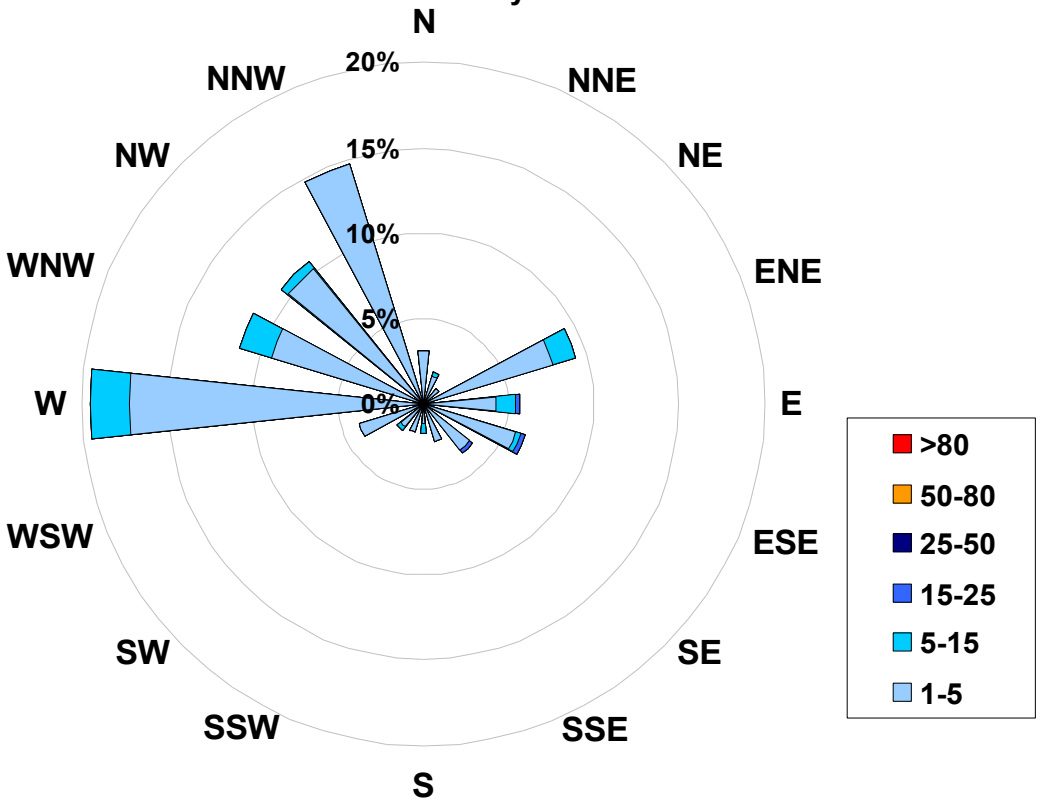


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	1%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	684
5	to	15	32
15	to	25	3
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			719

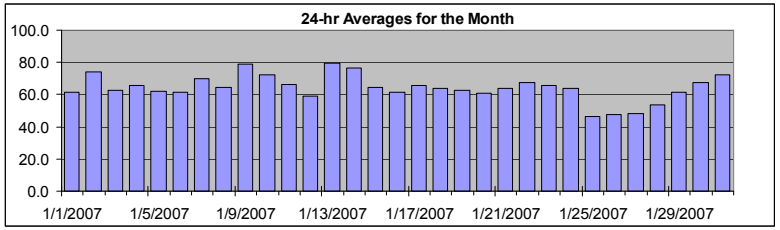
PASZA – Beaverlodge - Relative Humidity Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	95.4	%	24-Jan	8:00 9:00
Maximum 24-hr Value:	79.7	%	13-Jan	

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
	92.9	87.1	72.1	64.4	56.6	42.7	31.1	64.2 %	64.4 %

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**

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-Jan-07	61	56	58	59	57	53	57	57	56	59	57	57	59	59	62	64	71	74	70	64	65	66	69	65	61.5	74.1
2-Jan-07	61	63	62	63	68	68	69	71	71	67	69	70	66	66	75	84	87	92	93	94	90	81	76	74	74.2	93.5
3-Jan-07	72	68	64	63	63	63	64	64	68	69	59	53	52	53	53	61	59	57	61	63	69	68	68	66	62.4	71.8
4-Jan-07	66	70	71	70	75	76	75	77	74	73	69	61	52	47	48	48	54	60	67	69	68	67	70	71	65.8	76.8
5-Jan-07	68	64	59	51	56	55	55	56	56	58	57	59	59	57	57	60	64	67	70	71	71	71	76	72	62.1	75.7
6-Jan-07	75	78	78	70	64	65	65	62	60	61	56	52	50	46	43	48	54	60	65	69	66	64	64	62	61.5	78.1
7-Jan-07	65	68	68	67	64	75	88	84	83	76	72	70	72	63	57	59	66	77	72	59	56	60	59	93	69.7	93.1
8-Jan-07	93	91	92	93	92	83	64	60	58	60	56	50	53	56	54	51	51	51	58	59	58	58	57	54	64.7	93.4
9-Jan-07	54	50	55	57	69	88	90	91	90	90	88	87	86	87	88	87	81	80	80	79	79	79	78	78	78.8	90.6
10-Jan-07	78	77	76	75	75	75	74	75	75	72	72	72	70	69	68	69	69	69	69	69	69	70	72	75	72.3	77.8
11-Jan-07	76	75	75	75	72	73	72	72	73	73	72	58	62	56	40	53	59	66	67	66	66	65	63	55	66.0	75.6
12-Jan-07	55	54	57	57	56	59	64	61	63	65	60	57	56	54	53	55	57	58	58	59	63	64	65	69	59.1	69.4
13-Jan-07	78	88	90	90	89	87	86	88	85	83	80	71	66	62	56	52	73	83	85	85	84	86	83	83	79.7	90.2
14-Jan-07	83	83	82	81	82	83	81	82	81	81	81	79	74	74	68	69	78	78	78	75	68	67	64	63	76.4	83.0
15-Jan-07	65	68	66	64	63	66	66	66	67	66	63	63	61	59	61	65	64	60	62	63	66	65	65	66	64.2	68.5
16-Jan-07	67	65	65	63	64	64	64	67	65	66	61	60	55	57	51	50	54	58	58	61	61	62	65	71	61.4	70.8
17-Jan-07	73	74	78	75	72	73	74	74	77	77	77	68	43	47	48	46	50	57	59	64	69	69	67	68	65.7	77.6
18-Jan-07	67	68	67	69	68	68	67	64	60	56	51	49	48	52	56	55	59	65	69	71	72	75	76	83	63.9	83.5
19-Jan-07	78	72	73	75	79	82	85	87	79	65	55	49	44	36	46	43	49	54	56	57	63	61	60	58	62.9	86.8
20-Jan-07	61	62	63	65	67	66	68	72	73	75	65	48	55	49	43	46	48	56	61	62	63	64	64	68	61.0	74.8
21-Jan-07	70	68	66	71	73	72	67	64	64	66	67	58	59	56	57	58	58	60	60	60	58	63	67	73	63.9	73.4
22-Jan-07	76	75	76	78	83	83	83	78	73	72	68	65	59	51	51	53	56	60	62	64	63	66	65	59	67.6	83.5
23-Jan-07	59	61	64	62	60	61	65	67	71	71	67	63	58	61	63	64	64	63	66	66	64	67	81	83	65.6	83.4
24-Jan-07	88	91	90	91	90	92	93	95	95	95	93	70	61	46	42	38	35	35	30	30	32	33	34	37	64.0	95.4
25-Jan-07	34	36	41	45	50	63	66	54	49	45	43	43	41	43	40	39	40	46	47	48	48	49	50	50	46.3	65.7
26-Jan-07	52	54	49	50	54	53	54	55	55	53	48	43	32	36	33	32	35	48	46	46	53	51	52	54	47.5	55.1
27-Jan-07	56	63	67	66	66	62	61	63	66	59	48	49	48	40	28	25	27	25	28	31	42	43	42	47	47.9	67.1
28-Jan-07	50	51	51	52	54	55	58	62	65	59	49	41	54	50	37	44	48	54	59	56	57	61	62	62	53.8	65.0
29-Jan-07	63	63	65	68	74	75	78	75	78	70	60	55	49	46	42	39	47	55	57	66	65	61	62	63	61.4	78.2
30-Jan-07	66	68	68	68	70	72	74	73	75	73	66	62	60	59	56	48	49	64	64	69	72	83	79	79	67.3	83.3
31-Jan-07	81	85	86	86	84	70	66	64	64	66	68	65	65	66	65	67	68	71	74	72	74	72	75	81	72.3	86.2
Hourly Avg	67.4	68.1	68.5	68.4	69.5	70.3	70.8	70.2	70.1	68.4	64.5	59.6	57.1	54.9	52.9	53.9	57.3	61.3	62.9	63.4	64.3	64.9	65.5	67.2		
Hourly Max	93.4	90.9	92.0	92.6	92.4	91.8	92.7	94.8	95.4	94.9	93.3	87.3	86.3	87.1	87.6	87.4	87.1	92.0	93.4	93.5	90.0	85.9	83.4	93.1		

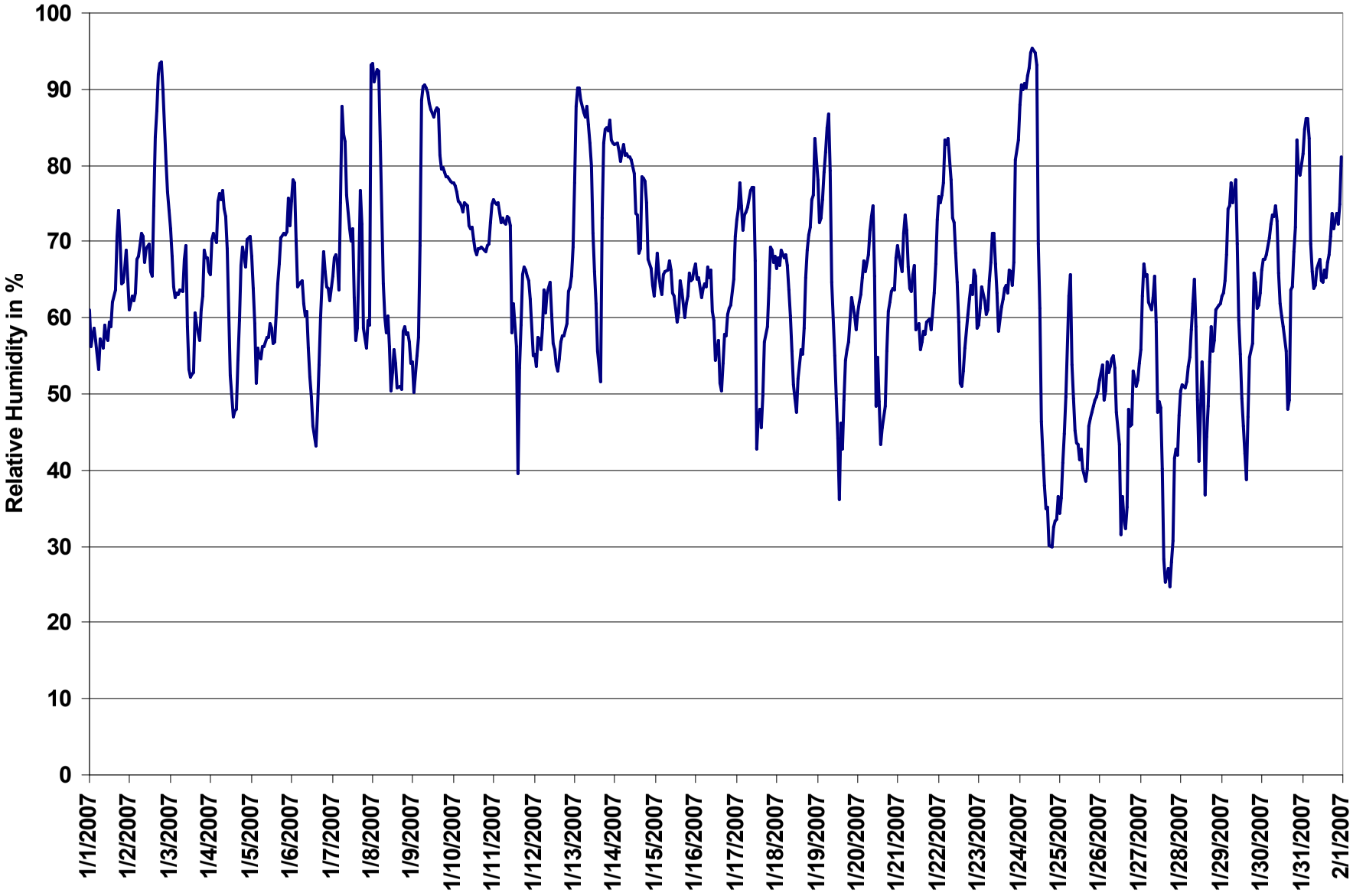


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

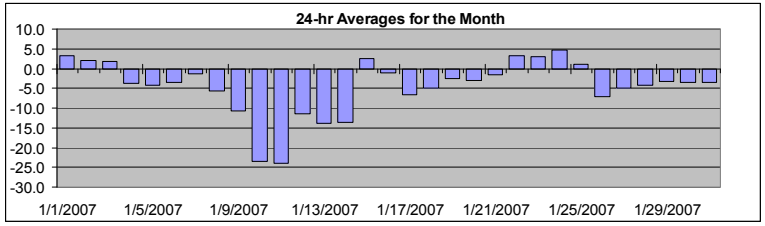
PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	10.2	°C	24-Jan	14:00 15:00
Maximum 24-hr Value:	4.6	°C	24-Jan	

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
	7.6	4.4	1.0	-3.4	-7.1	-22.6	-26.9	-4.5 °C	-3.4 °C

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	1	2	2	2	2	3	3	3	3	3	4	4	4	5	5	5	4	3	3	4	3	3	2	3	3.3	5.4
2-Jan-07	4	3	4	3	2	2	1	1	1	2	2	2	3	3	3	3	2	1	1	1	1	2	2	3	2.1	4.1
3-Jan-07	3	3	4	4	3	3	3	2	1	0	2	4	4	4	4	2	1	1	0	0	-2	-2	-2	-1	1.8	4.0
4-Jan-07	-1	-3	-3	-3	-4	-4	-4	-4	-3	-3	-2	-2	-1	-1	-1	-2	-3	-4	-5	-6	-6	-7	-8	-8	-3.7	-0.6
5-Jan-07	-8	-8	-8	-7	-8	-8	-8	-7	-6	-6	-5	-3	-1	1	1	-1	-2	-3	-2	-3	-2	-2	-2	-2	-4.2	0.6
6-Jan-07	-3	-2	-3	-3	-3	-4	-4	-4	-4	-4	-3	-2	-1	-1	-1	-2	-3	-4	-5	-6	-6	-6	-6	-5	-3.6	-0.9
7-Jan-07	-6	-6	-5	-5	-4	-3	-4	-4	-4	-3	-3	-2	-2	3	4	4	3	1	2	2	1	1	0	-4	-1.4	4.5
8-Jan-07	-4	-6	-6	-7	-8	-9	-7	-7	-7	-7	-7	-5	-4	-4	-3	-3	-3	-3	-6	-6	-6	-6	-6	-6	-5.6	-3.0
9-Jan-07	-6	-5	-5	-5	-6	-6	-6	-6	-6	-6	-6	-6	-5	-5	-6	-7	-16	-19	-20	-21	-21	-21	-22	-22	-10.6	-4.7
10-Jan-07	-22	-22	-22	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-24	-23	-24	-24	-24	-24	-24	-26	-26	-23.5	-22.1
11-Jan-07	-27	-26	-27	-28	-31	-31	-31	-31	-30	-28	-25	-23	-25	-24	-20	-24	-24	-23	-19	-18	-17	-16	-15	-13	-24.0	-13.1
12-Jan-07	-13	-13	-13	-13	-13	-14	-15	-14	-15	-15	-14	-13	-12	-11	-10	-10	-10	-9	-9	-7	-7	-7	-7	-7	-11.4	-6.8
13-Jan-07	-8	-8	-8	-8	-8	-9	-10	-11	-12	-14	-15	-15	-15	-14	-12	-11	-16	-18	-19	-19	-19	-21	-21	-21	-13.9	-7.5
14-Jan-07	-22	-21	-21	-23	-22	-21	-22	-21	-21	-20	-18	-17	-14	-12	-9	-9	-10	-10	-7	-5	-2	-1	0	1	-13.6	1.0
15-Jan-07	1	1	2	3	3	2	2	2	2	2	3	3	4	4	4	3	3	4	4	4	3	2	1	1	2.6	4.4
16-Jan-07	1	1	0	0	-1	-1	-1	-2	-1	-2	-1	0	1	0	1	0	-1	-2	-2	-3	-3	-3	-4	-6	-1.2	1.0
17-Jan-07	-6	-6	-6	-6	-6	-6	-6	-6	-7	-7	-8	-6	-1	-2	-3	-4	-6	-7	-8	-9	-11	-11	-10	-10	-6.5	-0.7
18-Jan-07	-10	-10	-9	-10	-9	-9	-8	-6	-4	-3	-2	-2	-1	-1	-1	-1	-2	-3	-4	-4	-5	-5	-5	-8	-5.0	-0.7
19-Jan-07	-6	-5	-5	-6	-7	-7	-9	-9	-6	-1	1	2	2	5	2	2	1	-1	-1	-2	-3	-3	-3	-2	-2.6	4.7
20-Jan-07	-3	-3	-3	-4	-4	-4	-4	-5	-6	-7	-5	0	-2	0	2	2	0	-2	-3	-3	-4	-4	-5	-6	-3.0	2.1
21-Jan-07	-6	-5	-4	-6	-7	-7	-6	-5	-4	-5	-5	-3	-3	0	2	3	4	3	3	3	3	2	2	1	-1.6	3.5
22-Jan-07	0	1	0	0	0	0	0	1	2	2	2	3	5	7	8	7	7	5	5	5	5	4	4	5	3.2	7.8
23-Jan-07	5	4	4	4	4	4	3	2	1	1	2	3	4	3	3	3	3	4	3	3	3	3	2	3	3.1	4.8
24-Jan-07	3	2	3	2	2	1	1	0	0	1	0	5	7	10	10	9	10	8	9	8	6	6	5	4	4.6	10.2
25-Jan-07	5	5	6	6	6	5	4	3	2	2	2	3	2	1	0	1	0	-2	-3	-3	-4	-5	-5	-6	1.1	6.3
26-Jan-07	-6	-7	-6	-8	-8	-8	-9	-10	-10	-9	-8	-7	-2	-3	-2	-2	-3	-7	-7	-8	-10	-10	-10	-10	-7.1	-1.6
27-Jan-07	-11	-12	-13	-13	-13	-12	-11	-11	-12	-10	-7	-7	-6	-4	2	6	5	5	4	3	1	0	0	-2	-4.9	5.6
28-Jan-07	-3	-4	-4	-4	-4	-5	-6	-7	-8	-6	-4	-2	-6	-4	0	-2	-3	-4	-5	-4	-4	-5	-4	-4	-4.2	0.2
29-Jan-07	-4	-5	-5	-6	-7	-6	-7	-7	-7	-6	-4	-2	-1	1	2	3	1	-2	-1	-3	-3	-2	-2	-3	-3.2	3.2
30-Jan-07	-3	-4	-4	-3	-4	-4	-5	-5	-5	-5	-3	-2	-2	-1	0	2	2	-3	-3	-4	-5	-8	-7	-7	-3.4	2.2
31-Jan-07	-8	-9	-9	-9	-9	-6	-3	-1	-1	-2	-2	-1	0	-1	-1	-1	-1	-2	-2	-2	-3	-3	-4	-4	-3.5	-0.2
Hourly Avg	-5.2	-5.3	-5.4	-5.6	-6.0	-6.1	-6.2	-6.2	-6.2	-5.8	-4.9	-3.7	-3.0	-2.0	-1.2	-1.5	-2.7	-3.7	-3.9	-4.2	-4.5	-4.8	-5.0	-5.3		
Hourly Max	4.8	5.2	6.3	6.3	6.2	4.6	3.7	3.1	2.7	3.1	3.6	4.6	6.6	9.5	10.2	9.4	9.6	8.1	8.6	7.9	6.4	5.8	5.4	4.9		

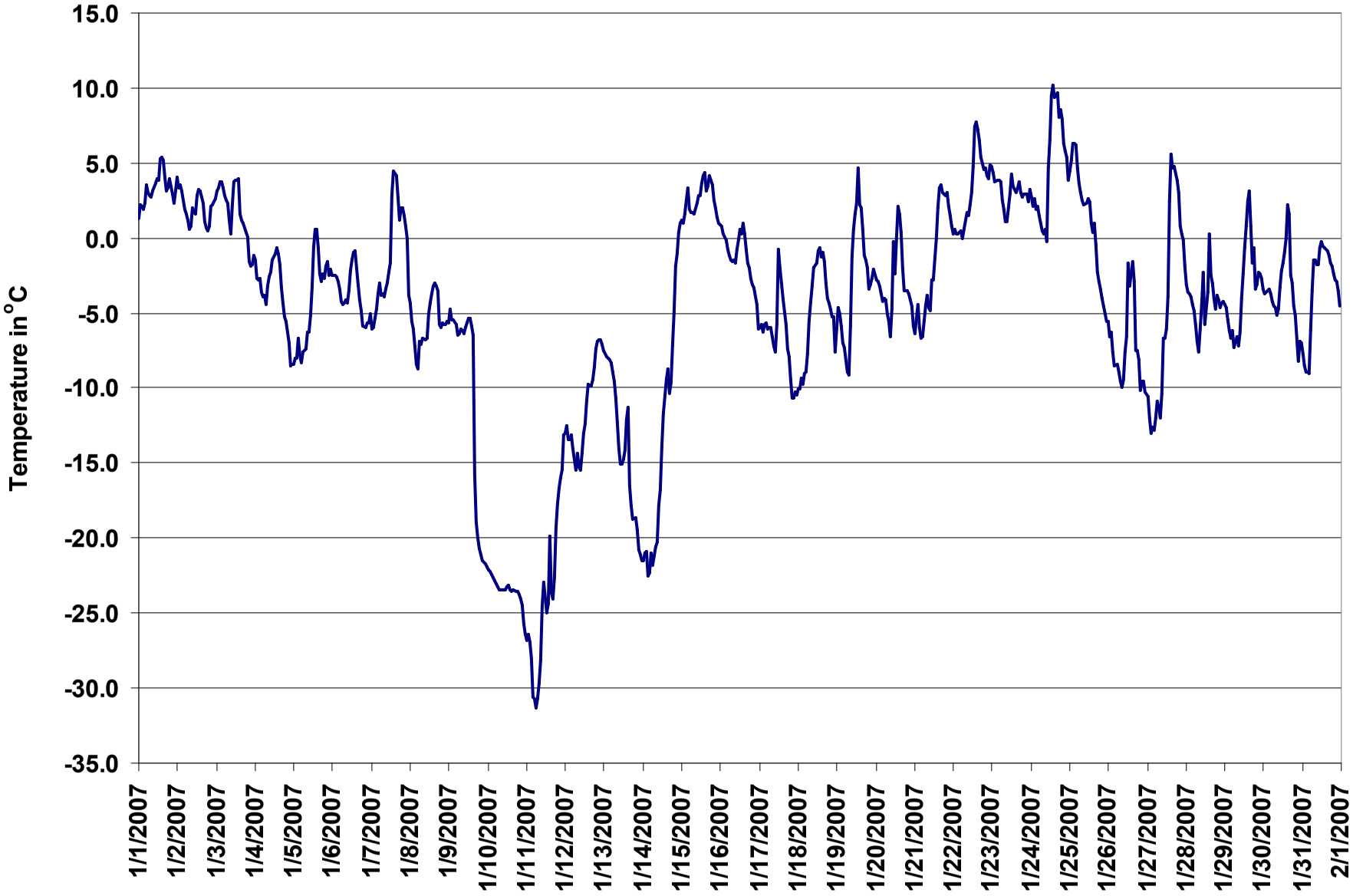


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

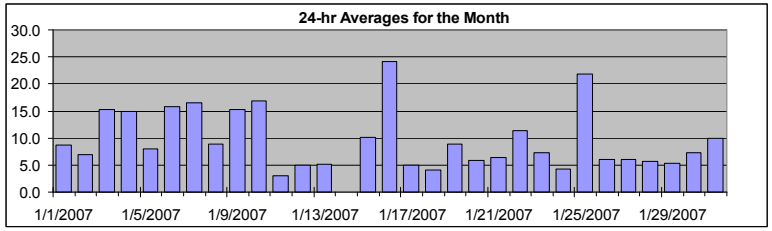
PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	40.0	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	24.2	km/hr	16-Jan	

Calm Time:	4 hrs	**1%** calms	Operational Time: 728 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 98.4%

Percentile	99	95	75	50	25	5	1	AverageS
	33.5	28.0	12.7	6.5	3.6	1.9	1.2	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**

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-hr Scalar Average	Daily Max
1-Jan-07	4	7	5	5	9	8	4	5	9	10	5	4	4	6	20	27	23	10	8	6	5	6	9	9	8.7	26.7
2-Jan-07	8	8	13	4	4	3	2	3	3	3	5	8	7	7	10	9	7	4	2	2	3	3	16	27	6.9	27.4
3-Jan-07	34	32	34	32	30	26	25	27	20	12	7	5	8	10	11	7	8	8	10	5	2	4	4	6	15.3	34.2
4-Jan-07	6	2	2	5	2	2	4	5	12	11	13	24	26	31	31	27	28	26	22	22	18	9	13	15	14.8	31.3
5-Jan-07	10	10	9	10	5	4	5	5	5	6	6	9	24	19	16	12	4	6	6	4	4	5	2	5	7.9	24.4
6-Jan-07	10	9	14	14	17	14	12	15	15	18	20	25	26	25	30	27	22	18	15	13	7	5	4	5	15.8	29.9
7-Jan-07	5	3	6	6	6	13	14	16	15	9	4	4	9	22	25	24	14	10	21	37	40	37	38	17	16.5	40.0
8-Jan-07	18	18	7	5	5	8	10	11	11	12	5	5	12	17	17	12	10	6	4	5	5	4	3	4	8.9	17.9
9-Jan-07	6	7	5	8	11	9	11	11	10	9	5	4	5	9	11	15	30	30	28	28	29	30	29	29	15.3	30.2
10-Jan-07	27	26	27	25	23	22	20	19	18	19	19	20	19	20	18	17	14	12	10	9	8	7	3	2	16.8	27.0
11-Jan-07	2	5	3	3	1	calm	3	2	4	2	1	2	2	1	calm	3	3	5	5	5	3	2	4	5	3.0	5.3
12-Jan-07	5	7	7	9	5	4	3	3	2	1	2	1	3	4	3	2	3	3	5	10	11	9	9	6	4.9	11.1
13-Jan-07	7	5	5	4	6	7	6	6	5	8	11	9	8	6	3	2	4	4	1	1	3	3	N	N	5.2	11.2
14-Jan-07	N	N	N	N	N	N	N	N	N	N	2	1	2	4	4	2	2	4	3	4	10	9	13	10	N	13.0
15-Jan-07	12	11	11	9	18	7	4	4	5	9	6	7	7	7	7	5	7	11	10	17	18	17	17	16	10.1	18.3
16-Jan-07	22	28	25	20	22	24	25	32	31	31	27	32	32	33	26	25	27	24	24	21	19	17	9	4	24.2	33.3
17-Jan-07	4	5	4	6	7	6	4	5	4	3	2	2	3	2	2	5	14	13	11	6	2	3	3	2	4.9	14.4
18-Jan-07	3	3	3	2	2	3	4	6	7	10	10	4	3	3	3	3	3	4	3	2	5	4	4	2	4.0	10.4
19-Jan-07	3	3	3	3	7	3	3	4	6	15	20	23	15	8	17	21	16	16	9	4	2	4	3	5	8.9	22.8
20-Jan-07	3	1	1	2	3	4	3	3	4	3	4	2	4	5	9	13	12	10	8	13	11	10	8	3	5.9	13.0
21-Jan-07	3	5	2	2	4	5	3	4	3	3	2	2	4	5	18	18	12	13	8	7	8	8	8	6	6.4	18.3
22-Jan-07	4	2	6	5	4	3	4	3	2	3	2	3	2	7	18	28	26	20	18	16	26	29	17	23	11.4	29.1
23-Jan-07	24	24	20	19	15	15	5	3	3	2	2	2	3	3	4	3	4	4	3	4	3	3	6	4	7.3	23.7
24-Jan-07	3	3	3	4	3	2	3	3	1	3	4	2	3	4	6	15	5	11	5	4	5	5	4	3	4.3	15.3
25-Jan-07	4	17	21	25	29	34	34	33	29	32	32	30	31	25	22	14	18	16	16	16	14	11	9	8	21.8	34.0
26-Jan-07	9	8	8	8	8	9	7	7	6	8	8	3	2	6	3	2	2	5	5	4	6	9	8	3	6.1	9.2
27-Jan-07	3	5	2	calm	calm	3	2	2	2	1	1	1	2	4	12	17	14	11	7	7	10	7	11	9	6.0	16.9
28-Jan-07	10	9	6	6	8	7	5	5	5	4	2	2	4	5	2	3	4	5	6	7	6	9	8	6	5.6	10.3
29-Jan-07	5	6	3	2	7	5	5	2	3	6	6	9	8	6	5	3	4	6	4	2	4	8	10	10	5.4	10.1
30-Jan-07	11	12	10	9	7	7	7	7	8	10	11	13	13	13	10	4	3	3	4	3	3	3	3	2	7.3	13.4
31-Jan-07	2	2	2	2	5	11	16	21	15	15	12	9	7	13	11	11	9	8	10	12	11	11	11	11	9.9	21.0
1-hr Average	8.9	9.4	9.0	8.7	9.5	9.2	8.3	9.2	8.7	9.3	8.4	8.7	9.6	10.6	12.5	12.1	11.4	10.5	9.4	9.6	9.8	9.4	9.5	8.6		
Hourly Max	34.2	32.0	33.5	31.7	29.8	33.9	34.0	33.1	31.1	31.9	32.5	32.0	32.0	33.3	31.3	28.2	29.7	29.8	28.2	36.8	40.0	36.9	38.1	28.6		

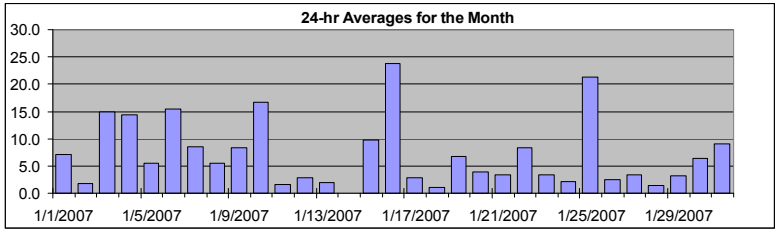
PASZA - Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	40.0	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	23.8	km/hr	16-Jan	

Calm Time:	18 hrs **2%** calms	Operational Time:	714 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	98.4%

Percentile	99	95	75	50	25	5	1	AverageV
	33.5	28.0	12.7	6.4	3.1	1.4	1.0	31.3 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**

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-hr Vector Average	Daily Max
1-Jan-07	2	5	4	5	9	7	2	4	9	10	5	4	3	6	20	27	23	10	8	5	5	3	9	9	7.1	26.6
2-Jan-07	8	7	13	4	3	3	2	2	2	3	5	8	6	7	9	9	7	4	1	1	3	3	15	27	1.9	27.3
3-Jan-07	34	32	34	32	30	26	24	27	20	12	7	4	8	9	11	7	7	8	10	5	2	4	4	6	14.9	34.1
4-Jan-07	6	calm	1	5	2	2	3	5	12	10	13	24	26	31	31	27	28	26	22	22	18	9	13	15	14.4	31.3
5-Jan-07	10	10	8	9	4	3	5	5	5	6	6	7	24	19	16	12	4	5	4	4	3	4	1	5	5.6	24.4
6-Jan-07	9	9	14	14	17	13	12	14	15	17	20	25	26	25	30	27	22	18	15	13	7	5	3	4	15.4	29.8
7-Jan-07	4	3	6	6	6	13	14	16	15	9	4	4	8	22	25	24	14	10	21	37	40	37	38	16	8.6	40.0
8-Jan-07	18	18	7	5	5	8	10	11	11	12	3	4	12	17	17	12	10	6	3	5	5	4	3	3	5.6	17.6
9-Jan-07	6	7	4	8	11	9	11	11	10	9	4	3	5	9	11	14	30	30	28	28	29	30	29	29	8.3	30.1
10-Jan-07	27	26	27	25	23	22	20	19	18	19	19	20	19	19	18	17	14	12	10	9	8	7	2	2	16.7	27.0
11-Jan-07	2	5	3	1	1	calm	3	2	3	2	1	calm	2	calm	calm	3	3	5	5	5	3	2	2	5	1.6	5.2
12-Jan-07	5	7	7	9	5	3	3	3	2	1	2	1	3	3	3	2	3	3	5	10	11	9	9	6	2.9	11.1
13-Jan-07	7	5	5	4	6	7	6	6	4	8	11	9	8	6	3	2	4	4	calm	calm	2	2	N	N	2.0	11.2
14-Jan-07	N	N	N	N	N	N	N	N	N	N	1	1	2	4	4	1	2	4	2	2	10	9	13	10	N	13.0
15-Jan-07	12	11	11	9	18	7	3	4	5	9	6	7	6	7	6	5	6	10	10	17	18	17	17	16	9.7	18.3
16-Jan-07	22	28	25	20	22	24	25	32	31	31	27	32	32	33	26	25	27	24	24	21	19	17	8	1	23.8	33.2
17-Jan-07	3	5	4	6	7	6	3	4	2	2	1	1	2	2	2	5	14	13	11	5	2	3	3	2	2.8	14.4
18-Jan-07	3	2	1	2	1	2	2	6	7	10	10	3	2	3	1	3	2	4	3	1	3	3	4	2	1.0	10.3
19-Jan-07	3	3	1	3	5	1	3	3	3	15	20	23	15	8	17	21	16	16	9	2	1	4	calm	5	6.8	22.7
20-Jan-07	1	calm	calm	1	3	4	1	2	2	3	4	2	4	2	9	13	12	9	8	13	11	10	8	3	3.8	13.0
21-Jan-07	2	3	2	1	4	5	3	3	2	3	2	2	4	5	18	18	11	13	7	6	7	8	8	5	3.4	18.2
22-Jan-07	4	1	6	5	4	3	3	3	2	3	2	3	calm	7	18	28	26	20	18	16	26	29	17	23	8.4	29.1
23-Jan-07	24	23	19	18	15	14	3	2	3	2	2	1	3	3	3	3	4	4	3	4	3	2	5	2	3.3	23.6
24-Jan-07	1	1	3	3	3	2	3	3	calm	2	4	1	3	4	4	15	5	10	4	3	4	5	4	2	2.2	15.1
25-Jan-07	3	17	21	25	29	34	34	33	29	32	32	30	31	24	22	14	17	16	16	16	14	11	9	8	21.3	33.9
26-Jan-07	9	8	8	8	8	9	7	7	6	8	8	2	1	6	calm	2	1	5	5	3	6	9	7	3	2.5	9.0
27-Jan-07	1	3	1	calm	calm	2	1	1	calm	1	1	calm	1	4	12	17	14	10	5	7	10	7	11	9	3.4	16.8
28-Jan-07	10	9	6	6	8	7	4	5	4	2	2	1	4	5	1	3	4	4	5	7	6	8	8	6	1.5	10.3
29-Jan-07	5	6	3	2	1	3	3	2	2	6	6	9	8	6	3	3	4	6	3	1	4	8	10	10	3.2	10.0
30-Jan-07	11	12	10	9	7	7	7	7	8	10	11	13	13	13	10	3	3	2	4	2	calm	1	2	2	6.4	13.4
31-Jan-07	2	2	2	2	4	11	16	21	15	15	12	9	7	13	11	11	9	8	10	12	11	11	11	11	9.1	20.9
1-hr Vector	5.7	6.1	5.5	5.2	5.5	4.7	3.8	3.7	3.8	4.7	3.8	4.6	5.6	6.5	9.2	9.0	7.8	6.6	5.9	5.7	5.8	5.5	5.5	5.3		
Hourly Max	34.1	31.9	33.5	31.7	29.8	33.9	33.9	33.0	31.1	31.7	32.4	32.0	31.9	33.2	31.3	28.1	29.6	29.8	28.1	36.7	40.0	36.9	37.6	28.5		

PASZA - Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Calm Time:	0 hrs	0% calms		Operational Time:				732 hrs	
Calibration Time:		0 hrs		AMD Operational Uptime:				98.4%	
Percentile	99	95	75	50	25	5	1	Average	
	354.3	336.3	286.5	253.4	120.6	62.5	12.8	284 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 / 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	WD Sector
1-Jan-07	246	236	178	189	195	199	158	134	152	167	202	188	203	249	253	259	253	240	231	195	228	212	225	257	224	SW
2-Jan-07	254	263	257	162	166	171	80	150	93	106	99	102	117	103	95	113	110	209	274	58	71	322	254	256	189	S
3-Jan-07	262	271	276	275	278	277	274	274	266	267	271	266	265	258	258	241	261	257	247	227	207	264	198	243	267	W
4-Jan-07	222	153	185	217	201	188	236	231	255	255	252	261	263	265	259	261	261	261	253	256	255	245	260	265	256	WSW
5-Jan-07	257	271	261	256	197	174	182	108	134	131	162	187	244	243	243	237	215	220	200	92	148	233	334	318	228	SW
6-Jan-07	285	309	291	294	288	279	276	280	278	278	278	276	278	283	283	280	273	271	269	265	248	263	279	193	278	W
7-Jan-07	148	125	125	137	103	131	124	133	135	138	128	212	229	278	282	280	275	234	263	280	282	282	287	323	265	W
8-Jan-07	324	308	298	268	225	281	272	257	236	237	164	194	246	258	267	270	294	322	106	97	94	114	100	115	268	W
9-Jan-07	104	87	142	134	127	115	115	114	113	113	94	11	53	46	25	358	333	336	335	329	327	325	326	324	354	N
10-Jan-07	322	319	323	323	323	325	327	329	331	328	327	327	330	326	326	328	331	332	330	329	322	313	326	53	326	NW
11-Jan-07	49	47	44	335	223	158	142	115	89	129	77	270	276	72	234	78	80	65	74	66	73	73	297	304	58	ENE
12-Jan-07	301	304	335	311	284	296	71	82	121	74	79	88	97	81	50	81	73	71	319	301	293	303	317	334	326	NW
13-Jan-07	323	314	299	318	15	14	360	49	105	120	125	124	133	122	72	128	107	92	256	238	289	39	N	N	74	ENE
14-Jan-07	N	N	N	N	N	N	N	N	N	N	118	124	74	74	77	105	85	64	62	49	280	268	278	287	N	-
15-Jan-07	273	253	261	259	270	251	245	250	270	297	308	252	277	299	254	206	243	280	257	266	272	272	262	256	266	W
16-Jan-07	271	266	267	275	262	250	258	266	270	269	271	272	275	269	277	283	277	274	281	280	281	284	284	350	272	W
17-Jan-07	14	321	339	2	333	314	337	347	346	273	234	72	241	114	94	253	272	267	265	256	71	72	64	80	304	NW
18-Jan-07	75	109	155	105	116	77	54	294	286	284	282	41	90	307	358	93	97	57	75	84	52	108	73	134	34	NE
19-Jan-07	106	95	191	187	307	107	177	88	300	280	276	278	273	269	271	277	270	271	278	251	134	64	309	292	274	W
20-Jan-07	328	239	128	154	236	274	291	109	219	81	68	153	67	356	276	282	279	263	247	264	256	247	244	203	263	W
21-Jan-07	170	269	270	153	116	104	100	100	157	218	113	146	57	315	275	273	282	272	297	299	302	245	216	205	263	W
22-Jan-07	196	192	117	110	115	109	116	88	118	103	143	166	208	276	277	267	270	276	272	269	270	268	269	277	265	W
23-Jan-07	276	267	263	272	285	281	242	196	179	78	76	123	164	78	125	106	100	108	159	108	118	108	63	104	260	W
24-Jan-07	67	329	145	161	139	209	199	231	215	276	65	114	82	73	245	247	201	230	182	119	154	162	182	154	192	SSW
25-Jan-07	326	286	270	267	278	266	269	272	284	286	287	289	288	299	296	306	300	294	297	296	295	299	308	311	286	WNW
26-Jan-07	314	15	12	359	346	346	337	337	329	335	331	222	265	289	205	131	152	75	81	126	109	102	134	192	359	N
27-Jan-07	229	61	92	201	218	78	94	80	73	102	131	91	107	63	292	288	285	297	327	14	23	348	8	341	336	NNW
28-Jan-07	323	322	321	326	334	325	331	354	305	352	98	163	61	64	166	87	109	116	86	110	125	131	137	145	38	NE
29-Jan-07	162	152	185	224	330	326	336	281	21	336	358	338	340	320	292	224	76	58	59	281	313	324	327	328	333	NNW
30-Jan-07	337	336	335	330	331	331	326	335	340	324	329	323	328	319	319	318	335	330	351	8	118	140	104	98	332	NNW
31-Jan-07	113	175	79	66	310	327	322	326	335	343	344	6	355	10	1	346	353	354	348	348	344	340	344	327	344	NNW
Hourly Avg	287	289	281	280	285	283	282	286	278	284	290	279	278	290	281	277	282	283	284	288	288	286	286	288		

PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs **0%** calms	Operational Time:	732 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	98.4%

Percentile	99	95	75	50	25	5	1
	53.0	38.7	19.8	8.5	4.2	2.5	2.0

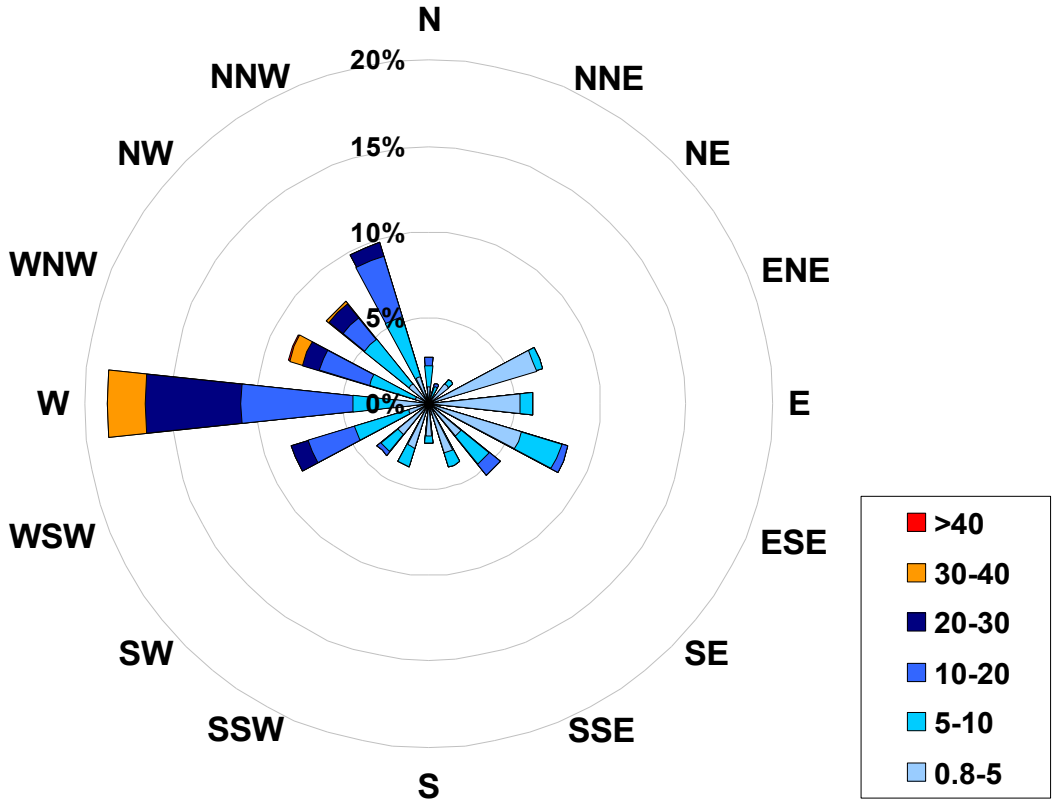
Status Flag Characters

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	Daily Maximum
1-Jan-07	63	37	15	22	5	17	42	18	5	5	27	15	17	13	6	4	2	40	5	25	17	37	12	8	63.3
2-Jan-07	7	12	8	25	26	16	27	31	43	38	14	6	12	19	11	4	35	14	34	31	9	18	9	4	43.4
3-Jan-07	2	3	2	2	2	2	2	2	3	7	25	13	19	8	6	8	10	6	5	16	23	32	10	9	32.5
4-Jan-07	6	36	33	13	13	18	15	7	3	5	4	3	3	3	2	5	2	2	3	2	2	3	4	3	36.2
5-Jan-07	3	8	9	10	16	13	11	8	9	13	10	12	2	2	5	5	15	31	28	18	26	17	28	15	30.6
6-Jan-07	11	4	2	3	2	3	3	3	4	3	3	3	3	3	3	3	3	3	8	2	15	27	29	15	28.9
7-Jan-07	16	15	7	7	14	6	3	5	5	9	9	21	8	23	4	4	7	4	5	10	7	3	6	8	23.0
8-Jan-07	8	4	7	9	9	27	7	4	6	9	30	19	8	4	3	5	4	6	41	13	10	10	10	11	41.3
9-Jan-07	6	8	27	12	2	3	3	3	4	3	28	20	10	4	4	7	4	4	4	4	4	3	4	3	28.1
10-Jan-07	8	4	3	4	4	5	4	3	4	4	4	3	4	4	5	3	4	4	6	6	6	4	10	34	33.9
11-Jan-07	28	9	34	61	20	26	15	22	9	19	34	36	33	15	44	8	10	7	6	5	6	14	26	5	61.2
12-Jan-07	15	6	6	6	8	26	11	9	14	41	14	51	6	5	9	19	11	9	16	3	3	4	6	7	50.7
13-Jan-07	5	5	4	6	10	7	8	6	31	6	3	3	4	8	13	15	6	6	49	44	29	28	N	N	49.3
14-Jan-07	N	N	N	N	N	N	N	N	N	N	11	18	10	10	16	26	24	19	31	30	5	23	4	6	31.3
15-Jan-07	4	3	4	7	4	9	23	37	12	5	4	8	6	17	14	7	12	14	28	3	3	7	3	3	37.3
16-Jan-07	4	3	3	4	4	3	3	2	2	3	3	2	3	3	3	3	3	3	2	2	2	2	26	29	29.1
17-Jan-07	16	9	20	15	7	4	36	25	21	33	28	32	13	16	16	39	3	2	4	22	11	14	6	9	39.2
18-Jan-07	8	20	34	28	22	20	50	14	15	5	6	31	29	36	31	15	39	10	17	35	20	26	5	16	50.3
19-Jan-07	10	8	20	34	34	49	22	28	17	7	3	3	5	14	3	3	4	3	19	42	43	7	36	5	49.4
20-Jan-07	33	29	39	35	22	45	25	19	24	19	14	26	14	22	7	2	3	7	6	9	3	7	6	16	44.7
21-Jan-07	25	27	19	36	17	5	18	21	33	10	29	22	47	16	8	2	5	4	8	20	10	5	5	6	46.6
22-Jan-07	9	29	6	10	9	20	16	15	28	24	25	15	53	10	5	5	4	4	5	5	3	2	3	4	53.3
23-Jan-07	3	3	2	5	3	28	16	26	13	21	9	30	17	17	17	8	6	8	12	5	18	17	42	53	53.2
24-Jan-07	25	48	15	10	15	24	46	20	31	57	31	35	34	16	34	8	7	27	24	15	17	9	8	34	57.2
25-Jan-07	33	4	3	3	4	4	4	3	3	4	3	3	3	4	3	5	3	2	2	2	2	3	4	5	32.9
26-Jan-07	10	14	5	7	4	5	4	4	4	5	4	15	36	11	41	20	24	8	6	10	5	5	10	17	41.1
27-Jan-07	41	35	40	45	55	39	34	28	52	31	52	52	55	22	12	3	5	5	37	15	7	9	5	5	55.0
28-Jan-07	3	3	3	4	3	4	12	30	29	32	18	20	45	9	17	18	11	48	23	4	4	7	5	8	47.6
29-Jan-07	16	11	22	20	21	25	36	22	33	11	11	6	8	7	24	8	22	4	25	54	37	5	3	3	54.2
30-Jan-07	3	3	4	3	3	4	5	8	8	3	3	3	5	3	3	13	34	29	7	28	31	24	22	29	33.7
31-Jan-07	19	21	26	18	17	5	4	4	6	5	6	9	11	8	8	8	9	10	9	8	7	7	8	5	25.6
Hourly Max	63	48	40	61	55	49	50	37	52	57	52	52	55	36	44	39	39	48	49	54	43	37	42	53	

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



Calms:	**1%**

Frequency Distribution of Wind in km/hr			
Range			**Frequency (hrs)**
0.8	<	5	292
5	to	10	196
10	to	20	147
20	to	30	69
30	to	40	23
	>	40	1
Total Non-Zero Values			728

PASZA – Portable - Falher Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

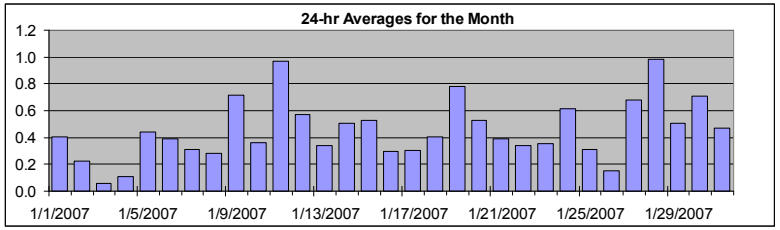
Station: Portable-Falher
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	2.4	ppb	11-Jan	13:00 14:00
Maximum 24-hr Average:	1.0	ppb	28-Jan	



AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.2	0.5	0.4	0.2	0.0	0.0	0.5 ppb	0.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Day	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-Jan-07	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0.4	1.1
2-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0.2	0.6
3-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.2
4-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.4
5-Jan-07	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	A	0	0	0	0	0	0.4	0.9
6-Jan-07	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.7
7-Jan-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.9
8-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.4
9-Jan-07	0	1	0	0	0	0	0	0	0	1	2	2	1	2	A	1	1	0	0	0	0	1	1	1	0.7	2.0
10-Jan-07	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0.4	1.4
11-Jan-07	1	1	1	1	0	0	0	0	0	1	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1.0	2.4
12-Jan-07	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	1	2	1	1	0	0	0	0	1	0.6	2.4
13-Jan-07	1	1	1	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
14-Jan-07	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0.5	0.9
15-Jan-07	1	1	0	0	0	1	1	1	A	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.5	0.9
16-Jan-07	0	0	0	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.6
17-Jan-07	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	0.7
18-Jan-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.9
19-Jan-07	1	1	1	2	A	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0.8	1.8
20-Jan-07	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.4
21-Jan-07	0	0	A	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	0.4	1.0
22-Jan-07	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.3	0.7
23-Jan-07	A	1	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	1	1	1	0	0	0.4	0.7
24-Jan-07	0	1	0	A	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.6	1.2
25-Jan-07	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
26-Jan-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
27-Jan-07	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.2
28-Jan-07	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1.0	1.7
29-Jan-07	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	A	1	1	0.5	1.5
30-Jan-07	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	2.1
31-Jan-07	0	0	0	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.1
Hourly Avg	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.6		
Hourly Max	2.1	1.9	1.5	1.8	1.2	1.4	1.0	1.1	1.2	1.0	2.0	1.5	1.1	2.4	2.2	1.5	2.4	1.2	1.2	1.4	1.4	1.2	1.2	1.7		

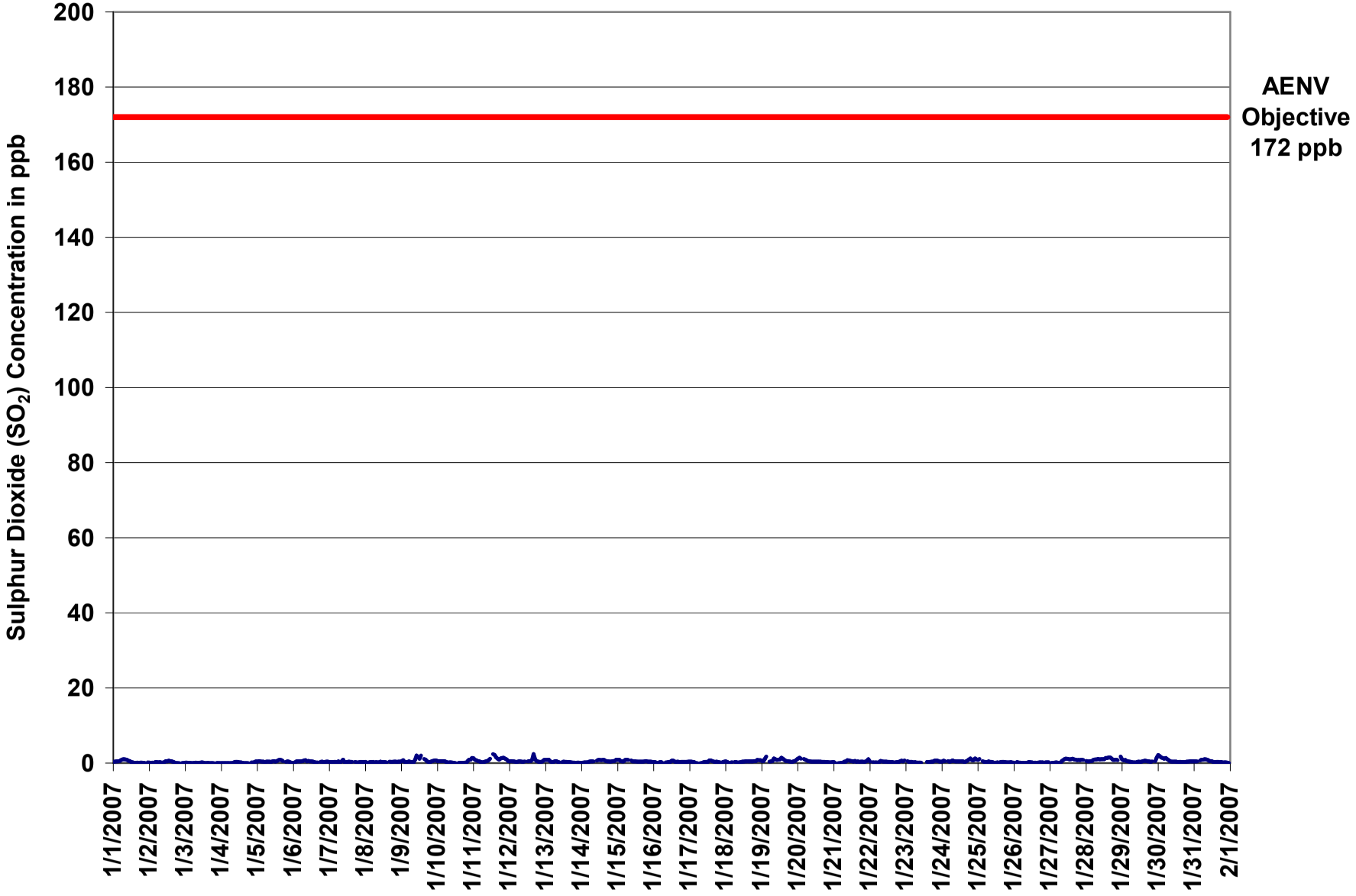


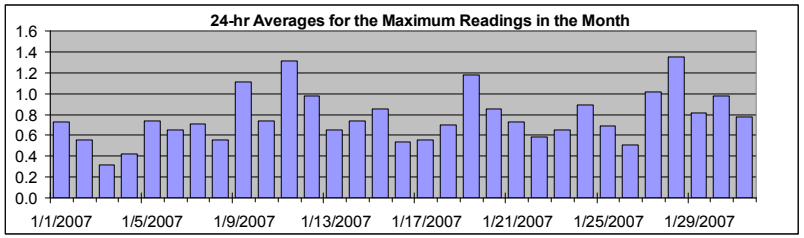
Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	5.4	ppb	7-Jan	9:00 10:00
Maximum 24-hr Value:	1.3	ppb	28-Jan	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.5	1.0	0.5	0.5	0.4	0.2	0.8 ppb	0.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0.7	1.5
2-Jan-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0	0.6	1.0
3-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
4-Jan-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0.4	0.9
5-Jan-07	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	0.7	1.4
6-Jan-07	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0	1	1	0.7	1.0
7-Jan-07	0	0	0	0	1	0	1	0	1	5	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0.7	5.4
8-Jan-07	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	A	1	0	1	1	1	0	0	1	0.6	1.0
9-Jan-07	1	2	0	0	0	1	0	0	0	2	3	2	2	3	A	2	2	1	1	1	1	1	1	1	1.1	2.5
10-Jan-07	1	1	1	1	1	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	1	2	0.7	1.8
11-Jan-07	1	1	1	1	1	0	0	0	1	1	1	1	A	3	3	2	1	1	1	1	2	1	1	1	1.3	3.0
12-Jan-07	1	1	1	1	0	0	1	0	1	0	1	A	1	1	1	2	4	1	1	0	0	0	1	1	1.0	3.7
13-Jan-07	1	1	1	1	0	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5
14-Jan-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0.7	1.0
15-Jan-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0.9	1.4
16-Jan-07	0	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0.5	0.9
17-Jan-07	1	1	1	0	0	0	A	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0.6	0.9
18-Jan-07	1	0	0	0	0	A	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0.7	1.4
19-Jan-07	1	1	2	3	A	1	1	1	2	2	1	2	1	2	2	1	1	1	1	1	1	1	1	2	1.2	3.0
20-Jan-07	2	2	2	A	2	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	0.8	2.0
21-Jan-07	1	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.4
22-Jan-07	0	A	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0.6	0.9
23-Jan-07	A	1	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	1	1	2	1	1	0.6	2.0
24-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	0.9	1.5
25-Jan-07	1	1	A	1	0	0	0	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0.7	1.5
26-Jan-07	1	A	1	1	0	1	0	0	1	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1	0.5	0.5
27-Jan-07	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.5
28-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	A	2	1.3	2.5
29-Jan-07	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	A	1	2	0.8	2.5
30-Jan-07	2	2	2	1	2	2	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1.0	2.5
31-Jan-07	1	1	1	A	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5
Hourly Avg	0.8	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.9	0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.9		
Hourly Max	2.5	2.5	2.0	3.0	1.6	1.7	1.5	1.5	1.5	5.4	2.5	2.0	1.5	3.0	2.5	2.0	3.7	1.5	1.5	1.5	1.8	2.0	1.5	2.5		

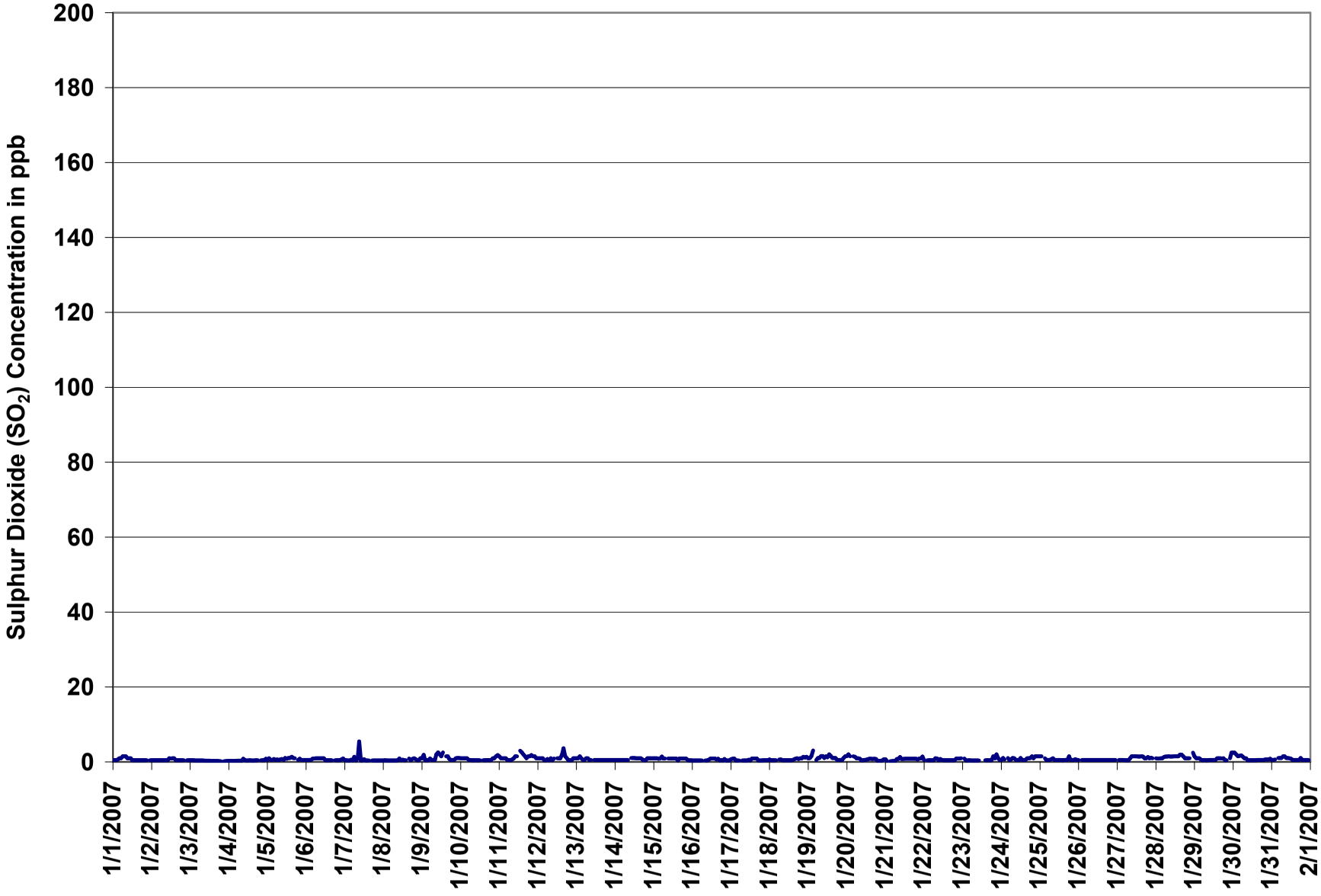
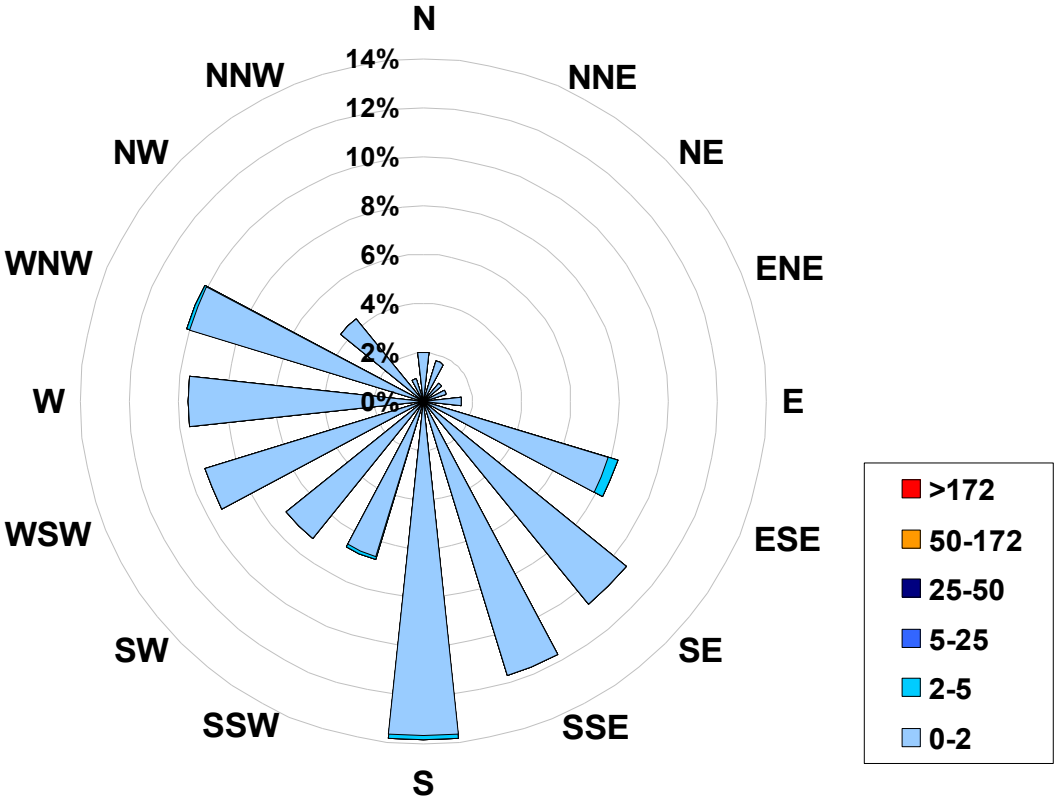


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Falher Site for January 2007



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	704
2	to	5	6
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			710

PASZA - Portable-Falher - Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O_3)

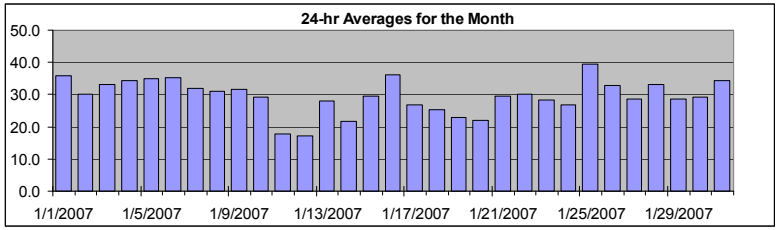
Station: Portable-Falher
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 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:	41.8	ppb	25-Jan	15:00 16:00
Maximum 24-hr Average:	39.4	ppb	25-Jan	



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
	40.2	38.3	34.9	30.7	26.3	15.2	5.5	29.5 ppb	30.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	38	37	35	35	35	33	34	35	36	35	36	36	39	38	36	36	38	37	37	35	35	35	A	33	35.8	38.6
2-Jan-07	33	34	33	32	33	33	33	32	31	30	30	30	30	30	31	31	31	27	29	27	21	A	26	25	30.1	34.1
3-Jan-07	29	32	34	32	32	35	36	33	32	33	32	27	31	34	35	36	34	35	35	33	A	33	35	35	33.1	36.1
4-Jan-07	33	34	34	34	34	34	32	30	32	32	32	32	32	33	35	37	38	38	38	A	37	37	36	36	34.4	38.3
5-Jan-07	36	36	36	36	35	34	33	34	34	35	35	35	35	36	36	35	34	33	A	35	33	33	36	36	34.9	36.0
6-Jan-07	35	35	33	34	34	34	35	35	37	38	39	39	39	39	39	38	37	A	30	29	32	33	33	32	35.3	39.2
7-Jan-07	33	30	32	34	33	34	33	31	32	32	32	33	34	35	34	34	A	31	31	30	29	28	28	29	31.9	35.2
8-Jan-07	29	28	30	30	30	30	31	30	30	31	35	36	36	37	36	A	29	29	22	25	28	34	34	32	30.9	36.6
9-Jan-07	31	31	28	29	31	32	33	33	32	35	35	36	36	34	A	33	35	34	31	31	30	26	26	26	31.6	35.9
10-Jan-07	28	29	29	29	29	30	30	29	28	29	29	30	30	A	30	30	30	30	31	31	29	29	29	29	29.3	30.7
11-Jan-07	29	29	27	28	28	28	27	25	21	20	21	23	A	21	20	17	11	9	4	0	8	6	3	5	17.8	28.9
12-Jan-07	9	14	14	13	13	10	10	10	11	13	22	A	24	25	25	22	21	11	18	21	20	21	19	25	17.1	25.1
13-Jan-07	27	28	29	31	30	30	28	27	31	32	A	30	29	29	28	28	24	16	21	25	30	30	30	29	28.0	31.8
14-Jan-07	29	29	28	28	27	27	25	22	21	A	21	22	23	23	23	21	18	16	18	17	18	16	15	13	21.8	29.1
15-Jan-07	14	16	16	24	25	24	25	25	A	27	30	34	34	35	36	34	35	34	35	34	32	34	35	36	29.4	36.1
16-Jan-07	36	37	37	37	36	36	37	A	35	36	36	36	37	37	36	36	36	35	34	36	36	36	36	36	36.1	37.1
17-Jan-07	35	35	35	35	35	35	A	34	34	33	33	33	32	32	32	28	10	8	9	3	12	22	26	26	26.9	35.4
18-Jan-07	25	24	28	29	30	A	30	28	30	29	28	30	30	31	29	26	23	24	25	20	15	14	16	20	25.4	30.6
19-Jan-07	22	18	17	23	A	28	28	25	24	22	21	26	27	30	30	31	29	26	22	22	3	12	19	19	22.9	31.0
20-Jan-07	20	26	29	A	26	28	28	26	21	14	19	20	23	25	26	25	25	20	18	16	16	15	18	22	22.0	29.0
21-Jan-07	26	23	A	26	29	27	29	28	27	28	28	30	32	32	32	34	32	29	30	30	31	30	34	35	29.6	34.8
22-Jan-07	34	A	32	32	31	30	29	26	26	25	27	27	27	28	28	28	27	29	29	34	34	35	36	36	30.0	36.4
23-Jan-07	A	36	34	34	32	33	28	28	29	31	30	27	23	26	27	26	25	32	27	18	26	27	29	28	28.4	35.8
24-Jan-07	29	27	25	A	24	24	24	20	19	21	22	23	24	25	26	30	30	26	29	30	33	35	33	34	26.7	34.9
25-Jan-07	35	36	A	39	40	41	39	38	38	39	40	41	40	39	38	42	42	41	40	41	40	39	39	39	39.4	41.8
26-Jan-07	39	A	38	38	38	39	38	39	38	37	37	37	37	37	36	36	35	32	24	3	15	22	25	30	32.7	39.1
27-Jan-07	A	25	31	32	32	31	30	29	28	26	28	27	29	29	28	29	29	26	26	23	25	32	34	A	28.7	34.3
28-Jan-07	34	37	38	39	38	37	36	35	35	35	36	37	38	38	38	38	37	31	13	18	23	28	A	24	33.2	38.7
29-Jan-07	27	34	34	34	34	35	35	34	31	33	33	33	32	35	35	34	32	22	12	2	7	A	23	27	28.6	35.1
30-Jan-07	29	29	30	30	32	33	33	34	35	37	37	38	C	C	C	C	A	37	29	15	20	20	17	22	29.2	37.7
31-Jan-07	26	29	30	A	30	32	32	31	32	34	34	35	36	37	38	38	37	39	39	37	37	36	35	35	34.3	39.3
Hourly Avg	29.3	29.6	30.2	31.3	31.2	31.2	30.7	29.6	29.7	30.1	30.6	31.4	31.7	32.0	31.9	31.6	29.8	28.0	26.2	24.0	25.2	27.6	27.8	28.5		
Hourly Max	39.1	37.1	38.2	38.7	40.1	41.4	38.9	38.5	38.0	38.5	40.2	41.0	39.7	39.2	39.0	41.8	41.6	41.1	40.0	40.6	40.4	39.3	38.8	38.9		

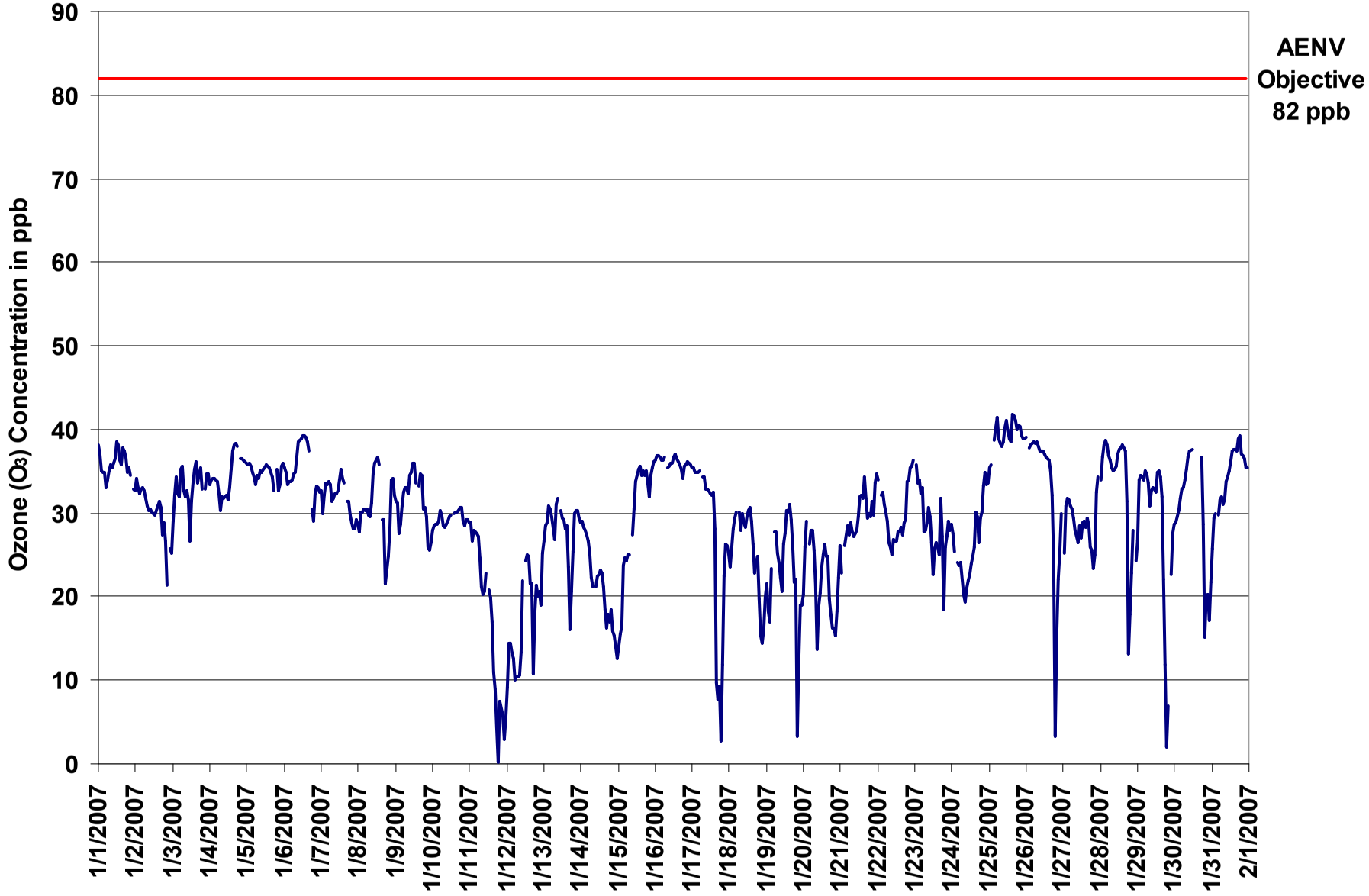


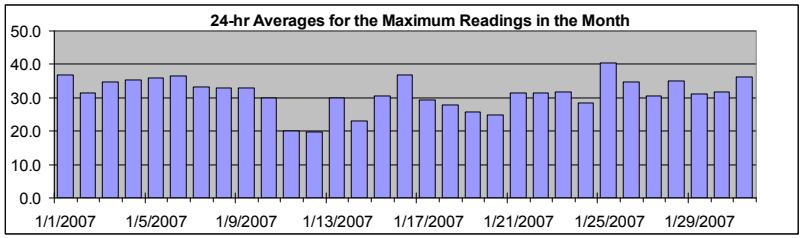
Figure 48. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	54.1	ppb	31-Jan	17:00 18:00
Maximum 24-hr Value:	40.5	ppb	25-Jan	

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
	41.7	39.1	35.9	32.5	28.5	18.6	11.2	31.3 ppb	32.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 / 1:00	1:00 / 2:00	2:00 / 3:00	3:00 / 4:00	4:00 / 5:00	5:00 / 6:00	6:00 / 7:00	7:00 / 8:00	8:00 / 9:00	9:00 / 10:00	10:00 / 11:00	11:00 / 12:00	12:00 / 13:00	13:00 / 14:00	14:00 / 15:00	15:00 / 16:00	16:00 / 17:00	17:00 / 18:00	18:00 / 19:00	19:00 / 20:00	20:00 / 21:00	21:00 / 22:00	22:00 / 23:00	23:00 / 0:00	24-hour Average	Daily Maximum
1-Jan-07	39	39	37	36	36	34	34	36	36	36	36	38	40	39	37	37	38	38	37	36	36	35	A	34	36.8	40.3
2-Jan-07	34	35	34	33	33	33	33	32	32	32	31	31	30	31	32	33	32	30	30	29	25	A	26	26	31.3	34.6
3-Jan-07	33	34	35	34	34	37	36	35	33	33	34	28	34	35	36	37	36	36	37	36	A	35	36	36	34.8	36.9
4-Jan-07	34	35	35	35	34	34	34	33	32	33	33	33	33	35	37	38	39	39	39	A	37	37	37	37	35.3	39.0
5-Jan-07	37	36	37	36	36	36	36	35	35	36	36	36	36	36	36	36	35	34	A	36	34	34	37	37	35.8	37.3
6-Jan-07	36	36	34	34	34	34	35	35	38	39	39	40	40	39	39	39	38	A	36	35	35	34	34	34	36.6	39.8
7-Jan-07	34	33	33	34	34	34	34	33	33	34	33	33	37	36	35	35	A	33	33	33	30	29	29	30	33.2	37.0
8-Jan-07	30	32	32	31	31	31	31	31	31	33	37	37	37	37	37	A	35	34	28	27	34	35	35	34	33.0	37.4
9-Jan-07	34	33	31	32	32	33	34	34	35	35	36	36	37	35	A	34	36	36	31	31	31	27	26	27	32.9	36.7
10-Jan-07	29	29	29	29	30	31	32	29	29	29	29	30	30	A	30	30	30	31	31	31	30	30	30	30	30.0	31.8
11-Jan-07	29	30	28	29	29	28	28	26	24	23	23	24	A	22	21	19	15	11	10	5	13	13	5	9	20.1	29.9
12-Jan-07	13	16	15	14	14	13	12	12	16	18	25	A	26	27	28	24	26	17	23	23	22	22	20	27	19.7	27.6
13-Jan-07	27	29	32	32	31	30	29	28	33	33	A	32	31	32	29	30	27	24	26	30	31	31	31	30	29.9	32.7
14-Jan-07	30	30	29	29	28	27	26	24	23	A	22	23	23	24	24	23	21	18	20	19	19	17	17	15	23.1	30.2
15-Jan-07	15	16	21	26	26	25	26	26	A	29	34	35	35	36	36	36	36	35	36	35	33	36	36	37	30.7	37.0
16-Jan-07	37	38	37	37	37	37	37	A	36	36	37	37	37	38	37	37	37	36	35	36	36	37	37	36	36.8	37.9
17-Jan-07	36	36	35	36	35	35	A	35	35	34	34	34	33	33	33	33	20	12	14	9	19	26	28	27	29.2	36.0
18-Jan-07	27	25	30	30	31	A	31	31	32	30	30	31	31	31	31	29	26	27	28	26	20	19	20	23	27.8	32.1
19-Jan-07	22	20	18	29	A	29	29	27	26	24	25	27	30	31	31	32	32	30	28	32	10	17	20	21	25.8	32.3
20-Jan-07	22	30	30	A	28	29	29	27	25	19	21	23	26	26	27	27	27	25	21	22	20	18	22	25	24.9	30.4
21-Jan-07	28	28	A	28	30	29	30	29	28	28	29	31	33	33	33	36	34	33	32	32	32	32	36	36	31.4	36.3
22-Jan-07	34	A	33	33	33	31	31	28	27	27	28	28	28	29	30	30	31	31	33	34	35	36	36	37	31.4	37.2
23-Jan-07	A	37	38	37	37	35	31	33	34	34	33	31	26	28	29	30	31	34	30	23	28	29	31	31	31.7	37.8
24-Jan-07	29	29	27	A	25	25	25	24	22	22	23	24	25	28	29	32	32	29	32	32	35	37	34	35	28.4	36.6
25-Jan-07	36	37	A	43	42	42	40	39	39	40	41	42	41	39	40	42	42	42	42	41	41	41	39	40	40.5	42.5
26-Jan-07	40	A	38	39	39	39	39	39	39	38	38	37	37	37	37	37	37	34	32	13	23	25	27	33	34.7	39.8
27-Jan-07	A	30	32	32	32	32	31	31	29	29	29	30	31	30	30	31	30	27	28	28	30	34	35	A	30.5	35.2
28-Jan-07	36	38	39	39	39	38	37	36	36	36	37	38	38	39	39	39	38	36	20	22	26	30	A	27	34.9	39.2
29-Jan-07	29	36	36	35	35	36	36	35	33	33	34	34	36	36	36	36	34	32	17	7	14	A	26	29	31.1	36.1
30-Jan-07	29	29	30	31	33	34	34	35	36	38	38	38	C	C	C	C	A	38	38	24	23	29	22	23	31.7	38.3
31-Jan-07	29	31	31	A	32	33	33	32	33	35	35	36	37	38	38	38	38	54	43	39	37	38	36	36	36.2	54.1
Hourly Avg	30.7	31.3	31.6	32.6	32.3	32.2	31.8	31.0	31.3	31.5	32.0	32.5	33.1	33.1	33.0	33.1	32.3	31.2	29.7	27.6	28.0	29.8	29.3	30.1		
Hourly Max	39.8	39.2	38.7	42.5	42.1	42.2	40.1	39.1	38.9	39.6	41.0	41.6	41.2	39.4	40.2	42.4	42.2	54.1	42.9	41.3	41.1	40.7	39.3	39.8		

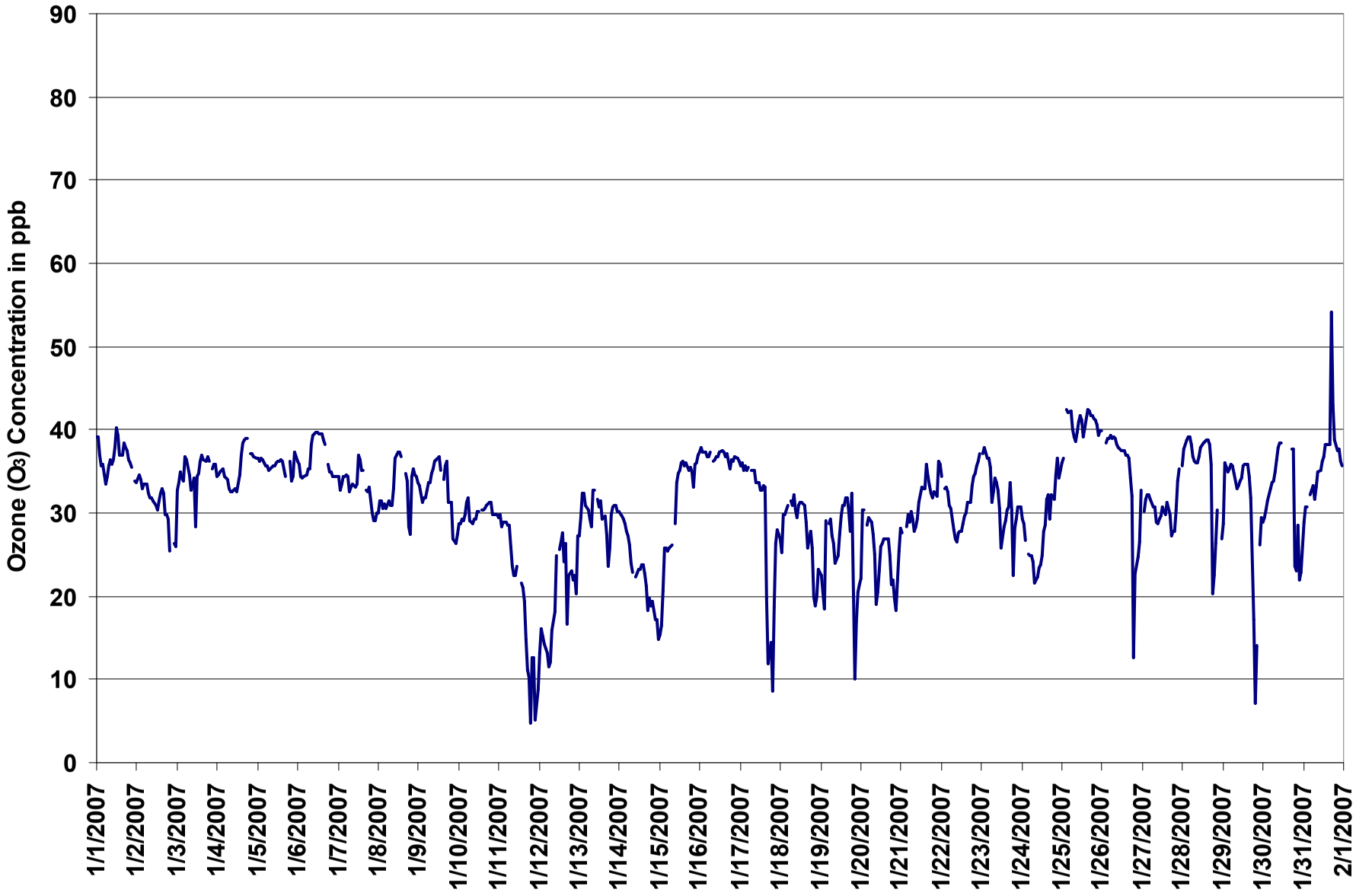
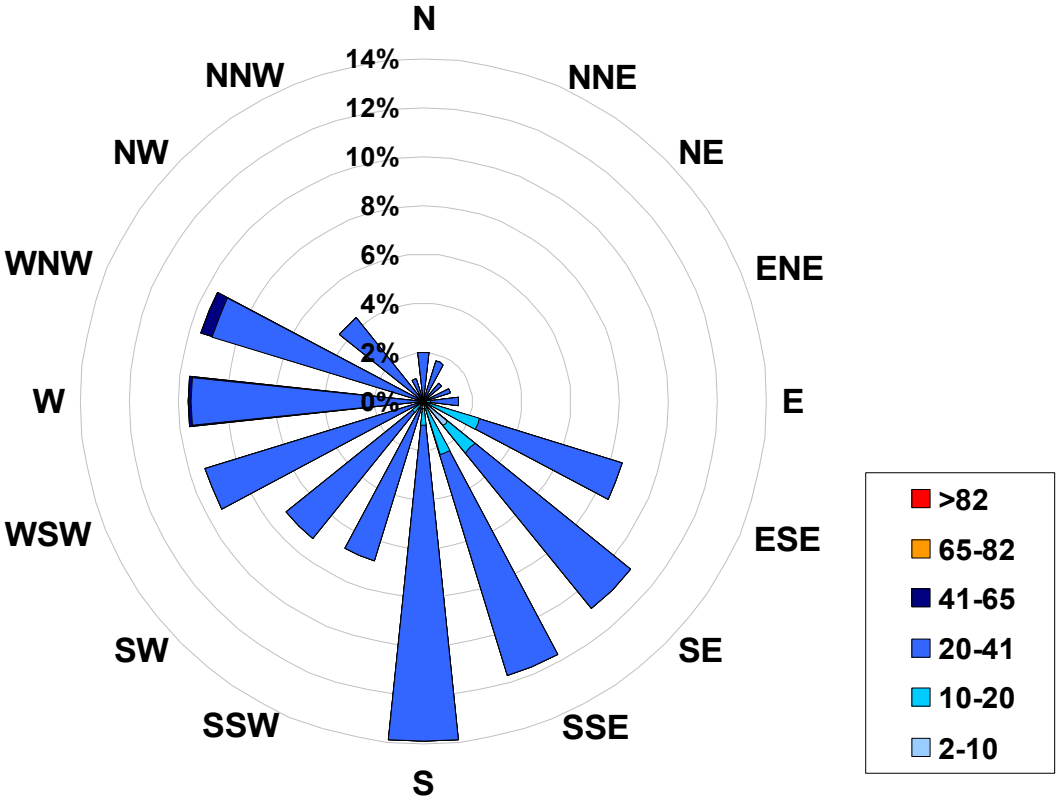


Figure 49. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Falher Site for January 2007



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	16
10	to	20	54
20	to	41	634
41	to	65	4
65	to	82	0
	>	82	0
Total Non-Zero Values			708

PASZA - Portable-Falher - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

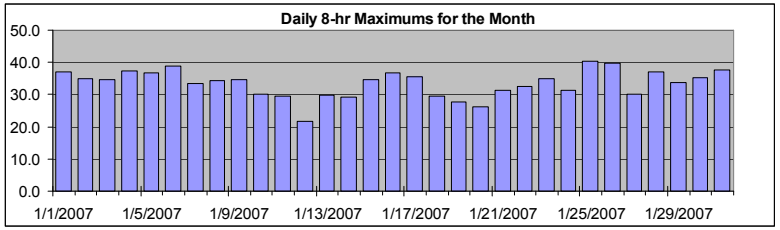
Station: Portable-Falher
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	40.5	ppb	25-Jan	22:00 23:00



Percentile	99	95	75	50	25	5	1
	39.9	37.7	34.4	30.2	26.3	18.0	9.9

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	35	35	35	35	35	35	35	35	35	35	35	35	36	36	36	37	37	37	37	37	37	36	36	36	37.2
2-Jan-07	35	34	34	34	33	33	33	33	33	32	32	32	31	31	31	30	30	30	30	29	28	28	27	27	34.9
3-Jan-07	26	27	28	29	30	31	32	33	33	33	33	32	32	32	32	32	33	33	33	34	35	34	34	34	34.5
4-Jan-07	34	34	34	34	34	34	34	33	33	33	33	32	32	32	32	33	34	35	36	36	37	37	37	37	37.3
5-Jan-07	37	36	36	36	36	36	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	34	36.8
6-Jan-07	34	35	35	34	35	35	34	34	35	35	36	36	37	38	38	39	39	39	38	36	35	34	33	33	38.7
7-Jan-07	32	32	32	32	33	33	33	33	32	33	33	33	33	33	33	33	33	33	33	33	32	31	30	30	33.5
8-Jan-07	29	29	29	29	29	29	30	30	30	30	31	32	32	33	34	34	34	34	32	31	29	29	29	29	34.3
9-Jan-07	29	30	30	31	31	31	31	31	31	32	32	33	34	34	34	34	35	35	34	33	32	31	31	30	34.7
10-Jan-07	29	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	30	30	30	30	30	30	30	30	30.2
11-Jan-07	30	29	29	29	28	28	28	27	26	25	25	24	23	23	21	20	19	17	15	12	11	9	7	6	29.6
12-Jan-07	6	6	7	9	10	10	11	12	12	12	13	13	14	17	19	20	22	21	21	21	20	20	19	20	21.8
13-Jan-07	20	22	24	25	26	27	29	29	29	30	30	30	30	30	30	30	29	26	26	25	25	25	26	26	29.9
14-Jan-07	26	28	29	29	29	28	28	27	26	26	25	24	23	23	22	22	22	21	21	20	19	18	18	16	29.2
15-Jan-07	16	16	16	16	17	18	20	21	22	24	26	27	29	30	32	33	33	34	35	35	34	34	34	35	34.8
16-Jan-07	35	35	35	36	36	36	37	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36.6
17-Jan-07	36	36	36	36	35	35	35	35	35	34	34	34	34	33	33	32	29	26	23	19	17	16	15	15	35.6
18-Jan-07	16	18	21	24	26	27	28	28	28	29	29	29	29	30	29	29	28	28	27	26	24	22	20	20	29.5
19-Jan-07	19	19	18	18	19	21	22	23	23	24	24	25	25	25	26	27	27	28	28	27	24	22	21	19	27.8
20-Jan-07	18	18	19	18	22	24	25	26	26	25	23	23	22	22	22	22	22	23	23	22	21	20	19	19	26.3
21-Jan-07	19	19	20	21	23	24	26	27	27	28	28	28	28	29	29	30	31	31	31	31	31	31	31	31	31.4
22-Jan-07	32	32	32	33	33	33	32	31	30	29	28	28	27	27	27	27	27	28	28	29	30	31	32	33	32.6
23-Jan-07	33	34	35	35	35	34	33	32	32	31	31	30	28	27	27	27	27	27	26	25	26	26	26	27	35.0
24-Jan-07	27	26	26	27	27	27	26	25	24	23	22	22	22	22	22	24	25	26	27	28	29	30	31	31	31.3
25-Jan-07	32	33	34	35	36	37	38	38	39	39	39	40	40	39	39	40	40	40	40	40	40	40	40	40	40.5
26-Jan-07	40	40	39	39	39	39	38	38	38	38	38	38	38	38	37	37	37	36	34	30	27	26	24	23	39.8
27-Jan-07	22	21	22	26	28	29	30	30	30	30	30	29	29	28	28	28	28	28	28	27	27	27	28	28	30.1
28-Jan-07	29	30	32	34	36	37	37	37	37	37	36	36	36	36	36	37	37	37	34	31	30	28	27	25	37.1
29-Jan-07	23	24	27	29	31	32	32	33	34	34	33	33	33	33	33	33	33	32	29	26	22	21	19	18	33.9
30-Jan-07	17	18	21	25	28	29	30	31	32	33	34	35	35	N	N	N	N	N	N	N	N	N	N	23	35.3
31-Jan-07	23	22	22	23	25	26	29	30	31	31	32	32	33	34	35	35	36	37	37	38	38	38	37	37	37.8
Hourly Max	39.8	39.6	39.3	38.9	38.6	38.5	38.5	38.4	38.7	39.1	39.3	39.5	39.5	39.2	39.1	39.6	40.0	40.3	40.3	40.3	40.3	40.4	40.5	40.1	

PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

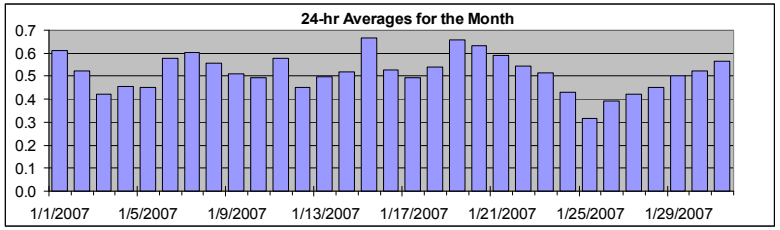
Station: Portable-Falher
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Maximum 1-hr Average:	0.8	ppb	19-Jan	13:00 14:00
Maximum 24-hr Value:	0.7	ppb	15-Jan	



AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.7	0.6	0.5	0.5	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**

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-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.7
2-Jan-07	1	0	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0	1	1	A	0	0	0.5	0.6
3-Jan-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.6
4-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	1	0	0.5	0.5
5-Jan-07	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0.5	0.5
6-Jan-07	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.7
7-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.6	0.8
8-Jan-07	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.6
9-Jan-07	1	1	1	1	1	1	1	1	0	1	1	0	0	1	A	1	1	0	0	0	0	0	0	0	0.5	0.6
10-Jan-07	0	0	0	0	0	0	0	0	1	0	0	0	0	A	1	0	0	0	1	1	1	1	1	1	0.5	0.6
11-Jan-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
12-Jan-07	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	1	0.5	0.6
13-Jan-07	1	1	1	1	0	0	0	0	1	1	A	1	1	1	1	0	0	1	1	0	0	0	0	0	0.5	0.6
14-Jan-07	0	0	0	1	0	0	0	0	0	A	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0.5	0.6
15-Jan-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
16-Jan-07	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	0	1	0	0	0	1	0	1	0	0.5	0.6
17-Jan-07	1	1	1	1	0	0	A	0	0	0	1	0	0	0	0	0	1	1	0	1	1	0	1	0	0.5	0.6
18-Jan-07	0	0	0	0	1	A	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
19-Jan-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
20-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
21-Jan-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
22-Jan-07	1	A	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
23-Jan-07	A	1	1	1	1	1	1	1	0	1	1	C	C	A	1	0	0	0	0	0	0	0	0	0	0.5	0.6
24-Jan-07	0	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
25-Jan-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
26-Jan-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
27-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0.4	0.5
28-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	A	1	0.5	0.6
29-Jan-07	0	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	1	A	1	1	0.5	0.6
30-Jan-07	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0.5	0.6
31-Jan-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0.6	0.6
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		
Hourly Max	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7		

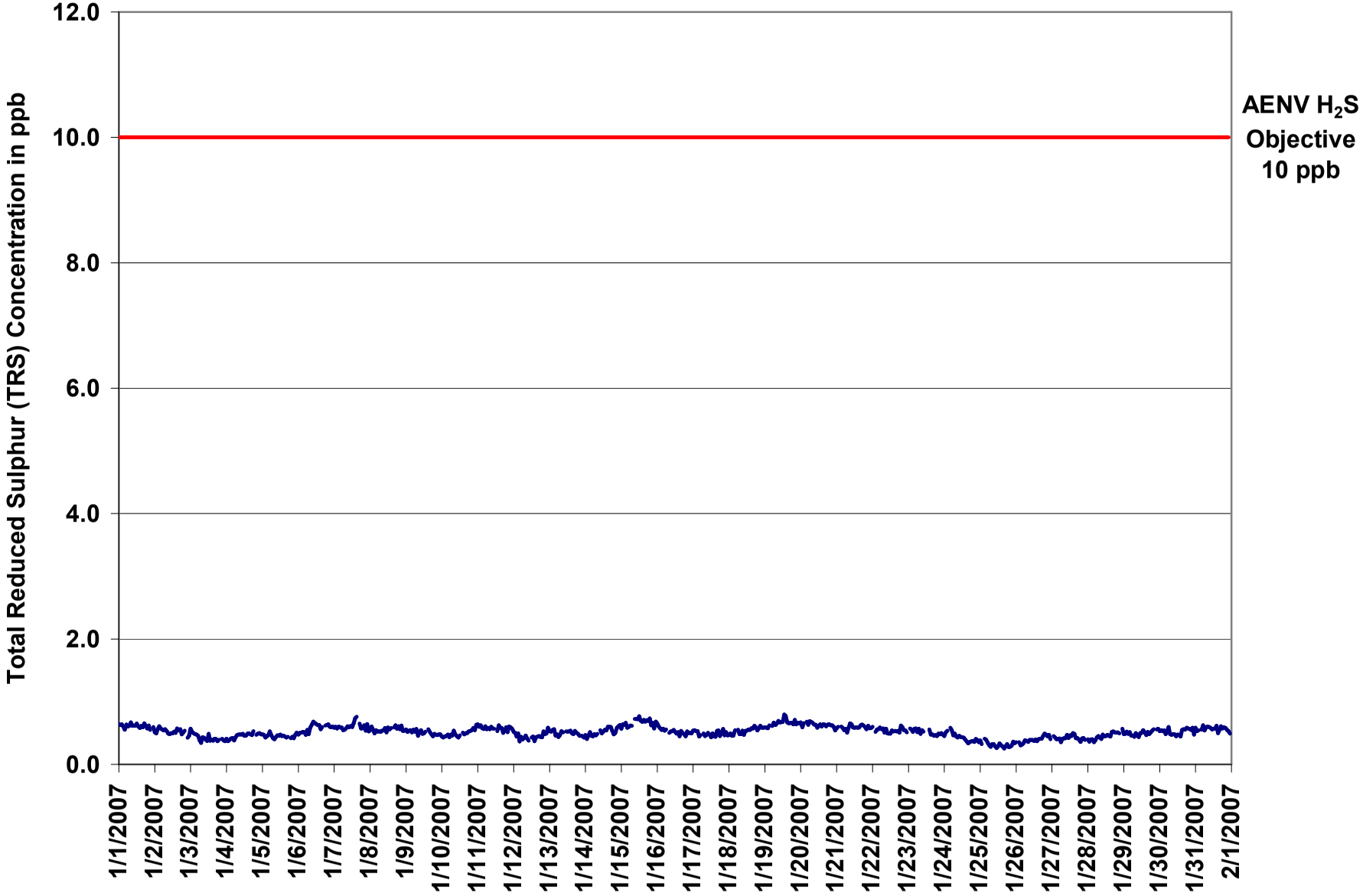


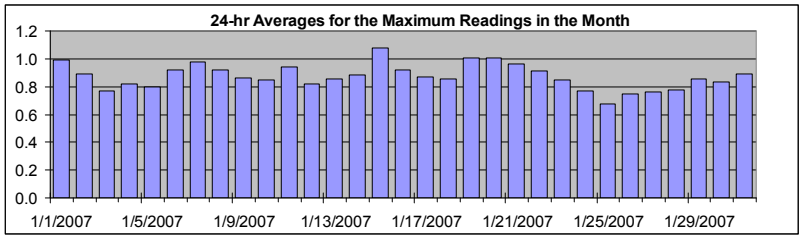
Figure 50. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	1.4	ppb	15-Jan	23:00 0:00
Maximum 24-hr Value:	1.1	ppb	15-Jan	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	1.1	0.9	0.9	0.8	0.7	0.6	0.9 ppb	0.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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

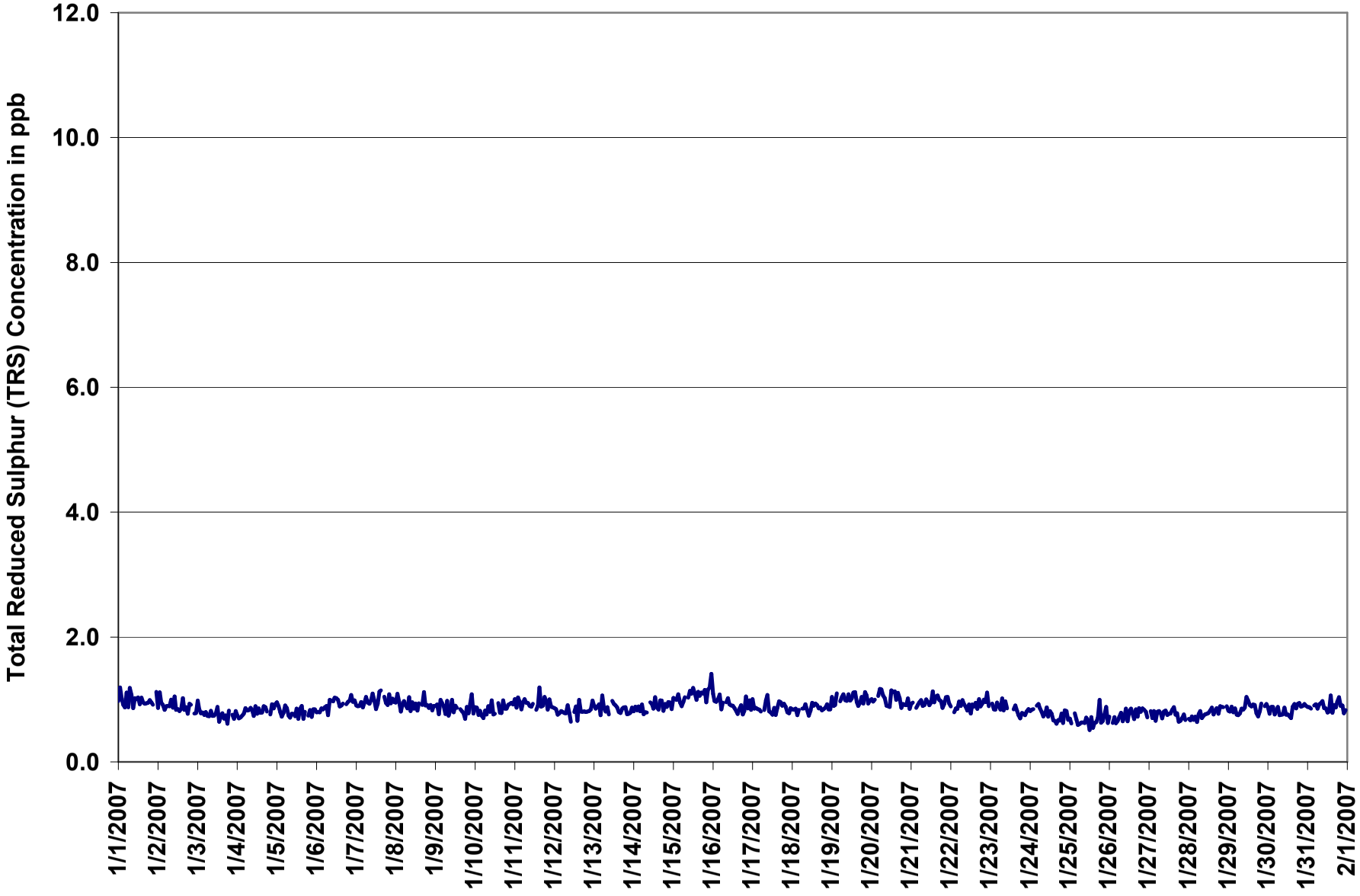
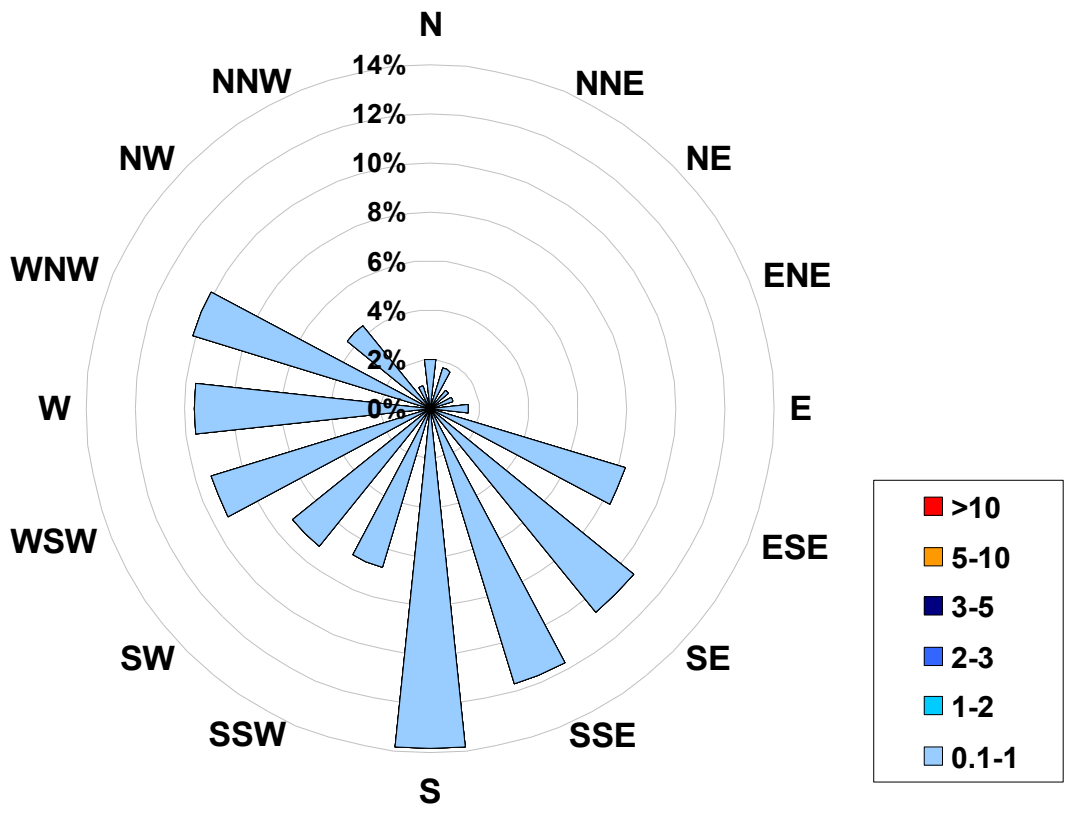


Figure 51. PASZA - Portable-Falher Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	710
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			710

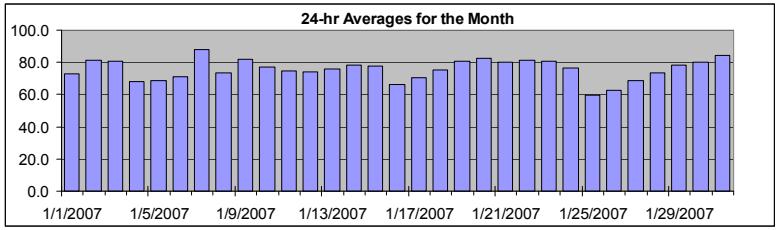
PASZA - Portable-Falher - Relative Humidity Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	98.3	%	2-Jan	20:00 21:00
Maximum 24-hr Value:	88.0	%	7-Jan	

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
	95.2	91.1	80.8	75.5	70.1	60.1	53.7	75.6 %	75.5 %

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / 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-Jan-07	66	68	71	73	73	71	69	69	69	69	71	78	80	84	82	79	66	68	72	75	75	75	74	70	72.8	83.8
2-Jan-07	73	74	78	79	77	77	77	79	77	76	77	71	73	71	69	75	90	95	97	98	98	95	91	88	81.5	98.3
3-Jan-07	78	77	82	88	89	89	91	91	89	87	84	87	81	78	76	71	70	71	75	75	77	77	74	74	80.5	91.1
4-Jan-07	76	76	76	74	76	77	77	80	77	75	74	73	73	67	62	55	52	51	54	58	59	61	61	61	67.8	79.7
5-Jan-07	64	65	67	71	73	76	73	72	68	65	65	63	61	61	63	63	67	70	67	71	71	71	74	81	68.5	81.3
6-Jan-07	80	75	76	79	80	79	77	76	71	71	69	69	63	62	63	62	64	64	68	69	70	71	73	73	70.9	80.4
7-Jan-07	76	80	79	75	75	75	75	79	82	93	93	93	95	95	95	95	94	95	94	95	95	95	95	93	88.0	95.4
8-Jan-07	85	83	76	74	73	73	79	84	90	85	72	65	64	63	64	65	67	68	72	71	73	70	70	71	73.2	89.8
9-Jan-07	69	70	75	75	74	71	71	70	77	80	79	86	90	89	90	90	90	88	89	88	88	88	87	86	81.7	90.3
10-Jan-07	85	84	82	81	80	79	81	79	78	77	77	76	75	74	72	72	73	74	74	75	76	77	77	77	77.3	85.2
11-Jan-07	77	77	77	76	76	77	76	75	75	75	75	75	73	71	68	70	71	72	74	76	75	75	76	74	74.4	76.9
12-Jan-07	73	73	73	75	76	78	78	79	79	78	77	74	71	68	68	70	71	74	73	74	74	75	75	73	74.1	78.9
13-Jan-07	77	80	80	79	80	80	80	80	77	77	75	73	70	67	67	70	75	78	79	78	75	73	74	76	75.8	80.3
14-Jan-07	76	77	78	78	78	78	78	78	77	77	77	76	75	75	75	77	80	80	79	80	82	85	85	84	78.6	84.8
15-Jan-07	85	86	87	88	86	85	84	84	82	80	78	74	73	72	71	73	72	73	71	75	77	72	69	71	77.8	87.6
16-Jan-07	69	68	67	67	67	69	64	65	65	66	65	63	59	58	62	66	67	67	69	69	70	68	68	69	66.1	70.0
17-Jan-07	74	77	74	68	64	62	63	63	67	71	67	64	62	64	57	62	70	75	79	84	83	80	78	78	70.2	83.6
18-Jan-07	79	78	76	75	75	76	77	78	72	73	73	70	69	65	67	68	72	74	73	77	83	87	88	87	75.5	88.3
19-Jan-07	86	84	83	82	84	84	85	90	91	91	90	82	74	72	70	67	69	66	69	70	86	85	87	86	80.6	91.5
20-Jan-07	85	82	79	81	80	82	81	85	89	92	89	82	78	75	73	71	73	76	80	87	89	91	90	89	82.4	91.6
21-Jan-07	85	87	90	87	83	81	78	76	75	76	88	92	92	88	81	71	72	72	73	74	74	74	76	80	80.3	92.4
22-Jan-07	90	89	91	94	94	94	91	88	86	83	81	80	80	74	73	70	75	79	76	70	71	71	76	74	81.2	94.1
23-Jan-07	75	75	77	78	79	86	89	87	85	86	84	86	82	81	80	80	79	78	80	81	76	77	82	83	81.0	88.9
24-Jan-07	84	82	90	93	93	94	92	91	86	81	80	80	79	75	72	68	64	68	66	65	61	57	59	58	76.5	94.0
25-Jan-07	57	58	64	50	54	55	57	65	68	65	54	52	64	90	81	51	54	52	53	61	57	62	59	57	59.9	90.1
26-Jan-07	57	58	61	60	60	61	62	61	59	62	60	57	59	60	61	58	56	63	66	75	77	74	71	72	62.9	76.5
27-Jan-07	74	75	76	76	75	74	75	75	72	69	68	67	67	67	63	63	62	60	61	64	70	66	64	63	68.6	75.7
28-Jan-07	65	66	67	69	71	71	71	74	74	76	73	70	67	68	66	66	68	75	83	84	84	84	83	81	73.3	84.4
29-Jan-07	81	80	80	80	81	81	79	80	79	80	78	77	70	71	74	72	72	79	83	84	81	80	79	79	78.3	83.9
30-Jan-07	77	78	80	83	82	79	81	82	83	79	76	74	72	71	69	71	72	77	83	87	92	91	91	90	80.0	92.0
31-Jan-07	89	88	89	89	88	85	82	83	81	78	77	78	77	82	80	80	81	86	90	94	91	87	83	81	84.2	93.5
Hourly Avg	76.3	76.5	77.5	77.3	77.3	77.4	77.3	78.0	77.4	77.2	75.6	74.4	73.2	72.8	71.3	70.0	71.2	73.2	74.9	76.9	77.7	77.2	77.1	76.6		
Hourly Max	90.2	89.3	90.9	94.0	94.1	94.0	92.2	90.9	91.5	93.0	93.0	93.1	94.6	95.2	95.3	94.8	94.5	95.1	96.8	97.8	98.3	95.4	94.9	93.1		

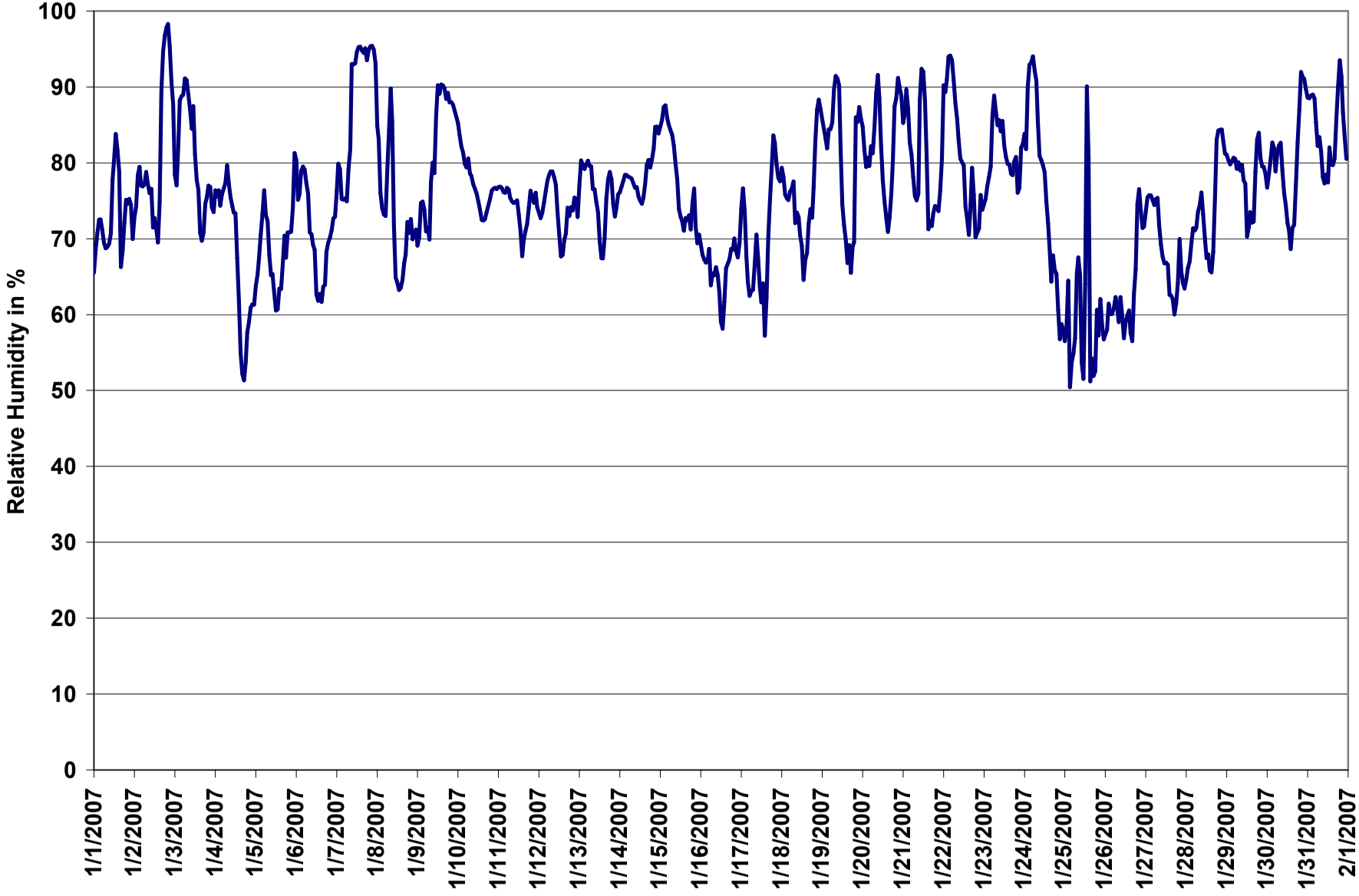


Figure 52. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

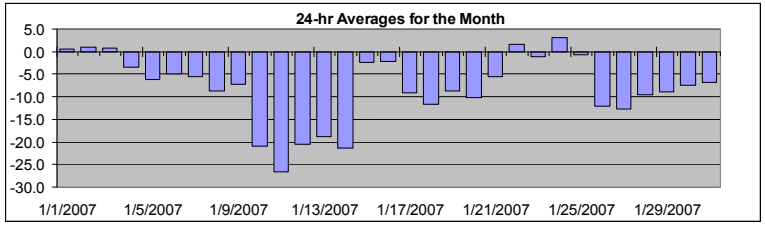
PASZA - Portable-Falher - Temperature Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	5.9	°C	25-Jan	6:00 7:00
Maximum 24-hr Value:	3.1	°C	24-Jan	

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
	4.6	2.7	-2.2	-7.2	-11.8	-25.0	-26.9	-8.0 °C	-7.2 °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**

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-Jan-07	-1	-2	-3	-4	-4	-3	-3	-2	-2	-1	0	1	3	3	3	3	5	5	4	3	3	3	3	3	0.6	5.0
2-Jan-07	2	1	0	-1	1	1	0	-1	-1	-1	-1	2	2	2	3	3	2	2	2	1	1	1	1	1	1.0	3.2
3-Jan-07	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	-2	-3	-3	-4	-3	-3	0.7	3.1
4-Jan-07	-3	-4	-4	-3	-4	-4	-5	-6	-5	-4	-3	-2	-2	-1	-1	-1	-2	-2	-3	-4	-4	-4	-5	-5	-3.5	-1.1
5-Jan-07	-5	-5	-6	-8	-10	-12	-12	-11	-9	-9	-8	-6	-6	-5	-4	-4	-4	-5	-3	-4	-4	-4	-2	-2	-6.2	-1.9
6-Jan-07	-2	-2	-2	-3	-4	-5	-5	-5	-4	-4	-5	-6	-4	-3	-3	-3	-4	-5	-6	-8	-9	-9	-9	-9	-5.0	-1.6
7-Jan-07	-10	-11	-11	-8	-8	-7	-7	-8	-6	-6	-6	-5	-4	-3	-3	-2	-2	-2	-3	-4	-4	-4	-4	-4	-5.5	-1.9
8-Jan-07	-5	-8	-8	-9	-9	-10	-12	-13	-13	-13	-10	-8	-6	-6	-6	-6	-7	-7	-9	-9	-9	-8	-8	-8	-8.7	-4.9
9-Jan-07	-8	-9	-10	-9	-8	-8	-7	-7	-6	-5	-4	-5	-5	-5	-5	-5	-5	-6	-7	-8	-8	-10	-11	-12	-7.3	-4.5
10-Jan-07	-13	-14	-15	-15	-16	-16	-17	-19	-20	-21	-21	-22	-22	-23	-23	-23	-24	-25	-25	-26	-27	-27	-26	-25	-21.0	-12.7
11-Jan-07	-25	-25	-25	-26	-27	-28	-28	-29	-29	-30	-28	-27	-26	-26	-26	-26	-26	-26	-27	-27	-26	-26	-26	-25	-26.7	-24.9
12-Jan-07	-25	-25	-24	-25	-26	-26	-25	-25	-24	-24	-21	-19	-19	-18	-17	-17	-17	-17	-16	-16	-17	-17	-16	-15	-20.6	-15.4
13-Jan-07	-15	-14	-14	-15	-16	-17	-17	-17	-17	-17	-18	-19	-20	-19	-19	-19	-20	-21	-22	-24	-23	-23	-23	-24	-18.8	-14.2
14-Jan-07	-24	-24	-24	-25	-25	-25	-25	-26	-27	-25	-23	-22	-21	-20	-18	-17	-17	-18	-19	-19	-18	-17	-17	-18	-21.4	-16.5
15-Jan-07	-17	-15	-12	-10	-8	-7	-6	-5	-3	-2	-1	1	1	2	2	2	2	2	3	2	2	3	3	2	-2.4	3.1
16-Jan-07	2	1	0	0	-1	-2	-1	-2	-2	-3	-3	-2	-1	0	-1	-3	-4	-5	-5	-4	-5	-4	-3	-4	-2.2	1.7
17-Jan-07	-5	-6	-5	-6	-6	-7	-7	-7	-9	-10	-9	-8	-8	-8	-6	-7	-10	-12	-13	-14	-14	-15	-15	-14	-9.2	-5.2
18-Jan-07	-14	-15	-13	-11	-10	-10	-11	-12	-12	-14	-14	-12	-11	-10	-9	-9	-10	-11	-9	-10	-13	-13	-13	-15	-11.7	-8.9
19-Jan-07	-16	-15	-13	-13	-12	-10	-9	-8	-7	-9	-10	-7	-5	-4	-4	-4	-4	-4	-5	-5	-11	-11	-12	-13	-8.7	-3.5
20-Jan-07	-13	-11	-10	-12	-10	-11	-9	-10	-11	-12	-11	-12	-10	-9	-8	-7	-7	-8	-8	-10	-10	-11	-12	-11	-10.2	-7.1
21-Jan-07	-10	-11	-14	-13	-11	-11	-10	-9	-8	-7	-7	-6	-5	-4	-3	-1	-2	-1	-2	-1	0	0	1	2	-5.6	2.2
22-Jan-07	2	2	1	1	1	1	1	1	1	1	1	1	0	1	2	3	1	0	1	2	3	4	2	3	1.6	3.6
23-Jan-07	3	1	0	0	0	-2	-2	-3	-3	-3	-3	-4	-3	-2	-1	-1	-1	0	-1	-1	0	0	-2	-1	-1.2	2.6
24-Jan-07	-1	1	1	1	1	1	1	2	3	3	3	3	3	4	5	5	6	5	4	5	5	5	4	4	3.1	5.7
25-Jan-07	3	2	0	2	1	3	6	5	4	2	2	2	1	-2	-1	0	-2	-3	-4	-6	-7	-9	-8	-9	-0.6	5.9
26-Jan-07	-9	-10	-11	-11	-11	-12	-12	-11	-11	-12	-11	-10	-10	-10	-10	-10	-10	-11	-12	-15	-17	-18	-17	-18	-12.0	-9.5
27-Jan-07	-17	-17	-17	-17	-17	-17	-17	-18	-17	-16	-14	-14	-12	-11	-9	-9	-9	-8	-9	-10	-10	-7	-7	-7	-12.7	-6.8
28-Jan-07	-8	-8	-8	-9	-10	-9	-9	-10	-10	-11	-10	-9	-8	-7	-6	-6	-7	-8	-11	-12	-14	-14	-14	-13	-9.6	-6.1
29-Jan-07	-13	-12	-11	-10	-10	-9	-9	-9	-9	-9	-8	-8	-7	-7	-7	-7	-7	-9	-10	-11	-10	-9	-9	-8	-9.0	-6.6
30-Jan-07	-8	-8	-8	-9	-8	-6	-7	-7	-8	-7	-6	-5	-5	-4	-4	-4	-5	-6	-8	-8	-10	-11	-12	-12	-7.4	-3.5
31-Jan-07	-13	-12	-11	-10	-10	-9	-8	-8	-8	-6	-5	-5	-5	-4	-4	-4	-4	-4	-5	-4	-5	-5	-7	-9	-6.8	-3.6
Hourly Avg	-8.6	-8.8	-8.9	-8.9	-8.8	-8.9	-8.7	-9.0	-8.8	-8.8	-8.2	-7.5	-6.8	-6.3	-5.8	-5.7	-6.1	-6.8	-7.4	-8.1	-8.5	-8.6	-8.7	-8.7		
Hourly Max	3.5	3.1	2.7	2.2	1.9	3.3	5.9	4.6	3.6	3.2	3.2	3.3	3.5	4.1	4.6	5.1	5.7	4.7	4.5	4.5	5.0	4.6	4.2	4.2		

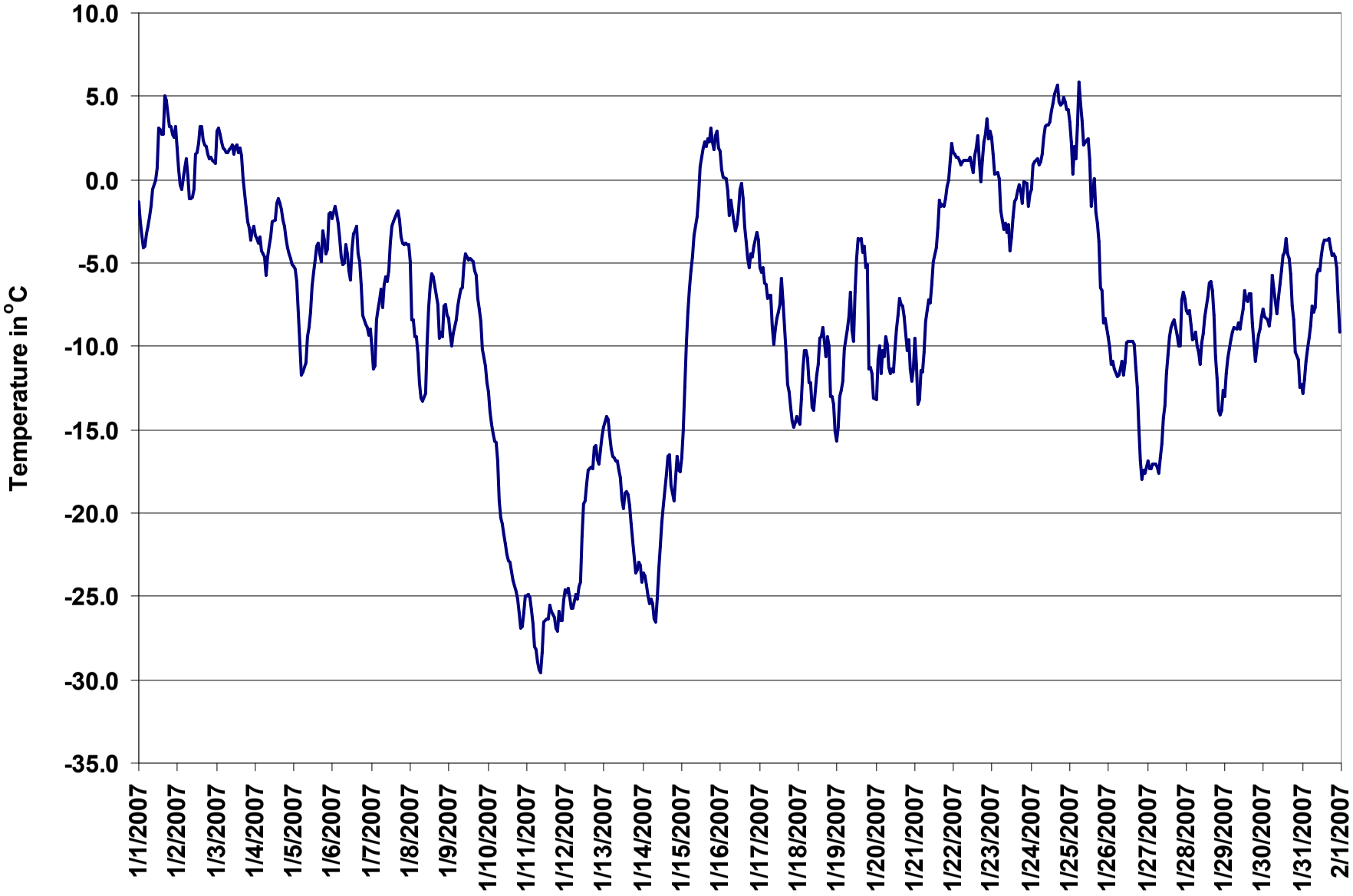


Figure 53. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

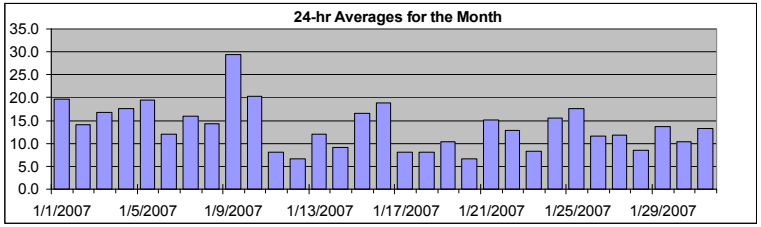
PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	41.2	km/hr	9-Jan	21:00 22:00
Maximum 24-hr Value:	29.5	km/hr	9-Jan	

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
	36.5	28.5	17.7	11.7	8.0	4.4	2.8	13.6 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**

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-hr Scalar Average	Daily Max
1-Jan-07	15	14	18	17	18	25	28	25	24	26	22	17	16	19	21	17	30	30	24	23	17	8	9	10	19.7	30.4
2-Jan-07	11	17	18	22	21	19	18	14	15	13	13	23	18	15	15	15	13	5	2	6	7	11	12	14	14.0	22.8
3-Jan-07	24	27	33	32	30	34	28	21	20	17	13	12	10	7	9	5	7	7	12	11	7	9	15	11	16.7	33.7
4-Jan-07	4	10	4	8	7	8	6	9	16	19	21	18	15	15	18	19	27	22	32	29	28	30	30	28	17.7	32.0
5-Jan-07	26	25	22	14	9	9	14	19	27	30	28	28	30	28	21	21	18	13	13	14	18	13	19	11	19.5	30.1
6-Jan-07	12	8	11	12	11	15	15	13	15	17	12	10	15	17	14	12	11	12	10	8	8	10	10	9	12.0	17.5
7-Jan-07	8	10	12	20	17	19	16	17	22	22	25	22	17	19	16	21	19	14	9	4	5	10	17	20	15.9	24.7
8-Jan-07	27	21	25	21	22	16	12	7	10	12	17	16	13	19	15	6	5	8	11	11	12	15	13	8	14.3	27.1
9-Jan-07	9	11	17	16	19	24	20	23	24	31	31	33	34	34	35	37	40	41	36	34	40	41	40	38	29.5	41.2
10-Jan-07	35	32	28	28	25	26	22	27	30	28	29	26	22	23	20	21	16	14	12	8	4	4	3	1	20.2	35.1
11-Jan-07	4	5	7	9	12	12	14	11	9	10	10	15	10	11	5	7	7	7	5	5	5	5	5	3	8.1	14.7
12-Jan-07	8	11	5	5	4	5	2	4	6	5	8	8	7	6	7	8	10	9	4	6	8	7	7	8	6.5	10.8
13-Jan-07	8	12	16	19	19	18	17	17	16	13	11	10	7	4	4	4	6	8	11	12	14	15	15	13	12.1	19.3
14-Jan-07	20	17	7	4	11	8	6	9	9	6	7	6	8	7	8	10	10	11	11	11	9	8	8	10	9.2	19.9
15-Jan-07	9	8	7	7	11	12	14	18	18	14	15	20	22	16	11	17	20	24	27	20	17	21	27	22	16.5	27.2
16-Jan-07	26	23	22	25	26	21	27	22	22	24	25	20	24	19	14	13	13	13	10	12	11	14	14	12	18.8	26.5
17-Jan-07	8	10	8	9	10	10	9	11	10	9	10	10	8	8	3	6	7	6	7	9	9	8	6	3	8.0	11.2
18-Jan-07	4	5	8	10	12	6	6	8	11	9	7	11	7	3	6	6	9	11	12	10	5	9	12	11	8.2	11.9
19-Jan-07	12	10	10	15	16	16	10	13	16	10	10	15	11	15	12	10	5	6	3	3	9	7	8	8	10.4	16.2
20-Jan-07	6	9	7	5	5	4	3	3	4	5	6	8	9	10	15	12	3	9	7	5	6	8	5	3	6.7	15.2
21-Jan-07	8	9	8	9	11	9	14	20	22	23	21	24	29	24	16	8	7	14	13	14	13	6	15	26	15.1	28.5
22-Jan-07	21	9	12	13	11	12	14	18	17	16	16	13	11	9	8	9	8	5	8	18	17	17	12	13	12.7	21.0
23-Jan-07	9	8	11	7	6	4	7	10	9	6	5	6	5	5	6	7	8	9	8	10	11	13	14	18	8.4	17.7
24-Jan-07	15	9	10	13	14	12	14	14	16	18	18	17	12	12	13	14	18	15	12	17	16	23	26	27	15.6	26.8
25-Jan-07	27	23	9	16	9	23	37	29	24	12	22	30	27	13	9	16	14	17	13	11	12	10	9	11	17.6	37.2
26-Jan-07	10	7	11	8	12	14	18	18	18	13	15	19	13	12	11	9	5	6	5	8	10	11	11	14	11.6	19.0
27-Jan-07	18	17	21	22	20	18	19	16	13	10	8	7	9	10	9	9	6	5	4	2	6	11	12	11	11.8	22.0
28-Jan-07	11	10	11	11	8	13	10	11	9	5	4	5	6	6	8	6	3	5	8	11	11	8	10	12	8.4	12.6
29-Jan-07	15	19	19	23	26	30	29	27	24	23	17	8	3	6	8	8	5	7	5	6	4	5	6	8	13.7	29.9
30-Jan-07	11	13	13	10	9	19	14	19	15	16	15	13	10	8	8	7	4	4	7	5	9	7	8	7	10.3	19.4
31-Jan-07	8	7	6	6	10	12	17	16	16	16	12	13	11	13	12	9	11	14	11	15	13	22	23	29	13.3	28.6
1-hr Average	13.8	13.4	13.5	14.1	14.2	15.2	15.6	15.8	16.2	15.4	15.2	15.6	14.1	13.4	12.1	11.9	11.7	11.9	11.3	11.5	11.7	12.4	13.6	13.5		
Hourly Max	35.1	31.7	32.8	31.9	29.9	33.7	37.2	28.8	29.8	30.7	31.2	33.4	34.4	34.4	34.6	37.2	40.0	40.9	35.5	34.1	39.8	41.2	40.0	38.0		

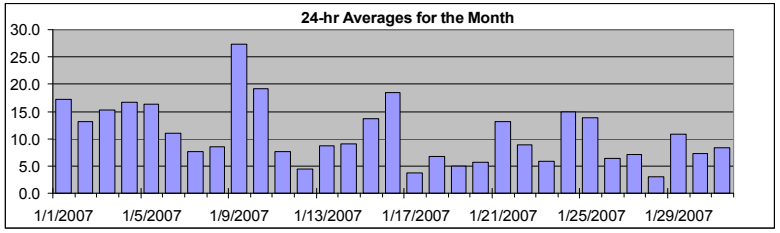
PASZA - Portable-Falher - Vector Wind Speed Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	41.1	km/hr	9-Jan	21:00 22:00
Maximum 24-hr Value:	27.3	km/hr	9-Jan	

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
	36.4	28.4	17.6	11.5	7.8	3.9	2.0	8.1 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**

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-hr Vector Average	Daily Max
1-Jan-07	15	14	18	17	18	24	28	25	24	26	22	17	16	19	21	17	30	30	23	23	17	7	8	10	17.3	30.3
2-Jan-07	10	17	18	22	21	19	18	14	14	12	12	23	18	14	13	15	13	5	1	6	6	11	12	14	13.2	22.7
3-Jan-07	23	27	33	32	30	34	28	21	20	17	13	12	10	7	9	5	7	7	12	11	7	9	15	11	15.2	33.7
4-Jan-07	3	10	3	7	7	8	6	9	16	19	21	18	15	15	18	19	27	22	32	29	28	30	30	28	16.7	31.9
5-Jan-07	26	25	22	14	9	8	13	19	27	30	28	28	30	28	21	21	18	12	13	14	18	13	19	11	16.4	30.1
6-Jan-07	12	8	11	12	11	15	15	13	15	17	12	10	15	17	14	12	11	12	9	8	8	10	10	9	11.0	17.4
7-Jan-07	7	10	12	20	17	19	16	17	22	22	25	22	17	19	16	21	19	9	8	4	5	9	17	20	7.6	24.6
8-Jan-07	27	20	25	21	22	16	12	7	9	11	17	16	13	19	15	5	4	8	10	10	11	15	13	8	8.6	26.8
9-Jan-07	9	10	17	16	19	24	20	23	24	31	31	33	34	34	35	37	40	41	35	34	39	41	40	38	27.3	41.1
10-Jan-07	35	31	28	28	25	26	21	27	30	27	29	26	22	23	20	21	16	14	12	8	4	4	3	1	19.1	34.9
11-Jan-07	4	4	7	9	12	11	14	11	9	10	10	15	10	11	4	7	7	7	5	5	4	4	4	2	7.6	14.7
12-Jan-07	8	11	5	3	4	5	1	4	6	5	7	8	7	6	7	8	9	8	4	6	7	6	6	7	4.4	10.7
13-Jan-07	7	11	16	19	19	18	17	17	16	13	11	10	7	4	3	4	6	8	11	12	14	15	15	13	8.6	19.2
14-Jan-07	20	17	7	3	11	8	6	9	8	6	7	6	8	7	8	10	10	11	11	10	9	7	7	10	9.1	19.9
15-Jan-07	9	8	7	7	11	12	14	18	18	14	14	20	22	16	11	17	20	23	27	20	17	21	27	22	13.7	27.2
16-Jan-07	26	23	22	25	25	20	26	22	22	24	25	20	24	19	14	13	13	13	10	12	11	14	14	12	18.5	26.5
17-Jan-07	8	10	8	9	10	10	9	11	10	9	10	10	8	8	1	6	7	6	7	9	9	8	6	3	3.7	11.2
18-Jan-07	4	5	7	10	11	5	6	8	11	9	7	11	7	2	5	6	9	11	12	9	4	9	12	11	6.8	11.7
19-Jan-07	12	10	10	15	16	16	9	13	15	10	9	15	11	15	12	10	3	5	3	3	8	7	8	8	5.1	16.1
20-Jan-07	6	9	7	4	5	4	3	3	3	5	5	8	9	10	15	12	2	8	7	5	6	8	5	3	5.8	15.1
21-Jan-07	8	9	8	9	11	9	14	20	22	22	21	24	28	24	16	5	2	14	13	14	13	6	12	26	13.1	28.4
22-Jan-07	21	8	12	13	11	12	14	18	17	16	16	12	11	9	8	8	8	1	7	18	17	17	12	13	8.9	21.0
23-Jan-07	9	7	11	7	6	4	7	10	9	5	5	6	4	4	6	7	8	9	8	10	11	12	14	18	5.9	17.6
24-Jan-07	15	9	10	13	14	12	14	14	16	18	17	17	11	11	13	14	18	15	11	17	16	23	26	27	14.9	26.8
25-Jan-07	27	23	8	15	9	22	37	29	24	12	22	30	23	13	9	16	14	17	13	10	12	10	9	11	13.9	37.1
26-Jan-07	10	7	11	8	12	14	18	18	18	13	14	19	13	12	11	9	4	5	5	8	10	11	11	14	6.4	19.0
27-Jan-07	18	17	21	22	20	18	19	16	13	10	8	6	8	10	9	9	6	5	2	1	6	11	12	11	7.2	22.0
28-Jan-07	11	10	11	11	8	12	10	11	8	2	2	4	6	6	7	6	2	5	8	11	11	8	10	12	3.0	12.4
29-Jan-07	15	19	19	23	26	30	29	27	24	23	17	8	2	5	8	8	4	6	5	5	4	4	6	8	10.9	29.9
30-Jan-07	11	13	13	10	9	19	14	19	15	16	15	13	10	8	8	7	2	4	4	5	8	6	8	6	7.2	19.4
31-Jan-07	7	7	6	6	9	11	17	16	16	16	12	13	11	13	11	9	10	14	11	15	12	21	23	29	8.3	28.6
1-hr Vector	4.4	4.3	4.3	4.9	4.9	4.5	4.8	5.1	6.3	6.3	6.3	6.6	5.8	5.4	5.1	4.6	5.1	4.2	3.8	4.4	4.6	3.7	3.6	3.0		
Hourly Max	34.9	31.3	32.7	31.8	29.9	33.7	37.1	28.7	29.8	30.6	31.2	33.3	34.4	34.3	34.6	37.1	40.0	40.6	35.5	34.0	39.4	41.1	39.9	37.9		

PASZA - Portable-Falher - Wind Direction Monthly Summary

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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		
	339.9	307.6	259.8	187.8	143.5	76.6	9.3		204 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 / 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	WD Sector
1-Jan-07	189	172	180	181	169	169	172	173	178	179	186	195	193	184	186	193	235	239	247	231	252	257	139	195	196	SSW
2-Jan-07	174	197	197	197	192	199	193	179	169	149	157	174	163	148	185	180	184	235	195	112	143	185	199	207	182	S
3-Jan-07	243	252	266	269	281	285	292	299	296	296	290	268	270	261	260	259	219	215	222	228	204	235	241	237	267	W
4-Jan-07	206	243	229	192	174	168	235	234	236	235	239	240	237	262	267	264	255	256	258	259	257	256	260	263	249	WSW
5-Jan-07	266	266	261	239	214	177	172	179	176	175	171	172	175	178	180	179	182	156	181	175	179	186	222	216	192	SSW
6-Jan-07	240	271	288	293	303	310	304	285	287	275	269	246	271	276	280	276	270	268	240	232	236	245	240	219	271	W
7-Jan-07	155	155	164	164	148	143	141	127	154	141	129	135	156	193	212	232	247	297	341	324	326	315	316	314	172	S
8-Jan-07	309	325	298	287	282	279	260	234	172	219	255	237	234	252	261	234	142	181	163	157	145	174	179	153	248	WSW
9-Jan-07	144	111	107	114	115	120	113	120	107	101	112	111	110	112	108	108	104	93	79	76	75	61	55	51	96	E
10-Jan-07	48	35	32	30	37	35	12	7	9	12	17	14	10	8	7	4	4	359	357	345	310	314	312	207	17	NNE
11-Jan-07	183	166	161	159	155	186	185	181	156	163	175	182	193	192	189	164	165	174	150	96	128	162	133	140	169	S
12-Jan-07	213	215	239	223	135	228	175	188	215	199	209	210	161	165	138	99	115	159	178	199	217	263	282	305	196	SSW
13-Jan-07	321	9	9	13	25	32	32	40	63	57	63	57	79	98	80	64	90	104	118	123	127	129	126	115	63	ENE
14-Jan-07	127	129	134	151	126	123	119	112	123	122	119	120	124	121	118	114	124	110	118	116	123	134	120	108	122	ESE
15-Jan-07	113	134	163	166	168	168	177	181	201	196	217	235	243	247	251	252	247	245	247	229	222	243	248	250	224	SW
16-Jan-07	255	243	257	258	248	246	259	259	255	239	244	250	264	270	267	267	264	261	255	263	264	263	274	279	257	WSW
17-Jan-07	295	314	297	289	299	282	278	304	301	297	283	268	274	261	226	137	145	112	132	144	160	166	167	164	264	W
18-Jan-07	117	151	191	197	204	195	177	158	186	175	165	194	188	179	179	141	166	202	196	167	100	90	110	111	169	SSE
19-Jan-07	108	113	123	118	119	131	131	145	179	200	209	264	274	275	276	280	238	224	172	183	125	125	112	135	165	SSE
20-Jan-07	149	202	187	205	195	157	173	233	114	165	142	189	192	202	218	235	183	162	157	157	158	135	169	149	182	S
21-Jan-07	195	140	129	159	178	160	167	177	180	193	182	173	176	172	185	228	178	226	223	224	225	226	244	254	192	SSW
22-Jan-07	258	223	205	215	170	156	160	176	174	169	170	156	151	149	148	197	242	312	257	252	259	266	265	264	207	SSW
23-Jan-07	270	249	228	222	200	131	159	205	202	166	207	65	112	132	139	124	154	171	140	128	144	131	126	127	160	SSE
24-Jan-07	130	157	149	133	142	128	133	144	154	162	165	171	164	152	165	175	174	164	159	177	178	184	183	182	163	SSE
25-Jan-07	181	188	215	218	236	262	268	268	267	273	279	285	319	337	292	294	300	299	300	311	295	282	287	292	273	W
26-Jan-07	272	262	282	292	295	307	306	299	297	297	299	298	304	308	317	324	285	254	137	125	125	122	125	123	294	WNW
27-Jan-07	125	126	125	125	129	130	130	131	144	155	169	162	209	199	203	190	232	237	308	226	246	278	299	291	155	SSE
28-Jan-07	287	285	286	287	289	280	286	279	270	258	277	312	283	274	276	265	203	129	117	117	119	114	111	114	265	W
29-Jan-07	111	121	120	123	125	126	130	126	129	129	137	162	228	254	268	257	181	156	148	140	170	170	239	273	137	SE
30-Jan-07	293	286	284	270	281	290	298	289	301	294	292	295	299	302	299	300	303	356	110	147	181	158	136	149	286	WNW
31-Jan-07	154	146	149	126	190	245	288	306	306	314	302	313	309	332	325	314	339	350	338	348	355	7	25	27	334	NNW
Hourly Avg	209	204	216	203	185	193	207	200	197	192	200	209	213	215	219	219	210	215	204	190	186	199	208	214		

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

Station: Portable-Falher
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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
	34.4	21.4	6.7	3.9	2.6	1.6	1.3

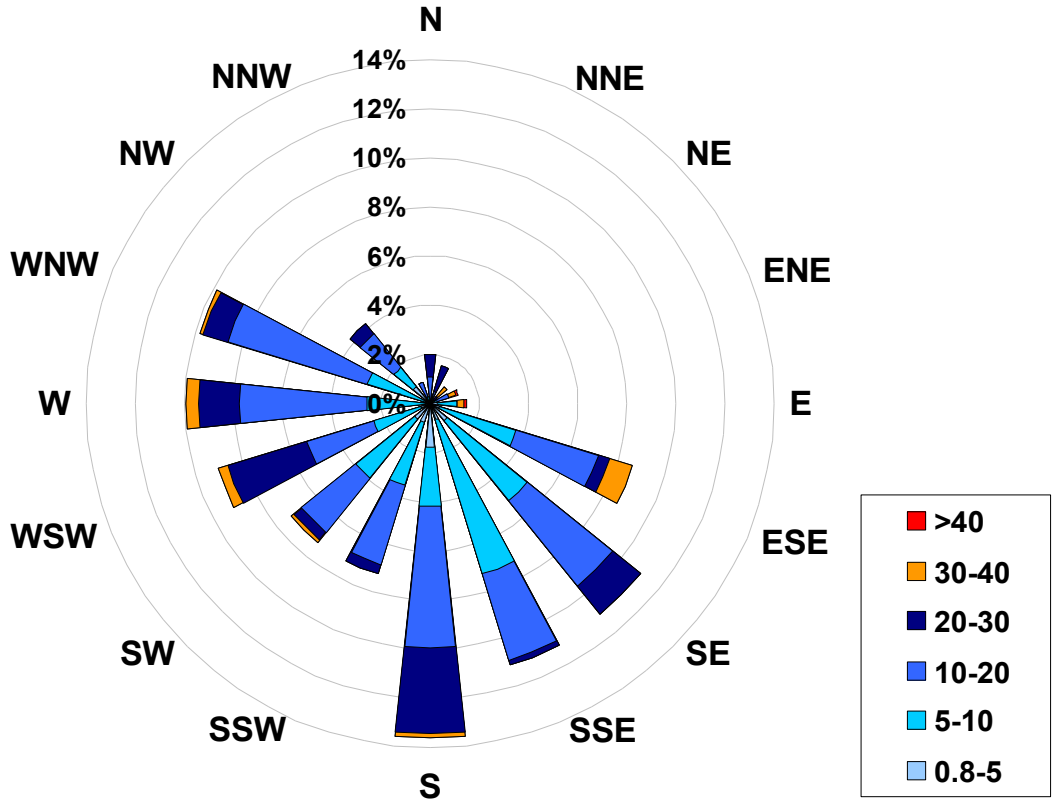
Status Flag Characters

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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	4	5	2	1	4	2	1	1	2	2	5	5	7	2	2	4	4	2	3	3	2	6	20	9	19.5
2-Jan-07	6	7	3	1	2	3	3	4	4	5	7	3	3	6	15	8	6	4	47	7	7	3	3	3	46.9
3-Jan-07	7	2	3	2	2	2	3	3	3	2	5	3	3	4	3	5	6	6	3	3	7	3	2	4	7.0
4-Jan-07	36	8	41	13	10	8	13	24	1	1	2	1	2	6	2	2	2	4	2	1	1	2	1	1	41.5
5-Jan-07	1	1	1	5	5	5	5	2	2	2	3	2	1	2	2	3	2	6	5	4	3	5	8	4	7.6
6-Jan-07	5	7	3	3	4	4	4	5	3	4	4	5	4	2	2	2	3	3	5	2	19	3	2	3	18.7
7-Jan-07	9	5	6	2	3	2	5	4	3	3	2	2	3	3	3	3	2	13	6	13	15	8	3	3	14.6
8-Jan-07	5	6	3	3	3	3	7	10	5	5	7	3	6	2	4	15	16	8	9	12	7	4	3	5	16.0
9-Jan-07	5	11	3	4	3	2	4	3	2	2	2	2	2	2	2	2	2	3	3	4	3	2	3	2	11.3
10-Jan-07	5	9	8	10	3	5	8	3	2	4	4	4	3	3	3	2	3	2	9	9	6	9	8	49	48.8
11-Jan-07	5	3	5	5	4	8	2	2	4	3	2	2	3	3	12	3	4	3	7	15	16	12	8	34	34.4
12-Jan-07	14	4	12	27	14	7	29	10	10	11	6	4	4	7	23	9	8	7	9	5	29	22	6	7	29.2
13-Jan-07	7	8	3	3	3	2	2	2	10	5	4	4	7	8	11	9	10	7	4	5	2	2	2	4	11.5
14-Jan-07	1	1	9	14	1	3	4	3	6	3	4	4	4	4	5	3	3	4	6	6	7	7	15	4	15.3
15-Jan-07	5	6	8	8	2	4	4	2	4	5	4	1	1	3	3	2	3	3	2	3	6	2	2	3	8.4
16-Jan-07	2	4	3	2	2	3	2	2	2	2	2	2	2	2	2	2	2	4	2	2	3	3	3	2	4.4
17-Jan-07	5	3	4	3	6	4	3	3	5	3	3	4	4	4	30	14	10	8	5	5	6	3	9	11	30.1
18-Jan-07	10	4	6	3	2	15	7	6	3	4	6	3	23	24	7	11	4	2	5	12	16	7	6	3	23.7
19-Jan-07	2	3	6	4	4	4	10	6	5	7	8	3	4	2	3	3	29	22	11	28	8	8	5	6	28.6
20-Jan-07	6	4	13	26	27	23	16	6	43	13	21	11	3	4	3	3	39	8	8	10	5	4	12	21	43.4
21-Jan-07	6	8	4	6	2	5	2	3	3	5	2	2	2	2	5	30	28	2	2	3	3	17	15	2	29.9
22-Jan-07	1	12	5	3	6	4	3	2	2	1	3	3	3	6	3	6	5	33	25	1	2	2	3	2	33.0
23-Jan-07	2	8	2	5	11	10	8	5	4	15	21	30	28	8	4	10	4	4	5	4	3	6	4	1	30.5
24-Jan-07	3	4	6	4	5	4	5	3	4	3	3	3	11	6	3	4	3	2	7	2	3	2	3	2	11.0
25-Jan-07	1	4	15	9	4	4	3	4	3	5	3	3	8	8	6	4	2	2	2	12	2	5	4	3	15.4
26-Jan-07	7	11	4	7	5	3	3	3	3	5	5	3	2	2	4	3	12	26	11	6	5	3	2	2	25.6
27-Jan-07	9	1	1	2	1	2	1	3	4	7	7	11	4	3	4	7	29	11	29	55	8	3	5	3	55.0
28-Jan-07	3	3	2	2	5	4	3	2	17	33	18	33	5	4	3	15	26	12	8	4	6	7	4	2	33.0
29-Jan-07	3	3	3	1	2	2	2	2	1	2	4	9	24	13	6	5	17	10	6	11	12	16	4	5	23.9
30-Jan-07	3	3	2	4	5	2	2	1	2	2	2	2	2	3	2	4	21	14	34	12	9	7	3	6	34.4
31-Jan-07	5	4	10	6	5	5	5	2	2	4	5	3	4	4	5	5	6	3	3	3	4	7	3	4	10.0
Hourly Max	36	12	41	27	27	23	29	24	43	33	21	33	28	24	30	30	39	33	47	55	29	22	20	49	

1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for January 2007



Calms:	**0%**

Frequency Distribution of Wind in km/hr			
Range			**Frequency (hrs)**
0.8	<	5	56
5	to	10	233
10	to	20	313
20	to	30	115
30	to	40	25
	>	40	2
Total Non-Zero Values			744

PASZA – Valleyview Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Valleyview - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

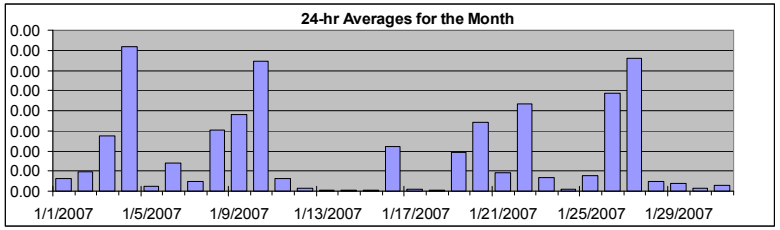
Station: Valleyview
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	0.02	ppm	9-Jan	23:00 0:00
Maximum 24-hr Average:	0.00	ppm	4-Jan	



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
	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00 ppm	0.00 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-Jan-07	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	0.00
2-Jan-07	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	0.00
3-Jan-07	A	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4-Jan-07	A	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	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01
5-Jan-07	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	0.00
6-Jan-07	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
7-Jan-07	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	0.00
8-Jan-07	A	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
9-Jan-07	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	0.01	0.01	0.02	0.00	0.02
10-Jan-07	A	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11-Jan-07	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
12-Jan-07	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
13-Jan-07	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
14-Jan-07	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
15-Jan-07	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
16-Jan-07	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	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
17-Jan-07	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
18-Jan-07	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
19-Jan-07	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
20-Jan-07	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
21-Jan-07	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
22-Jan-07	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	C	C	C	A	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.01
23-Jan-07	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
24-Jan-07	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
25-Jan-07	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
26-Jan-07	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	0.01	0.00	0.01
27-Jan-07	A	0.01	0.01	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01
28-Jan-07	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
29-Jan-07	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
30-Jan-07	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
31-Jan-07	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
Hourly Avg	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hourly Max	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02		

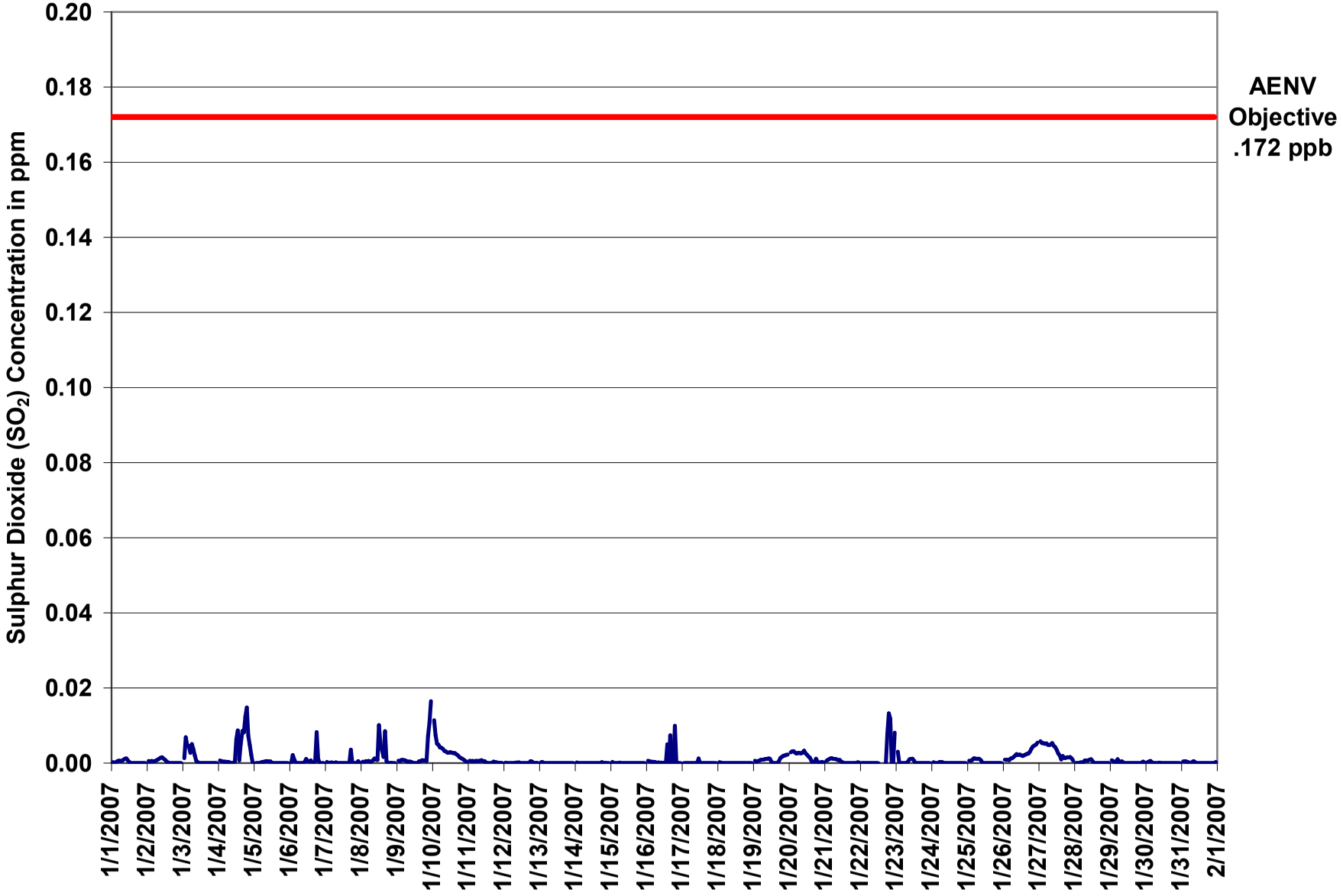


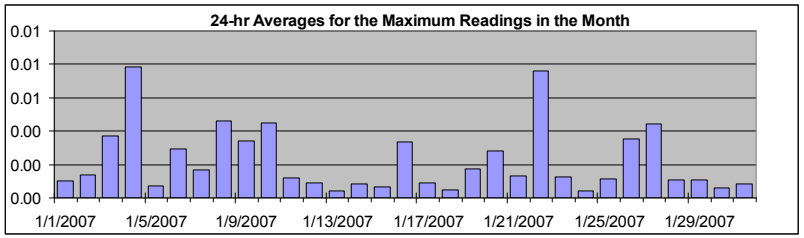
Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	0.03	ppm	22-Jan	18:00 19:00
Maximum 24-hr Value:	0.01	ppm	4-Jan	

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
	0.02	0.01	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	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-Jan-07	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
2-Jan-07	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
3-Jan-07	A	0.00	0.01	0.01	0.01	0.01	0.02	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	0.00	0.00	0.00	0.02
4-Jan-07	A	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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.01	0.02
5-Jan-07	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
6-Jan-07	A	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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7-Jan-07	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
8-Jan-07	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
9-Jan-07	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	0.01	0.02	0.02	0.02
10-Jan-07	A	0.02	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.02
11-Jan-07	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
12-Jan-07	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
13-Jan-07	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
14-Jan-07	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
15-Jan-07	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
16-Jan-07	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	0.02	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02
17-Jan-07	A	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	0.00	0.00	0.00	0.00	0.01
18-Jan-07	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
19-Jan-07	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
20-Jan-07	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
21-Jan-07	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
22-Jan-07	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	C	C	C	A	0.01	0.03	0.03	0.03	0.02	0.00	0.02	0.01	0.03
23-Jan-07	A	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
24-Jan-07	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
25-Jan-07	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
26-Jan-07	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	0.01	0.01	0.01	0.01	0.01	0.00	0.01
27-Jan-07	A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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	0.01
28-Jan-07	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
29-Jan-07	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
30-Jan-07	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
31-Jan-07	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
Hourly Avg	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hourly Max	0.00	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02		

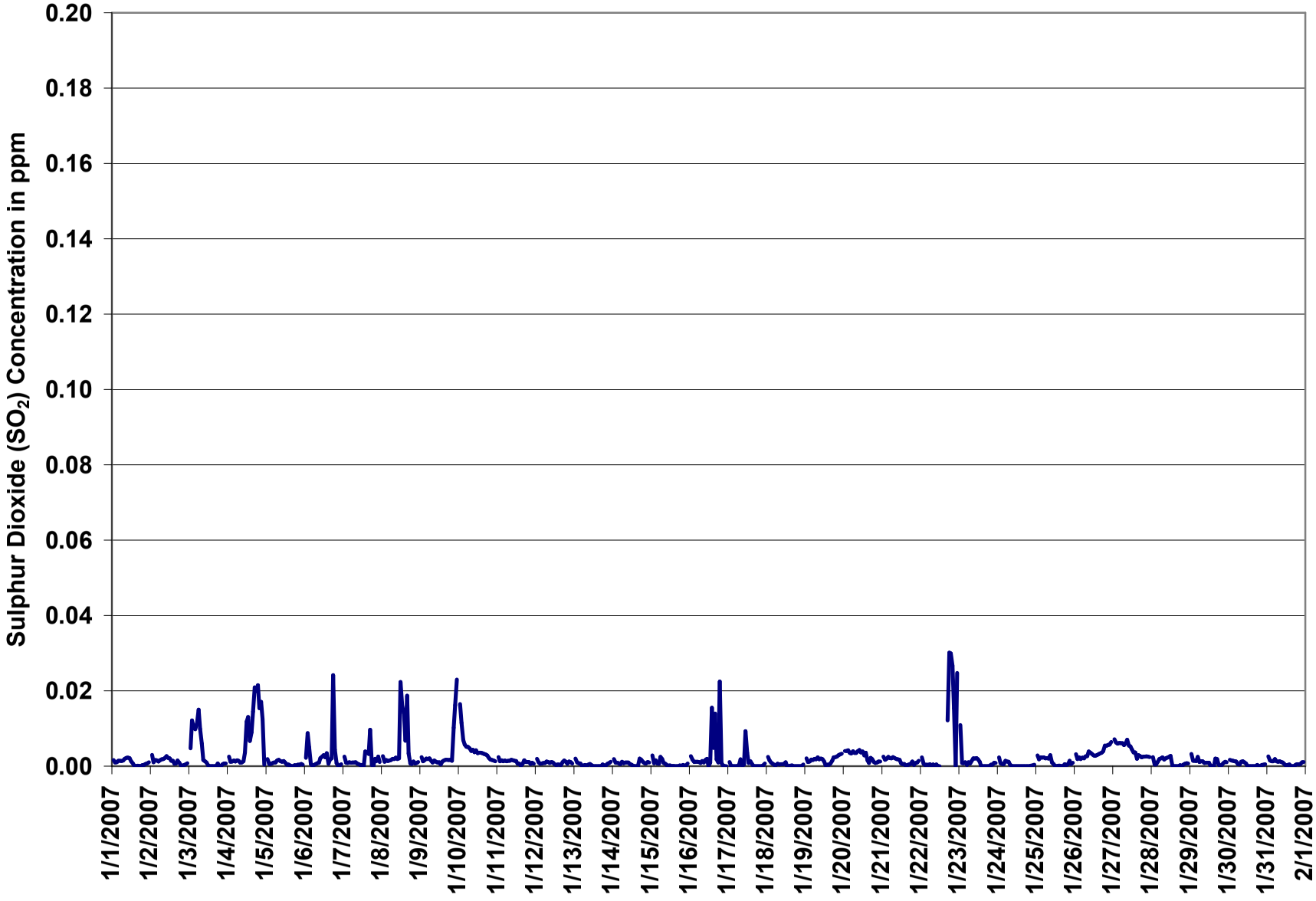
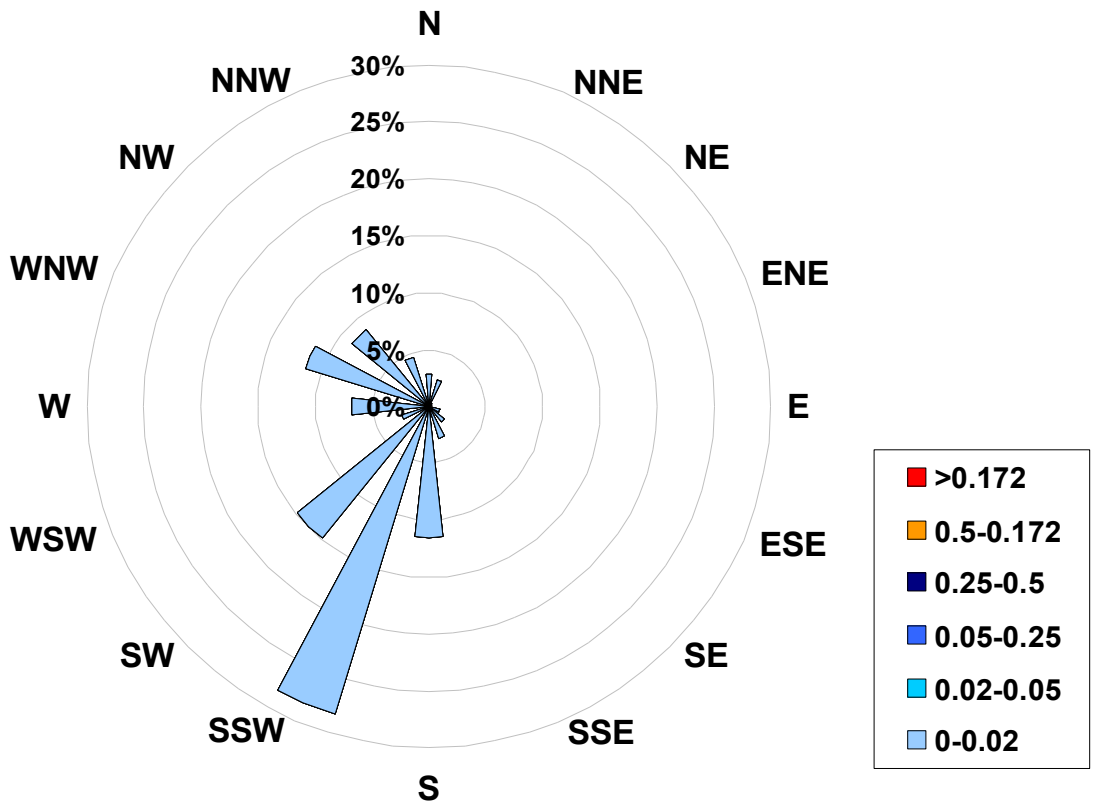


Figure 55. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppm			
Range			Frequency (hrs)
0.00	<	0.02	709
0.02	to	0.05	0
0.05	to	0.25	0
0.25	to	0.50	0
0.50	to	0.17	0
	>	0.17	0
Total Non-Zero Values			709

PASZA - Valleyview - Hydrogen Sulphide Monthly Summary

HOURLY AVERAGE TABLE

Hydrogen Sulphide (H_2S)

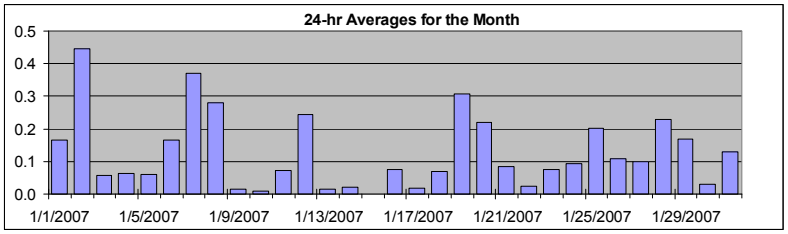
Station: Valleyview
Station Owner: PASZA

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	3.7	ppb	2-Jan	22:00 23:00
Maximum 24-hr Value:	0.4	ppb	2-Jan	



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
	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.1 ppb	0.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-Jan-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	0	0.4	3.7
3-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
4-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
5-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.9
7-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0.4	1.4
8-Jan-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
9-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
10-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
11-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
12-Jan-07	A	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	1.0
13-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
14-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
15-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
17-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
18-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
19-Jan-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
20-Jan-07	A	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	0.8
21-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
22-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0.0	0.1
23-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
24-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
25-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
26-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
27-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
28-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
29-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
30-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
31-Jan-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
Hourly Avg	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		
Hourly Max	0.0	0.6	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.3	0.6	1.0	0.8	1.0	0.8	0.7	1.4	3.7	0.4		

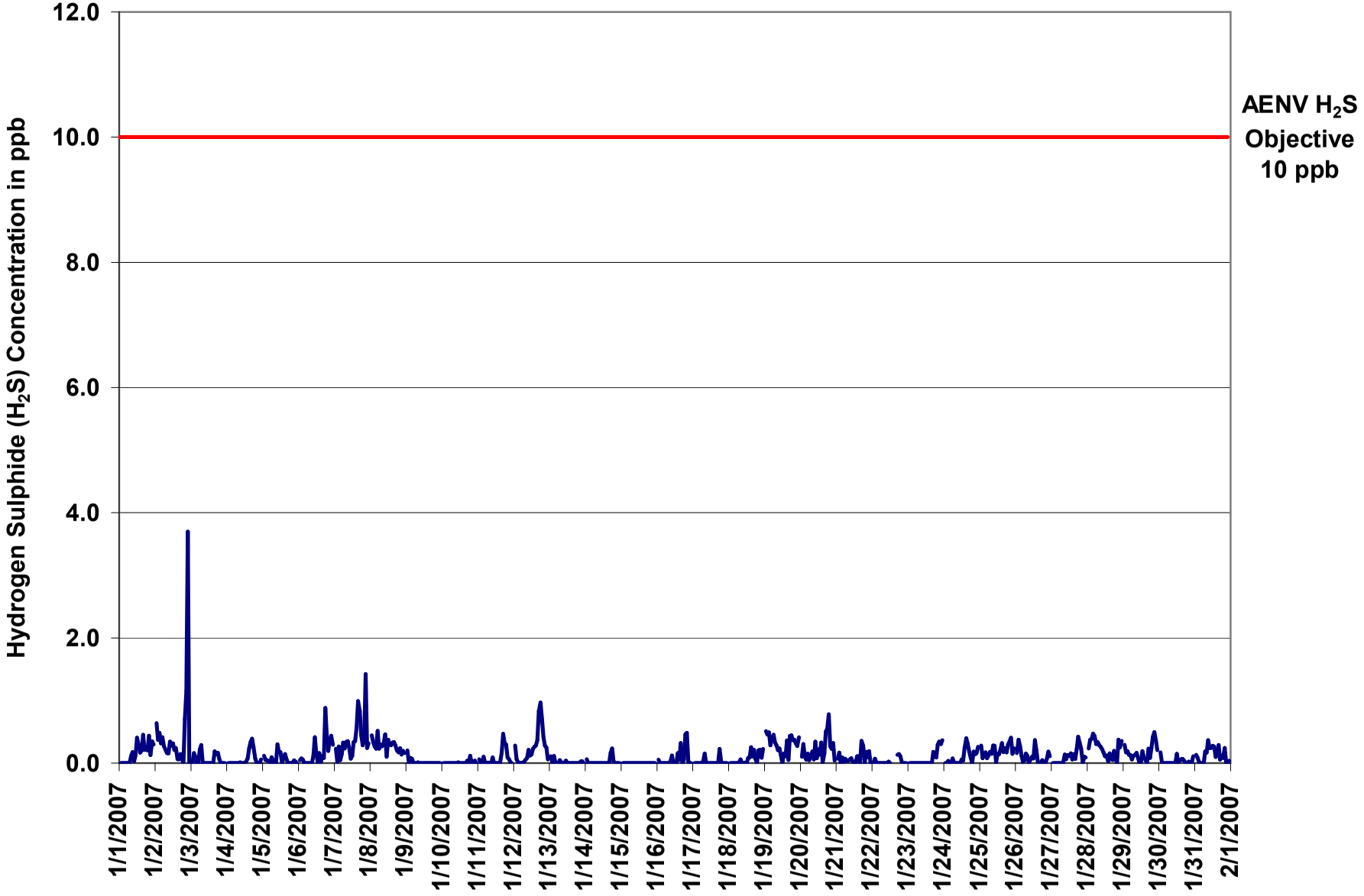


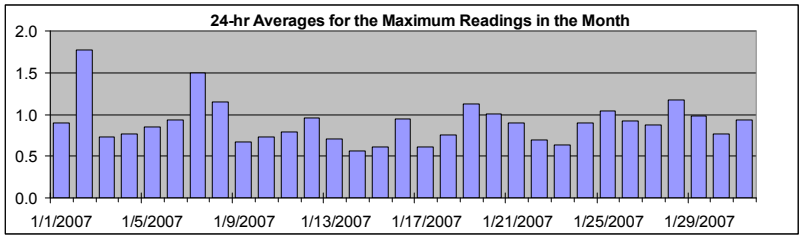
Figure 56. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H_2S)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Value:	14.2	ppb	2-Jan	22:00 23:00
Maximum 24-hr Value:	1.8	ppb	2-Jan	

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
	1.9	1.4	1.1	0.8	0.7	0.4	0.2	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-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
2-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	14	0	1.8	14.2
3-Jan-07	A	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	0	1	0.7	1.5
4-Jan-07	A	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
5-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0.9	1.3
6-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	1.6
7-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	9	1	1	1.5	9.0
8-Jan-07	A	1	1	1	2	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6
9-Jan-07	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	0	0.7	1.2
10-Jan-07	A	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
11-Jan-07	A	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.8	1.3
12-Jan-07	A	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1.0	1.8
13-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0.7	1.1
14-Jan-07	A	1	1	0	1	0	0	1	0	0	0	1	0	0	1	0	1	1	1	1	1	0	1	1	0.6	1.1
15-Jan-07	A	1	1	0	1	1	0	1	1	0	0	0	1	0	0	1	1	1	1	1	1	1	0	1	0.6	1.1
16-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.0	1.6
17-Jan-07	A	0	1	0	0	0	0	1	2	1	0	0	0	1	0	1	1	1	1	1	1	0	1	1	0.6	1.6
18-Jan-07	A	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
19-Jan-07	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.7
20-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.0	1.9
21-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0.9	1.7
22-Jan-07	A	1	1	1	1	0	1	1	1	0	1	1	1	C	C	C	A	1	1	1	1	0	0	0	0.7	1.3
23-Jan-07	A	0	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0.6	1.3
24-Jan-07	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.9	1.5
25-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
26-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
27-Jan-07	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	1.7
28-Jan-07	A	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.0
29-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
30-Jan-07	A	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
31-Jan-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
Hourly Avg	N	0.9	0.9	0.8	0.8	0.7	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	0.9	1.0	1.1	0.9	1.1	1.2	1.2	0.9		
Hourly Max	0.0	1.7	2.0	1.3	1.6	1.5	1.5	1.5	1.7	1.4	1.6	1.3	1.5	1.5	1.2	1.5	1.8	1.9	1.8	1.9	4.3	9.0	14.2	1.4		

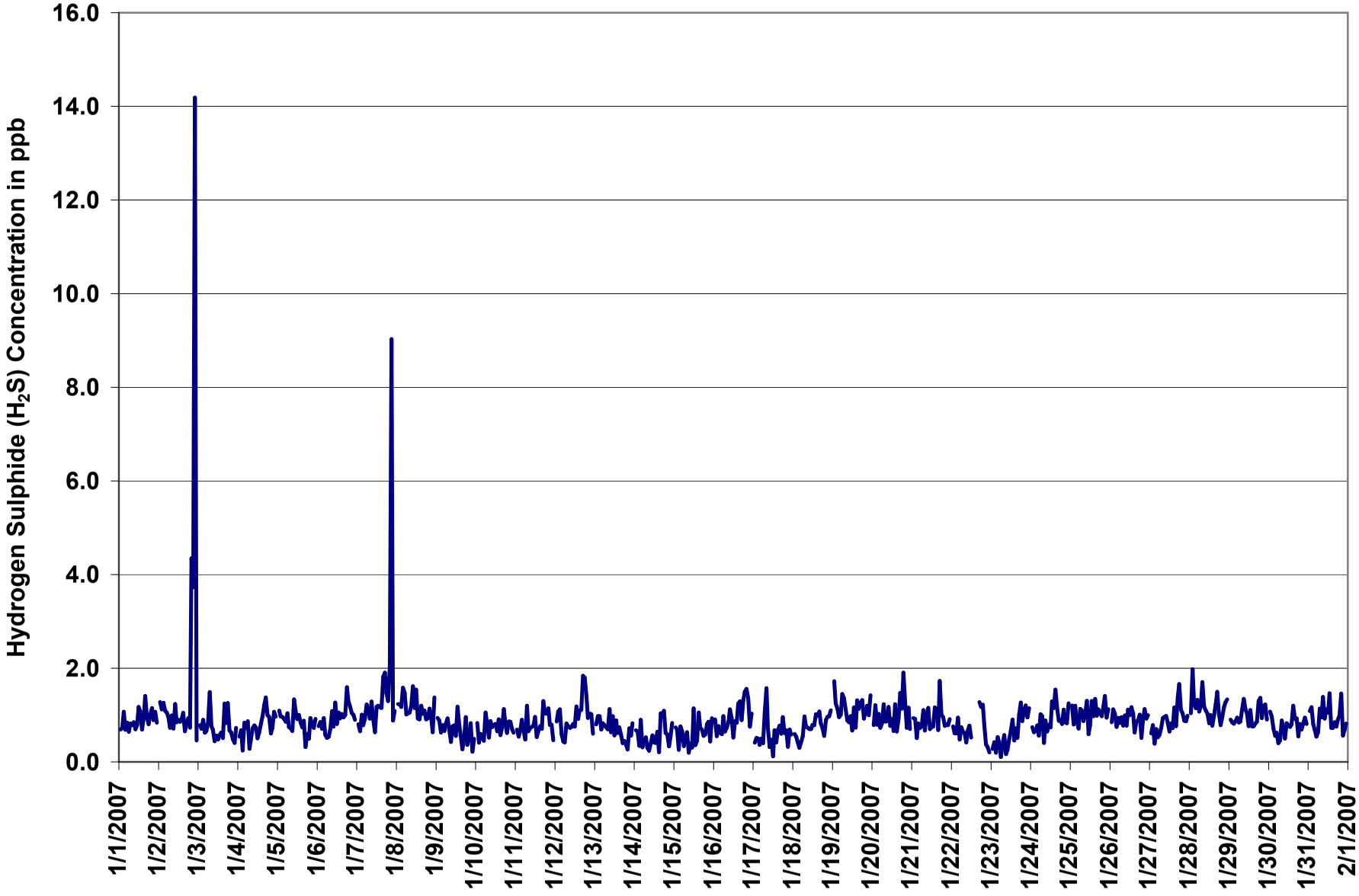
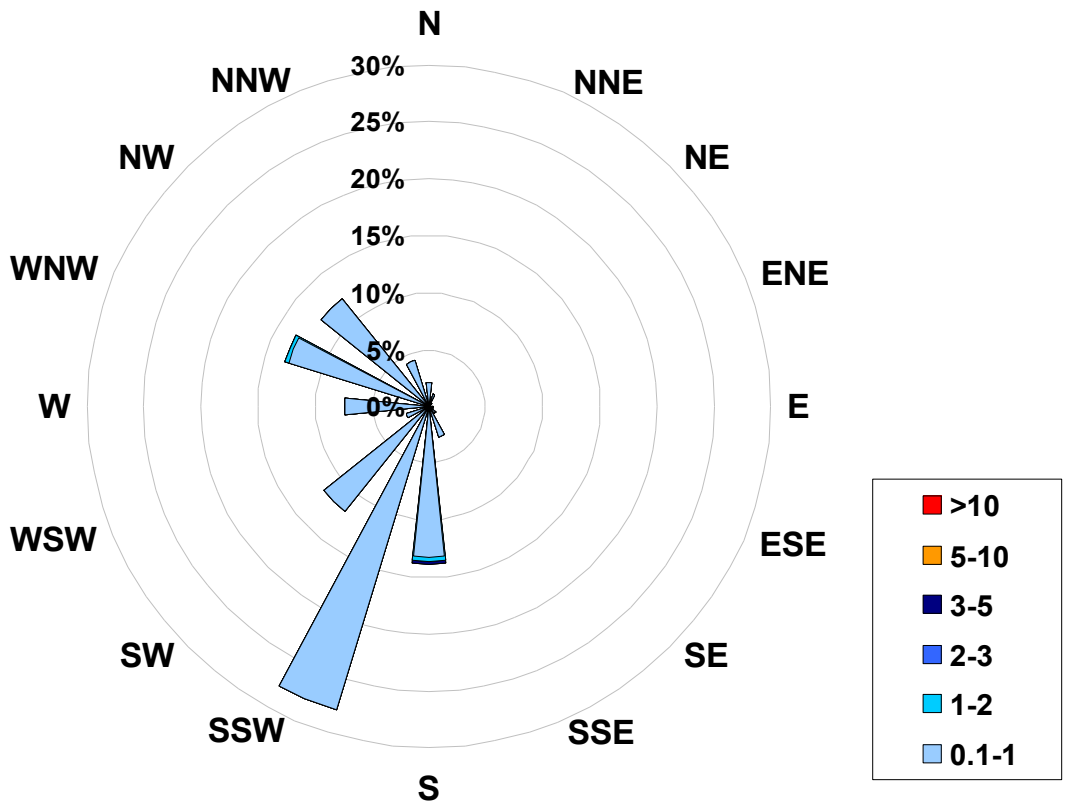


Figure 57. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of H_2S in ppb			
Range			Frequency (hrs)
0.1	<	1	706
1	to	2	2
2	to	3	0
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			709

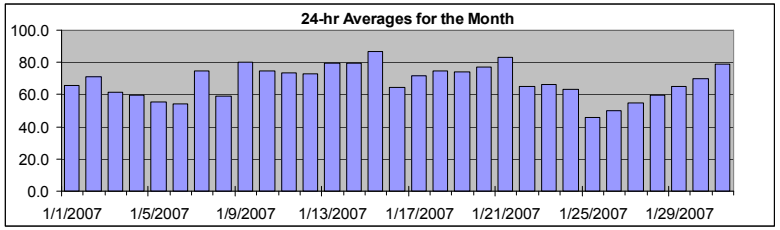
PASZA - Valleyview - Relative Humidity Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	95.3	%	16-Jan	0:00 1:00
Maximum 24-hr Value:	86.8	%	15-Jan	

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
	92.4	88.6	79.4	71.1	56.1	43.4	39.8	68.1 %	71.1 %

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**

Day	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-Jan-07	65	70	70	66	65	66	68	63	62	63	60	76	81	82	75	71	64	63	60	61	60	59	55	58	66.0	81.9
2-Jan-07	66	69	73	70	66	69	72	67	63	62	62	60	58	56	72	83	89	87	90	82	81	77	71	64	71.2	89.6
3-Jan-07	62	65	64	58	55	53	53	54	56	57	59	57	55	51	49	50	56	66	76	73	75	73	74	77	61.1	76.5
4-Jan-07	78	76	75	77	80	82	80	79	77	77	71	61	46	42	34	38	34	35	40	45	46	46	49	54	59.3	81.8
5-Jan-07	56	58	61	65	68	68	69	64	61	66	67	50	43	44	44	44	46	48	50	51	50	49	57	59	55.7	69.1
6-Jan-07	57	60	81	75	66	61	60	57	54	53	52	50	46	44	43	39	40	41	44	48	52	54	61	67	54.3	81.1
7-Jan-07	72	75	73	73	76	73	67	80	94	90	81	77	76	74	71	68	66	65	75	85	54	67	74	92	74.9	93.7
8-Jan-07	82	68	60	56	66	74	82	87	86	78	62	47	44	44	45	46	47	49	48	46	49	53	52	51	59.3	86.6
9-Jan-07	54	54	59	57	71	90	89	88	89	89	88	88	87	80	78	84	85	77	88	92	92	82	78	77	79.9	92.4
10-Jan-07	76	76	75	75	75	76	76	76	78	77	75	73	73	72	72	73	73	73	73	74	74	75	76	77	74.7	77.7
11-Jan-07	79	78	78	78	77	77	76	75	75	74	74	71	65	62	61	61	64	69	74	77	78	79	80	79	73.4	80.1
12-Jan-07	78	78	77	77	77	77	78	77	78	76	75	73	66	60	60	60	66	68	69	75	77	78	75	71	72.8	78.4
13-Jan-07	73	80	80	83	85	83	81	82	81	81	80	79	77	75	72	73	74	79	83	82	81	81	80	80	79.3	84.7
14-Jan-07	81	81	80	79	79	80	79	79	78	78	77	76	74	69	64	67	71	79	86	89	89	90	88	88	79.3	89.6
15-Jan-07	88	88	88	89	89	89	89	88	87	86	86	85	83	82	80	81	84	86	88	88	87	88	91	94	86.8	93.7
16-Jan-07	95	84	82	88	83	80	77	77	74	69	64	61	53	49	46	47	46	49	51	50	53	55	57	59	64.5	95.3
17-Jan-07	61	64	68	72	75	74	70	73	73	73	73	73	70	66	58	60	57	64	75	80	87	86	87	88	71.9	88.1
18-Jan-07	86	83	81	77	77	77	80	82	83	81	79	74	62	56	57	61	63	68	70	73	77	80	83	88	75.0	87.7
19-Jan-07	90	92	92	90	90	88	89	91	88	86	83	72	52	46	46	47	49	54	61	68	71	75	77	78	73.9	92.1
20-Jan-07	81	86	91	92	92	89	88	87	86	83	82	78	69	62	52	49	51	58	69	76	80	82	83	87	77.2	92.3
21-Jan-07	86	88	87	87	87	86	85	84	83	82	84	91	92	85	78	78	77	77	80	70	74	81	84	83	82.9	91.7
22-Jan-07	85	86	86	83	85	80	75	72	70	70	67	63	60	56	53	50	53	50	51	50	50	52	54	57	65.0	86.4
23-Jan-07	57	59	63	64	60	67	68	72	75	75	72	68	60	54	53	53	56	61	67	73	73	80	81	78	66.2	80.8
24-Jan-07	76	85	93	95	94	88	88	79	73	69	65	60	55	51	45	42	40	42	43	46	51	45	43	45	63.0	94.6
25-Jan-07	48	45	45	46	51	49	53	48	52	57	45	45	40	45	42	40	41	42	41	43	43	44	45	48	45.8	56.5
26-Jan-07	52	52	50	49	45	46	48	51	51	51	49	46	44	44	43	42	42	41	45	53	61	64	65	68	50.1	67.5
27-Jan-07	67	69	71	73	68	69	69	71	71	69	61	51	45	42	42	39	40	44	43	41	39	42	42	43	54.8	72.9
28-Jan-07	47	50	51	55	57	59	62	65	65	67	64	55	50	52	49	49	51	55	58	69	73	74	74	76	59.6	76.3
29-Jan-07	79	82	83	79	77	74	66	61	63	62	61	57	52	48	47	49	53	53	59	66	71	76	75	73	65.3	82.9
30-Jan-07	73	72	73	73	74	74	73	73	75	74	69	65	60	58	56	55	56	60	66	69	77	82	85	87	70.0	87.5
31-Jan-07	91	91	89	88	88	87	81	69	70	70	68	68	67	70	75	73	74	75	76	82	84	84	83	86	78.7	91.3
Hourly Avg	72.3	73.1	74.2	73.8	74.2	74.3	73.9	73.3	73.3	72.5	69.5	66.2	61.4	58.7	56.9	57.2	58.3	60.7	64.5	67.0	68.0	69.5	70.3	72.1		
Hourly Max	95.3	92.1	92.5	94.6	94.0	89.6	89.0	90.8	93.7	90.4	88.3	90.8	91.7	85.0	80.0	84.3	88.8	87.2	89.6	92.4	91.6	89.6	91.4	93.7		

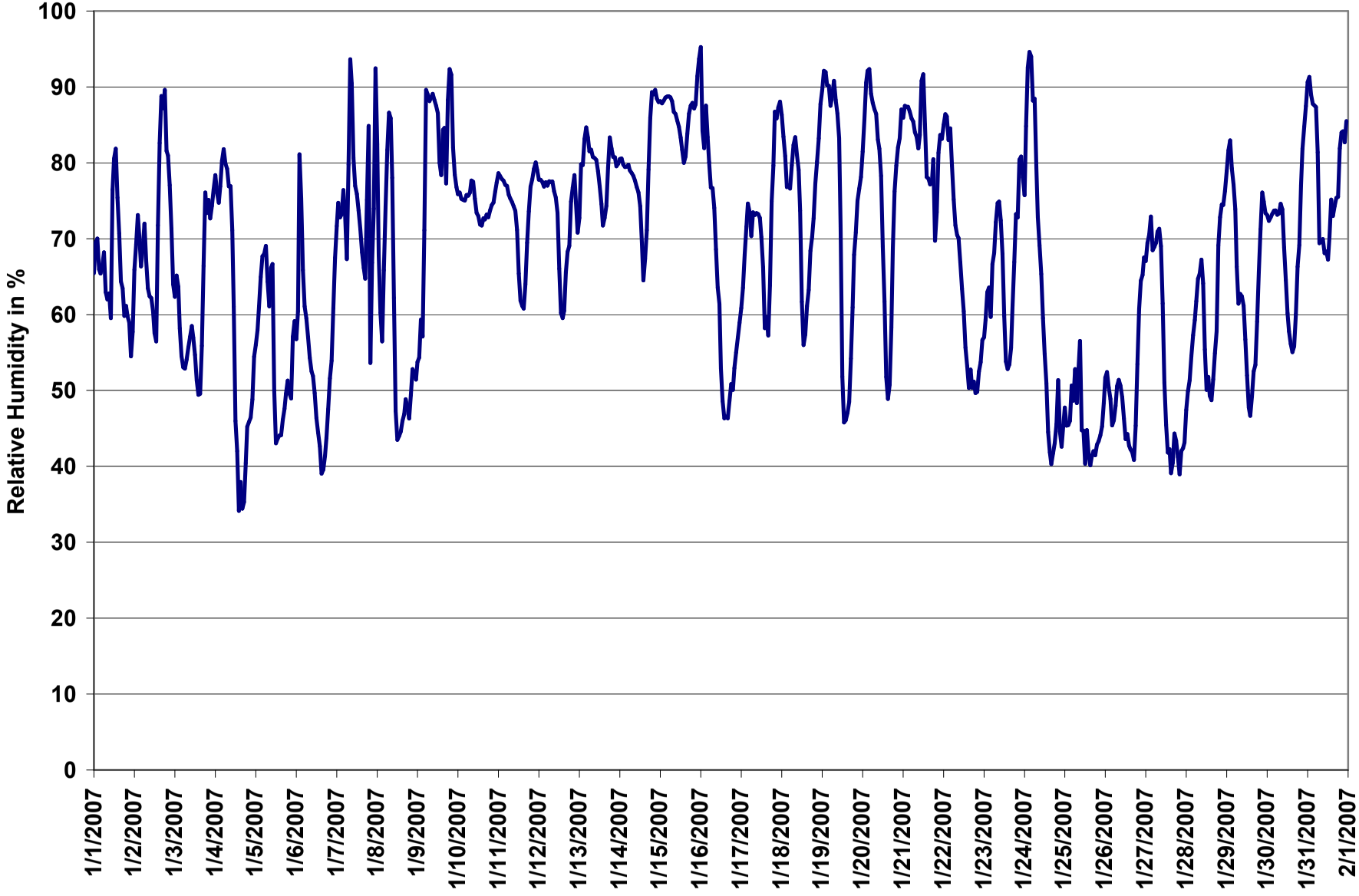


Figure 58. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

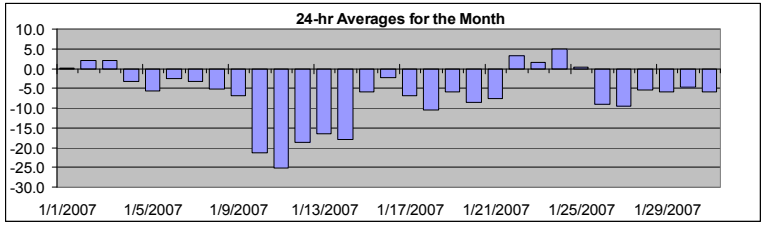
PASZA - Valleyview - Temperature Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	10.1	°C	24-Jan	15:00 16:00
Maximum 24-hr Value:	5.0	°C	24-Jan	

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
	7.5	4.5	-1.3	-4.8	-10.9	-23.1	-26.0	-6.5 °C	-4.8 °C

Status Flag Characters

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

Day **Mountain Standard Time**

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-Jan-07	-6	-6	-6	-4	-3	-3	-4	-2	-2	-2	0	-1	1	1	3	3	4	4	5	4	4	4	5	4	0.1	5.0
2-Jan-07	2	1	0	0	1	0	-1	0	0	0	1	1	3	3	5	4	4	3	3	3	3	3	3	3	1.9	4.9
3-Jan-07	4	4	5	5	5	5	5	4	4	4	3	3	4	4	4	4	3	0	-2	-2	-3	-3	-4	-4	2.1	5.0
4-Jan-07	-5	-5	-5	-6	-7	-7	-7	-7	-6	-6	-5	-2	1	1	1	0	0	-1	-1	-2	-3	-3	-4	-5	-3.4	1.4
5-Jan-07	-5	-6	-7	-9	-9	-10	-11	-11	-11	-11	-11	-7	-4	-3	-2	-2	-2	-2	-2	-2	-2	-2	-3	-4	-5.7	-1.8
6-Jan-07	-3	-3	-1	-1	-1	-2	-2	-3	-2	-2	-2	-2	-1	-1	-1	-1	-1	-2	-2	-3	-4	-5	-6	-8	-2.5	-0.7
7-Jan-07	-8	-9	-9	-9	-10	-9	-8	-7	-6	-4	-3	-3	-2	-2	-1	1	2	3	2	2	3	1	0	-2	-3.2	3.0
8-Jan-07	-2	-4	-5	-6	-6	-7	-8	-9	-9	-9	-7	-5	-3	-3	-3	-3	-3	-4	-4	-4	-5	-6	-6	-6	-5.3	-2.5
9-Jan-07	-7	-7	-8	-7	-7	-7	-6	-5	-5	-5	-4	-4	-4	-3	-3	-4	-4	-4	-5	-6	-7	-16	-18	-19	-6.9	-3.3
10-Jan-07	-20	-20	-20	-20	-20	-20	-20	-20	-20	-19	-20	-20	-21	-21	-22	-22	-23	-23	-23	-23	-23	-23	-23	-23	-21.2	-19.2
11-Jan-07	-24	-24	-25	-26	-28	-30	-31	-31	-31	-31	-29	-26	-23	-22	-21	-20	-20	-22	-23	-22	-22	-23	-24	-24	-25.2	-20.0
12-Jan-07	-24	-25	-25	-24	-24	-23	-24	-25	-25	-25	-24	-21	-17	-13	-12	-12	-13	-13	-13	-14	-13	-14	-13	-11	-18.6	-10.8
13-Jan-07	-9	-9	-10	-11	-12	-13	-15	-15	-16	-17	-17	-16	-16	-16	-16	-16	-16	-18	-19	-22	-23	-24	-25	-25	-16.5	-9.2
14-Jan-07	-24	-21	-21	-22	-23	-23	-23	-24	-25	-24	-22	-19	-17	-13	-11	-11	-11	-12	-13	-14	-14	-13	-14	-14	-17.9	-10.7
15-Jan-07	-14	-13	-12	-12	-11	-11	-10	-8	-7	-7	-6	-6	-5	-4	-2	-1	-2	-2	-2	-2	-1	-1	-3	-3	-6.0	-1.2
16-Jan-07	-5	-3	-2	-4	-4	-4	-4	-4	-4	-4	-3	-2	0	1	1	1	0	-1	-1	-1	-2	-3	-3	-4	-2.3	1.4
17-Jan-07	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-4	-4	-4	-5	-6	-9	-11	-13	-14	-14	-15	-6.9	-3.2
18-Jan-07	-15	-15	-14	-13	-13	-13	-14	-16	-16	-16	-15	-12	-8	-6	-6	-6	-6	-6	-6	-6	-7	-8	-8	-10	-10.6	-5.6
19-Jan-07	-10	-12	-12	-13	-12	-11	-10	-8	-8	-8	-7	-4	1	2	2	1	1	-1	-3	-5	-6	-6	-6	-7	-5.9	1.8
20-Jan-07	-8	-9	-10	-11	-12	-12	-12	-11	-12	-11	-11	-11	-8	-6	-2	0	0	-2	-6	-8	-9	-10	-10	-13	-8.5	-0.3
21-Jan-07	-13	-13	-14	-15	-15	-15	-16	-15	-14	-12	-11	-9	-5	-3	-2	-1	-1	-1	-2	0	-1	-2	-2	-2	-7.7	-0.2
22-Jan-07	-2	-2	-2	-1	-1	-1	0	1	2	2	3	4	5	6	7	8	7	8	7	7	6	6	5	5	3.3	7.8
23-Jan-07	5	4	3	2	3	1	0	-1	-2	-2	-1	0	2	4	5	5	5	4	2	1	1	-1	-1	-1	1.6	5.0
24-Jan-07	0	1	0	0	1	2	2	3	4	5	5	6	7	8	10	10	10	9	9	7	5	5	5	4	5.0	10.1
25-Jan-07	3	2	2	2	0	0	-1	1	3	3	4	3	3	2	1	1	0	-1	-2	-2	-3	-3	-4	-5	0.4	3.6
26-Jan-07	-5	-6	-7	-7	-8	-8	-8	-9	-9	-9	-9	-8	-7	-7	-6	-7	-7	-8	-9	-11	-13	-15	-16	-16	-9.0	-5.4
27-Jan-07	-16	-17	-17	-18	-17	-16	-16	-16	-16	-15	-13	-9	-7	-5	-4	-3	-3	-4	-4	-4	-3	-2	-2	-1	-9.5	-1.3
28-Jan-07	-2	-3	-3	-4	-5	-5	-6	-7	-7	-8	-7	-5	-3	-2	-2	-2	-3	-4	-4	-7	-9	-10	-10	-10	-5.3	-1.6
29-Jan-07	-10	-11	-11	-11	-10	-9	-7	-5	-5	-5	-4	-3	-2	-1	0	-1	-2	-2	-3	-5	-7	-8	-8	-8	-5.8	0.2
30-Jan-07	-8	-7	-6	-5	-5	-5	-5	-5	-5	-5	-4	-3	-2	-1	-1	-1	-1	-2	-4	-4	-6	-8	-9	-10	-4.7	-0.8
31-Jan-07	-12	-12	-12	-12	-11	-11	-9	-5	-5	-5	-4	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-4	-5	-7	-6.0	-2.6
Hourly Avg	-8.0	-8.2	-8.4	-8.6	-8.7	-8.8	-8.9	-8.6	-8.4	-8.2	-7.4	-6.0	-4.4	-3.4	-2.7	-2.6	-2.9	-3.6	-4.5	-5.2	-5.8	-6.6	-7.2	-7.7		
Hourly Max	4.9	4.3	4.6	4.8	5.0	4.9	4.7	4.3	4.0	4.6	5.3	6.5	7.5	8.3	9.7	10.1	10.0	9.2	8.6	7.4	6.5	5.8	5.4	4.6		

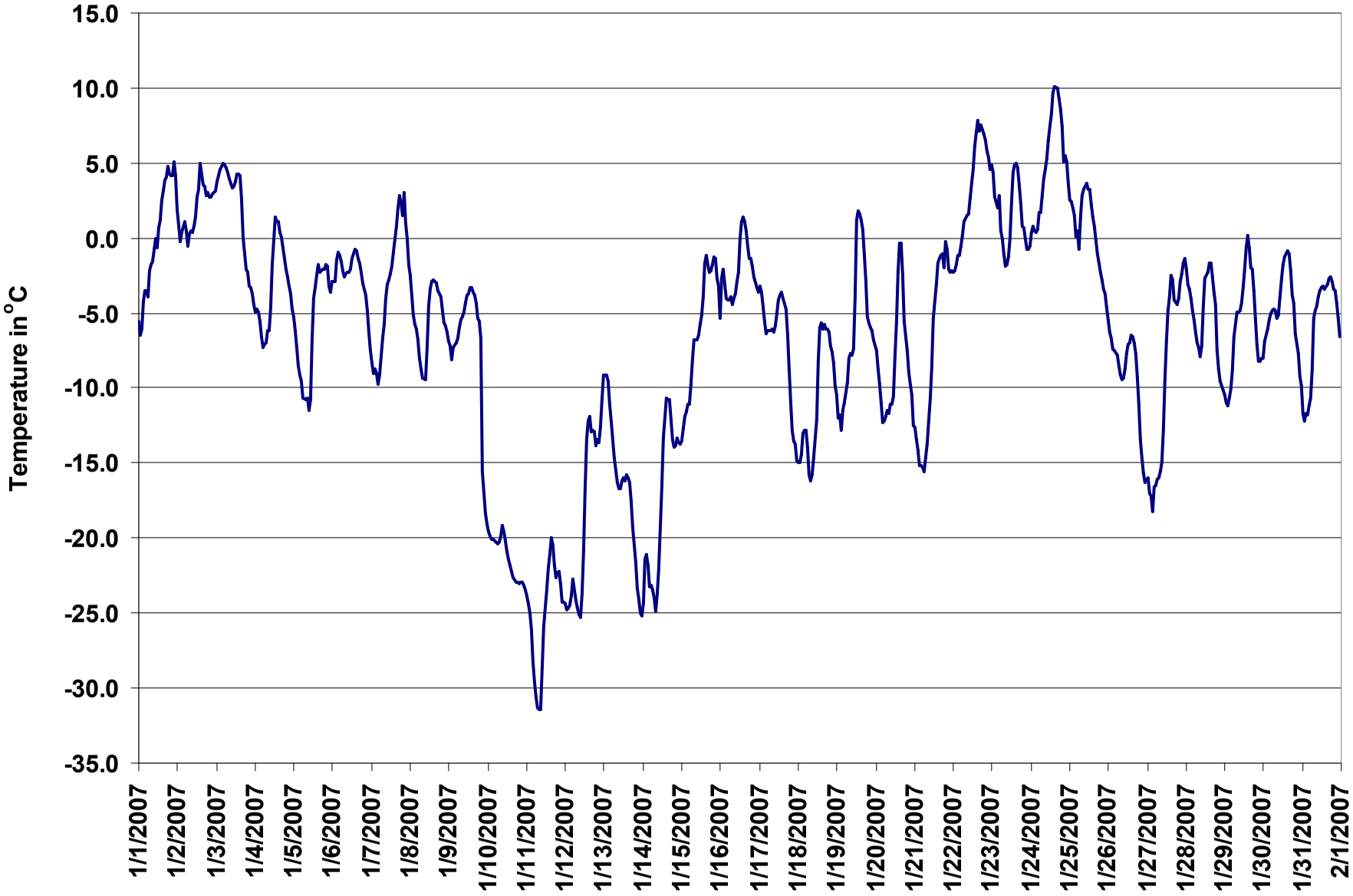


Figure 59. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

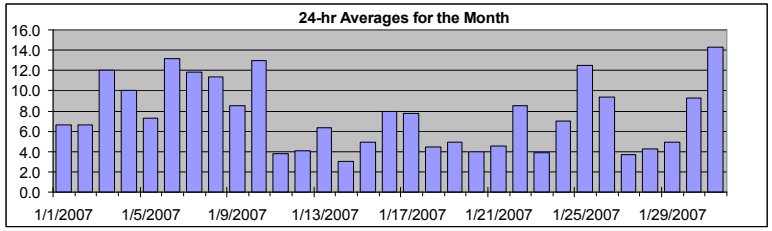
PASZA - Valleyview - Scalar Wind Speed Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	38.2	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	14.3	km/hr	31-Jan	

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
	24.8	18.6	10.0	5.7	3.6	2.0	1.5	7.6 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

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-hr Scalar Average	Daily Max
1-Jan-07	4	5	6	7	5	3	5	7	6	6	9	7	6	7	10	9	8	6	7	6	7	7	7	5	6.6	10.3
2-Jan-07	5	4	3	5	6	5	6	9	9	9	8	3	5	7	17	13	5	4	4	6	5	6	7	9	6.7	16.7
3-Jan-07	8	13	18	25	23	22	19	21	22	20	16	13	11	10	9	6	2	2	3	4	5	5	5	6	12.0	24.8
4-Jan-07	6	5	7	4	6	5	8	5	5	7	6	7	17	14	17	9	17	18	17	15	15	11	12	8	10.1	18.2
5-Jan-07	7	5	5	5	7	7	8	9	7	4	2	8	12	11	11	10	9	8	8	9	8	7	6	3	7.3	11.9
6-Jan-07	4	6	10	12	12	18	15	12	17	18	15	20	23	19	19	19	18	18	11	9	7	5	5	4	13.2	22.9
7-Jan-07	4	5	4	3	2	4	3	6	6	9	15	12	8	6	2	7	9	12	14	17	38	37	34	28	11.9	38.2
8-Jan-07	24	28	25	20	13	8	5	5	3	5	7	14	15	18	15	15	12	5	5	7	7	6	5	6	11.4	27.8
9-Jan-07	3	3	3	4	8	11	13	12	10	8	10	9	7	9	11	7	7	9	7	4	8	14	14	15	8.5	15.2
10-Jan-07	16	15	18	19	17	18	16	16	13	15	19	18	20	19	20	15	10	8	7	3	2	1	2	3	13.0	20.4
11-Jan-07	3	2	2	2	4	4	3	3	4	4	6	5	7	5	6	4	2	2	4	5	5	2	3	3	3.7	6.8
12-Jan-07	3	5	5	6	7	3	4	6	5	5	7	7	6	4	3	1	2	2	2	4	3	3	3	2	4.1	7.5
13-Jan-07	4	6	12	10	8	9	11	8	12	10	8	8	8	9	7	6	4	3	1	2	1	2	1	2	6.4	11.9
14-Jan-07	3	4	4	2	2	3	3	2	2	2	4	4	4	5	3	3	2	3	4	2	3	4	3	3	3.0	4.6
15-Jan-07	4	4	4	4	4	4	6	6	6	6	7	8	6	6	5	4	3	5	6	7	4	4	3	3	5.0	7.9
16-Jan-07	2	6	4	5	6	7	8	5	5	5	5	6	7	11	18	14	8	8	9	11	10	10	11	10	8.0	18.0
17-Jan-07	14	13	13	11	12	11	10	13	11	10	11	9	2	4	6	6	5	2	3	3	4	6	5	3	7.8	13.7
18-Jan-07	5	5	5	8	6	4	2	3	6	5	6	7	4	4	4	5	3	4	3	5	4	3	2	2	4.4	7.7
19-Jan-07	2	2	2	2	2	2	4	3	4	4	3	9	14	15	9	6	6	3	2	4	4	6	5	4	4.9	14.8
20-Jan-07	5	5	4	2	5	5	6	6	5	4	3	3	2	2	4	5	3	2	2	4	5	5	4	4	4.0	6.4
21-Jan-07	4	3	2	3	3	2	3	2	4	2	5	8	10	10	8	7	5	2	3	5	4	4	4	3	4.5	10.3
22-Jan-07	5	4	5	4	6	6	6	8	8	8	7	8	6	5	3	9	7	16	16	15	15	14	12	11	8.6	16.5
23-Jan-07	12	10	5	4	5	4	3	4	5	6	4	3	3	3	4	3	2	3	2	2	2	1	1	3	3.8	12.0
24-Jan-07	5	3	2	1	4	3	2	6	7	7	10	11	12	9	10	10	9	10	9	5	5	11	9	9	7.0	11.9
25-Jan-07	8	9	7	7	6	6	4	7	9	13	19	15	21	27	22	18	17	17	14	11	11	9	12	11	12.5	27.2
26-Jan-07	11	10	9	9	11	11	12	11	13	13	13	16	15	15	13	12	7	6	2	2	3	4	3	4	9.4	16.5
27-Jan-07	2	3	3	3	5	2	3	2	3	3	4	4	4	4	4	2	2	3	4	2	4	8	6	6	3.7	8.5
28-Jan-07	10	8	11	10	6	3	4	3	3	3	4	3	3	6	8	4	2	2	2	2	2	2	2	2	4.3	10.6
29-Jan-07	2	3	2	4	3	4	4	15	10	8	11	6	6	6	5	7	6	2	2	2	2	3	2	3	4.9	15.0
30-Jan-07	4	4	10	8	8	8	11	15	19	14	10	13	14	11	13	15	13	9	5	3	4	4	4	3	9.3	18.5
31-Jan-07	3	4	2	5	3	4	6	10	16	16	16	20	22	19	19	12	14	21	23	18	24	20	26	23	14.3	25.7
1-hr Average	6.2	6.4	6.8	6.9	6.8	6.6	6.8	7.8	8.2	8.2	8.7	9.2	9.6	9.7	9.8	8.5	7.1	7.0	6.5	6.3	7.2	7.3	7.1	6.5		
Hourly Max	24.2	27.8	24.8	24.8	23.3	22.3	18.6	21.0	22.1	20.0	18.9	20.2	22.9	27.2	22.0	19.5	17.6	21.3	22.9	17.8	38.2	36.5	33.8	28.0		

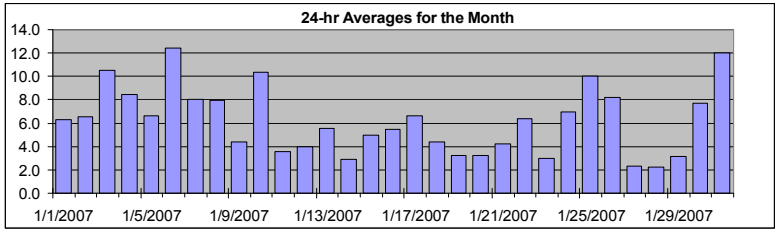
PASZA - Valleyview - Vector Wind Speed Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007



Summary

Maximum 1-hr Average:	37.9	km/hr	7-Jan	20:00 21:00
Maximum 24-hr Value:	12.4	km/hr	6-Jan	

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
	24.7	18.5	9.9	5.5	3.3	1.3	0.4	15.7 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**

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-hr Vector Average	Daily Max
1-Jan-07	4	5	6	7	5	3	5	7	6	6	9	7	6	7	10	9	8	6	7	6	7	7	7	5	6.3	10.2
2-Jan-07	5	4	3	5	6	5	6	9	9	9	8	2	4	6	17	13	5	4	4	6	5	6	7	9	6.5	16.6
3-Jan-07	8	12	18	25	23	22	18	21	22	20	16	13	11	10	9	6	1	2	2	4	4	5	5	6	10.5	24.7
4-Jan-07	6	5	7	4	5	5	8	5	5	7	6	6	17	14	16	9	17	18	16	15	15	11	12	8	8.5	18.1
5-Jan-07	6	5	5	5	7	7	8	9	7	4	1	8	12	10	10	9	9	8	8	9	8	7	3	2	6.6	11.8
6-Jan-07	4	5	10	12	11	18	15	12	17	18	15	20	23	19	19	19	18	18	10	9	7	5	5	4	12.4	22.8
7-Jan-07	4	5	4	1	2	3	2	6	6	9	15	12	7	6	2	5	9	12	13	17	38	36	34	28	8.0	37.9
8-Jan-07	24	28	25	20	13	8	3	4	3	4	4	14	15	18	15	15	12	4	5	7	7	6	5	6	7.9	27.7
9-Jan-07	3	2	2	3	8	11	12	12	10	8	9	9	6	9	10	7	7	9	7	3	7	14	14	15	4.4	15.0
10-Jan-07	16	15	17	19	17	18	16	16	13	15	19	18	20	19	20	15	10	8	7	3	2	0	2	2	10.3	20.4
11-Jan-07	3	2	2	2	4	4	3	3	3	4	6	5	7	5	5	4	1	1	4	5	5	1	2	3	3.6	6.6
12-Jan-07	3	5	5	6	7	3	4	6	5	5	7	7	6	4	3	0	2	1	1	4	3	3	3	1	4.0	7.5
13-Jan-07	4	5	12	10	8	9	11	8	12	10	8	8	8	9	7	5	4	3	1	2	1	2	1	1	5.6	11.8
14-Jan-07	3	4	4	2	2	3	2	2	2	2	4	4	4	5	2	2	1	2	4	2	2	4	2	3	2.9	4.5
15-Jan-07	4	4	4	4	4	4	6	6	6	6	7	8	6	6	5	4	3	5	6	6	4	4	2	3	4.9	7.9
16-Jan-07	1	6	4	4	5	6	8	4	4	3	5	6	7	11	18	14	8	8	9	11	10	10	11	10	5.4	17.9
17-Jan-07	14	13	13	11	11	10	10	13	11	10	11	9	1	4	6	6	5	2	3	2	4	6	5	3	6.6	13.7
18-Jan-07	5	5	5	8	6	4	2	3	6	5	6	7	4	4	4	5	3	4	3	5	4	3	2	2	4.4	7.7
19-Jan-07	1	1	2	2	2	2	3	3	4	4	2	7	14	15	9	5	5	2	2	4	4	6	5	4	3.2	14.6
20-Jan-07	5	5	4	1	5	5	6	6	3	4	3	2	1	1	4	5	3	2	2	4	5	5	4	4	3.2	6.4
21-Jan-07	4	3	2	3	3	2	3	2	3	2	5	8	10	10	8	7	5	0	3	4	4	4	4	3	4.2	10.2
22-Jan-07	5	4	5	4	6	6	6	8	8	8	7	8	6	5	2	9	7	16	16	15	15	14	12	11	6.4	16.4
23-Jan-07	12	9	4	3	4	3	3	4	5	6	3	2	3	3	4	3	1	3	1	2	1	0	0	3	3.0	11.9
24-Jan-07	5	2	1	1	4	3	2	6	7	7	10	11	12	9	10	10	9	10	8	5	5	11	9	9	6.9	11.9
25-Jan-07	8	9	7	6	6	6	3	6	9	13	18	15	20	27	22	18	16	17	14	11	10	9	12	11	10.0	27.1
26-Jan-07	11	10	9	9	10	10	12	11	13	13	13	16	15	15	13	12	7	6	1	2	3	3	2	3	8.2	16.4
27-Jan-07	2	2	1	2	4	1	3	2	3	3	4	4	4	4	4	2	2	3	1	2	4	8	6	6	2.3	8.2
28-Jan-07	10	8	11	10	3	2	1	2	2	3	3	0	1	6	8	4	1	1	0	1	1	1	2	1	2.3	10.6
29-Jan-07	2	2	2	1	0	1	3	15	10	8	11	6	6	6	5	6	6	1	1	2	2	2	0	1	3.2	14.8
30-Jan-07	4	2	10	8	7	8	11	15	18	14	10	13	14	11	13	15	13	9	5	3	4	4	4	3	7.7	18.4
31-Jan-07	3	4	2	5	0	4	4	10	16	16	16	19	22	19	19	12	14	21	23	18	24	20	26	22	12.0	25.6
1-hr Vector	4.2	4.3	4.2	4.0	3.8	3.5	3.7	4.2	4.1	4.0	4.0	4.2	4.6	5.1	4.9	4.6	3.9	3.5	3.0	3.5	3.9	4.2	4.1	3.4		
Hourly Max	24.1	27.7	24.6	24.7	23.2	22.1	18.5	20.9	22.0	19.9	18.9	20.0	22.8	27.1	21.8	19.3	17.5	21.2	22.8	17.7	37.9	36.4	33.6	27.7		

PASZA - Valleyview - Wind Direction Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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	
	348.6	327.7	281.7	213.9	193.8	112.2	5.2	264 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 / 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	WD Sector
1-Jan-07	225	218	217	210	214	228	214	204	211	210	197	190	200	205	190	193	197	167	171	158	181	166	197	179	196	SSW
2-Jan-07	202	218	219	214	204	213	213	201	193	195	196	169	168	208	189	189	191	197	205	194	184	190	188	202	197	SSW
3-Jan-07	199	270	282	289	287	291	288	290	291	296	296	295	297	300	297	300	218	189	191	203	201	204	210	214	281	WNW
4-Jan-07	207	194	194	200	212	215	211	214	213	212	207	233	280	281	293	280	286	286	284	279	278	273	271	254	262	W
5-Jan-07	247	212	185	198	180	192	193	194	206	224	238	194	195	195	192	191	194	188	191	190	191	193	337	158	197	SSW
6-Jan-07	214	267	274	292	303	311	307	305	299	296	294	289	293	294	292	297	296	294	283	273	260	248	207	205	290	WNW
7-Jan-07	218	193	185	175	332	192	204	194	175	184	188	191	192	196	191	268	287	288	309	298	291	294	299	300	270	W
8-Jan-07	315	318	318	316	311	280	224	173	182	180	251	272	278	276	274	274	275	204	176	188	187	187	186	187	279	W
9-Jan-07	151	137	16	164	145	141	140	143	144	155	165	161	141	143	150	134	104	107	122	36	39	279	279	283	150	SSE
10-Jan-07	283	290	290	298	297	303	304	302	308	345	356	355	359	1	358	5	13	23	28	24	57	119	187	161	330	NNW
11-Jan-07	198	221	170	196	204	220	223	219	227	226	212	212	200	211	213	215	320	224	215	215	216	211	215	230	214	SW
12-Jan-07	240	211	210	215	182	160	180	191	195	217	213	211	214	214	213	301	276	264	207	212	201	218	228	232	209	SSW
13-Jan-07	324	349	348	19	32	27	30	24	14	17	14	13	1	351	341	344	17	6	316	187	158	319	237	228	7	N
14-Jan-07	228	214	216	227	241	222	238	238	226	237	211	206	210	211	231	283	270	224	215	232	226	220	233	223	225	SW
15-Jan-07	217	219	214	208	220	217	203	205	209	208	210	210	204	196	196	209	219	212	210	209	207	205	204	205	208	SSW
16-Jan-07	199	219	208	146	176	152	188	177	112	165	208	202	262	277	287	293	276	261	278	284	286	273	269	279	254	WSW
17-Jan-07	294	293	297	305	299	307	306	289	290	296	295	290	335	247	259	266	261	187	200	208	194	205	212	212	283	WNW
18-Jan-07	213	212	214	202	208	195	224	220	217	214	214	208	198	210	210	211	217	217	219	211	221	210	232	176	211	SSW
19-Jan-07	267	322	212	269	249	215	202	213	222	207	209	270	299	301	313	349	340	308	190	220	222	209	205	216	265	W
20-Jan-07	216	214	218	215	214	209	214	208	164	183	316	9	214	4	207	255	264	222	221	207	216	195	218	210	216	SW
21-Jan-07	215	220	252	216	222	223	209	228	201	216	208	195	194	195	192	191	187	37	226	216	202	215	208	204	204	SSW
22-Jan-07	208	204	196	201	204	194	198	195	195	193	197	193	181	193	233	263	270	292	287	289	282	269	272	275	245	WSW
23-Jan-07	277	267	154	190	248	229	229	216	213	208	196	178	182	199	197	155	194	198	178	183	191	352	17	213	217	SW
24-Jan-07	202	180	202	240	194	205	189	178	186	184	196	190	190	189	189	185	194	196	195	193	212	191	183	186	191	S
25-Jan-07	197	201	208	230	193	210	228	304	305	300	313	326	319	325	330	318	313	319	314	309	300	297	299	319	304	NW
26-Jan-07	305	299	293	298	300	303	303	310	307	301	307	318	331	321	324	323	320	305	76	189	199	202	205	196	307	NW
27-Jan-07	229	234	198	186	209	222	207	260	213	220	213	213	215	211	210	216	217	215	260	3	5	325	313	304	244	WSW
28-Jan-07	322	307	306	304	277	281	253	184	143	165	123	287	303	318	334	343	3	115	94	215	217	199	190	174	296	WNW
29-Jan-07	183	194	231	153	191	325	180	190	182	193	191	197	203	204	309	340	10	277	188	205	199	206	271	192	203	SSW
30-Jan-07	189	332	323	311	326	313	314	305	300	306	323	326	333	328	328	334	337	333	320	267	184	192	175	186	316	NW
31-Jan-07	210	202	222	207	139	214	235	307	313	325	339	347	346	344	341	341	337	338	343	342	347	11	2	19	342	NNW
Hourly Avg	253	260	268	266	255	260	248	245	254	256	255	264	277	281	280	284	288	281	269	256	261	254	264	254		

PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 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
	55.9	42.1	15.7	8.6	6.1	4.0	2.8

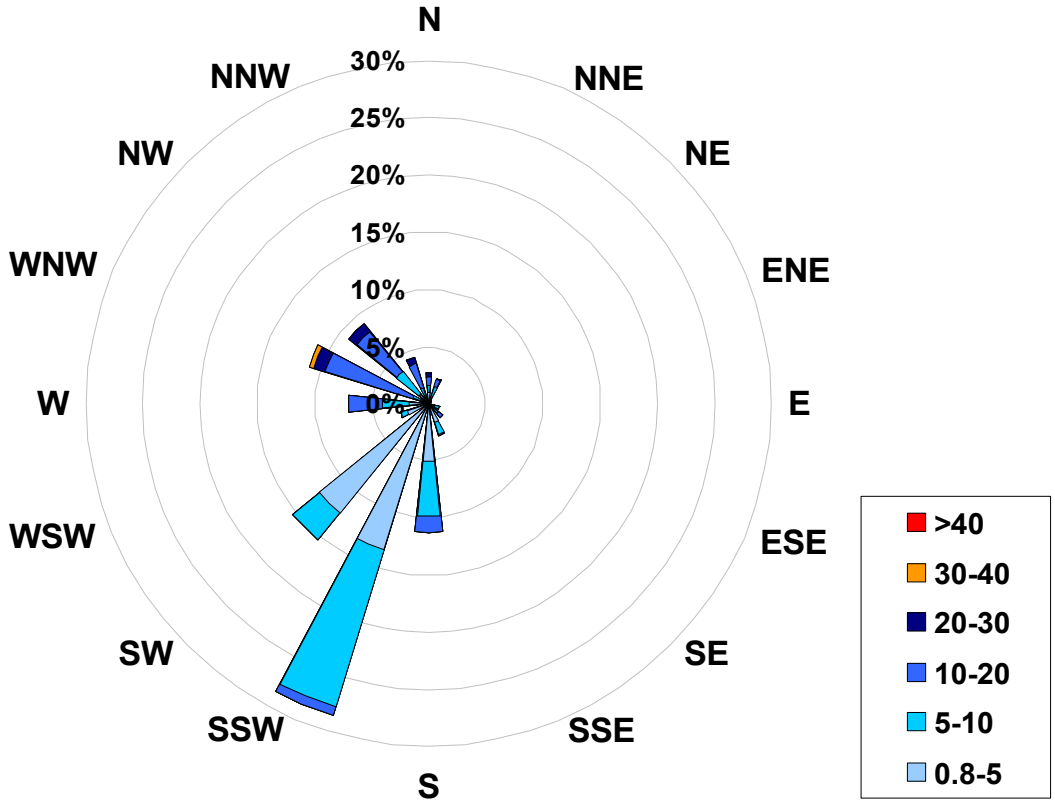
Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jan-07	14	7	4	5	12	27	7	6	7	9	6	13	9	4	5	6	7	12	11	14	12	7	9	14	26.5
2-Jan-07	11	8	10	8	7	7	5	5	6	5	6	29	35	22	6	5	16	19	13	4	5	6	5	6	35.2
3-Jan-07	19	13	11	7	6	8	7	6	5	6	6	8	8	9	8	7	19	21	12	13	6	5	3	2	21.2
4-Jan-07	5	4	3	11	4	2	2	3	4	2	5	13	7	10	8	9	8	7	9	8	6	8	7	8	12.9
5-Jan-07	9	7	10	7	5	6	5	5	5	9	60	9	6	7	8	10	5	9	5	11	5	6	26	49	59.6
6-Jan-07	24	27	9	7	8	7	7	7	6	6	8	7	6	8	7	7	6	6	7	7	6	5	7	8	27.3
7-Jan-07	2	9	12	25	38	37	33	10	11	9	7	8	29	12	40	24	7	11	12	9	6	5	6	6	40.2
8-Jan-07	5	6	6	6	7	8	14	13	19	13	21	5	7	5	5	5	6	14	21	10	7	6	21	9	21.3
9-Jan-07	11	18	34	27	7	8	8	9	8	11	10	10	11	11	14	15	19	11	13	35	26	13	12	10	34.9
10-Jan-07	14	24	14	16	24	10	12	7	9	6	4	4	4	4	3	5	8	7	9	19	44	43	12	10	44.4
11-Jan-07	16	24	25	13	6	6	8	6	20	9	5	9	8	9	6	11	47	31	14	11	19	57	38	7	57.1
12-Jan-07	21	12	7	6	9	29	25	10	7	6	3	4	4	11	3	59	19	44	67	10	10	8	9	40	66.9
13-Jan-07	10	19	6	7	9	9	8	8	4	6	6	7	8	3	7	7	13	17	23	16	50	32	36	27	49.6
14-Jan-07	11	4	4	20	18	5	14	8	10	9	9	15	8	7	30	32	36	26	8	16	33	4	9	6	35.8
15-Jan-07	15	8	10	8	7	8	6	8	13	8	4	4	5	4	6	5	8	5	4	4	50	22	14	12	49.9
16-Jan-07	50	9	27	31	15	15	8	42	42	23	7	10	12	11	7	7	9	4	4	6	5	5	4	5	50.4
17-Jan-07	6	5	5	6	6	7	9	6	6	7	6	14	56	23	13	8	14	29	21	24	8	4	3	5	56.4
18-Jan-07	11	3	4	6	5	8	20	10	8	4	6	5	14	10	8	4	11	9	8	5	16	8	26	28	28.0
19-Jan-07	23	37	30	30	34	14	35	16	10	12	12	12	7	8	8	11	11	54	35	6	12	4	19	15	53.9
20-Jan-07	4	4	3	30	4	4	8	4	37	23	51	38	28	55	17	9	7	6	10	8	6	8	10	15	55.2
21-Jan-07	12	18	28	15	7	9	6	18	11	16	20	6	6	41	8	9	9	66	32	22	9	13	9	17	66.1
22-Jan-07	4	8	6	8	6	6	5	6	7	16	6	5	12	12	28	8	7	6	5	6	6	4	9	6	28.3
23-Jan-07	12	8	25	50	18	15	5	4	5	4	14	15	11	15	10	16	53	10	23	15	40	45	46	13	52.5
24-Jan-07	8	33	53	39	10	19	28	10	7	7	5	4	4	6	5	4	9	4	5	7	9	5	5	6	52.5
25-Jan-07	13	5	5	24	6	5	35	35	9	10	8	9	9	5	6	6	7	6	6	6	6	7	5	7	35.2
26-Jan-07	6	6	6	6	7	8	6	9	5	6	6	7	7	6	7	6	9	10	33	25	14	14	20	10	33.2
27-Jan-07	19	44	33	46	25	48	10	30	10	6	4	8	18	9	10	34	24	18	35	32	12	8	12	17	48.2
28-Jan-07	9	8	5	6	39	37	45	16	30	18	19	70	67	10	7	16	55	34	42	49	23	15	29	20	69.6
29-Jan-07	13	34	48	49	52	51	45	7	9	8	7	9	8	8	21	11	7	22	38	17	13	41	28	29	51.6
30-Jan-07	14	36	19	10	15	9	6	7	5	8	7	5	5	10	5	5	4	3	6	14	10	12	7	19	36.0
31-Jan-07	19	9	18	32	45	11	23	10	9	8	5	6	4	4	4	5	6	5	4	5	5	6	4	8	45.3
Hourly Max	50	44	53	50	52	51	45	42	42	23	60	70	67	55	40	59	55	66	67	49	50	57	46	49	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	308
5	to	10	249
10	to	20	161
20	to	30	23
30	to	40	3
	>	40	0
Total Non-Zero Values			744

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for January 2007

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
		PASZA			
Duplicates					
29a	Smoky Heights	**N/A**	**37.8**	**3.0**	
29b	Smoky Heights	**0.7**	**37.6**	**3.2**	
30a	Fitzsimmons	**0.3**	**35.8**	**3.3**	
30b	Fitzsimmons	**0.3**	**33.3**	**3.1**	
33a	Wapiti	**0.2**	**34.0**	**2.4**	
33b	Wapiti	**0.2**	**31.8**	**2.5**	
49a	Grande Prairie HP	**0.3**	**24.0**	**15.1**	
49b	Grande Prairie HP	**0.4**	**22.8**	**15.2**	
1	Silver Valley	**0.5**	**41.0**	**1.5**	08-27-081-11 W6M
2	Bay Tree	**0.3**	**38.7**	**0.8**	13-16-078-13 W6M
3	Forth Creek	**0.5**	**42.4**	**1.0**	04-13-082-07 W6M
4	Gordondale	**0.4**	**37.6**	**1.6**	04-34-078-10 W6M
5	Boone Creek	**0.4**	**35.7**	**2.2**	01-23-076-11 W6M
7	Steeprock Creek	**0.1**	**37.8**	**0.8**	09-35-072-13 W6M
9	Spirit River	**0.5**	**35.0**	**1.7**	08-12-079-07 W6M
10	Woking	**0.7**	**39.3**	**1.9**	01-13-076-07 W6M
11	Webber Creek	**0.3**	**33.8**	**2.5**	09-36-074-09 W6M
12	Hythe	**0.3**	**33.9**	**2.3**	14-36-072-11 W6M
14	Sylvester	**0.1**	**33.5**	**1.1**	08-06-069-12 W6M
16	Beaverlodge	**0.2**	**35.2**	**2.9**	15-36-071-10 W6M
17	Poplar	**0.3**	**33.6**	**2.6**	13-06-073-08 W6M
18	Saddle Hills	**0.4**	**39.7**	**1.9**	04-25-074-07 W6M
19	Wanham	**0.6**	**41.0**	**1.4**	16-22-077-03 W6M
20	Shaftesbury	**0.3**	**32.8**	**1.4**	04-03-082-23 W5M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
21	Eaglesham	**0.3**	**36.6**	**1.3**	16-21-079-25 W5M
23	Bear Lake	**0.3**	**35.9**	**3.3**	15-31-072-06 W6M
24	Wembley	**0.5**	**38.1**	**3.6**	12-31-070-08 W6M
25	Pinto Creek	**0.1**	**33.3**	**1.5**	04-24-069-11 W6M
26	Flyingshot	**0.2**	**31.2**	**4.1**	15-36-070-07 W6M
27	Grande Prairie I	**0.3**	**25.7**	**11.8**	08-15-071-06 W6M
28	Clairmont Lake	**0.4**	**38.5**	**N/A**	09-06-073-04 W6M
29	Smoky Heights	**0.7**	**37.7**	**3.1**	04-06-075-02 W6M
30	Fitzsimmons	**0.3**	**34.6**	**3.2**	15-36-072-03 W6M
32	Gold Creek	**0.2**	**21.9**	**4.7**	06-33-067-05 W6M
33	Wapiti	**0.2**	**32.9**	**2.5**	02-25-071-03 W6M
34	Puskwaskau	**0.3**	**37.4**	**0.9**	15-35-074-25 W5M
35	Jean Cote	**0.6**	**44.8**	**2.0**	12-35-079-21 W5M
36	Guy	**0.3**	**46.6**	**1.6**	03-04-076-22 W5M
37	Crooked Creek	**0.2**	**33.8**	**3.1**	16-01-071-26 W5M
38	Karr Creek	**0.1**	**28.4**	**0.9**	10-16-065-02 W6M
39	Clouston Creek	**N/A**	**38.0**	**2.3**	12-01-073-22 W5M
40	McLennan	**0.7**	**45.3**	**1.6**	03-29-077-19 W5M
41	Valleyview	**0.3**	**43.6**	**2.8**	09-30-069-22 W5M
42	Sunset House	**0.4**	**37.9**	**1.3**	05-32-070-19 W5M
43	High Prairie	**0.3**	**42.0**	**2.8**	16-13-074-17 W5M
44	Peavine	**0.2**	**37.1**	**1.3**	03-05-079-15 W5M
45	Gift Lake	**0.2**	**38.2**	**2.3**	10-07-079-12 W5M
46	Little Smoky	**0.3**	**28.2**	**6.4**	12-01-065-21 W5M
47	Kinuso	**0.2**	**35.8**	**2.2**	12-10-073-10 W5M
48	Deer Mountain	**0.2**	**47.0**	**1.1**	15-22-068-09 W5M
49	Grande Prairie HP	**0.4**	**23.4**	**15.1**	17-26-071-06 W6M

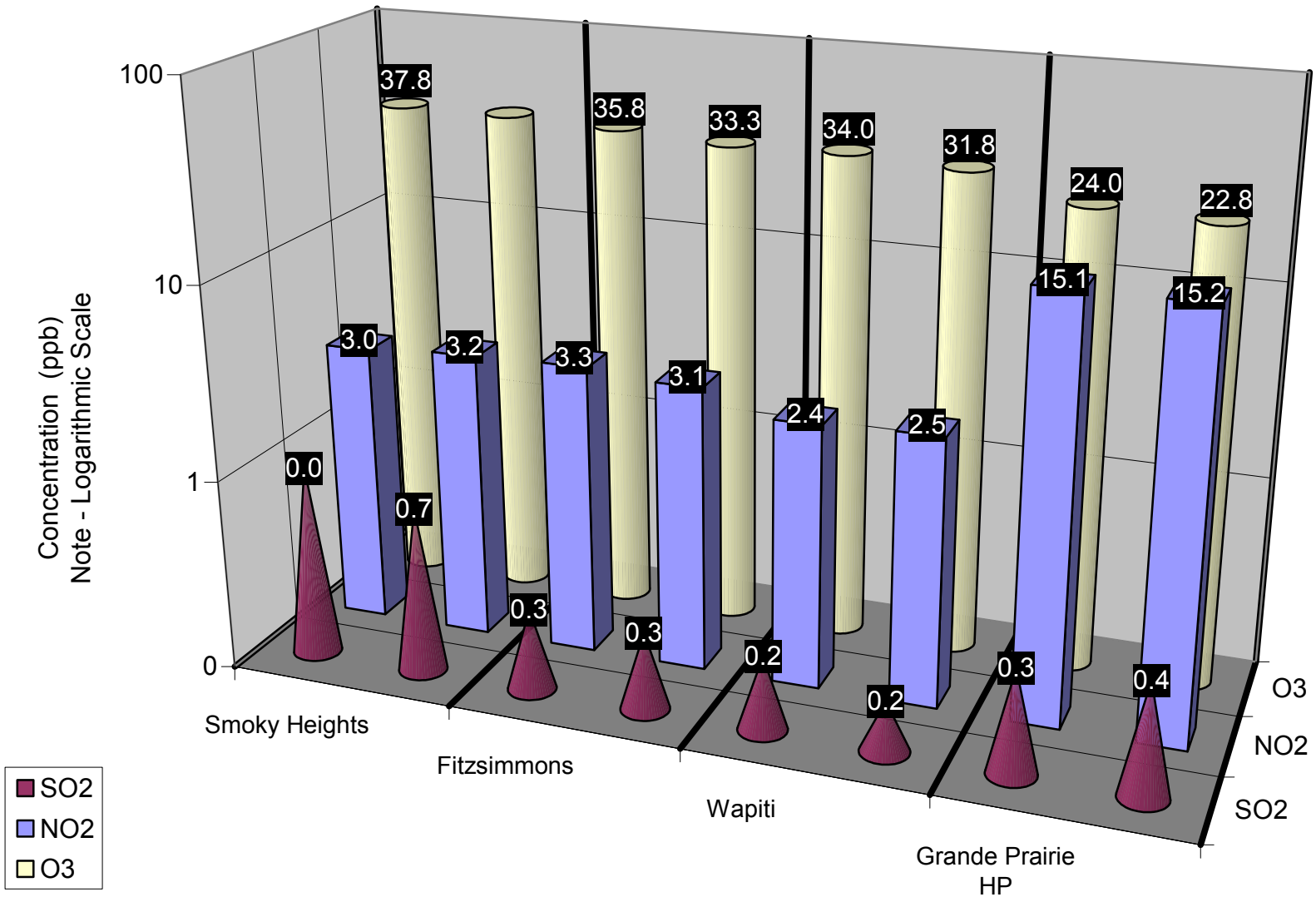


Figure 60. Duplicate Summary Chart

Table 2. Passive Summary Results for January 2007

Stats	Sulphur Dioxide SO_2	Ozone O_3	Nitrogen Dioxide NO_2
	ppb	ppb	ppb
	Passive Summary for January 2007 (PASZA Zone)		
Mean	**0.3**	**36.2**	**2.7**
Standard Deviation	**0.2**	**5.5**	**2.7**
Minimum	**0.1**	**21.9**	**0.8**
	Sylvester (#14)	**Gold Creek (#32)**	**Bay Tree (#2)**
Maximum	**0.7**	**46.6**	**15.0**
	Smoky Heights (#29b)	**Deer Mountain (#48)**	**Grande Prairie HP (#49)**

Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)

	SO_2	O_3	NO_2
AENV Beaverlodge station	**0.4**	**31.8**	**5.0**
PASZA Beaverlodge passive	**0.2**	**35.2**	**2.9**

Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)

	SO_2	O_3	NO_2
PASZA Henry Pirker station	**0.7**	**15.3**	**24.0**
PASZA Grande Prairie passive	**0.4**	**23.4**	**15.0**

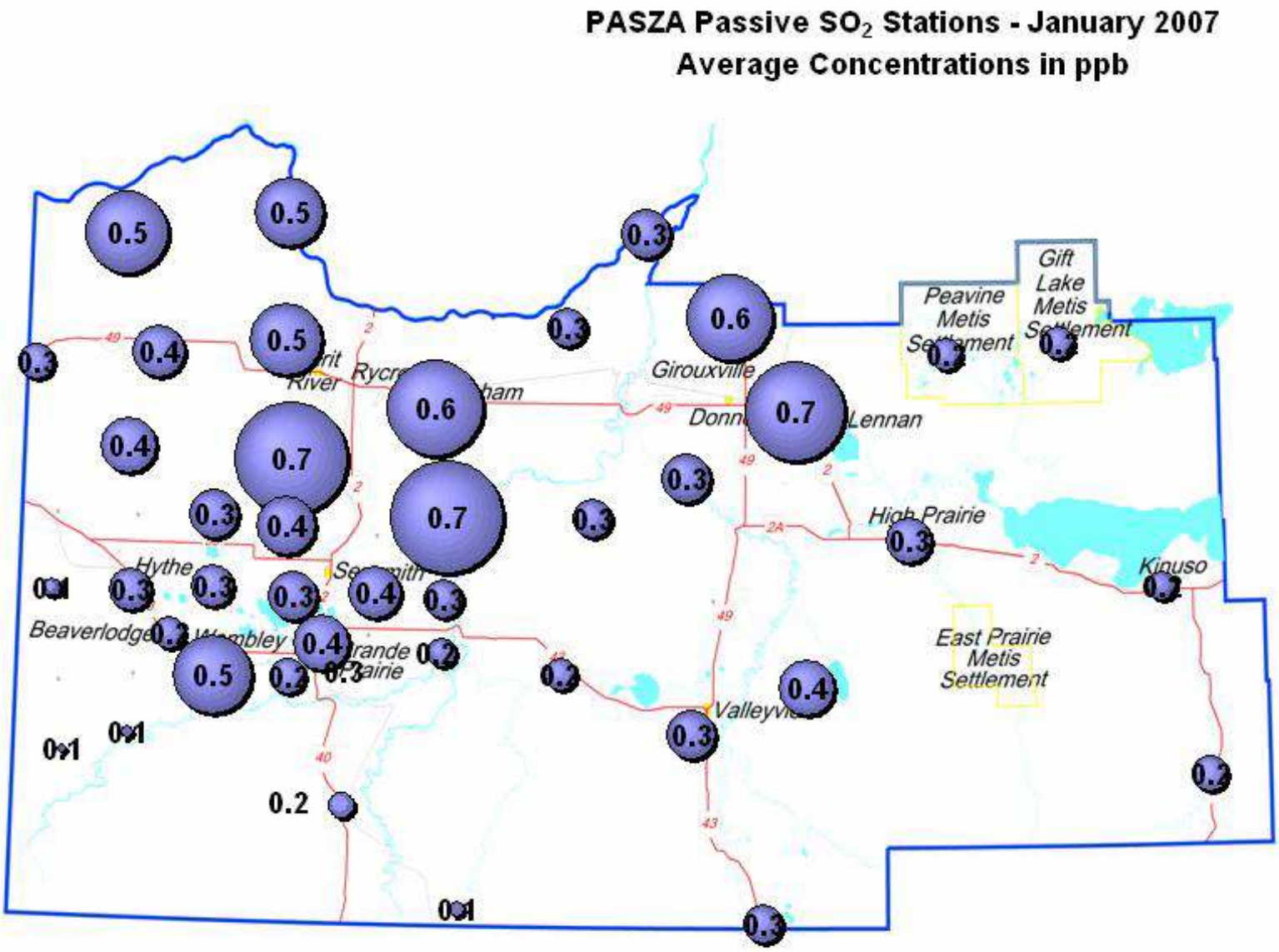


Figure 61. SO_2 Bubble Chart

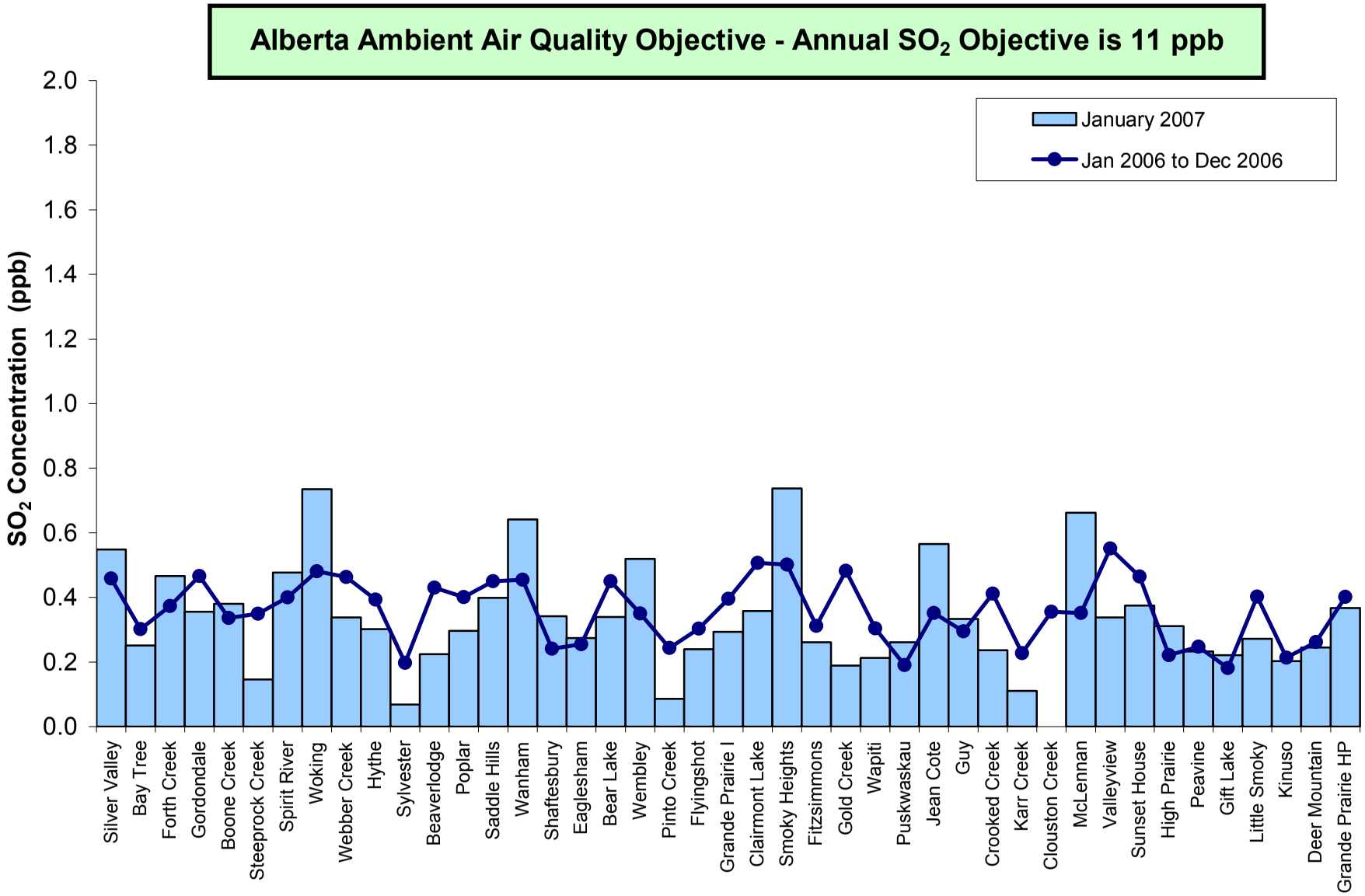


Figure 62. SO_2 Summary Chart

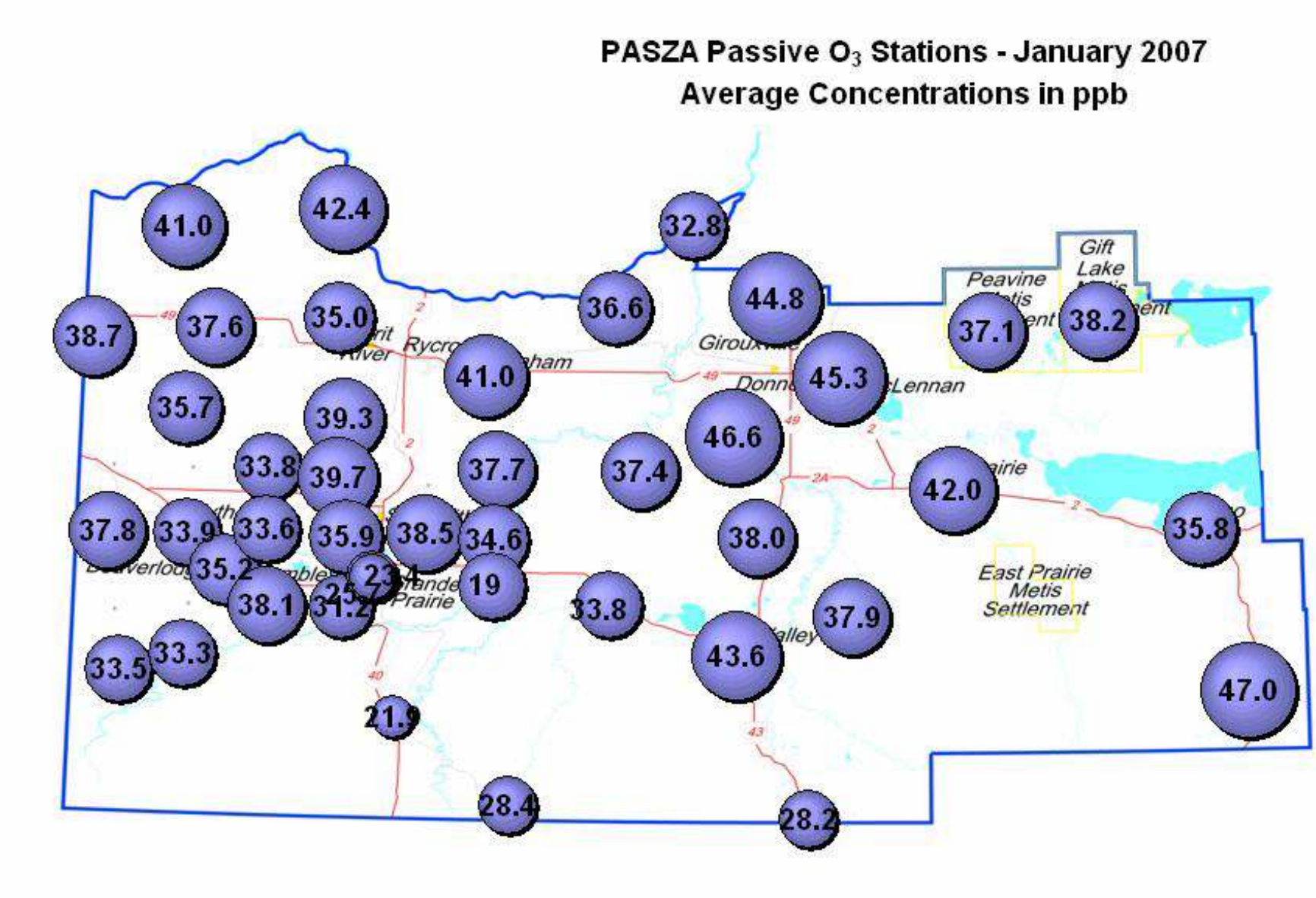


Figure 63. O_3 Bubble Chart

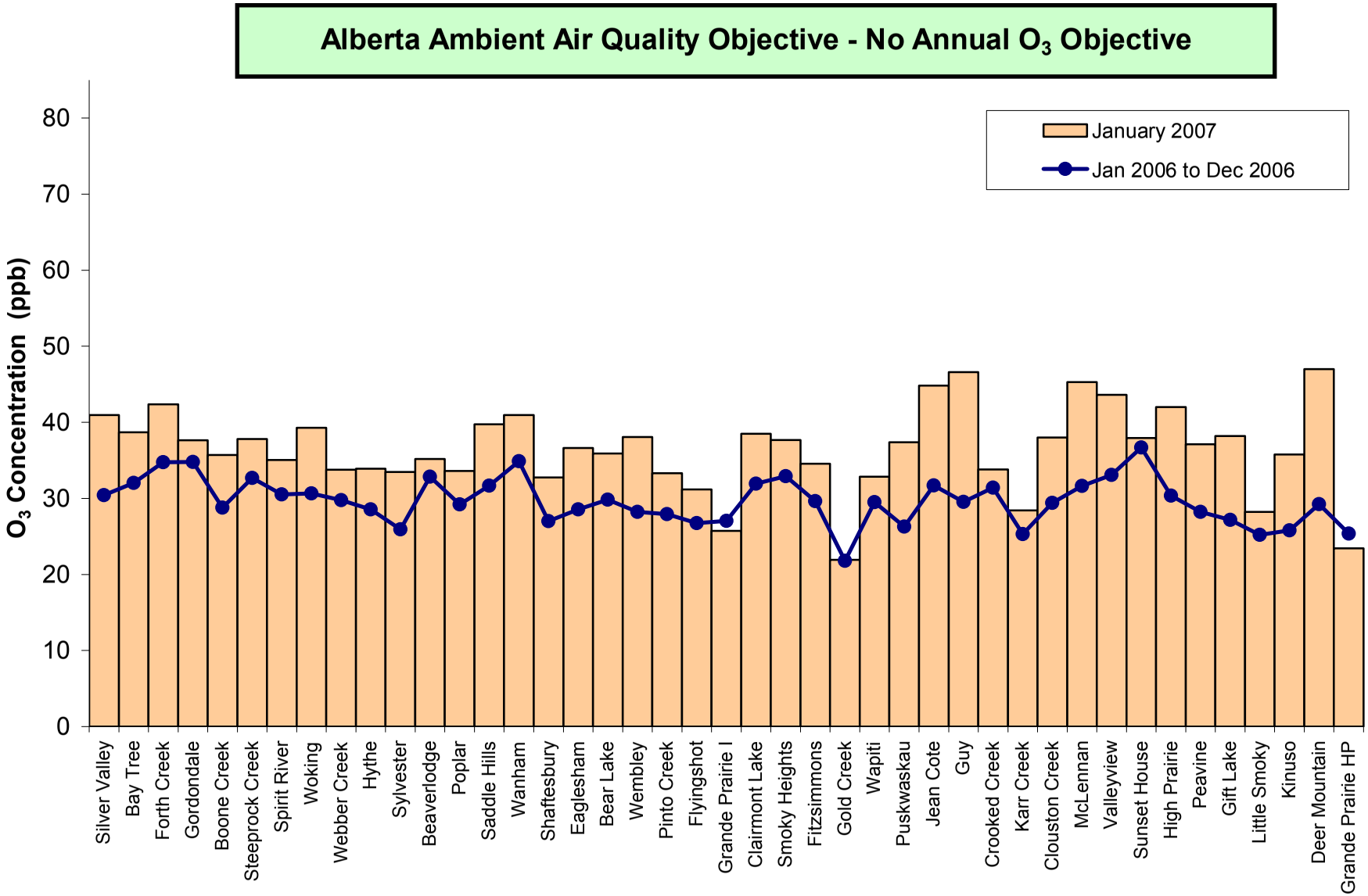


Figure 64. O_3 Summary Chart

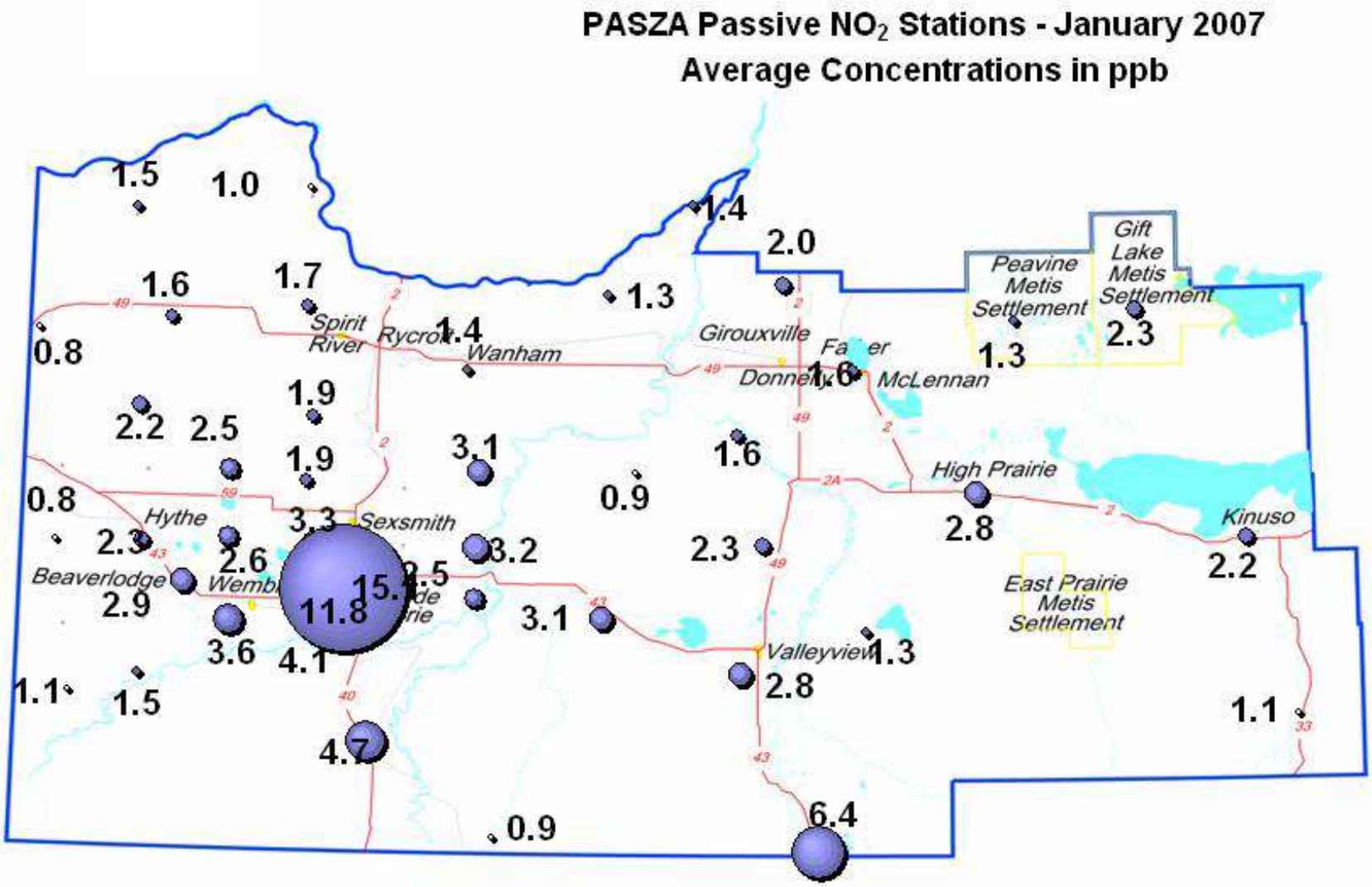


Figure 65. NO_2 Bubble Chart

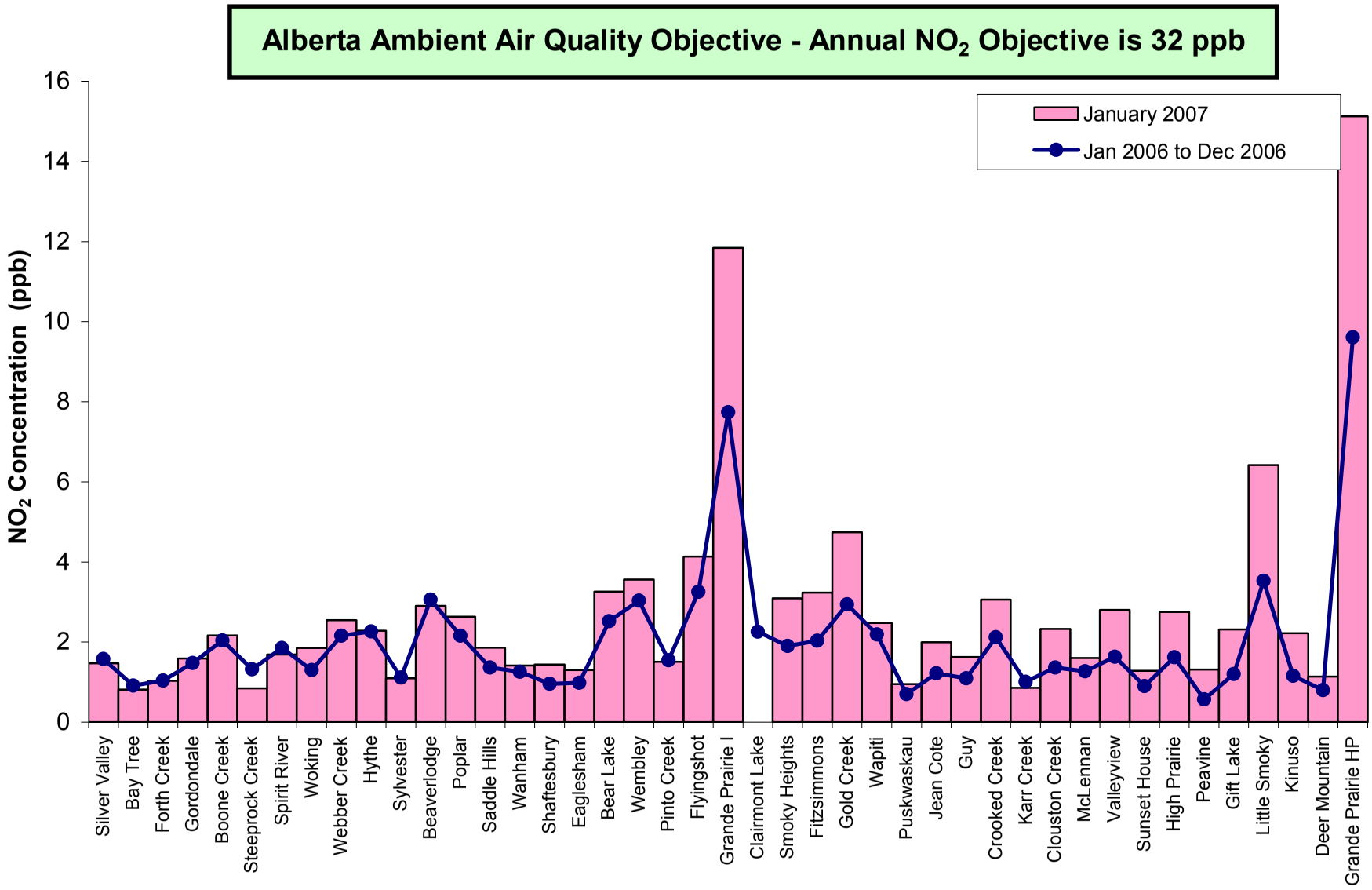


Figure 66. NO_2 Summary Chart

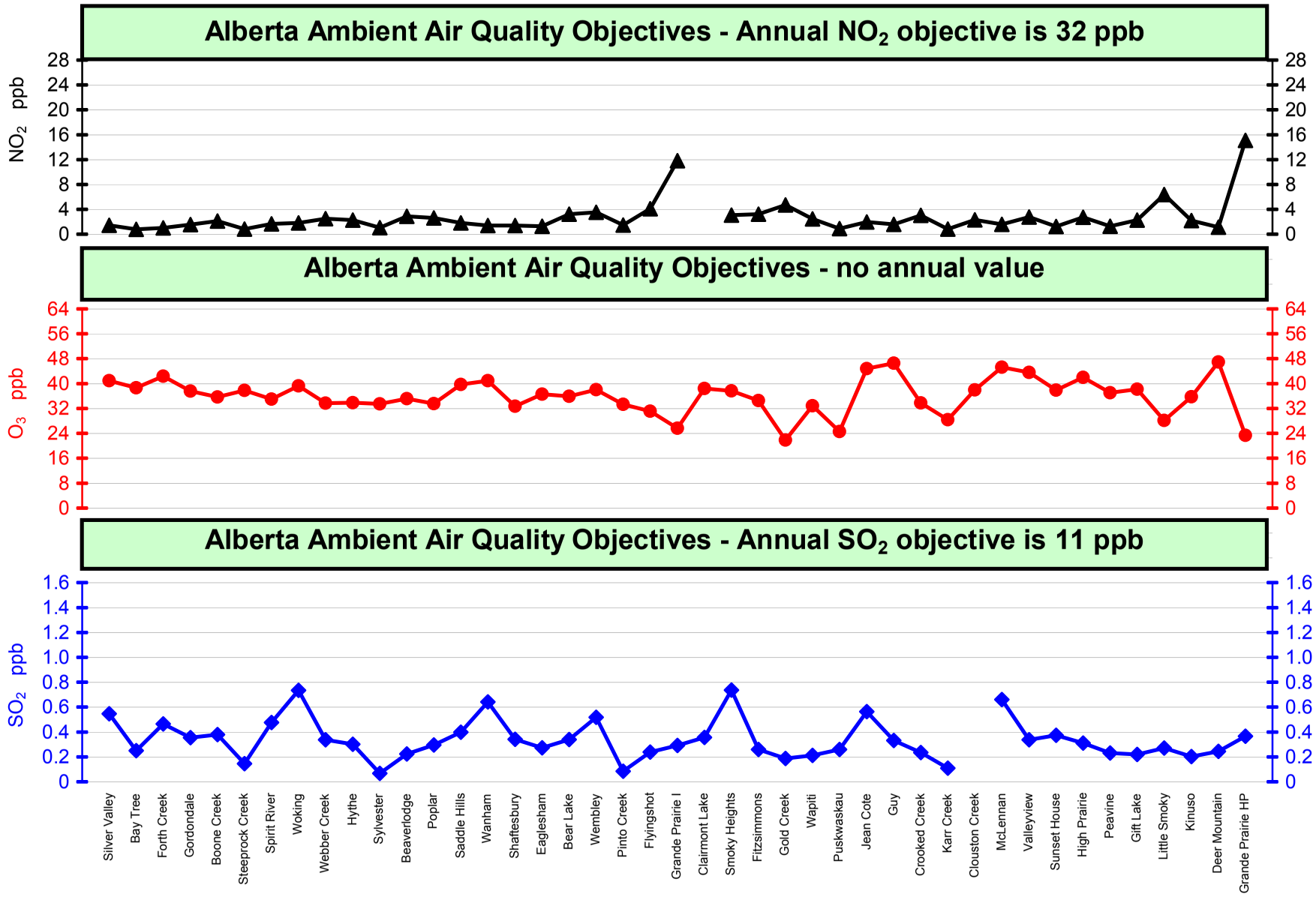


Figure 67. Overview Summary

January 2007 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO_2, NO, NO_2, NO_x, O_3, CO, THC, TRS

PASZA – Evergreen Park Station with the following calibrations:

SO_2, TRS

PASZA – Smoky Heights Station with the following calibrations:

SO_2, TRS, $PM_{2.5}$

PASZA – Beaverlodge Station with the following calibrations:

SO_2, NO, NO_2, NO_x, O_3, $PM_{2.5}$

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

SO_2, TRS, O_3

PASZA – Valleyview Station with the following calibrations:

SO_2, H_2S

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 18, 2007
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine / Install	Removal	Other:
Start Time (MST)	10:55:00 AM	End Time (MST)	1:47:00 PM
Barometric Pressure	27.1 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	0.920525	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	1.009627	Calculated slope	0.997279
Calculated intercept	0.853674	Calculated intercept	-0.530546
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	180		172	
SO2 span pot	001		125	
UV Lamp voltage	950	V	953	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	2301.3	0.0	-0.3	N/A
2500	2301.3	322.8	323.5	0.9978
5025	4625.6	160.6	162.8	0.9864
9000	8284.7	89.7	90.7	0.9888
zero	2301.3	0.0	-1.3	As Found Zero
2500	2301.3	322.8	319.0	As Found Span
			Average Correction Factor	0.9910

Calculated value of As Found Response: 324.222 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	0.5	ppm	-0.9	ppm
Auto span	270.4	ppm	277.8	ppm

Notes: Adjusted zero and span.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

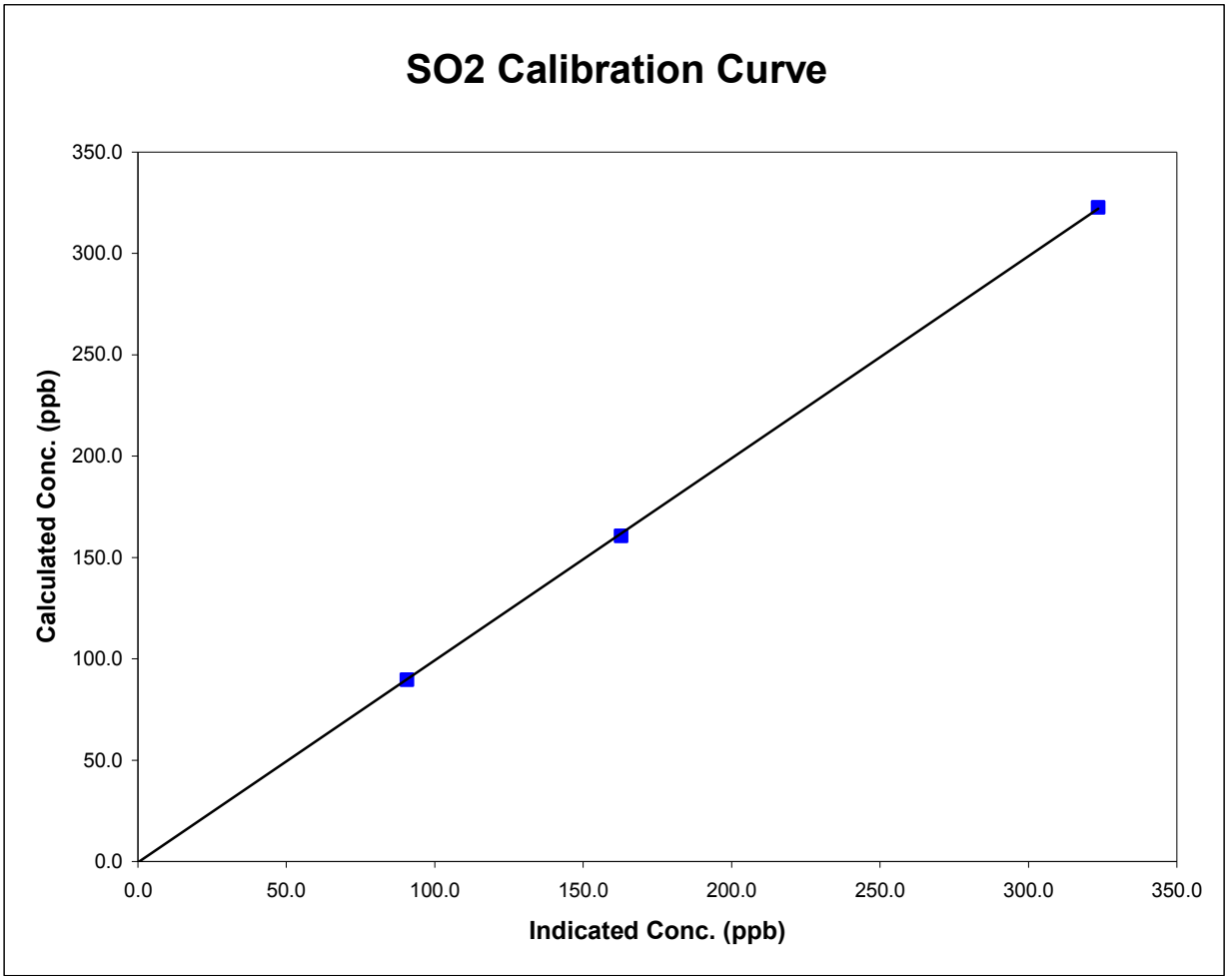
Air Monitoring Network **PASZA**

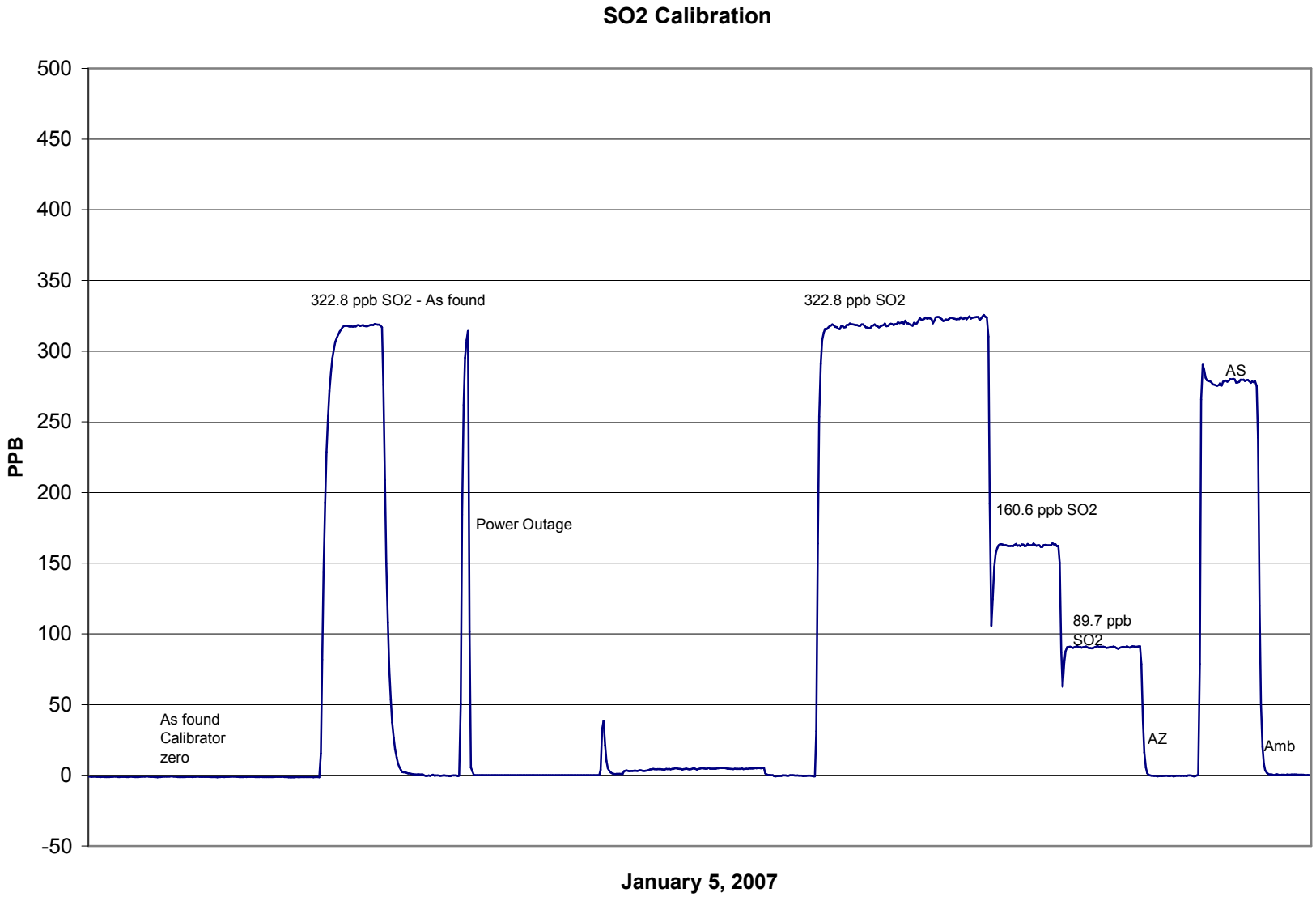
Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 18, 2007
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:55	End Time (MST)	13:47
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	-0.3	N/A		
322.8	323.5	0.9978	Correlation Coefficient	0.999952
160.6	162.8	0.9864		
89.7	90.7	0.9888	Slope	0.997279
			Intercept	-0.530546




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
322.8 ppb SO2 - As found
Power Outage
322.8 ppb SO2
160.6 ppb SO2
89.7 ppb SO2
AS
AZ
Amb
As found Calibrator zero
January 5, 2007

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	January 8, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park

Reason: Routine Installation Removal Other:

Start Time (MST)	11:28		End Time (MST)		
Barometric Pressure	0.909	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6103		Serial Number	2844	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	22-Nov-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.997744	1.005623	1.002251
	Data Offset	1.448088	-0.576989	-0.547691
After	Data Slope	1.000076	0.995650	0.990247
	Data Offset	0.129407	-1.983509	-2.123319
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	9.4	ppb	8.9	mV
NOx background	10.9	ppb	8.9	mV
NO coefficient	0.787		0.818	
NOx coefficient	0.983		0.979	
Chamber Temp	50.0	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	180.6	mm Hg	185.6	mm Hg

Notes: Adjusted zero and span.

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date: January 8, 2007 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A
1	4992	39.93	400.7	399.1	1.6	403.3	403.9	-0.6	0.9937	0.9883
2	4992	19.91	200.6	199.8	0.8	205.0	205.6	-0.7	0.9788	0.9719
3	4992	10.00	101.0	100.6	0.4	105.1	105.5	-0.4	0.9607	0.9529
AFZ	4992	0.00	0.0	0.0	0.0	-2.4	-1.0	-1.5	0.0000	0.0000
AFS	4992	39.93	400.7	399.1	1.6	385.0	389.1	-4.1	1.0409	1.0258
							Average Correction Factor		0.9777	0.9710

As Found Concentrations: NO_X= 386.9 NO= 389.6 As Found Percent Change NO_X= -3.5% NO= -2.4%

GPT Calibration Data

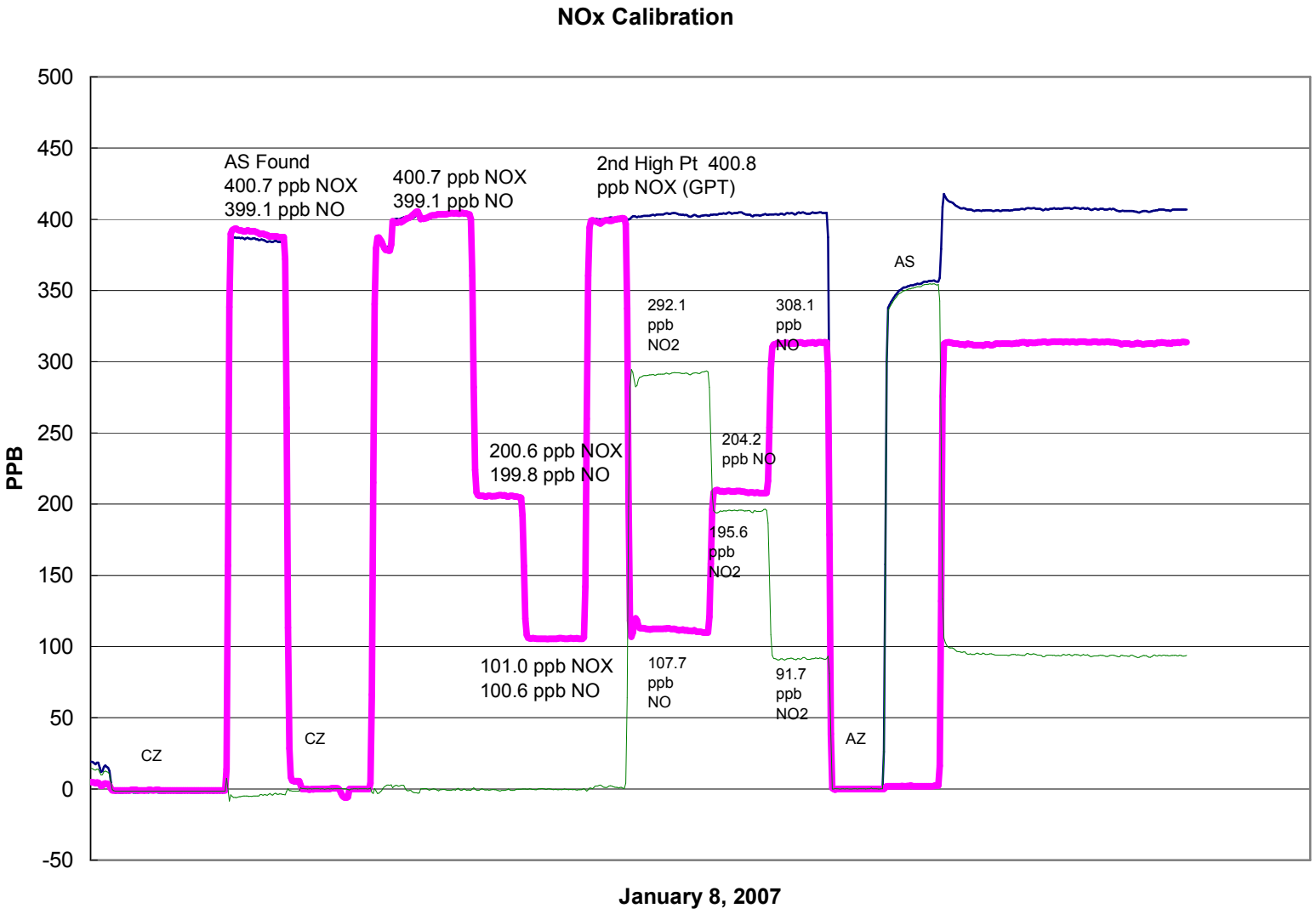
Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	399.8	393.4	6.4	400.8	399.4	1.4	0.9976	0.9849	N/A	N/A
350	399.8	107.7	292.1	402.7	110.9	292.1	0.9928	0.9711	1.0001	100.0%
200	399.8	204.2	195.6	403.4	208.3	195.3	0.9910	0.9801	1.0014	99.9%
100	399.8	308.1	91.7	404.5	313.3	91.5	0.9884	0.9835	1.0024	99.8%
					Average Correction Factor		0.9907	0.9782	1.0013	99.9%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.0	0.9	1.0	ppb	1.0	1.1	1.0	ppb
Auto span	375.0	371.8	2.7	ppb	351.7	353.3	-0.1	ppb

Calibration Performed By: Dawn Ewan


NOx Calibration
PPB
500
450
400
350
300
250
200
150
100
50
0
-50
AS Found
400.7 ppb NOX
399.1 ppb NO
400.7 ppb NOX
399.1 ppb NO
2nd High Pt 400.8
ppb NOX (GPT)
AS
292.1
ppb
NO2
308.1
ppb
NO
200.6 ppb NOX
199.8 ppb NO
204.2
ppb NO
195.6
ppb
NO2
101.0 ppb NOX
100.6 ppb NO
107.7
ppb
NO
91.7
ppb
NO2
CZ
CZ
AZ
January 8, 2007

Calibration Summary

Parameter **NO_2**

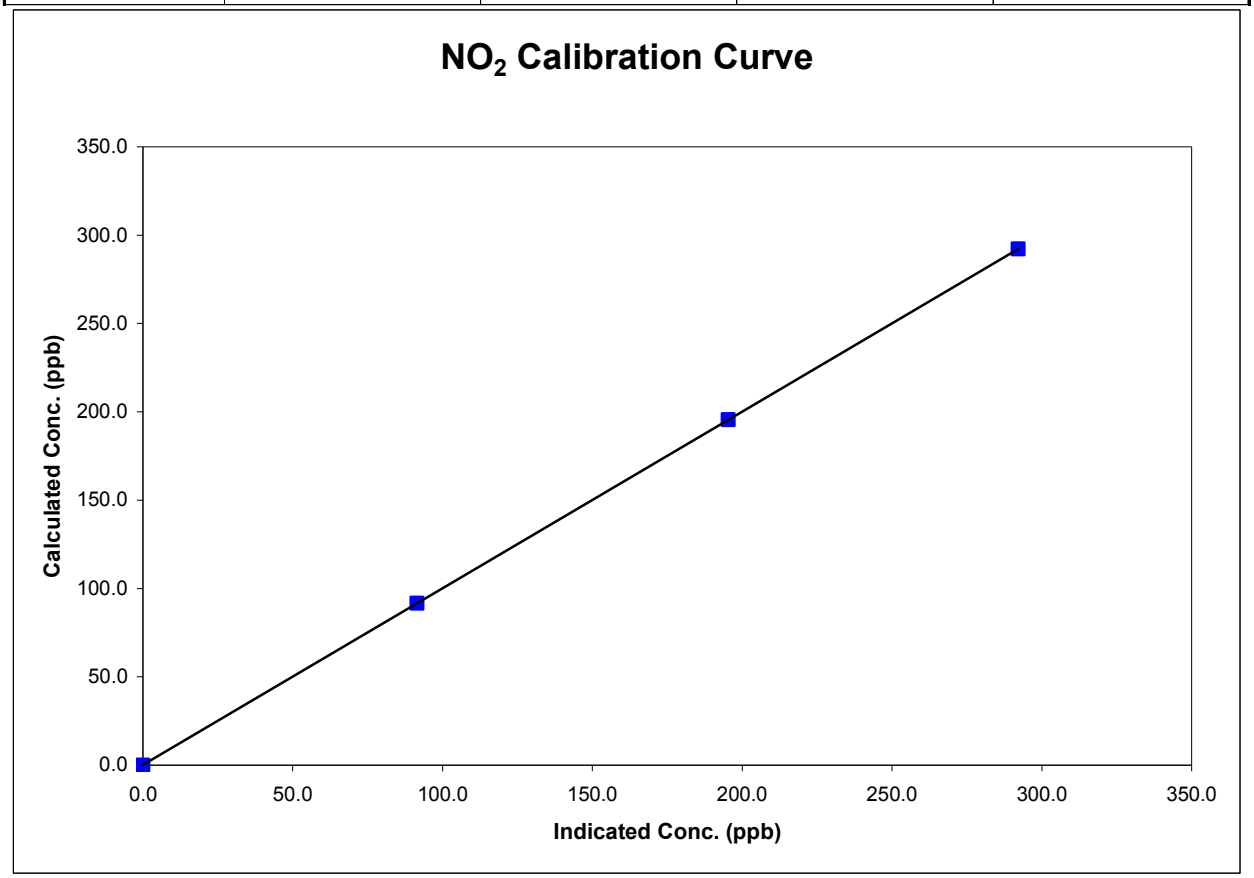
Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 8, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:28	End Time (MST)	0:00
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
292.1	292.1	1.0001	Correlation Coefficient	0.999999
195.6	195.3	1.0014		
91.7	91.5	1.0024	Slope	1.000076
			Intercept	0.129407



Calibration Summary

Parameter **NO_x**

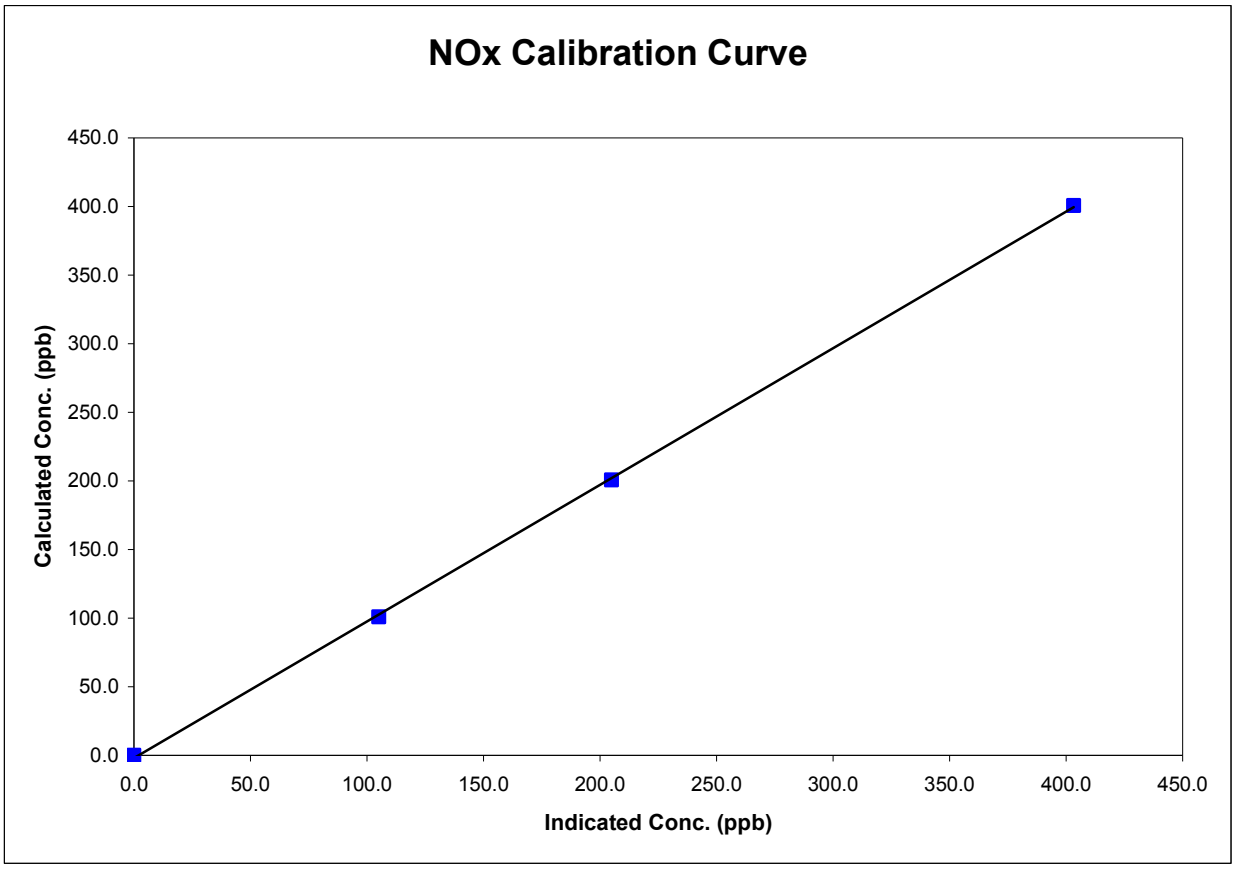
Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 8, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:28	End Time (MST)	0:00
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
400.7	403.3	0.9937	Correlation Coefficient	0.999882
200.6	205.0	0.9788		
101.0	105.1	0.9607	Slope	0.995650
			Intercept	-1.983509



Calibration Summary

Parameter **NO**

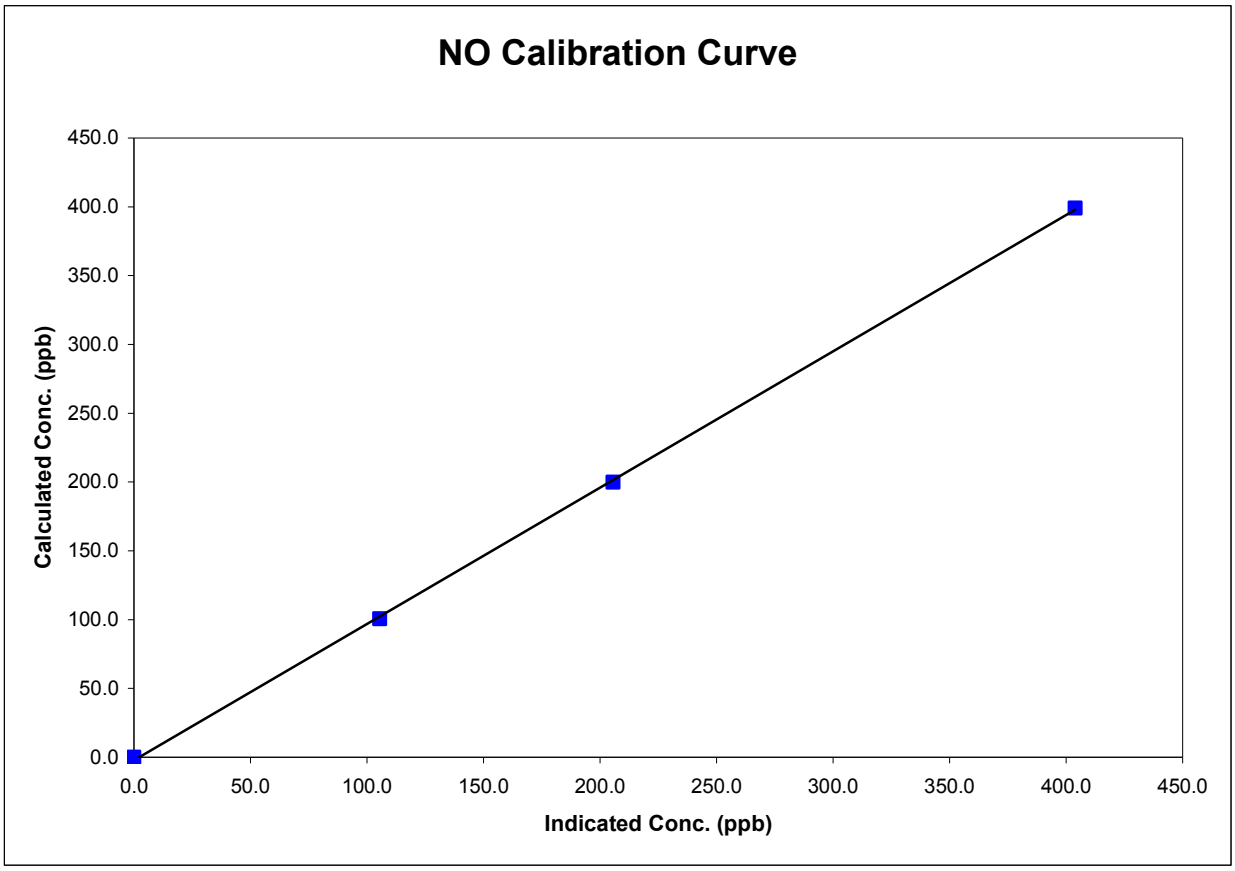
Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 8, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:28	End Time (MST)	0:00
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
399.1	403.9	0.9883	Correlation Coefficient	0.999857
199.8	205.6	0.9719		
100.6	105.5	0.9529	Slope	0.990247
			Intercept	-2.123319



Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter: O3

Air Monitoring Network: PASZA

Station Information

Calibration Date	January 16, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason: Routine	Install	Removal	Other:
Start Time (MST)	11:20	End Time (MST)	14:27
Barometric Pressure	0.909 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.996809	Calculated slope	1.003487
Calculated intercept	1.393035	Calculated intercept	0.428516
Analyzer make	API Model 400	Analyzer serial #	383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.7	ppb	-0.6	ppb
slope	1.084		1.052	
Lamp measure	3646	mV	3594	mV
Lamp Reference	3648	mV	3597	mV
Pressure	27.6	inches Hg	27.5	inches Hg
Sample Flow	671	ccm	677	ccm
ANA Lamp temp	52	Deg C	52	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	0.5	N/A
4992	0.00	292.1	291.9	1.0009
4992	0.00	195.6	193.0	1.0135
4992	0.00	91.7	90.3	1.0154
4992	0.00	0.0	0.5	As found zero
4992	0.00	292.1	299.9	As found span
			Average Correction Factor	1.0099

Calculated value of As Found Response: 299.8 ppm Percent Change of As Found: 2.6%

	before calibration		after calibration	
Auto zero	1.7	ppb	1.0	ppb
Auto span	220.6	ppb	256.1	ppb

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

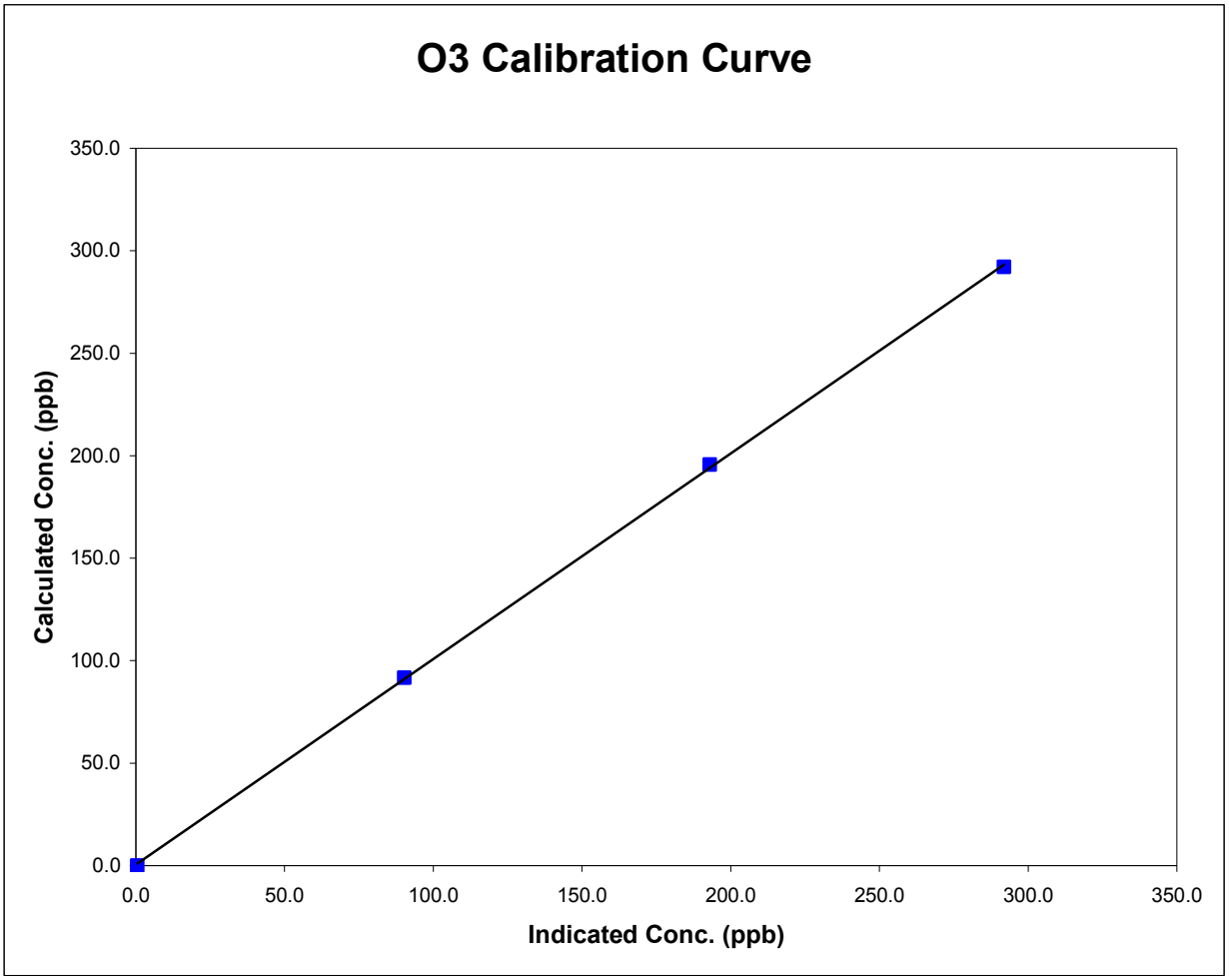
FOCUS AIR QUALITY MONITORING

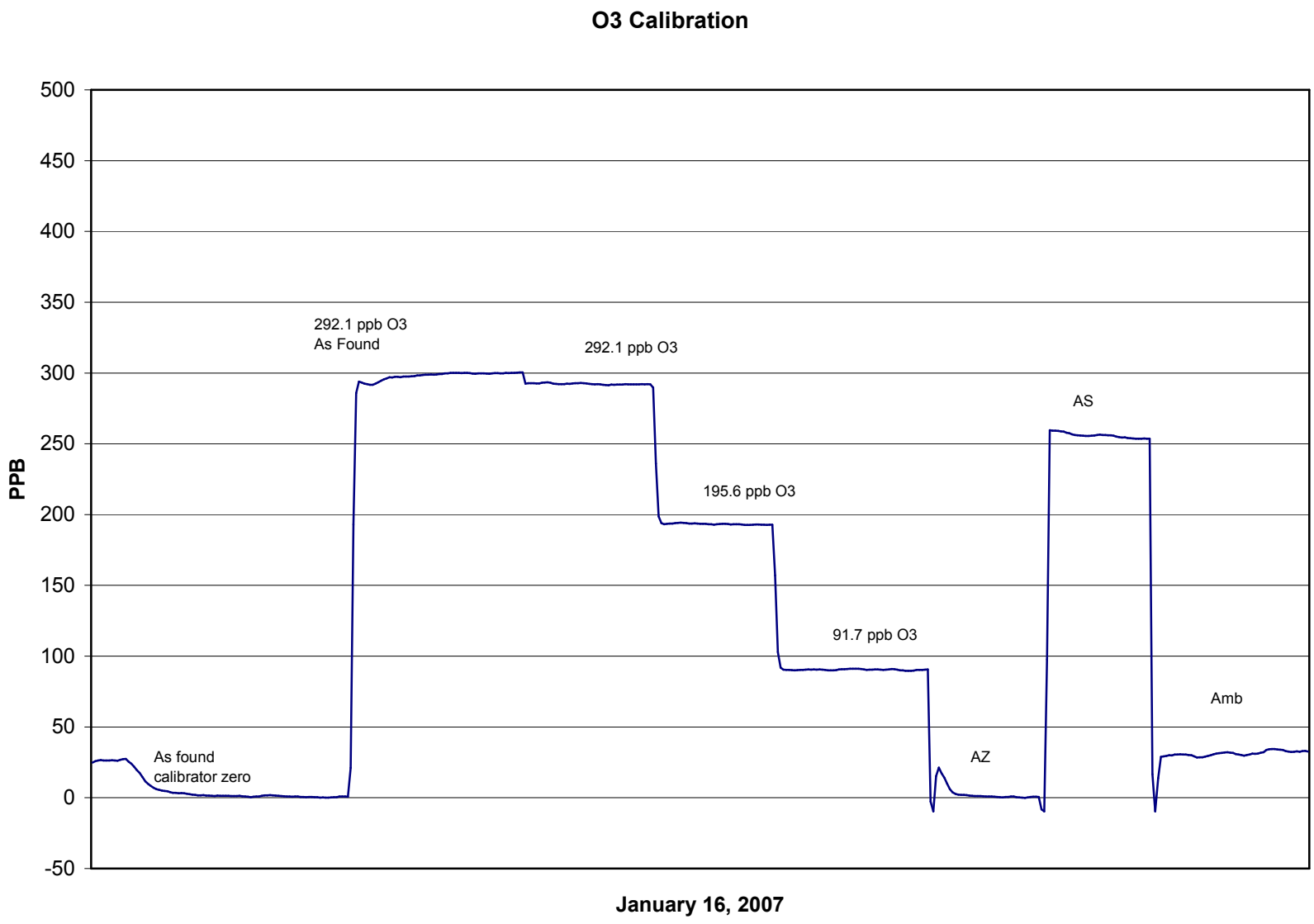
Station Information

Calibration Date	January 16, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	14:27
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	0.5	NA		
292.1	291.9	1.0009	Correlation Coefficient	0.999896
195.6	193.0	1.0135		
91.7	90.3	1.0154	Slope	1.003487
			Intercept	0.428516




O3 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
292.1 ppb O3
As Found
292.1 ppb O3
195.6 ppb O3
91.7 ppb O3
AS
Amb
AZ
As found
calibrator zero
January 16, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter: CO

Air Monitoring Network: PASZA

Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason: Routine	Install	Removal	Other:

Start Time (MST)	13:24	End Time (MST)	16:32
Barometric Pressure	0.905 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 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
	Before		After
Calculated slope	1.009743	Calculated slope	1.013926
Calculated intercept	-0.179849	Calculated intercept	-0.246464

Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.047		1.047	
CO zero setting	8.3		8.302	
Sample pressure	675.4	mm Hg	700	mm Hg
Sample Flow	1.077	LPM	1.1	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	0.02	N/A
4994	39.94	23.80	23.63	1.0071
4994	19.91	11.91	12.01	0.9919
4994	9.50	5.70	6.15	0.9261
4994	0.00	0.00	0.27	As Found Zero
4994	39.94	23.80	24.13	As Found Span
			Average Correction Factor	0.9750

Calculated value of As Found Response: 23.915 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	-0.20	ppm	-0.21	ppm
Auto span	20.73	ppm	20.81	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **CO**

Air Monitoring Network **PASZA**

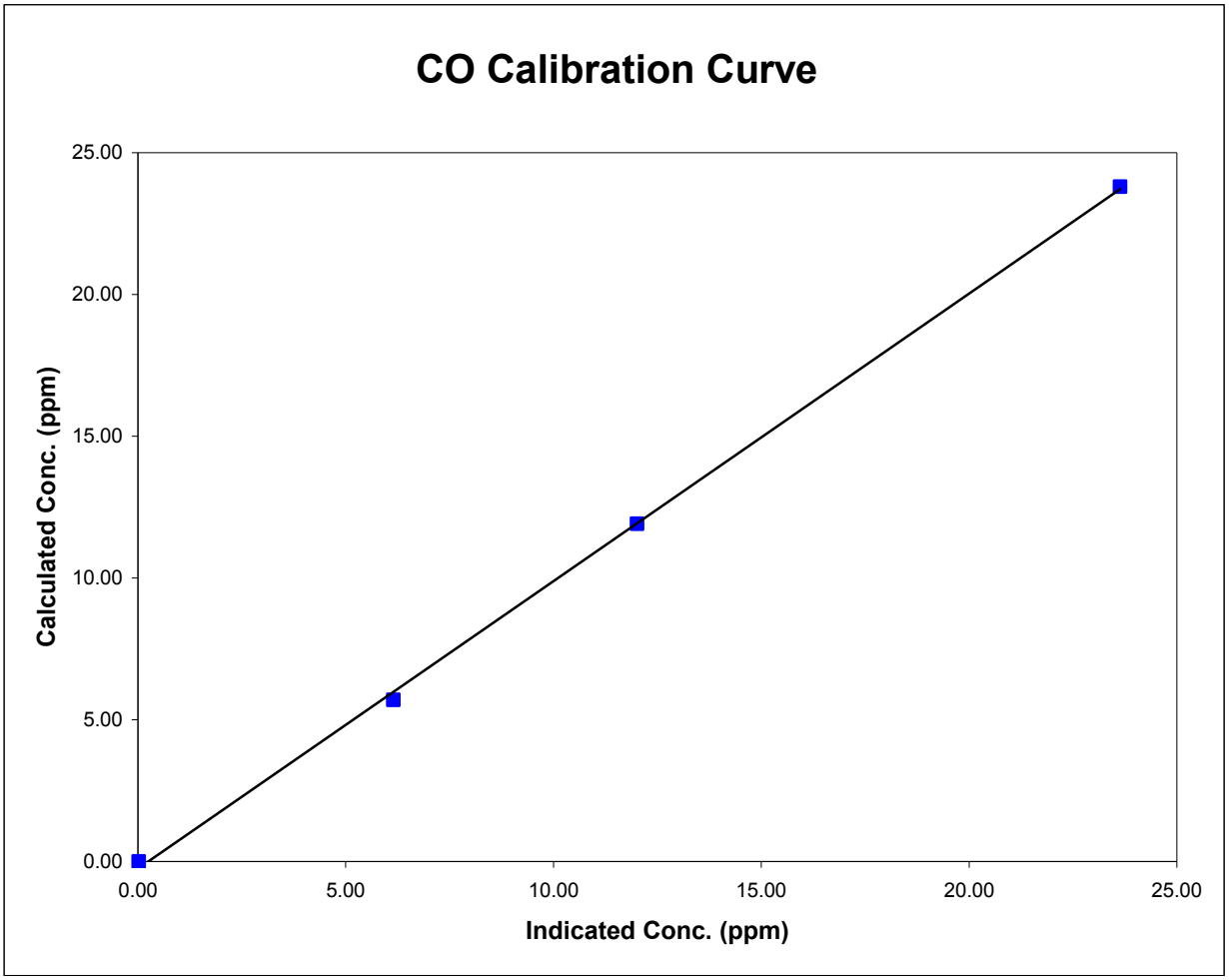
FOCUS AIR QUALITY MONITORING

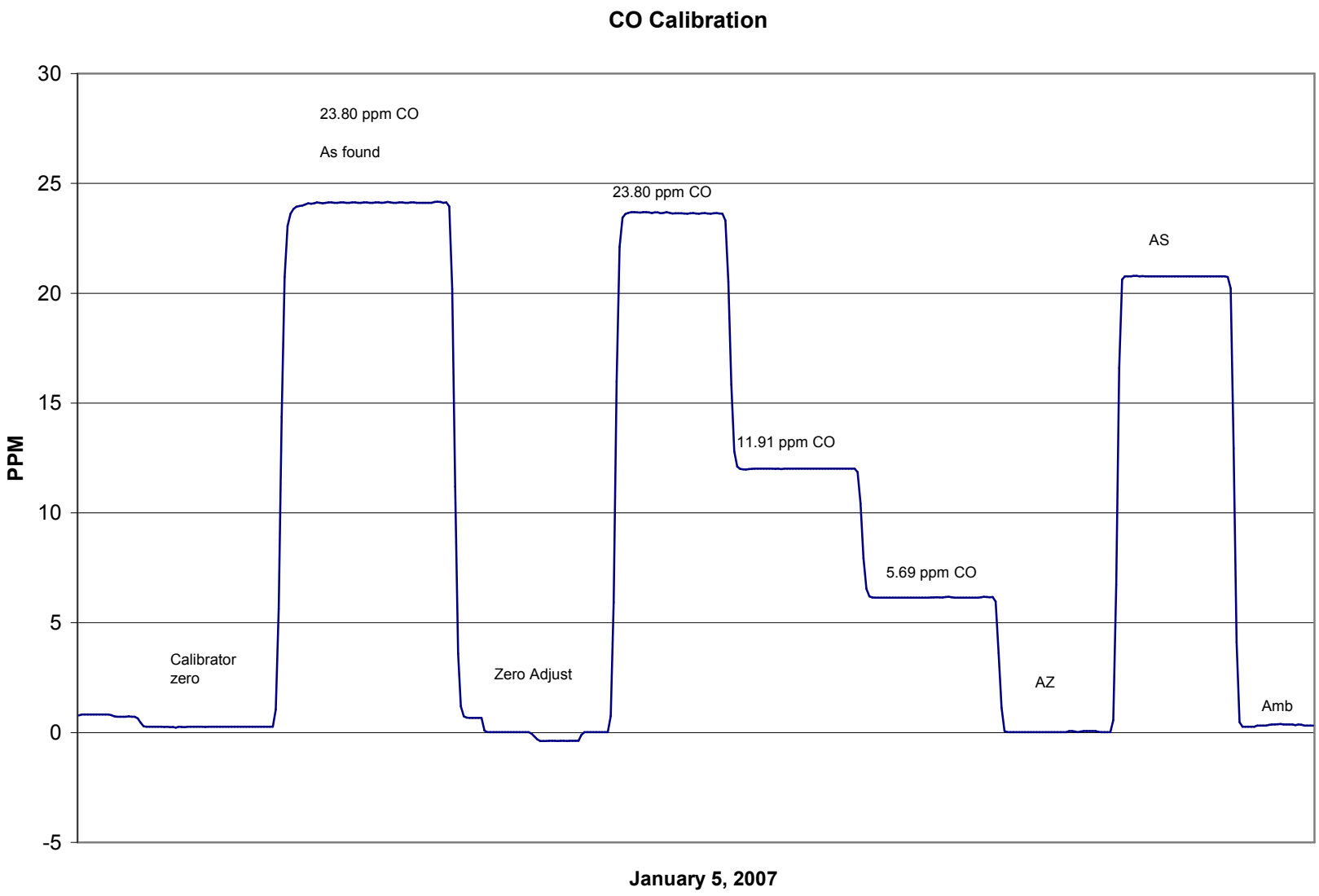
Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	13:24	End Time (MST)	16:32
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	0.020	N/A		
23.802	23.634	1.0071	Correlation Coefficient	0.999536
11.913	12.010	0.9919		
5.696	6.150	0.9261	Slope	1.013926
			Intercept	-0.246464




CO Calibration
30
25
20
15
10
5
0
-5
PPM
23.80 ppm CO
As found
23.80 ppm CO
AS
11.91 ppm CO
5.69 ppm CO
Calibrator
zero
Zero Adjust
AZ
Amb
January 5, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **THC**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 4, 2007	Previous Calibration	December 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine / Install	Removal	Other:
Start Time (MST)	10:57	End Time (MST)	13:58
Barometric Pressure	0.906 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 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	1.004045	Calculated slope	1.001476
Calculated intercept	-0.047912	Calculated intercept	-0.018571
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	6830	capture	6786	capture
THC zero counts	1201	capture	1149	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	-0.01	N/A
4992	64.92	19.54	19.55	0.9998
4992	39.95	12.08	12.05	1.0028
4993	9.95	3.03	3.09	0.9811
4992	0.00	0.00	-0.14	As Found Zero
4992	64.92	19.54	19.42	As Found Span
			Average Correction Factor	0.9946

Calculated value of As Found Response: 19.593 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	-0.08	ppm	-2.22	ppm
Auto span	20.95	ppm	23.17	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **THC**

Air Monitoring Network **PASZA**

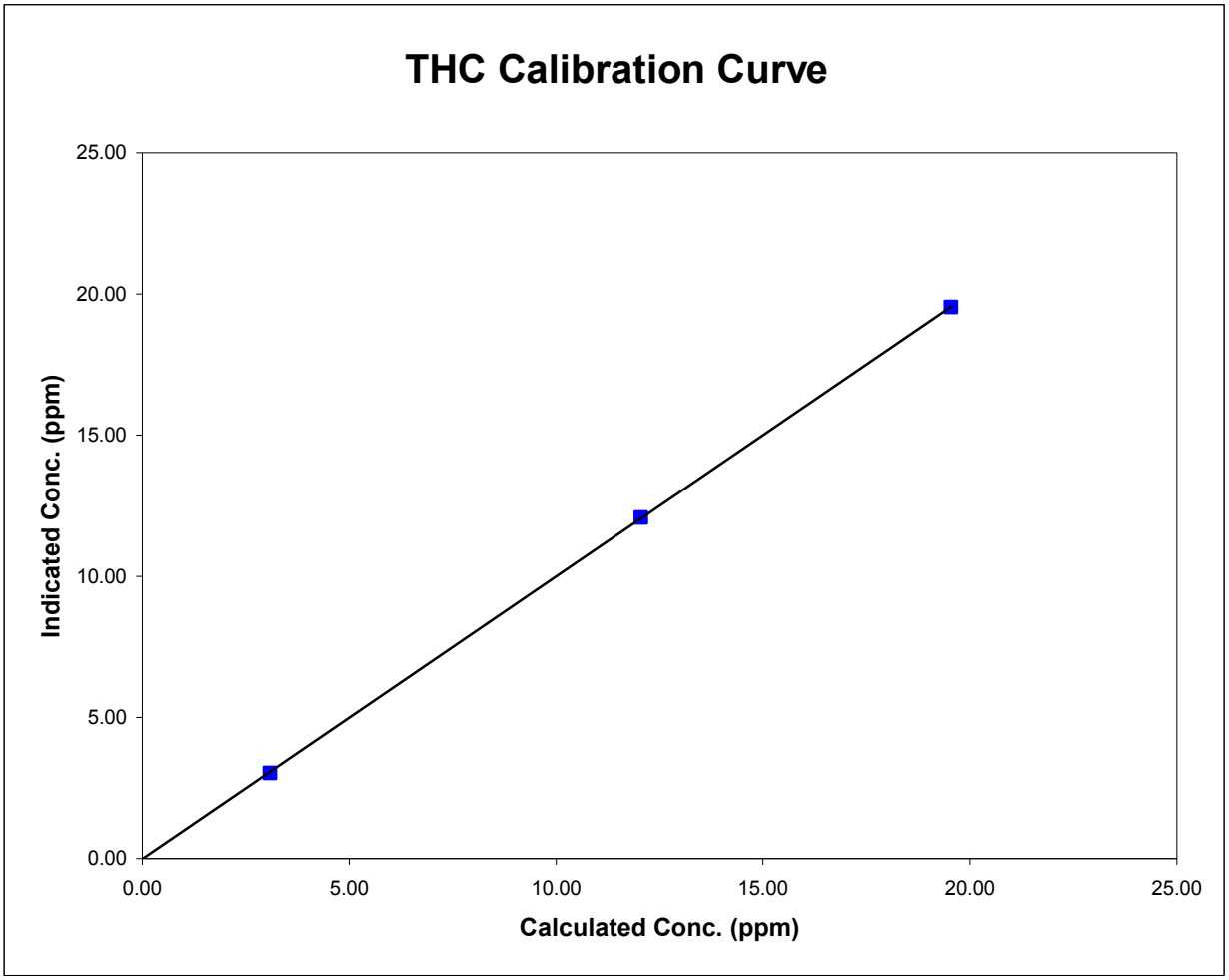
FOCUS AIR QUALITY MONITORING

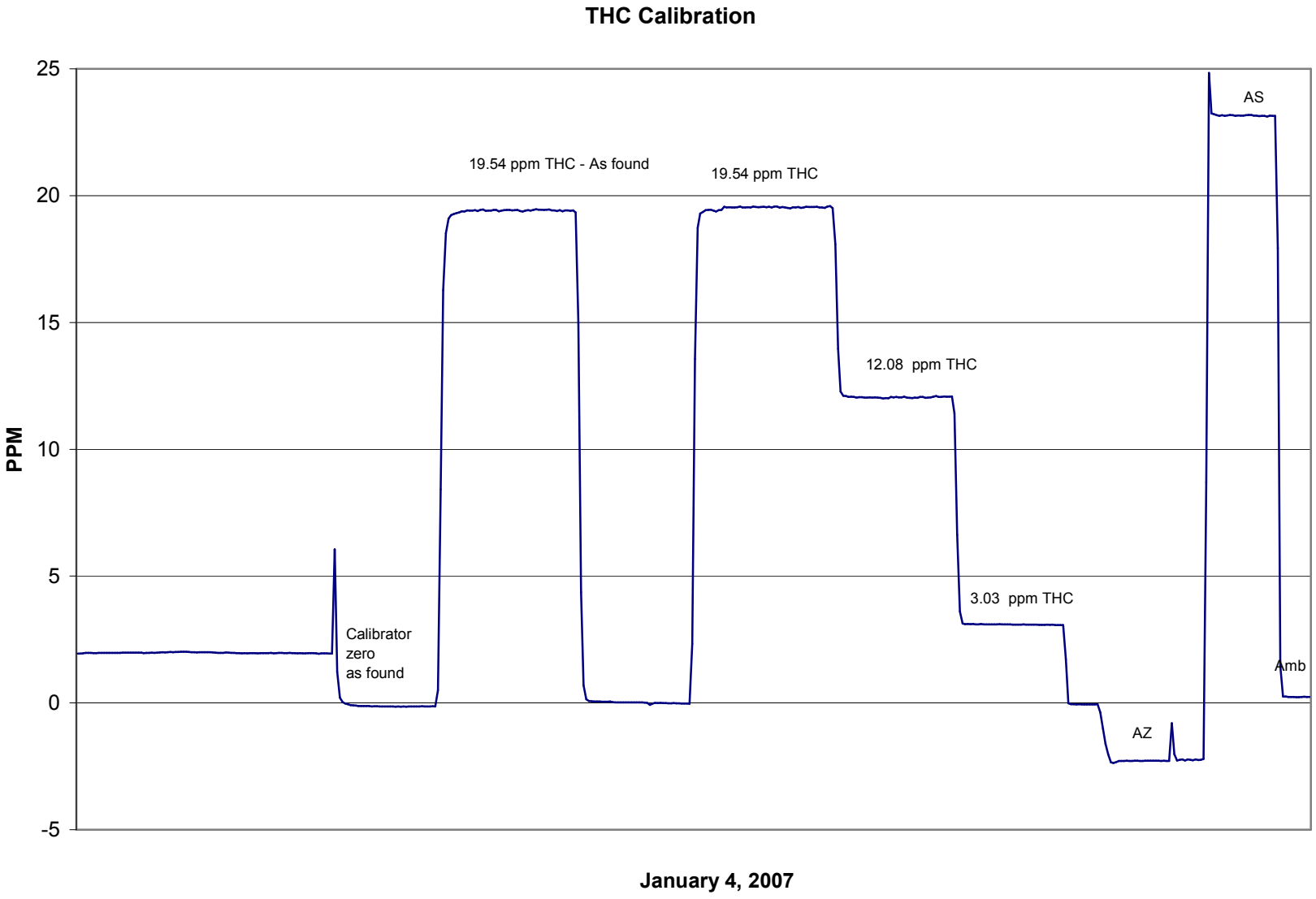
Station Information

Calibration Date	January 4, 2007	Previous Calibration	December 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:57	End Time (MST)	13:58
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	-0.005	N/A		
19.542	19.546	0.9998	Correlation Coefficient	0.999983
12.084	12.050	1.0028		
3.027	3.086	0.9811	Slope	1.001476
			Intercept	-0.018571




THC Calibration
25
20
15
10
5
0
-5
PPM
19.54 ppm THC - As found
19.54 ppm THC
12.08 ppm THC
3.03 ppm THC
Calibrator
zero
as found
AZ
AS
Amb
January 4, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason: Routine	Install	Removal	Other:
Start Time (MST)	10:55:00 AM	End Time (MST)	1:53:00 PM
Barometric Pressure	27.1 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.920525	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.004268	Calculated slope	0.994031
Calculated intercept	0.626362	Calculated intercept	-0.016226
Analyzer make	TEI Model 43C	Analyzer serial #	31990000000491

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	28.8	ppb	28	ppb
coefficient	1.182		1.198	
Lamp Voltage	911	volts	912	volts
Chamber Temp	45	Deg C	44.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	643.1	mm Hg	661.9	mm Hg
Sample Flow	625	ccm	632	ccm
Lamp Intensity	38,800	mv	38,700	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	2301.3	0.0	0.1	N/A
2500	2301.3	73.4	73.8	0.9945
5025	4625.6	36.5	37.0	0.9868
9000	8284.7	20.4	20.2	1.0074
zero	2301.3	0.0	-0.6	As Found Zero
2500	2301.3	73.4	71.1	As Found Span
			Average Correction Factor	0.9962

Calculated value of As Found Response: 72.60 ppm Percent Change of As Found: 1.1%

	before calibration		after calibration	
Auto zero	0.2	ppm	0.4	ppm
Auto span	67.7	ppm	67.1	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

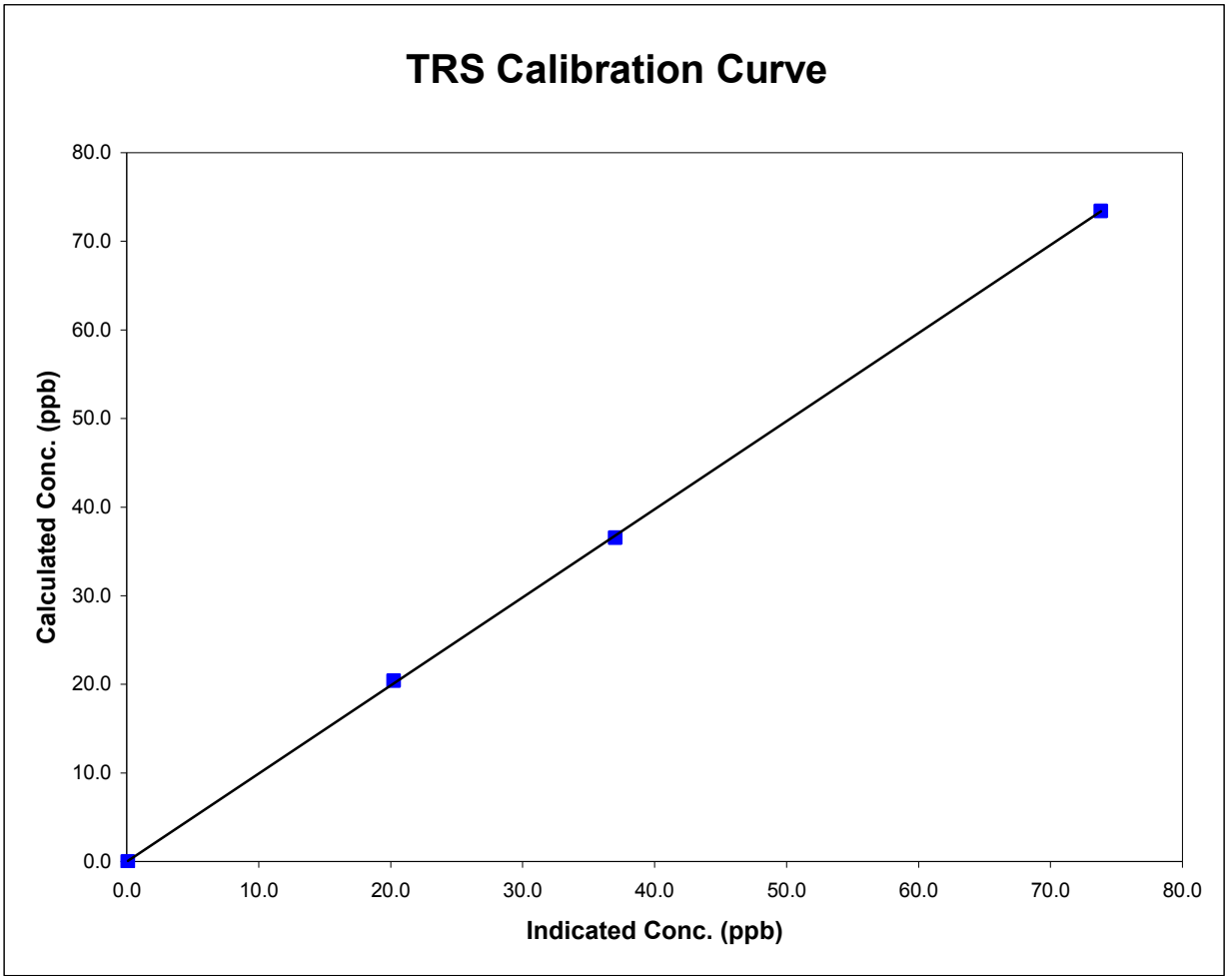
Air Monitoring Network **PASZA**

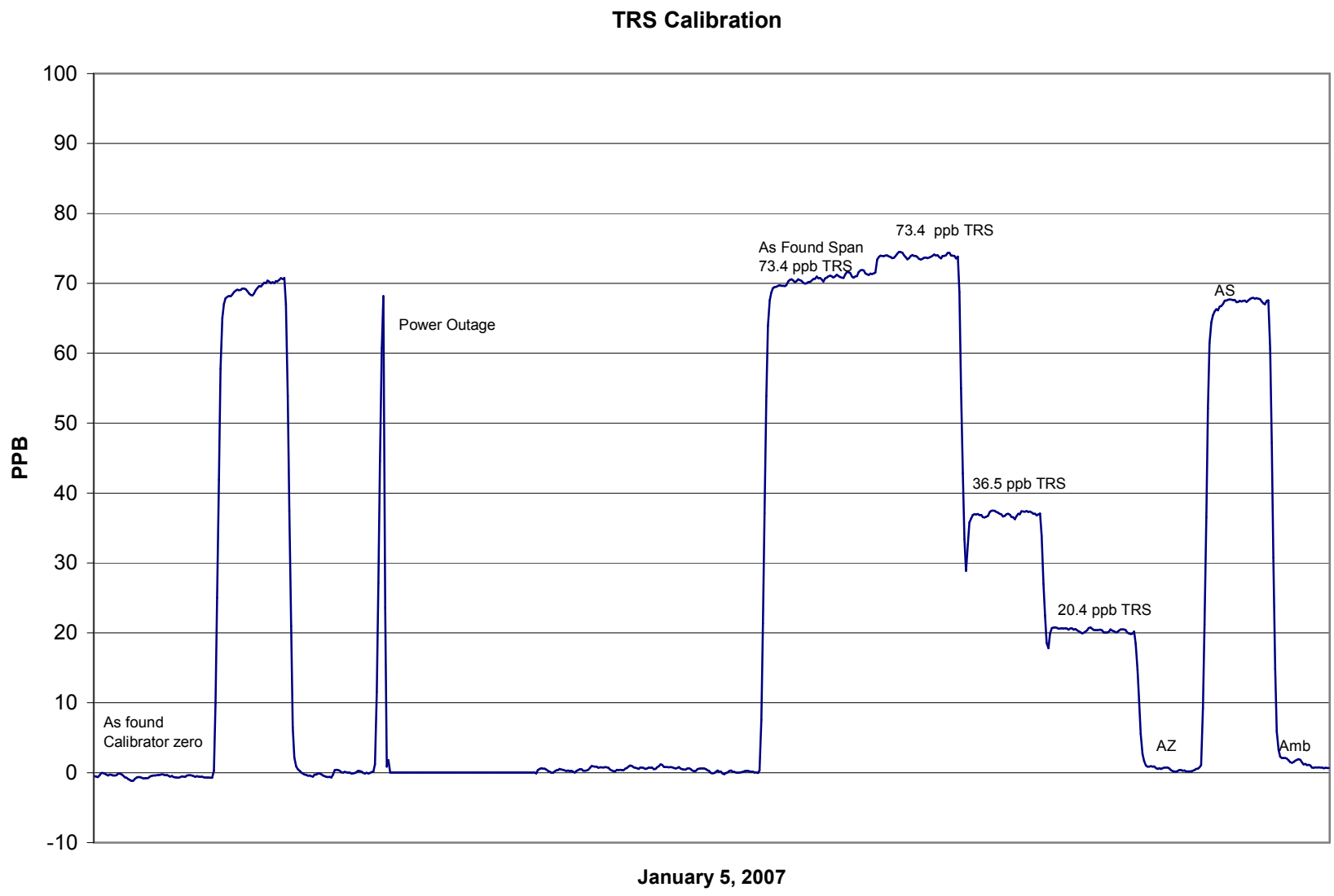
Station Information

Calibration Date	January 5, 2007	Previous Calibration	December 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:55	End Time (MST)	13:53
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
73.4	73.8	0.9945	Correlation Coefficient	0.999946
36.5	37.0	0.9868		
20.4	20.2	1.0074	Slope	0.994031
			Intercept	-0.016226




TRS Calibration
100
90
80
70
60
50
40
30
20
10
0
-10
PPB
As found
Calibrator zero
Power Outage
As Found Span
73.4 ppb TRS
73.4 ppb TRS
36.5 ppb TRS
20.4 ppb TRS
AZ
AS
Amb
January 5, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 5, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	Routine / Install	Removal	Other:
Start Time (MST)	11:35	End Time (MST)	15:11
Barometric Pressure	28.0 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	0.951799	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	0.985657	Calculated slope	1.007288
Calculated intercept	1.588956	Calculated intercept	0.590194
Analyzer make	TECO	Analyzer serial #	43A-25573-221

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	475	ccm	475	ccm
Lamp Voltage	797	mv	797	mv
Vacuum	21.2	" Hg	21.2	" Hg
Span Pot	490		490	
Zero Pot	100		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	2355.7	0.0	0.3	N/A
2475	2355.7	315.3	313.2	1.0067
5000	4759.0	156.1	152.8	1.0211
9100	8661.4	85.8	84.4	1.0158
zero	2379.5	0.0	0.3	As Found Zero
2500	2379.5	312.2	334.0	As Found Span
			Average Correction Factor	1.0145

Calculated value of As Found Response: 330.519 ppm Percent Change of As Found: -5.9%

	before calibration		after calibration	
Auto zero	1.5	ppm	2.0	ppm
Auto span	136.9	ppm	138.4	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

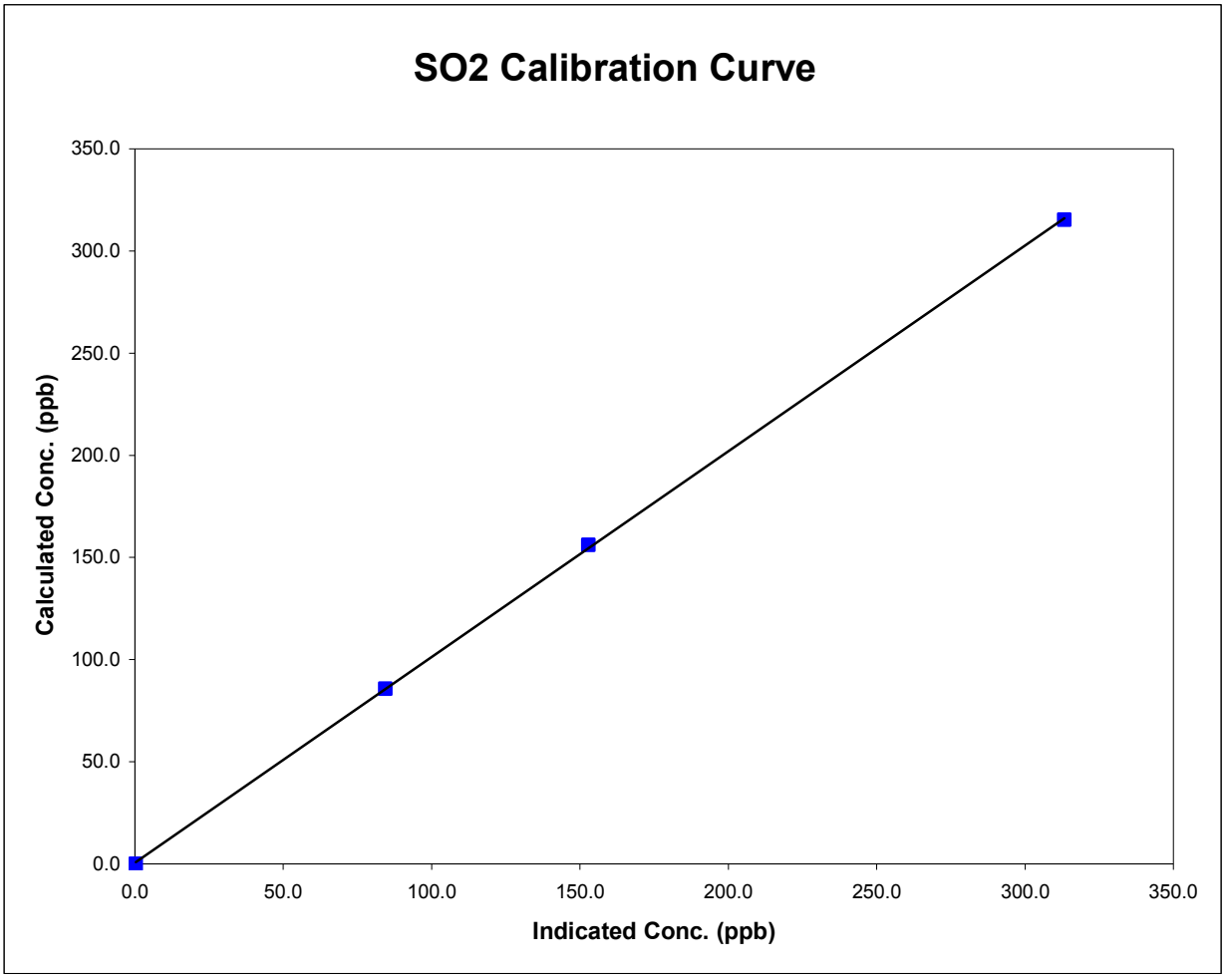
Air Monitoring Network **PASZA**

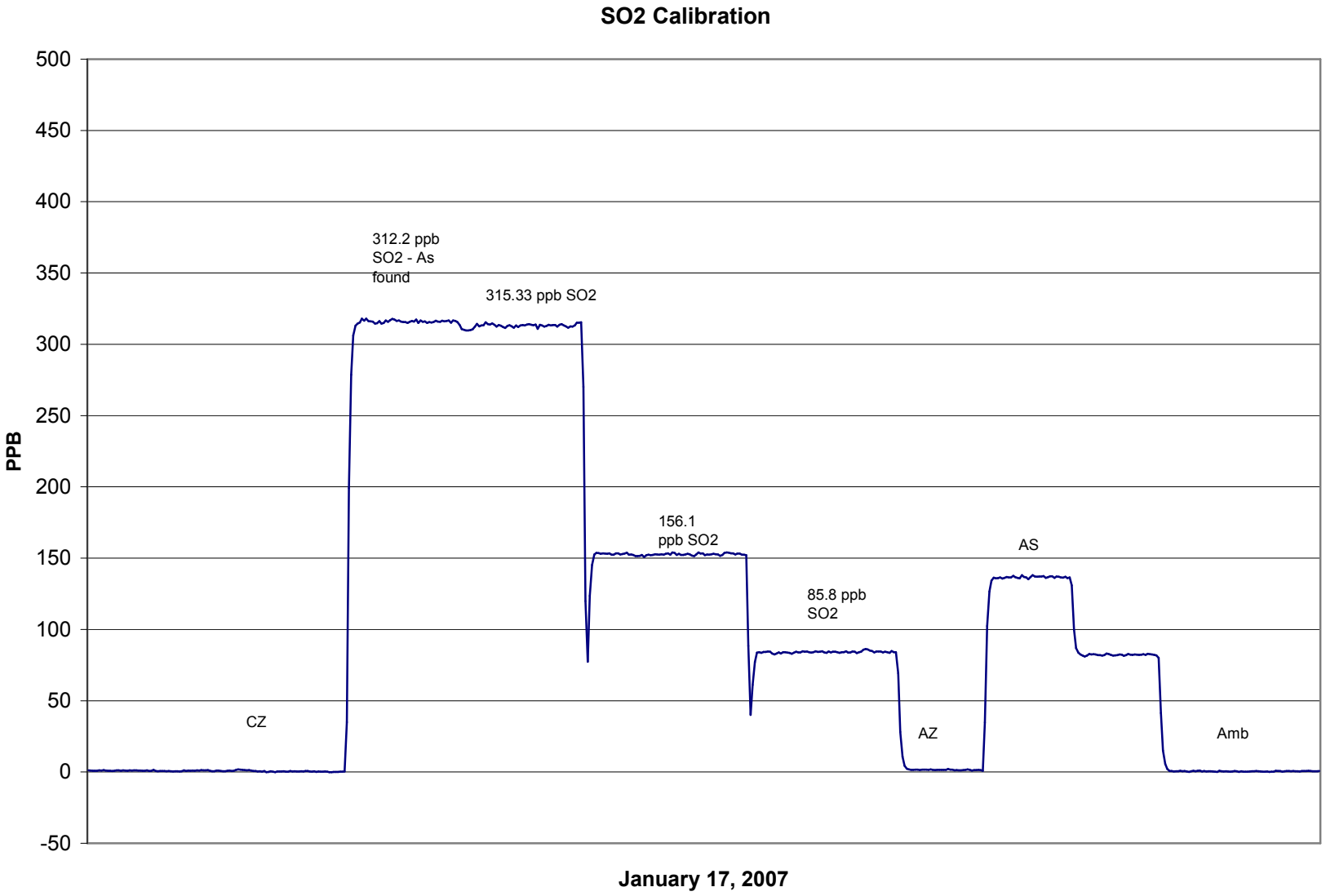
Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 5, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:35	End Time (MST)	15:11
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	0.3	N/A		
315.3	313.2	1.0067	Correlation Coefficient	0.999930
156.1	152.8	1.0211		
85.8	84.4	1.0158	Slope	1.007288
			Intercept	0.590194




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
312.2 ppb
SO2 - As
found
315.33 ppb SO2
156.1
ppb SO2
85.8 ppb
SO2
AS
CZ
AZ
Amb
January 17, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 5, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	Routine / Install	Removal	Other:

Start Time (MST)	11:35	End Time (MST)	15:11
Barometric Pressure	28.00 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	0.951799	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.982821	Calculated slope	1.001229
Calculated intercept	0.687396	Calculated intercept	0.388525

Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	16.6	ppb	16.6	ppb
coefficient	1.016		1.016	
Lamp Voltage	824	volts	824	volts
Chamber Temp	44.5	Deg C	44.5	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	674.4	mm Hg	674.4	mm Hg
Sample Flow	486	ccm	486	ccm
Lamp Intensity	49,000	mv	49,000	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	2355.7	0.0	0.0	N/A
2475	2355.7	71.7	71.5	1.0025
5000	4759.0	35.5	34.6	1.0263
9100	8661.4	19.5	18.8	1.0353
zero	2379.5	0.0	0.0	As Found Zero
2500	2379.5	71.0	74.1	As Found Span
			Average Correction Factor	1.0214

Calculated value of As Found Response: 73.44 ppm Percent Change of As Found: -3.4%

	before calibration		after calibration	
Auto zero	0.7	ppm	0.5	ppm
Auto span	79.9	ppm	78.3	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

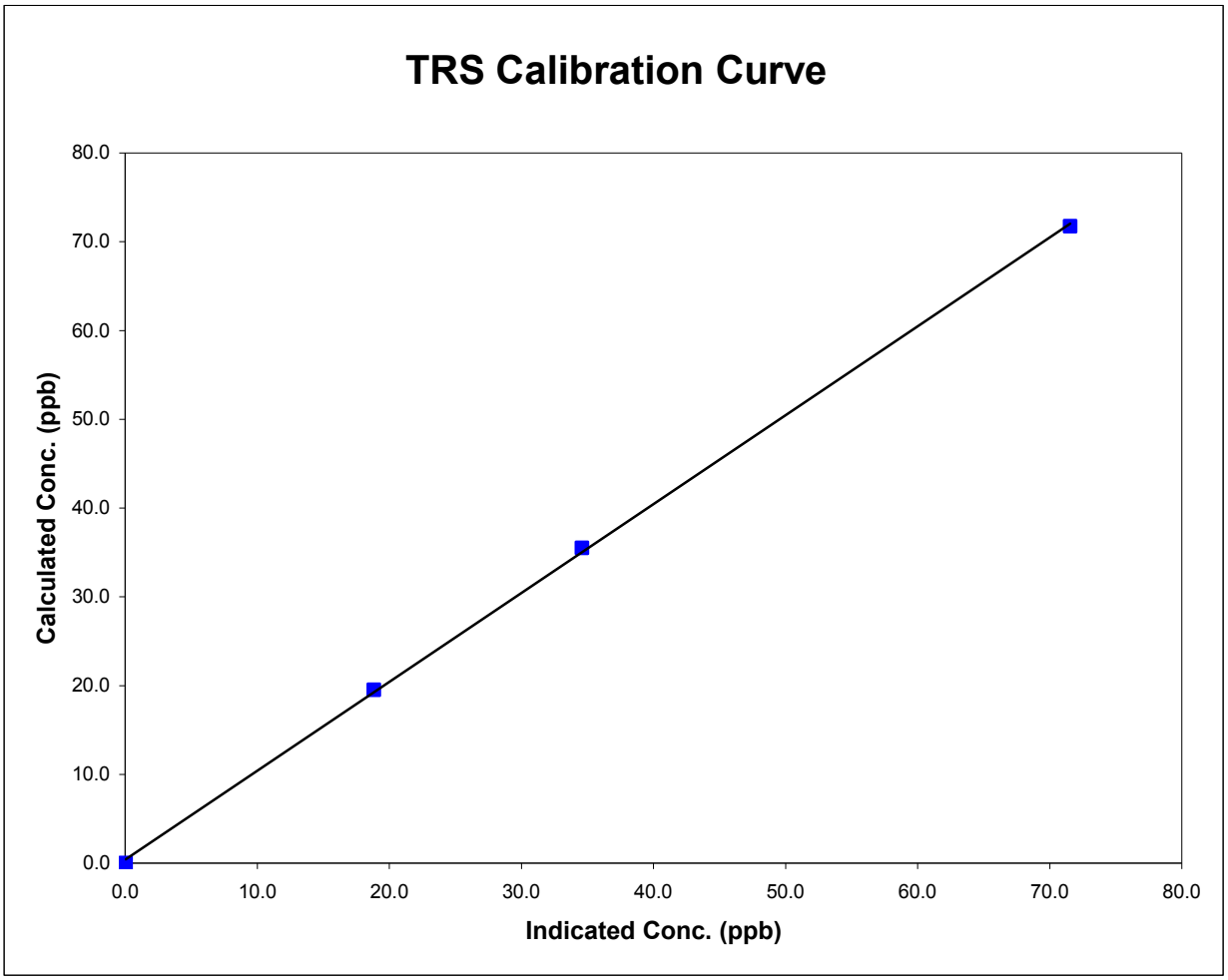
FOCUS AIR QUALITY MONITORING

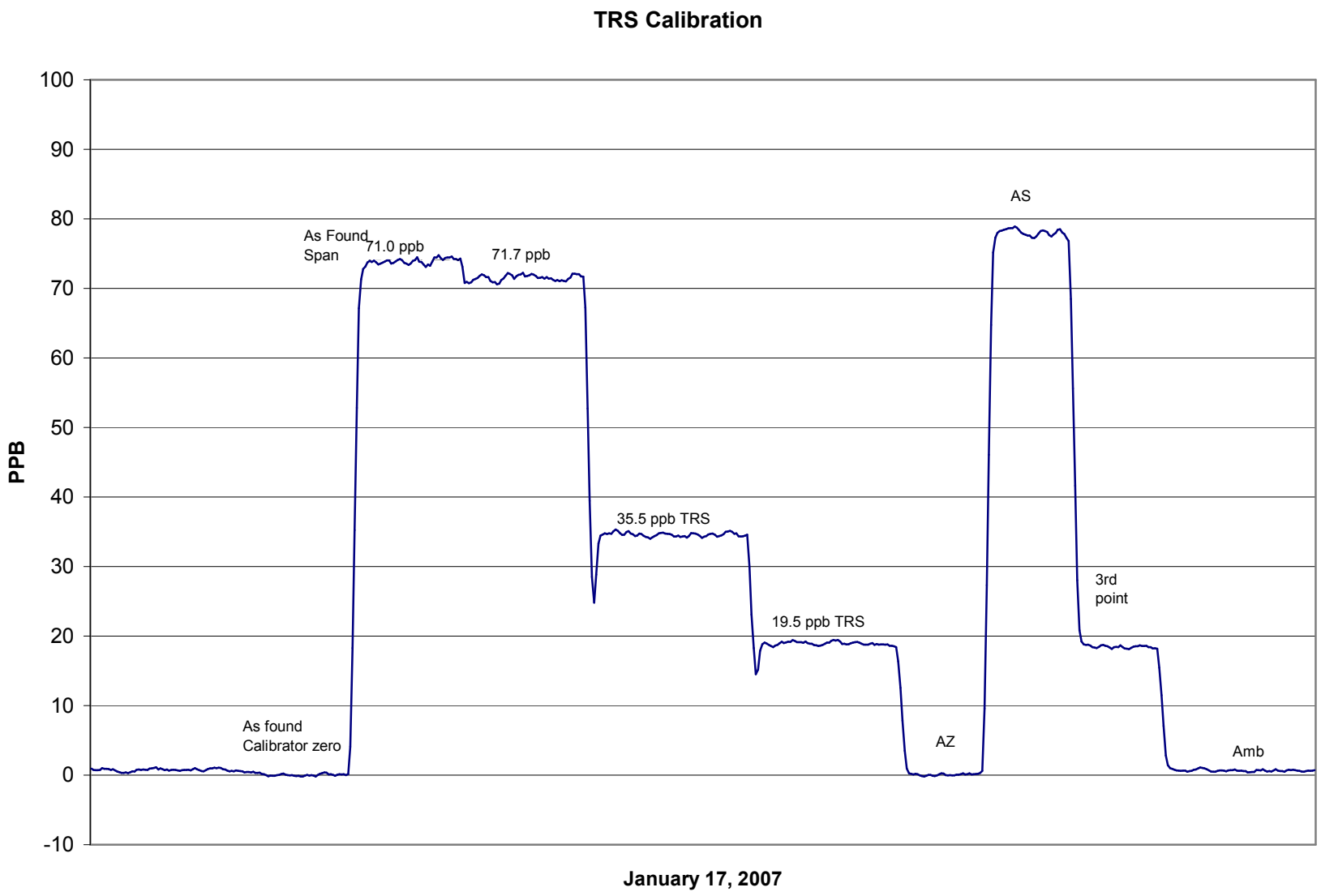
Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 5, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:35	End Time (MST)	15:11
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
71.7	71.5	1.0025	Correlation Coefficient	0.999793
35.5	34.6	1.0263		
19.5	18.8	1.0353	Slope	1.001229
			Intercept	0.388525




TRS Calibration
PPB
100
90
80
70
60
50
40
30
20
10
0
-10
As Found
Span
71.0 ppb
71.7 ppb
35.5 ppb TRS
19.5 ppb TRS
AS
3rd
point
As found
Calibrator zero
AZ
Amb
January 17, 2007

Calibration Report

FOCUS
AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 19, 2007	Previous Calibration	December 20, 2006
Station Number	3	Station Location	Smoky Heights
Reason: Routine	Install	Removal	Other:

Start Time (MST)	10:45	End Time (MST)	14:35
Barometric Pressure	27.74 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Expiry Date	8/6/2006
Correction factor	0.942961	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	0.997149	Calculated slope	0.979825
Calculated intercept	1.299373	Calculated intercept	2.364403

Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	579	ccm	570	ccm
UV Lamp Voltage	3759	mv	1700	mv
Lamp Ratio	109	%	51	%
Rx Cell Temp	51.4	Deg C	49.5	Deg C
PMT Temp	6.9	Deg C	7.1	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	1.239		1.406	
Intercept	39.1		22	

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	1980.2	0.0	-0.8	N/A
2100	1980.2	375.1	381.9	0.9822
4400	4149.0	179.0	176.9	1.0119
8550	8062.3	92.1	91.9	1.0021
zero	1791.6	0.0	1.2	As Found Zero
1900	1791.6	414.6	387.5	As Found Span
			Average Correction Factor	0.9987

Calculated value of As Found Response: 386.484 ppm Percent Change of As Found: 6.8%

	before calibration		after calibration	
Auto zero	0.9	ppm	2.0	ppm
Auto span	206.8	ppm	234.6	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS
AIR QUALITY MONITORING

Parameter **SO2**

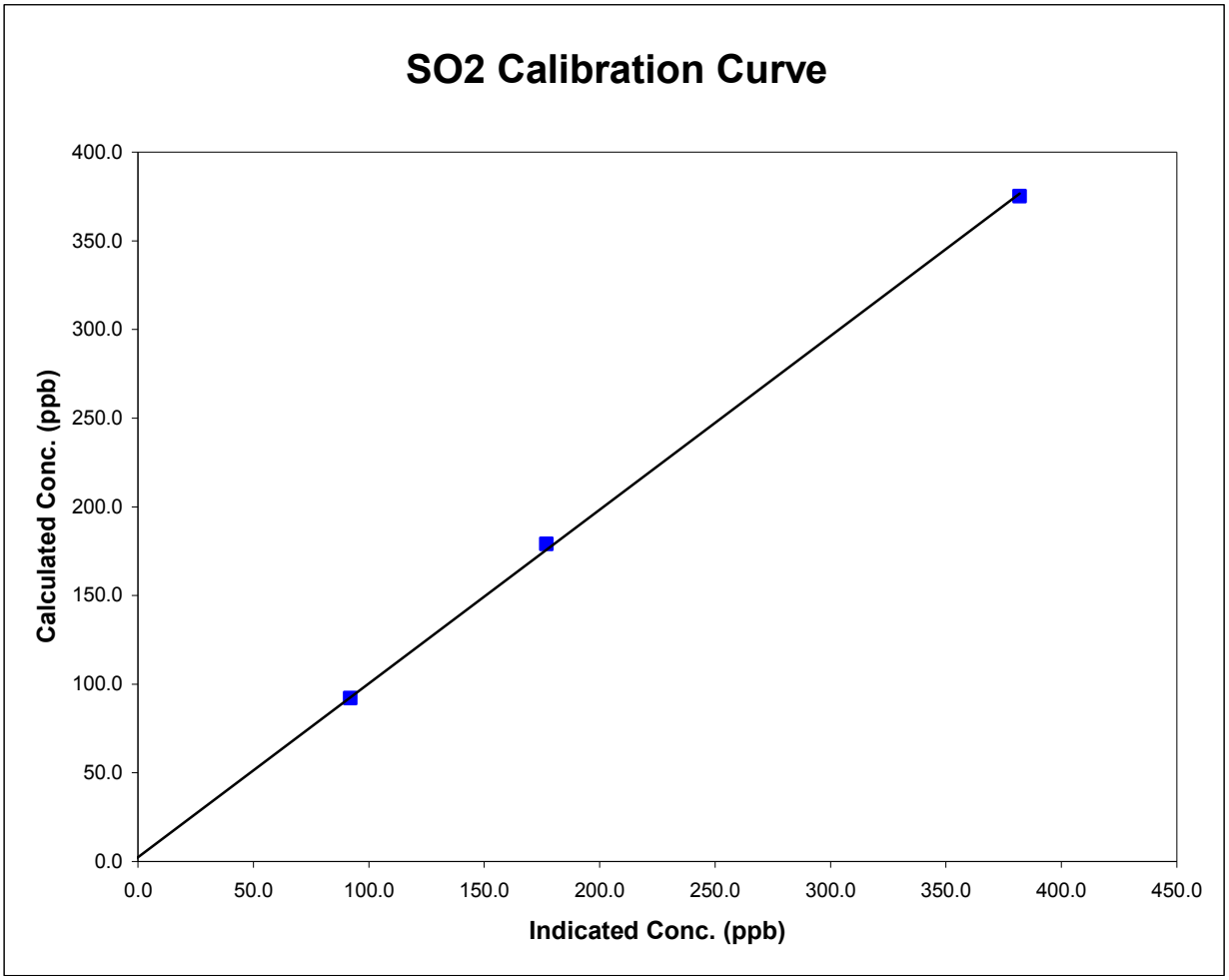
Air Monitoring Network **PASZA**

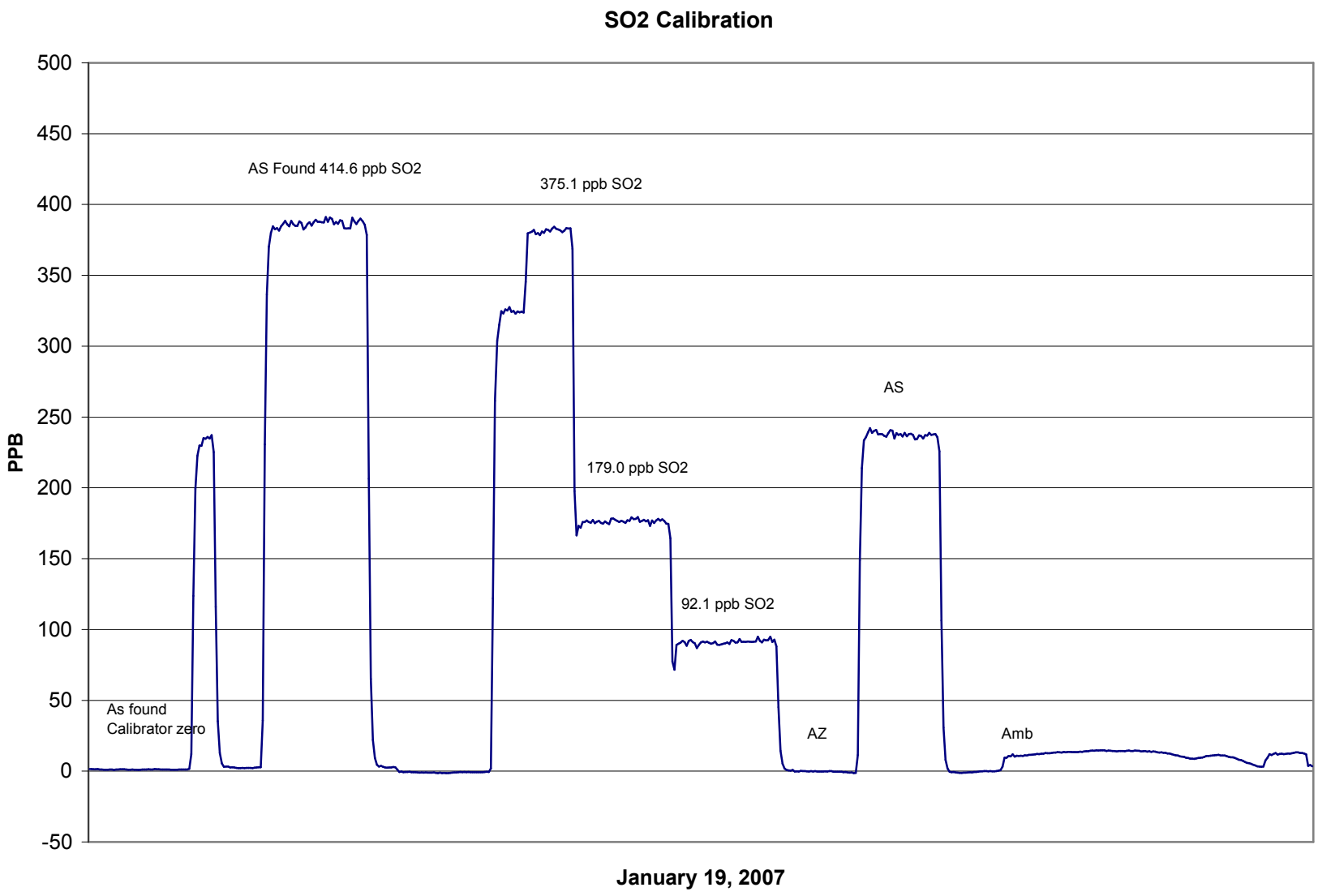
Station Information

Calibration Date	January 19, 2007	Previous Calibration	December 20, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:45	End Time (MST)	14:35
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	-0.8	N/A		
375.1	381.9	0.9822	Correlation Coefficient	0.999797
179.0	176.9	1.0119		
92.1	91.9	1.0021	Slope	0.979825
			Intercept	2.364403




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
AS Found 414.6 ppb SO2
375.1 ppb SO2
179.0 ppb SO2
92.1 ppb SO2
AS
As found
Calibrator zero
AZ
Amb
January 19, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 19, 2007	Previous Calibration	December 20, 2006
Station Number	3	Station Location	Smoky Heights
Reason: Routine	Install	Removal	Other:
Start Time (MST)	10:45	End Time (MST)	14:35
Barometric Pressure	27.74 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/6/2006
Correction factor	0.942961	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.994143	Calculated slope	0.994902
Calculated intercept	0.101262	Calculated intercept	-0.855025
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	12.4	ppb	14.8	ppb
coefficient	1.138		1.313	
Lamp Voltage	780	volts	779	volts
Chamber Temp	43.9	Deg C	44	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	507.7	mm Hg	494.2	mm Hg
Sample Flow	795	ccm	780	ccm
Lamp Intesity	32,200	mv	32,000	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	1980.2	0.0	0.0	N/A
2100	1980.2	85.3	86.0	0.9924
4400	4149.0	40.7	42.9	0.9491
8550	8062.3	21.0	22.3	0.9411
zero	1791.6	0.0	-0.1	As Found Zero
1900	1791.6	94.3	88.9	As Found Span
			Average Correction Factor	0.9609

Calculated value of As Found Response: 88.58 ppm Percent Change of As Found: 6.1%

	before calibration		after calibration	
Auto zero	-0.1	ppm	-1.1	ppm
Auto span	50.4	ppm	55.2	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS
AIR QUALITY MONITORING

Parameter **TRS**

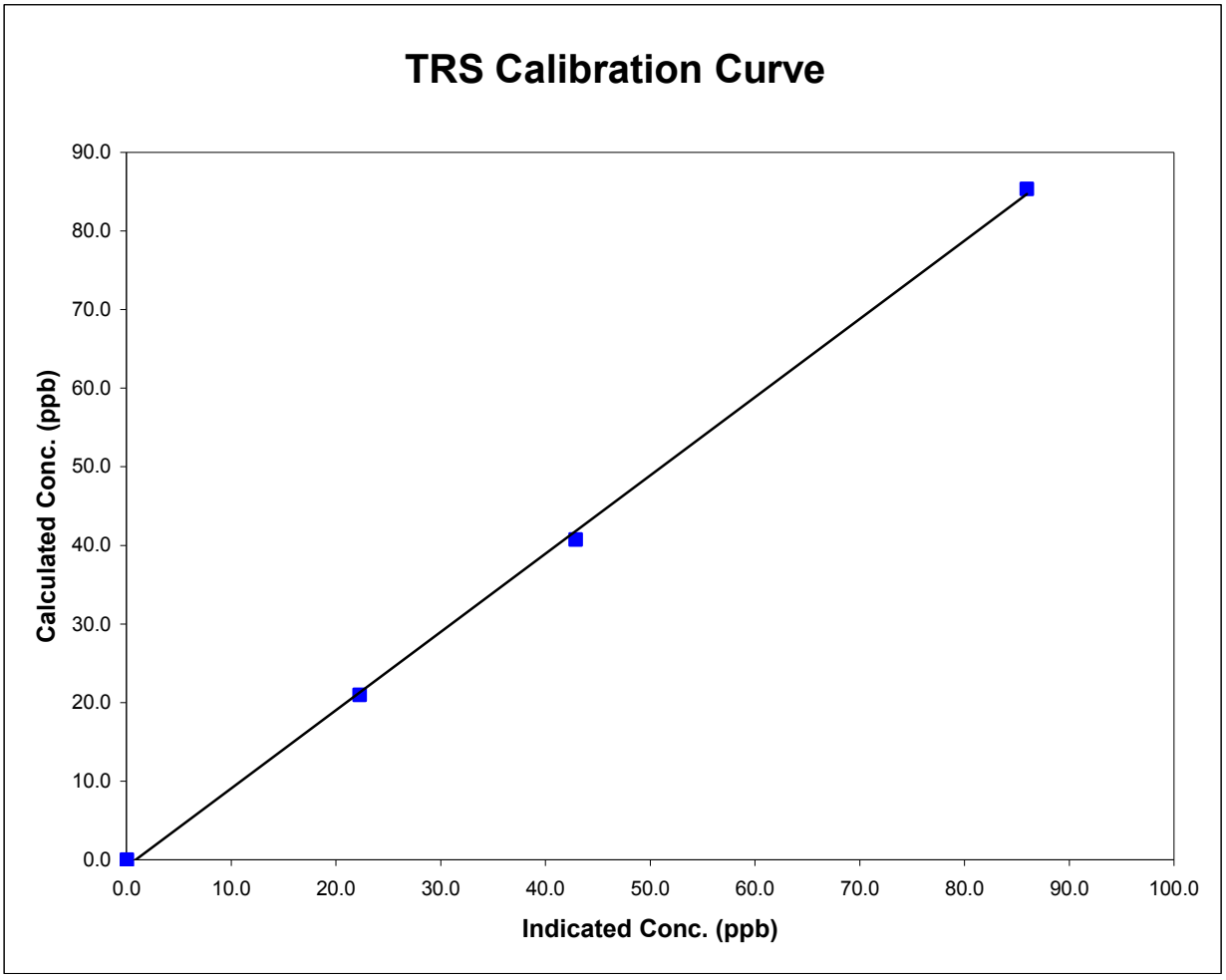
Air Monitoring Network **PASZA**

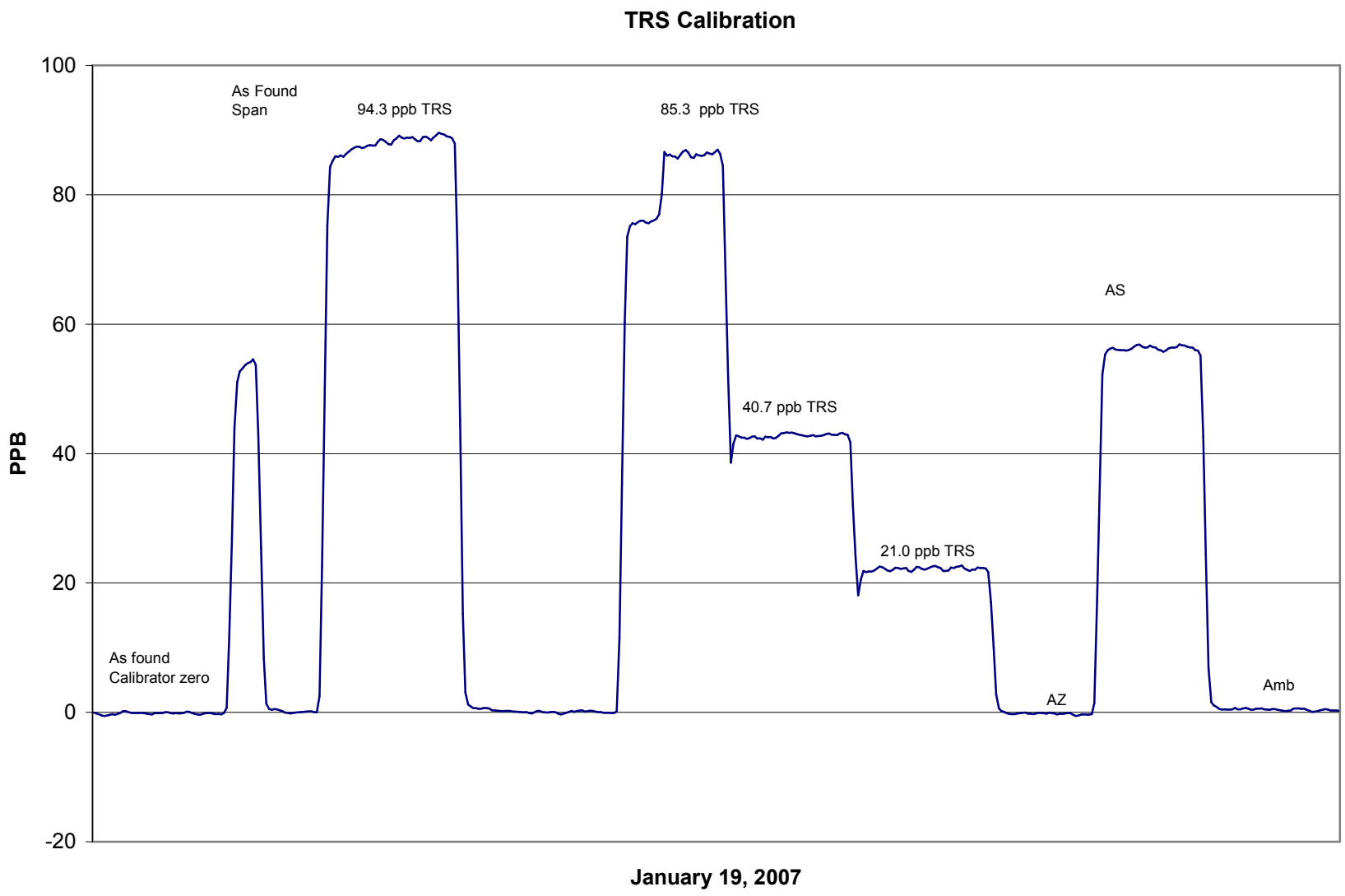
Station Information

Calibration Date	January 19, 2007	Previous Calibration	December 20, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:45	End Time (MST)	14:35
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
85.3	86.0	0.9924	Correlation Coefficient	0.999391
40.7	42.9	0.9491		
21.0	22.3	0.9411	Slope	0.994902
			Intercept	-0.855025




TRS Calibration
100
80
60
40
20
0
-20
PPB
As Found
Span
94.3 ppb TRS
85.3 ppb TRS
AS
40.7 ppb TRS
21.0 ppb TRS
As found
Calibrator zero
AZ
Amb
January 19, 2007

Calibration Report

FOCUS
AIR QUALITY MONITORING

Parameter **PM2.5**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 19, 2007	Previous Calibration	December 20, 2006
Station Number	3	Station Location	Smoky Heights
Reason:	Routine / Install	Removal	Other:
Start Time (MST)	13:00	End Time (MST)	14:45
Barometric Pressure	0.921 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	12122		12122	
Temperature	-.7	Deg C	-.7	Deg C
Pressure	0.921	ATM	0.921	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	0.09		0.09
zero flow - auxillary	0.0	0.25		0.25
flow recovery - main	45 - 60 Seconds	35	45 - 60 Seconds	35
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	40
Temperature	measured	-0.7	+/- 1.0 Deg C	-0.7
Pressure	measured	0.921	+/- 1.5% ΔATM	0.921
Total Flow	16.67 SLPM	17.00		17.00
Main Flow	13.67 SLPM	13.95	+/- 1.0 SLPM	13.95
Auxillary Flow	3.0 SLPM	3.060	+/- 0.2 SLPM	3.060
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 Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	Beaverlodge
Reason: Routine	Install	Removal	Other:
Start Time (MST)	16:53	End Time (MST)	19:33
Barometric Pressure	0.912 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
	Before		After
Calculated slope	0.998103	Calculated slope	1.000759
Calculated intercept	-0.165506	Calculated intercept	-0.381232
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.24	ppb	2.31	ppb
Coefficient	0.863		0.898	
Lamp Voltage	910.0	Volts	911.0	Volts
Chamber Temp	43.1	Deg C	43.5	Deg C
Sample Flow	604	ccm	573	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	0.26	N/A
4996	39.94	81.69	81.96	0.9967
4996	19.97	41.01	41.38	0.9910
4996	9.95	20.47	20.98	0.9759
4996	0.00	0.00	0.26	As Found Zero
4996	39.94	81.69	79.29	As Found Span
			Average Correction Factor	0.9879

Calculated value of As Found Response: 78.706 ppm Percent Change of As Found: 3.7%

	before calibration		after calibration	
Auto zero	-0.12	ppm	-0.34	ppm
Auto span	31.49	ppm	28.96	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

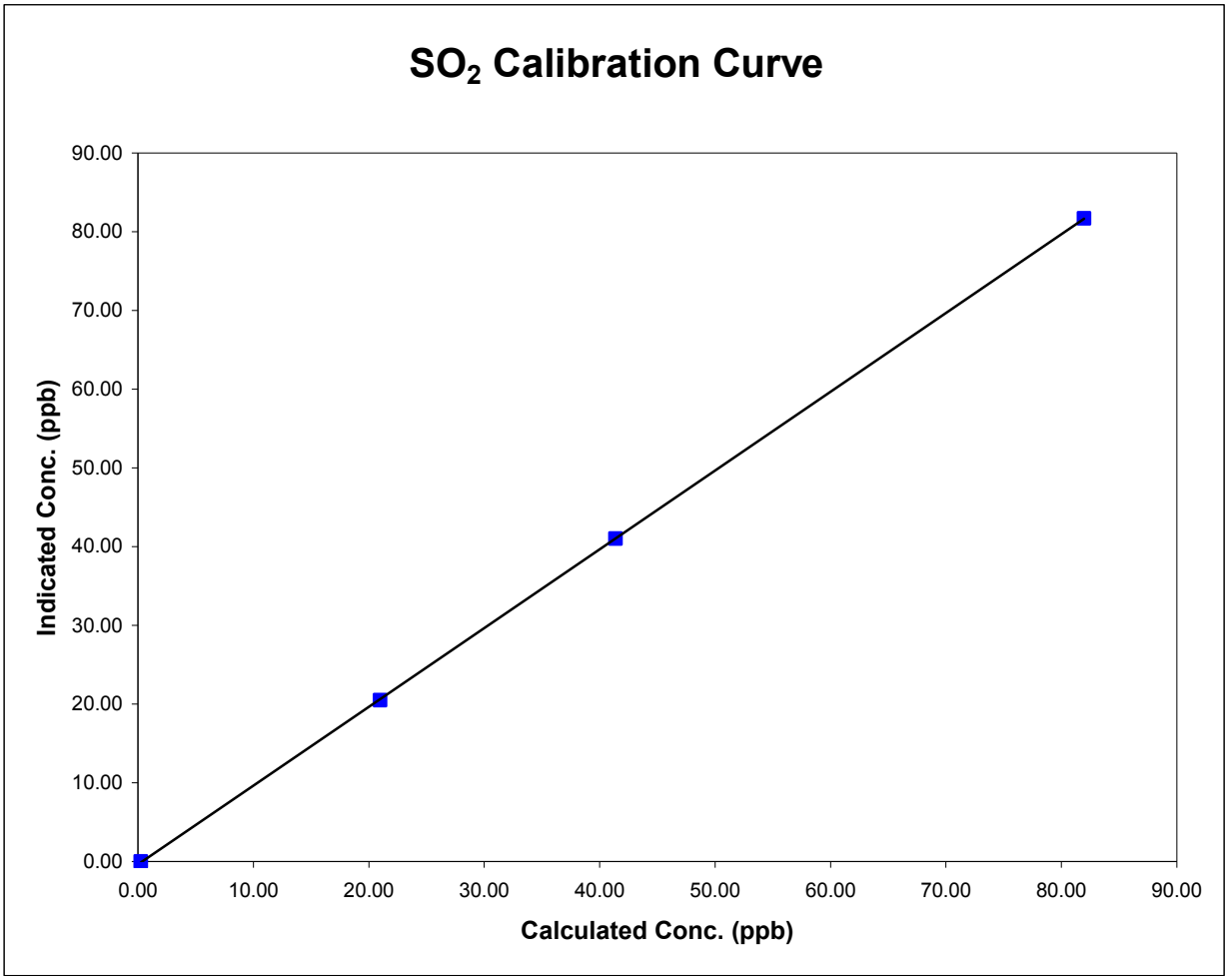
FOCUS AIR QUALITY MONITORING

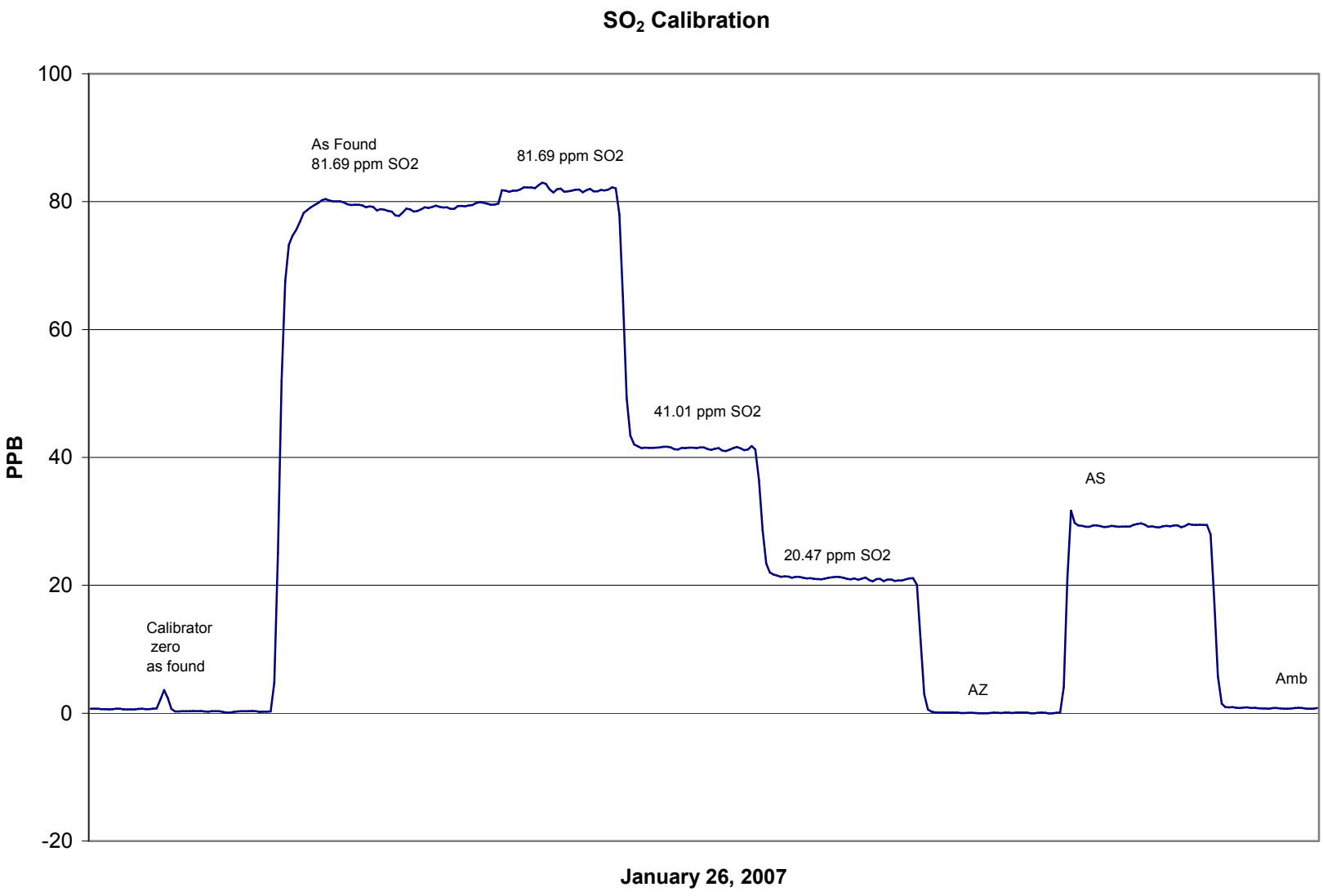
Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	16:53	End Time (MST)	19:33
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.264	N/A		
81.689	81.960	0.9967	Correlation Coefficient	0.999990
41.007	41.382	0.9910		
20.473	20.978	0.9759	Slope	1.000759
			Intercept	-0.381232




SO2 Calibration
100
80
60
40
20
0
-20
PPB
As Found
81.69 ppm SO2
81.69 ppm SO2
41.01 ppm SO2
20.47 ppm SO2
AS
Calibrator
zero
as found
AZ
Amb
January 26, 2007

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	AG Canada Research Station

Reason: Routine Installation Removal Other:

Start Time (MST)	12:35		End Time (MST)	17:47	
Barometric Pressure	0.912	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6103		Serial Number	2488	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	Nov 22/06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.993835	0.995568	0.998264
	Data Offset	-0.413639	0.329343	-0.030768
After	Data Slope	0.991607	0.996778	0.998872
	Data Offset	-0.917515	-1.133139	0.380117
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	1.3	mV
NOx background	1.9	ppb	1.3	mV
NO coefficient	1.050		1.047	
NOx coefficient	0.992		0.974	
Box Temp	35.2	ccm	32.8	ccm
Chamber Temp	49.4	Deg C	49.2	Deg C
Cooler Temp	-2.1	Deg C	-2.0	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	801.0	LPM	799.0	LPM
Ozonator Flow	0.084	LPM	0.086	LPM
Pressure	165.9	inches HG	168.1	inches Hg

Notes: Adjusted span and zero.

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: January 26, 2007 Station Location: AG Canada Research Station

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	N/A	N/A
1	4996	79.86	794.5	791.4	3.1	797.5	792.1	4.5	0.9962	0.9990
2	4996	39.98	400.9	399.3	1.6	403.9	398.7	4.7	0.9925	1.0015
3	4996	20.00	201.4	200.6	0.8	204.7	200.8	3.4	0.9837	0.9988
AFZ	4996	0.00	0.0	0.0	0.0	-1.2	-0.3	-0.5	0.0000	0.0000
AFS	4996	79.86	794.5	791.4	3.1	809.5	790.0	18.7	0.9815	1.0018
							Average Correction Factor		0.9908	0.9998

As Found Concentrations: NO_X= 811.1 NO= 790.3 As Found Percent Change NO_X= 2.1% NO= -0.1%

GPT Calibration Data

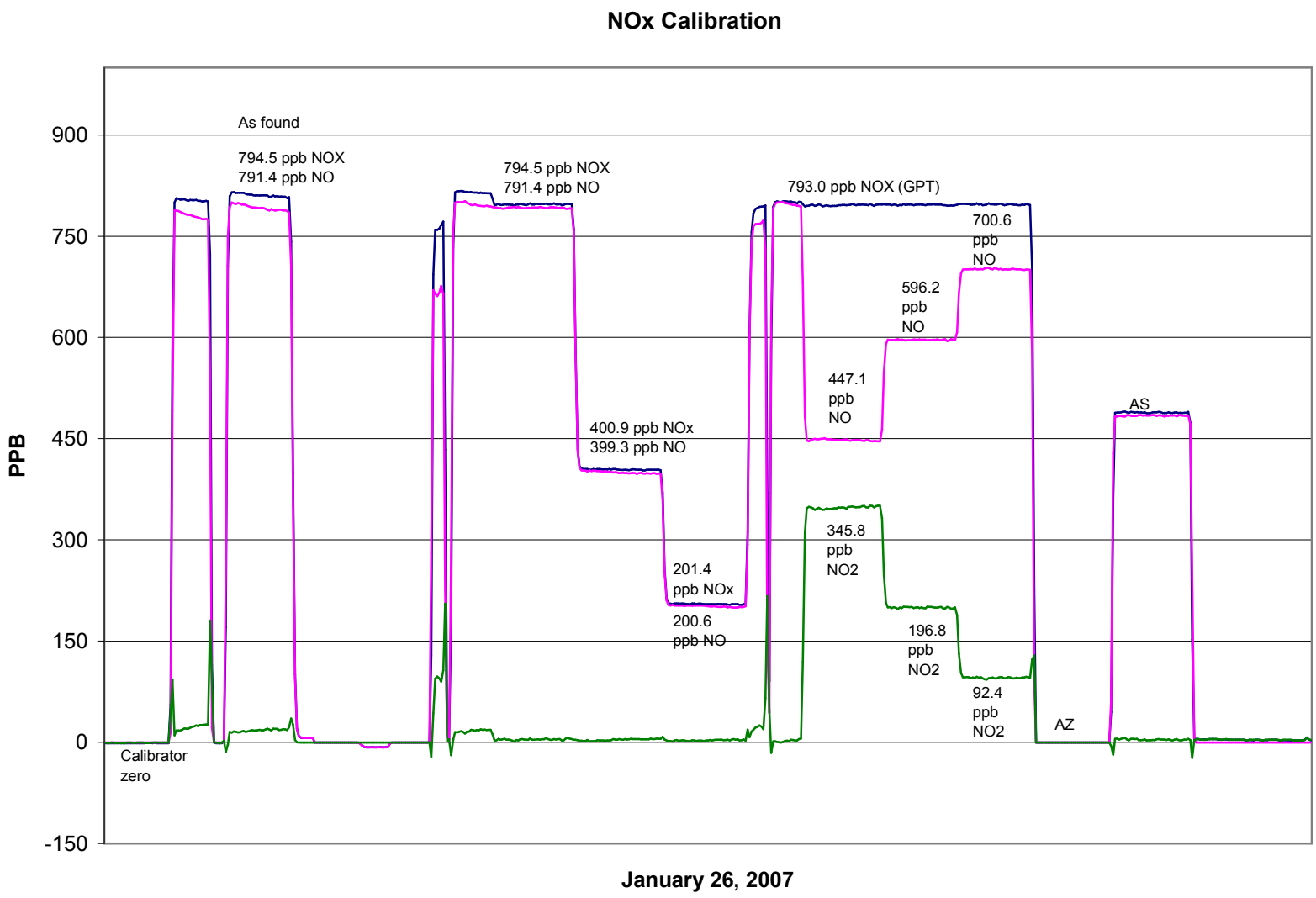
Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	793.0	797.6	-4.7	800.9	798.1	2.0	0.9900	0.9993	N/A	N/A
350	793.0	447.1	345.8	796.6	447.3	349.1	0.9955	0.9997	0.9906	100.9%
200	793.0	596.2	196.8	796.5	596.5	199.6	0.9956	0.9995	0.9859	101.4%
100	793.0	700.6	92.4	796.9	701.0	95.7	0.9950	0.9994	0.9655	103.6%
					Average Correction Factor		0.9954	0.9995	0.9807	102.0%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.0	-0.7	1.0	ppb	-1.4	-1.2	0.1	ppb
Auto span	494.8	6.3	487.8	ppb	485.9	2.8	484.1	ppb

Calibration Performed By: Dawn Ewan


NOx Calibration
PPB
900
750
600
450
300
150
0
-150
As found
794.5 ppb NOX
791.4 ppb NO
794.5 ppb NOX
791.4 ppb NO
793.0 ppb NOX (GPT)
700.6
ppb
NO
596.2
ppb
NO
447.1
ppb
NO
400.9 ppb NOx
399.3 ppb NO
AS
345.8
ppb
NO2
201.4
ppb NOx
200.6
ppb NO
196.8
ppb
NO2
92.4
ppb
NO2
AZ
Calibrator
zero
January 26, 2007

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **PASZA**

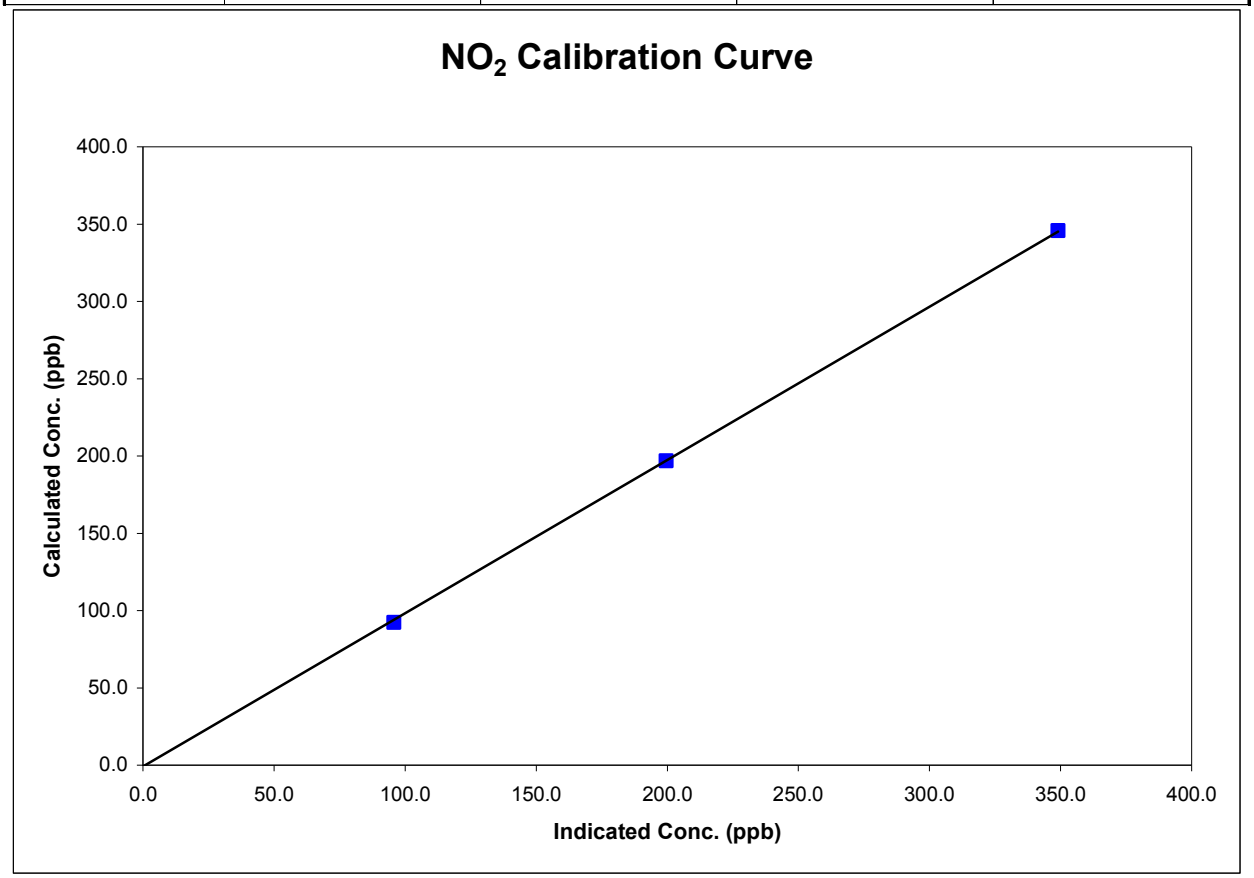
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	12:35	End Time (MST)	17:47
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		
345.8	349.1	0.9906	Correlation Coefficient	0.999933
196.8	199.6	0.9859		
92.4	95.7	0.9655	Slope	0.991607
			Intercept	-0.917515



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

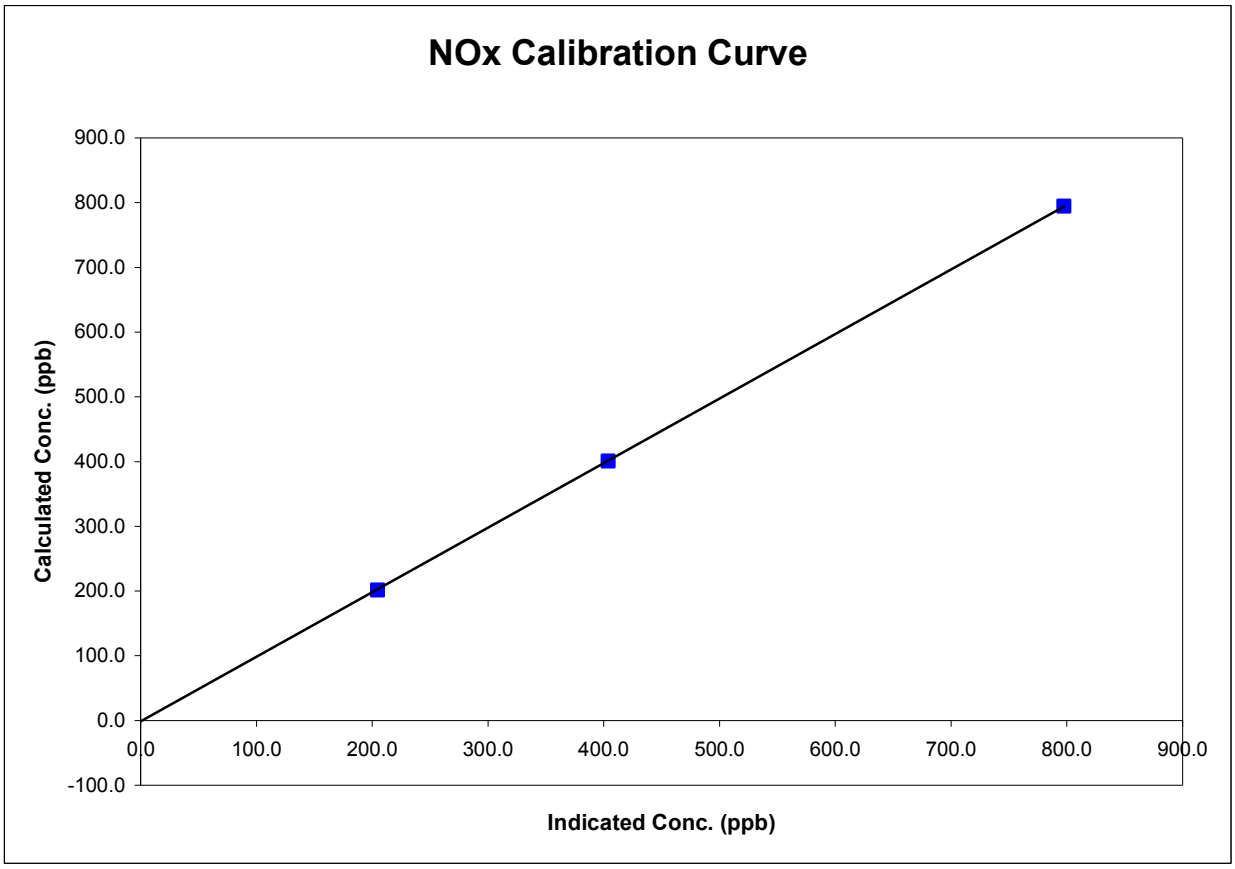
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	12:35	End Time (MST)	17:47
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	797.5	0.9962	Correlation Coefficient	0.999985
400.9	403.9	0.9925		
201.4	204.7	0.9837	Slope	0.996778
			Intercept	-1.133139



Calibration Summary

Parameter **NO**

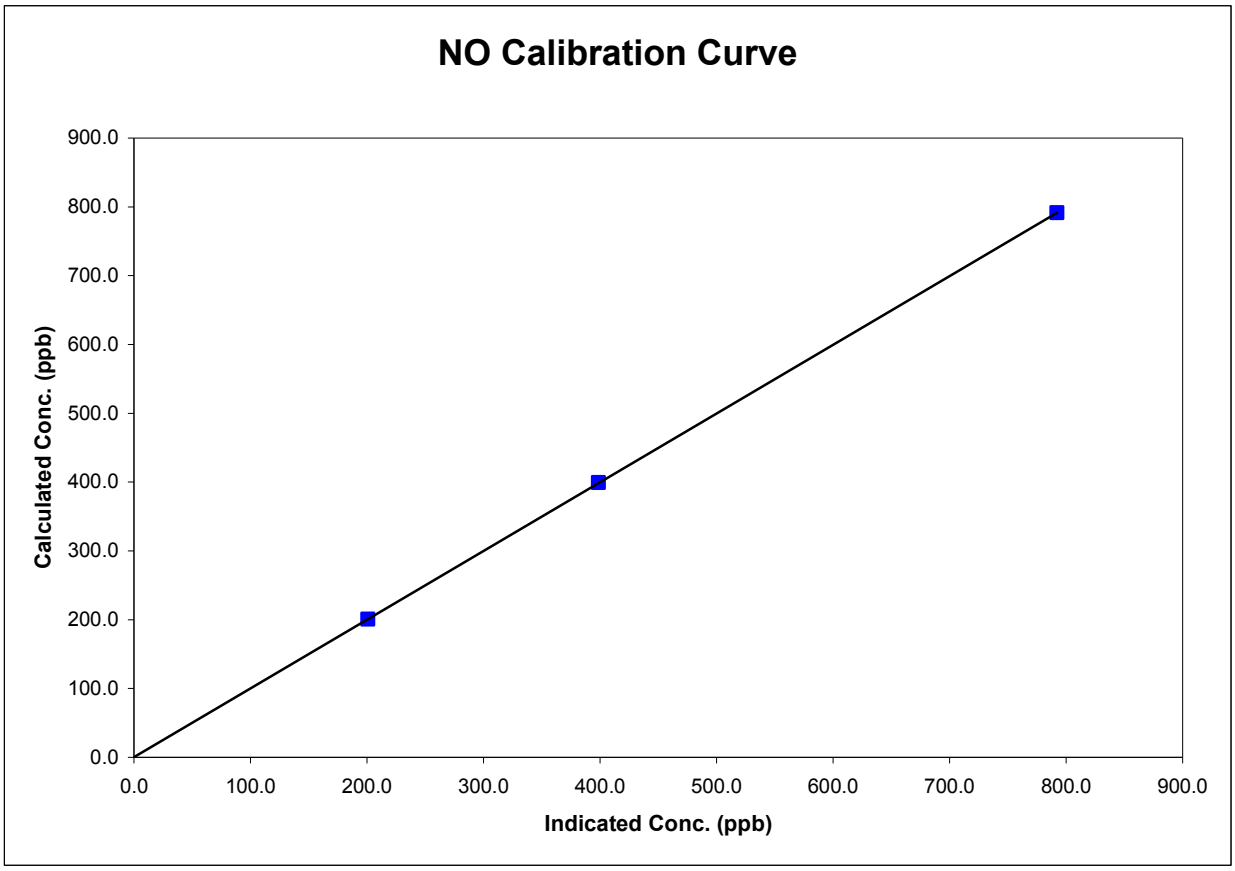
Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	12:35	End Time (MST)	17:47
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		
791.4	792.1	0.9990	Correlation Coefficient	0.999998
399.3	398.7	1.0015		
200.6	200.8	0.9988	Slope	0.998872
			Intercept	0.380117



Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter: O3

Air Monitoring Network: PASZA

Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	Beaverlodge
Reason: Routine	Install	Removal	Other:
Start Time (MST)	18:49	End Time (MST)	21:18
Barometric Pressure	0.912 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.981917	Calculated slope	0.943477
Calculated intercept	-0.345875	Calculated intercept	-1.148069
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.70	ppb	-0.70	ppb
slope	1.15		1.20	
Lamp temp	71	mV	71	mV
Lamp Intensity A/B	84400/82000	mV	84400/82000	mV
Pressure	690	inches Hg	698	inches Hg
Flow A	758	ccm	750	ccm
Flow B	713	Deg C	712	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	0.6	N/A
4992	0.00	345.8	345.4	1.0012
4992	0.00	196.8	195.7	1.0055
4992	0.00	92.4	91.0	1.0152
4992	0.00	0.0	0.6	As found zero
4992	0.00	345.8	335.3	As found span
			Average Correction Factor	1.0073

Calculated value of As Found Response: 328.4 ppm Percent Change of As Found: -5.0%

	before calibration		after calibration	
Auto zero	0.1	ppb	-0.6	ppb
Auto span	110.9	ppb	108.0	ppb

Notes: Adjusted span.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **O3**

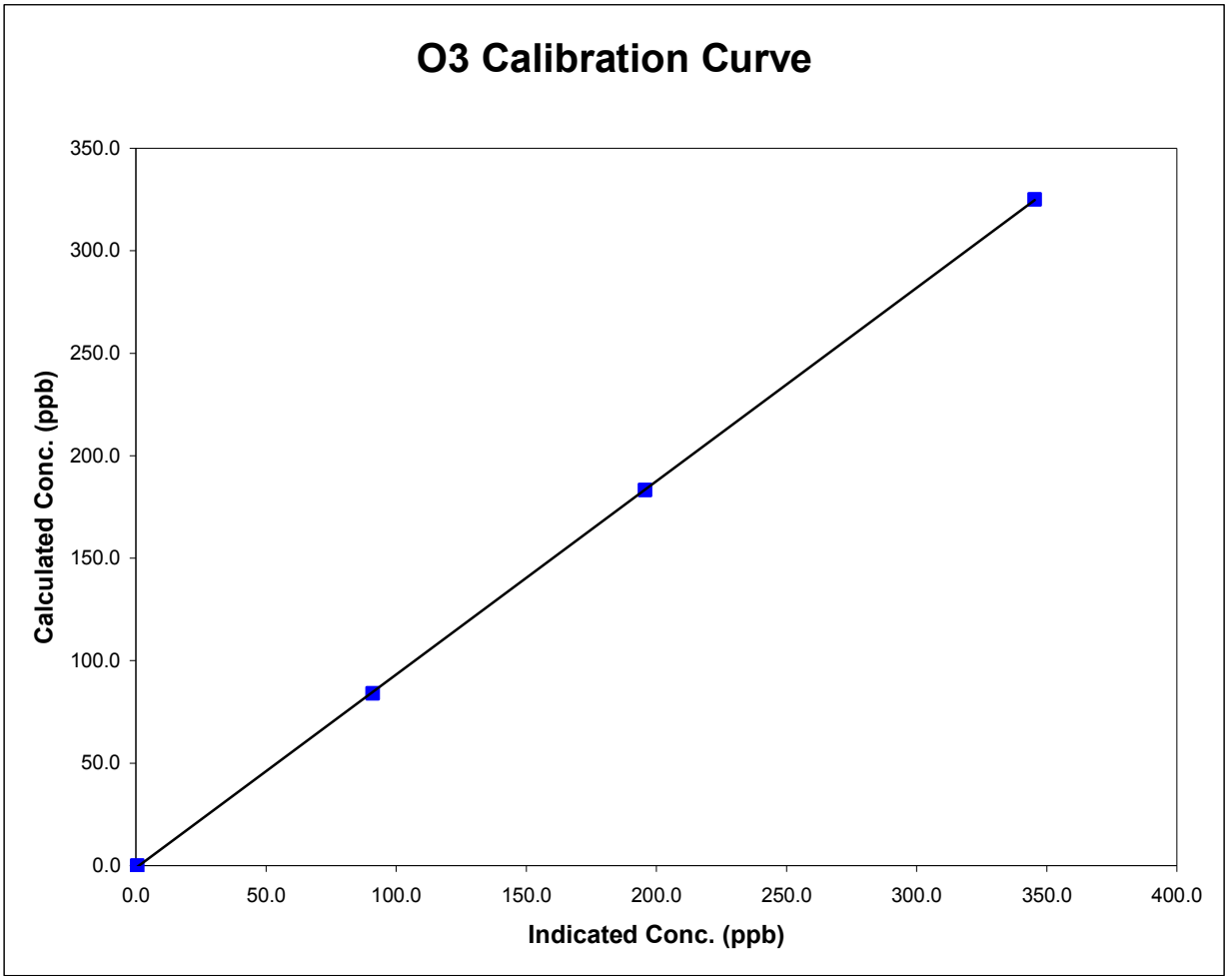
Air Monitoring Network **PASZA**

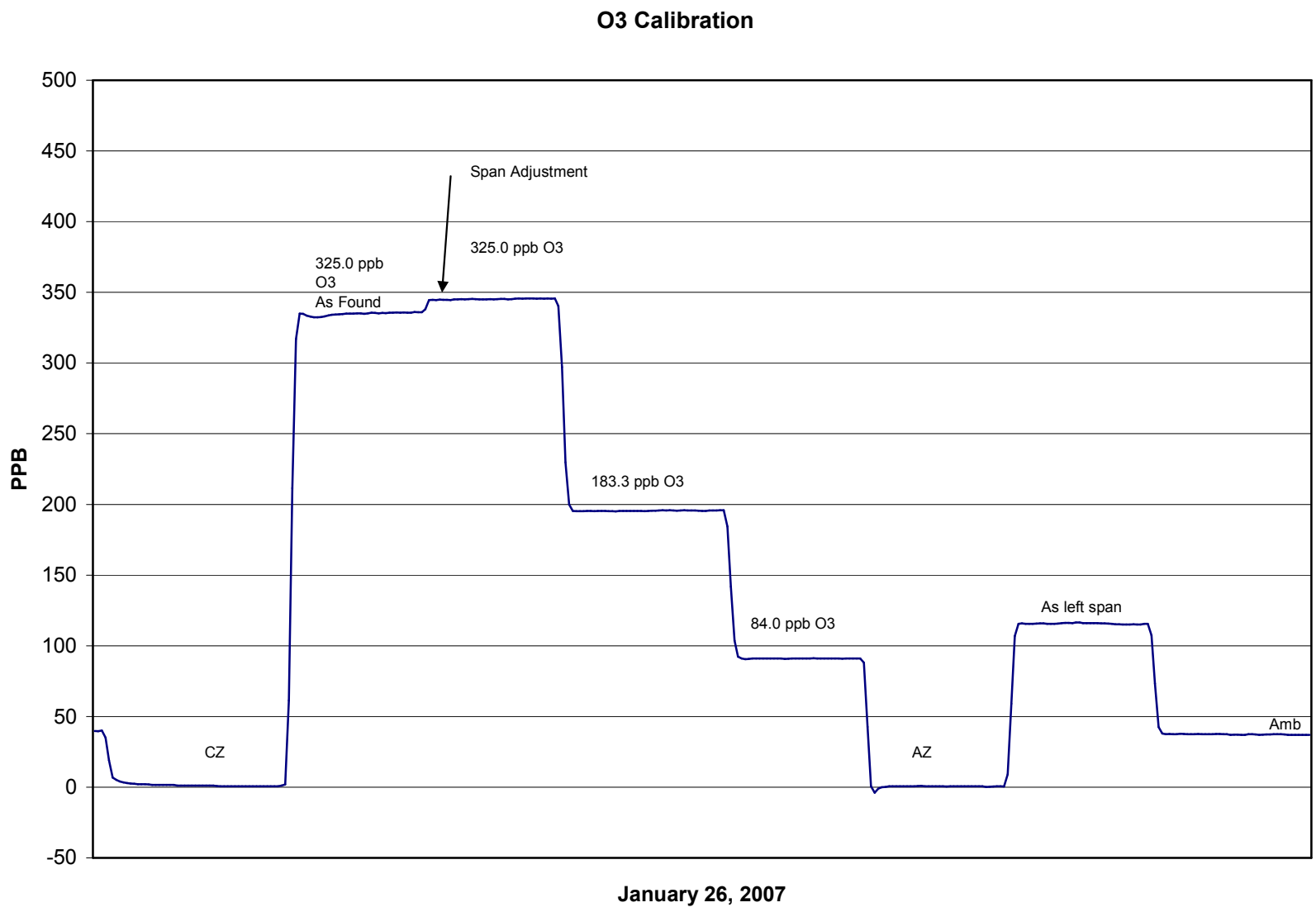
Station Information

Calibration Date	January 26, 2007	Previous Calibration	December 12, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	18:49	End Time (MST)	21:18
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	0.6	NA		
325.0	345.4	0.9410	Correlation Coefficient	0.999983
183.3	195.7	0.9367		
84.0	91.0	0.9231	Slope	0.943477
			Intercept	-1.148069




O3 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
Span Adjustment
325.0 ppb O3
325.0 ppb
O3
As Found
183.3 ppb O3
84.0 ppb O3
As left span
Amb
CZ
AZ
January 26, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 23, 2007	Previous Calibration	December 4, 2006
Station Number	1	Station Location	Portable - Falher
Reason: Routine	Install	Removal	Other:
Start Time (MST)	10:50	End Time (MST)	13:56
Barometric Pressure	27.6 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	0.938202	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	1.002861	Calculated slope	0.993989
Calculated intercept	0.454016	Calculated intercept	0.576242
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.4		7.9	
Coefficient	1.191		1.153	
UV Lamp voltage	760	V	753	V
Chamber Temperature	44.7	C	44.7	C
Perm gas Temp	45	C	45	C
Pressure	682.6	"Hg	711.6	"Hg
Sample Flow	491	LPM	505	LPM
Lamp Intensity	34000	Hz	34100	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	2345.5	0.0	-0.4	N/A
2500	2345.5	316.7	317.3	0.9982
5000	4691.0	158.3	161.3	0.9819
9000	8443.8	88.0	85.9	1.0237
zero	2345.5	0.0	-0.4	As Found Zero
2500	2345.5	316.7	328.1	As Found Span
			Average Correction Factor	1.0012

Calculated value of As Found Response: 329.895 ppm Percent Change of As Found: -4.2%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.2	ppm
Auto span	302.8	ppm	288.2	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

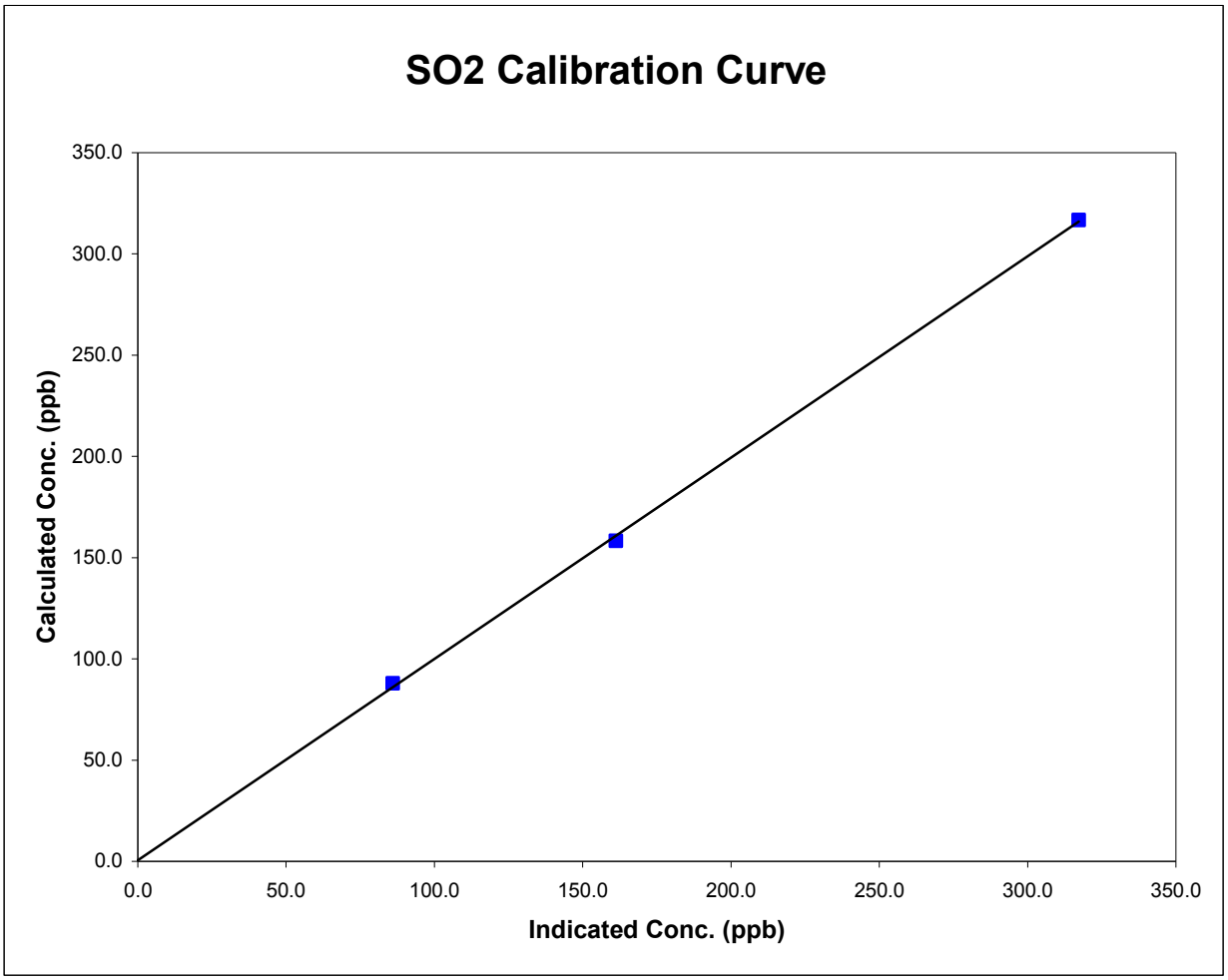
FOCUS AIR QUALITY MONITORING

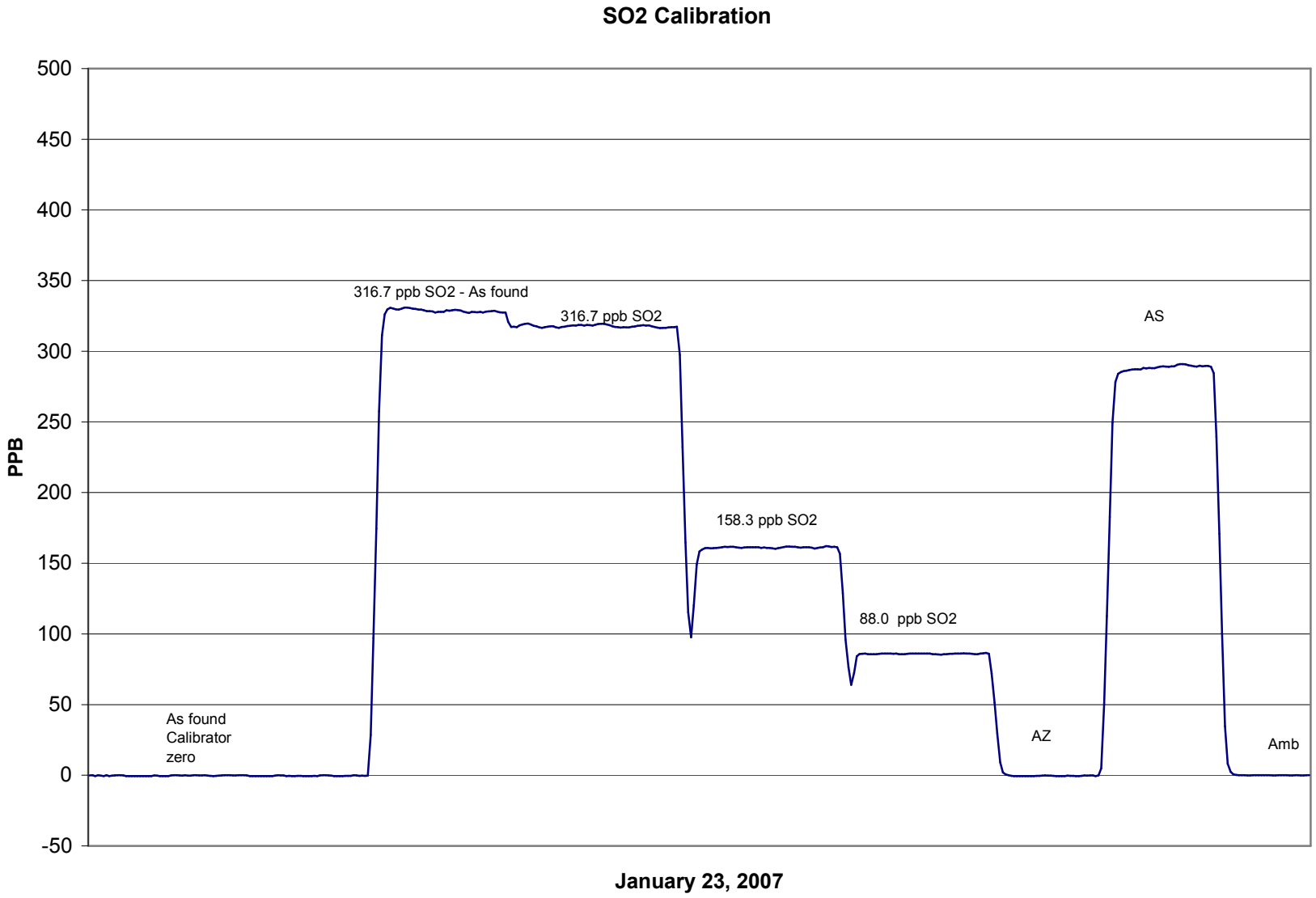
Station Information

Calibration Date	January 23, 2007	Previous Calibration	December 4, 2006
Station Number	1	Station Location	Portable - Falher
Start Time (MST)	10:50	End Time (MST)	13:56
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	-0.4	N/A		
316.7	317.3	0.9982	Correlation Coefficient	0.999798
158.3	161.3	0.9819		
88.0	85.9	1.0237	Slope	0.993989
			Intercept	0.576242




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
316.7 ppb SO2 - As found
316.7 ppb SO2
158.3 ppb SO2
88.0 ppb SO2
AS
As found
Calibrator
zero
AZ
Amb
January 23, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 23, 2007	Previous Calibration	December 4, 2006
Station Number	5	Station Location	Portable - Falher
Reason: Routine	Install	Removal	Other:
Start Time (MST)	10:50	End Time (MST)	13:56
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	6
	Before		After
Calculated slope	1.034056	Calculated slope	0.975299
Calculated intercept	0.222263	Calculated intercept	0.111236
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	10.2	ppb	9.9	ppb
coefficient	1.973		1.876	
Lamp Voltage	818	volts	814	volts
Chamber Temp	44.7	Deg C	43.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	682.6	mm Hg	694.1	mm Hg
Sample Flow	491	ccm	449	ccm
Lamp Intensity	34,000	mv	34,000	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	2406.5	0.0	0.2	N/A
2565	2406.5	70.2	72.0	0.9757
5000	4691.0	36.0	37.0	0.9745
9000	8443.8	20.0	19.8	1.0098
zero	2345.5	0.0	0.2	As Found Zero
2500	2345.5	72.0	74.5	As Found Span
			Average Correction Factor	0.9867

Calculated value of As Found Response: 77.02 ppm Percent Change of As Found: -6.9%

	before calibration		after calibration	
Auto zero	0.5	ppm	0.5	ppm
Auto span	89.8	ppm	87.3	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

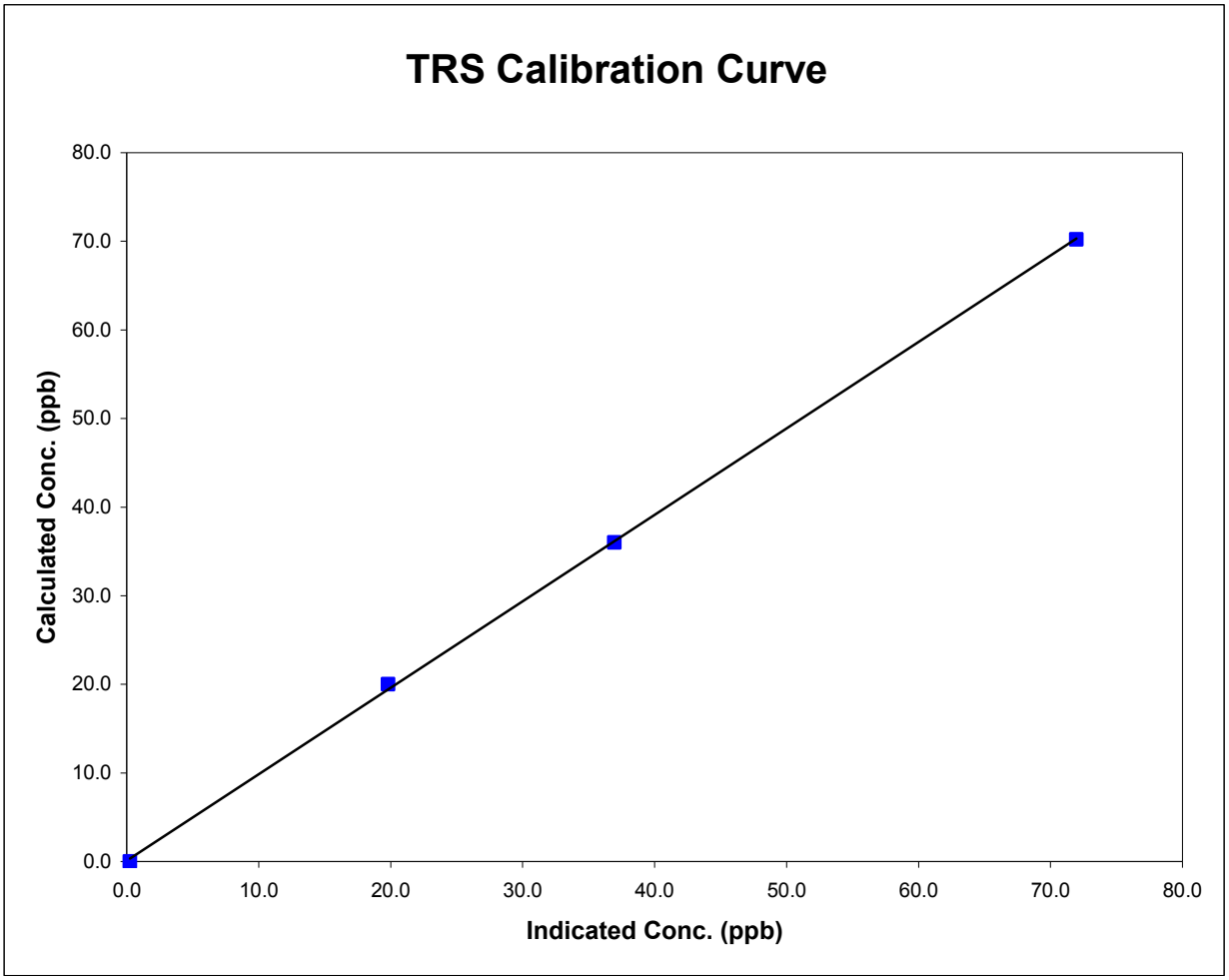
Air Monitoring Network **PASZA**

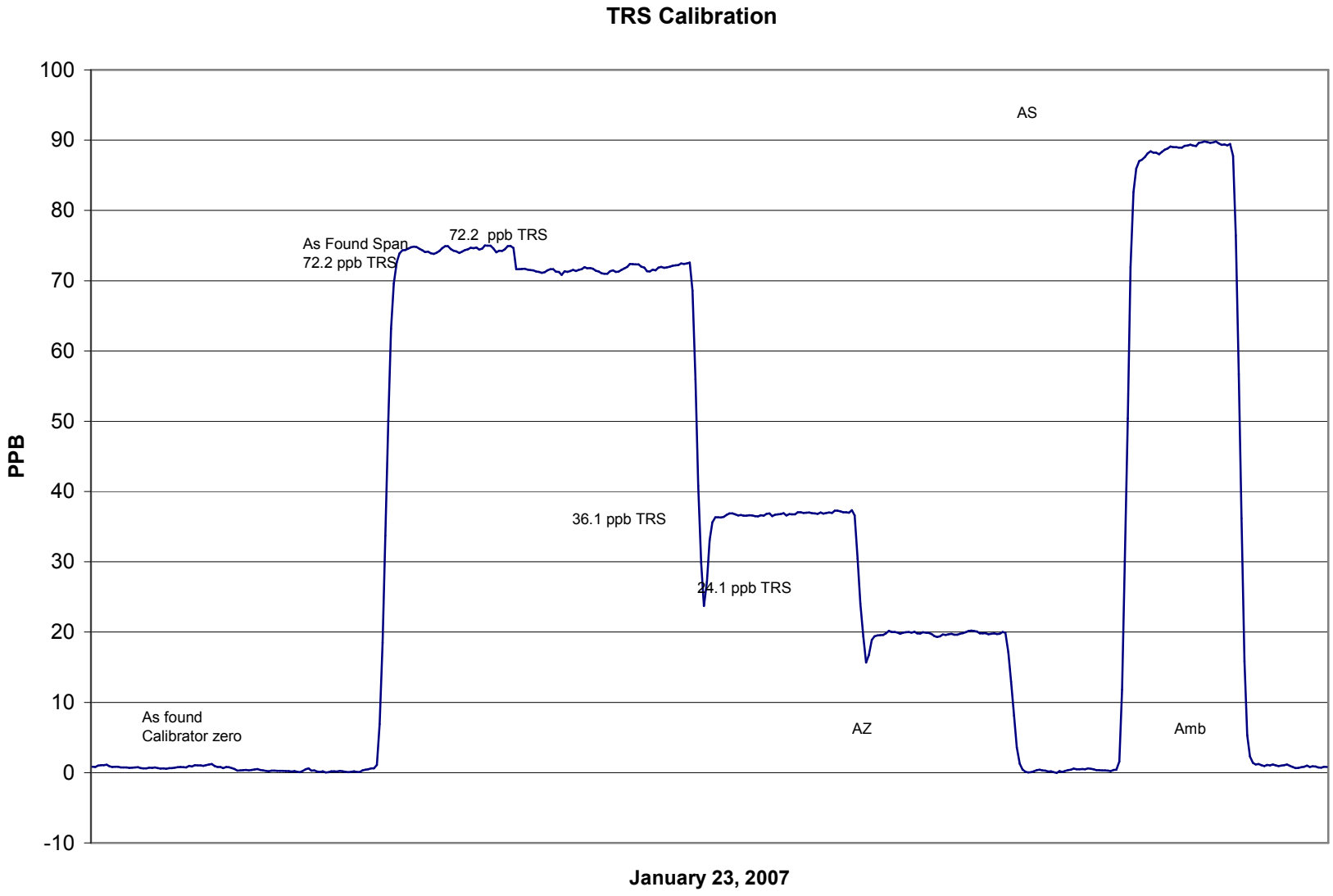
Station Information

Calibration Date	January 23, 2007	Previous Calibration	December 4, 2006
Station Number	5	Station Location	Portable - Falher
Start Time (MST)	10:50	End Time (MST)	13:56
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	0.2	N/A		
70.2	72.0	0.9757	Correlation Coefficient	0.999820
36.0	37.0	0.9745		
20.0	19.8	1.0098	Slope	0.975299
			Intercept	0.111236




TRS Calibration
PPB
100
90
80
70
60
50
40
30
20
10
0
-10
As found
Calibrator zero
As Found Span
72.2 ppb TRS
72.2 ppb TRS
36.1 ppb TRS
24.1 ppb TRS
AZ
AS
Amb
January 23, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter: O3

Air Monitoring Network: PASZA

Station Information

Calibration Date	January 30, 2007	Previous Calibration	December 4, 2006
Station Number	6	Station Location	Portable - Falher
Reason: Routine	Install	Removal	Other:
Start Time (MST)	12:40	End Time (MST)	16:40
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2488
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	7
	Before		After
Calculated slope	0.988165	Calculated slope	0.999001
Calculated intercept	1.628521	Calculated intercept	1.144721
Analyzer make	TEI 49C a3C1AB	Analyzer serial #	609716240

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.3		0.2	
slope	1.057		1.03	
Cell A	84300	mV	74470	mV
Cell B	83500	mV	74670	mV
Pressure	700.9	inches Hg	712	inches Hg
Cell A Flow	670	mL/min	676	mL/min
Cell B Flow	664	mL/min	677	mL/min

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)
4996	0.00	0.0	-0.1	N/A
4996	0.00	292.1	292.7	0.9979
4996	0.00	195.6	192.7	1.0151
4996	0.00	91.7	90.1	1.0174
4996	0.00	0.0	0.5	As found zero
4996	0.00	292.1	147.1	As found span
			Average Correction Factor	1.0102

Calculated value of As Found Response: 146.5 ppm Percent Change of As Found: -49.8%

	before calibration		after calibration	
Auto zero	3.4	ppb	1.8	ppb
Auto span	347.6	ppb	320.6	ppb

Notes: Adjusted zero and span.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

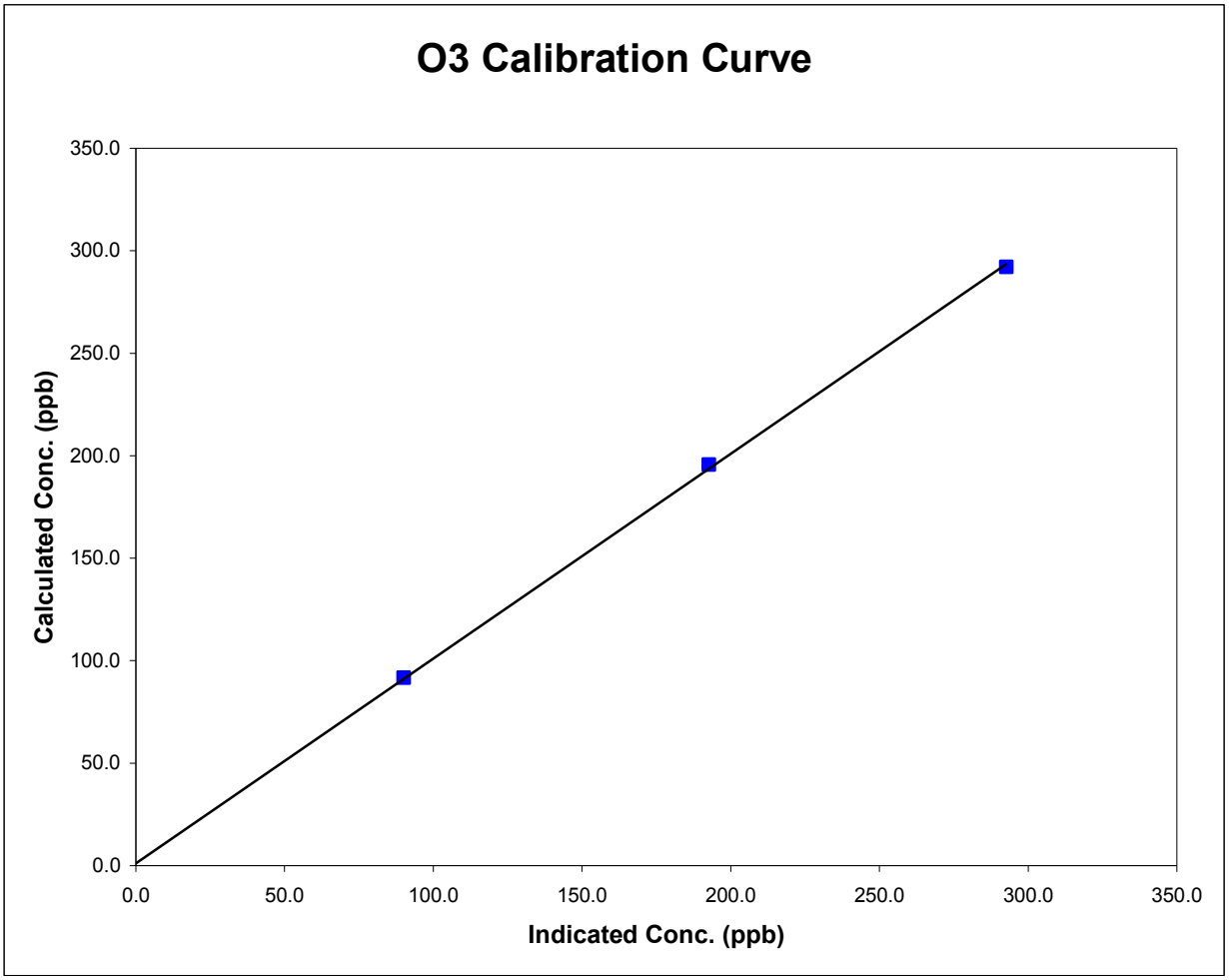
FOCUS AIR QUALITY MONITORING

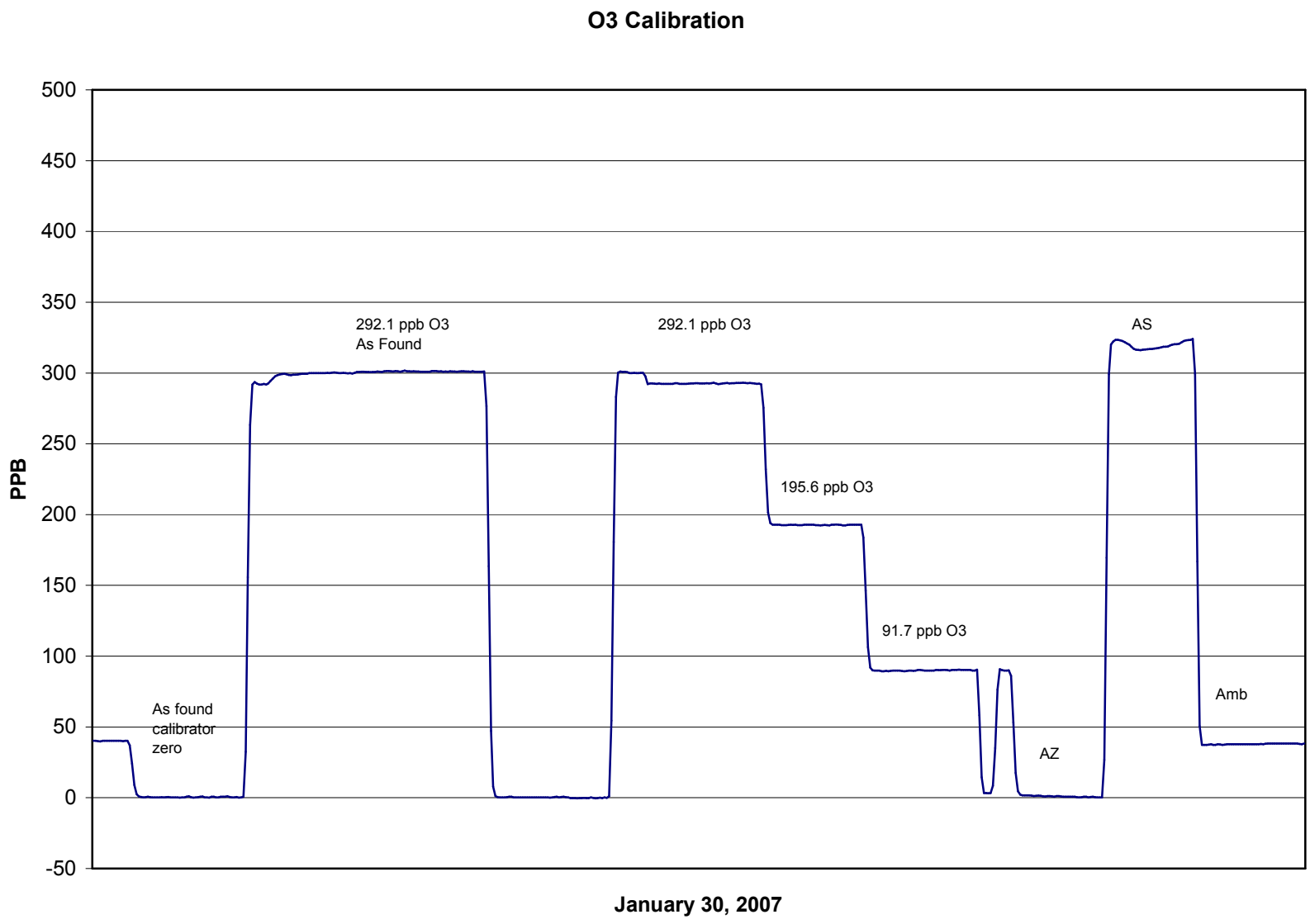
Station Information

Calibration Date	January 30, 2007	Previous Calibration	December 4, 2006
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	12:40	End Time (MST)	16:40
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	-0.1	NA		
292.1	292.7	0.9979	Correlation Coefficient	0.999848
195.6	192.7	1.0151		
91.7	90.1	1.0174	Slope	0.999001
			Intercept	1.144721




O3 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
292.1 ppb O3
As Found
292.1 ppb O3
AS
195.6 ppb O3
91.7 ppb O3
Amb
As found
calibrator
zero
AZ
January 30, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 22, 2007	Previous Calibration	December 7, 2006
Station Number	5	Station Location	Valleyview
Reason: Routine	Install	Removal	Other:
Start Time (MST)	12:45	End Time (MST)	16:14
Barometric Pressure	27.6 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	0.938202	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	0.983565	Calculated slope	0.936556
Calculated intercept	1.152236	Calculated intercept	1.461111
Analyzer make	Monitor Labs	Analyzer serial #	332

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	325	ccm	300	ccm
Span Pot	330		170	
Zero Pot	88		334	
T1	98	%	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	2500.3	0.0	-2.0	N/A
2665	2500.3	297.1	315.0	0.9430
5075	4761.4	156.0	166.4	0.9377
9000	8443.8	88.0	92.0	0.9560
zero	2345.5	0.0	-2.0	As Found Zero
2500	2345.5	316.7	273.8	As Found Span
			Average Correction Factor	0.9456

Calculated value of As Found Response: 272.324 ppm Percent Change of As Found: 14.0%

	before calibration		after calibration	
Auto zero	1.3	ppm	1.2	ppm
Auto span	581.3	ppm	618.1	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

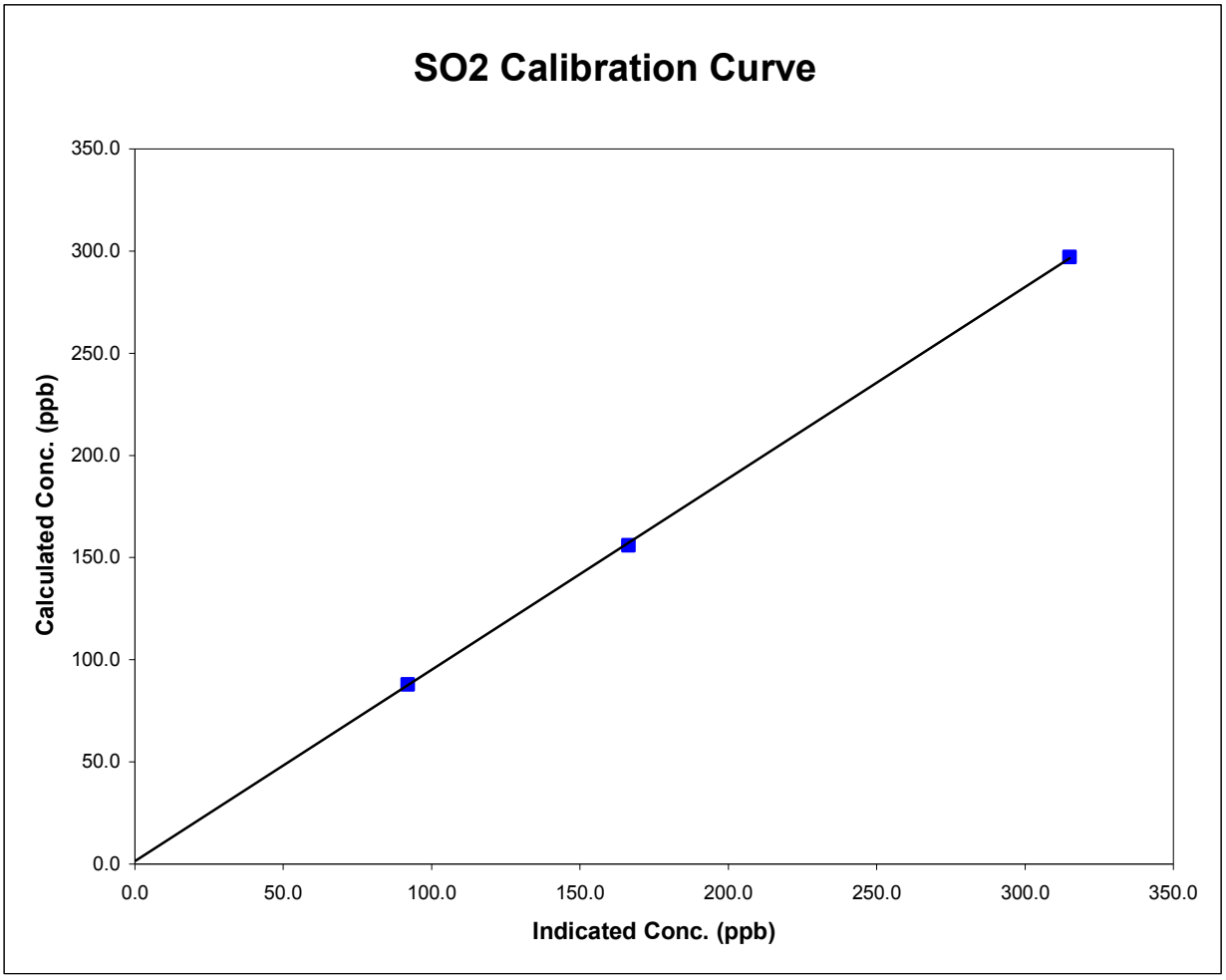
Air Monitoring Network **PASZA**

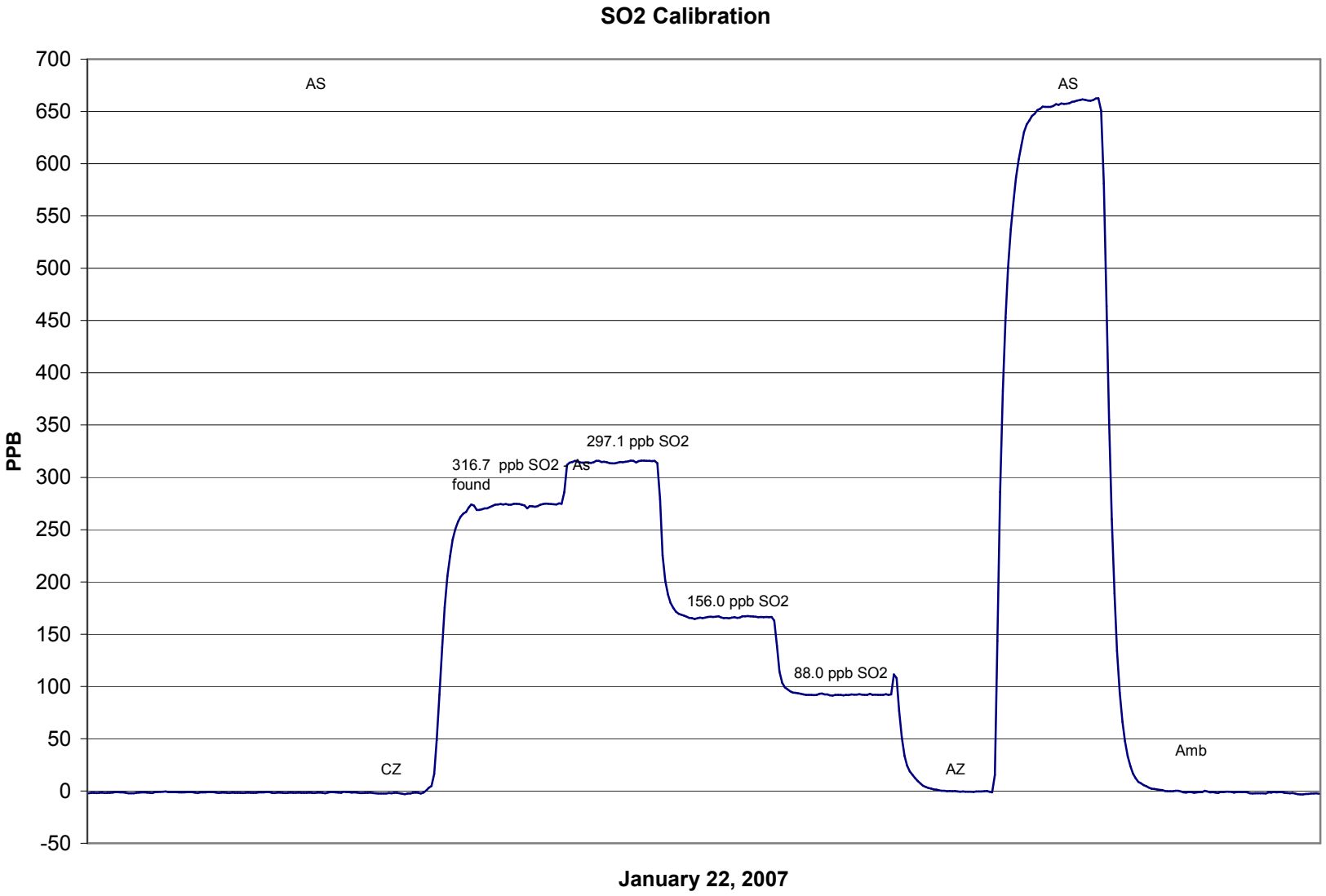
Station Information

Calibration Date	January 22, 2007	Previous Calibration	December 7, 2006
Station Number	5	Station Location	Valleyview
Start Time (MST)	12:45	End Time (MST)	16:14
Analyzer make/model	Monitor Labs	Analyzer serial #	332

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.0	N/A		
297.1	315.0	0.9430	Correlation Coefficient	0.999953
156.0	166.4	0.9377		
88.0	92.0	0.9560	Slope	0.936556
			Intercept	1.461111




SO2 Calibration
PPB
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
AS
AS
297.1 ppb SO2
316.7 ppb SO2 As found
156.0 ppb SO2
88.0 ppb SO2
CZ
AZ
Amb
January 22, 2007

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **H2S**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	January 22, 2007	Previous Calibration	December 7, 2006
Station Number	5	Station Location	Valleyview
Reason: Routine	Install	Removal	Other:

Start Time (MST)	12:45	End Time (MST)	16:14
Barometric Pressure	27.60 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	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.003096	Calculated slope	0.978039
Calculated intercept	0.170187	Calculated intercept	-0.650929

Analyzer make	TECO 43C	Analyzer serial #	45C-57351-313

	before		after	
Concentration range	100	ppb	100	ppb
Background	33.7	ppb	37.4	ppb
coefficient	0.917		1.032	
Lamp Voltage	692	volts	692	volts
Chamber Temp	44.6	Deg C	44.8	Deg C
Pressure	627.9	mm Hg	633.5	mm Hg
Sample Flow	467	ccm	469	ccm
Lamp Intesity	45,000	mv	45,600	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	2406.5	0.0	0.3	N/A
2565	2406.5	70.2	72.1	0.9738
5075	4761.4	35.5	37.5	0.9452
9000	8443.8	20.0	21.3	0.9409
zero	2345.5	0.0	0.3	As Found Zero
2500	2345.5	72.0	65.0	As Found Span
			Average Correction Factor	0.9533

Calculated value of As Found Response: 65.12 ppm Percent Change of As Found: 9.6%

	before calibration		after calibration	
Auto zero	0.1	ppm	-0.4	ppm
Auto span	71.9	ppm	83.1	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **H2S**

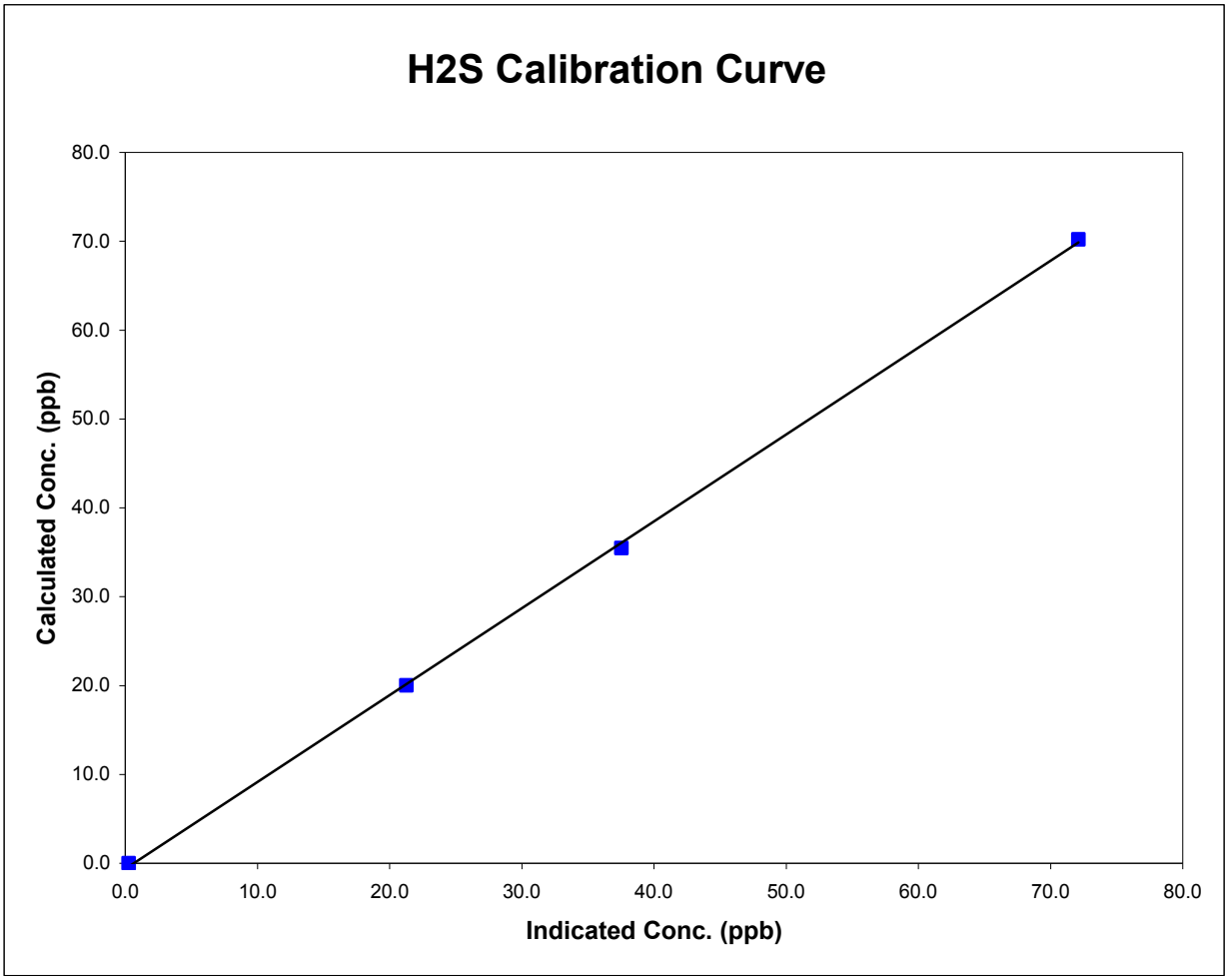
Air Monitoring Network **PASZA**

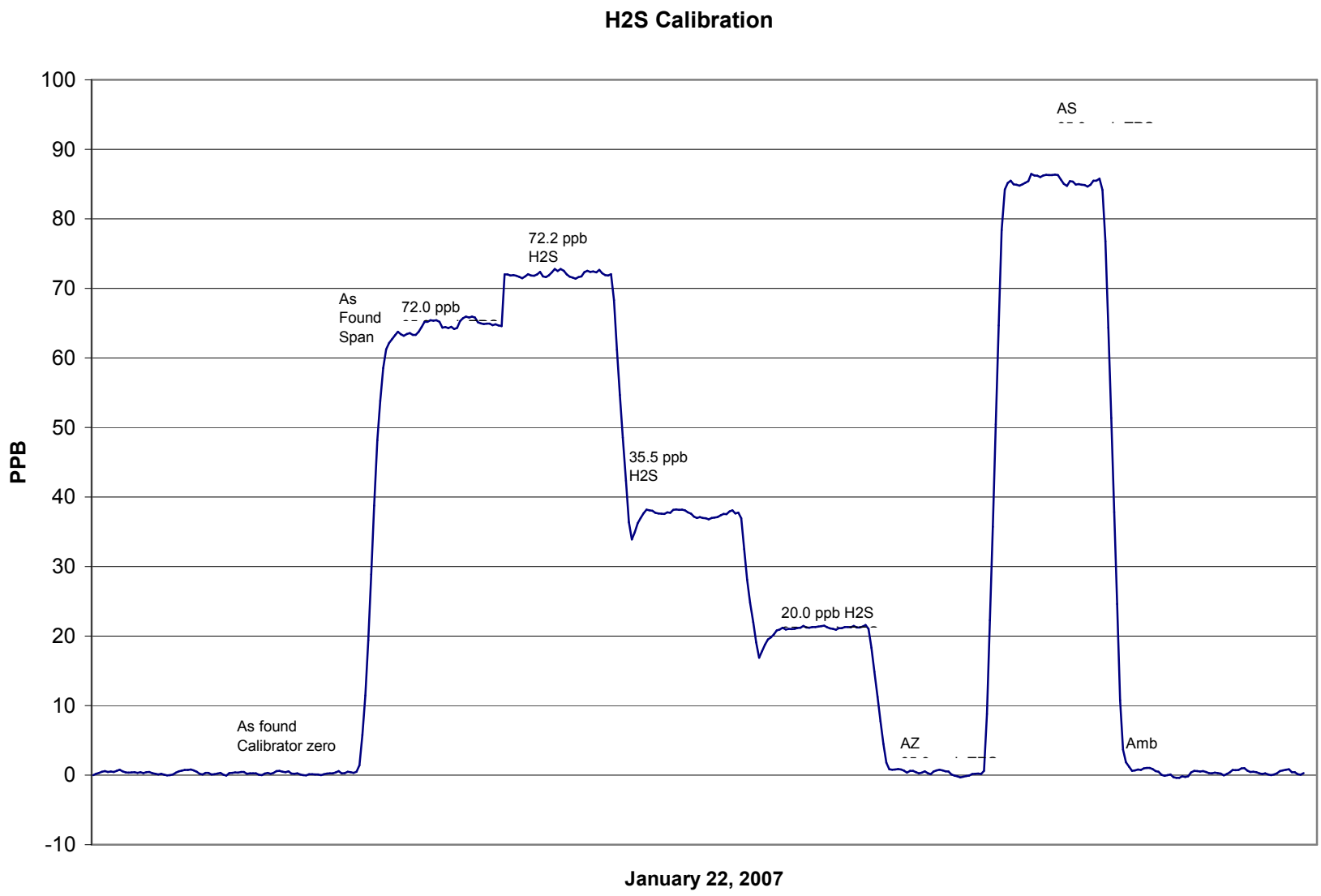
Station Information

Calibration Date	January 22, 2007	Previous Calibration	December 7, 2006
Station Number	5	Station Location	Valleyview
Start Time (MST)	12:45	End Time (MST)	16:14
Analyzer make/model	TECO 43C	Analyzer serial #	45C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
70.2	72.1	0.9738	Correlation Coefficient	0.999764
35.5	37.5	0.9452		
20.0	21.3	0.9409	Slope	0.978039
			Intercept	-0.650929




H2S Calibration
100
90
80
70
60
50
40
30
20
10
0
-10
PPB
As found
Calibrator zero
As
Found
Span
72.0 ppb
72.2 ppb
H2S
35.5 ppb
H2S
20.0 ppb H2S
AZ
AS
Amb
January 22, 2007