



Air Quality Monitoring Network for January 2006

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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

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

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

Continuous Monitoring: Four (4) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights and Beaverlodge

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 guidelines.

Of noted occurrence was excessive calm periods of the wind speed sensors throughout the network during the early periods of January (Downtime Report Ref # 167112). This was caused by frost as a result of meteorological conditions throughout the area and was only noted at the Henry Pirker and Evergreen Park trailers. The TEOM analyzer (PM2.5 sensor) at Smoky Heights also was in excess of 10% downtime (Downtime Report Ref # 167915) due to an improperly latched filter seal. All other analyzers / sensors were above 97% uptime.

Passive Monitoring: 43 Stations throughout the PASZA zone:

No problems were observed with any of the sampling sites for the month of January 2005.

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

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.7 ppb.
- Monthly average concentrations for NO₂ passives ranged from 1.3 ppb to 18.6 ppb.
- Monthly average concentrations for O₃ passives ranged from 8.1 ppb to 32.3 ppb.

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

On Behalf of the,
Peace Airshed Zone Association

Kevin Warren
PASZA Technical Program Manager

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

January 6, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 167112

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the months of December 2005 and January 2006 for all four continuous sites for the wind speed parameter. This situation occurred at the Henry Pirker (located in Grande Prairie), Smoky Heights (located NE of Teepee Creek), Evergreen Park (located SE of Grande Prairie) and Beaverlodge (located on the East edge of Beaverlodge) stations. The wind speed sensors at all these locations were frozen due to freezing rain that began approximately December 24, 2005 and kept the sensors frozen until January 4, 2006. Attempts were made during this time period to free the anemometers by physically moving the cups, sharp vibrations to "break the ice", and the use of a heat gun to melt the ice. Some success was achieved, but the wind speed parameter will be less than 90% for both months for all stations. The stations are owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 167112.

Long term solutions to this problem will be discussed with the PASZA technical committee, and solutions implemented will be communicated to AENV as they are proposed.

If there are any questions or concerns please call me at your convenience.

Sincerely,

THE FOCUS CORPORATION



Gary Cross
AQM Technical Manager

January 16, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 166636

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was non functional daily zero/span cycle for the NO2 analyzer at the Beaverlodge located on the East edge of the town of Beaverlodge. This situation occurred due to a failed switching valve. A new valve was ordered and will be received this week. When it is received, it will be installed and tested immediately. This station is owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 166636.

Long term solutions to this problem are to keep spare valves locally in the event this occurs in the future. Spare valves have been ordered with the current order.

If there are any questions or concerns please call me at your convenience.

Sincerely,

THE FOCUS CORPORATION



Gary Cross
AQM Technical Manager

February 16, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 167915

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of January 2006 for the PM_{2.5} monitor (R&P TEOM 1400ab). This situation occurred at the Smoky Heights station located NE of Teepee Creek. The operator had performed monthly calibrations on January 27th and had replaced the main filter in the TEOM monitor. The door to the sensor unit was not properly latched, which resulted in the inability of the monitor to stabilize. This problem was identified and corrected on February 1, 2006. The data for this period was flagged out during the QA/QC process for the monthly report. This station is owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 167915.

An operating protocol has been established with all FOCUS technicians to ensure all analyzer (TEOM and other analyzers) conditions have stabilized before leaving ambient air quality stations.

If there are any questions or concerns please call me at your convenience at (403) 510-6557.

Sincerely,

THE FOCUS CORPORATION



Kelly Baragar
AQM Technical Supervisor

PASZA Monthly Continuous Data Summary

Jan-2006 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr			24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.8	0	0	6.1	Jan-30 14:00	5.4	WNW	2.0	Jan-17	100.0%
NO (ppb)			Henry Pirker	36.4	-	-	308.0	Jan-21 19:00	4.2	E	110.2	Jan-03	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	18.8	0	0	51.9	Jan-26 08:00	5.1	NNE	29.0	Jan-10	100.0%
NO _x (ppb)			Henry Pirker	55.5	-	-	353.9	Jan-21 19:00	4.2	E	130.7	Jan-03	100.0%
O ₃ (ppb)	82		Henry Pirker	9.4	0	-	46.1	Jan-23 15:00	24.9	WNW	36.4	Jan-23	100.0%
O ₃ (ppb) - 8-hr	65		Henry Pirker		0						43.4	Jan-23	
CO (ppm)	13		Henry Pirker	0.45	0	-	3.4	Jan-21 19:00	4.2	E	0.9	Jan-02	100.0%
CO (ppm) - 8-hr	5		Henry Pirker		0						1.6	Jan-03	
THC (ppm)			Henry Pirker	2.48	-	-	4.0	Jan-02 20:00	ND	NE	3.3	Jan-02	100.0%
TRS (ppb)			Henry Pirker	0.4	-	-	1.6	Jan-11 19:00	3.8	WNW	0.7	Jan-11	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	7.8		0	39.8	Jan-01 12:00	ND	NNW	16.6	Jan-02	98.0%
RH (%)			Henry Pirker	77.1	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Henry Pirker	33.0	-	-	-	-	-	-	-	-	97.7%
Temp (°C)			Henry Pirker	-8.4	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Henry Pirker	6.5	-	-	48.3	Jan-22 23:00	48.3	WSW	23.7	23-Jan	86.0%
WSPD s (km/hr)			Henry Pirker	7.0	-	-	48.4	Jan-22 23:00	48.4	WSW	25.5	23-Jan	86.0%
WDIR (Deg)			Henry Pirker	N	-	-	-	-	-	-	-	-	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.8	0	0	6.7	Jan-17 10:00	3.7	SW	2.0	Jan-12	100.0%
TRS (ppb)			Evergreen Park	0.9	-	-	2.8	Jan-31 10:00	2.2	NNW	1.4	Jan-16	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	6.9		0	39.5	Jan-25 17:00	2.6	NW	16.1	Jan-01	98.0%
Temp (°C)			Evergreen Park	-8.9	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Evergreen Park	5.5	-	-	51.3	Jan-23 01:00	51.3	WSW	17.3	23-Jan	84.4%
WSPD s (km/hr)			Evergreen Park	5.8	-	-	51.5	Jan-23 01:00	51.5	WSW	22.8	23-Jan	84.4%
WDIR (Deg)			Evergreen Park	N	-	-	-	-	-	-	-	-	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.5	0	0	6.7	Jan-24 21:00	13.4	SW	1.2	Jan-24	100.0%
TRS (ppb)			Smoky Heights	0.8	-	-	2.0	Jan-29 14:00	15.1	W	1.1	Jan-11	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	5.8		0	44.2	Jan-20 17:00	8.5	NNE	14.7	Jan-14	84.9%
Temp (°C)			Smoky Heights	-8.7	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Smoky Heights	9.7	-	-	51.9	Jan-22 00:00	51.9	W	28.4	23-Jan	100.0%
WSPD s (km/hr)			Smoky Heights	9.9	-	-	51.9	Jan-22 00:00	51.9	W	31.3	23-Jan	100.0%
WDIR (Deg)			Smoky Heights	N	-	-	-	-	-	-	-	-	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.6	0	0	2.7	Jan-19 10:00	1.1	NW	1.8	Jan-19	100.0%
NO (ppb)			Beaverlodge	4.0	-	-	81.2	Jan-16 11:00	calm	SE	18.2	Jan-20	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	9.9	0	0	28.3	Jan-13 21:00	6.0	SE	20.3	Jan-20	97.3%
NO _x (ppb)			Beaverlodge	13.9	-	-	97.2	Jan-16 11:00	calm	SE	38.6	Jan-20	100.0%
O ₃ (ppb)	82		Beaverlodge	20.0	0	-	46.5	Jan-23 17:00	25.8	NW	43.1	Jan-23	99.5%
O ₃ (ppb) - 8-hr	65		Beaverlodge		0						45.7	Jan-23	
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	4.3		0	34.6	Jan-28 22:00	6.3	NNW	11.2	Jan-15	98.3%
RH (%)			Beaverlodge	77.8	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Beaverlodge	-6.4	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Beaverlodge	6.8	-	-	47.5	Jan-23 06:00	47.5	W	26.4	23-Jan	100.0%
WSPD s (km/hr)			Beaverlodge	6.8	-	-	47.5	Jan-23 06:00	47.5	W	27.7	23-Jan	100.0%
WDIR (Deg)			Beaverlodge	N	-	-	-	-	-	-	-	-	100.0%

Note: ^a the draft 1-hr Alberta Ambient Air Quality Objectives
 * Wind Direction is the predominate direction for the Month

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

No general station issues noted during the month of January.

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational problems observed.
NO _x /NO/NO ₂	TECO	42C	No operational problems observed.
O ₃	API	400	No operational problems observed.
CO	TECO	48C	No operational problems observed. Internal daily spans were low between Jan 11 – 13 th and on Jan 17 th due to a slightly low setting of the span cylinder pressure.
THC	TEI	51-CLT	No operational problems observed. Internal daily spans were low between Jan 24 – 30 th due to slightly low span cylinder pressure settings.
TRS	TEI	42C	No operational problems observed.
PM _{2.5}	R&P	1400AB	Fifteen (15) hours were removed due to excessive baseline drift. No other operational problems observed.
RH	Met One	083D	No operational problems observed.
AT	Met One	083D	No operational problems observed.
SR	Met One	096-1	Seventeen (17) hours were removed due to excessive baseline drift. No other operational problems observed.
WS	Met One	010C	The sensor was not operational from Jan 1 st at 00:00 to Jan 4 th 13:00 MST and sporadically throughout Jan 5 th due to frost. No other operational problems observed.
WD	Met One	020C	No operational problems observed.

PASZA – Evergreen Park Station

General Station Issues

No general station issues noted during the month of January.

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	Fifteen (15) hours were removed due to excessive baseline drift. No other operational issues observed.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	The sensor was not operational from Jan 1 st at 00:00 to Jan 5 th 13:00 MST due to frost. No other operational problems observed.
WD	Met One	020C	The sensor was not operational from Dec 24 th at 18:00 MST to end of month due to frost.

PASZA – Smoky Heights School Station

General Station Issues

No general station issues noted during the month of January.

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	Seven (7) hours were removed due to excessive baseline drift. Proceeding the calibration on Jan 27 th all data was flagged out due to stabilization issues (from Jan 27 th at 15:00 MST to end of month).
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

No general station issues noted during the month of December.

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	No operational problems observed.
NO _x /NO/NO ₂	TECO	42C	During the calibration on Jan 10 th it was observed that NO ₂ reaction was not stable; the analyzer was flagged down until Jan 11 th whereas a new mode valve repaired the issue. A final calibration was completed Jan 13 th . No other operational issues observed.
O ₃	API	400	Two (2) additional hours were flagged on Jan 10 th and 11 th (for a total of four hours) to confirm O ₃ generation through the calibrator. No other operational problems observed.
PM _{2.5}	R&P	1400AB	Thirteen (13) hours were removed due to excessive baseline drift. No other operational issues observed.
AT	n/a	n/a	No operational problems observed.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	Thirty seven (37) hours of data were removed due to calm wind conditions. No other operational issues observed.
WD	Blue Sky	857	Two (2) hours were flagged due to DACS maintenance.

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, 2006 to February 1, 2006

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

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

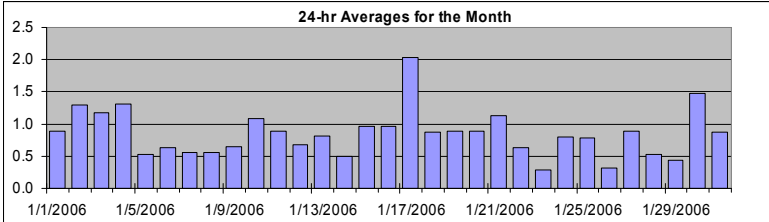
Monitoring Dates: January 1, 2006 to February 1, 2006

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	6.1 ppb 30-Jan 14:00 15:00
Maximum 24-hr Average:	2.0 ppb 17-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
	3.1	1.9	1.1	0.7	0.5	0.2	0.1	0.8 ppb	0.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jan-06	0:00	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	1.4
2-Jan-06	1:00	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	3	2	2	1	1.3	2.6
3-Jan-06	2:00	0	A	0	1	1	1	1	1	1	2	1	1	1	1	1	1	2	3	2	2	2	1	1	1.2	2.6
4-Jan-06	3:00	A	0	1	1	1	0	1	1	1	1	1	2	3	3	1	1	2	2	2	1	1	1	A	1.3	3.5
5-Jan-06	4:00	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	0	A	0.5	1.2
6-Jan-06	5:00	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	1	1	0	0	1	1	A	1	0.6	1.5
7-Jan-06	6:00	0	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	A	0	0	0.6	0.8
8-Jan-06	7:00	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	A	1	0	1	1	0.6	1.1
9-Jan-06	8:00	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	A	1	0	0	0.6	1.0
10-Jan-06	9:00	0	0	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	A	1	2	2	2	1	1.1	2.3
11-Jan-06	10:00	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	2	2	1	1	1	0	0.9	1.8
12-Jan-06	11:00	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	0.7	1.2
13-Jan-06	12:00	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	1	1	0.8	1.3
14-Jan-06	13:00	0	0	0	0	0	0	1	1	1	0	0	0	1	A	1	0	0	0	1	1	1	1	1	0.5	0.7
15-Jan-06	14:00	1	1	1	1	1	1	1	1	0	0	1	1	A	2	2	2	2	1	1	1	1	1	1	1.0	1.9
16-Jan-06	15:00	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1.0	2.1
17-Jan-06	16:00	2	1	1	1	2	A	2	2	2	3	4	4	3	4	3	3	2	2	2	1	1	1	1	2.0	4.1
18-Jan-06	17:00	1	1	1	1	1	A	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.9	1.7
19-Jan-06	18:00	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
20-Jan-06	19:00	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	1.3
21-Jan-06	20:00	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	1	1	1.1	2.9
22-Jan-06	21:00	1	A	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0.6	1.1
23-Jan-06	22:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0.3	0.7
24-Jan-06	23:00	0	0	0	0	0	A	0	0	1	1	1	1	2	2	1	0	1	0	0	0	1	2	2	0.8	1.9
25-Jan-06	0:00	1	0	0	0	A	0	0	0	1	1	1	1	2	2	1	1	1	2	2	0	0	0	0	0.8	1.8
26-Jan-06	1:00	0	0	0	A	0	0	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	1.8
27-Jan-06	2:00	0	0	A	0	1	2	2	1	0	1	1	1	0	2	2	1	1	1	1	1	1	1	1	0.9	2.0
28-Jan-06	3:00	1	A	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.1
29-Jan-06	4:00	A	1	0	0	0	0	0	0	1	1	0	1	1	0	0	0	1	0	1	0	0	1	1	0.4	0.8
30-Jan-06	5:00	1	1	1	1	1	0	0	0	1	1	1	1	2	4	6	4	3	2	2	1	1	1	A	1.5	6.1
31-Jan-06	6:00	0	0	0	0	0	1	1	1	1	1	1	C	C	C	A	2	2	1	2	1	1	1	1	0.9	2.2
Hourly Avg		0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.9	0.8	0.9	0.9	1.0	1.2	1.2	1.1	1.0	1.0	1.1	1.0	0.9	0.9	0.8	0.6	
Hourly Max		1.6	1.5	1.2	1.3	1.7	1.6	1.8	1.7	2.3	2.9	4.1	3.9	3.1	4.0	6.1	4.5	2.8	2.1	2.6	2.9	2.6	2.4	2.1	1.4	

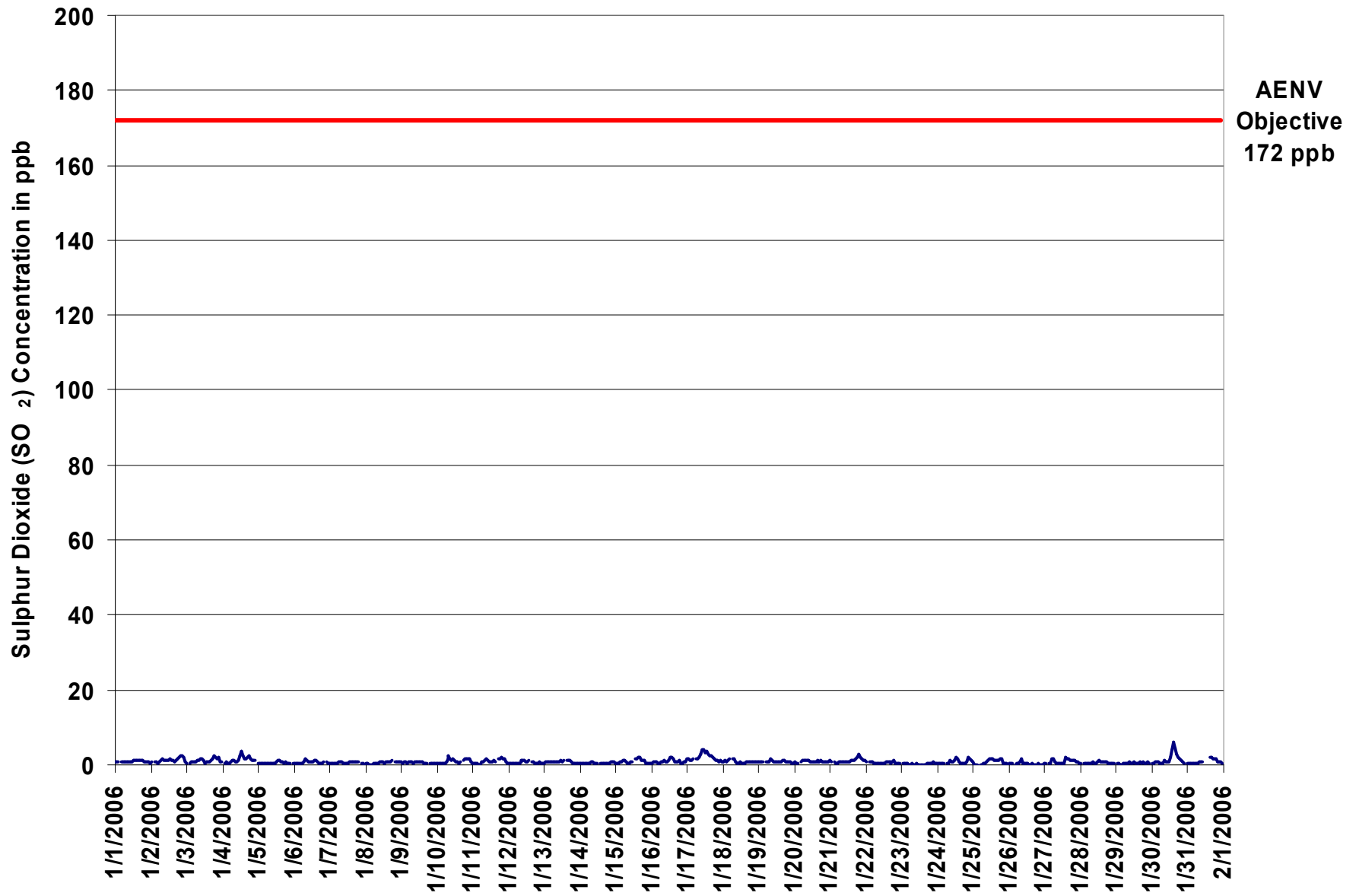


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

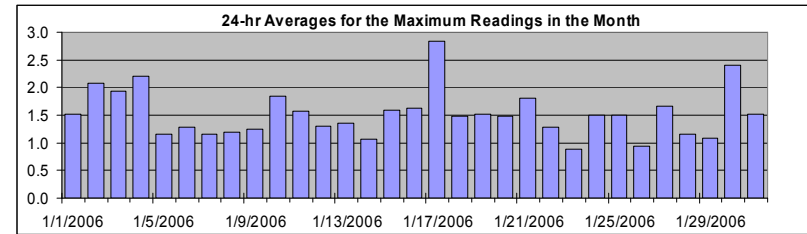
Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	7.8	ppb	30-Jan	14:00 15:00
Maximum 24-hr Value:	2.8	ppb	17-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
	4.8	2.8	1.7	1.3	1.1	0.7	0.6	1.5 ppb	1.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Jan-06	1	1	1	A	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	1	1.5	2.1	
2-Jan-06	1	1	A	1	1	1	1	3	3	2	2	2	2	3	2	2	1	2	3	3	3	3	3	2	2.1	3.3	
3-Jan-06	1	A	1	1	1	1	2	2	2	2	3	2	1	2	2	2	2	3	3	4	3	3	2	1	1.9	3.7	
4-Jan-06	A	1	1	1	1	1	2	2	2	1	1	2	5	5	4	2	2	3	3	3	2	2	A	1	2.2	5.1	
5-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	A	1	1.2	2.4	
6-Jan-06	1	1	1	1	1	1	1	2	2	2	1	1	1	1	2	2	1	1	1	1	1	A	1	1	1.3	2.5	
7-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1.2	1.6	
8-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	A	2	2	1	2	1.2	1.7	
9-Jan-06	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.2	2.2	
10-Jan-06	1	1	1	1	1	1	1	3	3	3	2	2	2	2	1	1	1	A	2	2	2	2	2	1	1.9	3.2	
11-Jan-06	1	1	1	1	1	1	2	2	2	2	2	1	1	2	2	2	A	2	2	3	2	2	1	1	1.6	2.6	
12-Jan-06	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	A	1	1	1	1	1	2	2	1	1.3	2.3	
13-Jan-06	1	1	2	2	1	1	1	2	1	1	1	2	1	2	A	2	2	2	1	1	1	1	1	1	1.4	1.9	
14-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.1	1.3	
15-Jan-06	1	1	1	1	1	2	2	2	1	1	1	1	A	2	2	3	2	2	2	2	1	1	1	1	1.6	2.6	
16-Jan-06	1	1	1	1	1	1	1	2	2	1	1	2	2	3	3	2	2	1	2	2	1	1	1	2	1.6	3.2	
17-Jan-06	2	2	2	2	2	A	2	3	3	5	5	5	4	5	4	3	3	3	2	2	2	2	2	1	2.8	5.4	
18-Jan-06	1	1	2	2	2	A	2	2	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1.5	2.4	
19-Jan-06	1	1	1	1	A	1	1	1	2	2	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1.5	2.4	
20-Jan-06	1	1	1	A	2	2	2	2	2	2	1	1	2	1	1	1	2	1	2	1	1	1	1	1	1.5	1.9	
21-Jan-06	2	1	A	1	1	1	2	1	1	1	1	1	2	2	2	2	2	2	3	4	3	2	2	2	1.8	3.7	
22-Jan-06	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	1	1	1.3	2.2	
23-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
24-Jan-06	1	1	1	1	1	A	1	1	2	2	1	2	3	2	2	1	1	1	1	1	2	4	2	2	1.5	3.8	
25-Jan-06	2	1	1	1	A	1	1	1	1	1	2	2	3	2	2	2	2	2	3	1	1	1	1	1	1.5	3.3	
26-Jan-06	1	1	1	A	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.5	
27-Jan-06	1	1	A	1	2	3	3	3	1	1	1	1	1	1	3	2	2	2	2	2	2	2	2	1	1.7	2.9	
28-Jan-06	1	A	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1.2	2.0	
29-Jan-06	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.1	2.0	
30-Jan-06	1	1	1	1	1	1	1	1	2	1	1	1	5	5	8	7	4	3	2	2	2	1	1	A	1	2.4	7.8
31-Jan-06	1	1	1	1	1	1	1	1	2	1	1	C	C	C	A	3	2	2	2	2	2	2	1	1	1.5	2.9	
Hourly Avg	1.2	1.1	1.2	1.1	1.2	1.2	1.4	1.6	1.6	1.6	1.5	1.5	1.9	1.9	2.0	1.8	1.7	1.7	1.8	1.8	1.5	1.6	1.4	1.2			
Hourly Max	2.3	2.2	2.2	2.4	2.1	2.7	2.6	2.8	3.2	5.4	5.2	4.6	5.1	5.4	7.8	6.8	4.1	2.9	3.4	3.7	3.3	3.8	2.9	2.1			

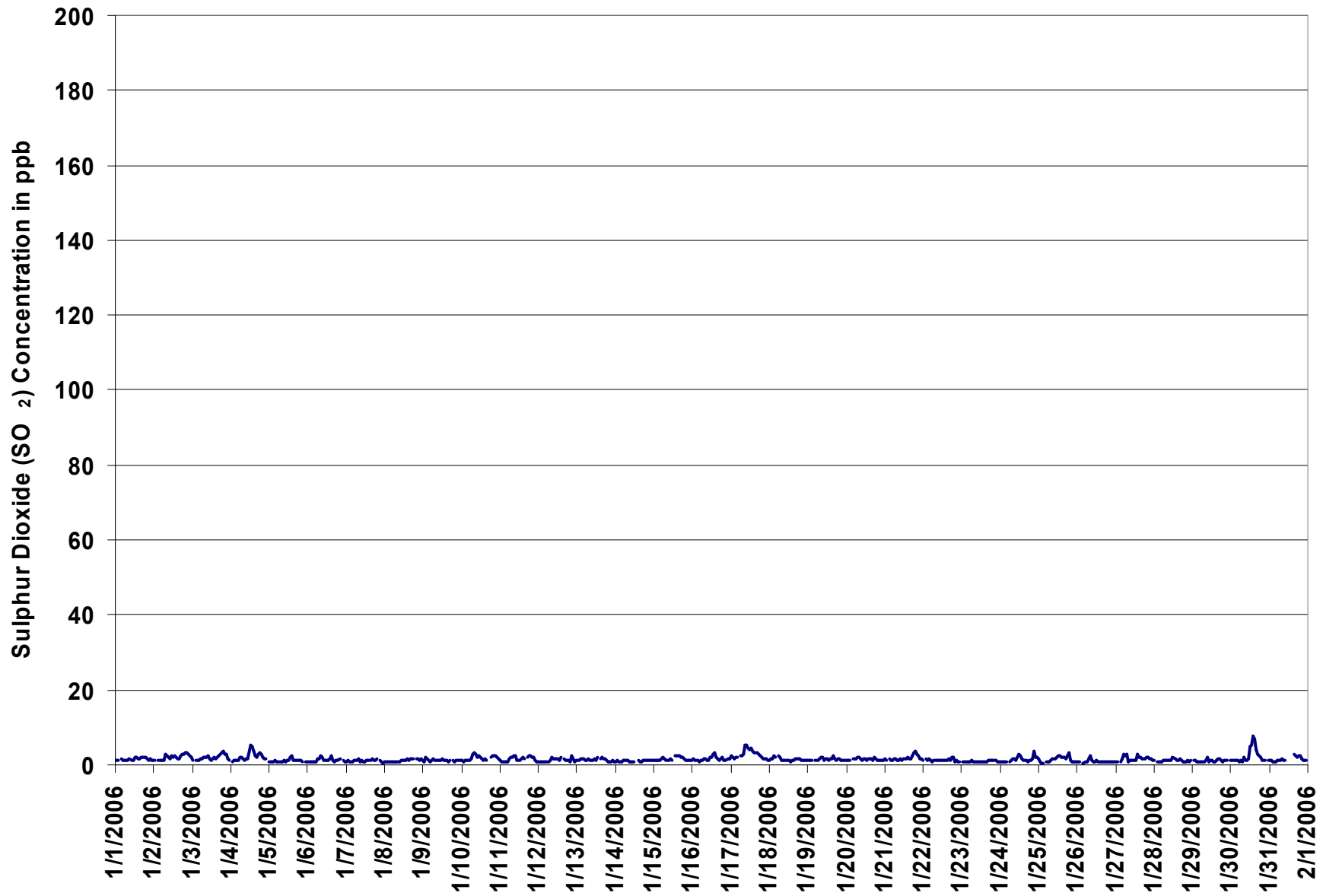
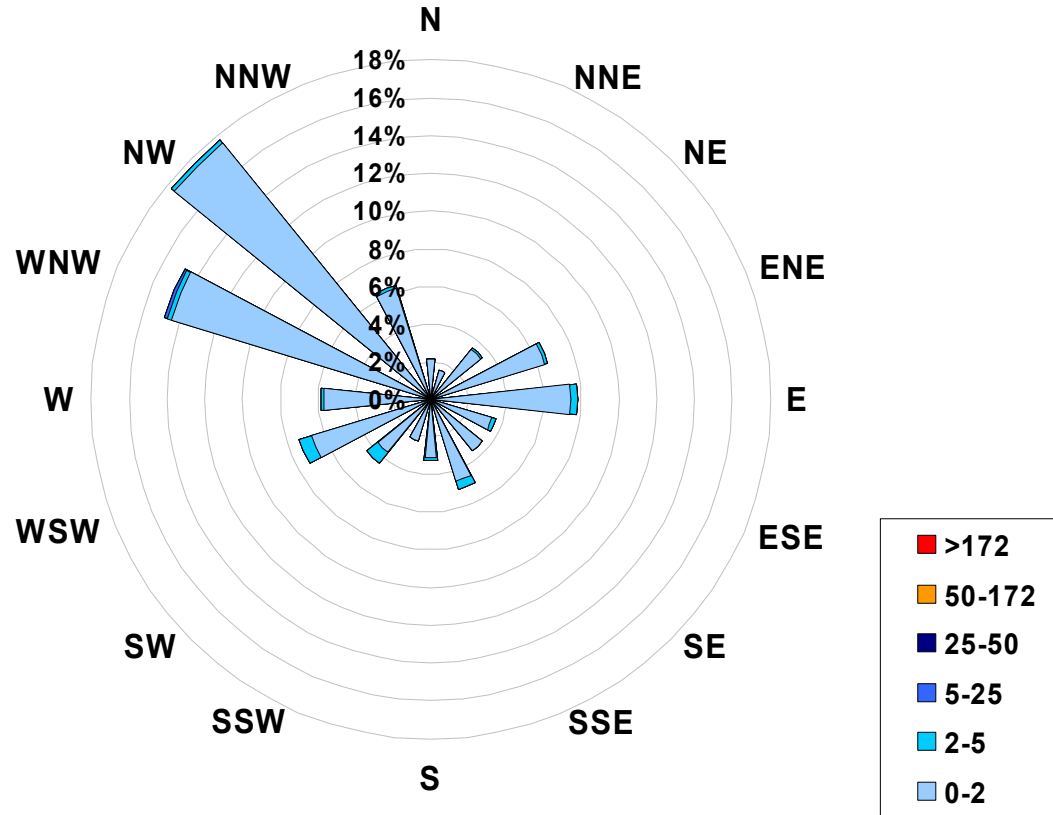


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	681	
2	to 5	27	
5	to 25	1	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			709

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

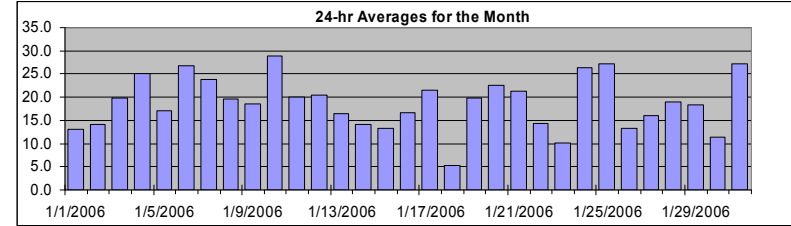
Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Number of 1-hr Exceedances:		0	
Number of 24-hr Exceedances:		0	
Maximum 1-hr Average:	51.9 ppb	26-Jan	8:00 9:00
Maximum 24-hr Average:	29.0 ppb	10-Jan	

AIC Time:	32 hrs	Operational Time:	708 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	42.9	36.1	25.3
	17.4	11.8	4.5
	2.8		
		Average	Median
		18.8 ppb	17.4 ppb



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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jan-06	14	15	14	A	15	13	14	14	17	14	12	10	12	14	13	15	18	16	15	11	9	9	10	9	13.1	17.9
2-Jan-06	10	10	A	13	12	9	10	11	13	14	14	16	17	17	14	13	13	14	17	18	21	22	17	14	14.1	21.8
3-Jan-06	10	A	11	14	14	17	17	15	12	17	22	22	19	24	21	26	31	33	34	26	23	21	15	12	19.8	34.1
4-Jan-06	A	15	16	16	17	19	21	21	21	23	26	27	25	18	29	34	38	40	38	30	29	28	24	A	25.2	40.3
5-Jan-06	18	17	20	22	26	15	10	11	13	13	17	24	17	15	27	24	26	24	24	16	6	4	A	4	17.2	27.4
6-Jan-06	4	7	7	7	11	11	30	45	43	40	38	31	29	28	36	38	31	28	30	32	33	A	30	27	26.8	44.7
7-Jan-06	28	31	27	26	30	27	24	25	19	16	16	12	13	12	19	29	30	33	31	32	A	25	21	20	23.7	33.0
8-Jan-06	19	20	15	17	12	13	19	16	16	17	21	22	20	16	16	23	28	27	28	A	23	21	21	21	19.6	28.4
9-Jan-06	21	17	17	20	16	20	23	27	25	30	19	12	10	10	9	9	11	17	A	27	19	21	24	24	18.7	29.7
10-Jan-06	17	29	36	29	38	35	32	35	41	31	25	26	27	24	22	21	30	A	32	34	32	28	23	19	29.0	41.0
11-Jan-06	18	18	17	16	15	14	24	23	22	24	20	16	12	16	19	20	A	25	25	30	26	25	22	17	20.1	29.5
12-Jan-06	16	16	18	18	19	18	16	15	17	20	23	25	24	20	22	A	30	28	24	21	23	27	20	12	20.5	29.6
13-Jan-06	8	6	6	6	6	9	16	20	22	22	17	22	20	26	A	28	28	28	24	12	10	14	13	11	16.4	28.3
14-Jan-06	12	13	14	18	16	19	19	18	17	12	10	10	12	A	10	10	13	19	20	16	13	11	11	12	14.1	20.1
15-Jan-06	13	10	9	9	10	10	16	15	16	14	14	11	A	12	13	15	17	16	16	15	14	12	13	14	13.2	17.3
16-Jan-06	14	15	16	16	12	11	10	10	11	11	11	C	C	C	C	A	26	29	29	28	22	17	15	13	16.7	29.3
17-Jan-06	11	10	8	8	8	A	21	29	27	26	23	24	18	34	29	22	23	28	27	27	26	26	25	15	21.5	34.4
18-Jan-06	8	8	6	5	5	A	7	6	5	5	3	3	3	3	3	4	6	7	6	5	6	6	4	5.2	8.0	
19-Jan-06	3	5	10	18	A	20	22	26	32	29	23	18	15	12	14	16	24	28	26	26	25	23	20	23	19.9	31.8
20-Jan-06	23	20	20	A	19	23	29	29	33	28	23	17	13	13	15	21	23	26	25	23	25	25	25	24	22.6	33.0
21-Jan-06	22	23	A	25	20	18	17	18	16	15	13	12	12	13	14	16	22	25	33	45	44	40	12	16	21.4	44.7
22-Jan-06	14	A	6	4	7	17	8	4	3	4	4	7	12	18	24	33	40	29	42	42	5	2	2	1	14.3	42.0
23-Jan-06	A	3	3	3	2	3	4	5	5	5	8	6	3	3	2	3	5	22	30	17	28	39	14	22	10.2	39.1
24-Jan-06	19	8	5	5	6	A	25	39	39	39	32	17	21	31	19	17	29	27	32	29	40	45	43	41	26.4	44.9
25-Jan-06	37	27	19	19	A	17	25	26	28	27	30	33	34	40	30	25	29	35	37	41	31	26	6	4	27.2	41.4
26-Jan-06	5	7	6	A	15	29	33	41	52	17	13	8	6	5	7	9	9	9	8	7	6	6	5	4	13.4	51.9
27-Jan-06	4	4	A	5	5	6	8	9	14	11	10	10	8	10	14	20	29	34	34	29	31	26	26	21	15.9	34.1
28-Jan-06	20	A	21	17	16	18	20	19	21	17	17	22	24	15	17	17	19	21	22	20	24	17	15	19	19.0	24.3
29-Jan-06	A	22	17	13	16	17	16	16	19	20	14	14	13	6	7	16	33	36	43	31	15	10	12	A	18.4	42.6
30-Jan-06	7	6	5	5	5	6	9	13	19	15	11	8	6	5	8	9	13	23	33	16	13	11	A	13	11.3	32.6
31-Jan-06	12	17	21	21	17	21	23	23	26	22	21	26	36	42	49	43	37	33	33	30	27	25	25	25	27.3	49.0
Hourly Avg	14.5	14.2	13.9	14.0	14.1	16.3	18.3	20.1	21.4	19.3	17.7	17.0	16.6	17.2	18.1	19.9	23.8	25.4	27.2	24.5	21.6	20.3	17.8	15.9		
Hourly Max	36.8	30.8	35.8	28.7	37.7	34.6	32.6	44.7	51.9	39.9	37.9	33.3	36.2	41.7	49.0	42.8	39.9	40.3	42.6	44.7	44.5	44.9	43.3	40.7		

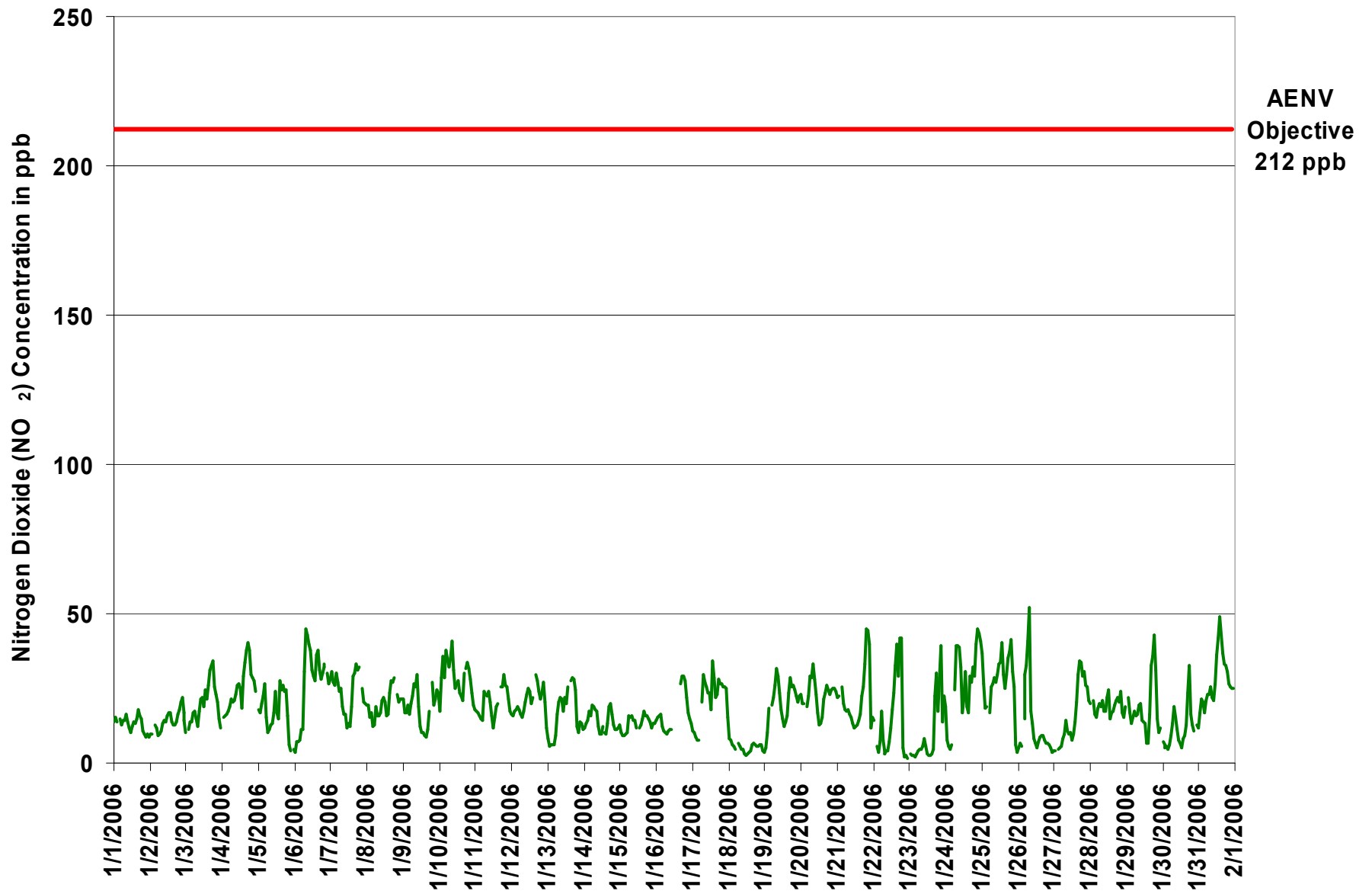


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

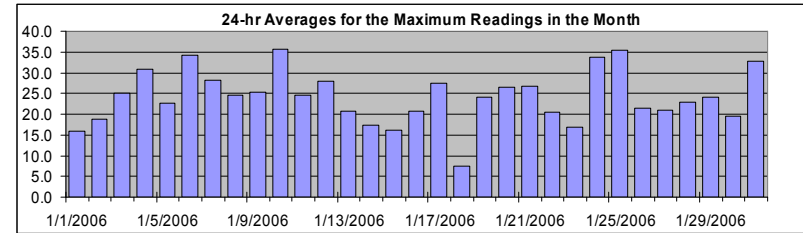
Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	74.7	ppb	25-Jan	13:00 14:00
Maximum 24-hr Value:	35.7	ppb	10-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
	57.1	45.6	30.8	22.5	15.9	7.2	3.7	24.2 ppb	22.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	18	19	16	A	18	13	16	17	18	17	14	13	15	16	16	17	22	19	20	14	12	12	11	11	15.9	21.7
2-Jan-06	12	11	A	17	16	12	13	21	21	19	18	21	20	20	18	14	14	19	23	25	26	30	23	19	18.7	29.7
3-Jan-06	13	A	13	16	18	19	20	18	18	22	29	27	27	29	31	31	36	38	43	39	29	26	19	14	25.0	42.7
4-Jan-06	A	17	20	22	19	23	27	28	25	27	33	34	29	24	39	39	44	47	47	42	32	33	29	A	30.8	47.0
5-Jan-06	22	20	25	25	30	24	15	15	16	21	25	30	29	26	32	30	30	26	29	29	9	6	A	6	22.6	32.3
6-Jan-06	7	13	22	12	17	20	52	49	52	51	49	37	34	34	40	57	38	30	34	41	37	A	33	29	34.2	56.8
7-Jan-06	31	36	30	30	33	30	31	30	27	18	20	18	18	15	29	31	33	38	34	36	A	32	26	21	28.2	37.6
8-Jan-06	22	24	24	19	18	19	21	18	18	20	26	26	23	21	22	25	31	31	32	A	26	31	36	31	24.6	36.1
9-Jan-06	27	19	19	23	20	21	26	30	32	36	32	17	13	15	12	13	14	27	A	35	34	38	37	42	25.2	41.7
10-Jan-06	30	39	39	36	41	38	37	45	49	47	34	35	36	28	26	30	35	A	35	42	37	37	27	22	35.7	49.2
11-Jan-06	21	20	18	18	17	18	31	29	29	32	27	21	15	20	24	24	A	28	32	35	34	31	26	20	24.7	34.7
12-Jan-06	18	19	19	21	21	22	23	18	22	24	32	33	29	27	28	A	34	32	27	24	35	66	44	25	28.1	65.6
13-Jan-06	17	7	8	7	10	18	22	32	27	27	22	25	23	29	A	29	31	31	29	16	13	18	19	18	20.8	31.7
14-Jan-06	14	23	22	21	19	20	20	20	15	12	14	14	A	13	12	16	21	21	20	15	13	15	14	14	17.3	23.1
15-Jan-06	18	18	12	10	13	13	17	16	16	15	16	14	A	13	14	17	37	18	18	17	15	13	15	15	16.1	37.4
16-Jan-06	17	18	20	20	16	14	15	13	15	15	15	C	C	C	C	A	30	32	37	35	28	21	17	16	20.8	37.0
17-Jan-06	18	23	11	15	11	A	27	35	30	28	26	28	24	57	40	26	28	36	30	30	29	29	28	25	27.4	57.3
18-Jan-06	9	9	7	7	5	A	9	8	7	8	7	4	4	4	5	7	11	10	9	7	8	10	8	8	7.5	10.9
19-Jan-06	4	10	16	21	A	22	26	30	38	38	28	23	18	15	17	21	34	32	28	29	30	25	24	25	24.1	38.5
20-Jan-06	26	23	23	A	21	28	52	32	37	31	28	21	15	16	20	27	25	27	28	24	26	27	27	26	26.5	51.9
21-Jan-06	25	25	A	30	22	23	19	22	17	16	16	13	15	14	22	20	32	35	46	54	57	52	21	20	26.8	57.5
22-Jan-06	20	A	10	6	20	24	13	7	5	7	6	11	19	30	35	38	47	36	49	50	29	3	3	3	20.5	50.1
23-Jan-06	A	3	3	3	2	5	6	6	6	7	12	11	7	4	4	6	7	41	46	45	35	45	43	36	16.8	45.6
24-Jan-06	33	11	9	8	10	A	40	45	44	42	43	21	33	39	32	25	37	34	41	41	47	50	47	46	33.7	49.8
25-Jan-06	42	30	27	25	A	23	31	34	31	34	36	43	46	75	36	29	36	39	44	51	40	44	13	8	35.5	74.7
26-Jan-06	10	12	12	A	24	45	57	49	58	52	26	12	12	8	13	13	16	14	14	9	11	10	8	7	21.4	57.7
27-Jan-06	9	9	A	12	8	10	14	16	20	17	14	15	12	16	17	25	35	40	41	35	36	30	29	24	21.1	41.1
28-Jan-06	22	A	24	20	17	24	22	20	25	21	22	26	34	21	20	19	22	26	25	25	27	21	20	24	22.9	33.6
29-Jan-06	A	29	25	16	19	23	18	20	22	29	20	16	19	9	10	29	45	42	46	41	18	16	18	A	24.2	46.4
30-Jan-06	14	12	8	9	7	10	16	20	28	25	19	14	69	8	12	16	17	33	36	26	17	14	A	16	19.5	68.6
31-Jan-06	17	20	25	23	27	25	30	25	30	26	29	36	41	51	63	51	40	37	39	39	31	27	26	26	32.7	63.5
Hourly Avg	19.1	18.6	18.1	17.6	17.9	20.9	24.7	24.8	25.9	25.5	23.7	22.0	23.9	23.6	23.8	24.8	29.2	30.6	32.8	31.9	27.4	27.0	23.9	20.6		
Hourly Max	41.9	38.7	39.2	35.8	40.6	45.0	57.1	49.5	57.7	52.0	49.0	43.5	68.6	74.7	63.5	56.8	47.1	46.8	48.6	54.0	57.5	65.6	47.2	45.6		

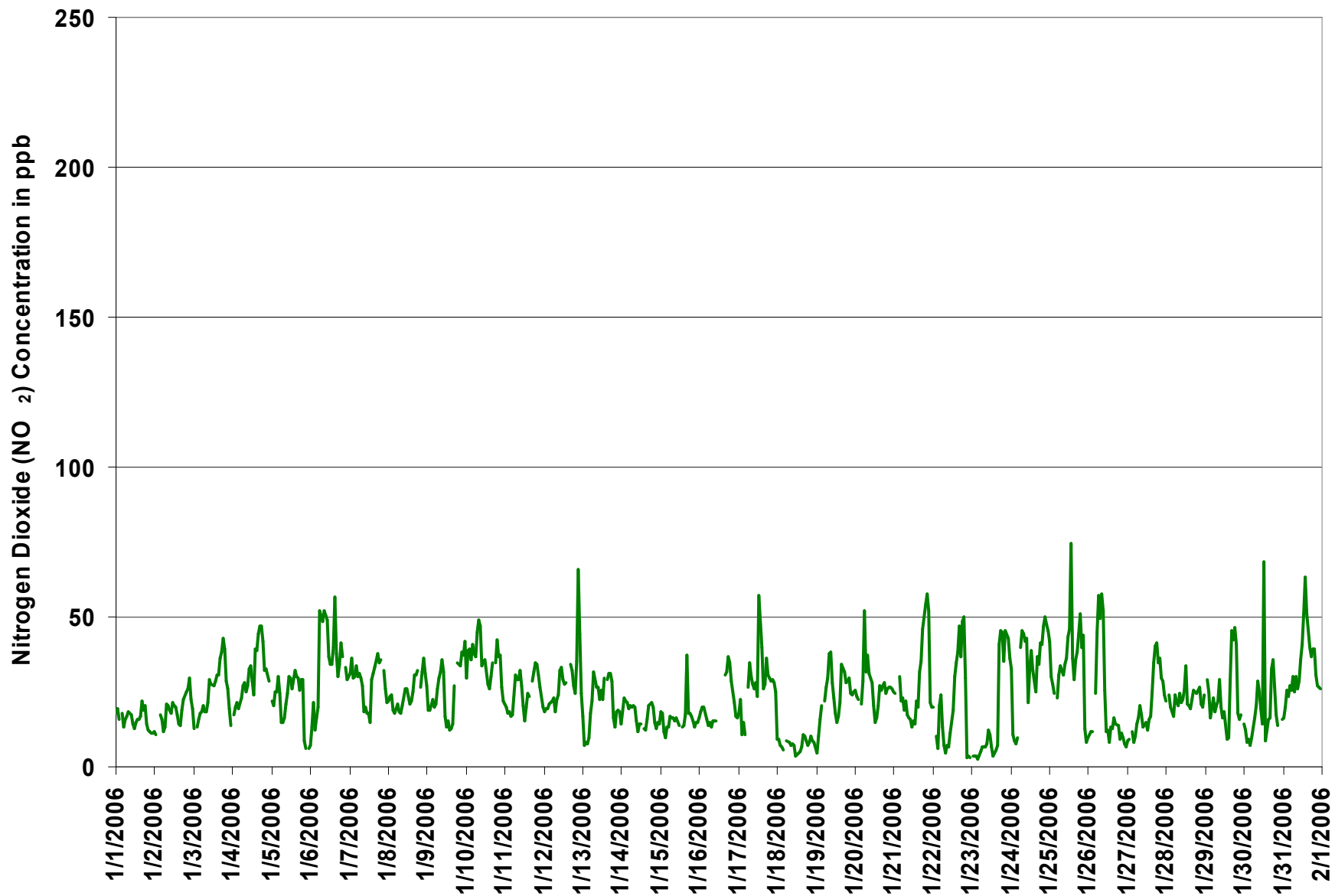
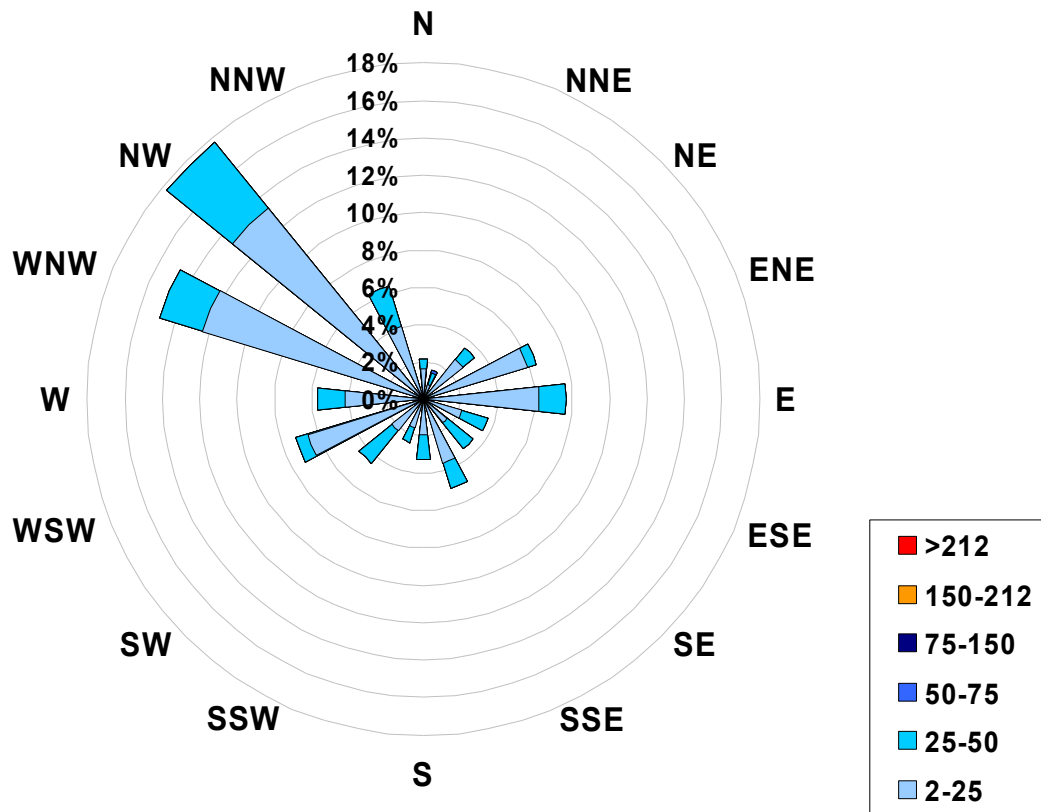


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		403
25	to 50		131
50	to 75		61
75	to 150		88
150	to 212		18
	> 212		7
Total Non-Zero Values			708

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

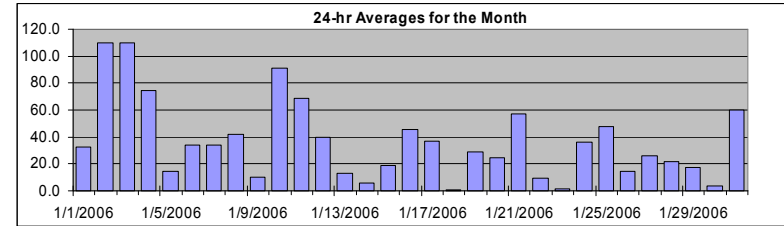
Nitric Oxide (NO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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Summary					
Maximum 1-hr Average:	308.0	ppb	21-Jan	19:00	20:00
Maximum 24-hr Average:	110.2	ppb	3-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
	205.2	130.5	48.7	18.9	3.2	0.3	0.0	36.4 ppb	18.9 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Jan-06	35	18	11	A	11	15	27	29	35	31	19	25	27	31	24	25	37	43	78	77	57	47	22	18	32.4	77.9	
2-Jan-06	22	15	A	24	31	32	40	91	125	116	124	129	91	73	51	41	37	128	196	203	306	288	256	113	110.1	306.0	
3-Jan-06	43	A	48	76	76	89	106	136	104	147	161	117	40	39	27	33	103	142	282	201	205	200	95	66	110.2	281.7	
4-Jan-06	A	26	39	55	44	29	78	108	88	48	48	50	44	15	43	41	73	149	243	126	107	87	97	A	74.5	242.9	
5-Jan-06	49	27	18	11	24	2	1	1	3	2	4	21	22	12	38	21	21	20	32	8	1	1	A	0	14.8	48.6	
6-Jan-06	0	0	0	0	0	0	18	56	122	99	49	30	31	23	74	88	67	26	26	27	30	A	13	11	34.3	122.2	
7-Jan-06	11	22	7	7	26	30	65	82	54	19	42	18	19	11	23	40	55	51	74	83	A	26	12	11	34.3	83.0	
8-Jan-06	11	8	5	8	3	2	18	16	6	21	67	69	58	26	21	40	66	73	109	A	91	91	84	69	41.7	108.6	
9-Jan-06	50	4	4	13	16	9	29	34	14	16	5	4	4	3	2	1	2	A	3	1	3	5	5	5	9.9	49.7	
10-Jan-06	1	5	19	4	14	20	69	159	250	145	109	124	103	59	27	13	38	A	124	167	182	186	172	97	90.8	250.2	
11-Jan-06	52	18	16	9	7	6	76	91	117	151	126	38	16	23	31	19	A	102	142	174	144	147	51	25	68.6	174.0	
12-Jan-06	15	10	25	14	21	29	45	54	85	103	95	104	51	26	21	A	38	54	15	10	13	70	16	2	39.8	103.6	
13-Jan-06	1	1	1	1	1	2	2	9	10	10	9	23	21	43	A	36	42	47	29	3	2	4	4	2	13.1	47.4	
14-Jan-06	1	2	2	3	2	6	7	4	6	3	7	11	19	A	12	5	4	10	15	6	2	2	2	2	5.8	19.1	
15-Jan-06	2	2	0	0	1	0	2	2	4	4	10	32	24	A	24	31	36	43	52	71	54	7	4	9	17	18.6	71.1
16-Jan-06	20	39	56	68	37	41	66	85	103	72	48	C	C	C	C	A	19	33	46	94	26	3	2	2	45.3	103.5	
17-Jan-06	1	2	1	1	1	A	2	30	37	35	35	44	22	86	52	30	38	117	104	81	46	43	36	3	36.9	117.0	
18-Jan-06	0	0	0	0	0	A	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	0	1.0	1.9	
19-Jan-06	0	0	0	2	A	3	7	19	92	121	60	36	27	20	19	17	46	41	16	37	59	22	6	10	28.7	121.0	
20-Jan-06	11	7	6	A	6	26	59	49	72	55	33	21	13	14	18	31	25	26	20	12	13	20	21	17	24.9	71.6	
21-Jan-06	5	19	A	67	33	22	30	28	13	28	34	31	35	33	34	33	39	76	192	308	164	89	1	1	57.3	308.0	
22-Jan-06	1	A	0	0	0	0	0	0	0	0	1	1	3	7	12	17	36	5	50	89	1	0	0	0	9.8	89.2	
23-Jan-06	A	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	3	4	1	2	5	1	1	1.1	5.0	
24-Jan-06	1	0	0	0	0	A	3	27	87	100	57	17	35	49	13	5	8	5	6	3	28	131	140	120	36.4	139.6	
25-Jan-06	52	8	1	2	A	1	10	24	61	54	94	120	84	85	57	32	30	66	145	156	9	5	1	0	47.7	155.5	
26-Jan-06	0	0	0	A	0	5	11	62	186	12	9	5	4	3	6	6	5	4	3	2	2	3	2	2	14.4	186.3	
27-Jan-06	2	2	A	1	1	2	1	1	2	4	3	4	4	6	11	19	35	62	93	112	125	54	48	11	26.3	124.9	
28-Jan-06	7	A	11	6	6	15	29	24	53	29	34	57	74	26	25	15	13	11	9	9	26	8	5	12	21.9	74.0	
29-Jan-06	A	56	27	4	9	22	17	26	38	68	14	11	9	3	3	6	19	11	22	7	2	2	2	A	17.1	67.7	
30-Jan-06	2	2	2	2	1	2	3	3	5	5	5	4	8	3	4	3	3	2	7	4	3	2	A	2	3.3	8.4	
31-Jan-06	2	2	7	8	5	20	27	38	58	23	35	64	109	127	154	124	106	87	115	123	61	59	45	34	59.8	153.6	
Hourly Avg	14.2	10.5	10.9	13.9	13.0	15.4	27.4	41.6	59.1	49.3	44.0	40.2	33.6	30.2	28.8	26.9	35.0	48.4	75.7	72.7	57.2	53.5	39.6	22.4			
Hourly Max	52.0	55.5	56.3	76.2	76.0	89.1	106.3	159.2	250.2	151.1	160.6	129.0	109.3	127.3	153.6	123.7	106.1	149.3	281.7	308.0	306.0	288.3	255.9	119.6			

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

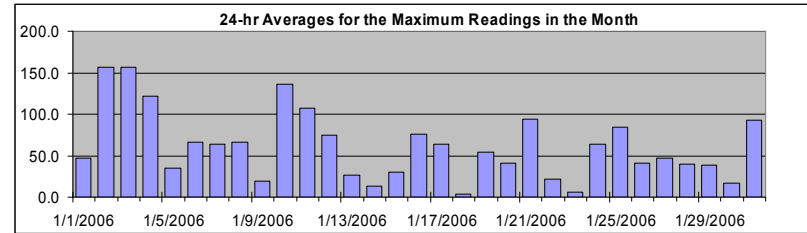
Nitric Oxide (NO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	382.9	ppb	3-Jan	19:00 20:00
Maximum 24-hr Value:	156.4	ppb	3-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
	303.5	210.9	82.0	37.1	11.9	1.2	0.5	61.4 ppb	37.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	45	39	23	A	20	24	32	38	41	42	37	32	37	35	36	35	49	61	116	107	88	71	42	33	47.1	116.3	
2-Jan-06	31	22	A	39	55	46	66	225	207	136	167	203	150	83	89	50	74	224	248	254	368	364	299	188	156.1	368.2	
3-Jan-06	67	A	61	91	94	99	149	156	188	178	228	142	72	62	70	61	137	227	334	383	297	285	135	82	156.4	382.9	
4-Jan-06	A	37	68	76	68	55	159	183	129	59	69	72	66	27	92	71	139	224	359	251	199	142	147	A	122.3	359.2	
5-Jan-06	66	57	44	24	62	25	2	4	28	15	17	55	71	38	80	41	41	33	78	28	2	1	A	1	35.2	79.8	
6-Jan-06	1	1	2	1	2	2	63	120	209	175	115	55	58	40	115	181	97	63	37	62	58	A	32	24	65.7	209.0	
7-Jan-06	24	41	18	33	41	42	119	120	99	44	63	40	40	19	63	62	115	81	122	153	A	76	39	20	64.0	152.9	
8-Jan-06	17	21	21	16	13	21	35	28	15	52	92	97	96	42	34	56	85	93	141	A	118	192	123	119	66.3	191.6	
9-Jan-06	85	7	6	20	26	17	43	58	36	33	16	6	6	7	4	3	2	5	A	7	5	11	19	35	19.8	85.1	
10-Jan-06	7	24	29	17	34	54	137	237	361	257	173	189	182	108	44	46	76	A	170	222	211	239	193	131	136.5	360.8	
11-Jan-06	95	45	25	25	14	18	120	110	172	239	229	80	27	37	51	41	A	146	237	239	189	220	76	42	107.6	239.2	
12-Jan-06	28	33	40	35	33	68	68	72	147	135	131	154	80	48	41	A	71	89	30	16	46	166	158	20	74.2	166.2	
13-Jan-06	15	2	1	1	5	12	6	33	28	24	29	42	32	60	A	49	67	62	68	7	14	19	25	16	26.8	67.9	
14-Jan-06	5	19	18	5	8	10	12	13	13	7	14	26	26	A	20	8	5	28	26	17	5	8	7	5	13.4	27.9	
15-Jan-06	13	10	2	2	4	2	3	4	6	20	44	45	A	28	38	43	80	87	103	88	18	8	15	32	30.2	103.4	
16-Jan-06	37	52	71	90	55	65	102	120	186	105	81	C	C	C	C	A	43	51	125	153	97	5	4	5	76.3	185.5	
17-Jan-06	6	15	2	9	10	A	6	63	54	49	48	60	41	138	102	44	75	211	146	138	75	84	74	11	63.6	210.8	
18-Jan-06	2	1	1	0	0	A	2	2	4	8	11	3	3	3	3	5	4	2	2	2	1	4	3	2	3.2	10.5	
19-Jan-06	1	1	2	3	A	5	15	33	189	181	93	64	38	28	28	38	134	66	34	101	100	53	14	18	53.8	189.1	
20-Jan-06	20	18	13	A	12	60	121	71	89	72	49	35	17	25	37	45	36	34	57	19	23	31	36	29	41.3	121.3	
21-Jan-06	10	43	A	88	73	35	43	62	26	55	42	42	50	43	67	53	85	152	304	382	269	212	11	2	93.4	382.5	
22-Jan-06	1	A	1	4	1	1	0	1	1	1	1	2	5	17	28	48	63	12	132	172	19	1	1	1	22.2	171.7	
23-Jan-06	A	0	0	0	0	1	1	1	1	2	3	3	2	2	1	1	1	9	19	19	15	25	11	4	5.4	25.3	
24-Jan-06	6	1	1	1	1	A	11	80	120	128	106	27	86	69	43	9	13	10	17	9	86	239	214	180	63.4	239.4	
25-Jan-06	80	20	7	9	A	7	50	51	88	115	142	167	162	148	102	54	72	129	206	232	54	48	1	1	84.5	231.9	
26-Jan-06	1	0	0	A	1	68	69	165	271	146	33	15	13	9	20	17	16	22	17	10	11	11	17	14	41.1	271.5	
27-Jan-06	8	8	A	14	9	15	7	4	13	17	10	16	14	18	12	29	49	117	119	234	182	87	65	26	46.6	234.0	
28-Jan-06	18	A	17	11	10	25	43	41	79	60	78	88	127	46	34	26	23	40	22	37	41	18	13	28	40.2	126.6	
29-Jan-06	A	69	73	8	20	45	34	44	61	193	26	16	14	5	5	16	47	80	47	25	3	11	18	A	39.0	192.6	
30-Jan-06	12	11	10	9	7	9	15	16	15	12	14	11	186	6	8	6	6	4	13	9	8	4	A	4	17.3	186.0	
31-Jan-06	17	6	21	18	21	76	49	57	103	56	73	119	134	167	210	174	126	131	165	196	94	105	72	41	93.0	210.1	
Hourly Avg	25.6	21.6	20.7	23.2	24.1	32.3	51.0	71.4	96.1	84.3	72.1	63.6	63.3	46.8	50.9	45.3	61.1	83.1	116.5	119.1	89.9	91.4	64.2	38.4			
Hourly Max	94.8	68.8	72.8	90.6	93.6	99.5	158.5	236.6	360.8	256.8	228.6	203.2	186.0	166.5	210.1	181.2	139.5	227.1	359.2	382.9	368.2	364.1	299.5	187.7			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

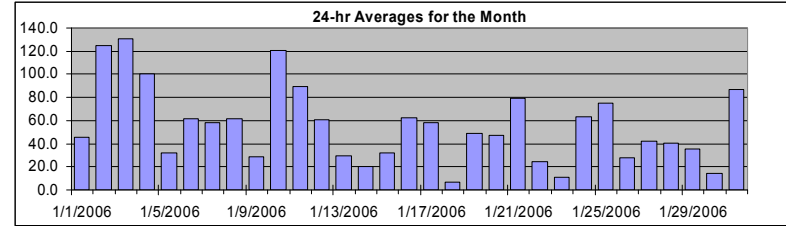
Monitoring Dates: January 1, 2006 to February 1, 2006

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	353.9	ppb	21-Jan	19:00 20:00
Maximum 24-hr Average:	130.7	ppb	3-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
	238.3	166.6	72.4	38.9	17.4	5.3	3.1	55.5 ppb	38.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Jan-06	49	34	25	A	26	28	41	44	52	45	31	35	40	45	38	40	55	60	93	88	67	57	32	27	45.9	93.5	
2-Jan-06	32	25	A	36	43	41	50	103	139	131	138	146	109	91	65	55	50	143	214	222	328	312	274	128	125.0	328.4	
3-Jan-06	53	A	59	90	90	107	124	151	117	165	183	140	59	63	48	59	135	176	317	228	229	221	110	78	130.7	317.4	
4-Jan-06	A	42	55	72	62	48	100	129	109	71	74	77	69	34	72	75	112	191	282	157	136	115	122	A	100.0	282.2	
5-Jan-06	67	44	38	33	50	17	11	12	15	16	21	46	38	27	66	45	48	44	56	24	7	A	A	4	31.9	66.7	
6-Jan-06	4	7	8	8	11	11	49	101	166	139	87	61	60	51	110	126	99	55	56	59	64	A	44	38	61.4	165.9	
7-Jan-06	39	53	34	33	56	58	90	107	74	36	59	30	33	23	42	69	86	85	106	116	A	51	33	31	58.5	115.7	
8-Jan-06	30	28	21	25	15	15	38	32	22	38	89	91	79	42	38	63	94	101	138	A	114	113	106	91	61.8	137.9	
9-Jan-06	71	21	21	33	33	29	51	61	39	46	23	16	14	14	12	11	12	19	A	A	31	21	24	30	28	28.7	71.4
10-Jan-06	18	34	55	33	52	55	101	196	293	177	135	152	131	84	50	35	69	A	157	202	215	215	197	117	120.5	292.9	
11-Jan-06	70	35	32	25	22	20	100	114	140	176	147	54	28	39	50	38	A	128	168	205	171	173	73	42	89.1	204.6	
12-Jan-06	32	26	42	32	40	47	62	69	103	124	118	129	75	46	43	A	68	83	39	31	36	98	37	14	60.7	129.5	
13-Jan-06	10	6	7	7	7	11	19	30	32	32	26	45	41	68	A	64	70	76	54	16	13	18	17	13	29.6	75.7	
14-Jan-06	13	15	17	20	18	25	26	22	23	16	17	21	32	A	23	15	18	29	36	22	15	14	13	13	20.1	35.5	
15-Jan-06	15	12	10	9	11	11	18	18	20	24	47	36	A	36	44	51	61	69	87	69	21	16	22	31	32.0	87.3	
16-Jan-06	34	54	72	85	49	52	77	96	115	83	59	C	C	C	C	A	45	62	76	122	48	20	17	15	62.2	121.7	
17-Jan-06	12	12	9	9	9	A	23	60	65	61	59	68	40	121	81	52	61	145	131	108	72	69	62	19	58.6	145.5	
18-Jan-06	8	8	7	6	5	A	8	7	6	7	5	5	5	5	5	6	8	8	7	6	6	7	7	4	6.3	8.5	
19-Jan-06	3	5	10	20	A	22	28	45	124	150	83	54	42	32	33	33	70	69	42	63	84	45	26	32	48.6	150.4	
20-Jan-06	34	27	26	A	25	48	88	77	105	83	56	38	26	27	33	52	49	52	45	35	37	45	46	41	47.6	104.8	
21-Jan-06	27	42	A	93	53	40	48	46	30	43	48	43	48	46	48	50	61	101	226	354	209	129	13	17	78.9	353.9	
22-Jan-06	15	A	6	4	7	17	8	4	4	5	5	8	15	25	35	50	76	35	92	132	6	2	3	2	24.1	131.5	
23-Jan-06	A	3	3	3	2	4	5	5	5	6	10	7	4	3	3	4	5	25	34	19	31	44	14	23	11.4	44.0	
24-Jan-06	20	8	6	5	7	A	27	66	127	139	90	34	56	80	32	22	37	32	39	32	68	177	183	161	62.9	183.4	
25-Jan-06	89	34	19	21	A	18	36	50	90	81	124	154	118	126	87	57	59	101	183	198	40	31	7	4	75.1	197.5	
26-Jan-06	5	7	6	A	15	34	44	103	239	29	22	13	11	8	13	15	14	13	11	9	9	9	8	5	27.9	238.9	
27-Jan-06	6	6	A	6	6	8	10	11	17	15	13	14	12	16	24	39	65	97	127	142	156	80	74	32	42.4	156.0	
28-Jan-06	27	A	32	23	21	33	49	42	74	47	52	79	99	41	42	32	32	32	31	29	50	25	19	31	40.9	98.5	
29-Jan-06	A	78	44	17	24	39	33	42	58	88	28	25	22	9	9	23	51	46	65	38	16	13	14	A	35.4	87.7	
30-Jan-06	9	8	7	7	6	8	12	16	23	20	16	12	15	8	13	12	15	26	40	20	15	13	A	15	14.7	39.6	
31-Jan-06	14	19	29	29	22	41	50	61	84	45	57	91	146	170	203	167	143	120	148	154	88	84	71	59	87.3	203.3	
Hourly Avg	28.8	24.8	25.0	28.0	27.1	31.7	45.9	61.9	80.9	68.9	62.0	57.5	50.5	47.6	47.0	46.9	59.0	74.1	103.3	97.6	79.1	74.1	57.7	38.4			
Hourly Max	88.9	77.6	72.4	93.0	90.2	106.7	124.1	195.5	292.9	177.2	183.1	154.1	146.0	169.5	203.3	167.0	143.3	190.5	317.4	353.9	328.4	311.9	274.3	160.8			

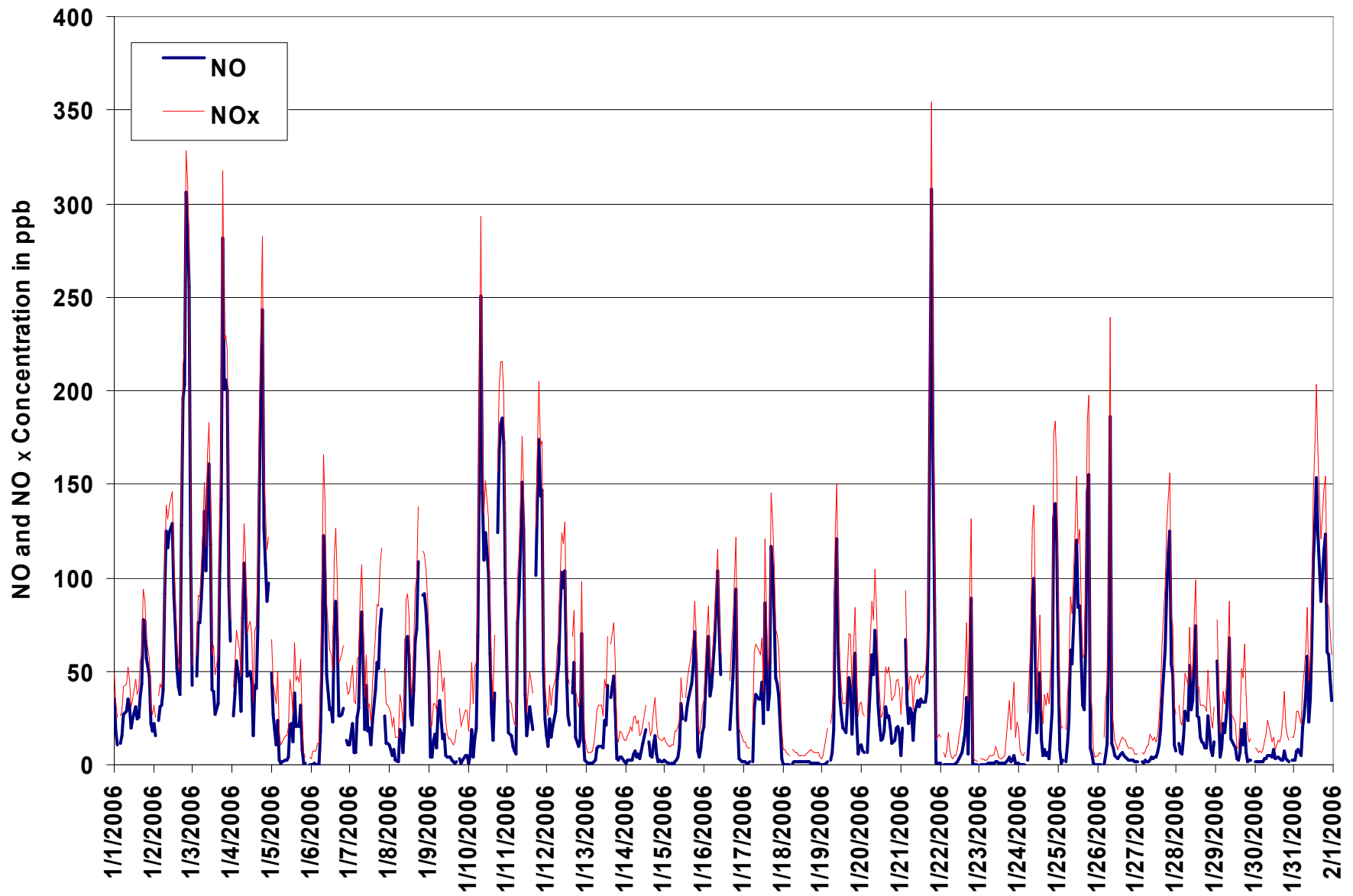


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

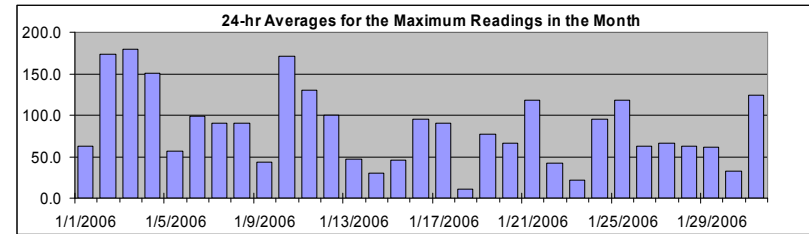
Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	432.2	ppb	21-Jan	19:00 20:00
Maximum 24-hr Value:	180.1	ppb	3-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
	344.0	246.5	112.2	59.7	31.5	8.9	5.1	84.4 ppb	59.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	63	56	38	A	38	38	47	53	60	60	51	43	52	51	52	70	80	129	121	98	82	52	43	62.2	129.1	
2-Jan-06	40	33	A	57	72	55	78	245	224	155	185	225	170	102	108	64	87	243	266	273	395	396	322	208	174.0	395.9
3-Jan-06	80	A	74	107	112	118	166	171	204	200	257	169	90	90	101	92	174	267	368	422	323	312	152	94	180.1	422.3
4-Jan-06	A	52	88	96	86	76	186	208	152	86	100	104	95	51	131	110	183	264	406	289	227	172	164	A	151.1	406.0
5-Jan-06	88	74	66	48	92	49	17	19	42	35	41	80	96	64	113	71	70	58	104	58	10	6	A	7	56.7	112.7
6-Jan-06	8	14	24	13	18	22	113	166	257	216	165	92	93	72	154	233	130	91	67	104	95	A	65	53	98.5	257.3
7-Jan-06	54	78	46	58	75	70	144	148	127	61	83	58	52	33	93	93	147	115	154	186	A	105	65	41	90.6	186.2
8-Jan-06	37	45	44	34	31	38	54	45	32	73	115	121	120	63	56	81	115	120	173	A	143	217	160	151	90.0	217.4
9-Jan-06	113	25	25	38	44	37	67	85	61	67	48	24	19	22	16	16	16	32	A	42	39	46	56	71	43.9	113.1
10-Jan-06	36	62	65	53	73	88	173	283	407	305	207	226	219	134	70	76	111	A	203	261	247	270	219	154	171.4	407.3
11-Jan-06	113	64	42	41	31	34	149	132	201	267	256	100	42	57	76	64	A	173	270	272	214	245	97	60	130.4	272.1
12-Jan-06	43	50	56	49	55	88	83	88	166	158	161	183	108	75	69	A	104	118	57	38	82	233	181	45	99.6	233.2
13-Jan-06	32	8	9	9	14	26	26	64	54	50	47	67	54	86	A	78	98	94	97	23	27	32	44	35	46.7	97.8
14-Jan-06	17	42	40	27	27	29	32	34	33	23	27	40	41	A	33	19	20	49	47	34	17	19	22	19	30.0	48.7
15-Jan-06	31	28	13	12	15	14	20	20	22	35	59	59	A	41	52	61	114	102	120	102	34	20	29	44	45.4	119.8
16-Jan-06	54	70	92	108	71	75	116	131	201	117	95	C	C	C	C	A	73	80	156	178	124	27	21	20	95.3	201.4
17-Jan-06	24	38	13	24	19	A	33	94	84	76	74	88	65	196	141	70	103	246	174	166	102	113	99	35	90.3	246.0
18-Jan-06	11	10	8	7	6	A	11	11	11	16	18	7	7	7	8	11	15	13	11	9	9	14	11	10	10.6	17.8
19-Jan-06	5	11	17	23	A	26	41	62	225	218	121	86	56	42	43	60	168	97	63	130	130	76	37	43	77.4	225.1
20-Jan-06	45	40	36	A	33	88	173	101	120	102	77	52	32	40	55	72	61	61	80	43	49	58	59	53	66.6	173.4
21-Jan-06	34	68	A	112	95	58	60	84	42	71	57	55	65	57	89	73	116	188	345	432	316	256	32	22	118.6	432.2
22-Jan-06	21	A	10	7	21	25	13	8	5	8	7	13	24	48	63	84	108	47	180	215	48	4	4	3	42.0	215.0
23-Jan-06	A	4	4	4	3	6	7	7	7	9	16	14	9	5	6	7	8	50	65	64	48	70	53	38	21.9	70.2
24-Jan-06	36	11	9	8	10	A	51	120	163	166	150	48	118	105	72	34	49	44	57	51	130	285	257	227	95.7	285.3
25-Jan-06	120	50	34	32	A	29	80	85	116	147	178	211	202	208	137	83	107	166	251	279	93	82	14	9	118.0	279.3
26-Jan-06	10	12	12	A	25	113	126	216	329	199	55	26	25	16	33	30	31	36	31	18	21	19	24	21	62.0	329.4
27-Jan-06	14	16	A	26	17	21	19	20	30	33	21	30	26	34	28	53	82	158	158	267	219	113	92	50	66.4	266.9
28-Jan-06	40	A	41	30	26	48	64	62	103	80	97	113	158	67	54	45	45	64	47	61	65	38	32	51	62.2	158.4
29-Jan-06	A	98	96	24	39	67	50	61	80	215	46	32	32	14	14	45	92	118	91	65	20	26	35	A	61.9	214.6
30-Jan-06	25	24	19	18	13	18	32	29	41	36	33	26	188	13	20	21	23	36	48	34	25	17	A	20	33.0	188.2
31-Jan-06	31	23	46	41	48	97	73	81	133	82	99	156	176	219	273	226	167	166	202	232	123	130	99	67	124.6	273.0
Hourly Avg	43.7	39.5	38.1	39.5	41.7	52.0	74.3	94.6	120.5	108.6	94.9	84.9	84.0	69.4	74.4	69.8	89.6	112.6	147.3	149.1	115.7	116.1	86.1	58.4		
Hourly Max	120.4	98.0	96.2	112.2	111.9	118.4	185.8	283.1	407.3	305.5	257.3	225.7	218.7	218.6	273.0	233.1	183.4	266.8	406.0	432.2	395.2	395.9	322.4	226.7		

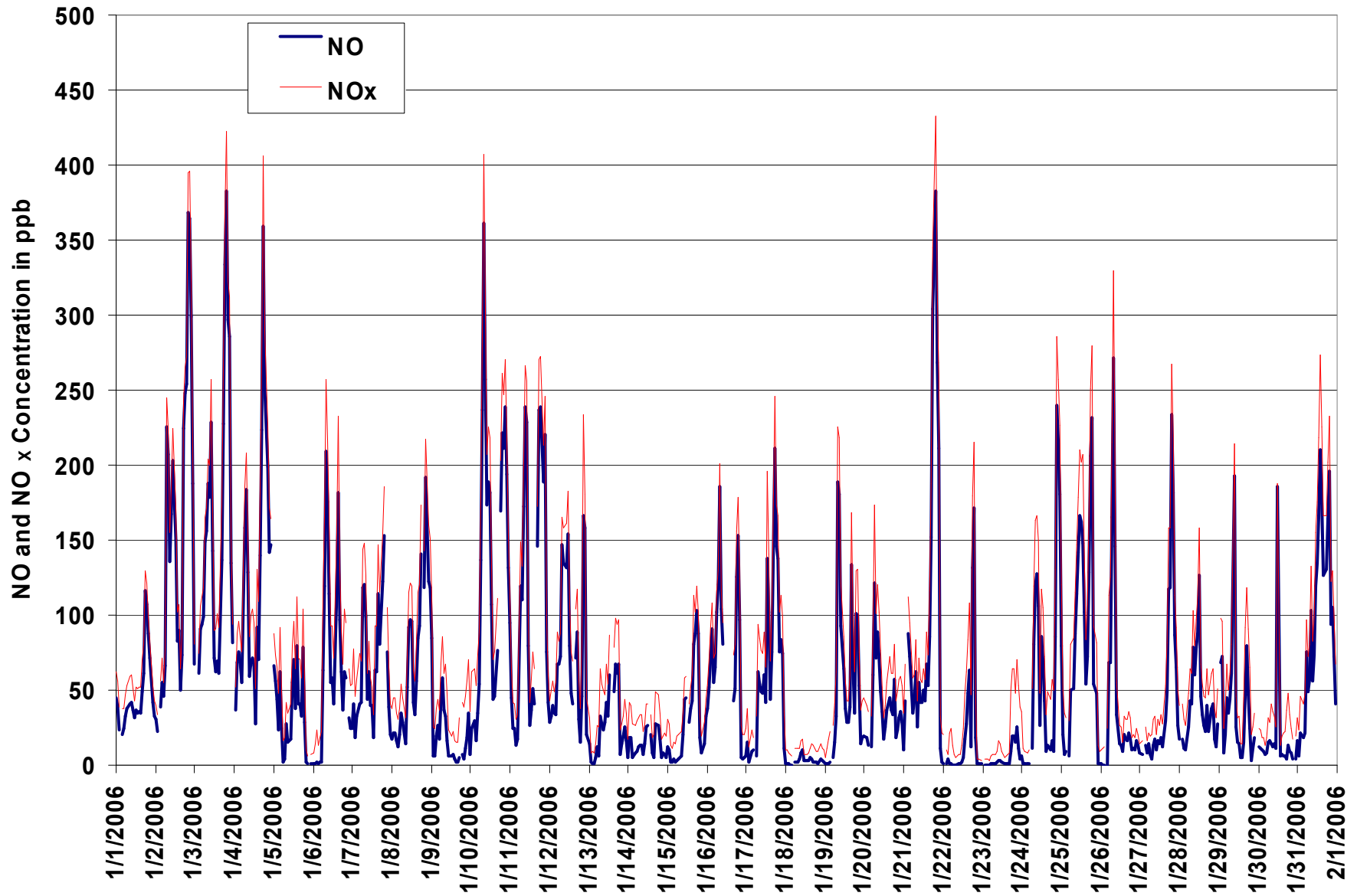


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

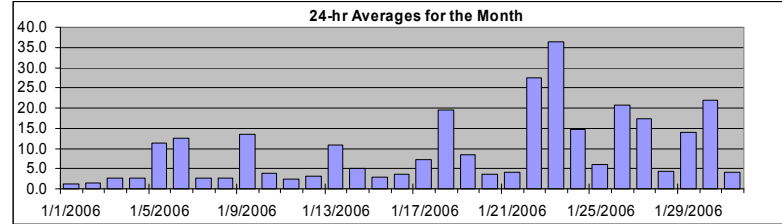
Ozone (O₃)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Number of 1-hr Exceedances:		0	
Maximum 1-hr Average:	46.1 ppb	23-Jan	15:00 16:00
Maximum 24-hr Average:	36.4 ppb	23-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
	41.8	35.9	14.5	3.8	1.2	0.2	0.0	9.4 ppb	3.8 ppb



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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jan-06	0	0	0	0	A	1	0	0	1	1	1	2	3	5	5	4	2	1	1	1	1	1	0	0	1.3	4.8
2-Jan-06	0	0	0	A	0	0	0	1	2	2	1	1	2	2	3	2	1	1	1	2	2	3	3	2	1.4	3.4
3-Jan-06	1	1	A	1	1	2	2	2	1	2	2	3	3	6	8	9	4	2	2	3	2	2	2	1	2.7	9.3
4-Jan-06	1	A	1	1	1	1	1	1	1	1	1	2	5	7	13	7	4	2	2	3	1	2	2	1	2.6	13.5
5-Jan-06	A	0	0	0	1	0	15	21	22	18	17	14	6	12	15	7	5	1	0	1	18	36	38	A	11.3	37.8
6-Jan-06	38	39	34	34	34	30	30	14	1	1	1	3	7	10	9	3	2	0	0	0	0	0	A	1	12.5	38.6
7-Jan-06	1	1	0	2	2	0	0	0	1	0	1	2	7	9	13	9	4	1	1	1	2	A	3	2	2.7	13.4
8-Jan-06	2	2	2	5	1	3	6	1	1	2	2	3	3	4	7	7	3	2	2	2	A	1	1	1	2.7	7.4
9-Jan-06	1	1	3	3	0	0	1	0	0	3	4	21	28	31	32	32	30	24	A	A	13	19	17	15	13.4	32.4
10-Jan-06	15	19	8	1	6	1	2	0	1	2	1	1	2	3	4	6	8	2	A	2	2	2	2	1	3.9	19.5
11-Jan-06	0	1	0	0	1	1	1	1	1	2	2	1	5	10	8	8	8	A	2	2	2	2	1	0	2.5	9.7
12-Jan-06	1	1	1	0	0	0	0	1	0	1	2	2	3	7	11	12	A	2	1	2	6	7	2	11	3.2	12.0
13-Jan-06	19	22	25	23	22	21	20	13	8	4	4	8	6	7	4	A	3	1	0	1	9	11	8	9	10.8	24.7
14-Jan-06	10	10	7	6	3	3	0	1	1	2	5	7	8	7	A	9	9	6	1	1	3	4	5	5	4.9	10.0
15-Jan-06	5	4	5	6	7	7	6	1	0	0	1	3	4	A	5	4	2	2	1	1	0	1	2	1	2.9	6.9
16-Jan-06	1	1	4	2	0	0	0	0	0	0	0	1	2	5	7	8	9	4	1	1	1	7	14	14	3.5	14.4
17-Jan-06	15	17	18	19	21	23	A	10	1	0	1	C	C	C	A	4	4	2	1	1	0	0	0	0	7.3	23.2
18-Jan-06	9	15	11	12	12	13	A	15	16	18	20	22	23	24	25	26	26	25	24	23	24	23	22	22	19.6	26.4
19-Jan-06	24	24	22	17	8	A	8	5	3	2	3	5	10	13	14	14	12	4	1	1	1	1	1	2	8.5	24.1
20-Jan-06	1	1	2	3	A	3	1	1	1	2	3	5	8	13	12	10	6	4	2	1	1	1	1	1	3.6	12.6
21-Jan-06	1	2	1	A	2	1	1	1	1	1	2	5	7	7	8	8	6	2	1	4	4	1	1	27	4.0	27.3
22-Jan-06	26	26	A	36	39	36	26	35	39	40	38	39	36	31	26	20	11	4	12	2	2	34	38	38	27.5	39.6
23-Jan-06	39	A	40	40	41	41	42	42	42	41	39	42	45	46	46	45	43	25	17	28	15	4	31	36.4	46.1	
24-Jan-06	19	20	30	32	33	33	A	13	0	0	1	5	13	12	10	23	26	14	17	12	15	4	1	1	14.6	33.4
25-Jan-06	0	0	2	9	6	A	11	3	1	0	1	2	3	9	8	7	8	5	0	1	2	11	13	38	6.1	37.9
26-Jan-06	39	38	38	37	A	25	11	6	0	1	15	16	19	22	23	22	19	19	18	20	21	21	22	24	20.8	39.2
27-Jan-06	27	29	30	A	29	28	28	25	23	19	23	22	22	24	22	19	13	6	2	2	2	2	2	2	17.4	29.5
28-Jan-06	3	4	A	2	3	3	2	0	2	3	5	6	7	8	8	8	6	5	4	6	2	5	6	4.3	8.4	
29-Jan-06	3	A	2	1	3	3	1	2	1	1	3	14	23	30	40	39	30	15	8	3	13	27	33	29	14.1	39.6
30-Jan-06	A	34	33	32	31	31	31	28	22	14	14	18	22	25	25	22	22	20	10	2	14	17	18	A	22.0	33.7
31-Jan-06	15	15	10	3	2	5	1	1	1	1	3	5	5	6	6	7	5	3	1	1	1	0	0	0	4.1	15.3
Hourly Avg	10.9	11.7	11.8	11.7	11.0	10.9	8.8	7.8	6.2	5.9	7.0	9.2	11.2	13.4	14.4	13.4	11.4	7.6	5.5	3.9	6.5	8.6	8.7	9.9		
Hourly Max	39.3	38.6	40.2	40.5	41.0	41.3	41.8	41.6	42.1	42.0	41.5	38.9	41.8	44.8	45.5	46.1	45.0	43.3	24.9	23.5	28.1	36.1	37.9	37.9		

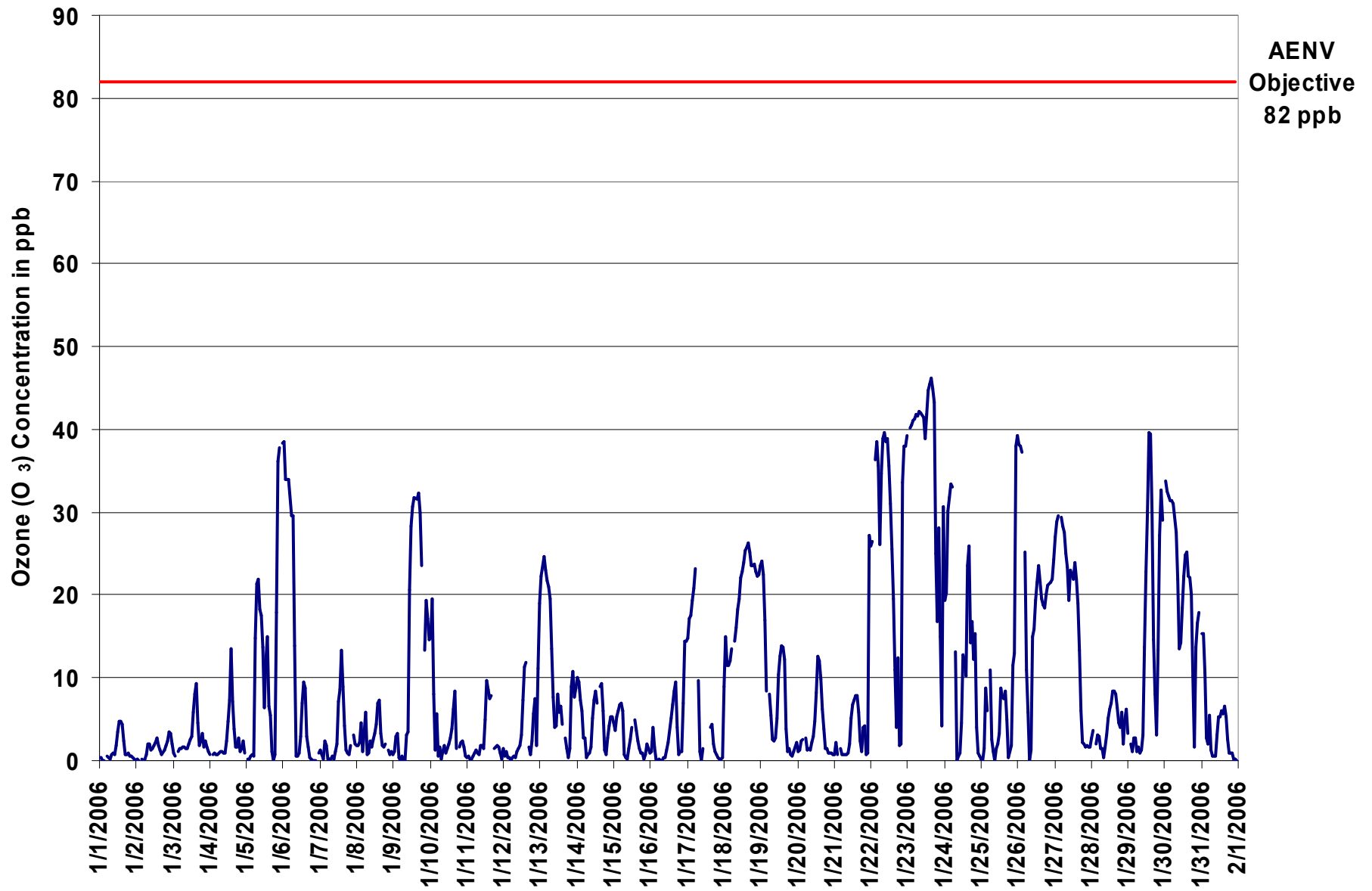


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

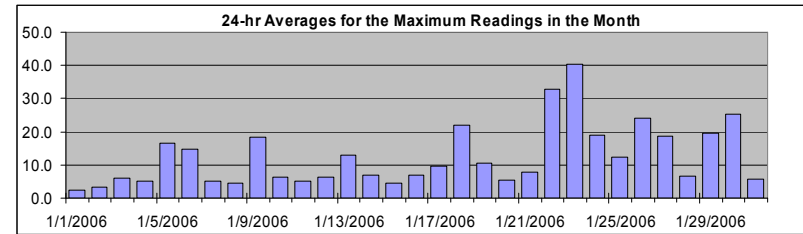
Ozone (O₃)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	58.5	ppb	3-Jan	14:00 15:00
Maximum 24-hr Value:	40.3	ppb	23-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
	44.3	39.3	20.0	7.4	2.7	1.0	0.6	12.4 ppb	7.4 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	1	0	1	A	1	1	1	1	2	1	4	4	6	6	5	4	2	1	2	3	3	2	2	1	2.3	6.1	
2-Jan-06	1	0	A	1	1	1	2	13	13	3	3	3	3	3	2	1	3	3	5	4	5	4	2	3.4	13.4		
3-Jan-06	1	A	2	3	2	2	3	2	3	3	4	4	8	11	58	8	3	3	7	4	4	4	3	1	6.1	58.5	
4-Jan-06	A	1	2	1	1	2	2	3	2	2	4	6	15	19	13	5	4	3	5	4	5	10	2	A	5.1	19.2	
5-Jan-06	1	2	2	2	3	26	27	24	22	22	18	10	19	20	9	8	4	1	9	36	40	40	A	39	16.6	39.9	
6-Jan-06	40	39	40	38	37	36	33	2	2	3	7	9	15	13	8	3	1	1	1	1	1	A	3	4	14.7	40.2	
7-Jan-06	3	1	6	6	1	1	1	2	1	2	4	10	12	16	13	5	3	2	2	9	A	8	7	4	5.2	15.7	
8-Jan-06	4	6	7	3	7	10	2	3	6	3	3	4	7	9	9	6	3	3	3	A	4	2	2	2	4.6	10.3	
9-Jan-06	2	4	5	1	1	1	1	1	8	7	29	31	34	34	35	35	33	30	A	18	25	30	28	28	18.3	35.1	
10-Jan-06	27	17	8	12	4	6	2	2	3	3	3	4	5	8	12	3	A	3	9	5	3	1	1	6.3	27.5		
11-Jan-06	3	1	1	2	4	4	2	1	7	4	2	8	12	11	10	11	A	5	7	3	7	3	1	10	5.2	11.6	
12-Jan-06	3	3	1	2	1	1	1	1	2	3	3	5	11	16	15	A	3	2	5	9	12	10	17	22	6.4	22.4	
13-Jan-06	24	26	24	23	22	22	18	14	6	8	13	9	8	6	A	5	2	1	8	12	13	10	11	12	13.0	25.6	
14-Jan-06	13	11	10	8	5	1	2	2	4	8	9	10	8	A	10	11	9	4	2	5	6	7	7	6	6.9	12.6	
15-Jan-06	6	7	8	8	9	8	3	1	1	2	4	6	A	6	5	4	4	4	4	2	2	3	2	3	4.4	9.2	
16-Jan-06	10	11	3	1	1	5	1	1	2	1	2	4	7	8	13	14	8	2	4	4	14	16	16	17	6.8	16.6	
17-Jan-06	19	20	21	23	25	A	13	9	1	3	C	C	C	A	5	6	4	4	3	1	2	1	3	18	9.6	25.1	
18-Jan-06	17	13	13	13	15	A	16	18	20	22	24	24	26	26	27	29	27	26	25	25	25	25	25	25	22.0	28.8	
19-Jan-06	25	25	22	13	A	12	10	5	6	7	9	15	15	16	16	15	9	2	3	3	2	3	4	3	10.5	25.4	
20-Jan-06	3	5	5	A	6	3	2	2	3	4	6	13	16	14	13	9	5	4	4	2	2	2	2	3	5.6	16.1	
21-Jan-06	6	3	A	3	1	1	1	1	2	3	7	8	9	9	11	10	4	7	9	6	4	10	30	31	7.7	31.1	
22-Jan-06	32	A	38	40	39	32	39	40	41	40	41	38	36	33	29	16	14	25	11	15	38	39	39	40	32.9	40.8	
23-Jan-06	A	41	41	42	42	43	43	44	44	43	44	45	47	47	47	47	45	41	31	37	21	14	39	38	40.3	47.5	
24-Jan-06	28	33	33	36	37	A	26	2	3	2	11	18	18	13	31	32	22	24	24	26	16	2	2	1	19.1	36.7	
25-Jan-06	1	5	13	11	A	18	10	6	1	3	3	5	14	11	10	13	9	2	6	6	24	31	42	41	12.3	42.3	
26-Jan-06	42	42	39	A	31	21	19	1	8	19	20	22	24	25	24	22	21	22	23	23	24	25	27	29	24.1	42.3	
27-Jan-06	30	32	A	31	30	29	29	29	25	26	25	25	26	24	22	17	10	3	3	3	3	3	3	4	18.7	31.7	
28-Jan-06	5	A	4	5	4	3	3	2	3	4	8	7	8	10	10	9	8	9	7	11	5	8	9	9	6.5	11.1	
29-Jan-06	A	3	2	5	8	2	5	2	2	10	18	26	38	42	41	40	33	15	6	27	34	34	A	19.5	42.5		
30-Jan-06	35	35	34	33	33	32	32	26	20	20	21	26	28	28	25	27	19	8	18	20	21	A	18	25.3	35.4		
31-Jan-06	18	16	10	8	11	5	3	2	1	5	9	9	8	7	8	7	4	2	3	2	1	1	1	1	5.8	17.7	
Hourly Avg	14.3	14.3	14.1	13.3	13.2	11.8	11.3	8.5	8.5	9.2	11.9	13.6	16.6	16.8	17.8	14.3	10.9	9.0	7.6	10.9	12.2	12.4	12.6	14.3			
Hourly Max	42.0	42.3	41.3	42.1	42.2	43.4	43.2	43.7	44.3	42.7	43.9	44.6	46.8	47.1	58.5	46.5	45.4	41.0	31.0	36.7	39.9	39.9	42.3	41.4			

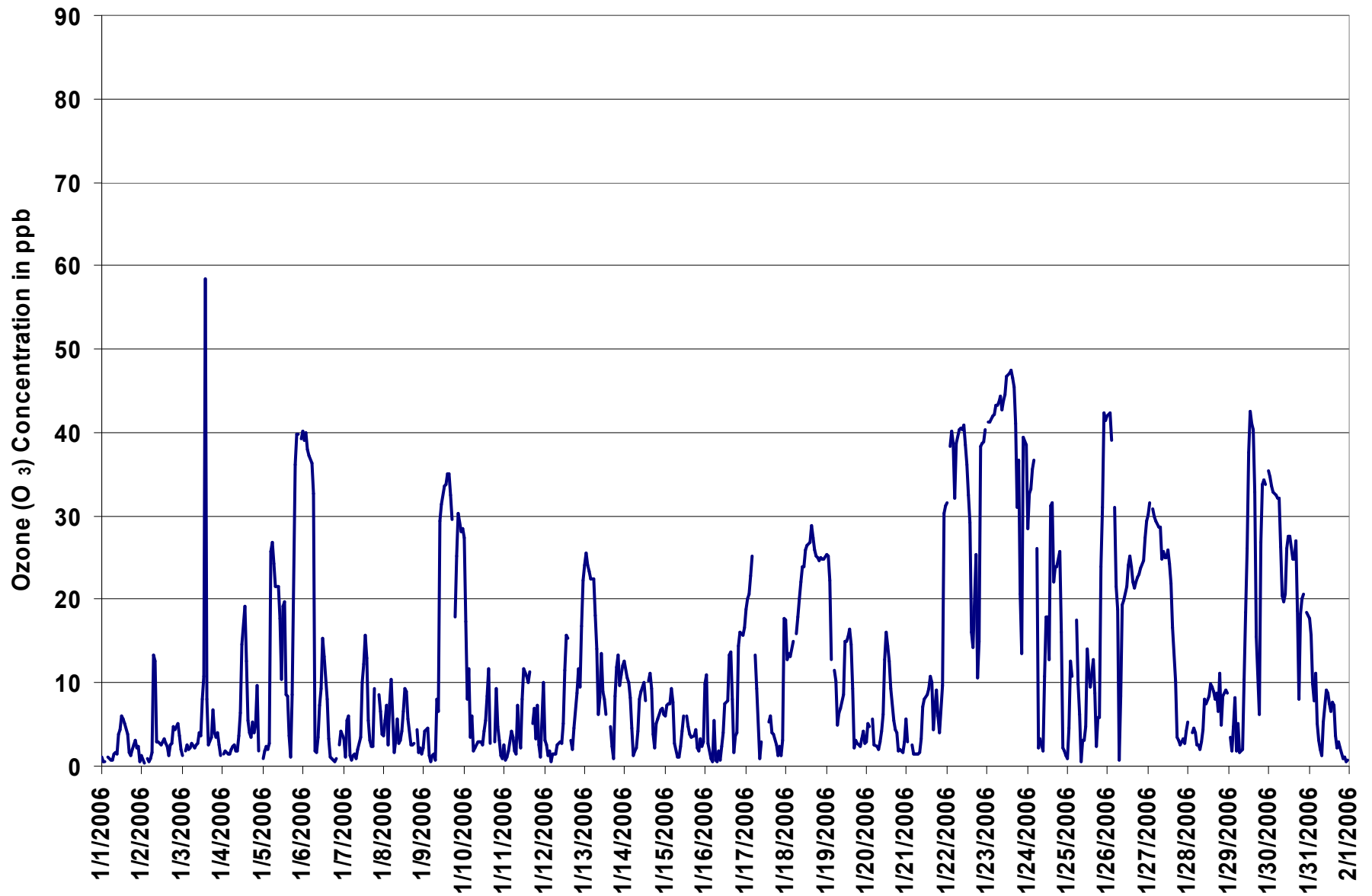
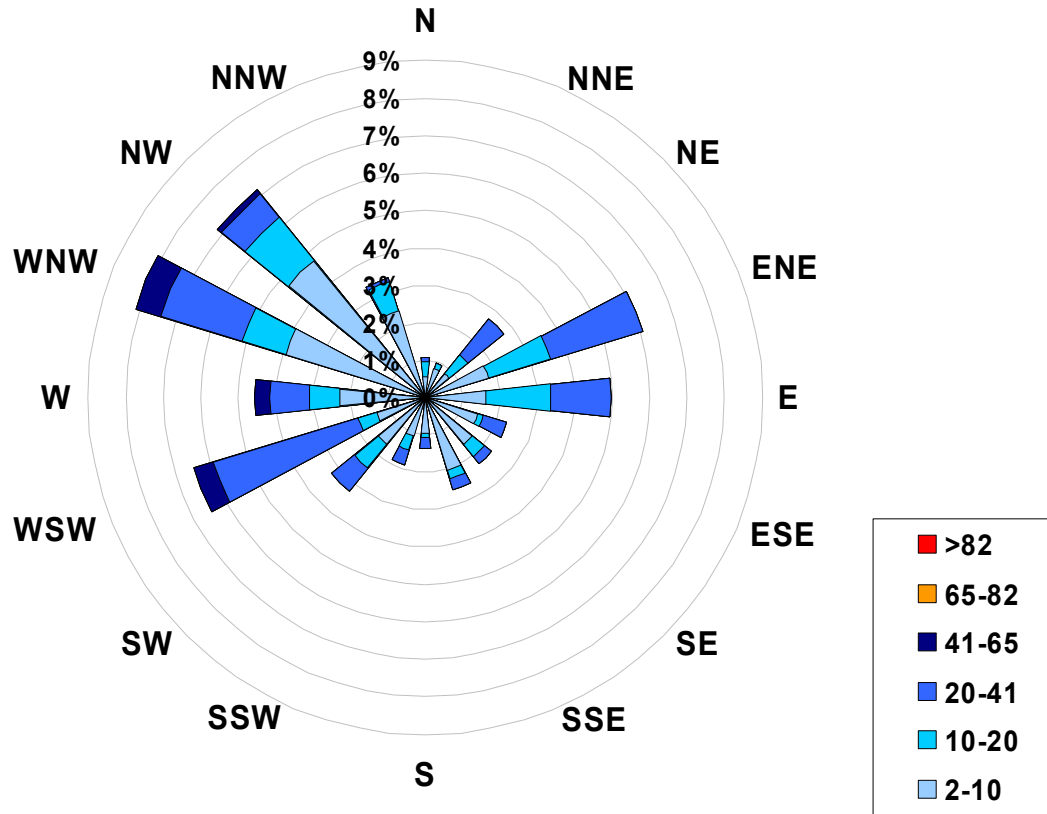


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	486
10	to	20	87
20	to	41	123
41	to	65	13
65	to	82	0
	>	82	0
Total Non-Zero Values			709

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

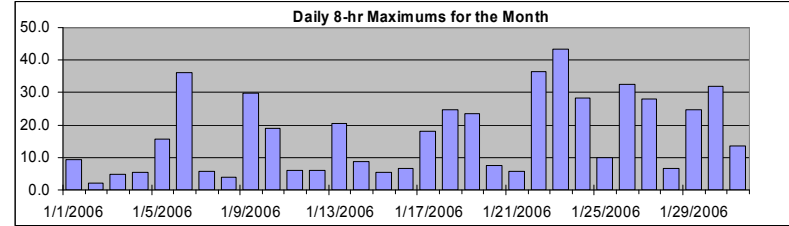
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	43.4	ppb	23-Jan	17:00	18:00		



Percentile	99	95	75	50	25	5	1
	41.3	31.4	15.0	4.8	2.1	0.8	0.3

Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jan-06	9	8	6	4	3	2	2	0	0	0	0	1	1	1	2	2	3	3	3	3	3	2	2	1	1	9.2	
2-Jan-06	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2.1
3-Jan-06	2	2	2	2	2	2	1	1	1	1	2	2	2	2	3	4	5	5	5	5	5	4	3	2		4.8	
4-Jan-06	2	2	2	1	1	1	1	1	1	1	1	1	2	2	4	5	5	5	5	5	5	4	3	2		5.3	
5-Jan-06	2	1	1	1	1	1	3	5	8	10	12	14	14	16	16	14	12	10	8	6	7	10	13	14		15.8	
6-Jan-06	19	24	29	34	36	35	34	31	27	22	18	14	11	8	6	4	4	4	4	4	3	2	1	0		36.1	
7-Jan-06	0	0	0	1	1	1	1	1	1	1	1	1	1	2	4	5	6	6	6	6	5	4	3	2		5.8	
8-Jan-06	2	2	2	2	2	2	3	3	3	3	3	2	3	3	3	4	4	4	4	4	4	3	3	2		4.0	
9-Jan-06	1	1	1	2	1	1	1	1	1	1	1	4	7	11	15	19	23	26	29	30	28	26	24	21		29.7	
10-Jan-06	19	17	15	13	13	10	8	6	5	3	2	2	1	1	2	2	3	3	4	4	4	4	3	3		19.0	
11-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5	5	6	6	6	6	4	3	2		6.0	
12-Jan-06	1	1	1	1	1	1	1	1	0	1	1	1	1	2	3	5	5	6	5	6	6	6	5	4		5.9	
13-Jan-06	6	9	12	14	16	18	20	21	19	17	14	12	11	9	7	6	5	5	4	3	4	4	5	5		20.6	
14-Jan-06	6	7	8	9	8	7	6	5	4	3	3	3	3	4	4	6	7	7	7	6	5	5	4		8.6		
15-Jan-06	4	3	4	5	5	5	6	5	4	4	4	3	3	2	2	2	3	3	3	3	2	2	2	1		5.6	
16-Jan-06	1	1	1	1	1	1	1	1	1	1	0	0	1	1	2	3	4	5	5	5	5	5	6	7		6.5	
17-Jan-06	7	9	11	13	16	18	18	17	16	13	11	N	N	N	N	N	N	N	N	N	N	2	2	1		18.2	
18-Jan-06	2	3	5	6	7	9	10	12	13	14	15	17	18	20	20	22	23	24	24	25	25	25	24	24		24.7	
19-Jan-06	23	23	23	22	20	20	18	16	13	9	7	5	5	6	7	8	9	9	9	9	7	6	4	3		23.4	
20-Jan-06	2	1	1	2	2	2	2	2	2	2	2	2	3	4	6	7	7	8	7	7	6	5	3	2		7.6	
21-Jan-06	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	5	5	6	6	5	5	4	3	6		5.8	
22-Jan-06	8	11	13	17	22	27	31	32	34	36	36	36	36	35	35	33	30	25	22	18	13	14	15	18		36.3	
23-Jan-06	21	24	28	33	39	40	40	41	41	41	41	41	41	42	42	43	43	43	41	39	37	33	28	26		43.4	
24-Jan-06	23	20	21	22	23	25	28	26	23	20	16	12	9	6	7	8	11	13	15	16	16	15	14	11		28.4	
25-Jan-06	8	6	4	4	3	3	4	4	4	4	4	3	3	4	3	4	5	5	5	5	5	6	10		9.9		
26-Jan-06	14	18	23	27	31	33	32	28	22	17	14	11	12	11	13	15	17	19	20	20	21	21	20	21		32.6	
27-Jan-06	22	23	24	25	26	27	28	28	27	26	25	25	24	23	23	22	21	19	16	14	11	8	6	4		27.9	
28-Jan-06	2	2	2	2	2	3	3	2	2	2	2	2	3	3	4	5	6	7	7	7	7	6	6	5		6.8	
29-Jan-06	5	4	4	4	3	3	3	2	2	2	2	3	6	9	14	19	23	24	25	24	22	22	21	20		24.8	
30-Jan-06	18	21	25	29	31	32	32	31	30	28	25	24	23	22	21	20	20	21	21	19	18	17	16	15		31.8	
31-Jan-06	14	13	13	13	11	10	8	7	5	3	2	2	3	3	3	4	5	5	5	4	4	3	2	1		13.7	

Hourly Max	23.4	24.2	29.0	33.8	38.6	39.7	40.3	40.8	41.2	41.3	41.5	41.3	41.4	41.8	42.3	42.8	43.2	43.4	41.3	38.5	36.8	33.1	27.9	26.0
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PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

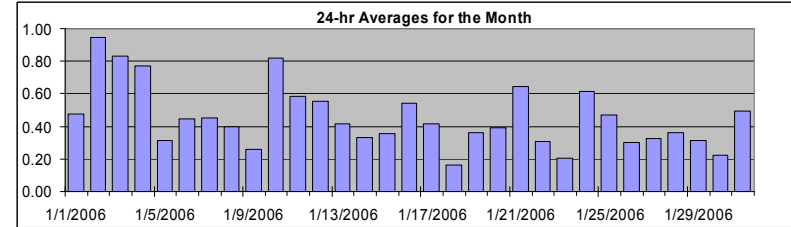
Monitoring Dates: January 1, 2006 to February 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	3.4 ppm	21-Jan	19:00	20:00
Maximum 24-hr Value:	0.9 ppm	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
	2.0	1.2	0.5	0.3	0.2	0.2	0.1	0.5 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																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	0.6	0.4	0.3	A	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.6	0.7	0.9	0.8	0.6	0.5	0.3	0.3	0.48	0.95
2-Jan-06	0.3	0.3	A	0.3	0.3	0.3	0.4	1.2	1.3	0.8	1.0	0.9	0.6	0.6	0.5	0.5	0.5	1.2	1.6	1.8	2.5	2.5	1.8	0.7	0.95	2.48	
3-Jan-06	0.4	A	0.4	0.5	0.5	0.6	0.8	0.7	0.7	1.1	1.0	0.9	0.5	0.5	0.4	0.4	1.1	1.6	2.2	1.4	1.3	1.2	0.7	0.5	0.83	2.16	
4-Jan-06	A	0.3	0.4	0.4	0.3	0.3	0.6	0.6	0.5	0.4	0.3	0.4	0.5	0.3	0.5	0.5	0.8	1.8	2.8	1.7	1.3	1.2	1.1	A	0.77	2.82	
5-Jan-06	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.5	0.4	0.4	0.5	0.4	0.5	0.3	0.2	A	0.1	0.32	0.53	
6-Jan-06	0.1	0.2	0.2	0.1	0.2	0.2	0.3	0.8	0.9	0.9	0.7	0.6	0.6	0.4	0.7	0.7	0.5	0.4	0.4	0.4	0.4	A	0.3	0.4	0.45	0.95	
7-Jan-06	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.4	0.3	0.5	0.3	0.3	0.2	0.3	0.4	0.6	0.6	0.8	0.9	A	0.5	0.3	0.2	0.45	0.86	
8-Jan-06	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.6	0.4	0.4	0.2	0.2	0.3	0.9	0.8	1.1	A	0.7	0.6	0.6	0.5	0.40	1.11	
9-Jan-06	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	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	0.3	0.3	0.26	0.45	
10-Jan-06	0.2	0.4	0.6	0.4	0.4	0.8	0.7	1.1	2.0	1.0	0.7	0.6	0.7	0.5	0.3	0.3	0.5	A	1.1	1.7	1.8	1.6	1.0	0.6	0.82	1.99	
11-Jan-06	0.5	0.3	0.3	0.2	0.2	0.2	0.5	0.6	0.9	1.1	0.7	0.4	0.3	0.3	0.3	A	0.8	1.2	1.3	1.0	1.0	0.5	0.4	0.58	1.33		
12-Jan-06	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.5	0.9	1.0	0.9	0.7	0.5	0.4	0.4	A	0.6	1.3	0.5	0.5	0.4	0.7	0.4	0.3	0.56	1.30	
13-Jan-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	A	0.5	0.7	0.7	0.6	0.4	0.4	0.5	0.4	0.4	0.42	0.72	
14-Jan-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	A	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.33	0.43	
15-Jan-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	A	0.3	0.3	0.4	0.5	0.5	0.6	0.5	0.3	0.3	0.3	0.4	0.35	0.58	
16-Jan-06	0.4	0.6	0.7	0.5	0.4	0.5	0.4	0.5	0.7	0.5	0.5	0.6	0.8	0.7	0.6	0.4	0.4	0.7	0.8	0.8	0.6	0.4	0.3	0.3	0.54	0.85	
17-Jan-06	0.2	0.2	0.2	0.2	0.2	A	0.2	0.4	0.4	0.4	0.4	0.5	C	C	C	A	0.7	0.9	0.6	0.6	0.4	0.4	0.5	0.3	0.41	0.94	
18-Jan-06	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.16	0.23	
19-Jan-06	0.1	0.1	0.2	0.2	A	0.2	0.3	0.8	1.2	0.5	0.4	0.4	0.3	0.2	0.2	0.3	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.36	1.24	
20-Jan-06	0.3	0.2	0.2	A	0.2	0.3	0.5	0.5	0.7	0.7	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.39	0.72	
21-Jan-06	0.3	0.3	A	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	2.0	3.4	2.0	1.2	0.1	0.2	0.65	3.41	
22-Jan-06	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.9	0.3	0.8	1.0	0.2	0.2	0.2	0.2	0.30	1.05	
23-Jan-06	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.2	0.4	0.21	0.39	
24-Jan-06	0.3	0.2	0.2	0.2	0.2	A	0.3	1.1	1.7	1.5	0.8	0.4	0.5	0.7	0.3	0.3	0.4	0.4	0.4	0.3	0.4	1.2	1.3	1.1	0.61	1.69	
25-Jan-06	0.5	0.2	0.2	0.2	A	0.2	0.2	0.3	0.4	0.4	0.7	0.8	0.7	0.4	0.3	0.4	0.6	1.2	1.4	0.4	0.3	0.2	0.2	0.2	0.47	1.42	
26-Jan-06	0.2	0.2	0.2	A	0.2	0.4	0.6	0.9	1.5	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	0.2	0.30	1.48	
27-Jan-06	0.1	0.2	A	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.6	0.7	0.5	0.4	0.3	0.33	0.71	
28-Jan-06	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.7	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.36	0.74	
29-Jan-06	A	0.6	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.4	0.4	0.7	0.5	0.3	0.2	0.2	A	0.31	0.71	
30-Jan-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	A	0.3	0.23	0.41	
31-Jan-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.4	0.5	0.8	1.2	1.2	0.9	0.7	0.6	0.7	0.7	0.4	0.4	0.4	0.1	0.49	1.18	
Hourly Avg	0.29	0.27	0.28	0.27	0.26	0.30	0.35	0.49	0.63	0.50	0.45	0.42	0.42	0.38	0.37	0.37	0.49	0.62	0.83	0.79	0.64	0.61	0.46	0.34			
Hourly Max	0.56	0.59	0.67	0.57	0.54	0.80	0.77	1.20	1.99	1.46	1.01	0.89	0.85	1.15	1.18	0.90	1.06	1.77	2.82	3.41	2.48	2.48	1.80	1.07			

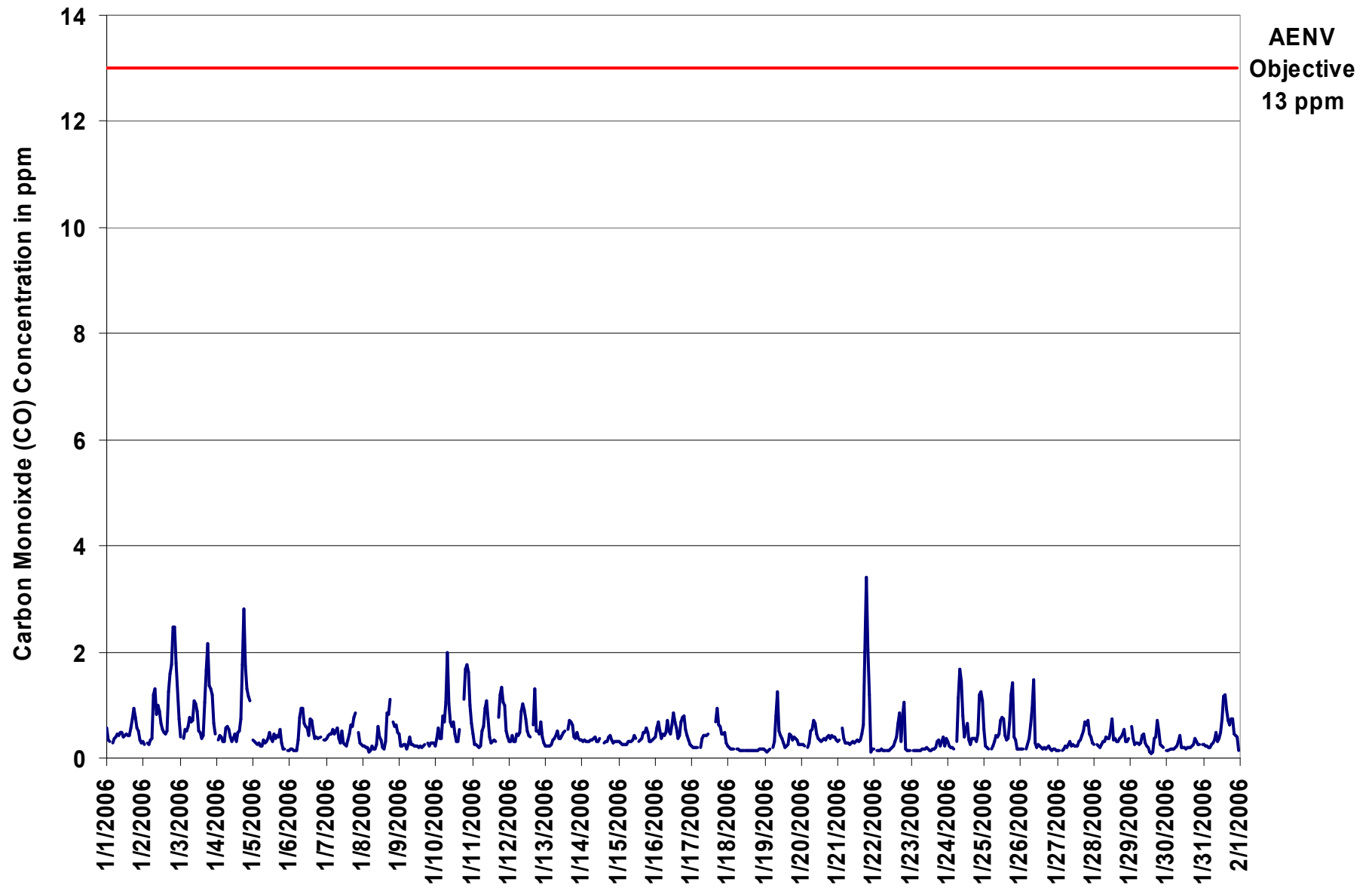


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

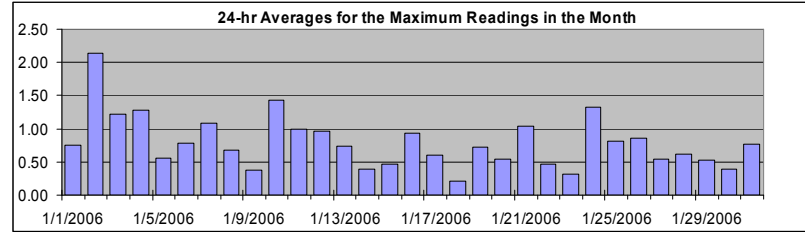
Carbon Monoxide (CO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	10.0	ppm	2-Jan	7:00 8:00
Maximum 24-hr Value:	2.1	ppm	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
	4.1	2.3	0.9	0.5	0.3	0.2	0.2	0.8 ppm	0.5 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	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-06	1.1	0.4	0.4	A	0.3	0.4	0.4	0.6	0.5	0.7	1.1	0.5	0.6	0.6	0.7	0.6	0.8	0.9	1.4	1.8	1.4	1.3	0.5	0.4	0.75	1.79	
2-Jan-06	0.4	0.4	A	0.4	0.3	2.2	0.6	10.0	8.6	1.1	3.4	1.4	1.0	0.6	0.6	0.5	0.9	1.8	2.2	2.8	3.0	3.3	2.5	1.1	2.13	10.01	
3-Jan-06	0.5	A	0.5	0.6	0.6	0.7	1.1	1.2	1.3	2.0	1.4	1.2	0.6	0.6	0.5	0.6	1.4	2.3	2.9	2.6	2.4	2.1	0.8	0.5	1.23	2.88	
4-Jan-06	A	0.4	0.7	0.5	0.4	0.5	1.2	1.3	0.8	0.5	0.4	0.4	0.6	0.4	0.8	0.7	1.2	3.5	4.1	4.1	2.3	1.8	1.4	A	1.28	4.15	
5-Jan-06	0.5	0.6	0.4	0.3	0.3	0.4	0.4	0.8	0.4	0.7	1.9	0.8	0.7	0.5	0.7	0.5	0.5	0.9	0.5	0.2	0.2	A	0.1	0.56	1.91		
6-Jan-06	0.2	0.2	0.3	0.1	0.2	0.2	0.7	1.6	1.8	2.0	1.0	1.2	0.8	0.6	1.0	1.7	0.7	0.6	0.5	0.7	0.5	A	0.4	1.0	0.79	1.98	
7-Jan-06	0.7	0.5	3.5	2.8	1.6	0.6	1.3	1.1	0.6	0.7	1.8	0.5	0.5	0.3	0.6	0.6	1.0	0.8	1.4	1.7	A	1.2	0.5	0.3	1.08	3.52	
8-Jan-06	0.3	0.6	0.5	0.4	0.2	0.3	0.5	0.3	0.2	1.0	0.8	0.7	0.7	0.3	0.3	0.6	1.8	1.0	1.5	A	1.1	0.9	0.8	0.8	0.67	1.79	
9-Jan-06	0.6	0.3	0.2	0.3	0.3	0.2	0.6	0.6	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	A	0.4	0.4	0.6	0.6	0.5	0.5	0.38	0.68	
10-Jan-06	0.4	0.6	0.9	0.5	0.5	2.3	1.4	2.0	4.2	2.4	1.5	1.0	1.0	0.7	0.4	0.7	0.9	A	1.6	2.8	2.9	2.2	1.2	0.8	1.42	4.22	
11-Jan-06	0.8	0.3	0.3	0.3	0.2	0.3	0.8	1.2	2.1	2.5	1.2	0.6	0.4	0.4	0.5	0.9	A	1.5	2.2	1.8	1.4	1.5	0.9	0.7	1.00	2.46	
12-Jan-06	0.5	0.4	0.5	0.4	0.4	0.9	0.7	0.7	1.6	1.9	1.2	1.1	0.8	0.6	0.6	A	1.6	3.7	0.7	0.8	0.6	1.1	0.9	0.3	0.96	3.73	
13-Jan-06	0.3	0.3	0.2	0.3	0.3	1.6	1.7	0.9	1.2	0.6	0.6	0.7	0.6	0.6	A	0.7	0.9	0.8	1.1	0.5	0.5	1.3	0.6	0.5	0.73	1.74	
14-Jan-06	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.4	0.4	A	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.39	0.51	
15-Jan-06	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	A	0.4	0.4	0.5	1.0	0.6	0.9	0.6	0.5	0.5	0.4	0.5	0.46	1.03	
16-Jan-06	0.9	0.9	0.9	0.6	0.5	0.9	0.7	0.8	1.9	0.9	0.6	1.0	1.3	0.8	0.9	0.5	0.8	1.9	2.1	1.2	0.9	0.5	0.4	0.3	0.93	2.14	
17-Jan-06	0.2	0.3	0.2	0.3	0.3	A	0.3	0.6	0.6	0.5	0.5	0.5	C	C	C	A	0.9	1.6	1.0	1.1	0.6	0.7	0.9	0.3	0.61	1.59	
18-Jan-06	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.21	0.27	
19-Jan-06	0.2	0.2	0.4	0.2	A	0.7	0.5	3.0	2.9	1.0	0.6	0.6	0.4	0.3	0.3	0.4	1.2	0.6	0.8	0.6	0.6	0.6	0.5	0.4	0.72	2.97	
20-Jan-06	0.3	0.4	0.3	A	0.2	0.4	1.0	0.8	0.8	0.8	0.5	0.5	0.4	0.4	0.7	0.7	0.5	0.7	0.6	0.5	0.6	0.6	0.5	0.5	0.54	0.98	
21-Jan-06	0.5	0.5	A	0.7	0.6	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	2.1	3.2	4.4	3.5	2.9	0.3	0.3	1.04	4.41
22-Jan-06	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.7	1.2	1.2	0.4	1.5	1.9	0.5	0.2	0.2	0.2	0.47	1.95
23-Jan-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.8	0.7	0.7	0.4	0.6	0.4	0.5	0.31	0.84	
24-Jan-06	0.5	0.3	0.3	0.2	0.2	A	0.4	8.8	3.1	2.2	1.2	0.6	0.8	2.5	0.8	0.4	0.5	0.5	0.5	0.4	0.8	1.9	2.2	1.5	1.32	8.81	
25-Jan-06	0.9	0.3	0.3	0.2	A	0.4	0.5	1.1	0.8	0.9	0.8	1.1	1.2	1.1	0.6	0.5	0.5	1.4	1.5	2.1	0.8	1.2	0.2	0.2	0.81	2.12	
26-Jan-06	0.3	0.2	0.2	A	0.2	2.7	2.0	5.3	2.8	1.3	0.3	0.7	0.7	0.3	0.2	0.3	0.2	0.3	0.6	0.2	0.3	0.2	0.4	0.2	0.86	5.26	
27-Jan-06	0.2	0.2	A	0.3	0.2	0.7	0.3	0.6	0.6	0.5	0.5	0.3	0.5	0.4	0.4	0.4	0.6	0.7	0.9	1.6	1.3	0.8	0.5	0.4	0.55	1.58	
28-Jan-06	0.3	A	0.4	0.3	0.3	0.3	0.6	0.4	0.6	0.6	0.6	0.6	0.8	2.5	0.5	0.4	0.4	0.4	0.7	0.6	0.7	1.1	0.4	0.7	0.6	0.61	2.45
29-Jan-06	A	0.7	0.6	0.3	0.7	0.4	0.3	0.5	0.6	0.7	0.4	0.3	0.3	0.1	0.1	0.2	1.3	0.6	1.2	1.1	0.4	0.5	0.4	A	0.53	1.29	
30-Jan-06	0.2	0.2	0.2	0.2	0.2	0.3	0.7	0.8	1.1	0.4	0.3	0.3	0.2	0.6	0.2	0.3	0.3	0.3	0.5	0.8	0.3	0.4	A	0.4	0.40	1.05	
31-Jan-06	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.6	0.4	0.5	0.8	0.9	1.4	1.5	1.0	1.3	1.0	1.9	1.6	0.9	0.8	0.8	0.2	0.78	1.91	
Hourly Avg	0.44	0.38	0.50	0.42	0.36	0.68	0.67	1.51	1.36	0.91	0.82	0.64	0.66	0.58	0.54	0.56	0.80	1.09	1.33	1.35	1.01	1.02	0.71	0.49			
Hourly Max	1.08	0.90	3.52	2.77	1.60	2.73	1.99	10.01	8.61	2.46	3.44	1.41	2.45	2.54	1.53	1.69	1.79	3.73	4.15	4.41	3.49	3.26	2.49	1.53			

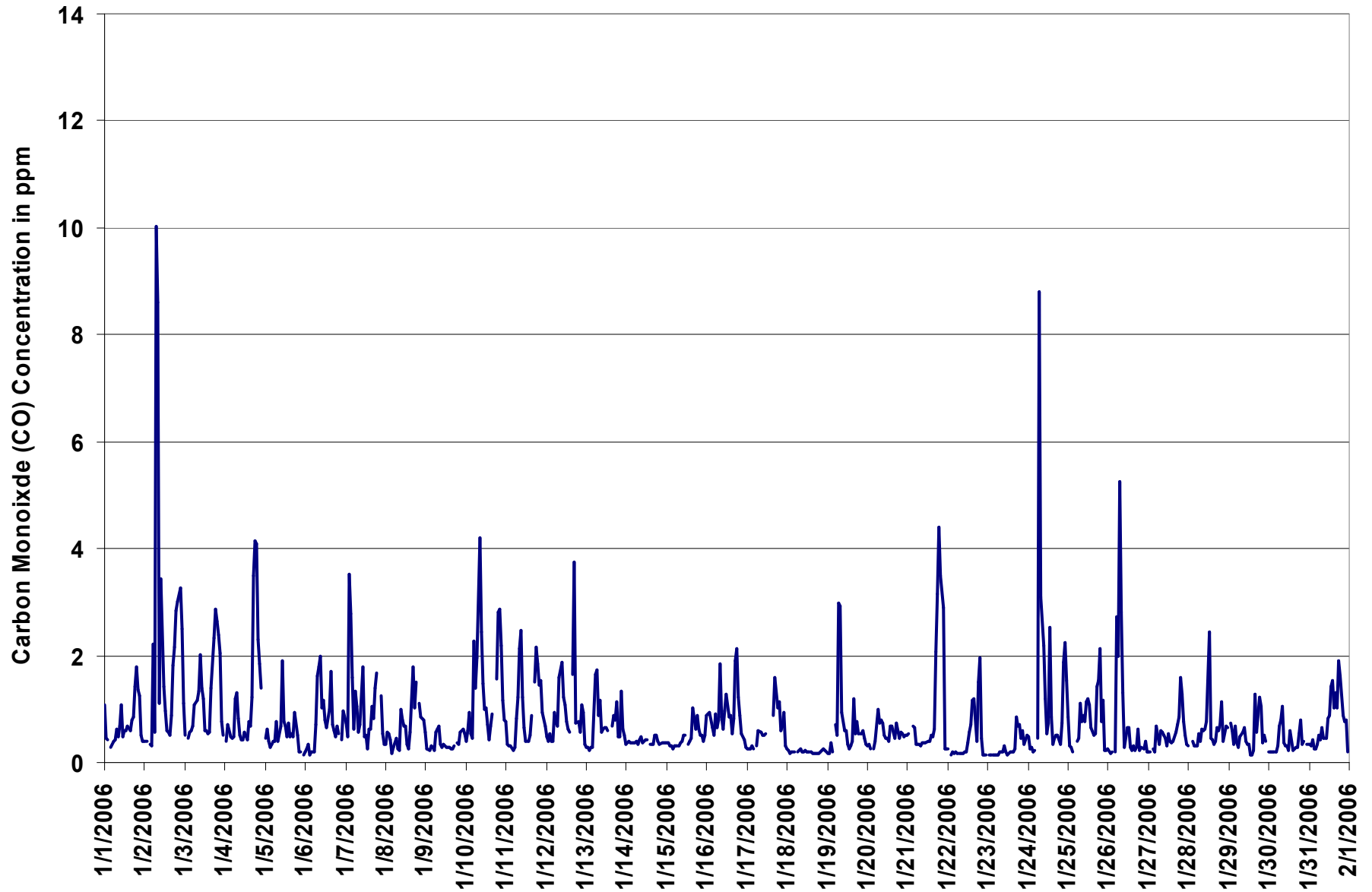
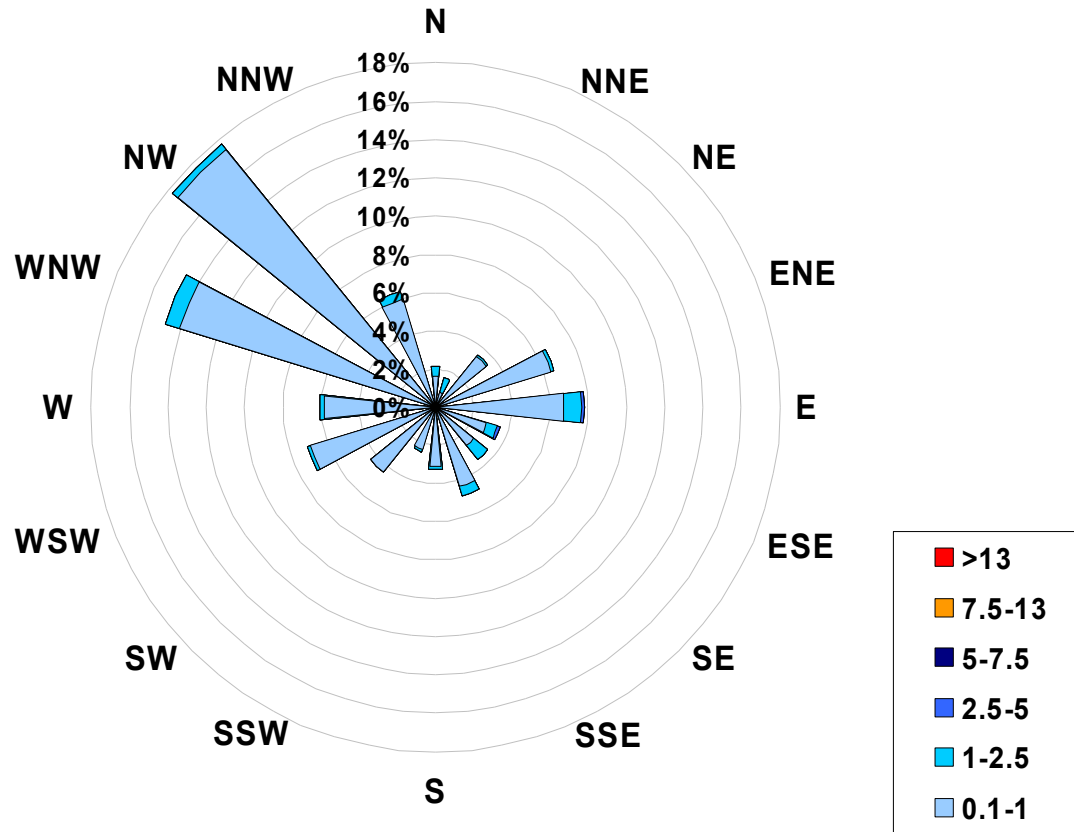


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			
Range		Frequency (hrs)	
0.1	< 1	656	
1	to 2.5	51	
2.5	to 5	2	
5	to 7.5	0	
7.5	to 13	0	
	> 13	0	
Total Non-Zero Values			709

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

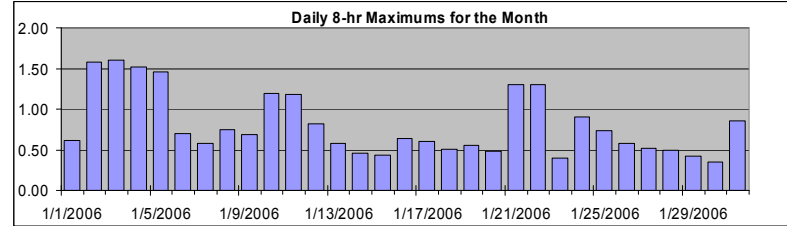
Carbon Monoxide (CO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	1.6	ppm	3-Jan	1:00 2:00



Percentile	99	95	75	50	25	5	1
	1.4	0.9	0.6	0.4	0.3	0.2	0.2

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
1-Jan-06	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
2-Jan-06	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.9	1.1	1.4	1.5	1.6	1.6
3-Jan-06	1.6	1.6	1.4	1.3	1.0	0.7	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.2	1.2
4-Jan-06	1.3	1.1	0.8	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.9	1.1	1.2	1.3	1.4	1.5	1.5
5-Jan-06	1.5	1.2	0.9	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
6-Jan-06	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4
7-Jan-06	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.5
8-Jan-06	0.5	0.4	0.4	0.3	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	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7
9-Jan-06	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
10-Jan-06	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.6	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.2
11-Jan-06	1.2	1.1	1.0	0.8	0.6	0.4	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.8	0.9	0.9	0.9	0.9
12-Jan-06	0.8	0.8	0.7	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
13-Jan-06	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5
14-Jan-06	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
15-Jan-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
16-Jan-06	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
17-Jan-06	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	N	N	N	N	N	N	N	N	N	N	0.6	0.6	0.6
18-Jan-06	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
19-Jan-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
20-Jan-06	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.4	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	0.4	0.4
21-Jan-06	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	1.0	1.2	1.3	1.3	1.3	1.3
22-Jan-06	1.2	1.3	1.0	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.5
23-Jan-06	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	0.3	0.3	0.3	0.3
24-Jan-06	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.7
25-Jan-06	0.7	0.7	0.7	0.6	0.7	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6
26-Jan-06	0.6	0.5	0.4	0.2	0.2	0.2	0.3	0.4	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27-Jan-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5
28-Jan-06	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
29-Jan-06	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4
30-Jan-06	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
31-Jan-06	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.8	0.7	0.6	0.5	0.5

Daily Maximum
0.62
1.58
1.61
1.52
1.46
0.70
0.58
0.74
0.68
1.19
1.18
0.82
0.57
0.45
0.44
0.64
0.61
0.51
0.55
0.49
1.30
1.30
0.40
0.91
0.74
0.58
0.52
0.49
0.43
0.35
0.85

Hourly Max	1.56	1.61	1.43	1.26	0.97	0.70	0.56	0.55	0.78	0.86	0.87	0.90	0.94	0.89	0.88	0.77	0.73	0.80	0.94	1.11	1.21	1.38	1.54	1.58
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PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

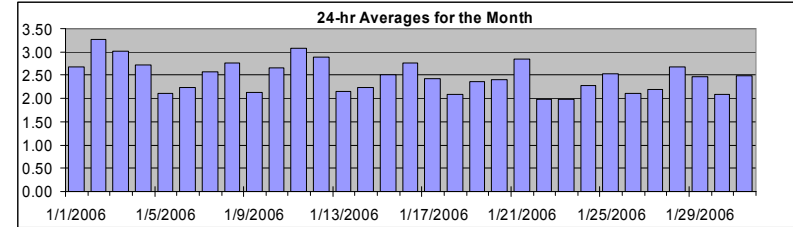
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Maximum 1-hr Average:	4.0	ppm	2-Jan	20:00 21:00
Maximum 24-hr Value:	3.3	ppm	2-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
	3.6	3.3	2.7	2.4	2.1	1.9	1.8	2.5 ppm	2.4 ppm

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum							
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	23:00				
1-Jan-06	2.5	2.4	2.4	A	2.4	2.4	2.6	2.6	2.6	2.7	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.8	2.9	3.3	2.9	2.9	2.8	2.7	2.6	2.6	2.6	2.8	2.7	2.6	2.68	3.25
2-Jan-06	2.7	2.7	A	2.9	2.9	3.1	3.1	3.5	3.6	3.4	3.6	3.4	3.2	3.2	2.9	2.9	2.8	3.3	3.6	3.7	4.0	3.9	3.5	3.3						3.26	4.01	
3-Jan-06	3.2	A	3.2	3.3	3.5	3.5	3.6	3.3	3.2	3.4	3.2	3.1	2.5	2.2	2.3	2.3	2.6	2.9	3.2	2.9	3.0	3.0	2.9	2.7	A				3.01	3.60		
4-Jan-06	A	2.9	3.1	3.2	2.9	2.7	2.9	3.0	2.8	2.5	2.5	2.5	2.3	2.2	2.3	2.3	2.4	2.9	3.3	2.8	2.7	2.7	2.7	A				2.71	3.31			
5-Jan-06	2.4	2.5	2.4	2.3	2.7	2.0	1.9	1.9	1.9	1.9	2.1	2.0	2.0	2.2	2.1	2.1	2.1	2.3	2.6	2.0	1.9	1.9	A	1.9				2.12	2.68			
6-Jan-06	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.3	2.8	2.4	2.3	2.2	2.2	2.1	2.4	2.4	2.3	2.3	2.3	2.4	2.5	A	2.2	2.3				2.23	2.82			
7-Jan-06	2.3	2.4	2.4	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.9	3.1	2.9	2.5	2.6	2.5	2.4	2.3	2.6	2.6	A	2.5	2.5	2.6				2.57	3.13		
8-Jan-06	2.6	2.7	2.8	2.8	2.7	2.9	3.0	2.9	2.9	3.1	3.1	2.8	2.6	2.4	2.3	2.5	2.7	2.8	2.9	A	2.7	2.7	2.8	2.7				2.76	3.15			
9-Jan-06	2.6	2.2	2.2	2.5	2.5	2.4	2.4	2.4	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0				2.13	2.64			
10-Jan-06	2.1	2.2	2.5	2.3	2.3	2.7	2.6	2.7	2.9	2.6	2.5	2.5	2.6	2.6	2.4	2.4	2.5	A	3.0	3.3	3.2	3.2	3.0	2.8				2.65	3.32			
11-Jan-06	2.8	2.7	2.8	3.0	3.1	3.4	3.6	3.2	3.1	3.5	3.2	3.1	2.9	2.8	2.8	2.7	A	2.9	3.0	3.1	3.6	3.5	2.9	3.0				3.08	3.64			
12-Jan-06	3.0	3.0	3.2	3.1	3.2	3.4	3.3	3.4	3.8	3.8	3.6	3.2	2.7	2.4	2.3	A	2.6	2.7	2.4	2.2	2.2	2.7	2.2	2.1				2.89	3.81			
13-Jan-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.4	A	2.3	2.4	2.4	2.3	2.1	2.1	2.2	2.2	2.2				2.14	2.40			
14-Jan-06	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.3	A	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3				2.23	2.35			
15-Jan-06	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.5	A	2.5	2.6	2.7	2.7	2.7	2.9	2.8	2.7	2.6	2.6	2.6				2.50	2.91			
16-Jan-06	2.7	3.1	3.1	3.1	3.0	3.0	2.9	2.9	3.1	3.1	3.0	3.0	2.8	2.8	2.6	2.4	2.5	2.6	2.8	2.7	2.5	2.3	2.3	2.2				2.77	3.12			
17-Jan-06	2.2	2.1	2.1	2.1	2.1	A	2.1	2.3	2.4	2.4	2.4	2.4	2.3	2.8	2.7	2.5	2.5	2.8	2.6	2.6	2.5	2.6	2.6	2.4				2.42	2.79			
18-Jan-06	2.2	2.2	2.2	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1				2.09	2.22			
19-Jan-06	2.1	2.1	2.1	2.1	A	2.2	2.2	2.3	2.6	2.4	2.5	2.4	2.4	2.4	2.3	2.2	2.4	2.3	2.4	2.5	2.5	2.5	2.6	2.7				2.36	2.71			
20-Jan-06	2.7	2.7	3.1	A	2.8	2.7	2.7	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.2				2.40	3.05			
21-Jan-06	2.2	2.4	A	3.0	2.7	2.5	2.4	2.4	2.7	2.9	3.0	3.2	3.3	3.3	3.2	3.1	3.1	3.0	3.6	4.0	3.1	2.6	1.9	1.9				2.85	4.01			
22-Jan-06	1.9	A	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.9	2.0	2.1	2.3	2.3	2.0	2.4	2.6	1.8	1.8	1.8	1.8				1.98	2.62			
23-Jan-06	A	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	C	C	C	C	A	2.0	2.1	2.1	2.0	2.1	2.2	2.0	2.1				1.99	2.21			
24-Jan-06	2.1	2.0	2.0	1.9	1.9	A	2.0	2.3	2.8	2.5	2.4	2.1	2.3	2.4	2.1	2.0	2.1	2.1	2.1	2.0	2.3	2.8	3.0	3.1				2.28	3.07			
25-Jan-06	2.8	2.3	2.3	2.4	A	2.5	2.5	2.7	2.6	2.6	2.6	2.7	2.8	3.0	2.4	2.5	2.5	2.8	3.2	3.0	2.1	2.1	1.8	1.9				2.53	3.17			
26-Jan-06	1.9	1.9	2.0	A	2.1	2.1	2.2	2.5	2.9	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0				2.11	2.88			
27-Jan-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6				2.20	2.63		
28-Jan-06	2.7	A	2.7	2.8	3.1	3.3	3.2	3.0	3.1	3.0	2.9	2.7	2.8	2.6	2.5	2.4	2.3	2.2	2.2	2.3	2.4	2.4	2.4	2.5				2.67	3.32			
29-Jan-06	A	3.0	2.6	2.8	2.8	2.8	2.8	2.9	3.2	3.1	2.5	2.3	2.2	2.0	2.0	2.0	2.2	2.2	2.4	2.3	2.1	2.1	2.1	A				2.48	3.22			
30-Jan-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.1	2.1	A	2.1			2.08	2.26			
31-Jan-06	2.1	2.2	2.3	2.3	2.3	2.4	2.5	2.7	2.6	2.5	2.5	2.6	2.6	2.7	2.9	2.7	2.6	2.5	2.5	2.6	2.4	2.5	2.5	2.5				2.49	2.91			
Hourly Avg	2.37	2.36	2.41	2.46	2.48	2.53	2.51	2.54	2.63	2.57	2.54	2.52	2.45	2.43	2.38	2.37	2.38	2.47	2.64	2.55	2.49	2.49	2.43	2.39								
Hourly Max	3.19	3.08	3.21	3.30	3.47	3.54	3.64	3.45	3.75	3.81	3.56	3.43	3.35	3.29	3.17	3.10	3.13	3.32	3.62	4.01	4.01	3.87	3.55	3.27								

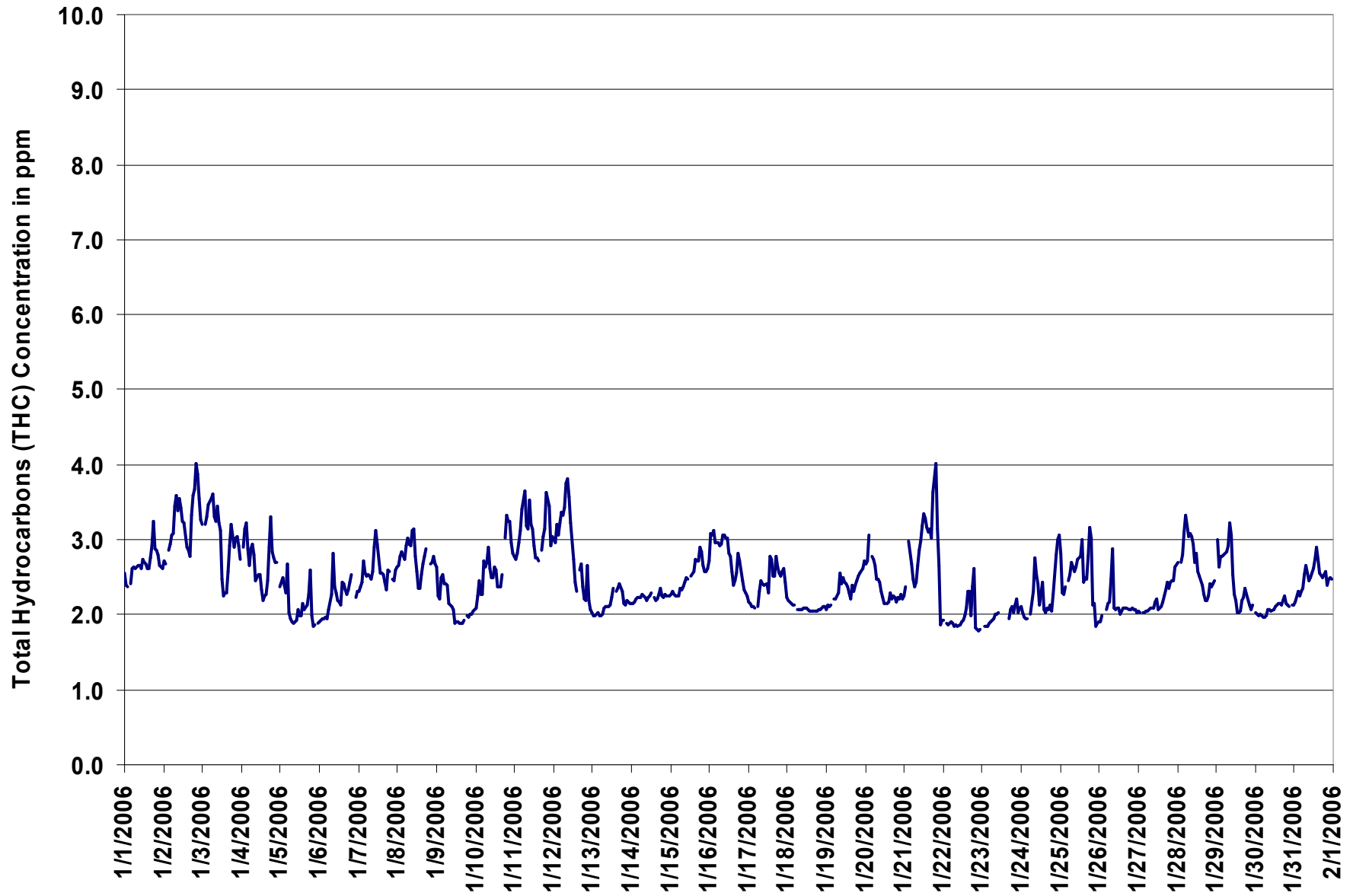


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

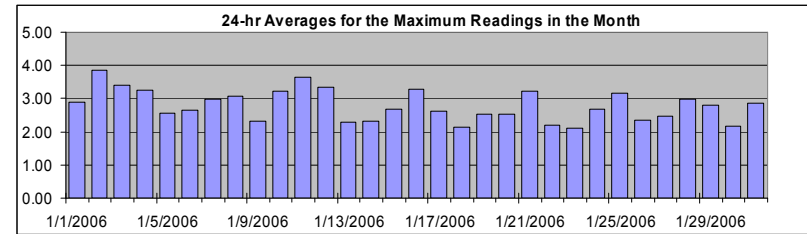
Total Hydrocarbons (THC)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	8.0	ppm	6-Jan	8:00 9:00
Maximum 24-hr Value:	3.8	ppm	2-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
	5.1	4.2	3.2	2.6	2.2	2.0	1.9	2.8 ppm	2.6 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	2.7	2.5	2.4	A	2.5	2.8	2.7	2.7	2.8	2.8	2.7	2.9	2.8	2.8	2.8	2.7	2.9	3.8	4.2	3.3	3.1	3.3	2.8	2.9	2.9	2.90	4.16
2-Jan-06	3.0	2.8	A	4.0	3.1	3.6	3.2	6.3	5.5	3.5	4.2	3.8	3.4	3.7	3.2	3.0	3.0	4.1	4.0	4.5	4.4	4.3	4.0	3.7	3.85	6.31	
3-Jan-06	3.3	A	3.4	3.4	3.6	3.8	4.1	3.5	4.2	3.6	3.5	3.3	2.9	2.5	2.5	2.5	2.8	3.8	3.8	3.9	3.4	3.9	3.7	2.8	3.40	4.20	
4-Jan-06	A	3.5	4.2	3.8	3.2	3.1	3.0	3.3	2.9	2.5	5.0	4.3	2.4	2.4	2.4	2.4	2.7	3.6	3.9	3.3	3.1	3.4	A	3.26	5.04		
5-Jan-06	2.7	3.1	2.5	3.0	6.7	2.2	2.0	2.1	1.9	2.0	2.3	2.4	2.2	2.3	2.4	2.2	2.3	2.8	3.3	2.3	1.9	1.9	A	1.9	2.55	6.75	
6-Jan-06	2.0	2.0	2.0	2.0	2.2	2.0	2.2	2.5	8.0	2.8	2.8	2.5	2.3	2.2	2.7	2.9	2.5	2.4	2.5	2.5	2.8	A	2.3	2.6	2.64	7.96	
7-Jan-06	2.7	2.6	3.1	4.6	3.2	3.0	3.1	3.2	3.2	2.8	3.1	3.3	3.2	2.7	2.6	2.7	2.6	2.6	3.2	3.2	A	2.8	2.6	2.8	2.99	4.56	
8-Jan-06	2.9	2.9	3.4	3.5	2.8	3.1	3.2	3.2	3.0	3.9	3.5	3.2	2.8	2.5	2.6	2.8	2.8	2.9	3.0	A	3.0	3.3	3.4	2.8	3.07	3.91	
9-Jan-06	2.8	2.3	2.3	3.9	2.7	2.5	2.5	2.5	2.3	2.2	2.9	1.9	2.0	2.0	1.9	1.9	1.9	2.0	A	2.0	2.0	2.2	2.3	2.2	2.32	3.88	
10-Jan-06	2.3	2.6	2.8	2.6	2.5	3.6	5.4	3.3	3.3	3.4	3.6	2.8	3.0	2.8	2.6	2.7	2.9	A	3.6	4.0	3.5	4.2	3.9	2.9	3.22	5.36	
11-Jan-06	3.2	3.0	3.0	3.3	3.3	3.5	4.7	3.7	3.8	5.1	3.5	3.4	3.0	2.9	2.9	3.0	A	4.2	4.1	3.5	5.1	4.5	3.3	3.7	3.63	5.12	
12-Jan-06	3.7	3.2	4.1	3.6	3.6	4.2	3.8	3.9	4.2	4.2	3.7	4.1	3.0	2.5	2.4	A	2.8	3.3	2.5	2.3	2.3	4.8	2.7	2.1	3.35	4.76	
13-Jan-06	2.1	2.0	2.0	2.1	2.0	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.4	3.1	A	2.4	2.5	2.5	2.7	2.2	2.2	2.3	2.2	2.2	2.30	3.06	
14-Jan-06	2.2	2.2	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	A	2.3	2.2	2.2	2.5	2.5	2.3	2.3	2.4	2.3	2.3	2.32	2.52	
15-Jan-06	2.3	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	A	2.6	2.7	3.1	3.0	3.0	4.1	3.2	2.8	2.7	2.8	2.9	2.67	4.12	
16-Jan-06	3.3	3.4	4.0	4.5	4.0	3.7	4.8	3.0	4.1	3.3	3.2	3.2	3.1	2.9	2.9	2.5	2.6	2.7	4.8	3.0	2.6	2.4	2.3	2.3	3.27	4.82	
17-Jan-06	2.2	2.2	2.1	2.2	2.1	A	2.3	2.5	2.5	2.5	2.4	2.5	2.4	3.4	2.9	2.7	2.6	3.6	2.9	2.9	2.8	2.9	3.1	2.7	2.63	3.64	
18-Jan-06	2.3	2.2	2.2	2.2	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.14	2.28	
19-Jan-06	2.1	2.3	2.2	2.2	A	2.3	2.3	2.5	3.2	2.9	2.6	2.5	2.5	2.4	2.4	2.3	2.6	2.4	2.6	2.9	2.8	2.7	2.8	2.8	2.53	3.16	
20-Jan-06	2.8	3.1	3.2	A	2.9	2.9	2.8	2.7	2.5	2.5	2.4	2.3	2.2	2.2	2.3	2.5	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.4	2.52	3.21	
21-Jan-06	2.4	2.6	A	4.3	4.8	2.6	2.5	2.5	2.7	2.9	3.1	3.3	3.4	3.4	3.4	3.2	3.3	3.5	4.6	4.3	3.9	3.4	2.0	2.0	3.22	4.75	
22-Jan-06	1.9	A	2.0	1.9	1.9	2.0	2.1	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.3	4.5	2.5	2.1	3.0	3.2	2.1	1.8	1.8	1.8	2.21	4.45	
23-Jan-06	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.0	2.1	C	C	C	C	A	2.0	2.3	2.4	2.2	2.2	2.4	2.3	2.3	2.11	2.43	
24-Jan-06	2.2	2.2	2.0	2.1	2.0	A	2.1	3.2	3.2	2.8	3.9	2.2	2.4	3.0	2.4	2.1	2.2	2.1	2.2	2.1	2.6	3.3	4.2	4.7	2.68	4.73	
25-Jan-06	4.1	3.2	2.5	3.2	A	2.8	2.9	3.0	2.9	2.9	3.5	3.0	3.1	5.7	2.6	3.0	4.7	4.7	3.7	3.7	2.4	2.5	1.9	1.9	3.16	5.73	
26-Jan-06	1.9	2.0	2.3	A	2.2	3.5	3.0	3.3	3.2	2.5	2.1	2.4	2.3	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.35	3.52	
27-Jan-06	2.1	2.1	A	2.1	2.1	2.4	2.1	2.2	2.2	2.2	2.5	2.6	2.2	2.2	2.1	2.2	2.5	2.4	2.9	3.3	3.3	3.8	2.6	2.8	2.48	3.80	
28-Jan-06	2.9	A	3.0	3.0	3.3	3.6	3.5	3.2	4.0	3.2	3.3	3.0	3.3	2.8	2.6	2.5	2.4	2.3	2.3	3.2	3.0	2.6	2.8	2.6	2.97	3.99	
29-Jan-06	A	5.1	3.3	3.0	3.4	3.1	3.2	3.2	4.1	3.3	2.6	2.4	2.3	2.0	2.1	2.1	2.6	2.4	2.5	2.6	2.2	2.1	2.2	A	2.80	5.08	
30-Jan-06	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.1	2.1	2.2	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.2	2.2	A	2.2	2.16	2.34	
31-Jan-06	2.2	2.3	3.7	2.8	3.0	2.5	3.3	2.9	2.6	2.8	2.6	2.8	2.9	3.0	3.2	2.8	2.7	3.1	3.3	3.1	2.6	2.7	2.9	2.8	2.86	3.68	
Hourly Avg	2.59	2.63	2.72	2.91	2.90	2.85	2.90	2.88	3.16	2.83	2.92	2.78	2.63	2.71	2.54	2.59	2.55	2.86	3.15	2.93	2.78	2.90	2.75	2.60			
Hourly Max	4.07	5.08	4.24	4.56	6.75	4.25	5.36	6.31	7.96	5.09	5.04	4.29	3.44	5.73	3.35	4.45	3.26	4.70	4.82	4.47	5.12	4.76	4.21	4.73			

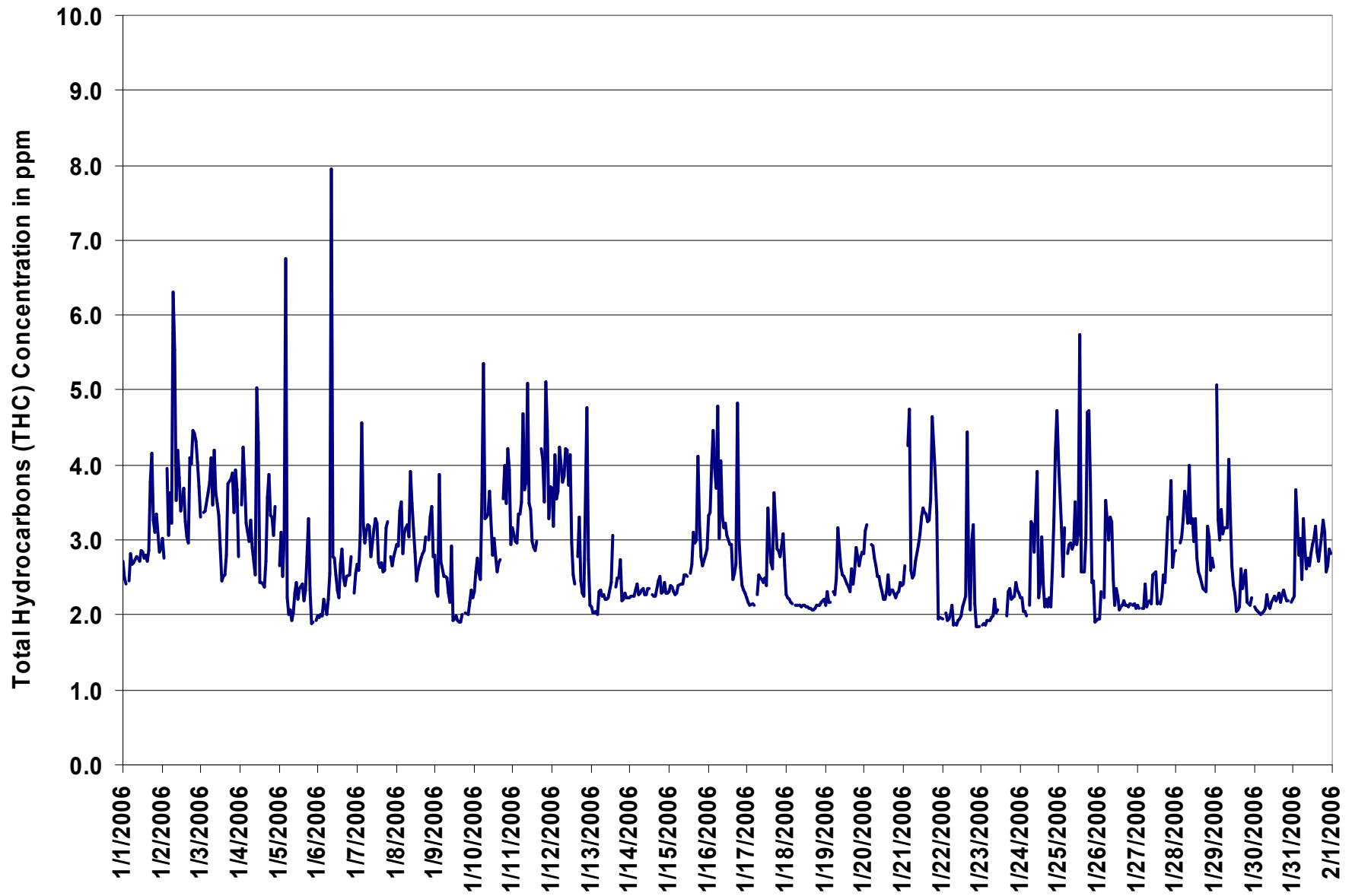
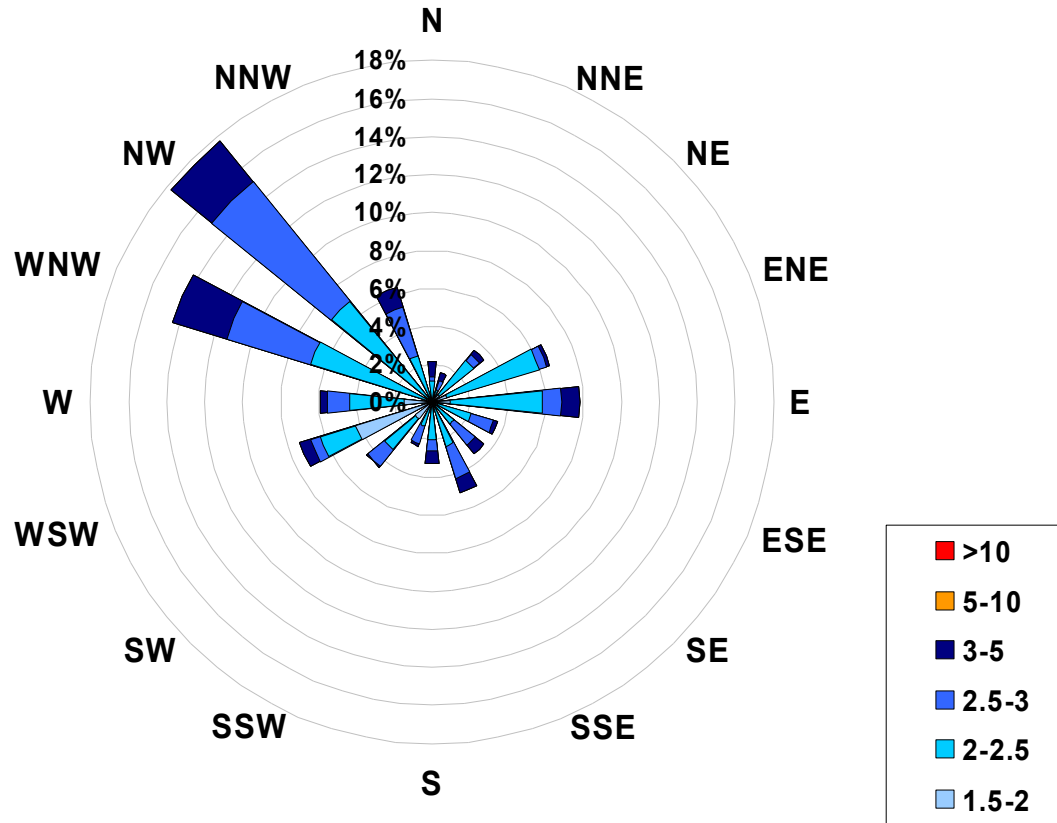


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		74
2	to 2.5		339
2.5	to 3		199
3	to 5		96
5	to 10		0
	> 10		0
Total Non-Zero Values			708

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

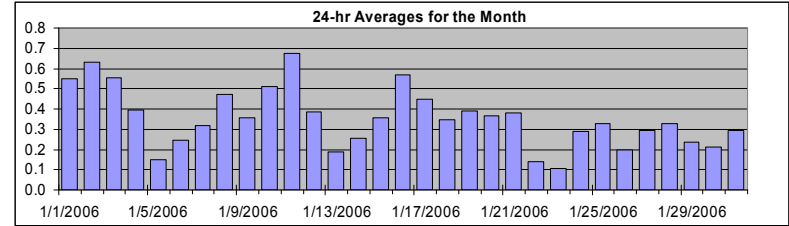
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Maximum 1-hr Average:	1.6	ppb	11-Jan	19:00 20:00
Maximum 24-hr Value:	0.7	ppb	11-Jan	



AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.8	0.5	0.3	0.2	0.1	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

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

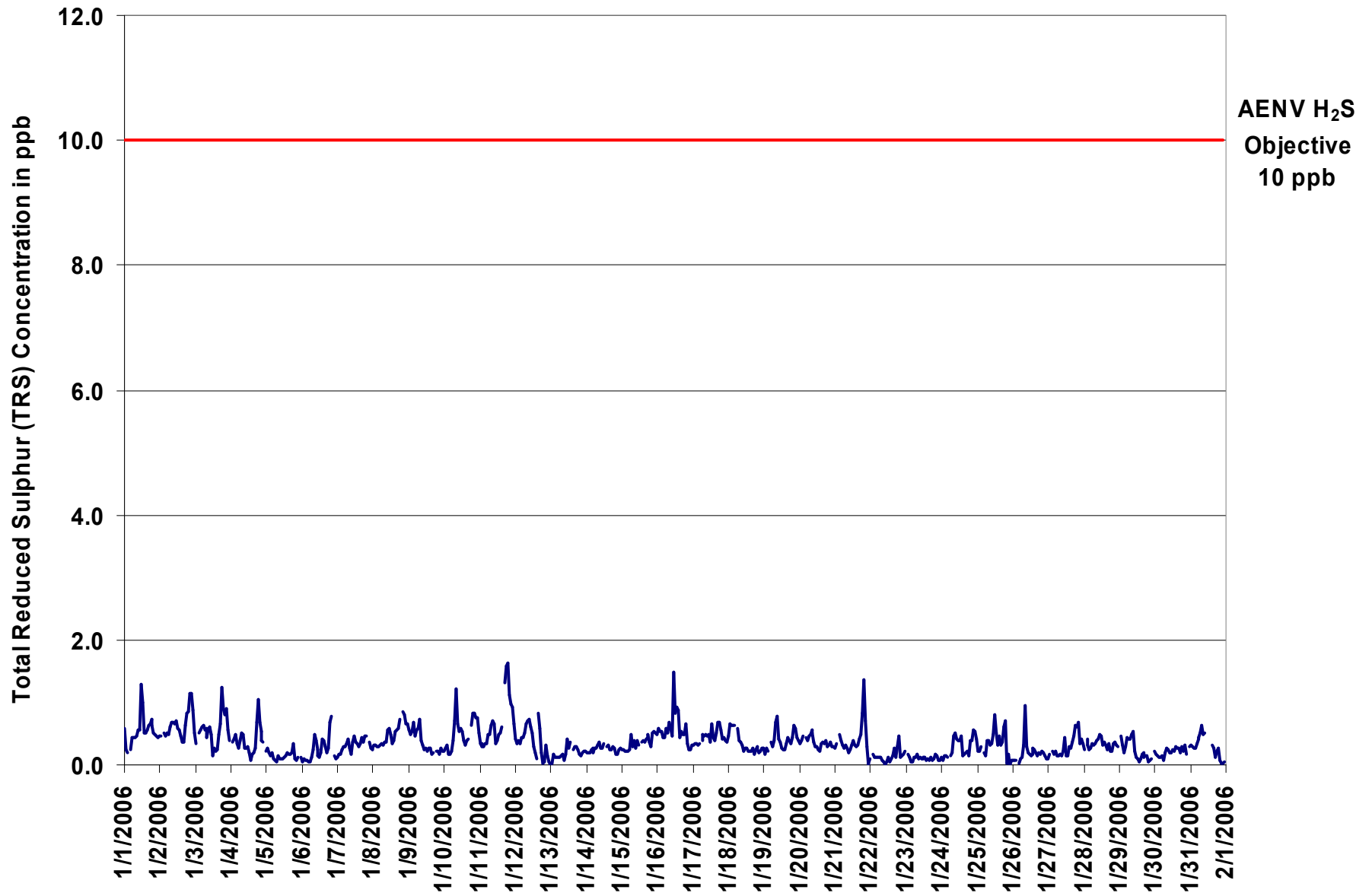


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

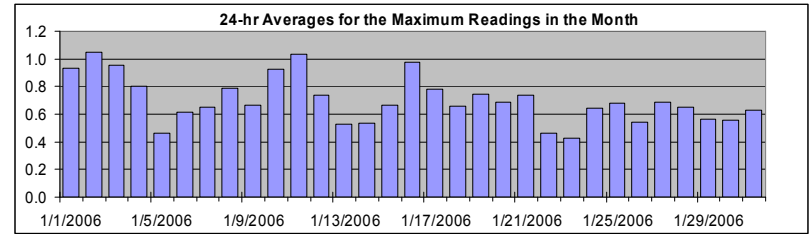
Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	3.5	ppb	16-Jan	11:00 12:00
Maximum 24-hr Value:	1.0	ppb	2-Jan	

AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.2	0.8	0.6	0.5	0.4	0.3	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																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	2	1	0	A	0	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	0.9	2.0
2-Jan-06	1	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.0	1.8
3-Jan-06	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	2	2	1	1	1	1	1	1.0	1.8
4-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	1	1	1	1	A	0.8	1.7	
5-Jan-06	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	A	0	0.5	0.7
6-Jan-06	0	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	A	0	0	0.6	1.2
7-Jan-06	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.8
8-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.1
9-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	A	A	0	1	0	1	1	1	0.7	1.0
10-Jan-06	1	1	1	0	0	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	2.2
11-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	2	2	1	1	1	1.0	2.1
12-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	0	0	0	1	1	0	0.7	1.5
13-Jan-06	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	1	1	0	0	1	0	0	0.5	1.1
14-Jan-06	0	0	0	0	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	0	0.5	0.7
15-Jan-06	1	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
16-Jan-06	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.5
17-Jan-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
18-Jan-06	1	1	1	1	1	A	1	1	1	1	1	0	1	0	0	1	1	0	1	1	1	1	0	1	0.7	1.0
19-Jan-06	1	0	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
20-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
21-Jan-06	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	2	1	1	0	0	0.7	1.9
22-Jan-06	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	1	0.5	0.9
23-Jan-06	A	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.5
24-Jan-06	0	0	0	1	0	A	0	1	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	0.6	1.0
25-Jan-06	1	0	1	1	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.3
26-Jan-06	0	0	0	A	0	1	0	1	2	1	1	0	0	1	1	1	0	0	0	0	1	0	1	0	0.5	1.5
27-Jan-06	0	1	A	1	0	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
28-Jan-06	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
29-Jan-06	A	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	0	0	0	0	A	0.6	1.1	
30-Jan-06	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	A	1	0.6	0.8
31-Jan-06	1	1	0	1	1	1	1	1	1	1	1	C	C	A	A	1	1	0	1	1	0	0	0	0	0.6	1.0
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.9	0.7	0.7	0.8	0.7	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.7	0.7	0.6		
Hourly Max	1.5	1.0	1.0	1.0	0.9	0.9	1.0	1.7	2.2	1.3	1.1	3.5	1.9	1.3	1.4	0.9	1.5	1.8	1.9	2.1	1.6	1.5	1.3	1.0		

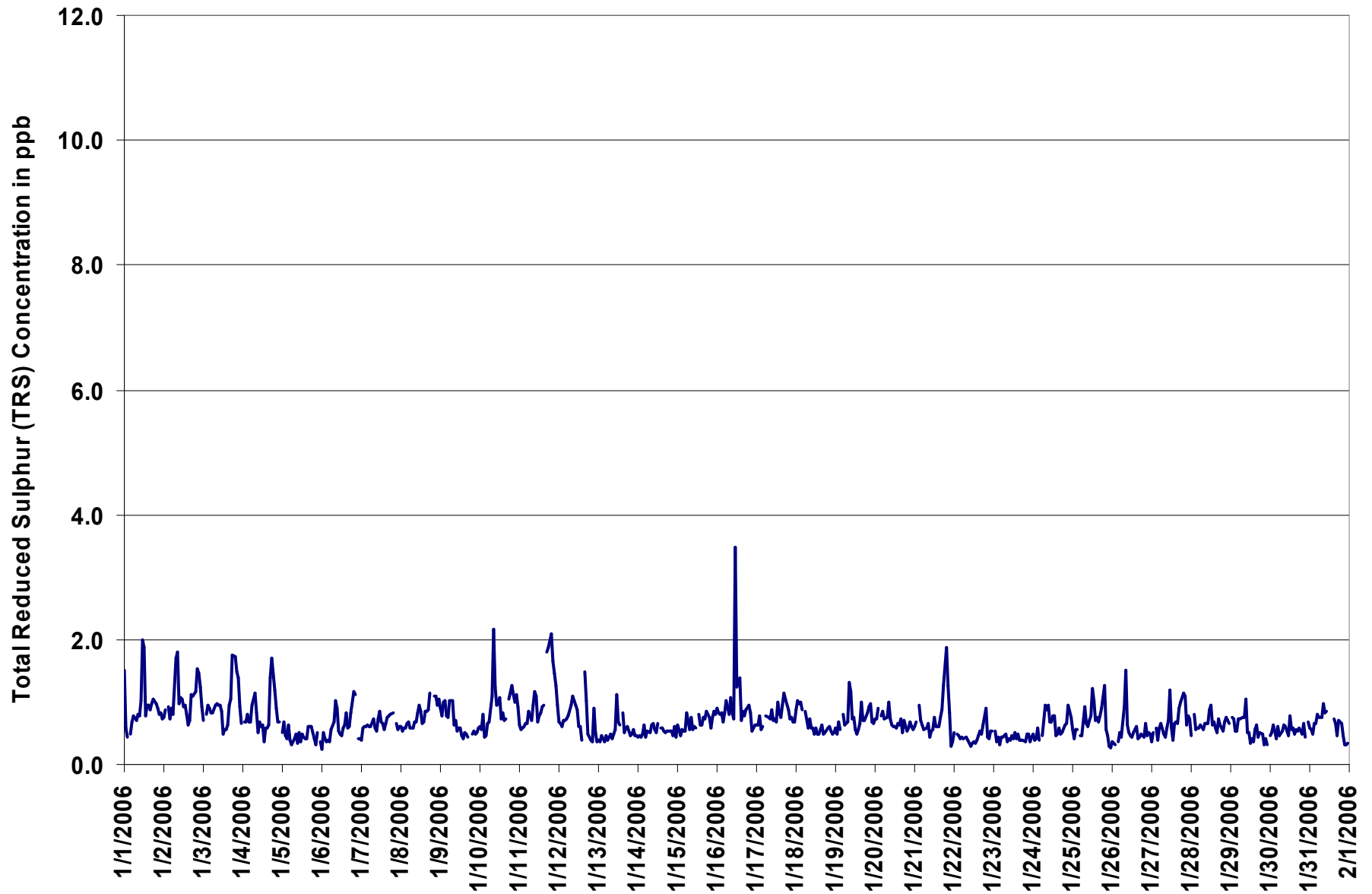
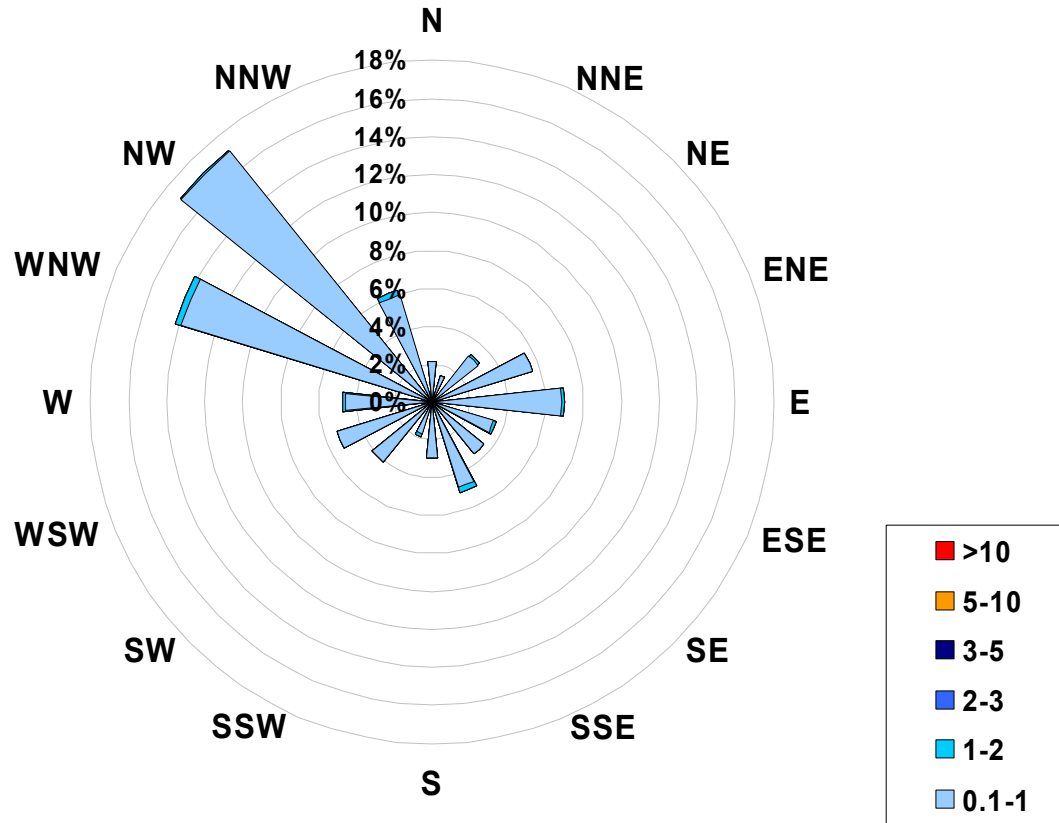


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	< 1		697
1	to 2		12
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

Station: Henry Pirker
 Station Owner: PASZA

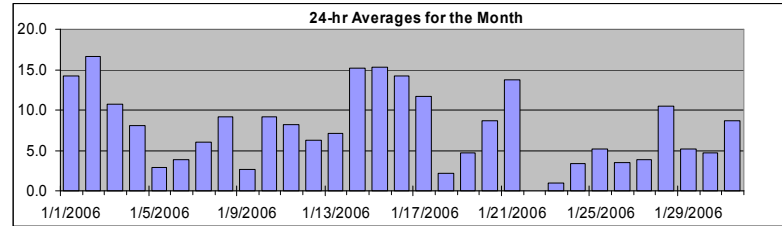
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

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:	39.8 μg/m ³ 1-Jan 12:00 13:00
Maximum 24-hr Value:	16.6 μg/m ³ 2-Jan



AIC Time:	0 hrs	Operational Time:	727 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	98.0%
Percentile	99	95	75
	27.1	20.7	11.7
	6.4	2.4	0.0
	0.0	0.0	7.8
	8 μg/m ³	6.5 μg/m ³	Average / Median
	Geomean	8 μg/m ³	6.5 μg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jan-06	15	11	9	9	10	13	12	15	16	15	15	19	40	18	14	13	17	12	14	13	13	14	9	7	14.2	39.8
2-Jan-06	9	8	7	8	7	7	8	14	22	17	16	22	17	15	13	11	9	27	21	25	35	38	27	18	16.6	38.3
3-Jan-06	11	10	9	10	10	6	7	9	6	7	22	21	13	6	4	5	5	15	25	15	15	16	5	7	10.7	24.5
4-Jan-06	6	8	4	7	11	2	7	8	7	5	10	7	7	3	8	6	5	12	21	11	11	15	9	4	8.1	21.1
5-Jan-06	3	3	5	3	3	0	D	0	0	0	0	3	3	2	10	7	5	5	11	4	0	0	0	0	2.9	11.5
6-Jan-06	1	0	0	0	0	0	0	3	9	7	6	2	4	4	9	11	6	4	4	4	5	6	5	3	3.8	11.0
7-Jan-06	5	5	8	6	5	6	7	10	6	4	7	5	4	3	4	5	4	6	6	11	14	10	3	4	6.0	13.9
8-Jan-06	4	4	4	4	11	0	7	7	9	10	15	15	12	3	4	3	12	18	21	15	14	9	11	6	9.2	21.4
9-Jan-06	4	2	3	7	5	1	7	7	2	2	0	1	2	D	0	7	D	4	0	1	3	0	0	2	2.7	7.1
10-Jan-06	1	0	5	0	4	8	0	10	18	12	9	21	7	9	4	4	0	9	12	23	20	9	12	9.2	23.1	
11-Jan-06	6	0	1	1	1	6	4	7	10	7	27	0	1	4	4	7	5	10	17	21	11	12	D	25	8.1	27.1
12-Jan-06	4	5	6	5	2	2	7	10	13	11	29	1	9	2	2	5	8	9	2	2	3	6	3	1	6.2	29.3
13-Jan-06	0	0	0	4	4	3	4	3	5	7	7	10	8	10	8	14	16	12	11	8	8	10	10	8	7.1	15.6
14-Jan-06	7	9	9	10	11	14	17	15	19	24	20	15	17	13	14	16	16	27	20	13	12	14	15	15	15.1	27.1
15-Jan-06	15	16	12	10	10	8	14	20	23	21	16	16	14	12	13	15	16	17	20	17	14	15	15	18	15.2	22.8
16-Jan-06	17	33	22	15	11	13	13	15	14	14	13	17	20	16	12	3	5	6	9	22	23	20	8	1	14.2	32.7
17-Jan-06	1	1	1	0	0	1	1	6	15	18	19	19	12	22	22	15	15	24	21	20	15	13	13	7	11.7	23.5
18-Jan-06	6	7	4	4	2	3	2	1	0	1	2	1	0	0	0	0	1	0	0	3	5	2	5	3	2.2	6.8
19-Jan-06	1	1	0	2	0	2	1	4	11	14	8	5	4	2	4	4	5	7	5	6	8	8	6	5	4.7	13.5
20-Jan-06	5	4	4	5	5	6	9	9	13	12	9	7	7	7	7	9	9	13	10	11	12	12	10	10	8.6	12.7
21-Jan-06	11	8	11	12	10	10	8	12	10	14	16	10	17	8	9	12	14	14	35	38	18	8	D	D	13.8	38.5
22-Jan-06	D	D	0	D	0	0	D	0	0	1	0	0	D	D	0	3	1	0	11	16	D	0	D	0	N	16.1
23-Jan-06	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	1	2	2	1	2	4	2	3	0.9	4.2
24-Jan-06	2	0	0	0	0	0	0	4	6	7	10	1	5	9	3	0	0	0	0	0	2	11	13	8	3.4	12.8
25-Jan-06	0	0	0	0	0	0	0	1	3	1	8	10	5	15	6	5	4	13	17	20	5	9	2	1	5.2	19.6
26-Jan-06	0	0	0	0	0	0	0	4	17	2	5	5	5	5	6	5	6	6	5	4	3	3	3	1	3.5	16.7
27-Jan-06	0	1	0	0	1	1	2	2	3	2	2	2	2	3	4	6	9	7	8	7	10	7	9	4	3.8	9.7
28-Jan-06	5	3	3	2	3	4	7	6	9	8	11	13	18	11	14	16	13	14	18	22	19	12	7	11	10.5	21.9
29-Jan-06	14	11	6	6	11	7	8	9	10	9	21	0	0	0	0	0	0	5	4	1	0	0	0	0	5.1	21.2
30-Jan-06	0	D	2	1	1	3	3	4	6	6	5	4	4	4	5	6	6	7	9	9	6	5	6	6	4.7	9.4
31-Jan-06	4	6	6	4	5	6	7	13	15	11	8	14	26	C	C	15	11	7	10	9	5	3	4	3	8.7	26.1
Hourly Avg	5.2	5.3	4.6	4.5	4.7	4.3	5.6	7.3	9.6	8.7	10.9	8.5	9.5	7.4	6.8	7.4	7.5	10.0	11.9	12.0	10.3	9.7	7.4	6.5		
Hourly Max	17.2	32.7	21.7	14.6	11.4	14.4	16.9	19.9	22.8	24.2	29.3	21.6	39.8	22.0	22.4	16.3	17.1	27.1	35.2	38.5	34.8	38.3	26.9	25.4		

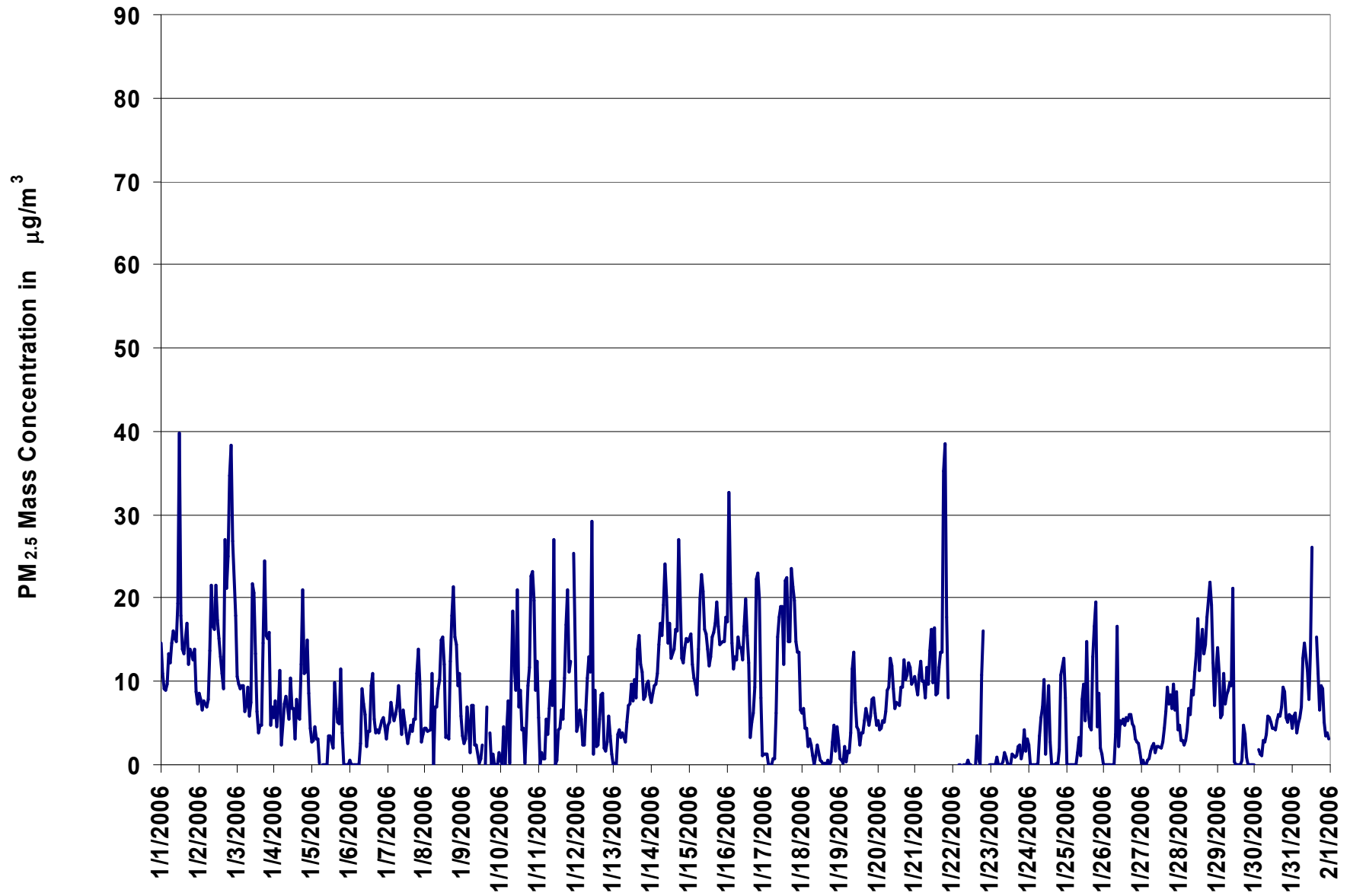


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

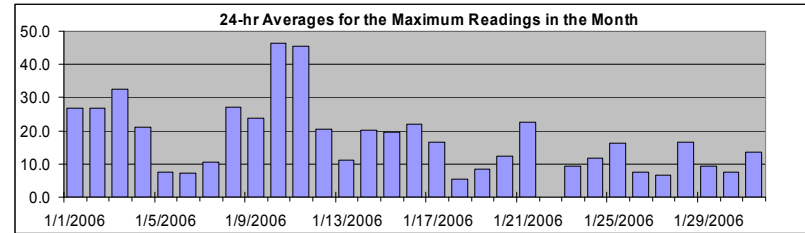
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	136.4	µg/m ³	1-Jan	12:00 13:00
Maximum 24-hr Value:	46.3	µg/m ³	10-Jan	



AIC Time:	0 hrs	Operational Time:	719 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	96.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	79.1	48.4	23.0	13.3	7.4	2.6	0.6	17.6	18 µg/m ³	15.1 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	18	15	12	11	11	18	19	23	20	35	26	31	136	23	17	15	26	21	25	25	25	27	48	18	26.9	136.4
2-Jan-06	36	16	27	14	16	14	13	25	30	27	22	26	23	19	20	13	12	94	25	32	38	45	37	24	27.0	93.6
3-Jan-06	13	14	12	12	21	22	13	35	12	18	95	28	51	40	34	33	45	49	39	26	32	49	57	32.6	95.1	
4-Jan-06	7	59	50	9	55	26	30	13	10	7	40	20	9	5	20	9	16	29	18	14	29	12	9	21.1	59.5	
5-Jan-06	10	10	9	6	7	3	D	D	3	7	5	12	14	6	12	12	9	7	16	12	1	0	1	1	7.4	16.1
6-Jan-06	3	1	0	1	0	1	3	5	25	12	12	4	7	9	13	23	8	6	6	7	8	7	7	6	7.3	24.6
7-Jan-06	8	8	11	9	8	9	10	14	10	6	13	10	6	4	7	7	8	10	23	30	20	8	7	10.5	29.9	
8-Jan-06	8	8	7	8	79	43	35	20	29	32	46	50	28	14	16	23	29	32	31	27	20	21	15	27.1	79.0	
9-Jan-06	17	11	15	23	34	19	26	22	30	40	25	28	41	D	65	42	D	27	10	6	6	9	7	23	23.8	64.8
10-Jan-06	13	9	19	45	47	40	49	36	32	48	69	57	23	45	42	37	34	47	63	79	110	63	71	34	46.3	109.9
11-Jan-06	15	D	19	23	21	54	59	36	58	16	99	18	43	35	31	37	21	43	75	79	67	51	D	97	45.4	98.7
12-Jan-06	29	21	21	16	53	21	8	49	52	28	38	26	23	6	5	10	12	11	11	11	6	14	12	5	20.4	52.7
13-Jan-06	2	4	5	7	6	7	7	6	9	10	11	14	14	13	15	19	20	17	15	11	18	14	14	11	11.1	20.1
14-Jan-06	10	12	14	12	14	18	19	18	24	29	27	20	21	17	18	18	18	72	24	15	14	16	17	16	20.1	71.9
15-Jan-06	23	24	14	13	13	10	17	25	25	23	20	18	16	16	17	18	22	24	27	22	16	17	18	30	19.5	30.1
16-Jan-06	30	59	25	20	22	21	16	24	19	18	26	26	29	20	22	6	9	9	17	33	28	25	13	5	21.9	58.9
17-Jan-06	3	7	6	2	4	4	3	15	18	21	21	22	18	30	34	17	18	37	26	24	19	18	20	10	16.5	36.6
18-Jan-06	8	9	8	6	5	5	4	5	3	6	6	3	3	1	2	2	2	2	3	13	14	3	10	8	5.5	14.1
19-Jan-06	3	2	3	4	3	3	3	7	27	24	13	11	6	4	7	6	10	10	7	8	10	12	10	7	8.4	27.3
20-Jan-06	7	6	7	8	8	10	13	12	14	14	12	9	20	12	10	12	11	21	18	13	15	15	12	13	12.2	21.3
21-Jan-06	20	11	12	15	16	15	13	15	11	22	23	12	31	27	15	40	19	35	50	47	32	15	D	D	22.5	49.6
22-Jan-06	D	D	4	D	15	1	D	8	7	14	8	D	D	D	8	15	15	19	36	36	D	D	D	3	N	36.0
23-Jan-06	10	7	D	9	7	8	5	6	12	9	9	8	6	14	14	7	8	11	10	9	9	12	18	8	9.5	17.7
24-Jan-06	8	3	2	D	0	1	16	16	15	23	29	5	13	16	13	1	14	2	9	2	17	20	26	16	11.7	29.3
25-Jan-06	6	D	10	D	3	1	6	13	12	10	14	24	21	27	14	20	13	33	27	31	16	35	14	6	16.3	34.8
26-Jan-06	2	3	6	6	5	3	4	7	29	18	9	8	8	7	9	7	8	8	7	7	5	6	5	4	7.6	29.4
27-Jan-06	3	3	3	1	3	2	3	4	4	2	5	4	3	6	7	9	13	11	11	10	14	10	18	7	6.5	17.9
28-Jan-06	7	5	5	4	4	9	10	10	14	15	14	15	28	25	18	18	16	25	26	40	31	17	10	30	16.5	39.5
29-Jan-06	26	15	12	7	22	9	11	13	13	14	34	7	1	0	0	2	7	8	8	8	2	0	5	2	9.5	34.3
30-Jan-06	5	D	6	5	4	6	4	6	8	7	7	6	7	8	7	11	7	9	12	12	9	8	9	9	7.4	12.4
31-Jan-06	9	10	11	6	8	8	12	19	19	17	12	25	30	C	C	27	18	12	15	13	7	7	6	5	13.4	30.2
Hourly Avg	12.0	13.1	11.8	10.8	16.5	13.2	14.9	17.0	19.3	18.5	25.5	18.2	22.7	16.1	17.0	16.7	15.4	23.2	22.2	22.7	21.3	18.9	17.7	16.2		
Hourly Max	36.5	59.5	49.7	44.8	79.0	53.5	59.0	49.5	58.5	47.9	98.7	56.6	136.4	45.2	64.8	41.8	44.9	93.6	74.6	79.4	109.9	62.6	71.4	97.4		

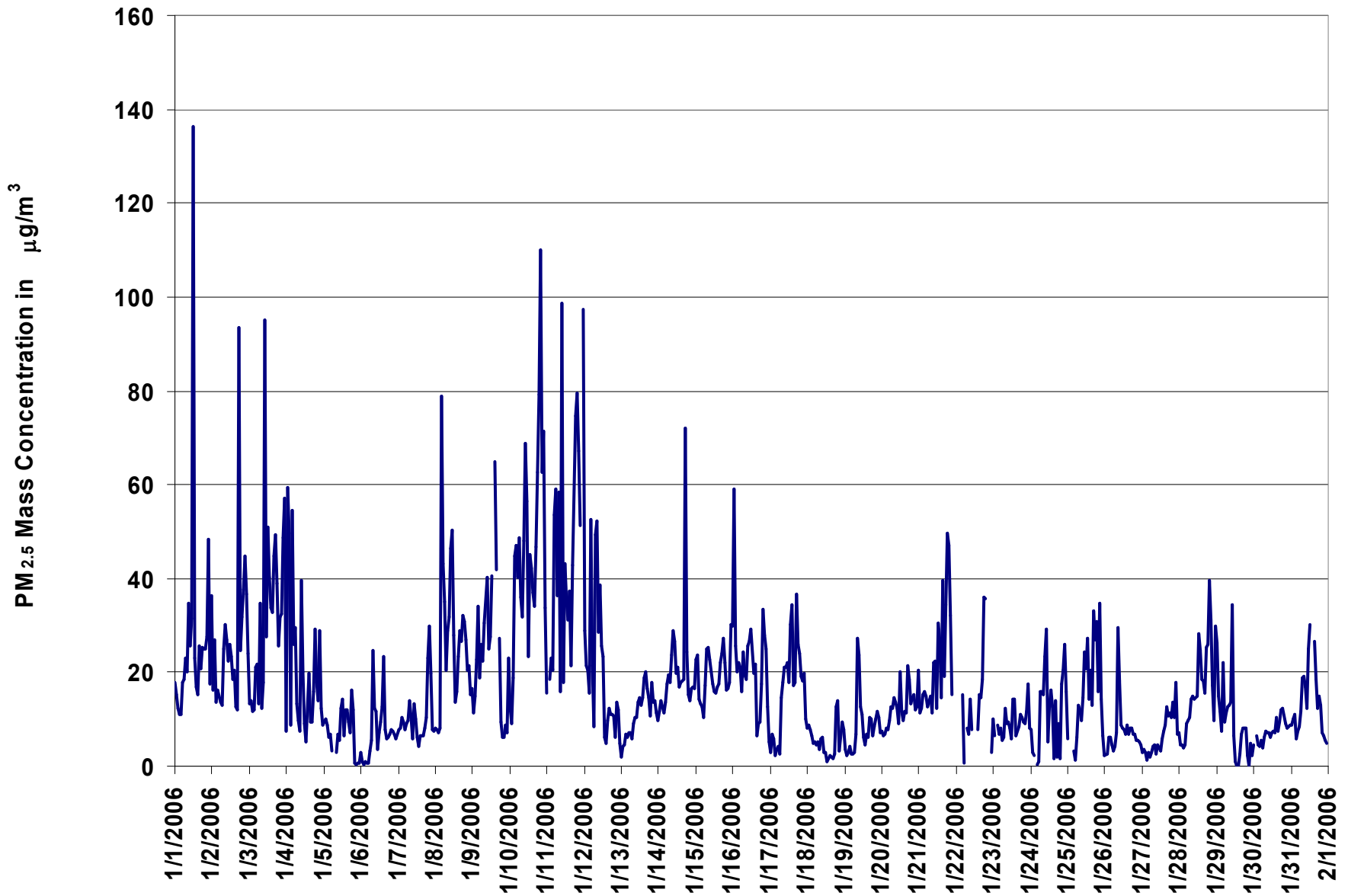
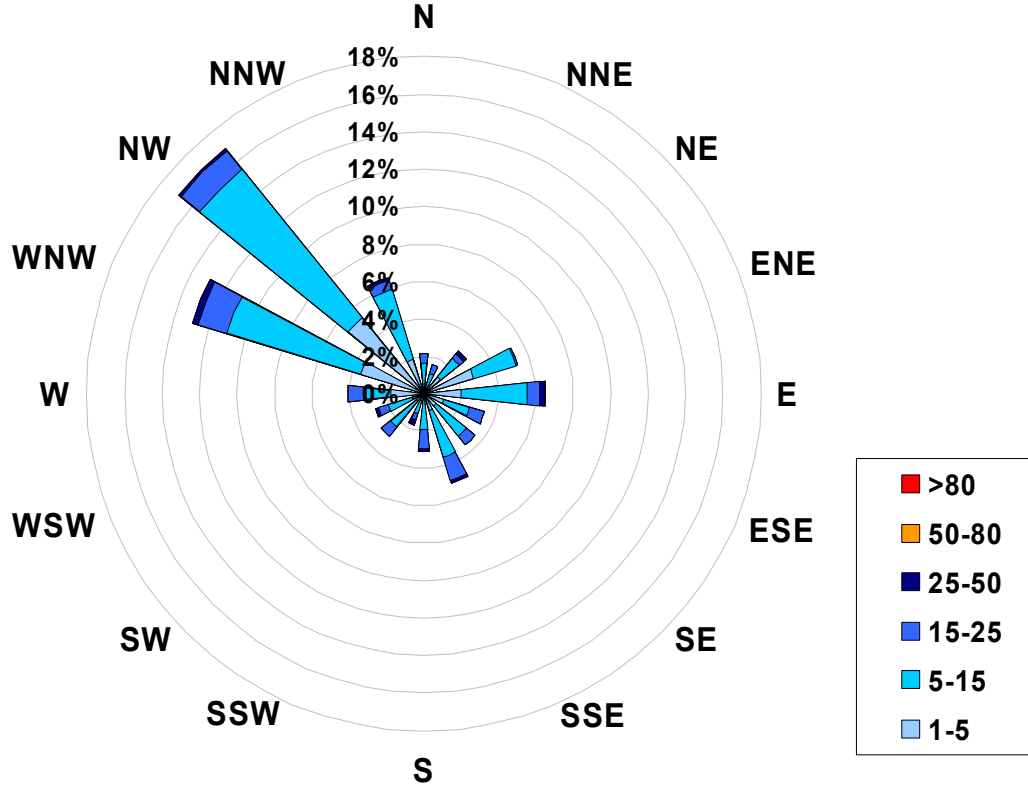


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	301
5	to	15	325
15	to	25	88
25	to	50	13
50	to	80	0
	>	80	0
Total Non-Zero Values			727

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

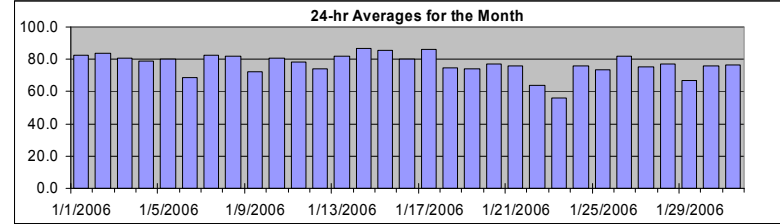
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	93.6 %	24-Jan	3:00 4:00
Maximum 24-hr Value:	86.9 %	14-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	88.7	84.4	79.4	72.8	54.9	48.9	77.1 %	79.4 %

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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Jan-06	86	87	87	86	86	86	86	86	86	86	83	77	71	71	71	73	81	85	87	86	85	85	85	84	82.8	86.7
2-Jan-06	85	84	85	85	86	86	86	86	85	85	84	81	78	74	76	79	81	87	88	88	87	87	85	85	84.0	88.1
3-Jan-06	84	84	84	84	84	85	84	83	83	83	84	83	80	64	65	65	76	84	85	86	85	85	83	82	81.0	85.7
4-Jan-06	82	82	83	83	84	84	83	82	83	81	75	64	64	65	65	67	71	78	84	87	88	88	84	84	78.8	88.2
5-Jan-06	84	84	84	85	90	92	92	91	91	91	90	89	82	71	77	82	88	92	92	72	53	52	49	51	80.1	92.0
6-Jan-06	53	59	57	57	59	59	62	67	72	73	70	69	63	66	68	72	76	79	79	78	78	78	77	80	68.7	79.6
7-Jan-06	83	85	88	89	90	91	90	90	89	89	88	78	71	65	62	65	75	78	83	85	86	87	85	85	82.3	90.6
8-Jan-06	84	84	83	82	81	82	81	82	83	83	82	81	80	76	71	76	82	85	85	84	83	85	86	85	82.0	86.4
9-Jan-06	84	84	84	84	86	85	85	86	88	83	76	70	61	55	55	52	53	59	63	65	68	69	69	71	72.2	87.6
10-Jan-06	73	74	80	79	83	84	85	86	85	84	82	76	76	77	74	75	78	81	84	84	86	85	84	83	80.8	85.7
11-Jan-06	83	84	84	83	82	82	82	83	83	82	80	70	66	64	58	61	68	78	82	83	84	85	84	84	78.2	85.4
12-Jan-06	84	83	83	82	82	82	81	80	80	80	72	62	57	53	52	60	69	75	77	76	76	77	79	76	74.1	83.7
13-Jan-06	74	72	74	76	78	78	78	78	82	84	84	82	80	79	78	82	85	86	87	88	89	89	89	88	81.7	89.1
14-Jan-06	87	87	88	88	87	88	88	88	87	87	86	86	86	86	86	86	86	87	86	87	87	87	87	87	86.9	88.0
15-Jan-06	87	87	87	87	87	87	86	86	86	86	85	85	85	85	86	86	86	86	85	85	85	84	84	83	85.6	86.9
16-Jan-06	82	82	81	79	79	79	79	78	78	79	80	81	82	80	77	75	82	85	85	83	85	78	75	75	80.1	85.3
17-Jan-06	75	76	88	90	90	90	89	89	88	89	88	87	86	83	84	86	87	88	86	86	86	86	86	85	86.2	90.3
18-Jan-06	84	84	81	80	80	79	75	72	70	69	67	67	70	73	74	72	75	76	75	73	73	73	72	73	74.5	84.3
19-Jan-06	74	75	77	78	77	78	79	81	79	75	73	68	62	58	62	66	70	75	75	78	79	79	77	76	73.9	80.7
20-Jan-06	76	78	77	76	77	78	79	79	78	78	76	73	70	71	73	74	77	78	78	80	81	81	82	81	77.0	81.7
21-Jan-06	82	84	84	81	77	75	73	74	74	73	74	74	74	74	69	70	74	77	81	84	83	76	68	65	75.8	84.3
22-Jan-06	66	65	62	60	60	62	65	64	65	66	62	63	63	62	61	62	64	64	73	75	64	63	61	60	63.9	75.1
23-Jan-06	58	57	57	56	58	55	52	54	54	56	51	47	46	46	48	52	55	54	53	57	60	76	87	55.9	87.3	
24-Jan-06	91	93	94	94	93	93	93	93	93	93	91	74	69	57	54	52	52	51	52	49	60	70	78	80	75.7	93.6
25-Jan-06	83	83	84	84	84	85	85	84	84	84	78	69	55	54	55	62	66	74	79	75	51	62	67	76	73.5	85.0
26-Jan-06	77	75	78	84	87	88	90	92	92	84	80	80	79	81	81	81	82	82	81	81	80	79	78	77	82.0	91.9
27-Jan-06	74	73	73	73	74	76	78	79	79	78	77	76	74	73	67	67	69	75	79	79	79	79	77	76	75.2	79.4
28-Jan-06	77	78	76	74	74	75	75	76	77	77	79	79	72	74	73	75	77	79	79	80	83	81	79	81	77.1	83.0
29-Jan-06	82	82	78	77	78	78	77	76	77	78	77	65	54	48	46	46	52	57	60	62	65	61	65	67	67.0	82.0
30-Jan-06	66	66	67	68	70	80	83	83	83	81	79	76	72	72	72	72	73	76	80	81	81	82	83	83	76.2	83.4
31-Jan-06	84	84	80	79	79	79	79	79	78	80	80	81	80	70	60	55	66	73	78	80	80	80	79	80	76.8	84.2
Hourly Avg	78.8	79.2	79.5	79.6	80.1	80.6	80.8	80.8	81.0	80.4	78.7	74.7	71.3	68.6	67.7	69.3	73.3	76.9	78.8	78.5	77.7	77.9	77.9	78.4		
Hourly Max	91.2	92.9	93.5	93.6	93.2	92.9	92.9	93.3	93.3	93.0	91.0	89.0	86.1	85.8	85.9	86.5	88.0	91.8	91.7	88.1	88.7	89.1	88.8	88.0		

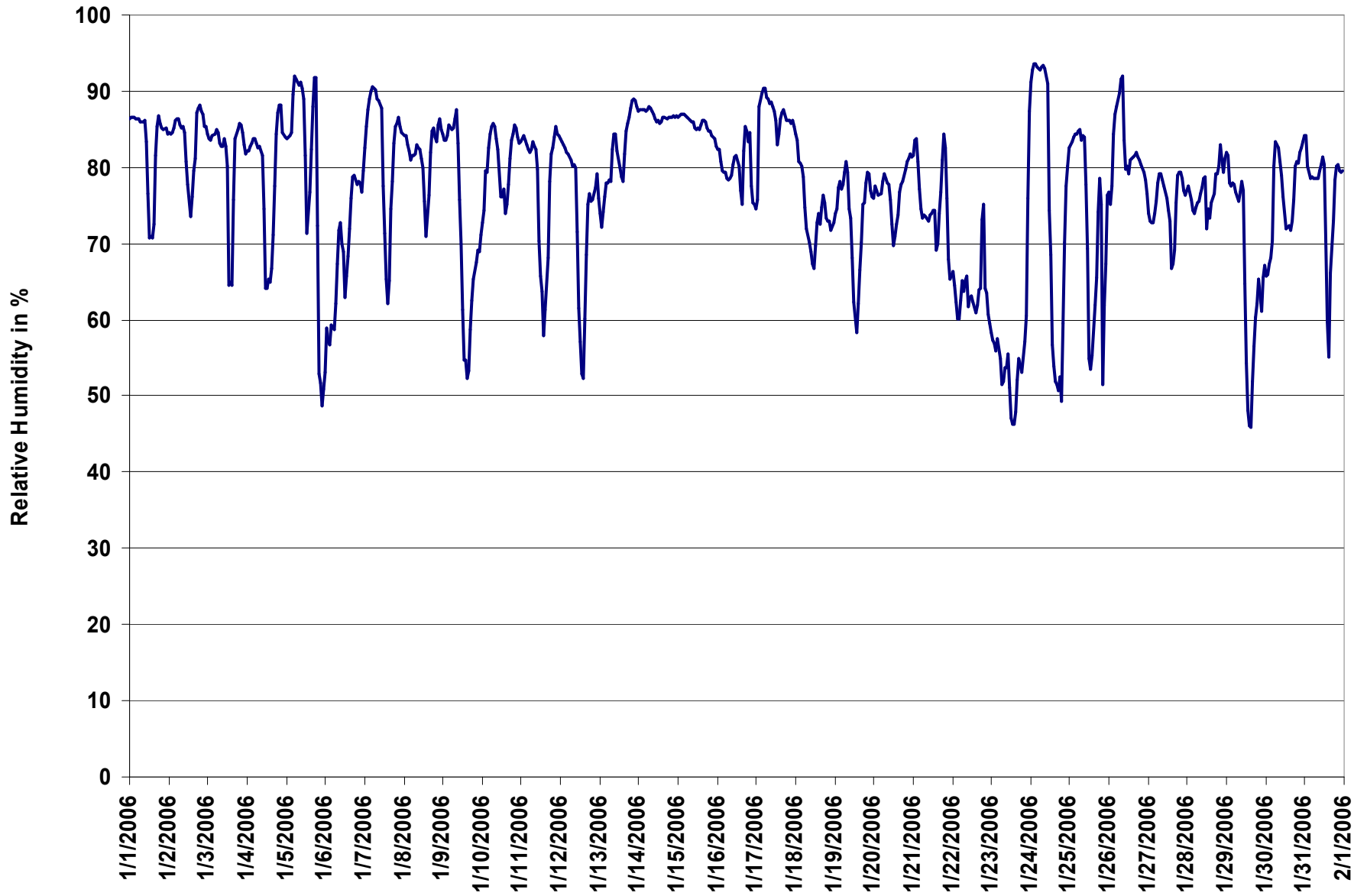


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

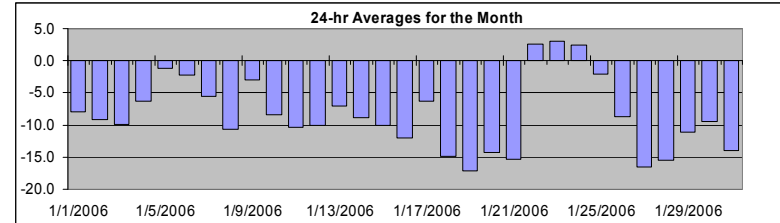
Ambient Temperature (T)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	9.4 °C	24-Jan	15:00 16:00
Maximum 24-hr Value:	3.0 °C	23-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
	5.4	3.4	-3.9	-8.7	-13.3	-18.5	-22.1	-8.4 °C	-8.7 °C



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jan-06	-10	-9	-9	-9	-9	-9	-8	-8	-8	-8	-7	-5	-4	-3	-3	-3	-5	-7	-9	-11	-12	-12	-12	-12	-12	-8.0	-2.7
2-Jan-06	-11	-10	-10	-9	-10	-11	-11	-11	-11	-11	-11	-8	-7	-4	-4	-4	-5	-7	-8	-9	-10	-10	-12	-12	-12	-9.1	-3.9
3-Jan-06	-12	-13	-13	-12	-12	-11	-12	-13	-14	-14	-11	-8	-5	-1	-2	-2	-4	-7	-9	-11	-12	-12	-13	-14	-14	-9.9	-1.2
4-Jan-06	-14	-13	-12	-11	-10	-10	-10	-10	-9	-8	-5	-3	-1	1	2	1	0	-2	-4	-5	-6	-6	-7	-9	-9	-6.3	1.6
5-Jan-06	-9	-8	-7	-5	-4	-2	-2	-2	-3	-2	-2	-2	1	3	2	1	-1	-2	-2	1	5	4	4	3	3	-1.2	5.1
6-Jan-06	2	0	0	0	0	-1	-2	-3	-4	-5	-3	-2	0	-1	-1	-2	-3	-4	-5	-4	-4	-4	-3	-3	-3	-2.2	2.1
7-Jan-06	-4	-4	-3	-4	-4	-5	-7	-6	-7	-7	-7	-4	-2	-1	1	0	-3	-4	-7	-8	-10	-10	-12	-13	-13	-5.5	0.5
8-Jan-06	-13	-13	-14	-15	-15	-14	-14	-14	-14	-14	-12	-10	-8	-6	-5	-6	-7	-8	-8	-7	-8	-9	-10	-9	-9	-10.6	-4.7
9-Jan-06	-7	-6	-6	-8	-10	-9	-8	-6	-4	-3	-1	0	2	3	3	3	2	0	-1	-2	-3	-3	-4	-4	-4	-3.0	3.3
10-Jan-06	-5	-6	-7	-7	-8	-9	-11	-11	-11	-11	-11	-8	-8	-7	-5	-6	-6	-7	-8	-8	-9	-10	-12	-12	-12	-8.4	-4.9
11-Jan-06	-13	-14	-14	-14	-15	-15	-15	-14	-14	-14	-12	-8	-6	-4	-1	-2	-4	-7	-9	-9	-10	-11	-12	-13	-13	-10.4	-1.2
12-Jan-06	-14	-15	-15	-14	-14	-15	-16	-17	-16	-15	-10	-6	-4	-2	-1	-3	-5	-7	-8	-8	-8	-11	-9	-8	-8	-10.0	-1.2
13-Jan-06	-7	-7	-7	-7	-7	-7	-7	-7	-8	-8	-7	-7	-7	-7	-6	-6	-6	-7	-7	-7	-8	-8	-8	-8	-8	-7.0	-6.1
14-Jan-06	-8	-8	-8	-8	-8	-8	-8	-8	-8	-9	-9	-9	-9	-9	-9	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-8.8	-8.1
15-Jan-06	-9	-9	-9	-9	-9	-9	-9	-10	-10	-10	-10	-11	-10	-10	-10	-9	-8	-10	-11	-12	-11	-11	-12	-14	-14	-10.0	-8.4
16-Jan-06	-15	-15	-16	-17	-17	-18	-18	-18	-18	-18	-15	-11	-9	-5	-5	-6	-8	-9	-10	-11	-9	-7	-7	-6	-6	-12.0	-5.4
17-Jan-06	-6	-6	-6	-5	-5	-4	-5	-6	-7	-8	-8	-7	-4	-3	-4	-4	-4	-7	-10	-10	-9	-9	-8	-7	-7	-6.3	-3.0
18-Jan-06	-8	-9	-11	-13	-14	-15	-15	-15	-15	-16	-16	-16	-16	-16	-16	-16	-16	-17	-17	-17	-17	-17	-17	-17	-17	-14.9	-7.5
19-Jan-06	-17	-17	-18	-17	-16	-16	-17	-18	-19	-22	-22	-19	-16	-15	-15	-15	-16	-16	-16	-17	-19	-17	-16	-16	-16	-17.2	-14.6
20-Jan-06	-16	-18	-18	-17	-18	-18	-17	-16	-16	-16	-15	-13	-12	-12	-11	-11	-12	-12	-12	-12	-12	-12	-12	-12	-12	-14.2	-11.4
21-Jan-06	-12	-14	-16	-17	-20	-22	-24	-24	-23	-24	-20	-19	-18	-16	-14	-15	-14	-14	-14	-12	-9	-5	-1	0	0	-15.3	0.3
22-Jan-06	0	0	1	2	1	1	1	2	3	3	3	3	3	3	4	4	3	3	1	0	5	5	5	5	5	2.6	5.4
23-Jan-06	5	5	5	5	4	4	4	4	4	3	3	3	4	4	4	4	3	2	1	1	0	0	1	0	0	3.0	5.1
24-Jan-06	-1	-1	-1	-1	-1	-2	-2	-3	-3	-3	-1	4	5	9	9	9	9	9	8	8	5	2	1	0	0	2.4	9.4
25-Jan-06	-2	-5	-6	-8	-7	-8	-8	-7	-8	-8	-6	-3	4	5	5	3	1	-2	-3	-2	5	2	5	3	3	-2.1	5.3
26-Jan-06	2	2	1	0	-1	-2	-4	-4	-4	-6	-9	-11	-11	-12	-13	-13	-14	-14	-15	-15	-16	-16	-17	-17	-17	-8.7	2.5
27-Jan-06	-18	-18	-18	-18	-18	-18	-17	-18	-17	-17	-16	-15	-15	-13	-11	-11	-12	-14	-16	-18	-19	-19	-21	-22	-22	-16.5	-11.2
28-Jan-06	-21	-20	-21	-23	-23	-22	-22	-21	-20	-18	-16	-13	-10	-11	-9	-9	-9	-9	-10	-10	-12	-13	-14	-15	-15	-15.5	-8.7
29-Jan-06	-16	-17	-19	-21	-21	-20	-21	-22	-21	-18	-11	-6	-2	-1	0	-1	-3	-5	-5	-7	-7	-7	-8	-8	-8	-11.1	-0.5
30-Jan-06	-8	-8	-9	-9	-9	-9	-9	-10	-10	-11	-10	-9	-8	-8	-9	-8	-8	-9	-9	-10	-11	-11	-11	-12	-12	-9.5	-7.8
31-Jan-06	-13	-13	-17	-19	-19	-19	-19	-19	-18	-16	-14	-12	-9	-7	-4	-3	-8	-11	-13	-15	-16	-17	-17	-17	-17	-13.9	-2.6
Hourly Avg	-9.0	-9.2	-9.7	-10.0	-10.3	-10.5	-10.7	-10.8	-10.8	-10.8	-9.4	-7.6	-5.8	-4.7	-4.2	-4.5	-5.7	-6.9	-7.9	-8.3	-8.2	-8.5	-8.6	-9.0	-9.0		
Hourly Max	5.1	5.0	4.7	4.7	4.4	4.2	3.9	3.7	3.3	3.1	3.5	3.6	5.0	8.6	9.1	9.4	9.1	8.6	7.8	8.0	5.1	5.2	5.4	5.3	5.3		

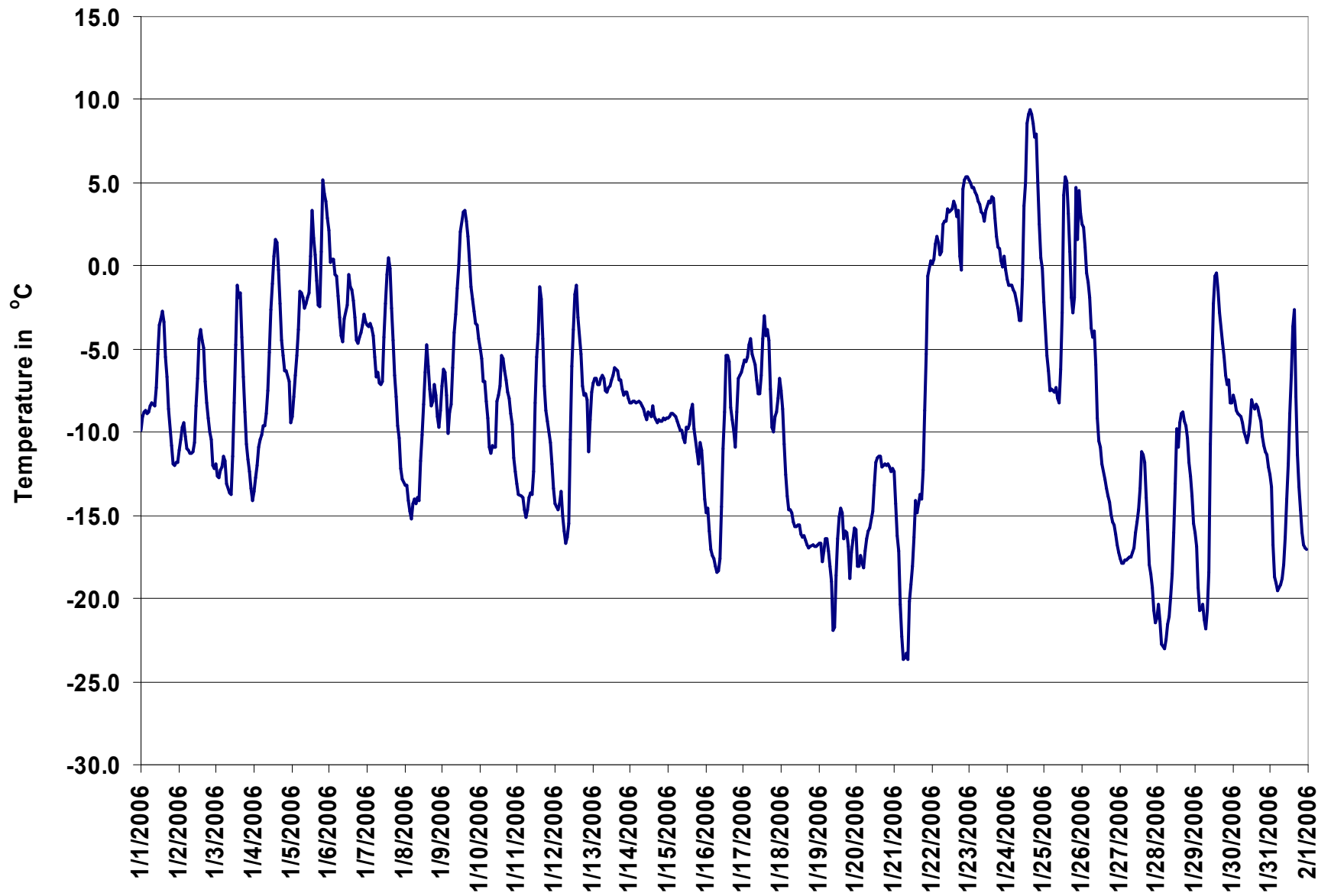


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

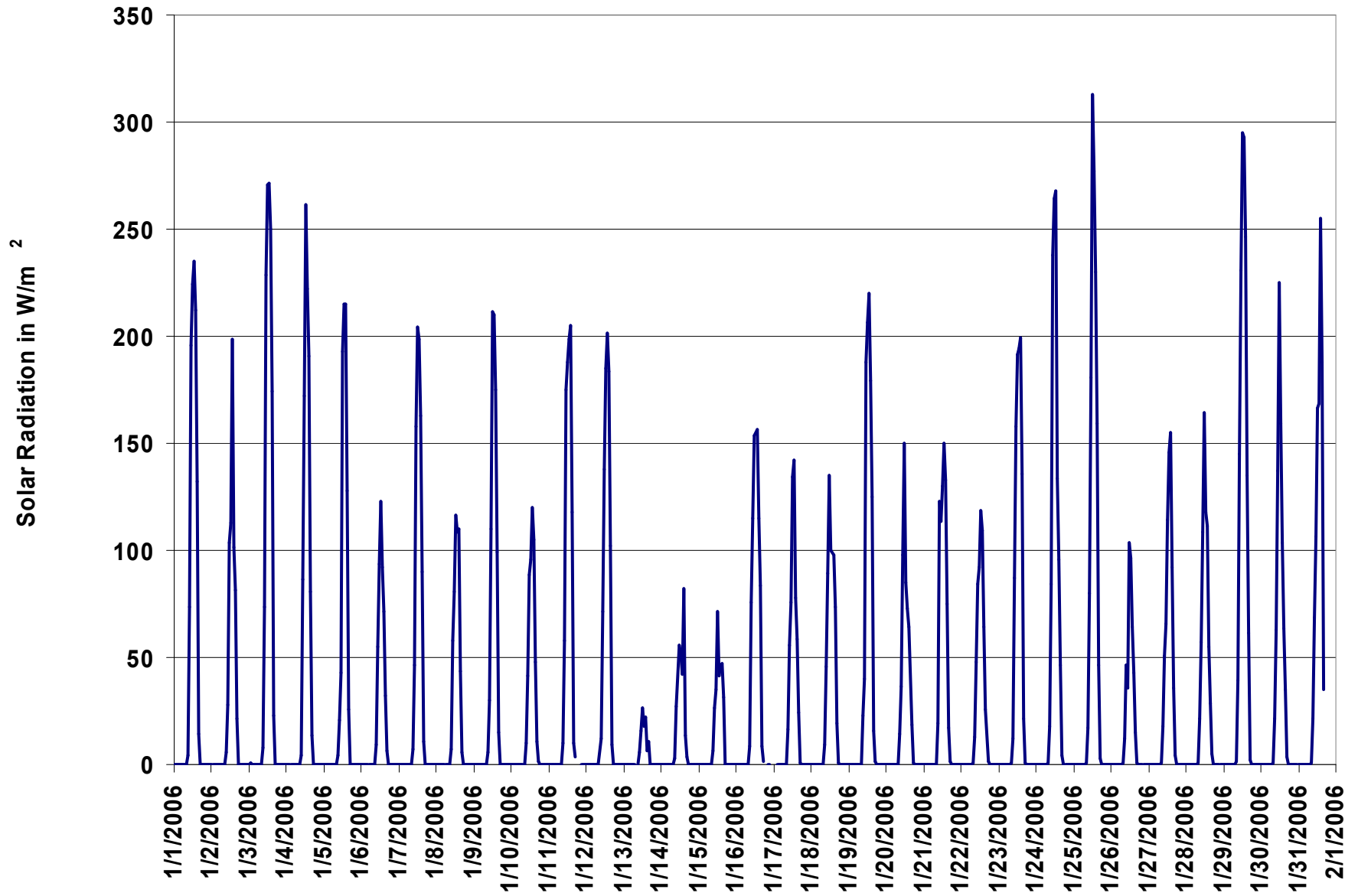


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

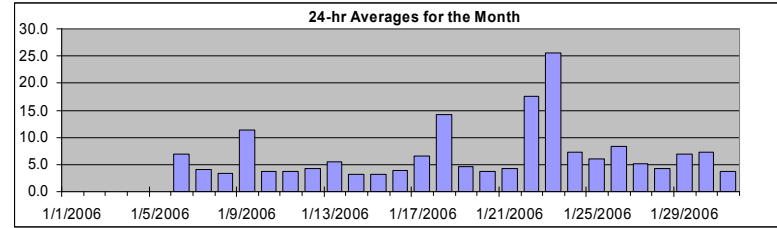
Wind Speed (WSs)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	48.4	km/hr	22-Jan	23:00 0:00
Maximum 24-hr Value:	25.5	km/hr	23-Jan	

Calm Time:	0 hrs	0% calms	Operational Time:	640 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	86.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	41.3	19.3	7.3	4.4	3.4	2.4	2.0	7.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
2-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
3-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
4-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	6	6	7	3	3	2	ND	ND	ND	ND	N	9.6
5-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	4	8	8	6	ND	ND	ND	31	33	29	26	N	32.5	
6-Jan-06	17	13	18	15	6	9	6	4	5	6	5	4	4	4	4	4	5	7	5	5	5	6	5	4	6.9	18.0	
7-Jan-06	3	4	4	4	2	3	3	3	4	4	4	4	4	4	4	4	4	7	4	5	4	5	5	5	4.1	6.6	
8-Jan-06	4	4	5	3	3	3	3	3	2	1	2	2	3	4	2	4	5	4	4	4	4	4	3	3	3.4	4.6	
9-Jan-06	4	7	8	3	7	8	4	5	7	10	18	20	18	19	19	22	25	18	12	10	8	5	9	4	11.3	24.8	
10-Jan-06	4	4	4	5	4	3	2	3	3	4	3	3	4	5	4	4	3	4	5	3	3	4	3	3	3.7	5.4	
11-Jan-06	5	4	3	5	4	3	3	4	3	3	3	5	4	3	3	3	3	4	4	4	3	5	4	5	3.7	4.8	
12-Jan-06	5	3	4	4	4	3	4	4	3	4	2	2	3	3	3	5	7	6	7	7	6	4	5	6	4.2	7.4	
13-Jan-06	7	10	13	11	8	6	4	4	4	5	3	5	3	4	3	4	3	2	5	7	5	4	5	5	5.4	13.0	
14-Jan-06	3	2	3	3	3	2	4	3	5	4	5	4	4	4	4	3	2	2	2	3	2	3	2	3	3.2	4.8	
15-Jan-06	2	3	2	2	3	4	4	4	3	3	3	4	4	4	2	2	2	3	3	3	4	6	5	4	2	3.2	6.0
16-Jan-06	2	2	2	3	3	3	2	3	3	3	3	2	3	2	3	3	4	4	3	3	5	8	13	13	4.0	13.2	
17-Jan-06	14	13	12	9	7	5	6	6	7	7	7	4	2	3	5	6	4	4	4	5	4	3	5	12	6.5	13.9	
18-Jan-06	15	15	16	15	19	14	15	15	17	16	16	18	18	16	14	15	14	13	12	11	9	8	7	8	14.1	18.6	
19-Jan-06	7	4	3	5	6	5	4	3	3	4	5	6	6	5	6	5	3	5	5	4	4	5	4	4	4.6	7.4	
20-Jan-06	4	4	5	3	5	4	3	4	3	3	4	3	4	3	4	5	5	4	4	4	3	3	3	3	3.8	5.5	
21-Jan-06	4	3	2	2	4	3	4	4	3	3	3	3	3	3	3	4	3	3	3	4	5	5	14	12	4.2	13.6	
22-Jan-06	11	11	17	19	13	9	11	30	30	22	27	13	9	7	5	3	5	9	4	6	29	38	44	48	17.5	48.4	
23-Jan-06	45	47	45	45	43	38	35	38	34	30	22	23	28	28	29	25	18	8	7	9	3	4	5	3	25.5	46.7	
24-Jan-06	5	8	8	7	8	6	5	2	3	3	4	4	4	4	3	15	17	13	17	12	10	5	5	3	7.2	17.1	
25-Jan-06	4	5	3	4	5	5	3	4	4	3	3	3	3	4	5	6	4	3	4	5	9	10	28	19	6.1	27.5	
26-Jan-06	18	13	10	5	5	5	3	4	5	8	9	8	10	12	11	9	7	8	9	8	7	9	8	10	8.4	17.9	
27-Jan-06	7	8	8	7	6	6	5	7	4	6	6	6	6	5	3	4	4	4	4	3	3	5	5	5	5.2	7.9	
28-Jan-06	5	4	4	4	4	4	4	4	4	4	4	4	4	7	4	4	4	4	3	3	4	7	5	3	4.2	7.0	
29-Jan-06	2	3	4	4	4	4	4	4	4	3	7	10	10	11	16	15	10	6	6	5	6	10	9	7	8	7.0	16.5
30-Jan-06	9	12	11	10	10	11	10	5	6	8	7	7	7	7	5	3	3	2	3	8	9	8	8	7	7.3	12.5	
31-Jan-06	7	4	4	3	4	2	4	4	3	3	3	2	2	2	2	3	5	5	4	5	4	4	5	4	3.6	6.8	
1-hr Average	8.2	8.1	8.4	7.7	7.3	6.5	6.0	6.7	6.6	6.7	7.0	6.5	6.6	6.8	6.8	6.8	6.2	5.9	5.2	5.5	7.1	7.7	8.8	8.6			
Hourly Max	45.4	46.7	45.3	45.2	43.2	38.4	35.2	37.6	33.6	30.4	27.1	22.6	28.0	27.6	29.2	24.9	24.8	18.0	12.5	11.3	30.9	38.2	43.9	48.4			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

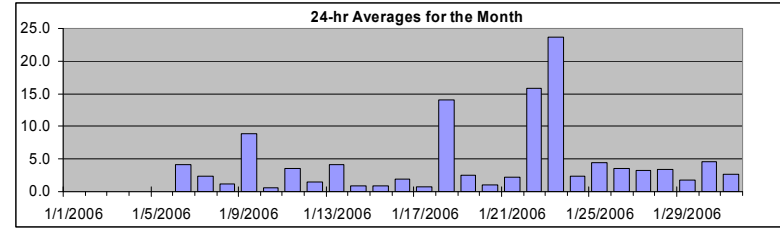
Wind Speed (WSv)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	48.3	km/hr	22-Jan	23:00 0:00
Maximum 24-hr Value:	23.7	km/hr	23-Jan	

Calm Time:	9 hrs	1% calms	Operational Time:	631 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	86.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	41.6	19.4	7.1	3.9	2.8	1.4	0.9	8.2 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
2-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
3-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
4-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	5	5	7	2	2	2	ND	ND	ND	ND	N	9.4
5-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	2	7	7	5	ND	ND	ND	31	32	29	26	N	32.4	
6-Jan-06	17	13	18	15	4	8	4	2	5	2	4	4	3	1	4	4	5	7	5	5	2	6	4	3	4.2	17.8	
7-Jan-06	2	3	4	2	1	3	3	2	3	4	3	4	4	4	3	4	4	6	4	5	4	4	5	5	2.3	6.4	
8-Jan-06	4	3	4	3	3	2	3	3	2	calm	calm	1	2	1	1	4	4	3	1	3	4	3	1	2	1.2	4.4	
9-Jan-06	3	7	8	2	7	8	4	1	4	9	18	20	18	19	19	22	25	18	12	10	6	2	9	2	8.8	24.8	
10-Jan-06	3	2	3	4	3	1	1	3	calm	4	2	2	4	5	4	3	1	4	5	1	3	3	3	3	0.5	5.3	
11-Jan-06	5	4	3	5	4	3	2	3	3	2	3	4	3	3	3	3	3	3	3	3	2	4	3	5	3.5	4.7	
12-Jan-06	5	3	3	2	3	2	4	3	2	4	2	1	3	2	2	4	6	5	7	7	6	2	5	5	1.5	7.4	
13-Jan-06	6	10	13	11	8	6	4	4	4	4	3	4	2	4	1	4	1	1	5	7	5	4	4	5	4.1	12.9	
14-Jan-06	2	1	2	2	3	calm	3	3	4	3	5	4	4	4	4	2	2	calm	1	2	2	3	2	3	0.9	4.7	
15-Jan-06	2	2	1	1	3	3	4	3	3	2	3	4	4	2	2	1	calm	3	3	4	6	5	3	2	0.9	6.0	
16-Jan-06	calm	2	1	3	3	2	2	3	2	3	2	calm	3	2	1	3	4	3	3	2	5	8	13	13	1.9	13.1	
17-Jan-06	14	13	12	9	7	2	5	5	7	6	7	4	1	2	5	6	2	4	3	5	4	3	5	12	0.8	13.9	
18-Jan-06	15	15	16	15	19	14	15	15	17	16	16	18	18	16	14	15	14	13	12	11	9	8	7	8	14.0	18.5	
19-Jan-06	7	4	1	4	6	5	3	3	2	4	5	6	5	5	5	5	3	4	4	4	4	4	4	4	2.5	7.3	
20-Jan-06	4	4	4	3	4	3	1	3	3	3	3	2	3	3	4	4	5	4	2	4	2	2	2	3	1.0	5.3	
21-Jan-06	4	3	2	2	4	3	3	3	3	3	3	3	3	3	3	4	1	3	3	4	3	4	14	12	2.2	13.5	
22-Jan-06	11	11	17	19	13	9	10	30	30	21	27	12	9	7	5	3	4	8	3	5	29	38	44	48	15.9	48.3	
23-Jan-06	45	47	45	45	43	38	35	38	33	30	22	23	28	28	29	25	18	8	6	8	2	3	5	3	23.7	46.7	
24-Jan-06	5	7	8	7	7	6	4	1	2	3	3	4	3	1	15	17	13	17	12	10	4	5	2	3	2.4	17.0	
25-Jan-06	3	4	3	4	5	5	3	4	3	3	2	1	2	3	4	5	4	3	3	5	8	9	27	18	4.5	27.3	
26-Jan-06	17	13	9	5	4	4	2	3	4	8	8	8	10	12	11	8	7	7	9	8	7	9	8	10	3.5	17.3	
27-Jan-06	7	8	7	6	5	6	5	6	4	6	6	6	6	4	calm	3	3	4	3	3	1	4	5	5	3.2	7.6	
28-Jan-06	5	3	4	4	4	4	4	3	4	3	4	3	2	6	4	3	4	3	3	3	2	7	5	3	3.3	6.9	
29-Jan-06	1	3	4	4	3	3	4	3	1	6	9	10	10	16	15	10	5	3	5	6	10	9	7	8	1.7	16.4	
30-Jan-06	9	12	10	10	10	10	10	5	5	8	7	7	6	7	5	3	3	1	2	8	9	8	8	7	4.6	12.4	
31-Jan-06	7	3	3	3	3	2	4	4	2	3	2	1	2	1	2	2	5	4	3	5	4	4	4	4	2.7	6.7	
1-hr Vector	2.8	1.3	1.6	2.2	2.4	2.4	2.7	3.6	3.8	3.6	4.0	3.7	2.9	4.3	4.2	3.8	3.0	2.8	1.0	1.3	2.2	3.0	4.3	3.3			
Hourly Max	45.3	46.7	45.2	45.1	43.0	38.3	35.1	37.5	33.5	30.3	26.9	22.5	27.9	27.5	29.0	24.9	24.8	17.9	12.4	11.3	30.7	37.7	43.8	48.3			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2006 to February 1, 2006

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
	350.7	333.3	305.4	250.9	123.8	49.5	13.3	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			24:00	
Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	152	90	86	116	153	214	274	145	150	94	132	206	328	353	18	243	120	59	332	330	308	328	307	304		N	-	
2-Jan-06	318	301	353	243	315	293	293	281	152	188	171	283	254	179	210	171	164	296	25	98	36	165	237	329		N	-	
3-Jan-06	323	309	169	146	110	98	350	283	303	84	142	147	166	225	162	156	140	134	304	300	351	290	304	299		N	-	
4-Jan-06	297	308	292	100	137	158	260	286	163	180	196	228	225	238	224	237	221	112	117	107	114	98	209	313		N	-	
5-Jan-06	334	282	170	356	40	80	93	86	90	77	77	341	96	219	264	230	172	162	137	247	257	242	250	244		N	-	
6-Jan-06	275	272	249	242	261	267	229	266	288	35	104	107	130	147	314	348	316	324	327	323	233	183	263	326		269	W	
7-Jan-06	274	176	146	141	103	174	323	347	285	304	322	302	316	279	268	221	274	283	308	338	342	322	285	332		293	WNW	
8-Jan-06	346	348	306	338	294	306	321	296	307	225	257	301	159	267	208	150	98	154	118	112	326	310	316	334		310	NW	
9-Jan-06	107	116	123	253	316	314	155	9	274	221	238	242	243	238	247	248	248	246	239	239	242	275	253	325		246	WSW	
10-Jan-06	11	46	90	117	128	95	194	331	153	303	316	288	303	314	295	269	185	156	143	22	129	355	321	318		343	NNW	
11-Jan-06	313	329	310	316	320	294	304	256	322	315	307	296	291	284	288	287	308	288	328	298	335	340	332	298		307	NW	
12-Jan-06	310	317	333	299	350	336	315	307	324	351	171	288	289	264	199	133	101	82	79	76	63	324	50	76		23	NNE	
13-Jan-06	68	80	86	85	77	75	73	53	47	13	35	2	15	320	328	174	171	230	70	93	70	56	62	77		68	ENE	
14-Jan-06	67	139	89	269	330	194	277	303	191	267	285	288	258	293	281	310	196	195	55	46	89	71	81	124		275	W	
15-Jan-06	190	111	95	77	118	142	153	168	157	185	259	268	255	279	153	157	292	311	317	324	310	308	317	303		258	WSW	
16-Jan-06	104	49	159	309	328	326	303	306	317	318	293	265	142	262	62	83	103	72	54	35	89	88	90	89		69	ENE	
17-Jan-06	93	93	93	80	65	40	298	232	230	226	215	241	243	230	156	102	91	339	313	323	316	315	338	323		58	ENE	
18-Jan-06	315	311	308	302	297	294	292	301	296	302	303	299	301	300	300	290	283	285	296	300	299	299	305	304		299	WNW	
19-Jan-06	296	314	157	145	118	115	77	54	13	315	322	319	310	296	307	309	276	314	318	326	304	309	291	306		316	NW	
20-Jan-06	323	302	329	325	295	343	136	152	170	167	155	90	50	46	8	337	344	349	87	157	143	284	308	301		347	NNW	
21-Jan-06	297	183	188	189	305	319	303	289	293	291	298	271	286	279	283	307	309	300	95	93	134	148	233	226		260	W	
22-Jan-06	212	199	225	214	220	230	264	246	244	241	246	238	226	210	132	125	201	260	327	314	277	263	247	248		243	WSW	
23-Jan-06	248	246	243	244	249	255	256	256	259	263	269	279	284	290	290	293	297	307	281	297	340	176	275	102		263	W	
24-Jan-06	84	99	100	102	108	108	124	89	98	126	100	109	160	154	234	240	238	238	224	227	340	29	69	18		180	S	
25-Jan-06	318	322	325	312	320	321	313	315	308	317	302	217	135	303	293	289	306	317	360	171	193	304	259	282		288	WNW	
26-Jan-06	256	239	187	166	184	314	202	168	13	28	7	35	58	73	68	61	61	64	76	72	60	67	65	71		65	ENE	
27-Jan-06	45	63	69	68	82	72	92	108	67	60	74	84	92	87	134	311	327	346	337	333	280	316	314	316		53	NE	
28-Jan-06	329	345	313	306	305	314	321	309	294	301	289	292	208	244	277	280	300	321	64	32	339	319	331	294		307	NW	
29-Jan-06	36	358	318	310	326	331	304	314	80	202	220	223	240	252	254	256	280	15	74	71	84	61	47	49		284	WNW	
30-Jan-06	53	51	43	45	45	60	57	49	5	344	344	325	307	305	288	287	296	188	103	92	97	99	90	91		41	NE	
31-Jan-06	76	64	318	311	303	309	292	316	292	288	302	235	202	279	262	256	303	311	300	323	317	320	314	322		309	NW	
Hourly Avg	291	276	238	251	284	293	277	274	273	281	273	277	269	271	270	268	269	289	343	355	290	290	273	286				

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, 2006 to February 1, 2006

Summary

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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
	60.2	51.5	31.3	17.3	10.1	4.8	3.4

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

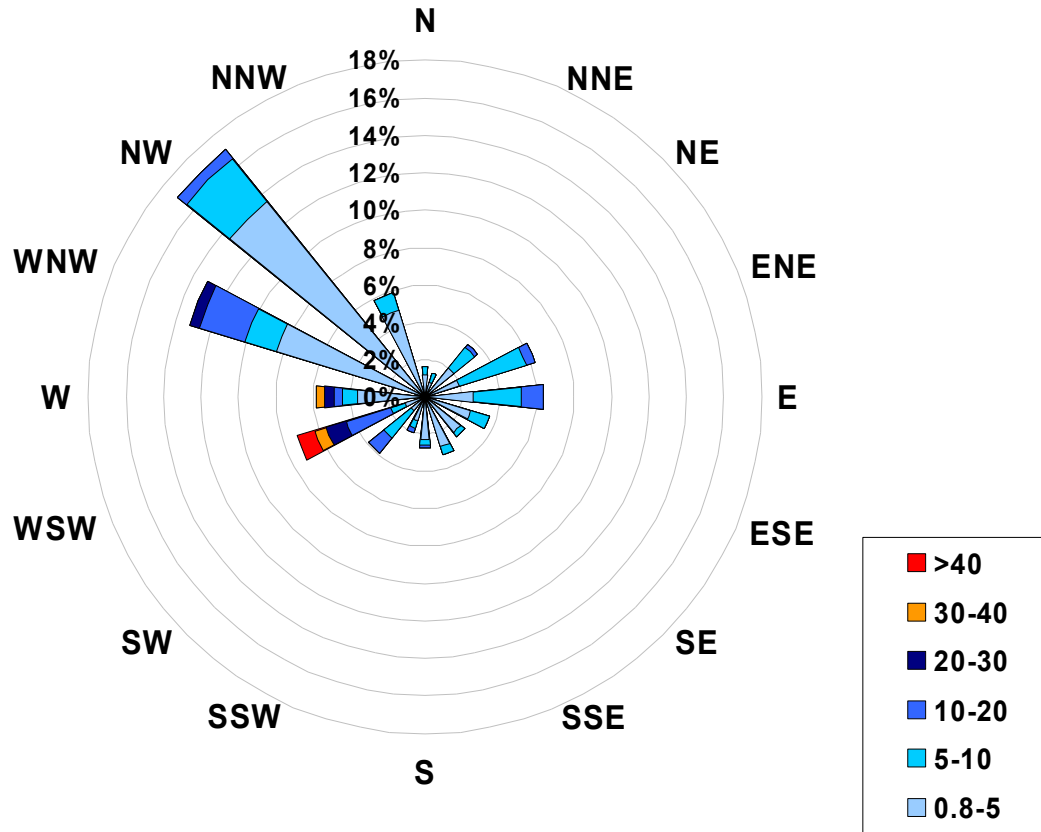
Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	0:00	
1-Jan-06	15	28	21	19	17	57	64	19	22	20	30	25	27	22	35	37	14	25	16	23	15	15	35	31			
2-Jan-06	32	39	34	49	29	50	37	54	54	30	31	42	47	26	41	19	42	37	55	67	34	41	56	12			
3-Jan-06	38	40	52	28	53	34	60	58	26	32	7	7	23	19	10	12	10	44	52	25	8	34	9	21			
4-Jan-06	9	11	25	57	15	47	48	23	35	47	14	14	13	10	17	16	9	32	44	13	18	24	41	21			
5-Jan-06	31	45	21	35	21	10	6	5	5	13	21	37	32	40	14	19	37	22	38	9	4	4	4	4			
6-Jan-06	8	5	6	8	42	13	32	49	13	42	17	10	22	21	14	17	11	6	8	9	39	10	16	22			
7-Jan-06	51	16	12	36	49	13	21	41	17	8	14	10	17	13	9	8	12	7	6	7	15	18	18	6			
8-Jan-06	7	26	10	20	23	40	21	17	24	59	50	43	45	45	41	13	19	20	51	50	23	29	53	37			
9-Jan-06	38	11	6	58	7	13	34	20	21	10	4	5	7	11	5	4	3	4	5	8	22	34	11	45			
10-Jan-06	36	47	31	28	17	37	32	20	37	18	40	32	14	12	14	29	42	9	8	39	22	20	19	12			
11-Jan-06	12	8	13	8	6	28	26	32	29	34	29	15	17	19	15	18	12	17	18	23	50	8	14	8			
12-Jan-06	7	25	25	29	11	44	22	17	30	15	40	53	33	41	17	18	9	13	8	5	8	26	13	17			
13-Jan-06	11	8	6	6	9	13	17	21	22	21	29	15	58	19	46	34	63	33	50	15	18	42	28	21			
14-Jan-06	51	48	58	29	29	64	42	35	20	30	10	19	28	20	14	37	31	39	35	25	30	21	43	17			
15-Jan-06	28	28	42	55	13	16	16	18	15	23	18	12	14	56	18	54	23	16	12	8	6	6	11	25			
16-Jan-06	44	32	28	13	27	17	14	9	13	33	30	31	21	24	55	35	20	22	22	56	19	8	5	5			
17-Jan-06	5	6	7	7	12	34	15	19	11	13	14	23	57	34	14	19	58	42	23	16	10	21	15	7			
18-Jan-06	7	7	6	7	5	6	5	6	5	4	6	5	6	5	6	5	7	4	5	5	6	8	9	7			
19-Jan-06	8	12	25	20	13	11	14	13	21	10	5	7	7	8	6	8	17	12	12	10	16	11	11	20			
20-Jan-06	11	11	10	53	24	35	66	41	15	34	17	31	44	33	19	21	14	21	26	29	34	57	35	26			
21-Jan-06	18	17	15	29	16	24	22	46	41	17	15	15	20	15	15	22	52	35	26	27	38	32	7	5			
22-Jan-06	5	8	12	6	6	9	14	4	4	7	5	21	9	7	9	20	19	16	42	25	4	4	3	4			
23-Jan-06	3	3	3	3	4	4	5	4	4	4	3	8	3	4	3	3	4	6	12	8	38	34	13	38			
24-Jan-06	10	7	7	18	8	12	29	50	61	24	35	25	51	51	27	4	6	4	4	7	19	24	27	26			
25-Jan-06	19	27	36	15	14	13	30	20	27	44	59	62	43	32	31	38	29	36	28	13	7	29	6	7			
26-Jan-06	7	7	7	31	34	48	45	33	38	16	12	15	12	8	12	13	13	16	12	12	15	12	12	13			
27-Jan-06	15	14	15	13	16	17	14	11	22	15	13	13	17	23	58	28	26	15	19	38	42	16	10	9			
28-Jan-06	12	19	12	17	9	11	7	16	14	17	11	18	37	11	17	16	19	32	36	17	41	9	13	38			
29-Jan-06	44	25	15	15	23	12	20	28	47	21	9	7	9	5	8	7	17	32	11	16	7	6	14	9			
30-Jan-06	9	8	10	10	12	8	10	20	22	8	10	11	12	14	10	19	13	27	63	9	7	9	7	9			
31-Jan-06	10	40	33	37	35	51	12	9	52	13	39	50	29	41	40	48	13	44	20	18	21	22	12	14			

Daily Maximum
64.4
66.8
59.5
57.1
44.7
48.9
51.5
58.8
58.2
46.8
49.6
52.9
63.0
64.3
56.1
56.3
57.6
8.9
25.4
66.1
52.1
41.6
38.3
60.8
61.8
48.0
57.8
40.9
47.1
62.9
51.5

Hourly Max	51	48	58	58	53	64	66	58	61	59	59	62	58	56	58	54	63	44	63	67	50	57	56	45
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	388
5	to	10	150
10	to	20	71
20	to	30	16
30	to	40	8
	>	40	7
Total Non-Zero Values			640

PASZA - Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

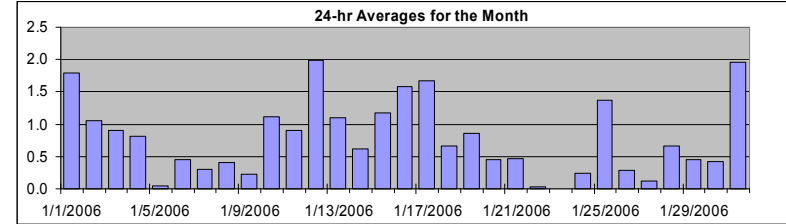
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	6.7 ppb	17-Jan	10:00	11:00
Maximum 24-hr Average:	2.0 ppb	12-Jan		



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	2.8	1.2	0.5	0.0	0.0	0.0	0.8 ppb	0.5 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	2	1	A	1	1	1	1	2	1.8	3.1	
2-Jan-06	2	2	2	2	1	1	2	2	1	1	1	1	1	1	1	1	A	0	1	0	0	0	0	1.1	1.9	
3-Jan-06	1	1	1	1	1	1	1	2	1	1	1	0	0	1	1	1	A	0	0	0	1	1	1	0.9	1.5	
4-Jan-06	1	1	1	1	1	1	1	2	1	0	0	0	1	1	1	A	1	1	0	0	0	0	0	0.8	1.9	
5-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.4	
6-Jan-06	0	0	0	0	0	0	0	0	0	1	0	0	1	A	1	0	1	1	1	2	1	1	0	0.5	1.6	
7-Jan-06	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	1	1	1	1	0.3	1.4	
8-Jan-06	1	1	1	1	1	0	0	0	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0	
9-Jan-06	1	0	0	0	0	0	0	0	0	0	A	0	0	2	0	0	0	0	0	0	0	0	0	0.2	1.5	
10-Jan-06	0	0	0	0	0	0	0	1	1	A	1	2	3	4	3	3	2	1	1	1	1	1	0	1.1	4.2	
11-Jan-06	0	1	1	1	0	0	1	1	A	1	0	1	1	1	0	0	0	1	2	2	2	2	2	0.9	2.1	
12-Jan-06	2	1	1	2	2	2	2	A	3	3	4	3	3	4	3	2	2	1	1	1	1	2	1	2.0	3.6	
13-Jan-06	1	1	0	1	1	1	A	2	0	1	2	2	2	2	1	2	2	2	2	1	1	0	0	1.1	1.9	
14-Jan-06	1	0	0	0	0	A	0	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0.6	1.5	
15-Jan-06	1	1	1	1	A	1	1	1	1	1	1	0	0	1	1	0	1	1	1	3	3	2	2	1.2	2.9	
16-Jan-06	1	1	0	A	1	0	1	1	2	3	3	3	3	3	4	3	2	1	1	1	1	0	1	1.6	3.5	
17-Jan-06	1	1	A	0	0	0	0	0	0	2	7	3	4	4	2	1	1	1	0	1	1	2	3	1.7	6.7	
18-Jan-06	2	A	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0.7	1.7	
19-Jan-06	A	2	1	0	0	0	0	0	0	0	1	2	2	2	1	1	1	1	1	1	1	1	A	0.9	2.2	
20-Jan-06	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	0.5	1.0	
21-Jan-06	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	1	1	1	0	0	A	0	0.5	1.3	
22-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.3	
23-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.1	
24-Jan-06	0	0	0	0	0	0	0	0	2	2	1	C	C	C	C	C	A	0	0	0	0	0	0	0.2	1.6	
25-Jan-06	0	0	1	1	1	A	1	1	1	2	2	3	3	1	1	0	1	3	3	5	2	0	0	1.4	4.5	
26-Jan-06	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0.3	1.3	
27-Jan-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0.1	1.3	
28-Jan-06	1	1	A	1	1	0	0	0	1	1	2	2	1	0	0	0	1	1	0	1	1	0	0	0.7	2.3	
29-Jan-06	0	A	0	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0.5	1.2	
30-Jan-06	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	A	0.4	1.5	
31-Jan-06	0	0	0	0	0	0	1	1	1	2	3	5	3	2	2	2	3	3	3	2	3	4	A	5	2.0	4.6
Hourly Avg	0.6	0.6	0.5	0.5	0.4	0.5	0.6	0.7	0.7	0.9	1.1	1.1	1.2	1.1	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.8			
Hourly Max	2.0	1.9	1.6	1.5	1.8	1.9	2.1	2.0	3.0	3.2	6.7	4.6	4.3	4.2	3.5	2.9	3.1	3.1	3.0	4.5	3.1	4.0	3.4	4.6		

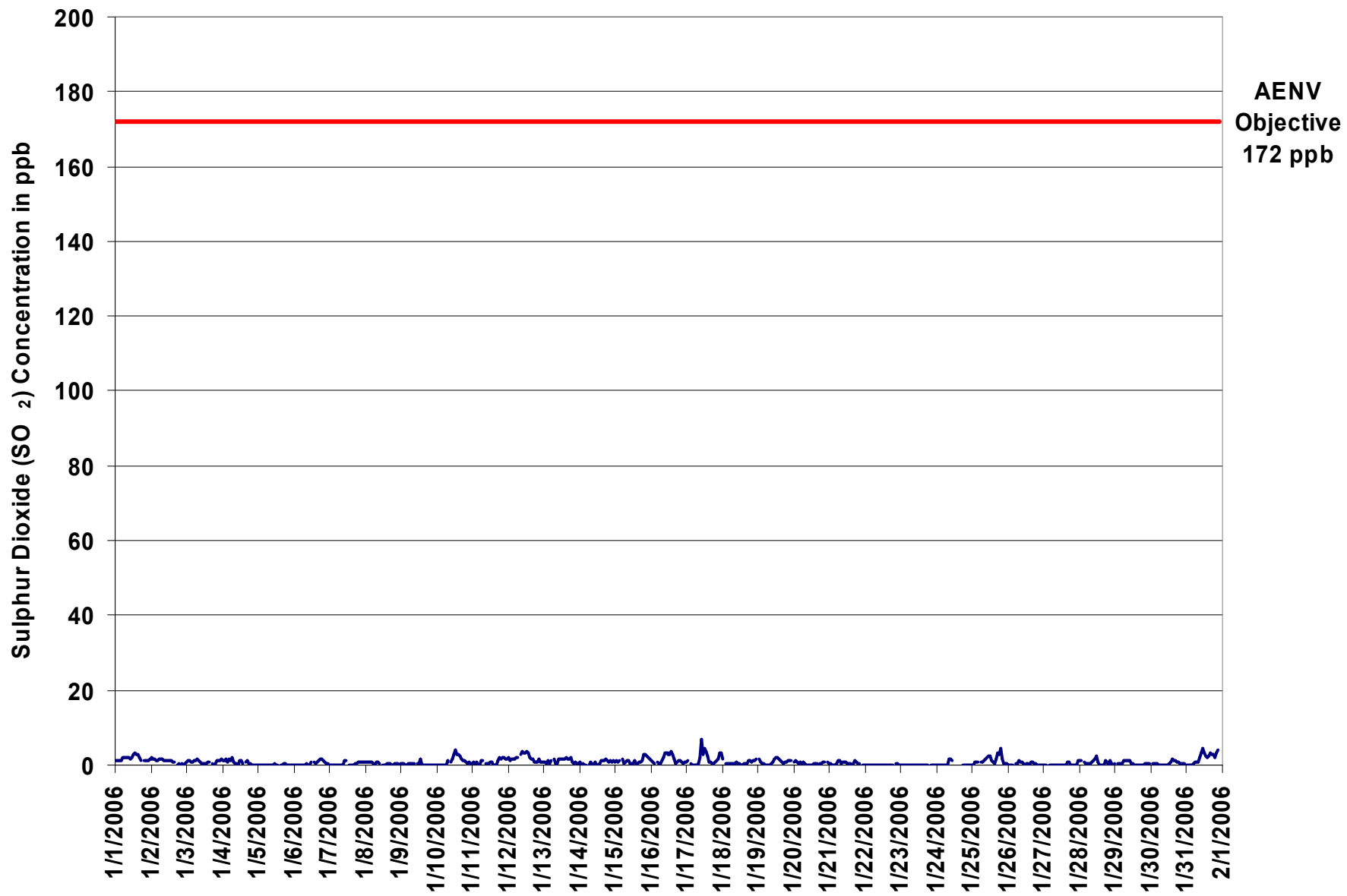


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

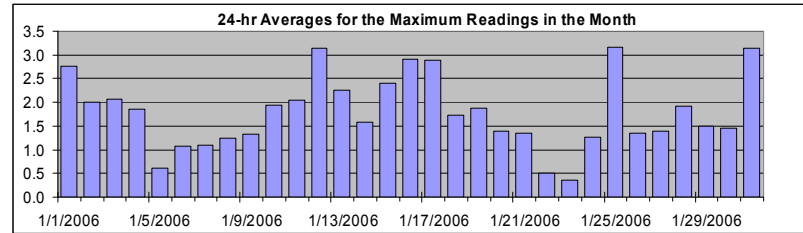
Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	18.6	ppb	25-Jan	19:00 20:00
Maximum 24-hr Value:	3.2	ppb	25-Jan	

AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.1	4.2	2.3	1.6	1.0	0.0	0.0	1.8 ppb	1.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	5	3	2	A	2	2	2	2	3	2.8	4.6	
2-Jan-06	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	A	1	2	1	1	1	1	2.0	3.1	
3-Jan-06	2	2	3	2	2	2	3	2	3	2	2	2	1	1	2	A	2	1	2	3	3	2	3	2.1	2.8		
4-Jan-06	2	3	3	2	2	3	2	3	2	2	2	1	2	2	1	A	2	4	1	2	0	0	1	0	1.9	3.6	
5-Jan-06	0	0	1	0	0	0	0	1	1	1	1	1	1	1	A	1	1	2	1	1	0	0	0	0	0.6	2.2	
6-Jan-06	0	0	0	0	0	0	0	0	1	1	0	2	3	A	2	1	2	2	2	2	2	2	1	1	1.1	2.7	
7-Jan-06	1	1	0	0	0	0	0	1	0	2	2	3	A	1	1	1	1	2	1	2	2	1	2	2	1.1	2.7	
8-Jan-06	2	2	2	1	1	1	1	2	2	1	1	A	1	0	1	1	1	1	1	1	1	1	1	1	1.2	2.0	
9-Jan-06	1	1	1	1	1	1	2	1	1	1	A	1	1	8	4	1	2	0	1	0	1	0	0	0	1.3	8.4	
10-Jan-06	0	0	0	0	0	0	2	2	1	A	2	3	5	5	4	4	3	2	2	2	2	2	1	1	1.9	5.1	
11-Jan-06	2	2	2	2	1	1	2	2	A	2	1	1	2	2	2	1	1	3	3	3	3	3	3	3	2.0	3.4	
12-Jan-06	3	2	3	2	3	3	4	A	5	4	5	4	4	4	4	3	2	3	2	2	2	3	2	2	3.1	4.6	
13-Jan-06	2	2	2	2	2	2	A	3	1	2	3	3	3	2	2	4	3	3	3	2	2	2	1	1	2.3	4.1	
14-Jan-06	2	1	1	0	1	A	1	2	1	2	1	2	1	1	2	2	2	2	2	3	2	2	2	2	1.6	2.5	
15-Jan-06	2	2	2	2	A	3	2	2	3	3	2	2	2	2	1	1	1	3	3	4	4	4	3	2	2.4	3.9	
16-Jan-06	2	2	1	A	2	2	2	3	4	5	5	4	4	4	4	3	3	3	2	2	2	2	2	2	2.9	4.9	
17-Jan-06	2	2	A	1	1	1	1	1	1	6	8	5	5	5	4	2	2	2	1	2	2	2	5	4	2.9	8.2	
18-Jan-06	3	A	1	1	1	1	1	1	1	2	1	1	1	1	1	1	6	2	2	2	2	2	2	2	1.7	6.1	
19-Jan-06	A	3	2	1	1	1	0	0	1	2	2	3	3	3	2	2	2	2	2	2	3	2	2	A	1.9	3.4	
20-Jan-06	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	A	2	1.4	2.0
21-Jan-06	1	1	1	1	1	1	2	2	2	1	1	2	1	1	1	1	1	2	2	1	2	A	1	0	1.4	2.3	
22-Jan-06	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	A	1	1	1	0.5	1.4	
23-Jan-06	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	A	1	1	1	0	0.4	1.4	
24-Jan-06	1	1	0	0	1	1	1	1	3	2	2	C	C	C	C	C	A	0	0	7	1	0	1	1	1.3	6.8	
25-Jan-06	0	1	2	2	2	A	2	2	2	3	3	4	4	3	2	1	3	4	4	19	6	1	2	1	3.2	18.6	
26-Jan-06	1	1	0	1	A	1	1	3	2	1	2	0	1	1	1	2	2	2	1	1	2	1	1	1	1.4	2.5	
27-Jan-06	1	1	1	A	1	0	1	1	0	0	0	0	0	0	1	1	2	2	2	1	1	1	1	11	1.4	11.0	
28-Jan-06	2	2	A	2	2	2	2	2	3	2	3	4	2	0	0	0	2	2	2	2	2	2	2	2	1.9	4.4	
29-Jan-06	1	A	1	1	2	1	2	2	2	2	2	2	1	1	5	0	1	0	1	1	2	1	1	2	1.5	5.1	
30-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	2	2	3	1	1	1	1	A	1.4	3.2	
31-Jan-06	1	1	1	1	1	1	1	2	2	3	5	6	5	4	3	4	5	4	4	4	4	6	A	6	3.1	6.1	
Hourly Avg	1.5	1.4	1.3	1.2	1.2	1.3	1.5	1.5	1.7	2.1	2.1	2.2	2.2	2.2	2.1	1.8	2.0	2.0	1.8	2.5	2.0	1.8	1.6	2.0			
Hourly Max	3.4	3.1	2.9	2.5	3.0	2.9	3.6	2.8	4.6	5.8	8.2	6.1	5.4	8.4	5.1	4.6	6.1	4.4	4.0	18.6	5.9	5.5	4.8	11.0			

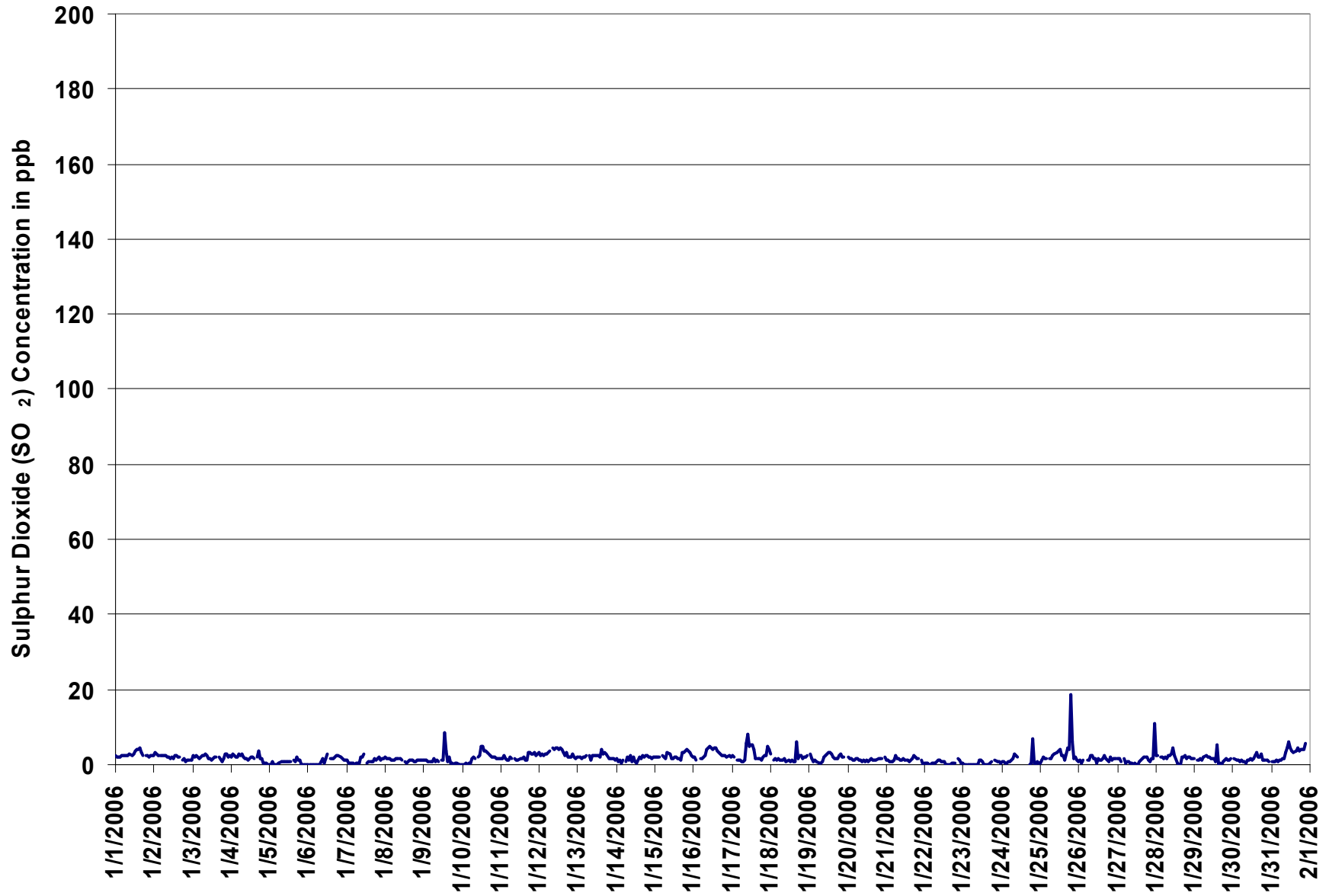
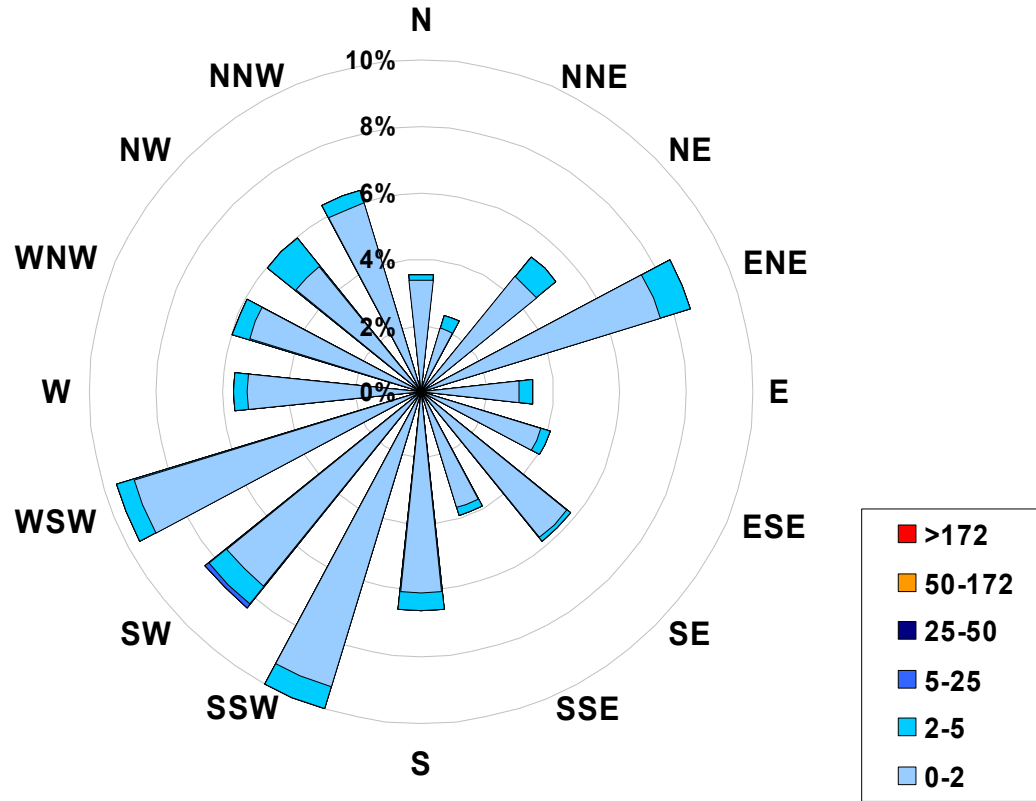


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	644	
2	to 5	61	
5	to 25	1	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			706

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

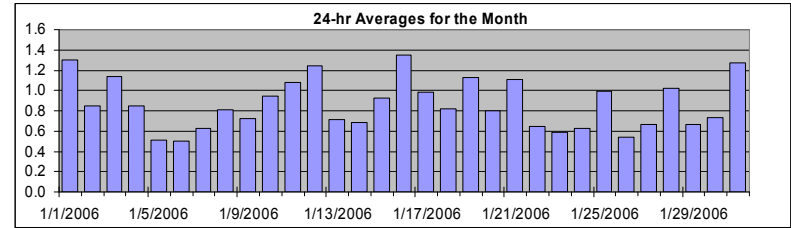
Total Reduced Sulphur (TRS)

Station: Evergreen Park
 Station Owner: PASZA

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Maximum 1-hr Average:	2.8	ppb	31-Jan	10:00 11:00
Maximum 24-hr Value:	1.4	ppb	16-Jan	



AIC Time:	35 hrs	Operational Time:	704 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.5	1.0	0.8	0.6	0.5	0.4	0.9 ppb	0.8 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	A	1	1	1	1	1	1	1.3	2.4
2-Jan-06	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.1
3-Jan-06	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.6
4-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.2
5-Jan-06	1	1	1	1	1	0	0	0	0	1	0	0	1	1	A	1	0	1	1	0	0	0	0	0	0	0.5	0.7
6-Jan-06	0	0	0	0	0	0	0	0	0	1	0	0	1	A	1	0	1	1	1	1	1	1	0	0	0	0.5	0.8
7-Jan-06	0	0	0	0	0	0	0	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
8-Jan-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
9-Jan-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
10-Jan-06	1	1	1	1	1	1	1	1	1	A	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	0.9	2.0
11-Jan-06	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	1.4
12-Jan-06	1	1	1	1	1	1	1	A	2	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.2	1.8
13-Jan-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
14-Jan-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
15-Jan-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
16-Jan-06	1	1	1	A	1	1	1	1	1	2	2	2	1	2	2	1	2	2	2	2	2	1	1	1	1	1.4	2.2
17-Jan-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.0	1.7
18-Jan-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
19-Jan-06	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	1.8
20-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.3
21-Jan-06	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	1.7
22-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.8
23-Jan-06	1	1	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.7
24-Jan-06	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	A	1	1	1	1	1	1	1	1	0.6	0.8
25-Jan-06	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1.0	1.6
26-Jan-06	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.8
27-Jan-06	0	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
28-Jan-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
29-Jan-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0.7	0.9
30-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.9
31-Jan-06	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1	1	A	A	1	1	1	1	2	2	A	1.3	2.8
Hourly Avg	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7			
Hourly Max	1.6	1.5	1.3	1.5	1.3	1.3	1.6	1.9	2.0	1.9	2.8	2.4	2.4	2.0	2.2	1.4	1.8	2.0	1.9	2.0	1.4	1.8	2.0	1.4			

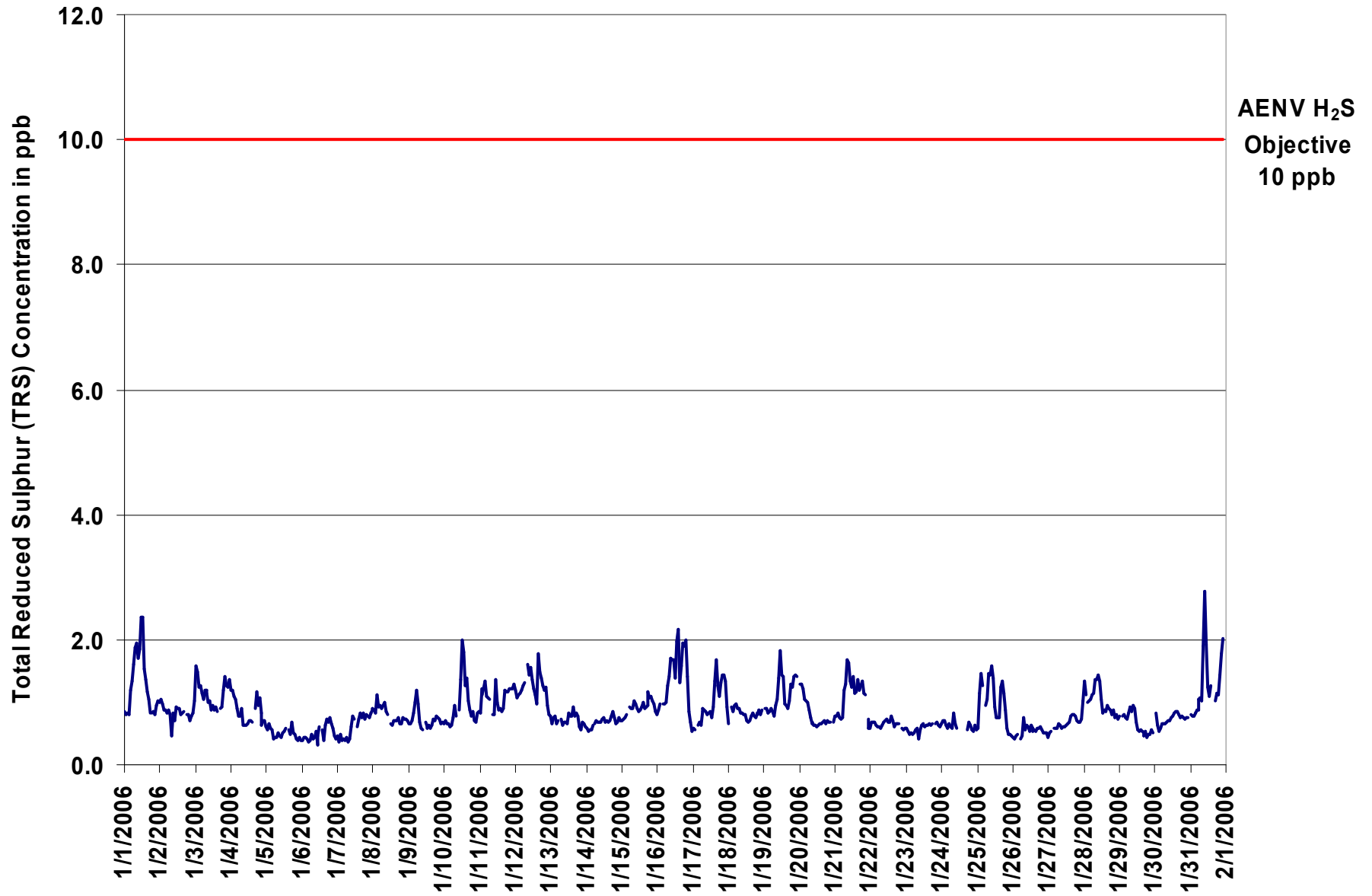


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

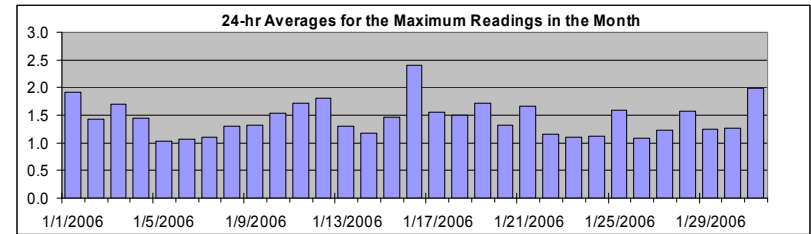
Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	5.7	ppb	16-Jan	16:00 17:00
Maximum 24-hr Value:	2.4	ppb	16-Jan	

AIC Time:	35 hrs	Operational Time:	704 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	2.2	1.6	1.3	1.1	1.0	0.9	1.4 ppb	1.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jan-06	1	1	1	1	2	2	2	3	3	2	2	3	3	2	2	2	2	1	A	1	1	2	1	2	1.9	3.0	
2-Jan-06	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	A	1	1	1	1	1	2	1.4	2.0	
3-Jan-06	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	A	1	1	2	2	2	2	2	1.7	2.4	
4-Jan-06	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	2	3	2	2	1	1	1	1.4	2.7	
5-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.0	1.4
6-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.1	1.4
7-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
8-Jan-06	1	1	1	2	2	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	1.7
9-Jan-06	1	1	2	1	2	2	1	1	1	1	A	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1.3	2.8
10-Jan-06	1	1	1	1	1	1	1	2	1	A	1	2	3	3	2	2	1	1	1	2	1	1	1	1	1	1.5	3.0
11-Jan-06	1	2	2	2	2	2	2	2	A	1	2	2	2	1	2	1	2	2	2	2	2	2	2	2	2	1.7	2.0
12-Jan-06	2	2	1	2	2	2	2	A	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	1	1	1.8	2.4
13-Jan-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1.3	2.1
14-Jan-06	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.5
15-Jan-06	1	1	1	1	A	1	1	2	2	2	1	1	1	1	2	1	1	2	2	1	2	2	2	1	1	1.5	1.7
16-Jan-06	1	1	1	A	2	2	2	2	2	2	2	2	2	4	3	2	6	6	3	4	2	2	2	1	2.4	5.7	
17-Jan-06	2	1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1.6	2.3
18-Jan-06	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1.5	4.3
19-Jan-06	A	1	1	1	1	1	1	1	2	2	3	2	2	2	2	1	1	1	2	2	2	2	2	A	1.7	2.8	
20-Jan-06	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.3	1.9	
21-Jan-06	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	A	1	1	1.7	2.6	
22-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.1	1.4
23-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.4
24-Jan-06	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	A	1	1	1	1	1	1	1	1.1	1.2	
25-Jan-06	1	1	2	2	2	A	1	2	2	2	2	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1.6	2.2
26-Jan-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
27-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.2	2.6	
28-Jan-06	2	2	A	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1.6	2.0
29-Jan-06	2	A	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1.2	1.8
30-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.3	1.5	
31-Jan-06	2	1	1	1	1	1	1	2	2	5	4	2	2	2	2	2	A	A	1	2	2	2	3	A	2.0	4.7	
Hourly Avg	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.4	1.7	1.6	1.5	1.5	1.4	1.4	1.4	1.3			
Hourly Max	2.2	2.4	2.1	2.2	2.3	2.5	2.2	2.8	2.8	4.7	4.2	3.0	2.9	3.6	3.0	2.4	5.7	5.6	3.4	3.8	2.1	2.2	2.6	2.6			

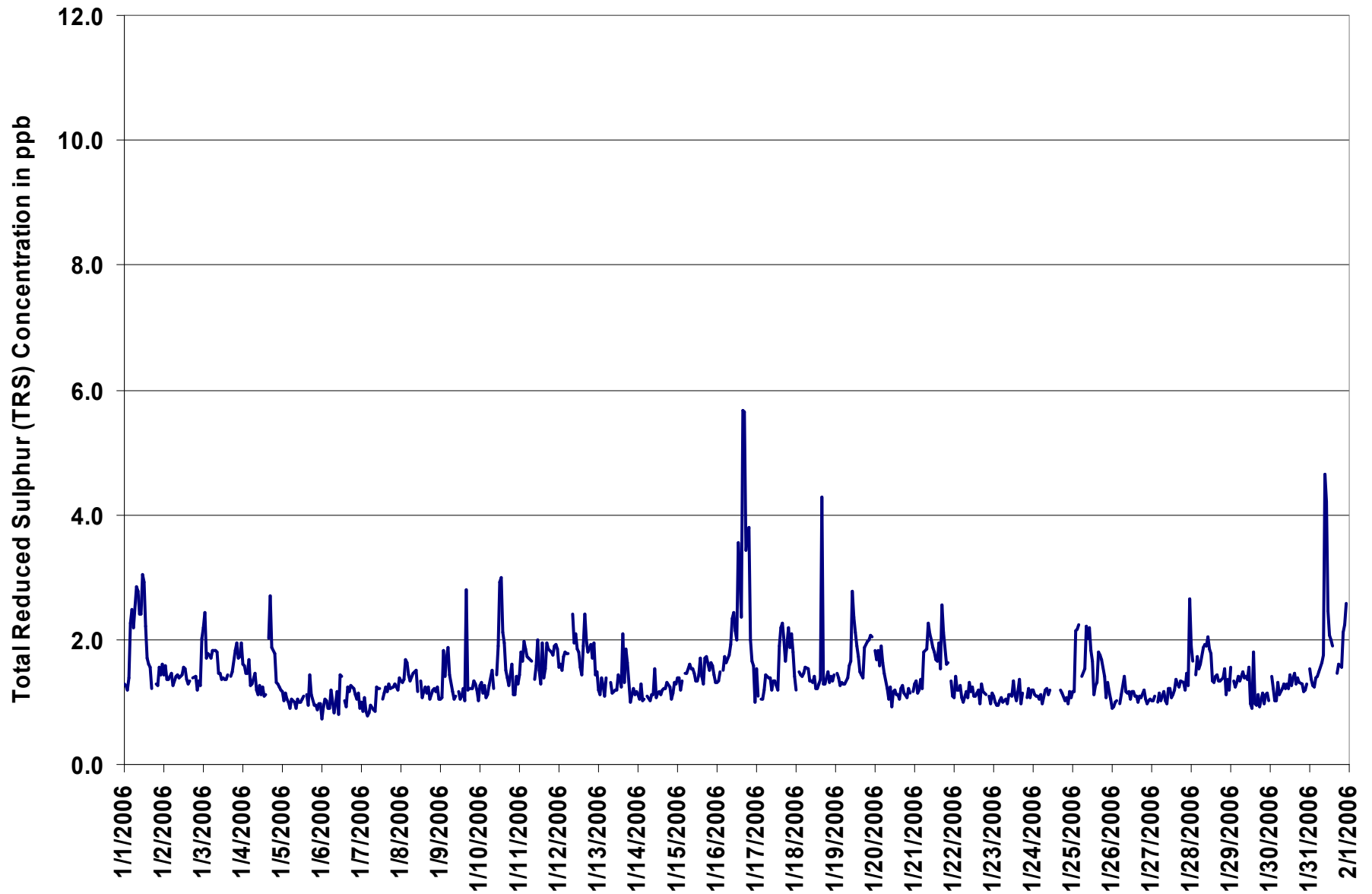
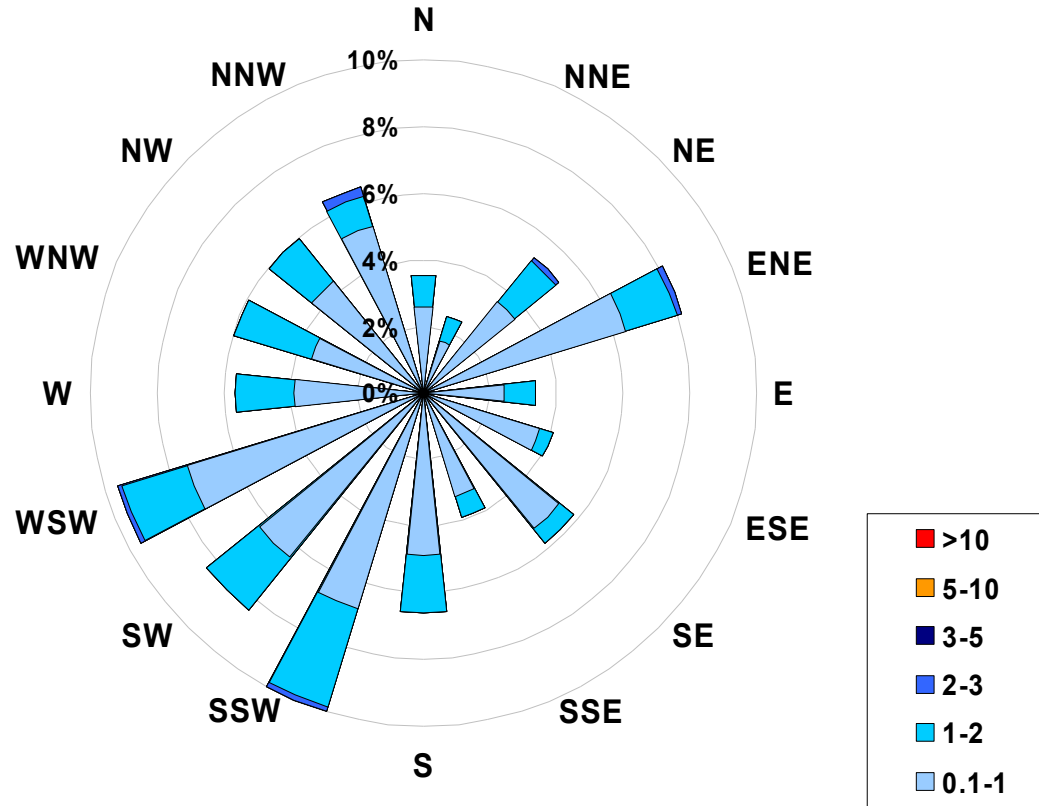


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	526
1	to	2	172
2	to	3	6
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			704

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

Station: Evergreen Park
 Station Owner: PASZA

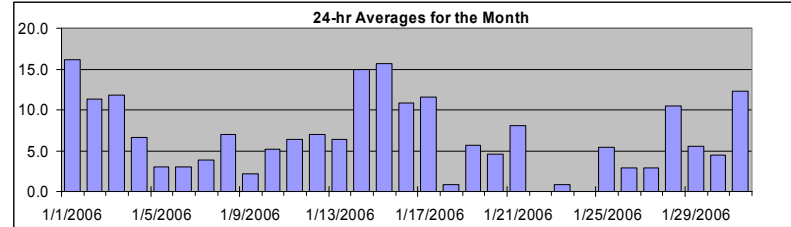
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$

Number of 24-hr Exceedances (draft):		0	
Maximum 1-hr Average:	39.5 $\mu\text{g}/\text{m}^3$	25-Jan	17:00 18:00
Maximum 24-hr Value:	16.1 $\mu\text{g}/\text{m}^3$	1-Jan	



AIC Time:	0 hrs	Operational Time:	722 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	98.0%
Percentile	99	95	75
	24.1	19.2	10.5
	5.8	1.9	0.0
	0.0	0.0	0.0
Average / Median	6.9		7 $\mu\text{g}/\text{m}^3$
Geomean	5.7 $\mu\text{g}/\text{m}^3$		

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jan-06	15	15	16	14	18	19	20	21	21	20	22	18	19	21	18	13	12	11	12	11	11	11	13	13	16.1	22.2
2-Jan-06	13	13	12	9	10	9	11	11	11	11	11	17	12	12	12	10	9	8	8	8	9	12	18	18	11.4	18.4
3-Jan-06	28	21	20	18	16	13	15	14	11	10	9	9	4	6	6	4	4	6	6	10	13	13	14	14	11.8	28.0
4-Jan-06	11	12	12	11	8	7	7	7	5	6	7	7	10	6	5	3	3	9	3	4	3	1	6	5	6.7	12.4
5-Jan-06	5	6	7	6	3	2	0	0	0	0	1	4	1	3	11	6	1	5	4	7	0	0	0	0	3.0	10.6
6-Jan-06	0	0	0	0	0	0	0	0	0	1	3	0	3	14	4	6	2	5	8	6	5	5	4	3	3.0	13.7
7-Jan-06	3	3	2	2	0	1	3	3	5	6	10	11	2	0	3	2	4	6	1	4	7	5	5	5	3.9	10.5
8-Jan-06	6	6	5	5	5	5	5	6	8	9	9	9	7	3	7	5	9	7	8	9	8	8	9	11	7.0	10.8
9-Jan-06	10	5	5	5	8	8	7	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.2	10.2
10-Jan-06	0	0	0	0	0	0	0	1	4	4	8	14	18	19	9	11	8	3	3	4	2	3	8	6	5.2	19.2
11-Jan-06	5	9	10	7	3	6	6	7	5	4	9	8	11	3	4	3	5	4	4	8	8	9	7	8	6.4	10.8
12-Jan-06	7	5	7	9	8	7	10	9	13	10	18	15	10	10	10	2	0	0	0	1	1	10	3	4	7.0	18.3
13-Jan-06	2	2	3	2	4	5	6	5	3	5	6	7	7	9	8	13	14	8	8	10	7	7	6	8	6.4	13.9
14-Jan-06	5	6	7	7	13	11	24	21	24	23	26	21	15	14	13	10	14	16	16	16	10	12	14	13	15.0	25.8
15-Jan-06	19	24	23	16	11	14	20	22	20	23	19	14	14	13	14	17	11	13	14	11	15	12	7	8	15.6	24.1
16-Jan-06	8	8	8	9	8	8	9	11	13	17	19	22	18	8	12	7	5	8	7	10	10	13	13	8	10.8	22.4
17-Jan-06	4	1	1	0	0	1	4	7	11	12	12	15	15	16	15	15	13	14	17	23	24	23	21	12	11.5	24.0
18-Jan-06	4	5	2	1	1	0	2	1	0	0	1	0	0	0	0	1	3	0	0	2	0	0	0	0	0.9	4.7
19-Jan-06	0	0	0	0	0	0	D	D	0	3	9	20	13	12	8	8	6	5	5	3	7	11	7	6	5.7	20.1
20-Jan-06	4	3	3	3	2	3	3	3	2	2	1	3	3	5	7	7	6	6	9	9	8	8	9	9	4.6	9.0
21-Jan-06	6	2	2	2	2	2	6	8	8	11	16	16	7	10	11	12	12	13	9	8	9	7	14	0	8.0	15.6
22-Jan-06	0	0	2	D	D	D	0	0	0	D	0	0	D	D	0	0	0	2	D	0	2	0	0	0	N	2.2
23-Jan-06	0	0	0	0	0	0	0	0	0	1	2	3	0	0	1	1	4	3	1	0	0	4	2	0	0.9	3.8
24-Jan-06	0	0	0	0	D	0	D	D	0	1	7	3	5	7	0	C	C	C	C	C	C	0	D	N	7.4	
25-Jan-06	D	0	4	1	0	0	0	0	1	4	7	9	3	4	4	4	13	39	15	11	2	2	2	0	5.4	39.5
26-Jan-06	0	0	0	0	0	0	0	0	2	3	4	2	6	7	5	5	4	5	6	5	4	3	3	2	2.9	7.1
27-Jan-06	1	1	1	1	1	1	2	2	3	2	2	2	2	2	2	4	4	3	5	3	3	4	7	12	2.8	11.7
28-Jan-06	10	6	6	5	5	5	6	8	12	12	17	20	12	9	12	14	15	14	12	11	11	10	10	10	10.5	19.8
29-Jan-06	10	10	11	11	9	9	10	11	10	12	14	7	0	0	0	0	0	0	D	0	0	2	0	0	5.5	14.5
30-Jan-06	0	0	1	1	2	3	4	4	5	7	7	6	6	7	7	8	8	7	8	5	4	4	3	2	4.4	8.2
31-Jan-06	3	4	4	6	6	8	7	8	9	15	29	29	12	8	18	15	12	10	11	11	15	19	20	18	12.3	28.8
Hourly Avg	6.0	5.4	5.6	5.0	5.0	5.3	6.5	6.7	6.7	7.9	9.8	10.1	8.2	7.1	7.3	6.7	6.9	7.9	6.9	6.9	6.5	7.3	7.3	6.5		
Hourly Max	28.0	24.1	23.2	17.6	17.6	21.0	24.4	22.1	24.2	23.1	28.8	28.8	19.4	21.3	18.4	17.2	14.7	39.5	16.8	22.7	24.0	22.9	21.3	18.0		

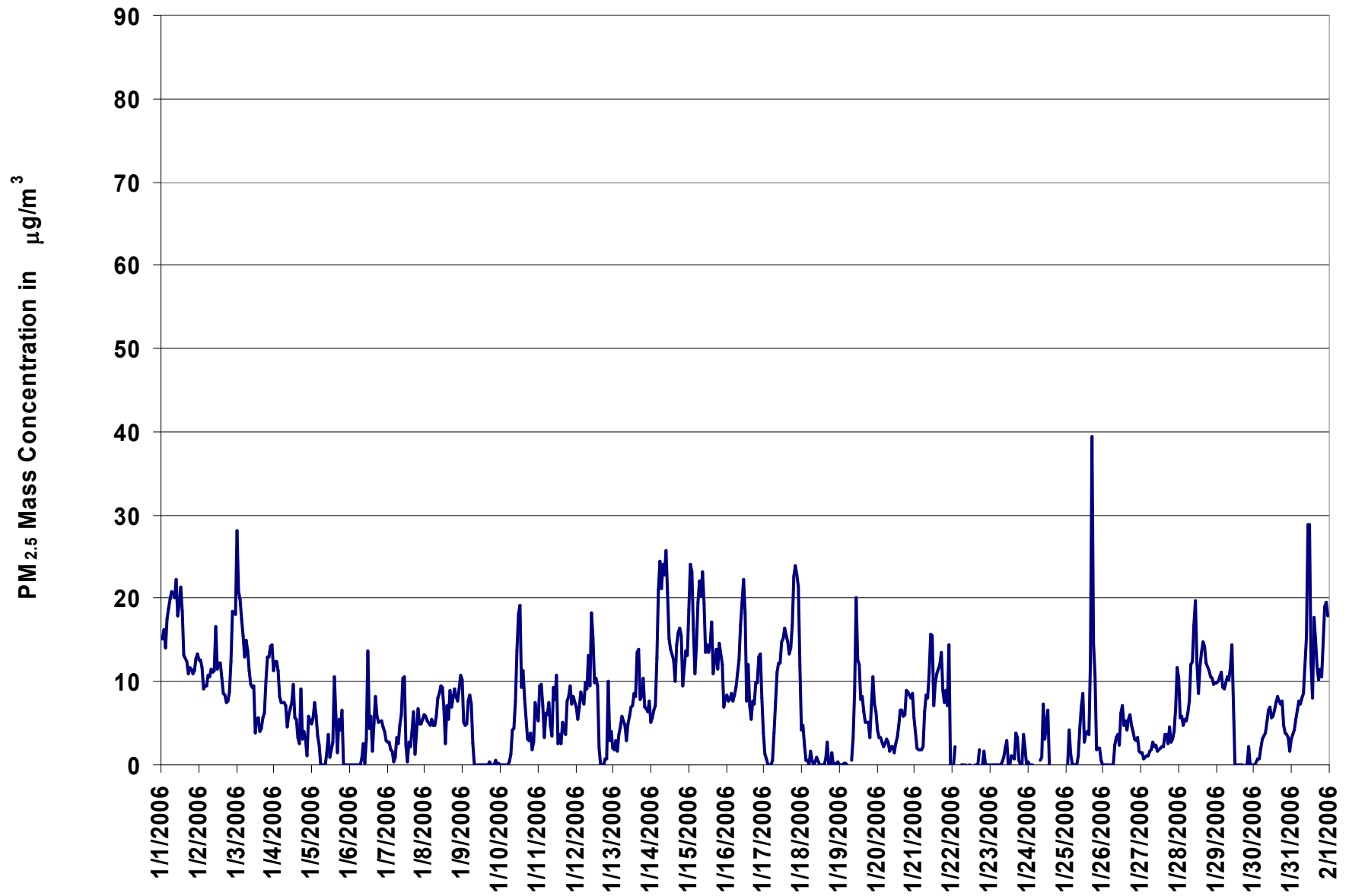


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

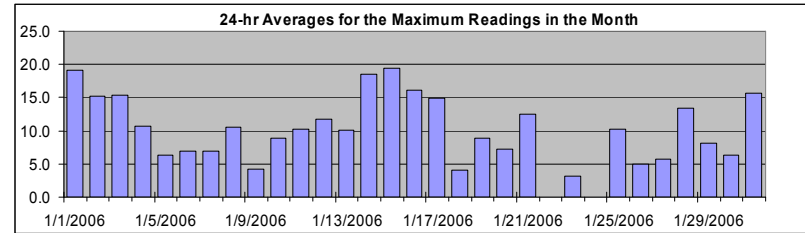
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	45.7	µg/m ³	25-Jan	17:00 18:00
Maximum 24-hr Value:	19.4	µg/m ³	15-Jan	



AIC Time:	0 hrs	Operational Time:	722 hrs							
Calibration Time:	7 hrs	AMD Operational Uptime:	98.0%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	29.6	24.5	14.5	9.4	4.5	0.8	0.0	10.3	10 µg/m ³	9.4 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	17	18	18	17	23	22	23	25	22	24	26	22	22	24	22	16	15	14	14	15	13	15	15	15	19.1	25.7
2-Jan-06	15	16	20	11	11	11	13	13	15	14	14	23	19	16	16	12	11	10	10	11	13	17	27	29	15.3	28.6
3-Jan-06	36	24	22	20	18	15	18	17	15	12	13	13	9	10	10	6	9	9	11	16	15	16	19	16	15.4	35.8
4-Jan-06	13	13	15	13	10	9	11	10	8	8	11	15	14	11	10	7	8	27	7	7	8	5	9	8	10.8	26.8
5-Jan-06	8	8	9	9	7	4	3	3	1	6	6	7	10	6	18	11	3	12	6	11	4	0	1	0	6.3	17.5
6-Jan-06	3	1	0	0	1	3	1	2	3	6	2	18	40	12	9	5	8	10	7	8	8	6	6	5	6.9	40.3
7-Jan-06	4	5	3	4	2	2	5	5	6	8	19	20	8	2	4	4	8	12	4	6	11	8	7	9	6.9	20.0
8-Jan-06	10	10	9	8	7	7	7	12	11	12	12	15	12	6	10	11	13	10	11	13	11	12	14	14	10.6	14.5
9-Jan-06	14	8	6	8	13	15	10	5	2	1	2	0	1	0	0	1	2	2	0	1	0	6	2	2	4.2	14.6
10-Jan-06	5	2	2	0	2	1	3	3	7	8	11	18	29	29	13	16	12	7	7	8	5	4	11	10	8.9	29.4
11-Jan-06	9	14	14	10	6	9	9	10	9	6	18	16	17	7	10	4	9	7	6	13	12	14	9	10	10.3	17.6
12-Jan-06	10	7	11	12	11	10	14	12	22	11	25	21	15	18	15	4	3	4	1	3	11	24	9	10	11.8	24.9
13-Jan-06	6	4	6	3	7	8	8	8	4	8	10	13	10	11	12	20	23	12	11	14	10	12	11	10	10.0	22.5
14-Jan-06	6	9	15	9	17	27	27	26	26	26	28	29	17	17	16	12	18	19	21	21	13	13	16	15	18.5	28.8
15-Jan-06	25	25	26	22	13	19	27	24	24	24	23	17	16	16	19	22	18	15	18	14	19	19	10	11	19.4	27.5
16-Jan-06	12	11	11	12	10	11	12	14	18	21	30	29	24	17	18	12	16	16	12	15	16	19	17	13	16.1	29.7
17-Jan-06	7	3	3	2	3	3	6	12	14	16	14	17	20	20	22	16	19	19	22	27	27	25	25	16	15.0	27.4
18-Jan-06	7	8	5	3	3	2	5	5	2	4	3	2	4	0	2	3	16	2	0	12	2	3	2	3	4.1	16.2
19-Jan-06	1	1	1	2	3	1	D	D	6	7	18	27	16	17	10	10	9	7	8	7	10	13	10	8	8.9	27.4
20-Jan-06	6	6	6	5	6	4	6	4	4	4	5	4	5	6	8	9	10	8	9	13	13	11	11	11	7.2	12.9
21-Jan-06	10	5	5	4	5	6	12	13	13	14	19	23	11	14	17	15	14	16	14	10	13	10	35	2	12.5	35.2
22-Jan-06	0	6	6	D	D	D	2	2	0	D	1	0	D	D	2	11	4	21	D	1	8	5	1	1	N	21.1
23-Jan-06	0	1	0	1	2	0	1	2	3	2	5	6	3	2	3	3	7	7	5	3	2	12	4	1	3.1	12.2
24-Jan-06	3	1	0	0	D	0	D	D	4	4	12	11	11	12	3	C	C	C	C	C	C	C	1	D	N	12.3
25-Jan-06	D	0	14	3	2	0	1	1	3	7	12	13	9	5	6	9	24	46	31	20	17	6	4	3	10.2	45.7
26-Jan-06	3	0	0	1	2	0	1	5	6	6	5	8	8	7	8	8	8	8	6	6	6	6	6	5	4.9	8.2
27-Jan-06	4	5	2	3	2	2	4	3	5	4	4	3	4	5	4	6	5	4	12	6	6	6	11	27	5.7	26.7
28-Jan-06	17	8	8	6	7	8	9	12	15	15	20	28	16	13	14	16	17	17	15	13	13	13	12	13	13.4	27.6
29-Jan-06	13	13	12	13	11	12	13	13	13	15	18	19	0	6	4	1	0	1	D	0	2	6	1	1	8.1	19.4
30-Jan-06	1	0	3	3	4	5	5	5	6	8	8	7	8	9	10	11	9	9	15	7	6	5	4	3	6.3	15.0
31-Jan-06	4	5	6	7	9	11	10	10	11	21	32	30	25	15	21	17	14	13	14	16	20	20	22	21	15.6	32.0
Hourly Avg	8.9	7.7	8.3	7.0	7.6	7.6	9.1	9.6	9.6	10.7	13.8	15.3	13.5	11.1	10.8	9.9	11.0	12.1	10.6	10.6	10.4	11.1	10.7	9.6		
Hourly Max	35.8	25.4	25.5	22.4	23.3	27.0	27.5	26.5	26.1	25.6	32.0	30.5	40.3	29.4	22.0	21.6	23.7	45.7	31.2	27.4	27.4	25.3	35.2	28.6		

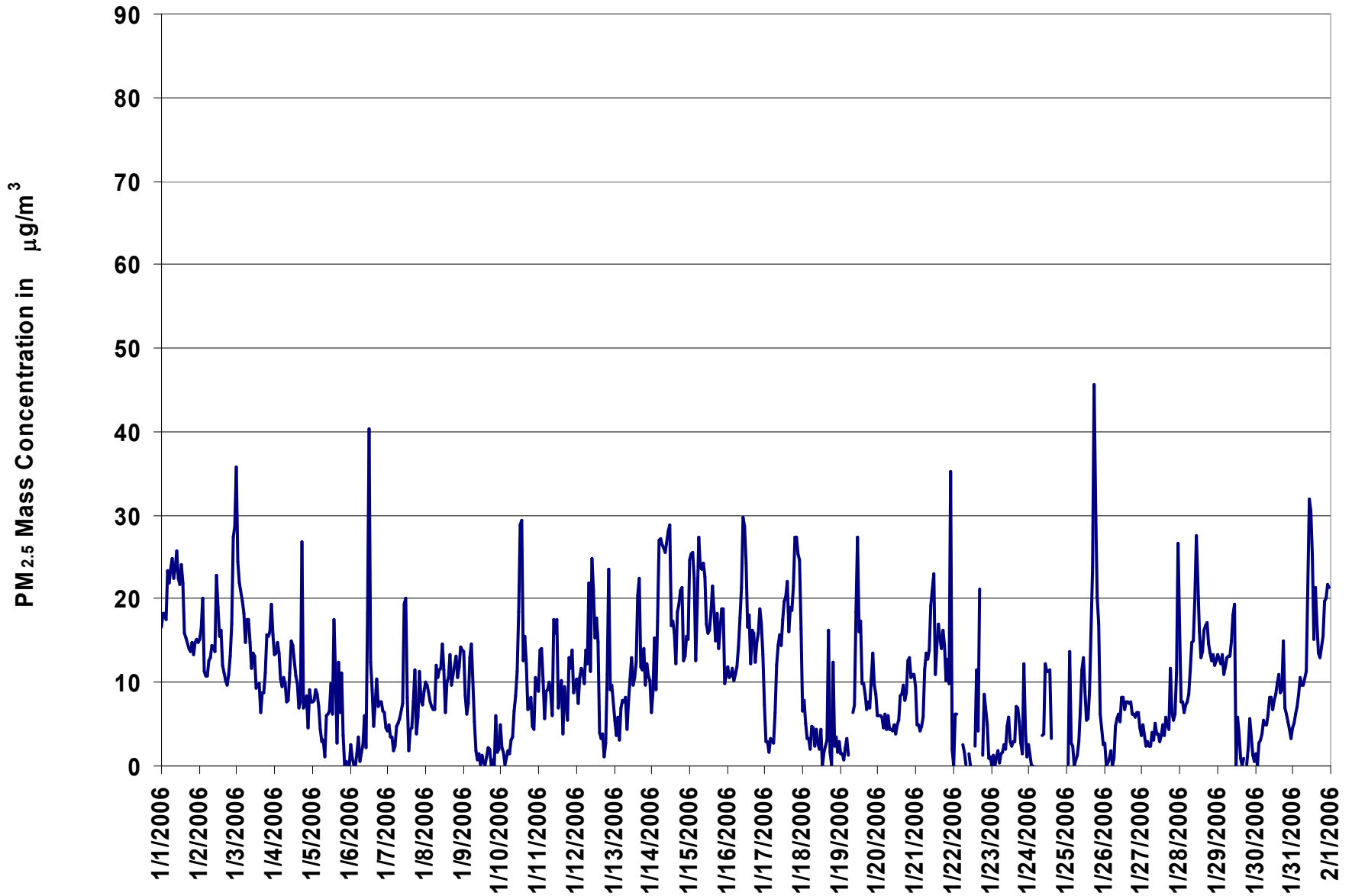
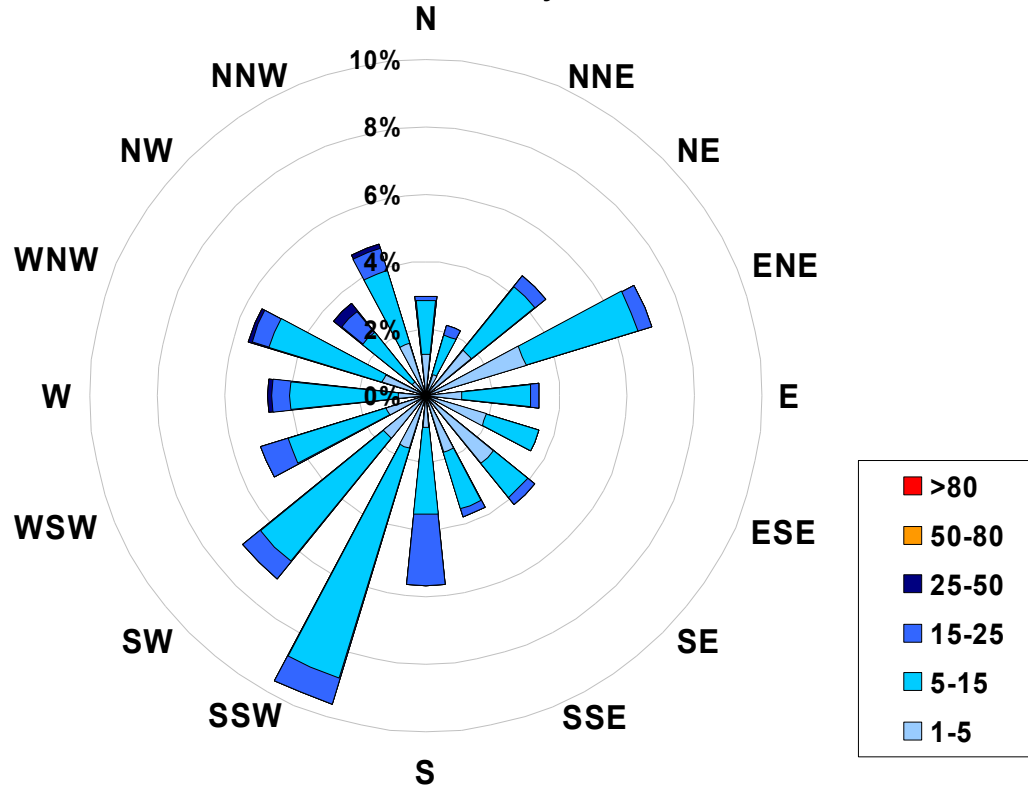


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	324
5	to	15	326
15	to	25	67
25	to	50	5
50	to	80	0
	>	80	0
Total Non-Zero Values			722

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

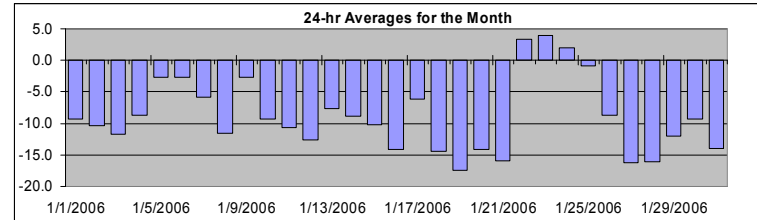
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	11.2	°C	24-Jan	16:00 17:00
Maximum 24-hr Value:	3.9	°C	23-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
	6.6	4.0	-4.1	-9.3	-14.0	-19.5	-21.9	-8.9 °C	-9.3 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum					
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00	8:00	9:00	10:00	11:00	12:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00			20:00	21:00	22:00	23:00	0:00
1-Jan-06			-12	-11	-10	-10	-10	-10	-9	-9	-9	-9	-8	-7	-5	-4	-4	-4	-4	-4	-7	-9	-11	-12	-13	-13	-13	-13	-13	-9.3	-3.7
2-Jan-06			-12	-12	-11	-11	-12	-13	-13	-13	-13	-13	-10	-7	-5	-3	-3	-3	-5	-8	-10	-11	-12	-13	-13	-13	-14	-14	-10.4	-2.7	
3-Jan-06			-13	-13	-14	-14	-15	-14	-14	-15	-15	-16	-15	-11	-6	-4	-2	-2	-7	-10	-12	-13	-14	-14	-15	-14	-14	-11.8	-1.5		
4-Jan-06			-14	-14	-13	-12	-12	-13	-12	-11	-9	-8	-8	-5	-3	-1	-1	-1	-4	-6	-8	-10	-11	-11	-11	-11	-11	-8.7	-0.5		
5-Jan-06			-10	-9	-8	-7	-5	-4	-3	-4	-4	-4	-3	-3	-1	0	-1	-1	-2	-3	-4	-2	3	4	3	3	-2.6	3.5			
6-Jan-06			2	2	2	1	0	-3	-4	-6	-6	-6	-6	-5	-3	-2	-2	-2	-3	-3	-4	-4	-4	-3	-3	-3	-2.6	2.4			
7-Jan-06			-3	-4	-4	-4	-5	-7	-7	-7	-7	-7	-7	-4	-2	0	0	0	-2	-5	-7	-9	-10	-11	-12	-13	-5.9	0.4			
8-Jan-06			-14	-15	-15	-16	-15	-15	-15	-15	-15	-13	-11	-9	-8	-6	-7	-9	-10	-10	-9	-9	-10	-11	-10	-10	-11.6	-5.7			
9-Jan-06			-8	-8	-9	-10	-10	-9	-7	-2	-1	-1	0	1	2	3	3	3	2	0	0	0	-1	-3	-2	-5	-2.7	3.3			
10-Jan-06			-5	-8	-9	-10	-11	-12	-13	-13	-13	-12	-11	-9	-7	-6	-5	-5	-6	-7	-9	-10	-11	-11	-12	-12	-10.6	-1.0			
11-Jan-06			-13	-14	-14	-13	-14	-15	-15	-14	-14	-15	-13	-8	-6	-3	-1	-1	-3	-7	-9	-11	-12	-12	-13	-14	-12.6	-2.9			
12-Jan-06			-15	-15	-16	-16	-15	-16	-17	-17	-18	-18	-16	-10	-7	-5	-3	-3	-6	-11	-13	-13	-14	-14	-14	-11	-12.6	-2.9			
13-Jan-06			-11	-10	-8	-8	-8	-8	-8	-8	-8	-8	-7	-7	-7	-7	-6	-6	-6	-7	-7	-7	-8	-8	-8	-8	-7.7	-6.2			
14-Jan-06			-8	-8	-8	-8	-8	-8	-8	-8	-8	-9	-9	-9	-9	-9	-9	-9	-10	-10	-10	-10	-9	-9	-9	-9	-8.9	-8.1			
15-Jan-06			-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-10	-10	-10	-9	-9	-8	-8	-10	-12	-14	-13	-11	-14	-16	-10.2	-7.7			
16-Jan-06			-17	-18	-18	-19	-19	-19	-20	-20	-20	-19	-17	-13	-10	-9	-8	-7	-10	-11	-13	-13	-12	-10	-9	-8	-14.1	-7.1			
17-Jan-06			-7	-7	-6	-6	-5	-5	-6	-7	-7	-7	-7	-6	-5	-4	-4	-4	-4	-4	-6	-7	-8	-8	-8	-7	-7	-6.1	-3.5		
18-Jan-06			-7	-8	-9	-11	-13	-14	-14	-14	-14	-15	-15	-15	-15	-15	-16	-16	-16	-16	-16	-17	-17	-17	-17	-17	-16	-14.4	-6.7		
19-Jan-06			-16	-16	-18	-18	-17	-16	-18	-20	-21	-22	-21	-18	-16	-14	-15	-14	-15	-16	-17	-19	-20	-18	-16	-16	-17.4	-13.7			
20-Jan-06			-16	-17	-16	-16	-17	-17	-17	-17	-16	-16	-15	-14	-13	-12	-12	-12	-11	-12	-12	-12	-12	-12	-12	-12	-14.1	-11.4			
21-Jan-06			-13	-16	-18	-20	-21	-22	-22	-22	-22	-22	-20	-18	-17	-15	-13	-12	-13	-13	-13	-15	-16	-16	-13	-2	0	-15.9	0.0		
22-Jan-06			0	0	2	1	1	1	2	3	3	4	4	4	4	4	4	5	4	5	7	4	1	2	6	7	6	3.3	6.7		
23-Jan-06			6	6	6	6	5	5	5	4	4	4	4	4	4	5	5	5	4	3	3	3	1	1	1	0	3.9	6.2			
24-Jan-06			-1	-1	0	-1	-1	-1	-2	-3	-3	-4	-2	1	3	6	10	11	11	10	9	7	3	0	-2	-2	2.0	11.2			
25-Jan-06			-4	-4	-5	-5	-5	-6	-6	-6	-7	-7	-6	-3	3	5	7	8	4	0	-3	-1	5	6	5	4	-0.8	7.7			
26-Jan-06			3	3	1	-1	-2	-4	-4	-5	-5	-5	-10	-10	-11	-12	-13	-13	-14	-14	-15	-15	-16	-16	-17	-17	-8.8	3.2			
27-Jan-06			-17	-17	-18	-18	-18	-18	-18	-17	-17	-17	-16	-16	-14	-13	-11	-11	-11	-11	-13	-16	-17	-18	-19	-20	-20	-16.2	-10.8		
28-Jan-06			-20	-21	-22	-22	-22	-22	-22	-21	-20	-19	-17	-13	-10	-12	-11	-10	-10	-10	-10	-11	-13	-14	-16	-17	-16.1	-9.5			
29-Jan-06			-18	-19	-20	-20	-20	-21	-21	-21	-22	-21	-17	-7	-3	-1	-1	-1	-2	-4	-7	-9	-9	-8	-8	-8	-12.0	-1.0			
30-Jan-06			-8	-8	-8	-8	-8	-9	-9	-10	-10	-10	-10	-9	-8	-9	-9	-8	-8	-9	-9	-10	-10	-11	-12	-13	-9.3	-7.7			
31-Jan-06			-15	-16	-18	-18	-19	-20	-20	-20	-18	-16	-14	-12	-9	-7	-6	-5	-6	-8	-11	-13	-15	-16	-16	-17	-13.9	-4.9			
Hourly Avg			-9.6	-9.8	-10.1	-10.4	-10.6	-11.1	-11.2	-11.2	-11.2	-11.1	-10.2	-8.2	-6.3	-5.2	-4.4	-4.3	-5.5	-7.1	-8.4	-9.2	-9.4	-9.4	-9.3	-9.5					
Hourly Max			6.2	6.1	5.7	5.7	5.4	5.2	4.9	4.4	4.1	3.8	4.2	4.0	4.4	6.1	10.3	11.0	11.2	10.5	9.0	6.5	5.4	5.9	6.6	6.2					

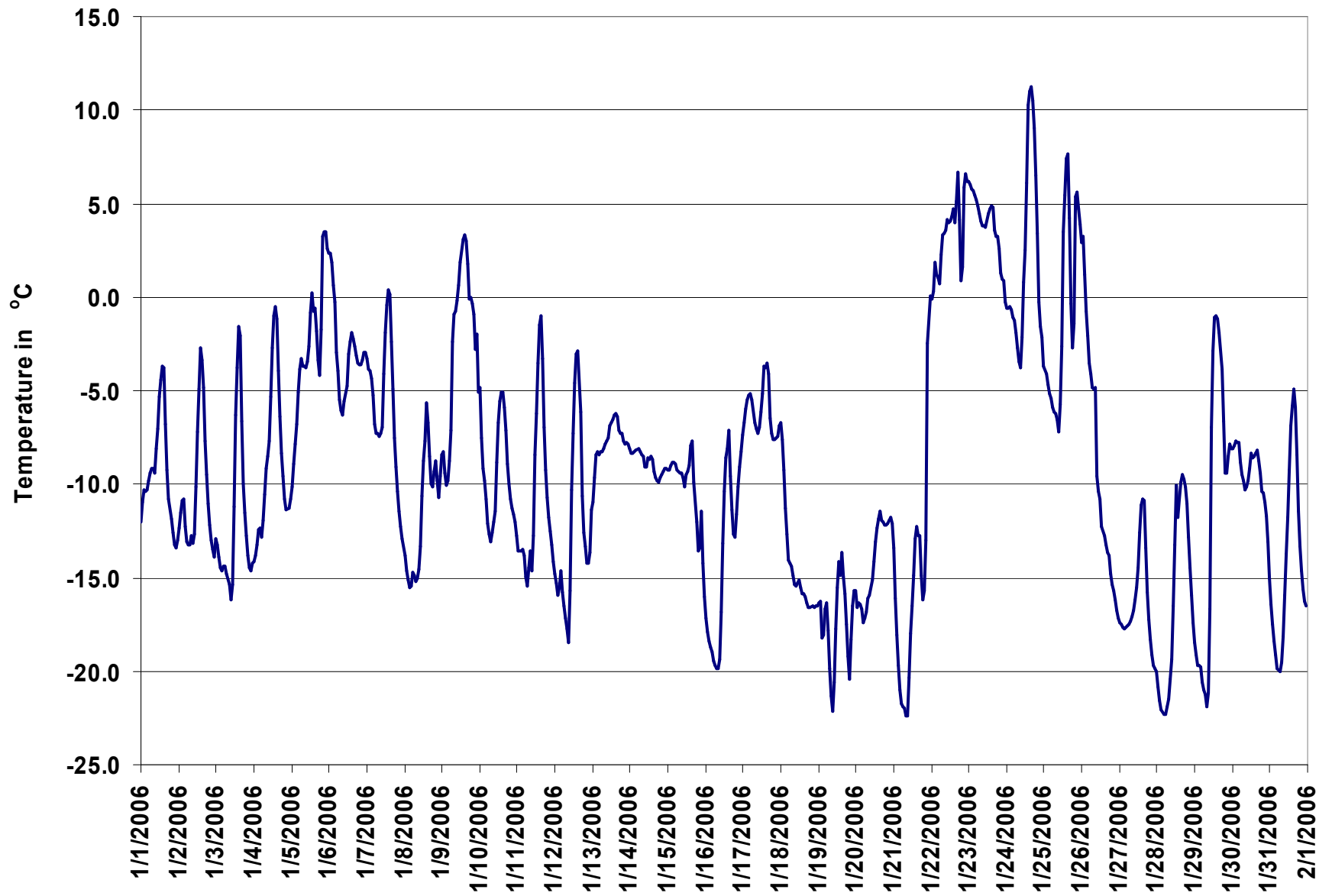


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

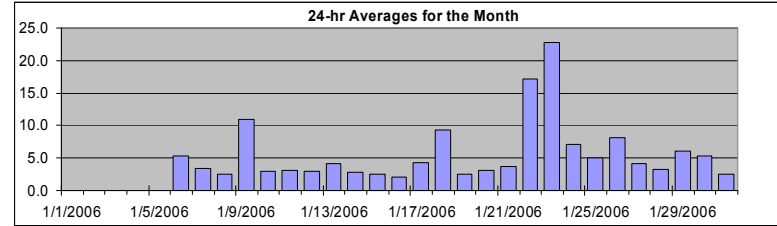
Wind Speed (WSs)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	51.5	km/hr	23-Jan	1:00 2:00
Maximum 24-hr Value:	22.8	km/hr	23-Jan	

Calm Time:	0 hrs	0% calms	Operational Time:	628 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	84.4%				
Percentile	99	95	75	50	25	5	1	AverageS
	39.6	16.9	5.7	3.4	2.5	1.7	1.4	5.8 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
2-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
3-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
4-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
5-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	24	24	20	N	24.5	
6-Jan-06	17	13	16	10	5	3	5	4	3	4	3	2	3	3	2	4	3	4	4	4	4	7	3	3	5.3	16.9	
7-Jan-06	3	4	4	4	3	3	2	2	2	3	3	5	6	7	6	6	3	3	2	2	3	3	3	2	3.4	7.5	
8-Jan-06	2	2	2	1	3	2	2	2	2	3	2	2	3	4	2	3	3	2	3	3	3	3	3	2	2.5	4.4	
9-Jan-06	2	3	3	3	4	6	6	12	11	14	16	22	22	21	20	12	16	11	15	12	13	6	9	5	11.0	22.5	
10-Jan-06	7	4	4	3	3	3	2	2	2	2	3	2	3	3	4	3	4	3	2	2	3	2	2	2	3.0	6.7	
11-Jan-06	2	2	2	3	2	4	3	4	4	4	2	3	5	5	5	4	3	3	3	2	3	2	2	1	3.1	5.3	
12-Jan-06	3	2	2	2	2	2	3	2	3	3	2	2	3	2	4	4	4	3	3	3	4	3	6	4	2.9	6.4	
13-Jan-06	5	7	6	5	5	4	2	4	4	3	3	2	4	5	4	4	5	2	4	4	5	5	4	4	4.2	6.8	
14-Jan-06	3	3	3	2	2	2	4	3	4	2	5	4	4	4	5	3	3	2	3	3	2	2	2	2	2.9	5.0	
15-Jan-06	2	2	2	2	2	3	4	3	3	2	4	4	3	3	2	2	2	2	2	2	2	3	2	2	2.5	3.9	
16-Jan-06	2	2	1	2	1	1	1	1	1	2	2	2	2	3	3	3	2	2	2	1	2	3	5	4	2.1	5.0	
17-Jan-06	5	5	7	5	5	3	7	6	5	6	4	4	3	3	4	3	3	5	3	3	3	2	4	6	4.3	6.9	
18-Jan-06	11	11	11	11	11	11	9	11	11	12	12	11	12	11	11	10	7	7	7	6	7	6	6	5	9.4	11.8	
19-Jan-06	4	2	3	3	3	2	2	3	2	2	2	3	3	4	4	4	2	2	3	2	2	1	2	2	2.6	4.5	
20-Jan-06	2	2	3	2	3	3	3	3	3	3	4	4	4	4	4	3	4	3	3	3	3	2	3	3	3.0	4.1	
21-Jan-06	3	3	2	2	1	2	3	4	3	3	3	3	3	4	3	4	3	3	3	3	3	5	12	11	3.7	11.8	
22-Jan-06	12	15	21	14	14	10	16	30	29	22	28	17	9	8	6	3	15	16	6	5	8	27	41	40	17.1	41.2	
23-Jan-06	44	51	48	50	43	39	37	37	34	25	20	16	15	14	14	11	7	9	9	6	3	5	3	4	22.8	51.5	
24-Jan-06	3	4	5	6	4	4	2	2	3	3	3	3	3	5	24	21	20	16	12	12	5	3	2	3	7.0	24.5	
25-Jan-06	2	3	3	3	3	3	2	3	3	2	3	2	3	4	4	4	4	3	4	7	11	12	21	13	5.0	20.6	
26-Jan-06	15	17	9	7	6	5	5	5	4	7	10	9	9	10	9	10	8	7	8	8	7	8	7	8	8.1	16.9	
27-Jan-06	8	6	6	5	5	5	4	4	3	5	5	5	4	4	4	4	4	3	2	3	2	3	3	3	4.2	8.1	
28-Jan-06	3	1	2	1	2	2	2	2	2	2	3	2	5	9	5	5	4	5	5	4	3	3	2	3	3.3	9.5	
29-Jan-06	2	2	2	3	3	3	3	4	3	5	4	9	13	16	14	10	6	4	4	5	7	8	8	9	6.1	15.7	
30-Jan-06	10	11	11	9	5	6	6	4	4	4	5	6	6	7	5	3	2	2	3	4	4	4	4	3	5.4	10.8	
31-Jan-06	3	2	2	2	2	2	2	2	2	2	2	2	3	2	5	4	4	3	2	2	3	2	2	2	2.5	4.6	
1-hr Average	6.7	6.9	6.9	6.1	5.5	5.1	5.3	6.2	5.7	5.5	5.8	5.7	5.8	6.4	6.7	5.7	5.4	4.8	4.4	4.3	4.9	5.7	6.8	6.1			
Hourly Max	44.5	51.5	47.6	49.6	42.9	38.9	37.3	37.1	33.6	25.2	27.7	22.1	22.5	21.4	24.5	21.4	19.8	16.2	15.4	12.3	19.3	27.0	41.2	39.9			

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

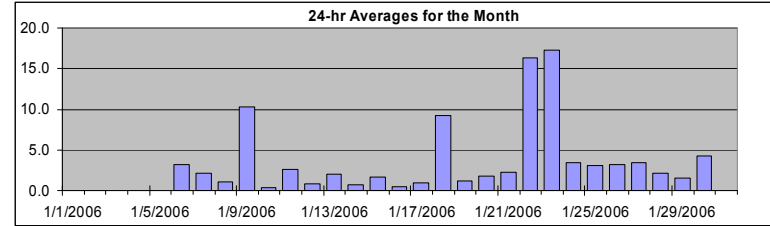
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	51.3	km/hr	23-Jan	1:00 2:00
Maximum 24-hr Value:	17.3	km/hr	23-Jan	



Calm Time:	58 hrs	8% calms	Operational Time:	570 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	84.4%				
Percentile	99	95	75	50	25	5	1	AverageV
	39.0	19.7	6.0	3.0	1.8	1.0	0.8	4.2 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00 0:00		
1-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
2-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
3-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
4-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0
5-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	24	24	20	N	24.4	
6-Jan-06	16	13	16	10	5	2	3	calm	calm	2	2	1	1	2	calm	3	3	4	4	3	2	7	3	3	3.3	16.3	
7-Jan-06	2	4	4	2	calm	2	calm	calm	1	3	3	4	5	7	6	6	3	2	2	calm	1	2	1	1	2.1	7.3	
8-Jan-06	1	calm	1	1	3	calm	1	1	2	3	2	2	3	3	1	1	2	1	1	2	2	calm	1	2	1.0	3.1	
9-Jan-06	1	2	3	1	3	5	5	12	11	14	15	22	22	21	20	12	16	11	15	12	13	3	8	1	10.3	22.4	
10-Jan-06	1	2	4	1	1	1	2	calm	calm	1	calm	1	2	3	3	3	4	2	1	calm	2	2	1	calm	0.3	3.8	
11-Jan-06	2	1	2	3	2	4	2	4	4	4	1	3	4	5	5	3	2	2	2	2	2	2	1	1	2.6	5.0	
12-Jan-06	2	1	1	calm	2	2	2	2	2	2	1	2	calm	calm	3	4	3	2	3	3	3	1	6	3	0.9	6.3	
13-Jan-06	5	7	6	4	5	4	2	3	4	2	calm	calm	4	4	3	3	3	2	3	4	5	4	3	3	2.0	6.7	
14-Jan-06	2	2	1	1	1	calm	2	1	3	1	4	4	3	3	5	3	2	calm	calm	2	2	calm	calm	1	0.8	4.8	
15-Jan-06	2	2	1	1	2	3	3	3	3	2	3	4	3	2	1	1	1	1	1	1	2	3	1	1	1.6	3.8	
16-Jan-06	1	calm	1	calm	calm	1	1	1	1	1	1	1	1	2	3	2	1	calm	calm	1	calm	3	5	4	0.5	4.8	
17-Jan-06	4	4	6	5	5	1	7	6	5	5	3	3	3	2	4	3	1	1	2	1	1	1	1	6	0.9	6.8	
18-Jan-06	11	10	11	10	11	11	9	11	10	12	11	10	11	11	10	7	7	7	6	6	6	6	6	5	9.3	11.5	
19-Jan-06	4	calm	2	1	2	2	2	3	calm	1	2	2	3	3	4	4	2	1	2	1	1	1	2	calm	1.2	4.4	
20-Jan-06	calm	1	2	calm	calm	1	2	2	3	3	3	3	3	3	3	3	3	3	2	1	calm	calm	1	1	1.8	3.5	
21-Jan-06	2	2	1	1	calm	1	2	1	2	2	3	2	2	3	2	4	1	calm	3	2	3	5	12	11	2.3	11.5	
22-Jan-06	11	15	21	14	14	9	16	30	29	21	27	16	9	7	5	3	15	16	4	3	8	27	41	40	16.3	41.0	
23-Jan-06	44	51	47	49	39	39	37	37	33	25	20	16	15	14	14	11	7	9	9	6	2	2	2	3	17.3	51.3	
24-Jan-06	3	4	5	5	4	3	1	1	3	2	2	3	1	3	24	21	20	16	12	12	2	2	calm	2	3.4	24.2	
25-Jan-06	2	2	calm	2	2	2	1	3	2	calm	2	calm	1	3	4	3	3	calm	4	7	11	10	20	13	3.1	20.5	
26-Jan-06	15	17	9	7	6	3	2	5	1	7	9	8	8	9	9	10	8	7	8	7	6	7	7	7	3.1	16.6	
27-Jan-06	8	6	6	5	5	4	4	4	3	5	5	5	3	3	4	3	3	3	2	2	1	1	2	3	3.4	7.8	
28-Jan-06	3	calm	1	1	1	2	2	1	2	2	2	1	calm	9	4	5	4	5	5	4	2	1	calm	2	2.2	9.1	
29-Jan-06	1	1	calm	3	2	calm	2	2	2	4	3	9	12	16	14	10	6	2	3	4	7	8	8	9	1.5	15.6	
30-Jan-06	10	11	11	9	5	6	6	4	4	4	5	5	5	7	4	3	1	2	3	4	4	4	4	3	4.2	10.7	
31-Jan-06	2	2	calm	calm	1	calm	calm	calm	calm	calm	1	2	3	2	4	4	4	2	1	1	1	1	1	1	N	4.5	
1-hr Vector	2.4	N	N	N	N	N	2.6	N	N	1.8	2.0	2.4	2.8	3.1	3.3	2.4	1.6	N	0.8	1.0	1.7	1.9	2.7	2.1			
Hourly Max	44.2	51.3	47.3	49.3	38.6	38.7	37.2	37.0	33.5	25.0	27.4	22.0	22.4	21.3	24.2	21.2	19.7	15.8	15.4	12.2	19.2	26.7	41.0	39.8			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2006 to February 1, 2006

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
	356.6	333.5	269.5	207.4	118.0	37.2	7.2	277 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Jan-06	182	127	147	191	197	174	178	184	174	92	183	193	67	49	98	154	93	134	209	225	207	196	194	208	N	-
2-Jan-06	194	173	75	215	193	213	185	194	180	190	194	202	250	249	244	200	236	127	199	196	33	188	217	328	N	-
3-Jan-06	298	212	189	191	173	191	263	202	193	298	195	204	244	273	30	359	155	137	209	213	204	213	257	228	N	-
4-Jan-06	231	213	202	206	185	189	193	203	197	211	210	224	204	214	49	205	188	165	159	147	157	79	284	75	N	-
5-Jan-06	53	168	211	47	64	71	70	72	76	54	28	357	336	281	263	211	177	164	153	250	258	249	250	247	N	-
6-Jan-06	258	271	251	254	286	19	286	171	245	123	71	164	165	352	292	19	357	328	332	252	222	211	250	289	263	W
7-Jan-06	217	183	195	34	326	197	201	72	226	224	304	266	284	263	263	257	298	226	226	39	220	219	297	298	254	WSW
8-Jan-06	198	262	229	195	206	113	193	232	196	196	187	221	217	203	330	72	118	206	64	84	360	113	208	67	179	S
9-Jan-06	113	78	177	240	306	288	235	227	247	252	259	251	249	247	250	258	248	240	237	233	231	242	252	217	246	WSW
10-Jan-06	172	134	63	148	140	56	212	238	114	7	349	236	329	319	307	244	212	175	162	10	84	36	339	292	176	S
11-Jan-06	273	241	213	317	295	217	225	254	236	218	285	294	255	266	276	298	265	223	219	205	237	211	240	195	251	WSW
12-Jan-06	251	231	178	232	210	215	238	209	194	59	215	23	183	264	209	150	126	81	77	71	59	40	65	74	135	SE
13-Jan-06	65	68	78	66	63	59	322	50	54	47	163	4	277	292	285	223	221	166	76	88	47	56	68	88	61	ENE
14-Jan-06	116	62	178	280	70	189	254	257	200	229	274	250	268	343	342	323	345	170	171	22	35	32	55	170	284	WNW
15-Jan-06	258	261	338	151	150	199	188	183	180	207	253	275	283	294	258	323	218	290	260	245	294	282	178	180	241	WSW
16-Jan-06	161	163	187	240	227	205	209	216	201	224	140	54	323	267	39	56	143	73	244	257	5	73	80	74	112	ESE
17-Jan-06	78	77	88	62	50	264	269	253	247	235	233	287	232	325	182	115	100	359	303	287	269	251	307	356	292	WNW
18-Jan-06	333	328	328	331	333	328	310	318	317	317	312	311	324	325	326	308	302	309	310	310	316	318	334	334	321	NW
19-Jan-06	314	319	132	109	101	93	34	33	267	293	311	306	323	278	330	345	50	295	272	256	278	214	238	322	319	NW
20-Jan-06	3	231	327	239	53	99	109	84	63	67	32	47	32	11	19	351	5	57	93	163	18	37	86	212	44	NE
21-Jan-06	221	196	172	206	195	305	253	271	292	290	297	268	271	267	293	329	331	310	76	78	163	187	233	233	251	WSW
22-Jan-06	222	216	235	217	221	225	253	253	250	246	252	248	251	213	179	172	230	245	277	242	281	263	257	256	245	WSW
23-Jan-06	257	255	254	253	316	330	330	329	328	331	342	340	343	360	356	359	333	336	352	10	78	287	1	221	307	NW
24-Jan-06	184	171	177	161	180	179	208	117	272	136	109	96	331	272	312	319	313	312	300	291	275	131	105	95	295	WNW
25-Jan-06	89	73	331	35	349	337	325	37	68	67	52	26	67	63	74	49	23	313	104	263	276	324	334	349	353	N
26-Jan-06	326	309	265	272	287	197	204	259	231	108	128	114	127	131	133	124	118	128	138	138	133	133	136	136	146	SSE
27-Jan-06	116	137	124	138	134	125	148	184	122	117	119	125	94	105	47	65	85	113	81	121	201	58	76	17	115	ESE
28-Jan-06	7	150	91	141	62	39	42	76	272	283	292	346	19	329	1	322	334	331	320	305	330	328	225	236	336	NNW
29-Jan-06	127	100	297	333	281	78	280	297	122	270	72	324	333	328	334	340	359	223	131	147	131	130	129	125	352	N
30-Jan-06	127	129	129	130	118	134	125	135	125	87	80	68	43	37	47	63	114	219	169	164	164	157	150	140	117	ESE
31-Jan-06	119	76	56	87	305	210	6	132	225	9	334	316	294	51	53	61	65	108	90	100	23	59	348	62	52	NE
Hourly Avg	249	245	236	242	305	305	280	276	269	275	286	292	298	304	318	332	297	280	281	253	261	251	262	251		

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, 2006 to February 1, 2006

Summary

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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
	70.7	60.9	42.5	28.4	14.8	5.8	3.8

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

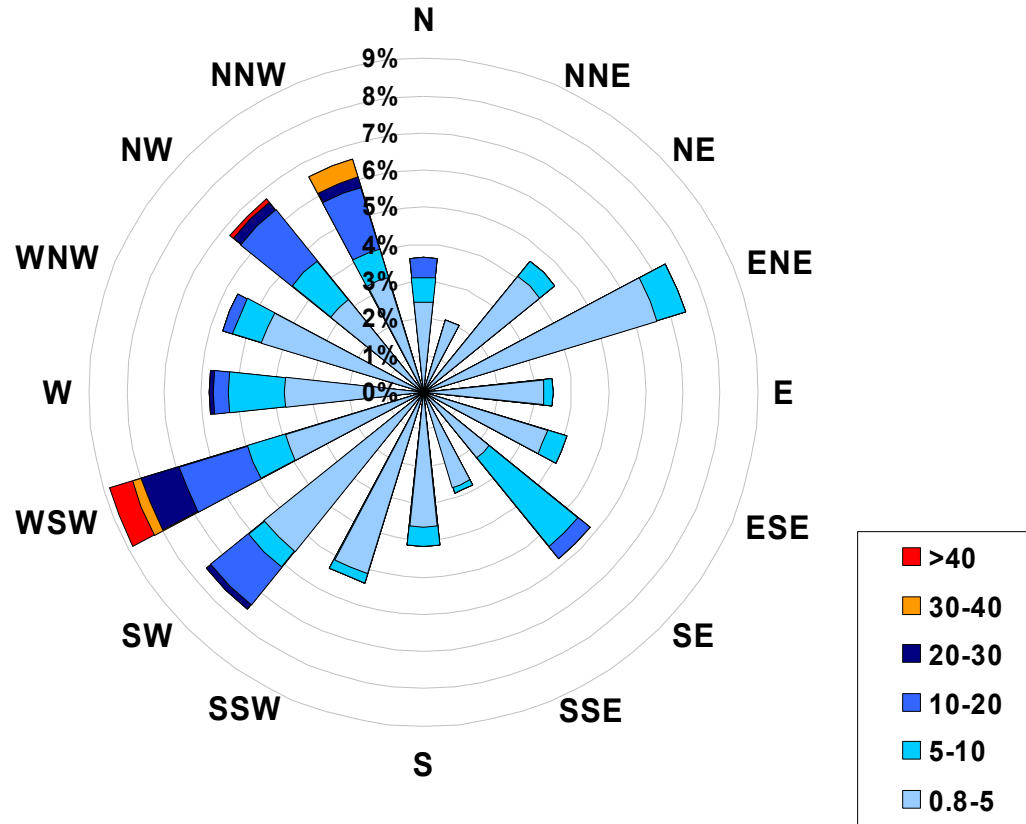
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jan-06	17	59	29	20	12	22	36	24	27	36	35	21	48	39	32	62	51	40	50	65	42	49	48	49	
2-Jan-06	49	47	53	42	45	35	27	13	18	14	17	10	38	20	52	46	55	67	72	70	43	66	42	30	
3-Jan-06	39	31	69	32	56	50	41	43	46	41	17	10	39	46	65	42	48	45	55	45	36	21	31	24	
4-Jan-06	51	28	10	61	30	56	36	21	15	15	37	41	61	25	55	35	21	32	59	54	40	19	52	36	
5-Jan-06	38	39	38	40	12	8	10	14	13	43	41	69	39	29	8	20	34	0	23	34	5	3	4	5	
6-Jan-06	10	9	5	6	17	38	31	34	35	36	39	36	51	20	48	35	23	17	17	25	32	11	20	23	
7-Jan-06	17	10	20	35	51	19	48	47	24	14	26	19	17	8	11	6	24	31	10	26	32	23	22	34	
8-Jan-06	57	31	28	29	16	48	33	53	50	12	41	28	15	49	48	34	39	58	36	49	51	82	68	55	
9-Jan-06	46	28	23	33	34	14	20	9	9	6	6	5	5	6	5	8	4	3	4	5	3	35	25	40	
10-Jan-06	36	49	29	41	46	30	37	61	34	35	55	42	40	25	31	17	9	32	22	63	18	36	29	27	
11-Jan-06	27	29	12	38	29	10	15	11	13	10	30	31	19	18	16	24	13	34	24	13	31	13	33	13	
12-Jan-06	23	41	36	46	40	28	48	43	43	37	24	45	57	70	35	16	13	24	14	14	27	38	6	27	
13-Jan-06	8	8	12	11	9	25	37	49	19	49	50	56	33	20	21	26	35	33	44	23	15	37	45	29	
14-Jan-06	30	57	57	59	50	60	42	47	18	39	19	14	30	49	16	33	36	31	36	31	44	76	59	30	
15-Jan-06	18	22	66	38	24	19	23	27	28	26	23	14	20	29	44	66	39	33	24	14	45	16	39	40	
16-Jan-06	37	49	31	59	28	19	15	22	15	43	37	60	56	52	20	35	15	31	20	37	50	15	11	13	
17-Jan-06	15	20	13	13	18	46	10	13	12	14	33	33	35	46	21	21	65	60	49	58	53	55	41	19	
18-Jan-06	10	10	10	13	11	8	14	14	13	11	12	15	13	12	14	13	15	15	15	16	13	13	11	13	
19-Jan-06	17	45	25	56	59	23	13	12	54	42	24	31	23	28	9	15	37	41	41	46	44	43	25	43	
20-Jan-06	70	60	35	54	67	50	37	44	26	25	27	24	32	29	34	35	27	20	33	42	71	62	67	58	
21-Jan-06	45	40	43	37	47	46	53	83	47	23	29	35	48	61	40	21	47	45	31	54	28	20	6	4	
22-Jan-06	5	3	5	4	4	8	9	6	6	9	7	9	11	9	18	31	10	7	26	45	28	7	5	5	
23-Jan-06	6	4	6	6	15	6	5	5	5	6	8	7	9	14	14	17	11	10	14	16	26	32	39	29	
24-Jan-06	20	17	18	38	29	24	54	35	47	30	62	28	47	45	5	5	4	5	3	22	54	49	30		
25-Jan-06	23	50	70	29	48	41	59	36	56	73	43	60	66	38	30	32	23	42	16	24	5	16	6	14	
26-Jan-06	9	7	7	11	13	61	40	16	28	15	14	15	16	13	16	13	14	15	16	18	16	13	18	18	
27-Jan-06	13	19	17	18	19	18	22	17	23	19	19	20	27	38	35	38	23	29	27	17	60	26	30	20	
28-Jan-06	16	39	39	40	49	36	43	48	32	52	44	53	49	13	23	14	18	14	13	11	55	54	41	45	
29-Jan-06	38	50	29	35	65	37	58	41	64	42	42	10	9	7	9	10	15	49	29	24	8	7	7	7	
30-Jan-06	8	8	7	10	20	14	15	16	18	17	18	20	26	12	23	34	29	16	18	13	14	14	12	19	
31-Jan-06	47	33	61	66	72	64	55	60	53	76	52	29	41	35	13	14	19	42	56	28	55	61	43	64	

Daily Maximum
64.6
72.3
69.3
61.1
69.5
51.4
51.3
81.9
45.5
63.1
38.2
69.7
56.4
76.3
66.2
60.0
65.3
15.7
58.8
71.4
83.5
45.0
38.7
62.3
72.8
60.7
60.4
55.1
64.9
34.2
75.6

Hourly Max	70	60	70	66	72	64	59	83	64	76	62	69	66	70	65	66	65	67	72	70	71	82	68	64
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1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for January 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	444
5	to	10	96
10	to	20	62
20	to	30	14
30	to	40	6
	>	40	6
Total Non-Zero Values			628

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

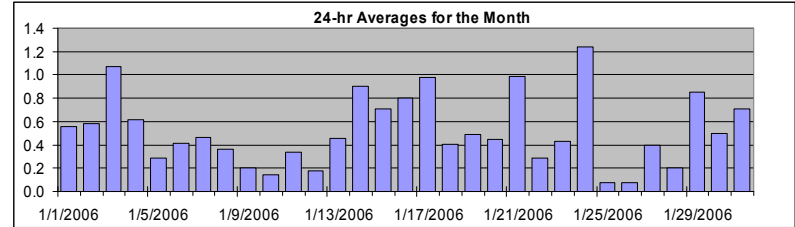
Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	6.7 ppb	24-Jan	21:00	22:00
Maximum 24-hr Average:	1.2 ppb	24-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
	3.1	1.7	0.7	0.4	0.1	0.0	0.0	0.5 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	0	1	0	1	1	0	0	0	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	1	0.6	1.4	
2-Jan-06	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.6	1.3	
3-Jan-06	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1.1	1.5	
4-Jan-06	1	1	1	1	1	1	1	A	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0.6	1.0	
5-Jan-06	0	0	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.6	
6-Jan-06	1	2	0	2	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.2	
7-Jan-06	2	0	0	0	A	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0.5	3.1	
8-Jan-06	0	0	0	A	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0.4	1.2	
9-Jan-06	0	0	A	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
10-Jan-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.9	
11-Jan-06	A	0	1	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	A	0.3	1.6	
12-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5	
13-Jan-06	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	0	1	A	1	1	0.5	0.9	
14-Jan-06	1	0	1	0	0	0	0	0	0	0	1	2	1	1	3	3	1	1	1	1	A	0	0	0	0.9	3.5	
15-Jan-06	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	1	0	2	3	A	1	1	1	1	0.7	2.6	
16-Jan-06	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	1	1	0	A	0	0	0	1	2	0.8	2.4	
17-Jan-06	1	1	1	1	1	0	1	1	0	0	0	1	1	1	1	1	1	A	2	2	2	2	1	1	1.0	2.4	
18-Jan-06	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.9	
19-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	2	1	1	1	1	1	0	1	0	0.5	1.6	
20-Jan-06	1	0	0	0	1	1	1	0	0	1	1	0	1	0	A	0	0	0	0	0	0	0	0	0	0.4	0.8	
21-Jan-06	0	0	0	0	0	0	1	1	1	2	1	2	4	A	2	2	2	1	1	0	0	0	0	0	1.0	3.8	
22-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	2	0	1	0.3	1.8	
23-Jan-06	1	1	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	0.4	1.1	
24-Jan-06	1	1	1	1	1	1	0	0	0	0	A	1	1	2	1	1	0	1	1	0	5	7	1	0	1.2	6.7	
25-Jan-06	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0.1	0.5	
26-Jan-06	0	2	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.5	
27-Jan-06	0	0	0	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	0	1	2	4	0.4	4.1	
28-Jan-06	0	1	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
29-Jan-06	0	0	0	0	A	0	0	0	0	0	1	1	3	2	5	1	1	0	1	1	1	1	1	0	0.9	5.3	
30-Jan-06	1	1	1	A	0	1	0	0	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.0	
31-Jan-06	0	0	A	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	1	1	0	0	0	0	0.7	2.3	
Hourly Avg	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.7	0.8	0.8	1.0	0.7	0.6	0.5	0.5	0.4	0.6	0.6	0.4	0.5			
Hourly Max	2.4	1.8	1.1	2.2	1.4	1.5	1.4	1.4	0.8	1.7	1.5	2.4	3.8	3.1	5.3	3.5	2.3	2.0	2.6	1.9	5.4	6.7	1.8	4.1			

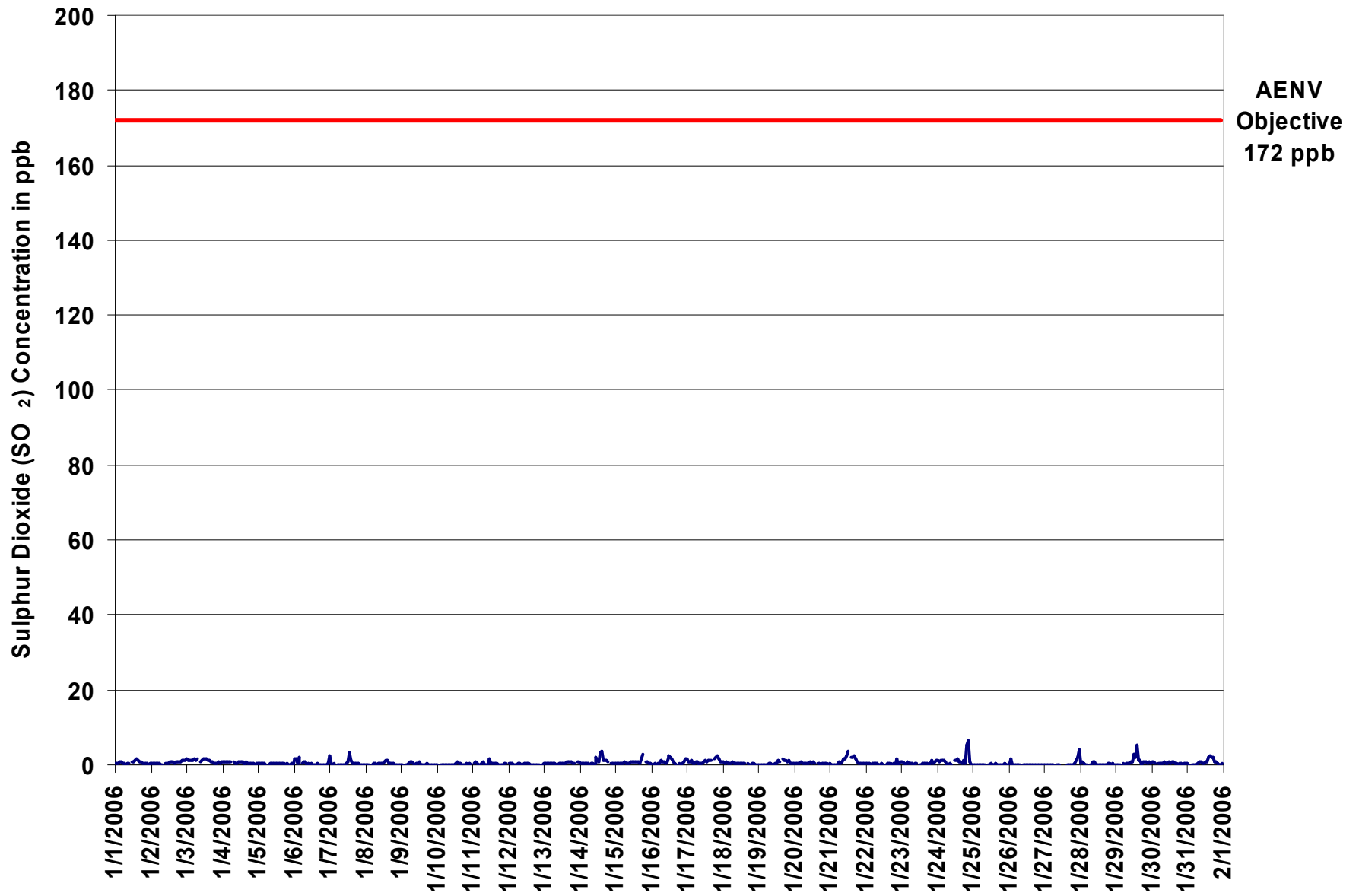


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

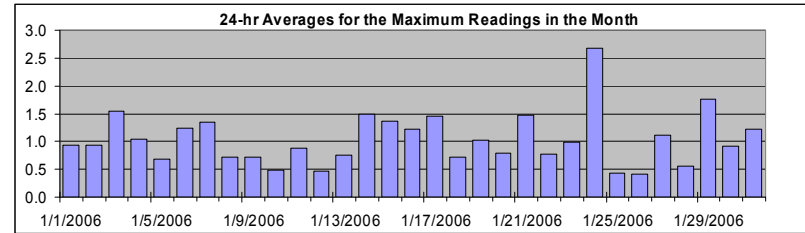
Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	16.3	ppb	24-Jan	21:00 22:00
Maximum 24-hr Value:	2.7	ppb	24-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
	6.1	2.7	1.1	0.7	0.5	0.1	0.0	1.0 ppb	0.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Jan-06	1	1	1	1	1	1	1	0	1	1	A	1	1	2	2	2	1	1	1	0	1	1	0	1	0.9	2.0	
2-Jan-06	1	1	1	1	1	1	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	2	2	2	0.9	1.9	
3-Jan-06	2	2	2	2	2	2	2	2	A	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1.5	2.4	
4-Jan-06	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1.1	2.0	
5-Jan-06	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0.7	1.7	
6-Jan-06	6	6	1	3	1	A	1	2	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	2	1.2	6.2	
7-Jan-06	10	2	0	0	A	0	0	0	0	0	0	0	4	4	2	1	1	2	1	0	1	0	0	1	1.3	9.8	
8-Jan-06	1	0	0	A	0	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	0	0	0	0.7	1.5	
9-Jan-06	0	0	A	0	0	1	2	3	1	0	0	1	2	0	1	1	0	1	0	0	0	0	0	0	0.7	3.3	
10-Jan-06	0	A	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	1	1	0	0.5	1.6	
11-Jan-06	A	1	1	0	0	0	1	1	0	0	1	6	1	1	1	1	1	1	1	0	1	1	1	A	0.9	6.1	
12-Jan-06	1	1	1	0	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0.5	0.9
13-Jan-06	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.3	
14-Jan-06	1	1	1	1	1	1	1	1	0	0	2	3	3	2	6	5	2	1	1	1	A	1	1	1	1.5	5.7	
15-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	6	6	A	2	1	1	1	1.4	6.1	
16-Jan-06	0	0	0	0	1	1	2	1	1	1	2	3	3	2	2	1	1	0	A	1	1	1	2	2	1.2	2.7	
17-Jan-06	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	A	2	3	4	3	1	1	1.5	3.6	
18-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	0.7	1.3	
19-Jan-06	1	0	0	1	0	1	1	1	1	1	0	0	1	2	2	A	3	2	2	1	2	1	1	1	1.0	2.7	
20-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.2	
21-Jan-06	1	0	0	0	0	1	1	1	2	2	2	3	5	A	3	3	3	2	2	1	1	1	1	1	1.5	4.8	
22-Jan-06	1	1	1	1	0	1	1	1	0	0	1	0	A	0	1	1	1	0	0	1	0	4	0	2	0.8	4.3	
23-Jan-06	2	2	1	1	2	2	0	1	0	0	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1.0	2.4	
24-Jan-06	1	1	2	2	1	2	1	1	1	0	A	2	2	2	1	1	1	3	3	1	14	16	3	1	2.7	16.3	
25-Jan-06	0	0	0	0	0	0	0	0	0	1	A	0	1	1	1	1	0	0	0	0	0	1	0	1	0.4	1.4	
26-Jan-06	0	6	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	6.1	
27-Jan-06	0	0	0	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	1	2	6	11	1.1	10.5	
28-Jan-06	1	1	1	0	0	A	0	0	1	1	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0.6	1.2	
29-Jan-06	0	0	1	0	A	1	0	1	1	1	1	1	6	6	8	3	3	1	1	1	1	1	1	1	1.8	8.4	
30-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.9	1.5	
31-Jan-06	1	1	A	0	1	0	0	1	1	1	1	1	1	1	3	3	3	3	2	1	1	0	1	1	1.2	3.0	
Hourly Avg	1.3	1.2	0.8	0.8	0.7	0.8	0.7	0.8	0.7	0.6	0.8	1.3	1.4	1.3	1.7	1.2	1.1	1.1	1.0	0.8	1.3	1.4	0.9	1.2			
Hourly Max	9.8	6.2	1.8	3.4	2.1	1.8	1.9	3.3	1.5	2.4	1.9	6.1	5.6	5.8	8.4	5.0	3.0	6.1	6.1	2.7	14.4	16.3	5.8	10.5			

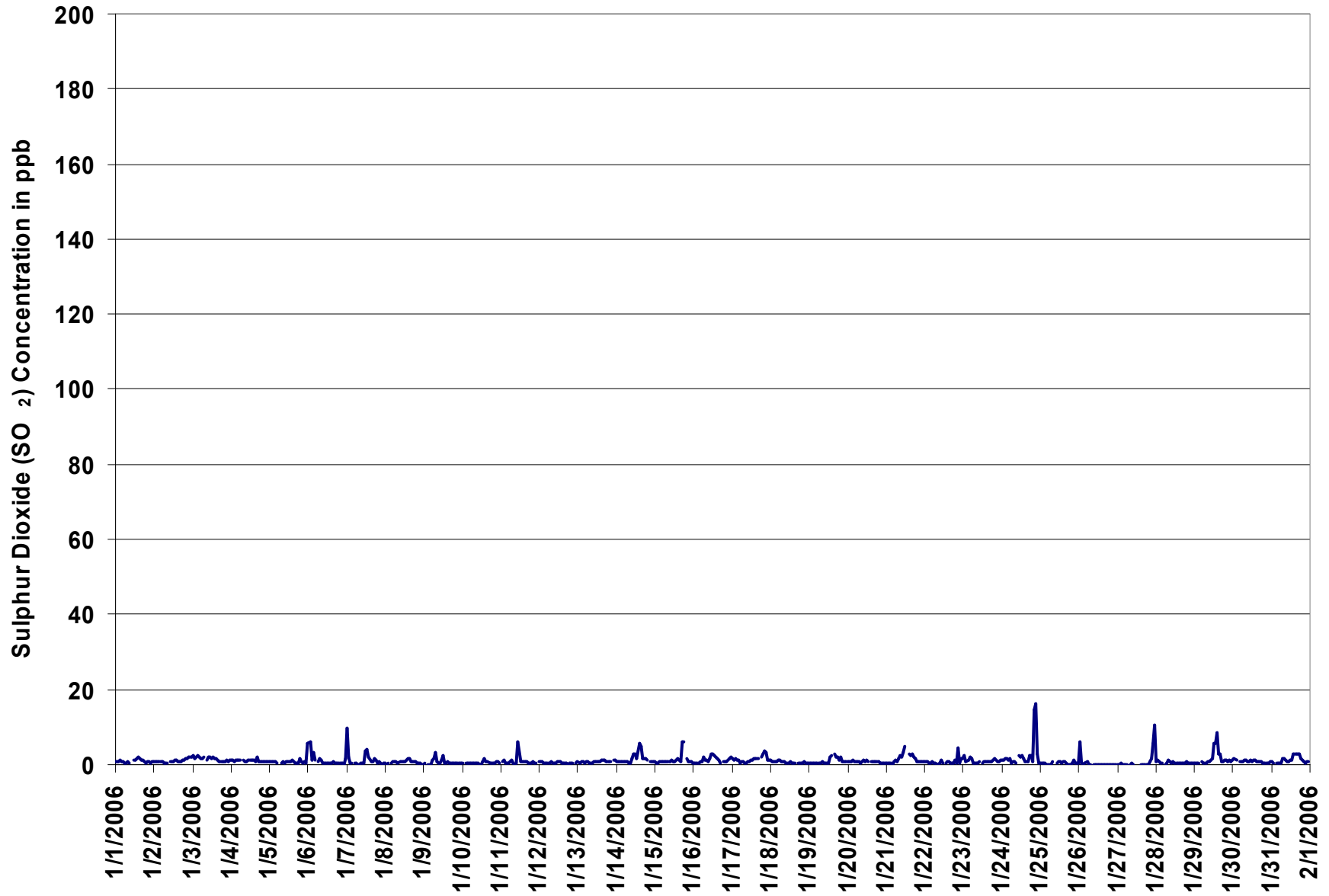
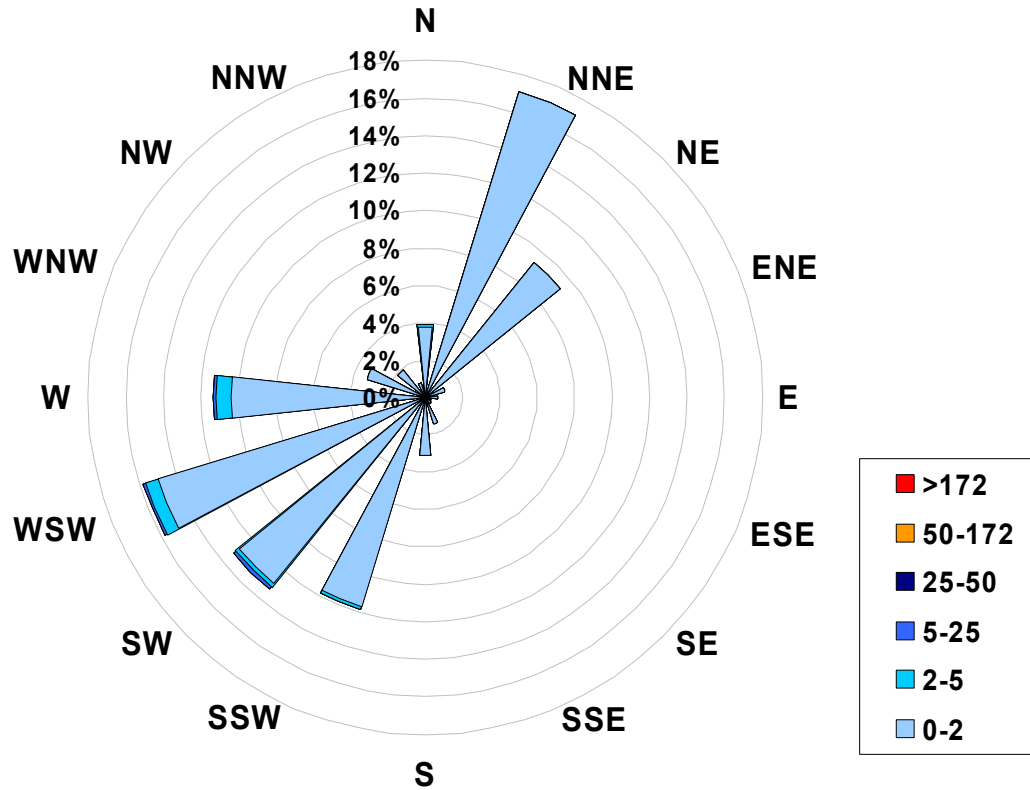


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	689	
2	to 5	16	
5	to 25	3	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			708

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

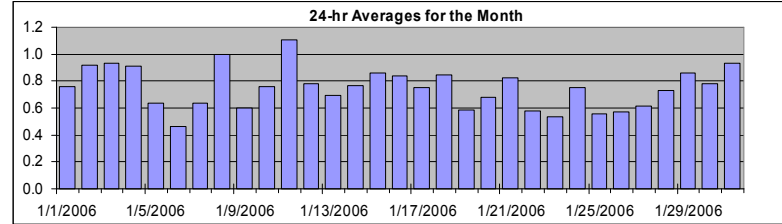
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Maximum 1-hr Average:	2.0	ppb	29-Jan	14:00 15:00
Maximum 24-hr Value:	1.1	ppb	11-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
	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.8 ppb	0.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00	
1-Jan-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
2-Jan-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
3-Jan-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
4-Jan-06	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	0.9	1.4
5-Jan-06	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0.6	0.7
6-Jan-06	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	0.6
7-Jan-06	1	1	0	1	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
8-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
9-Jan-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0.6	0.8
10-Jan-06	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
11-Jan-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	1.4
12-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.0
13-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9
14-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.0
15-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.1
16-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.3
17-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	0.9
18-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.0
19-Jan-06	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
20-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
21-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
22-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.6	0.6
23-Jan-06	0	0	1	1	1	1	1	1	1	1	0	A	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0.5	0.6
24-Jan-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	0.8	1.9
25-Jan-06	1	1	1	0	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
26-Jan-06	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0.6	0.7
27-Jan-06	0	1	1	1	1	1	1	A	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
28-Jan-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
29-Jan-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.9	2.0
30-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
31-Jan-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7		
Hourly Max	1.1	1.1	1.4	1.4	1.4	1.3	1.3	1.1	1.1	1.2	1.1	1.2	1.2	1.2	2.0	1.3	1.2	1.1	1.2	1.1	1.9	1.7	1.2	1.1	1.1	1.1	1.1		

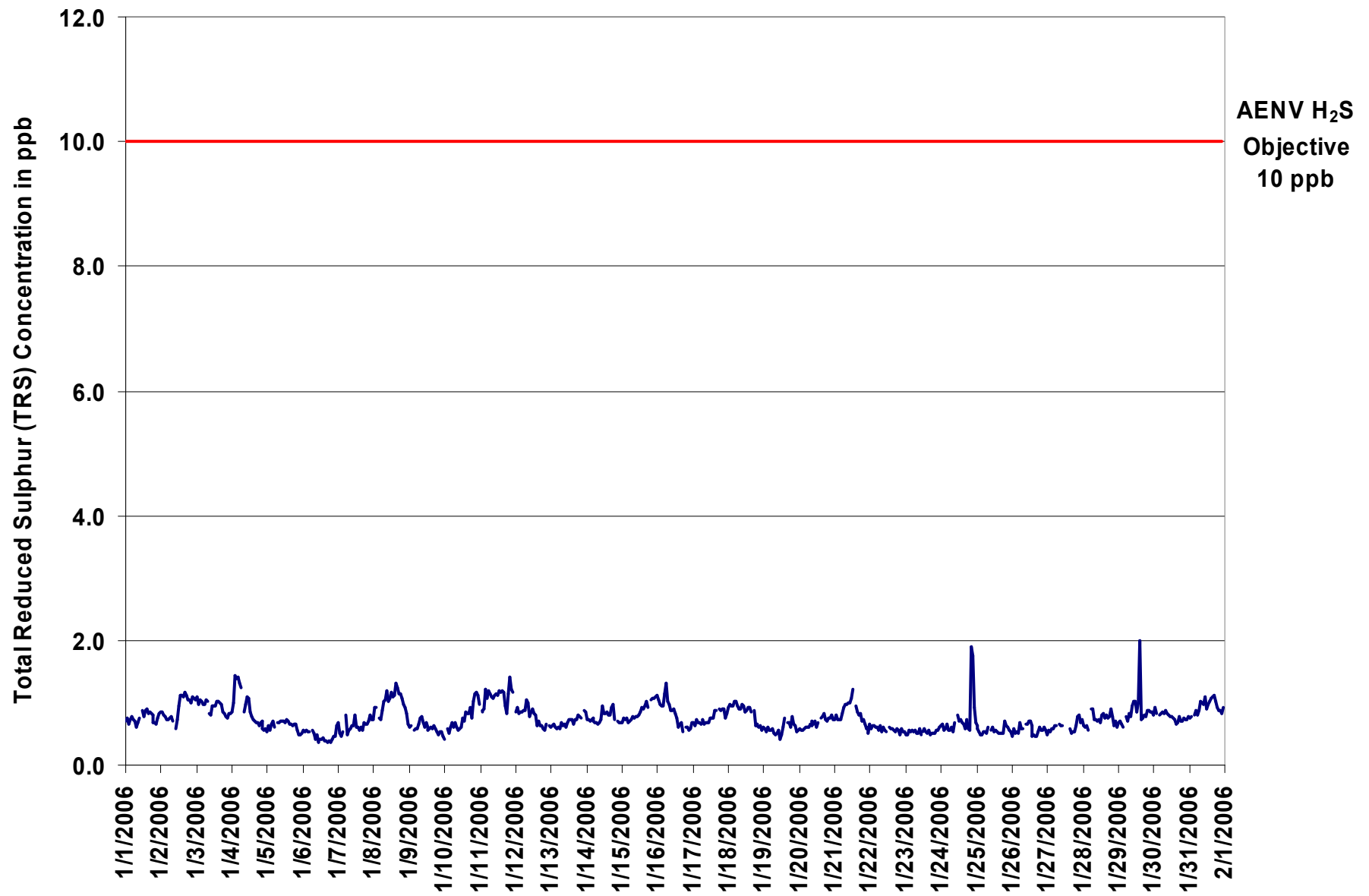


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

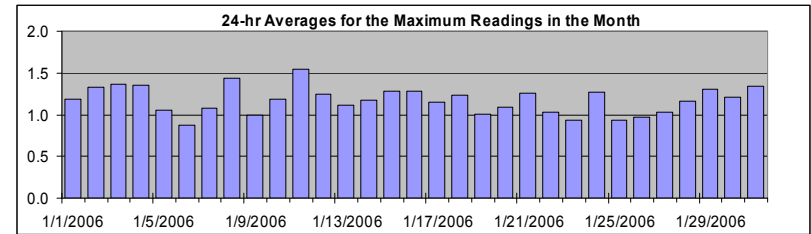
Total Reduced Sulphur (TRS)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	3.8	ppb	29-Jan	14:00 15:00
Maximum 24-hr Value:	1.5	ppb	11-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
	1.9	1.6	1.3	1.1	1.0	0.9	0.8	1.2 ppb	1.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Jan-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.4
2-Jan-06	1	1	1	1	1	1	1	1	1	A	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1.3	1.8
3-Jan-06	2	1	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	1.7
4-Jan-06	1	1	2	2	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	1.9
5-Jan-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.2
6-Jan-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
7-Jan-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.3
8-Jan-06	1	1	1	A	1	1	1	1	1	2	2	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1.4	1.7
9-Jan-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
10-Jan-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.2	1.6
11-Jan-06	A	1	1	1	2	1	2	2	1	2	2	1	1	2	2	2	2	1	1	2	2	2	2	A	1	1.5	1.9
12-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1.2	1.9
13-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	1.3
14-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.2	1.5
15-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	2	1	1	1	2	1.3	1.7
16-Jan-06	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.3	1.9
17-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.1	1.4
18-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.2	1.5
19-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.0	1.2
20-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.1	1.3
21-Jan-06	1	1	1	1	1	1	1	1	1	1	1	2	2	A	2	1	1	1	1	1	1	1	1	1	1	1.3	1.8
22-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
23-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
24-Jan-06	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	1	1	1	1	1	3	3	2	1	1.3	3.1
25-Jan-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
26-Jan-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
27-Jan-06	1	1	1	1	1	1	1	A	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1.0	1.3
28-Jan-06	1	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.5
29-Jan-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1.3	3.8
30-Jan-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.4
31-Jan-06	1	1	A	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	1.7
Hourly Avg	1.1	1.1	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.1	1.2	1.2	1.3	1.2	1.1	1.1		
Hourly Max	1.7	1.6	1.9	1.9	1.9	1.7	1.9	1.7	1.5	1.9	1.5	1.6	1.8	1.5	3.8	1.7	1.7	1.7	1.6	1.7	2.9	3.1	1.6	1.6	1.6		

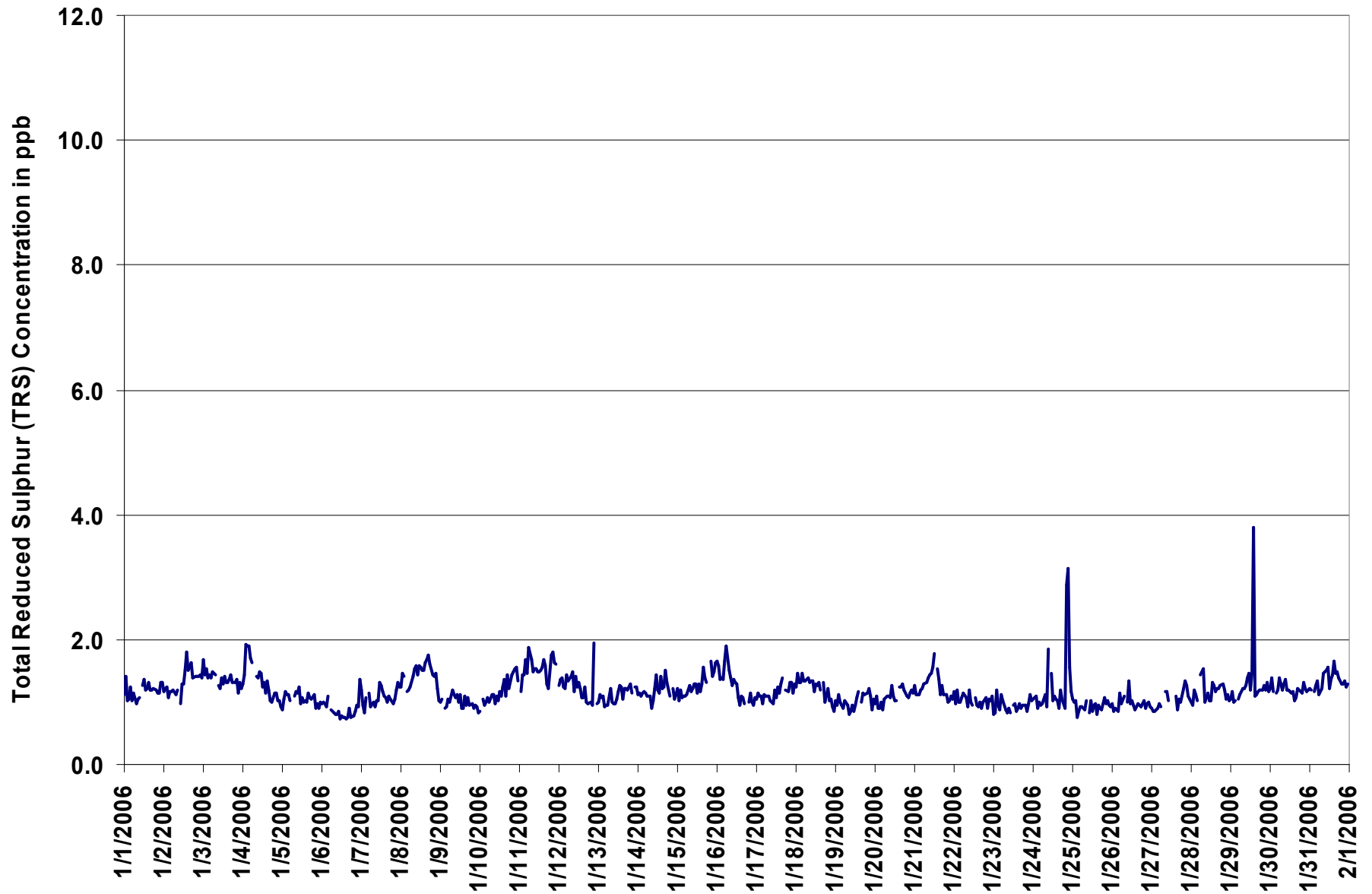
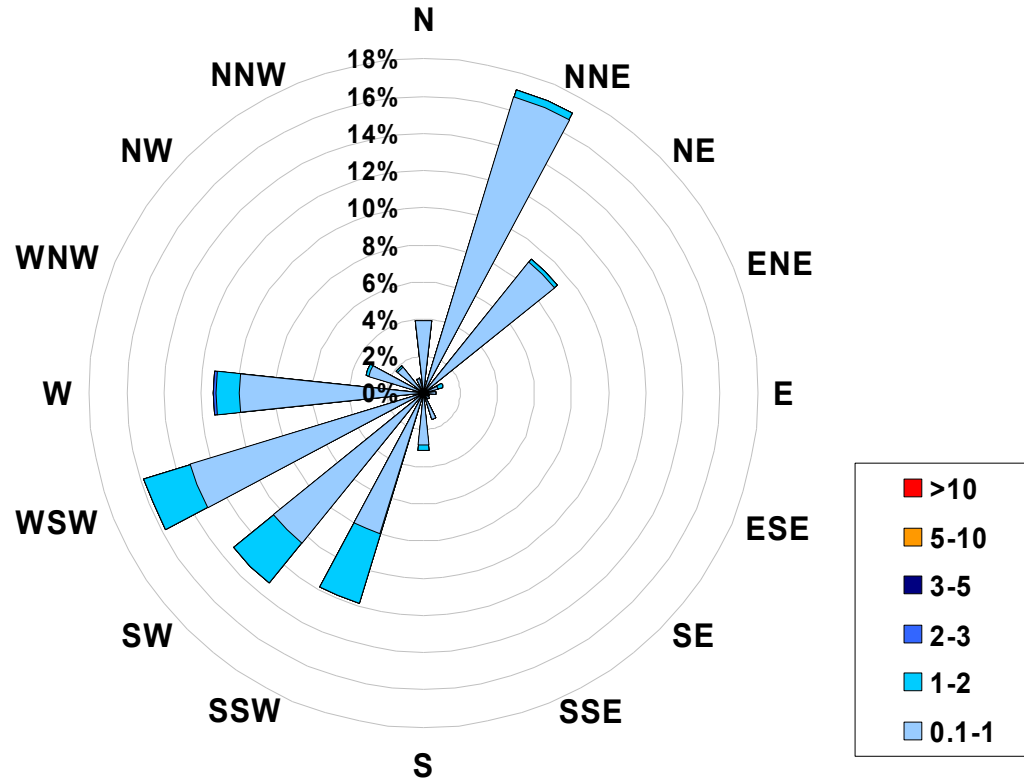


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1		618
1	to 2		89
2	to 3		1
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

Station: Smoky Heights
 Station Owner: PASZA

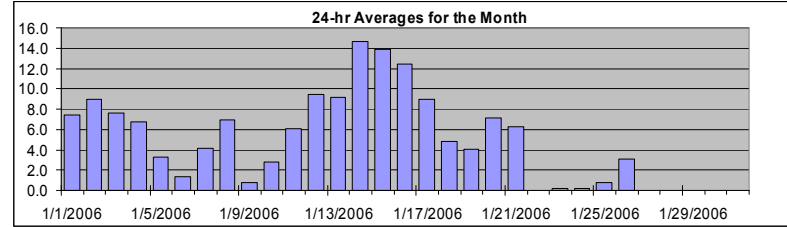
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

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:	44.2	μg/m ³	20-Jan	17:00 18:00
Maximum 24-hr Value:	14.7	μg/m ³	14-Jan	



AIC Time:	0 hrs	Operational Time:	630 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	84.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	31.3	18.1	8.3	4.5	0.5	0.0	0.0	5.8 6 μg/m ³	3.3 μg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	22	30	5	4	4	4	5	7	7	5	5	5	4	6	6	7	6	6	7	6	9	7	4	7	7.4	30.0	
2-Jan-06	6	10	3	4	5	5	5	4	6	6	7	5	9	11	15	15	15	14	14	13	12	12	11	9	9.0	14.8	
3-Jan-06	8	7	7	7	11	10	9	9	7	5	8	8	8	9	11	12	9	8	4	5	6	4	4	6	7.6	11.7	
4-Jan-06	7	7	11	12	11	8	8	10	7	6	6	8	4	5	5	6	5	4	3	4	4	9	3	9	6.8	11.6	
5-Jan-06	3	16	5	0	0	1	2	1	0	14	10	11	0	2	3	2	1	1	2	4	0	0	0	0	3.2	15.6	
6-Jan-06	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	2	5	4	8	6	1	1	1.4	8.0	
7-Jan-06	2	2	3	5	6	5	4	4	2	3	4	3	2	3	3	4	4	3	8	6	6	3	8	7	4.2	8.1	
8-Jan-06	24	1	6	7	7	5	4	5	4	6	8	6	6	10	10	8	6	8	11	11	6	3	1	4	6.9	24.3	
9-Jan-06	1	2	1	1	1	1	3	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	3.0	
10-Jan-06	0	0	0	0	0	0	0	0	1	2	2	3	1	2	5	4	4	4	4	7	8	7	7	6	2.8	8.3	
11-Jan-06	4	5	6	6	5	5	8	6	8	9	10	6	5	9	8	7	7	6	5	2	2	5	6	6	6.0	9.7	
12-Jan-06	7	9	7	7	8	8	9	10	9	8	7	9	8	4	4	4	3	3	3	2	31	9	30	28	9.4	30.7	
13-Jan-06	2	1	0	1	2	5	6	6	7	7	8	10	12	20	13	7	17	25	38	2	8	10	7	7	9.2	37.7	
14-Jan-06	7	33	18	24	14	10	10	10	11	12	18	17	14	13	14	18	19	22	16	12	9	11	9	9	14.7	33.0	
15-Jan-06	10	10	12	10	9	8	7	11	10	12	9	10	16	21	21	21	19	16	20	21	13	20	10	16	13.9	21.5	
16-Jan-06	43	5	10	11	11	12	14	13	11	12	13	9	4	5	9	11	36	19	5	15	11	8	7	3	12.5	43.1	
17-Jan-06	0	5	7	4	5	3	5	5	6	6	7	7	6	6	10	9	10	11	14	19	12	17	19	20	9.0	20.4	
18-Jan-06	16	11	4	3	4	3	2	3	7	11	0	1	0	0	11	2	32	6	1	0	0	0	0	0	4.9	31.5	
19-Jan-06	0	0	0	1	0	1	1	2	1	3	3	2	4	2	3	3	3	3	3	8	11	36	5	2	4.0	36.3	
20-Jan-06	5	5	2	3	2	3	2	3	3	2	4	4	3	4	7	7	9	44	16	9	9	8	8	9	7.2	44.2	
21-Jan-06	8	7	7	5	6	8	8	8	7	7	8	11	17	13	11	8	7	4	2	0	0	0	0	0	6.3	17.3	
22-Jan-06	0	D	0	0	D	0	0	0	0	0	0	0	0	0	D	D	D	0	0	1	0	0	0	0	0.0	0.6	
23-Jan-06	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0.2	1.2	
24-Jan-06	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.2	1.4	
25-Jan-06	1	D	D	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	4	5	4	0.8	4.9	
26-Jan-06	0	0	0	0	0	0	0	0	2	4	21	7	3	4	10	5	3	3	3	2	2	2	1	0	3.0	20.6	
27-Jan-06	1	0	0	0	0	0	0	0	30	0	0	0	1	C	C	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	30.1	
28-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
29-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
30-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
31-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
Hourly Avg	6.7	6.6	4.3	4.2	4.3	3.9	4.2	4.4	5.5	5.6	5.9	5.3	4.8	5.7	7.2	6.5	8.8	8.2	7.0	5.9	6.4	7.0	5.7	5.8			
Hourly Max	43.1	33.0	17.7	23.9	13.8	12.0	14.3	13.1	30.1	13.7	20.6	16.7	17.3	21.4	21.4	21.5	36.5	44.2	37.7	20.7	30.7	36.3	30.3	27.6			

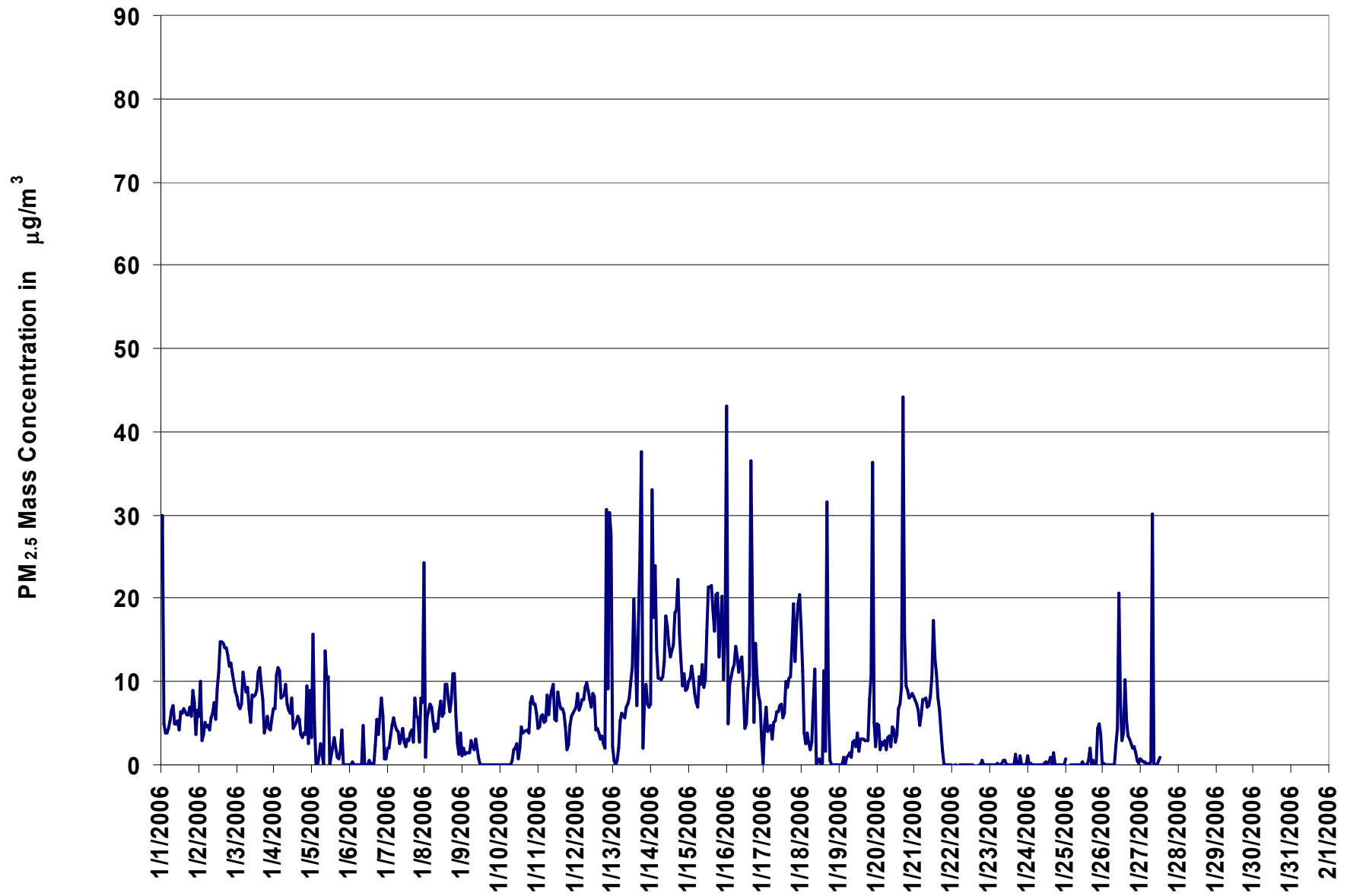


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

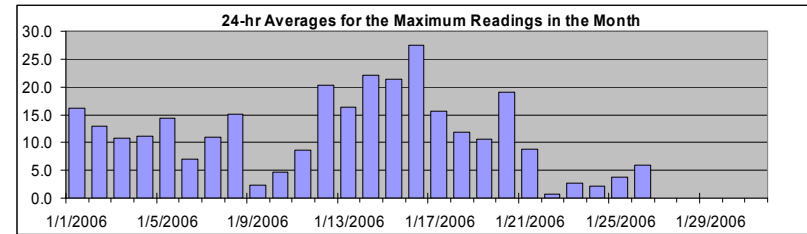
Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	158.7	μg/m ³	8-Jan	0:00 1:00
Maximum 24-hr Value:	27.5	μg/m ³	16-Jan	

AIC Time:	0 hrs	Operational Time:	630 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	84.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	88.9	38.8	12.5	7.6	3.4	0.3	0.0	11.7	12 μg/m ³	8.9 μg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	53	85	13	10	6	6	7	8	10	7	6	7	7	8	9	8	8	9	30	28	15	17	8	22	16.2	84.6	
2-Jan-06	18	37	5	5	8	7	8	6	8	10	10	8	13	13	18	17	17	15	16	14	14	15	14	11	12.9	37.2	
3-Jan-06	12	10	10	10	17	15	12	12	8	8	19	10	11	11	14	14	12	11	7	7	9	6	7	8	10.8	18.9	
4-Jan-06	10	10	12	14	15	10	10	12	9	8	9	10	8	6	7	8	8	6	5	7	7	9	52	10	13	11.1	51.7
5-Jan-06	8	68	64	1	2	5	5	6	13	53	29	24	13	8	7	6	4	5	3	10	7	1	2	1	14.5	68.2	
6-Jan-06	1	0	2	2	1	0	0	1	1	40	6	1	1	3	2	2	1	8	10	12	40	27	2	3	7.0	40.3	
7-Jan-06	4	3	5	6	7	6	6	5	4	5	7	6	4	5	5	6	6	5	25	12	16	5	18	91	11.0	91.3	
8-Jan-06	159	4	9	10	10	8	6	7	6	9	10	8	7	13	13	10	10	11	15	14	8	5	6	6	15.1	158.7	
9-Jan-06	4	6	3	5	4	5	5	5	4	5	4	0	0	0	0	1	1	1	0	0	1	1	1	2	2.4	5.7	
10-Jan-06	0	2	1	1	0	2	2	0	4	5	5	5	2	5	6	6	5	6	7	10	11	9	10	8	4.7	10.6	
11-Jan-06	7	6	9	8	8	8	13	9	10	13	14	7	8	11	10	8	8	8	8	5	4	7	8	9	8.6	13.5	
12-Jan-06	9	11	8	9	10	11	13	13	11	10	9	10	11	10	7	7	5	7	5	5	96	37	91	83	20.3	95.7	
13-Jan-06	9	8	0	3	4	8	9	8	11	12	14	14	17	30	30	13	31	54	50	14	14	16	11	12	16.3	54.0	
14-Jan-06	11	83	35	42	18	12	13	12	12	14	23	22	17	15	17	21	20	38	29	20	15	16	11	11	22.1	83.4	
15-Jan-06	12	12	14	13	11	9	9	14	12	15	11	12	19	25	26	23	22	18	36	39	32	55	12	59	21.3	59.5	
16-Jan-06	73	10	12	16	15	14	16	15	13	16	18	16	8	7	20	21	100	83	10	69	39	15	31	21	27.5	100.0	
17-Jan-06	3	16	24	10	11	5	7	8	8	8	9	9	8	10	12	11	13	20	19	36	15	26	40	45	15.6	45.1	
18-Jan-06	27	19	7	7	5	5	3	12	23	27	1	3	2	5	25	6	68	24	9	2	1	1	2	2	11.9	68.1	
19-Jan-06	2	0	4	4	2	3	3	3	2	5	7	5	6	4	4	4	6	6	35	37	76	15	13	10.6	76.3		
20-Jan-06	9	15	12	6	6	6	4	4	6	4	8	6	7	6	8	9	13	134	19	15	9	10	10	19.1	134.5		
21-Jan-06	10	9	9	6	9	10	10	10	9	11	11	15	23	18	13	10	10	7	4	2	2	0	0	1	8.8	23.4	
22-Jan-06	0	D	0	0	D	0	1	1	1	0	0	0	0	0	D	D	D	0	3	6	1	0	0	2	0.7	5.7	
23-Jan-06	3	1	2	3	3	2	1	3	2	4	2	4	0	1	3	3	4	2	3	7	5	4	2	2	2.7	7.1	
24-Jan-06	5	1	4	1	1	0	0	0	2	3	1	2	3	2	5	3	2	7	3	0	0	0	3	2	2.2	7.0	
25-Jan-06	8	D	D	5	1	1	4	2	2	4	3	2	2	2	3	3	7	2	3	1	4	11	8	6	3.7	10.6	
26-Jan-06	6	2	1	0	0	0	1	2	6	6	32	14	4	7	24	9	5	5	4	4	4	3	3	2	6.0	32.2	
27-Jan-06	2	4	2	2	1	2	2	2	68	3	1	2	4	C	C	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	67.6	
28-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
29-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
30-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
31-Jan-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N	0.0	
Hourly Avg	17.2	16.9	10.2	7.4	6.7	6.0	6.3	6.6	9.9	11.3	10.1	8.4	7.6	8.6	11.5	9.3	15.4	19.0	17.1	14.5	15.8	15.9	12.6	17.0			
Hourly Max	158.7	84.6	64.4	42.4	17.9	15.1	16.5	14.9	67.6	53.4	32.2	24.4	23.4	30.3	29.6	23.2	100.0	134.5	133.6	68.9	95.7	76.3	90.6	91.3			

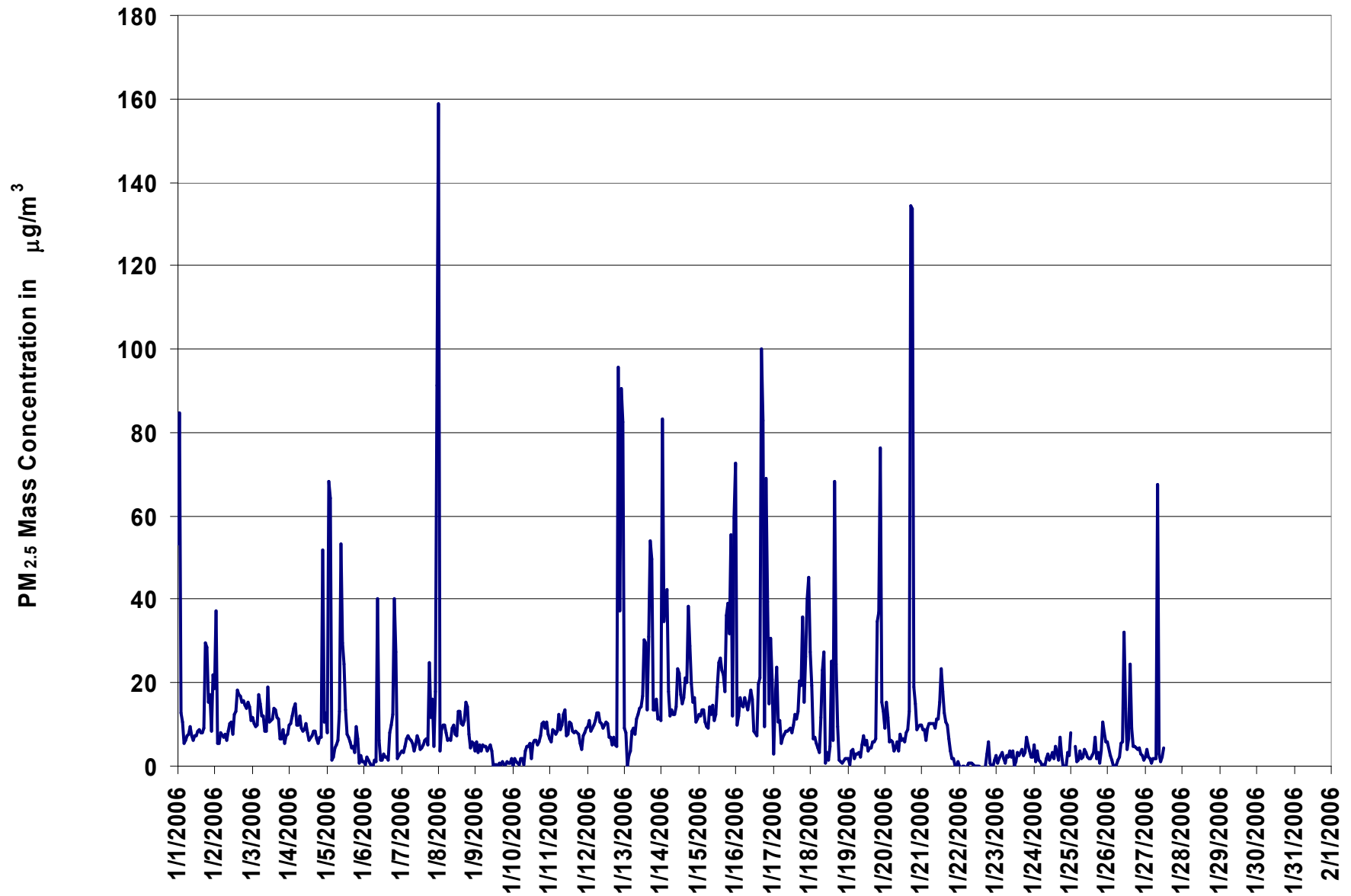
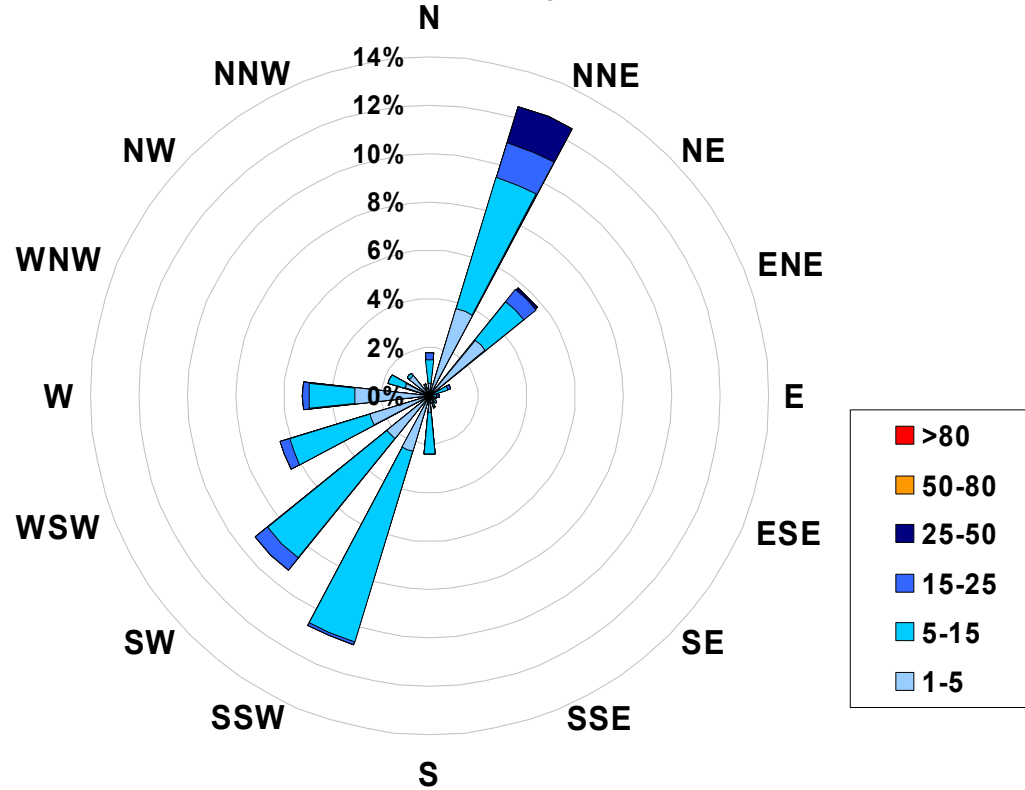


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 2006



Calms:	0%
---------------	-----------

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		340
5	to 15		245
15	to 25		32
25	to 50		13
50	to 80		0
	> 80		0
Total Non-Zero Values			630

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

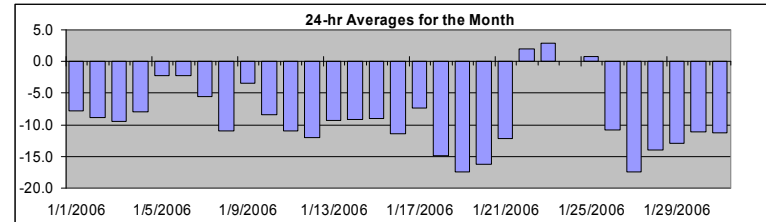
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	7.3	°C	25-Jan	15:00 16:00
Maximum 24-hr Value:	2.9	°C	23-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
	5.2	3.0	-4.7	-9.1	-12.8	-18.4	-19.4	-8.7 °C	-9.1 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00	8:00	9:00	10:00	11:00	12:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00	22:00
1-Jan-06	-10	-10	-9	-8	-8	-8	-8	-8	-8	-8	-8	-7	-6	-4	-4	-3	-5	-8	-9	-10	-10	-10	-8	-8	-7.8	-3.5		
2-Jan-06	-8	-8	-8	-8	-9	-9	-10	-10	-10	-11	-11	-11	-8	-7	-8	-7	-7	-8	-9	-9	-10	-10	-10	-10	-8.9	-7.3		
3-Jan-06	-10	-10	-10	-10	-10	-11	-11	-11	-12	-12	-12	-11	-8	-6	-4	-5	-5	-7	-8	-9	-10	-9	-10	-11	-11	-9.4	-4.4	
4-Jan-06	-10	-11	-11	-11	-11	-12	-12	-11	-10	-9	-9	-7	-5	-4	-3	-3	-5	-6	-6	-7	-8	-8	-9	-6	-8.0	-3.1		
5-Jan-06	-6	-6	-5	-4	-3	-4	-4	-4	-4	-3	-3	-3	-2	-1	0	-2	-2	-3	-4	-3	2	4	3	3	-2.2	3.7		
6-Jan-06	1	1	0	-1	-1	0	0	-3	-4	-4	-3	-2	0	0	-2	-2	-2	-3	-3	-4	-4	-5	-4	-5	-2.2	0.9		
7-Jan-06	-4	-5	-5	-5	-4	-5	-6	-6	-5	-5	-4	-2	-1	0	-1	-3	-6	-9	-9	-10	-11	-11	-11	-11	-5.5	-0.2		
8-Jan-06	-13	-15	-15	-14	-14	-14	-13	-13	-14	-13	-12	-11	-10	-8	-6	-7	-9	-9	-9	-8	-8	-9	-10	-8	-10.9	-6.5		
9-Jan-06	-6	-5	-5	-6	-7	-6	-4	-4	-5	-5	-3	-1	1	2	2	2	0	-3	-4	-4	-4	-5	-6	-7	-3.4	2.3		
10-Jan-06	-6	-7	-8	-10	-10	-9	-10	-10	-10	-9	-10	-7	-6	-6	-5	-5	-7	-8	-9	-10	-9	-9	-10	-11	-8.4	-4.7		
11-Jan-06	-12	-12	-11	-12	-11	-13	-12	-13	-13	-14	-12	-10	-9	-8	-7	-7	-8	-10	-11	-11	-12	-11	-12	-13	-11.0	-7.0		
12-Jan-06	-13	-14	-15	-14	-14	-15	-15	-15	-15	-15	-14	-12	-10	-7	-7	-7	-8	-11	-13	-12	-12	-12	-11	-11	-12.1	-6.7		
13-Jan-06	-10	-10	-11	-11	-11	-11	-11	-10	-10	-10	-10	-9	-9	-8	-8	-7	-8	-8	-8	-8	-8	-9	-9	-8	-9.3	-7.5		
14-Jan-06	-8	-8	-9	-10	-10	-10	-10	-10	-11	-10	-9	-9	-9	-9	-8	-8	-8	-8	-9	-9	-9	-9	-9	-9	-9.1	-8.1		
15-Jan-06	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-8	-8	-9	-9	-9	-9	-9	-9	-9	-10	-12	-9.1	-8.1		
16-Jan-06	-14	-17	-16	-13	-12	-12	-13	-15	-15	-16	-13	-9	-8	-8	-6	-6	-10	-12	-13	-11	-10	-9	-8	-8	-11.4	-5.8		
17-Jan-06	-8	-8	-8	-8	-8	-7	-8	-8	-8	-8	-7	-6	-6	-6	-6	-6	-7	-9	-8	-8	-7	-7	-8	-8	-7.4	-5.5		
18-Jan-06	-8	-8	-10	-12	-14	-14	-14	-14	-15	-15	-15	-15	-15	-15	-15	-16	-17	-17	-18	-18	-18	-18	-18	-18	-14.8	-8.2		
19-Jan-06	-18	-18	-21	-19	-19	-18	-18	-17	-19	-19	-19	-17	-13	-14	-14	-15	-16	-19	-20	-17	-18	-18	-17	-17	-17.5	-13.1		
20-Jan-06	-17	-18	-21	-18	-20	-19	-19	-17	-17	-19	-18	-16	-14	-14	-14	-15	-15	-14	-14	-14	-14	-14	-14	-14	-16.2	-13.9		
21-Jan-06	-14	-14	-14	-16	-18	-19	-19	-19	-19	-19	-20	-19	-16	-13	-13	-13	-12	-10	-9	-6	-5	-3	-1	-1	-12.2	-1.1		
22-Jan-06	0	1	1	1	1	0	0	1	2	2	3	3	3	3	3	2	2	1	0	4	4	4	4	5	2.0	5.2		
23-Jan-06	5	5	5	4	4	4	3	3	3	3	4	4	4	4	3	3	3	3	3	2	0	2	1	-3	2.9	5.1		
24-Jan-06	-4	-4	-4	-4	-4	-4	-3	-4	-4	-3	-2	-1	1	4	5	6	5	4	4	6	5	3	0	0	0.1	6.2		
25-Jan-06	0	0	-1	-2	-2	-4	-3	-4	-3	-4	-3	-1	1	6	7	7	6	4	1	3	0	2	5	5	0.8	7.3		
26-Jan-06	4	3	2	2	-1	-4	-4	-7	-14	-15	-14	-14	-14	-15	-15	-15	-16	-16	-17	-17	-17	-18	-18	-18	-10.8	3.8		
27-Jan-06	-18	-18	-18	-18	-18	-19	-19	-18	-18	-18	-18	-17	-16	-15	-14	-13	-13	-16	-18	-19	-19	-18	-18	-18	-17.4	-13.3		
28-Jan-06	-18	-16	-16	-16	-17	-19	-19	-15	-13	-14	-13	-13	-12	-11	-11	-11	-11	-11	-12	-12	-12	-13	-15	-15	-14.0	-11.1		
29-Jan-06	-16	-17	-19	-18	-17	-16	-18	-19	-20	-19	-17	-13	-8	-6	-4	-5	-6	-8	-8	-10	-12	-11	-11	-11	-12.9	-4.4		
30-Jan-06	-12	-12	-12	-11	-11	-11	-12	-12	-12	-11	-11	-11	-10	-9	-10	-10	-10	-11	-11	-11	-11	-12	-12	-11	-11.2	-9.3		
31-Jan-06	-12	-12	-12	-12	-13	-14	-15	-17	-15	-14	-13	-12	-10	-9	-8	-6	-7	-10	-10	-10	-10	-10	-10	-10	-11.3	-5.8		
Hourly Avg	-8.8	-9.2	-9.5	-9.5	-9.7	-10.0	-10.2	-10.4	-10.6	-10.6	-9.8	-8.4	-7.1	-6.2	-5.8	-5.9	-6.8	-8.1	-8.6	-8.4	-8.5	-8.5	-8.6	-8.6				
Hourly Max	5.1	4.7	4.7	4.4	4.2	3.7	3.3	2.7	3.1	3.3	3.7	3.7	3.6	5.7	7.3	7.3	5.9	4.0	4.2	6.2	5.4	3.7	4.5	5.2				

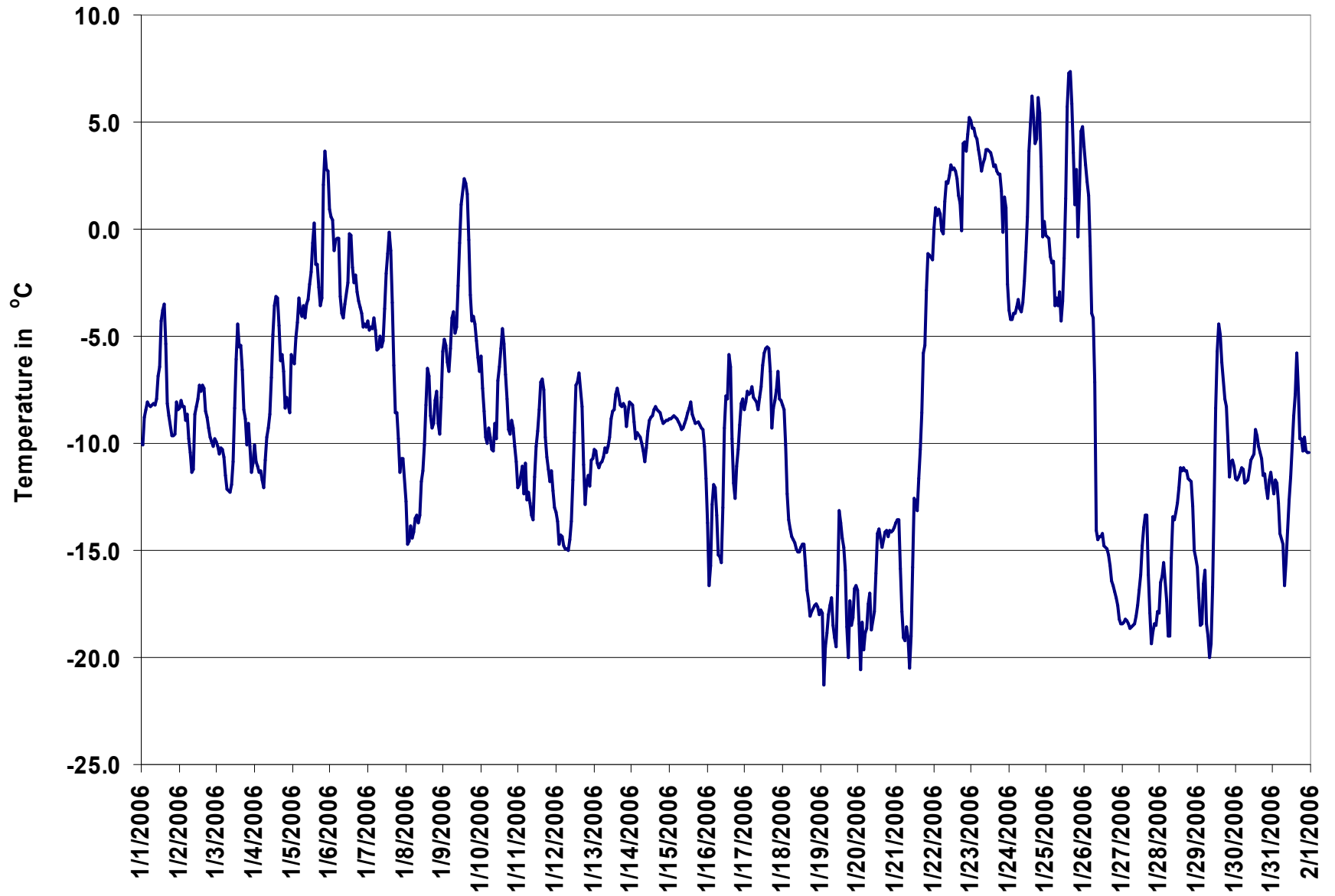


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

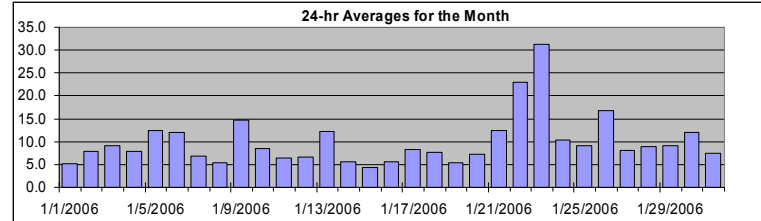
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	51.9	km/hr	23-Jan	0:00 1:00
Maximum 24-hr Value:	31.3	km/hr	23-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
	41.3	25.7	11.2	7.9	5.6	3.0	2.2	9.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jan-06	7	6	5	4	3	2	2	2	4	6	5	7	10	7	7	4	3	2	4	4	6	7	11	9	5.2	11.1
2-Jan-06	11	8	9	9	7	5	3	4	2	4	5	7	7	8	9	9	9	11	11	10	10	10	10	12	7.9	11.6
3-Jan-06	9	10	9	9	10	7	8	7	7	10	10	10	10	10	10	8	9	12	9	11	10	9	10	9	9.2	11.8
4-Jan-06	8	8	9	11	11	9	9	9	10	8	10	6	8	10	9	7	8	11	5	6	6	2	6	6	8.0	10.9
5-Jan-06	4	3	4	6	9	10	3	9	11	10	7	8	11	6	6	5	10	14	11	8	30	38	38	35	12.3	38.3
6-Jan-06	26	29	26	25	22	23	22	13	8	5	7	9	5	6	6	7	8	7	6	4	5	3	5	8	11.9	28.6
7-Jan-06	9	6	9	9	12	8	8	8	8	8	7	6	7	5	4	6	7	5	6	3	4	4	5	6	6.7	12.0
8-Jan-06	4	2	3	4	4	4	5	7	7	8	7	7	6	8	6	6	5	6	7	6	4	6	4	6	5.4	7.6
9-Jan-06	6	4	7	11	12	13	14	15	14	11	19	27	29	32	25	15	12	7	12	14	14	13	13	16	14.8	31.6
10-Jan-06	11	7	10	11	13	15	10	8	8	8	8	9	8	6	5	8	7	7	9	9	8	6	6	8	8.5	14.6
11-Jan-06	6	3	5	10	7	6	7	6	6	4	4	4	4	4	6	6	4	4	6	10	12	14	9	8	6.4	14.3
12-Jan-06	8	6	7	7	8	7	8	6	6	8	7	6	6	4	6	6	4	5	5	5	7	7	8	10	6.6	10.1
13-Jan-06	10	14	13	13	16	17	16	15	17	15	15	12	14	11	8	9	10	9	8	7	8	10	12	11	12.1	16.9
14-Jan-06	9	9	9	8	8	8	6	3	4	6	6	6	6	6	3	2	4	5	5	5	5	4	4	3	5.6	9.5
15-Jan-06	3	2	2	2	2	3	4	5	5	6	5	5	6	6	7	8	6	4	4	4	5	4	4	3	4.3	8.0
16-Jan-06	3	2	3	5	6	7	8	9	8	7	6	3	3	5	3	2	5	4	4	8	6	7	9	12	5.7	12.0
17-Jan-06	11	9	8	9	10	11	12	5	4	6	5	6	7	8	9	8	7	7	7	3	7	11	15	15	8.3	14.8
18-Jan-06	13	11	14	14	12	11	10	7	7	6	7	9	6	8	8	7	7	5	5	2	3	3	3	3	7.6	14.0
19-Jan-06	3	4	5	3	6	7	4	3	4	5	3	5	3	7	7	6	5	5	4	4	10	7	9	8	5.3	9.9
20-Jan-06	6	5	5	8	8	8	9	8	7	9	9	9	8	6	9	10	9	8	9	8	5	3	3	3	7.3	10.0
21-Jan-06	4	5	6	10	10	9	8	7	7	6	6	6	7	10	11	15	14	20	23	22	22	26	25	20	12.5	26.1
22-Jan-06	19	24	25	27	26	23	23	28	39	38	30	30	25	19	11	11	11	5	5	19	19	23	30	43	23.0	43.5
23-Jan-06	52	46	51	44	49	43	38	34	37	40	42	31	29	32	26	27	22	25	27	16	4	12	13	11	31.3	51.9
24-Jan-06	7	6	6	6	8	7	4	6	12	14	17	12	8	4	8	18	14	12	15	22	19	13	6	5	10.5	21.6
25-Jan-06	3	6	4	7	7	7	8	9	7	9	10	8	9	5	3	4	6	11	10	13	12	16	21	27	9.2	26.7
26-Jan-06	20	27	22	21	16	15	11	15	21	18	17	19	20	16	13	14	15	15	13	13	14	14	16	14	16.8	27.1
27-Jan-06	13	13	10	10	11	8	9	7	9	10	10	7	6	4	3	2	3	2	5	7	11	12	12	10	8.1	12.6
28-Jan-06	11	9	8	9	5	3	6	10	9	10	11	12	12	14	12	13	13	15	9	8	8	4	2	2	9.0	14.9
29-Jan-06	2	3	5	7	9	10	9	8	7	7	7	7	13	16	15	10	10	6	10	10	9	11	12	13	9.0	15.5
30-Jan-06	16	20	20	22	22	20	21	21	14	12	12	13	12	11	11	10	7	4	4	3	3	2	3	6	12.0	21.6
31-Jan-06	2	5	7	9	9	12	11	11	8	7	8	7	7	9	7	5	10	10	6	4	4	4	5	9	7.4	11.6
1-hr Average	10.2	10.1	10.6	11.3	11.5	10.9	10.2	9.9	10.2	10.4	10.3	10.0	10.0	9.8	8.8	8.7	8.5	8.5	8.5	8.7	9.4	9.9	10.7	11.3		
Hourly Max	51.9	45.7	51.1	44.0	48.8	43.2	38.4	33.7	38.9	40.3	42.1	31.0	29.5	32.1	25.7	27.2	22.4	24.6	27.5	21.6	29.8	38.3	38.3	43.5		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

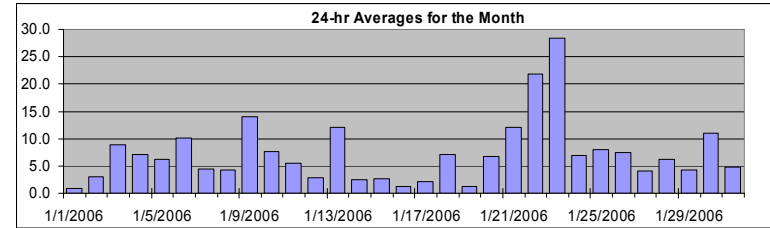
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	51.9	km/hr	23-Jan	0:00 1:00
Maximum 24-hr Value:	28.4	km/hr	23-Jan	



Calm Time:	5 hrs	1% calms	Operational Time:	739 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	41.3	25.7	11.0	7.8	5.3	2.3	1.4	16.5 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-Jan-06	7	6	4	4	2	2	1	2	2	5	5	6	10	7	7	2	3	1	3	4	5	7	11	9	0.9	10.8
2-Jan-06	11	8	9	9	6	3	3	1	1	3	4	7	7	8	9	9	9	11	11	9	10	10	10	11	3.0	11.0
3-Jan-06	8	9	9	9	9	6	8	7	6	10	10	10	10	9	10	8	9	12	8	11	10	9	10	9	8.8	11.6
4-Jan-06	8	7	9	11	11	8	9	9	10	8	10	6	8	9	8	7	8	10	4	6	5	1	6	5	7.2	10.8
5-Jan-06	4	3	4	5	8	10	2	9	11	10	6	8	10	5	6	3	9	13	11	7	30	38	38	35	6.2	38.2
6-Jan-06	26	29	26	25	22	23	22	12	8	4	6	9	5	5	6	7	8	7	4	2	2	calm	5	7	10.0	28.6
7-Jan-06	9	5	9	9	12	8	8	8	8	8	6	6	7	5	4	6	6	4	5	2	3	4	4	6	4.5	12.0
8-Jan-06	4	1	2	4	4	4	5	6	7	8	7	7	6	8	6	5	5	5	7	6	3	5	4	6	4.3	7.6
9-Jan-06	5	2	7	11	12	13	13	15	14	11	19	26	29	31	25	15	12	7	12	14	14	13	13	16	14.0	31.5
10-Jan-06	10	7	10	10	13	14	9	8	8	8	8	8	7	5	4	7	7	6	9	9	8	6	6	7	7.7	14.5
11-Jan-06	6	3	5	9	7	5	7	6	5	4	4	4	3	4	6	6	4	4	5	10	12	14	9	8	5.6	14.3
12-Jan-06	8	6	7	7	8	7	8	6	5	8	7	6	5	4	5	5	4	5	5	4	7	7	8	10	2.8	10.1
13-Jan-06	10	14	13	13	16	17	16	15	17	15	15	12	14	11	7	9	10	9	8	7	8	10	12	11	12.1	16.9
14-Jan-06	9	9	9	7	8	8	5	2	4	5	6	5	6	6	2	1	4	5	5	4	5	3	3	3	2.5	9.4
15-Jan-06	2	2	2	1	1	3	4	5	5	6	5	5	6	6	7	8	5	4	3	2	4	4	3	3	2.6	7.9
16-Jan-06	3	1	3	5	6	7	8	9	8	7	6	3	2	5	2	2	4	4	4	8	6	7	9	12	1.2	12.0
17-Jan-06	11	9	8	9	10	11	12	4	3	4	4	5	7	7	9	8	6	7	6	2	6	11	15	15	2.2	14.8
18-Jan-06	13	11	14	13	12	11	10	7	7	6	7	9	6	8	8	7	7	4	5	calm	3	3	3	2	7.1	13.6
19-Jan-06	3	4	4	calm	5	7	4	3	3	5	3	4	3	7	6	6	5	5	3	3	10	7	9	8	1.3	9.9
20-Jan-06	5	5	5	7	8	8	9	8	7	9	9	9	8	6	9	10	9	8	9	7	5	3	2	3	6.8	10.0
21-Jan-06	3	5	6	10	10	9	8	7	7	6	6	6	7	10	11	15	13	20	23	21	22	26	25	20	12.1	26.0
22-Jan-06	19	24	25	27	26	23	23	28	39	38	30	30	25	19	11	10	10	4	4	19	19	23	30	43	21.9	43.4
23-Jan-06	52	46	51	44	49	43	38	34	37	40	42	31	28	32	26	27	22	24	27	15	1	12	12	11	28.4	51.9
24-Jan-06	7	6	6	6	8	6	3	6	12	14	17	12	8	3	7	18	14	11	15	21	19	13	6	5	7.0	21.5
25-Jan-06	calm	6	4	7	6	7	7	9	7	8	9	8	9	5	3	2	4	10	10	13	12	16	21	26	8.0	26.4
26-Jan-06	20	27	22	21	15	15	11	15	21	18	17	19	20	16	13	14	15	15	13	13	14	14	16	14	7.5	27.0
27-Jan-06	13	12	10	10	10	8	9	7	9	10	10	7	6	4	3	calm	2	1	5	7	11	11	12	10	4.2	12.5
28-Jan-06	11	9	8	9	3	2	5	10	8	10	11	12	12	14	12	13	13	15	9	8	8	3	2	2	6.3	14.8
29-Jan-06	2	3	5	7	9	10	9	7	6	7	6	7	13	15	15	10	10	6	10	10	9	11	12	13	4.2	15.5
30-Jan-06	16	20	20	21	22	20	21	21	14	12	12	13	12	11	11	9	6	3	3	3	2	1	3	6	10.9	21.5
31-Jan-06	1	4	6	9	9	12	11	11	8	7	8	7	7	9	7	4	10	10	5	4	3	4	5	9	4.8	11.6
1-hr Vector	4.5	4.0	4.7	5.0	4.8	4.5	4.2	3.6	4.2	4.4	4.8	4.2	4.1	4.1	3.4	3.0	3.2	3.5	3.3	3.7	4.2	4.5	4.4	4.6		
Hourly Max	51.9	45.6	51.1	43.9	48.8	43.2	38.3	33.5	38.8	40.2	42.0	30.7	29.4	31.9	25.6	27.1	22.3	24.4	27.3	21.5	29.6	38.2	38.2	43.4		

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2006 to February 1, 2006

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
	354.9	297.3	251.1	214.7	37.8	17.8	7.0	273 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00		
1-Jan-06	28	22	27	17	37	287	78	176	205	223	229	191	230	220	212	178	297	35	38	25	27	32	31	30	9	N
2-Jan-06	32	29	36	42	35	46	16	73	214	214	236	182	193	189	199	208	213	221	229	253	228	247	240	241	225	SW
3-Jan-06	251	233	240	234	212	237	211	221	226	237	238	233	222	210	193	192	205	222	257	210	231	217	209	213	223	SW
4-Jan-06	235	207	200	212	199	224	223	223	206	211	209	200	212	207	202	199	205	227	265	318	267	235	266	275	220	SW
5-Jan-06	323	26	356	251	246	185	233	32	29	25	14	14	55	5	34	165	208	206	206	275	248	255	249	259	260	W
6-Jan-06	269	270	270	272	272	267	269	266	191	197	261	285	295	149	303	296	303	303	343	26	7	159	247	247	271	W
7-Jan-06	259	198	204	221	220	222	261	254	252	225	266	252	242	242	186	200	289	305	7	97	301	312	21	33	246	WSW
8-Jan-06	34	218	249	278	209	218	228	238	219	220	210	211	203	204	195	191	199	219	209	285	307	287	278	279	229	SW
9-Jan-06	232	217	243	246	264	283	257	243	204	211	241	260	259	260	256	260	255	246	217	219	218	241	233	234	246	WSW
10-Jan-06	225	252	258	255	262	269	231	241	223	239	212	196	188	240	244	197	194	237	213	261	205	262	247	264	236	SW
11-Jan-06	271	219	215	259	251	200	198	224	212	200	238	194	214	198	198	207	219	245	258	269	273	276	275	264	241	WSW
12-Jan-06	266	194	227	221	210	209	227	231	239	205	191	206	174	145	165	208	227	284	294	357	27	28	29	25	224	SW
13-Jan-06	24	28	29	28	26	31	27	27	26	26	27	24	20	19	12	32	24	27	21	43	17	24	30	37	26	NNE
14-Jan-06	40	33	37	32	26	40	41	44	196	235	267	223	245	259	237	102	82	37	29	359	1	20	40	109	23	NNE
15-Jan-06	129	197	226	90	135	201	195	191	195	205	208	232	226	224	218	212	247	256	9	267	237	50	59	59	213	SSW
16-Jan-06	40	321	272	224	223	229	231	214	229	216	233	196	278	275	301	50	29	5	12	33	29	31	29	33	298	WNW
17-Jan-06	33	18	22	28	21	30	19	64	179	222	154	171	191	184	194	206	264	295	262	215	233	22	24	22	14	NNE
18-Jan-06	17	24	10	12	21	28	22	15	2	12	355	358	355	34	17	12	28	10	8	37	54	59	98	158	18	NNE
19-Jan-06	196	160	184	26	163	206	174	176	235	327	342	280	262	256	260	234	262	269	304	347	28	20	29	39	282	WNW
20-Jan-06	23	16	1	34	39	30	28	29	44	41	41	35	36	51	43	42	37	26	41	41	46	58	74	217	36	NE
21-Jan-06	209	182	201	208	221	236	244	240	244	262	229	232	239	233	244	252	244	234	253	246	239	243	249	249	240	WSW
22-Jan-06	242	234	239	241	240	230	219	246	258	260	257	253	244	237	201	178	195	218	247	264	267	258	253	261	245	WSW
23-Jan-06	263	262	259	261	264	267	269	274	281	285	286	287	296	302	307	312	314	316	319	308	239	338	342	34	284	WNW
24-Jan-06	33	37	25	38	35	31	25	259	240	232	237	236	240	253	241	233	254	256	236	242	245	227	236	287	249	WSW
25-Jan-06	254	264	238	236	228	219	229	239	258	229	244	258	269	271	296	350	171	193	251	221	268	279	276	283	253	WSW
26-Jan-06	276	262	235	238	244	270	225	36	26	37	22	26	40	33	29	27	31	36	48	49	46	33	44	11	N	
27-Jan-06	34	40	40	36	37	33	34	48	27	41	36	45	25	36	37	268	100	176	252	247	256	270	281	270	13	NNE
28-Jan-06	269	266	268	254	314	31	28	32	28	31	32	36	39	36	23	21	24	26	18	358	351	1	266	245	10	N
29-Jan-06	254	271	259	260	258	253	244	222	239	236	223	237	254	250	264	257	257	31	43	38	34	18	22	23	277	W
30-Jan-06	28	30	30	35	35	28	28	25	17	10	11	9	11	11	10	16	12	3	37	38	49	165	151	174	25	NNE
31-Jan-06	155	256	241	232	233	219	230	236	244	233	235	211	226	244	240	259	272	277	21	358	355	21	26	31	249	WSW
Hourly Avg	293	280	270	269	266	268	263	270	263	263	268	265	265	262	259	252	268	277	291	284	275	287	292	289		

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, 2006 to February 1, 2006

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
	50.8	33.3	12.7	7.3	4.9	2.8	2.2

Status Flag Characters

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

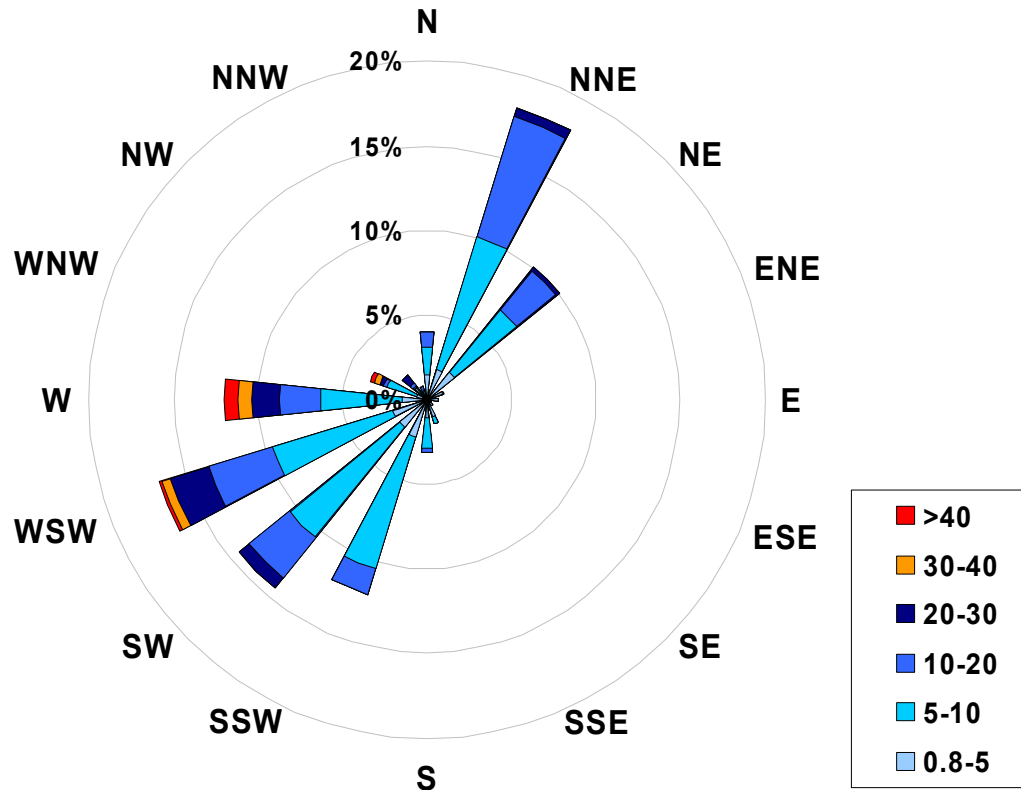
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jan-06	3	5	10	8	20	55	22	20	34	6	10	10	6	10	9	19	30	57	12	10	8	11	12	10	
2-Jan-06	6	6	5	7	12	32	21	37	46	22	21	8	11	9	6	9	8	4	5	9	10	6	8	9	
3-Jan-06	9	10	7	8	17	16	5	12	7	3	4	3	6	8	4	5	4	4	16	7	9	7	5	4	
4-Jan-06	5	8	5	5	7	20	6	8	7	6	3	6	7	9	8	14	42	7	29	12	16	29	8	6	
5-Jan-06	11	11	7	23	18	12	27	9	5	10	15	8	24	28	9	33	8	6	12	14	5	3	2	3	
6-Jan-06	3	2	3	4	2	1	2	16	11	53	13	12	45	24	10	3	3	5	19	28	26	29	14	10	
7-Jan-06	10	19	5	5	2	5	5	3	8	5	52	11	7	10	11	7	11	24	18	33	22	12	12	5	
8-Jan-06	11	46	28	12	13	7	7	6	4	4	3	3	5	5	10	6	8	15	12	11	14	15	22	14	
9-Jan-06	20	45	9	12	4	5	4	6	6	7	4	2	4	4	4	6	3	7	4	5	4	11	3	3	
10-Jan-06	15	9	6	4	3	3	14	9	13	6	8	8	13	12	10	28	12	19	10	11	4	12	6	5	
11-Jan-06	6	13	7	8	4	15	5	9	7	7	9	8	9	6	5	5	8	7	16	7	4	2	9	7	
12-Jan-06	8	9	7	3	6	4	7	12	19	7	7	14	11	19	13	8	11	5	7	11	3	5	4	4	
13-Jan-06	6	4	3	5	3	3	3	5	4	4	4	5	5	12	9	7	7	7	7	6	8	4	5	5	
14-Jan-06	5	7	6	7	9	6	10	49	11	15	18	16	11	14	33	37	15	10	10	12	10	15	17	13	
15-Jan-06	13	12	28	43	42	12	13	11	10	9	11	10	9	8	8	5	13	13	42	31	25	21	18	7	
16-Jan-06	18	57	29	11	7	6	5	3	4	5	7	13	21	11	40	40	7	8	17	5	5	13	6	3	
17-Jan-06	4	5	9	5	8	5	4	18	15	19	17	16	15	6	5	4	12	10	17	57	12	11	4	6	
18-Jan-06	7	6	6	9	6	5	6	8	9	11	8	9	15	12	10	8	8	10	22	34	28	20	17	17	
19-Jan-06	23	15	30	26	15	7	12	16	18	10	11	12	14	5	15	7	10	17	25	31	3	6	4	6	
20-Jan-06	19	28	9	13	6	5	4	6	6	7	5	6	6	9	5	3	5	9	7	19	12	37	37	37	
21-Jan-06	22	13	7	4	4	8	8	4	5	4	5	4	4	4	4	3	6	3	3	3	3	2	3	3	
22-Jan-06	3	4	3	3	2	3	4	4	3	3	3	3	5	3	7	6	14	31	25	6	3	3	3	3	
23-Jan-06	2	3	3	3	2	2	2	3	3	4	4	5	6	5	5	5	6	6	6	22	37	9	11	5	
24-Jan-06	5	8	18	18	8	19	37	10	5	7	26	18	3	6	7	3	2	2	6	13	20				
25-Jan-06	49	9	11	9	8	10	14	7	14	14	8	8	7	14	34	32	24	13	9	17	6	5	5	5	
26-Jan-06	6	3	4	3	10	4	18	21	5	4	5	5	5	6	7	5	4	5	5	5	6	5	4	5	
27-Jan-06	5	6	7	7	7	5	5	8	4	5	5	7	6	10	16	61	35	27	14	4	5	7	4	5	
28-Jan-06	3	4	5	5	28	34	27	3	5	4	3	3	4	5	4	4	4	9	7	5	58	35	29	57.6	
29-Jan-06	18	13	19	5	4	3	4	8	12	8	7	7	3	3	6	6	7	29	6	9	10	4	5	4	
30-Jan-06	3	3	3	6	4	8	3	3	5	6	5	5	6	7	6	7	11	17	16	48	36	32	17	7	
31-Jan-06	39	14	30	14	9	3	5	6	4	5	10	7	11	5	10	12	6	5	15	14	12	9	8	6	

Daily Maximum
57.0
46.1
17.1
42.0
33.3
53.0
51.9
46.0
44.9
28.0
16.2
19.2
11.7
49.1
43.0
56.7
56.7
33.7
30.8
37.4
22.0
30.7
37.1
37.3
49.5
21.3
60.5
57.6
28.9
48.1
38.7

Hourly Max	49	57	30	43	42	55	37	49	46	53	52	16	45	28	40	61	42	57	42	57	37	58	37	37
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for January 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	148
5	to	10	355
10	to	20	172
20	to	30	48
30	to	40	12
	>	40	9
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, 2006 to February 1, 2006

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:	696
Number of 1-hr Fair Readings:	1
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Jan-06	8	9	9	9	8	8	7	8	8	8	9	8	9	7	7	8	8	9	9	10	7	7	7	7
2-Jan-06	8	7	6	7	7	7	7	6	8	7	7	10	10	11	8	8	7	13	6	4	4	4	3	4
3-Jan-06	4	4	4	5	3	5	8	10	10	10	10	11	12	12	11	10	11	10	12	7	11	9	9	8
4-Jan-06	9	10	5	7	7	7	6	7	5	6	7	9	13	15	15	11	14	15	15	16	17	17	15	16
5-Jan-06	16	11	4	6	15	18	18	17	17	14	10	10	10	12	12	10	10	8	20	21	22	21	21	21
6-Jan-06	21	21	21	21	20	21	18	16	16	18	18	16	15	N	N	13	13	14	13	8	5	6	5	7
7-Jan-06	9	9	10	10	11	11	11	11	12	10	10	11	12	9	10	16	15	13	16	11	16	16	14	15
8-Jan-06	15	11	10	11	9	7	7	6	4	5	5	5	8	9	10	5	4	6	6	6	4	4	5	
9-Jan-06	4	4	7	5	5	9	18	18	20	20	20	20	20	20	20	19	18	19	19	19	19	17	18	17
10-Jan-06	17	18	18	18	18	17	17	17	13	14	N	N	N	N	N	N	N	N	N	N	N	N	N	N
11-Jan-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7	6	7	7	7	6	7	9
12-Jan-06	10	12	13	11	12	10	11	10	13	13	15	10	7	9	8	8	8	11	12	14	12	13	13	11
13-Jan-06	13	9	10	10	11	11	5	9	6	5	6	N	N	N	N	6	5	10	12	7	9	10	8	
14-Jan-06	9	7	11	12	14	18	10	6	6	6	5	6	6	6	8	8	9	12	13	9	14	14	15	
15-Jan-06	13	12	13	13	12	8	7	7	9	10	8	10	9	8	9	8	9	9	12	10	9	10	8	13
16-Jan-06	8	14	9	10	11	13	12	10	10	8	6	10	9	6	7	6	6	7	5	6	6	6	7	7
17-Jan-06	9	9	10	11	7	6	5	5	7	11	11	11	10	9	9	8	9	13	13	18	20	17	6	9
18-Jan-06	8	7	7	8	8	9	9	9	9	10	11	12	12	14	14	13	12	12	11	12	11	10	10	10
19-Jan-06	10	9	8	8	9	8	9	10	5	6	7	9	8	8	8	7	5	6	6	5	6	6	6	6
20-Jan-06	7	7	6	7	5	6	6	5	5	5	5	6	7	7	7	8	8	8	8	8	8	7	7	7
21-Jan-06	8	7	10	23	19	9	7	7	8	5	9	10	11	12	13	17	20	19	N	18	19	19	20	19
22-Jan-06	20	19	19	19	N	20	20	20	20	19	19	18	N	18	19	17	20	20	20	19	19	19	19	19
23-Jan-06	20	20	21	21	21	22	22	22	22	22	23	23	23	23	23	23	23	23	23	22	21	18	20	19
24-Jan-06	19	18	20	20	19	17	15	10	8	9	9	11	13	17	N	N	20	19	19	18	17	19	19	19
25-Jan-06	19	17	18	17	17	16	14	13	14	9	8	5	10	8	7	8	6	9	9	12	11	21	21	20
26-Jan-06	20	19	18	17	17	17	18	16	13	12	13	12	12	12	12	11	12	11	10	11	11	11	11	11
27-Jan-06	12	13	14	14	14	14	13	10	9	10	9	10	9	11	11	10	7	5	5	7	5	4	4	4
28-Jan-06	4	4	4	N	4	N	10	4	6	4	9	7	8	8	8	8	9	10	7	7	9	14	27	11
29-Jan-06	7	7	7	9	8	8	9	9	9	11	18	21	N	21	21	20	N	18	19	18	16	16	20	20
30-Jan-06	19	N	19	19	18	18	16	12	14	13	13	13	11	11	11	11	11	9	9	8	5	7	9	11
31-Jan-06	9	9	9	9	9	9	8	5	8	8	8	7	7	10	12	11	6	5	6	8	6	9	16	12

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

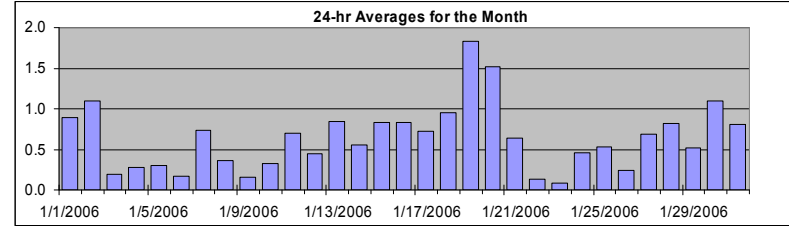
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	2.7 ppb	19-Jan	10:00	11:00
Maximum 24-hr Average:	1.8 ppb	19-Jan		



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	1.8	0.9	0.5	0.2	0.1	0.0	0.6 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	24:00
1-Jan-06	1	1	0	1	1	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8
2-Jan-06	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	0	0	0	0	0	0	1.1	1.9	
3-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
4-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	1.4	
5-Jan-06	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
6-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	1	1	0	0	0	0.2	0.8	
7-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	3	3	2	1	1	1	1	1	1	0.7	2.6	
8-Jan-06	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
9-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
10-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0.3	1.6	
11-Jan-06	0	0	0	0	0	0	0	0	0	1	1	2	3	2	2	0	1	1	0	0	0	0	1	0	0	0.7	2.5	
12-Jan-06	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	1	0	0	0	1	0	0	0	1	0	0.4	1.6	
13-Jan-06	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	2	2	1	0	0.8	2.0	
14-Jan-06	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	0.8	
15-Jan-06	0	0	0	1	1	2	2	2	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0.8	1.8	
16-Jan-06	1	0	0	0	0	0	0	0	0	0	1	3	2	1	1	2	1	1	1	1	1	1	1	1	1	0.8	2.7	
17-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.7	1.4	
18-Jan-06	1	1	1	1	1	0	0	0	1	0	1	2	2	1	1	1	1	2	1	1	1	1	1	1	1	0.9	2.0	
19-Jan-06	2	2	2	1	1	2	2	3	2	2	3	2	3	2	2	2	2	2	1	1	1	1	1	1	1	1.8	2.7	
20-Jan-06	2	2	2	2	1	1	1	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.5	2.2	
21-Jan-06	1	1	1	0	0	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.5	
22-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
24-Jan-06	0	2	1	2	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.9	
25-Jan-06	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0.5	1.6	
26-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0.2	0.5	
27-Jan-06	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.7	1.5	
28-Jan-06	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
29-Jan-06	1	1	0	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	1.8	
30-Jan-06	1	1	0	1	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1.1	2.3	
31-Jan-06	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
Hourly Avg	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.7	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.6	0.5	0.5				
Hourly Max	2.3	2.0	2.0	2.1	1.4	2.1	1.8	2.6	2.5	2.3	2.7	2.7	2.5	2.1	1.7	1.8	2.6	2.5	1.8	1.4	1.4	2.0	1.5	1.4				

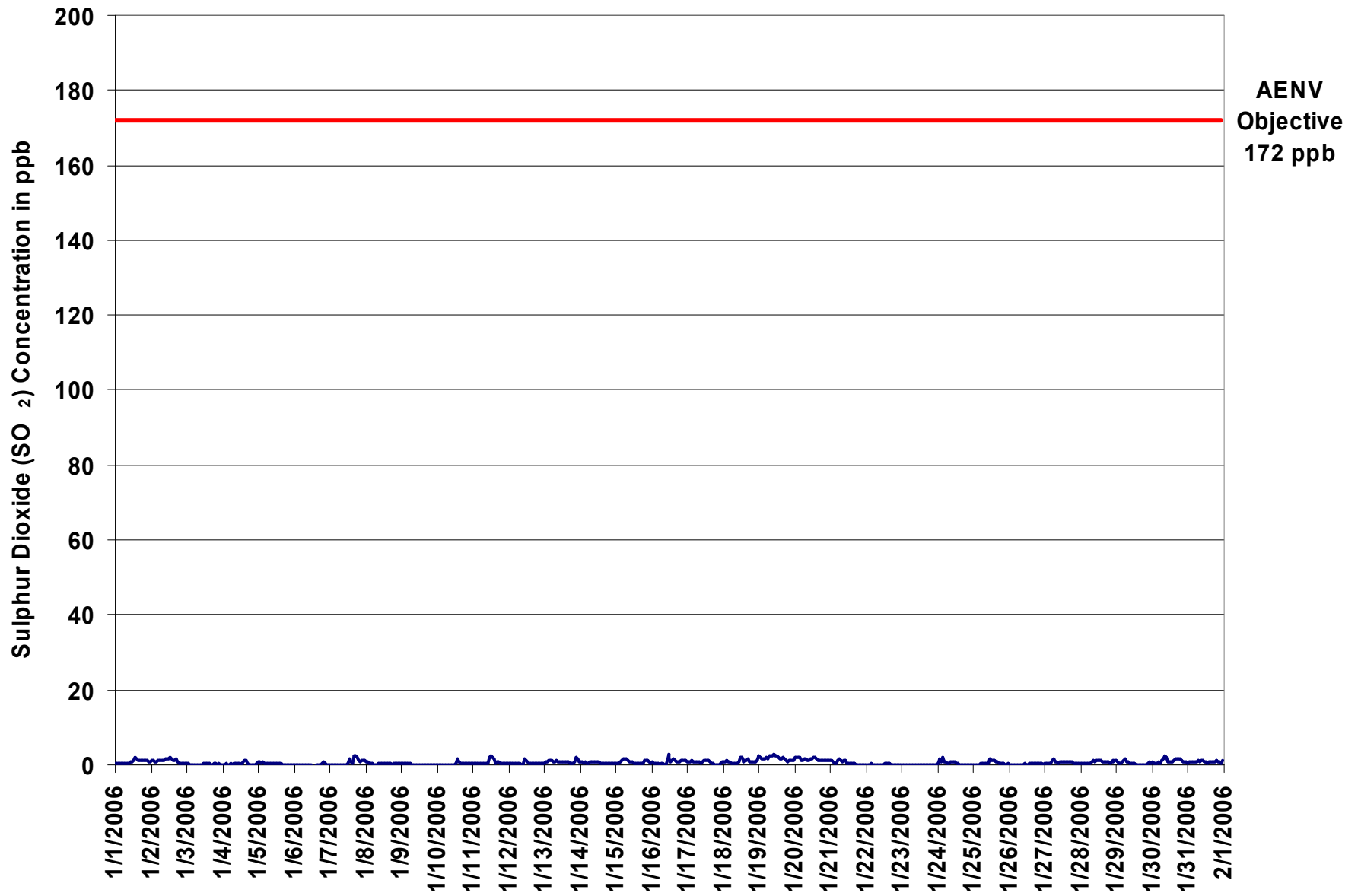


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

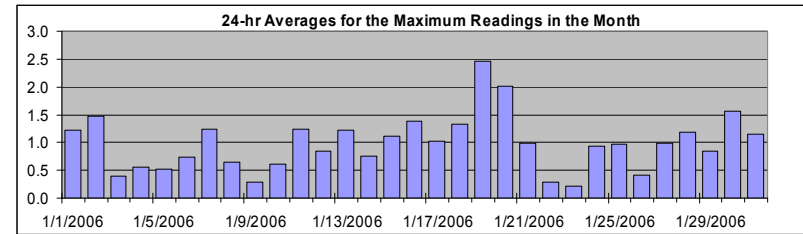
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	5.8	ppb	12-Jan	11:00 12:00
Maximum 24-hr Value:	2.5	ppb	19-Jan	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.3	2.7	1.4	0.7	0.4	0.2	0.2	1.0 ppb	0.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1	2	2	2	1	2	1	1.2	2.4
2-Jan-06	2	1	1	1	1	1	1	2	2	1	2	2	2	2	2	1	3	1	1	0	0	1	0	1.5	2.8	
3-Jan-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0.4	1.1	
4-Jan-06	0	1	1	0	0	0	1	0	0	0	0	1	0	0	1	2	2	0	0	1	0	0	0	0.6	1.7	
5-Jan-06	1	1	1	1	1	0	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0.5	1.2	
6-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	1	0	0	4	4	3	1	0	0	0.7	3.7
7-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	2	3	4	4	2	1	2	2	1	1.2	4.0
8-Jan-06	1	1	1	1	0	0	0	0	0	0	1	1	1	0	1	0	1	1	0	2	2	1	1	1	0.7	1.8
9-Jan-06	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
10-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1	1	1	1	0	1	0	0	0.6	2.8
11-Jan-06	1	0	0	1	0	0	0	1	0	3	1	5	3	3	2	1	2	1	1	0	1	1	1	1	1.2	5.0
12-Jan-06	1	1	0	0	0	0	0	0	0	0	0	6	2	2	1	0	0	0	1	1	1	1	1	1	0.8	5.8
13-Jan-06	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1.2	2.7
14-Jan-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0.8	1.1
15-Jan-06	0	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1.1	2.2
16-Jan-06	2	0	1	0	1	0	0	0	0	0	4	5	2	1	2	2	2	1	1	1	1	1	1	1	1.4	4.6
17-Jan-06	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	0	0	0	0	0	0	1	1.0	1.6
18-Jan-06	1	1	2	1	1	1	0	2	1	1	1	3	3	1	1	2	2	2	1	1	1	1	1	2	1.3	3.0
19-Jan-06	3	2	2	2	2	3	3	3	3	3	5	3	4	3	2	2	2	2	2	1	1	2	1	3	2.5	4.9
20-Jan-06	4	3	3	2	2	2	2	3	2	2	2	3	2	2	2	1	2	2	1	2	2	2	2	2	2.0	3.6
21-Jan-06	2	2	1	0	0	2	2	2	1	3	3	1	1	1	1	1	0	0	0	0	0	0	0	0	1.0	3.1
22-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.8
23-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
24-Jan-06	0	4	2	5	2	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.9	4.8
25-Jan-06	0	0	0	0	0	0	1	1	1	1	2	5	2	1	2	1	1	1	1	1	1	0	0	1	1.0	4.8
26-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0.4	0.8
27-Jan-06	1	1	1	0	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
28-Jan-06	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.2	2.2
29-Jan-06	2	1	1	1	1	2	3	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0.8	2.5
30-Jan-06	2	1	1	1	1	1	3	3	3	3	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1.6	3.2
31-Jan-06	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	4	1.2	3.6
Hourly Avg	1.0	1.0	0.8	0.9	0.7	0.9	1.0	1.1	1.0	1.0	1.2	1.5	1.3	1.2	1.1	1.0	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.9		
Hourly Max	3.6	4.3	2.5	4.8	1.7	3.0	2.9	3.2	3.2	3.1	4.9	5.8	4.5	4.0	2.8	2.3	3.3	3.5	3.8	3.7	2.9	2.7	2.4	3.6		

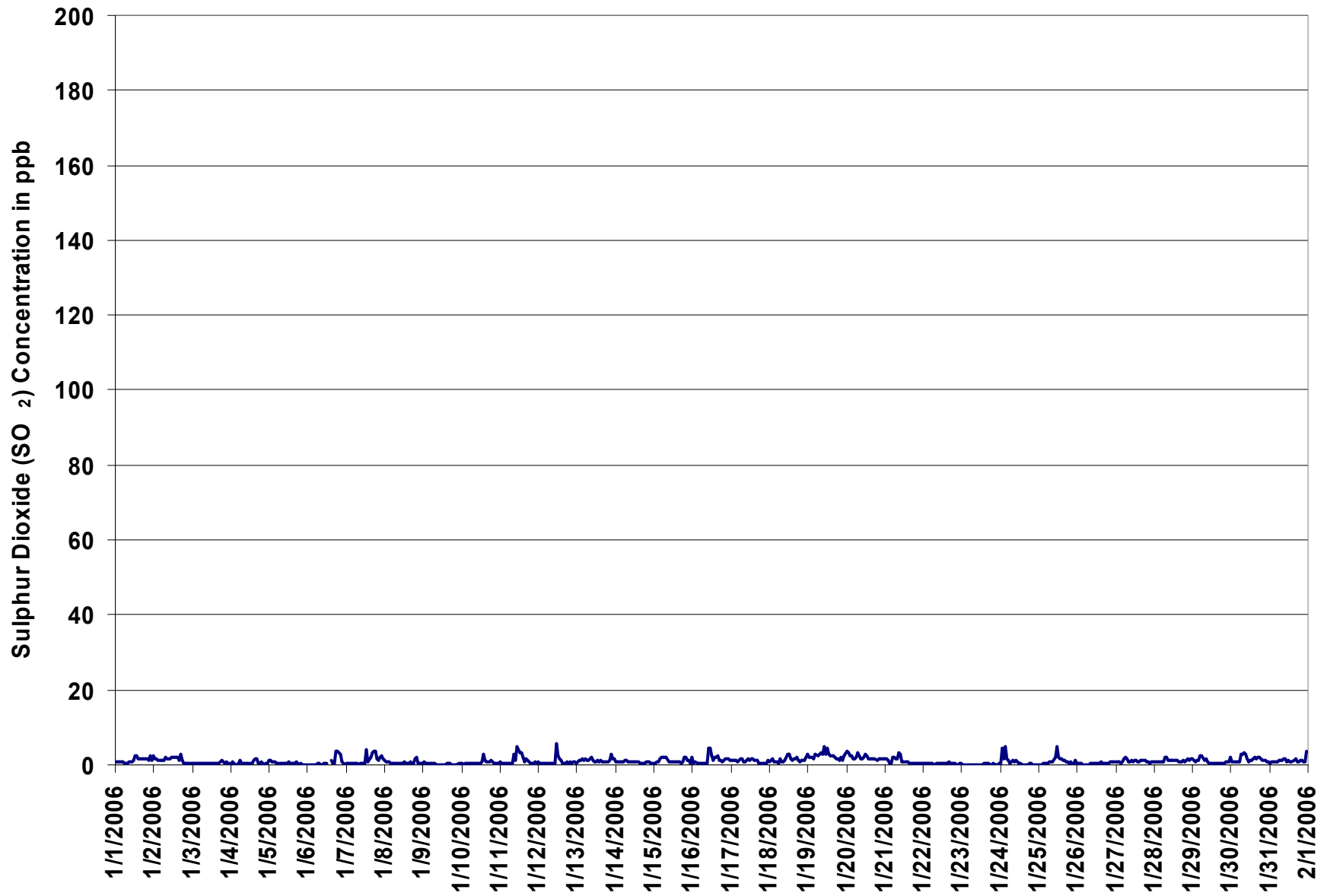
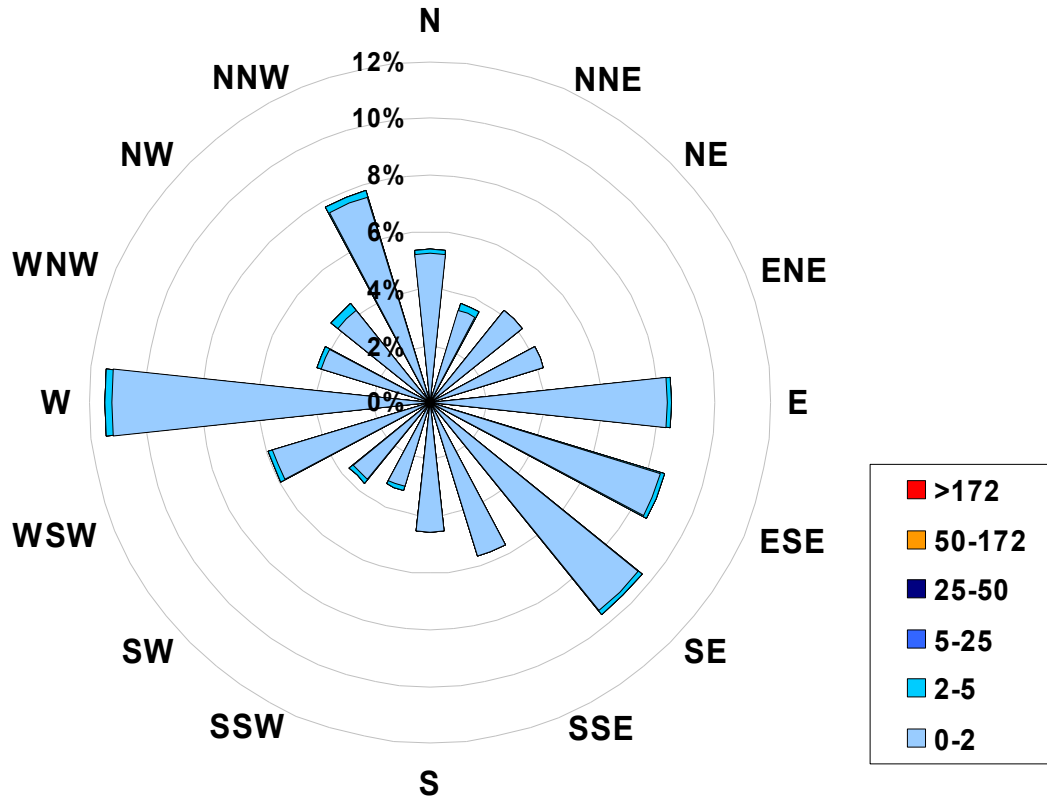


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 5%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	722
2	to	5	20
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			742

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

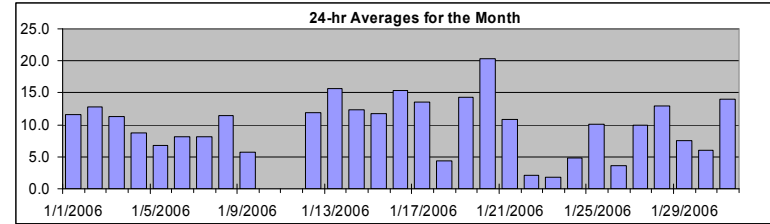
Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

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:	28.3	ppb	13-Jan	21:00 22:00
Maximum 24-hr Average:	20.3	ppb	20-Jan	

AIC Time:	0 hrs		Operational Time:	711 hrs					
Calibration Time:	13 hrs		AMD Operational Uptime:	97.3%					
Percentile	99	95	75	50	25	5	1	Average	Median
	25.1	21.4	14.2	9.7	4.2	1.1	0.6	9.9 ppb	9.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	11	12	12	12	12	12	12	11	11	10	9	8	7	9	10	11	14	15	15	14	14	14	12	13	11.6	14.7
2-Jan-06	13	12	12	11	12	13	13	12	15	14	11	11	9	11	11	12	11	13	14	16	16	16	15	15	12.7	15.9
3-Jan-06	15	16	15	14	14	13	10	9	8	8	8	8	10	11	11	12	12	10	19	10	11	10	10	11.3	19.3	
4-Jan-06	10	10	19	11	12	10	15	12	16	13	12	9	5	4	4	11	7	7	5	4	3	3	6	3	8.7	19.0
5-Jan-06	3	11	18	15	7	3	4	4	4	7	13	12	9	7	7	10	9	13	2	1	1	1	1	1	6.7	18.1
6-Jan-06	1	1	1	1	1	2	5	7	7	4	4	5	6	8	7	9	10	9	9	17	21	25	20	13	8.1	24.7
7-Jan-06	10	9	8	8	7	7	6	6	5	10	7	6	6	16	13	6	8	11	6	14	6	7	7	7	8.2	16.1
8-Jan-06	5	14	12	8	8	8	8	8	9	14	12	10	10	8	8	14	19	13	13	16	17	16	19	11.5	19.3	
9-Jan-06	19	17	14	17	17	12	3	2	2	2	1	1	1	1	1	2	3	4	2	2	2	3	3	4	5.7	18.5
10-Jan-06	4	2	2	2	2	1	1	2	5	5	C	C	C	C	C	D	D	D	D	D	D	D	D	D	N	5.0
11-Jan-06	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D	N	28.0
12-Jan-06	13	10	9	11	10	14	12	12	7	7	6	21	22	17	15	13	16	11	10	6	12	9	10	13	11.9	22.3
13-Jan-06	9	13	12	13	11	9	19	10	24	20	15	C	C	C	10	14	15	15	16	16	19	28	27	13	15.7	28.3
14-Jan-06	7	10	13	11	13	14	11	13	13	12	11	9	7	7	8	9	12	15	16	17	18	18	17	17	12.4	17.8
15-Jan-06	16	15	15	14	14	13	13	13	13	12	9	7	7	7	9	10	13	17	15	10	13	12	8	5	11.7	16.6
16-Jan-06	14	6	13	11	9	5	6	9	9	14	17	16	15	13	17	21	22	21	22	19	25	24	23	18	15.3	25.4
17-Jan-06	19	17	11	13	16	17	19	18	18	16	13	10	12	15	15	16	16	11	12	7	4	8	14	9	13.5	19.1
18-Jan-06	8	6	5	4	4	3	4	5	5	4	3	3	3	3	2	3	4	5	5	3	4	7	6	5	4.4	7.5
19-Jan-06	6	8	8	7	5	8	5	5	16	13	12	7	14	14	13	15	20	25	24	22	24	24	24	24	14.3	25.3
20-Jan-06	28	25	25	24	22	24	24	23	23	19	15	14	19	18	16	15	19	21	21	20	19	18	18	18	20.3	27.8
21-Jan-06	16	16	18	19	19	21	21	21	21	16	11	10	9	9	10	6	1	1	2	3	3	2	2	2	10.8	21.4
22-Jan-06	2	2	1	2	1	1	1	1	1	2	2	4	6	5	4	7	2	1	1	1	1	1	1	1	2.2	6.7
23-Jan-06	1	0	0	0	0	0	1	1	1	1	1	1	2	1	1	2	3	2	2	4	7	4	2	3	1.7	7.2
24-Jan-06	3	3	2	2	2	3	4	12	16	14	12	8	6	3	1	1	2	3	2	3	4	3	3	3	4.8	15.6
25-Jan-06	3	4	4	4	4	5	9	10	9	17	15	19	13	15	19	16	20	14	15	11	14	1	1	1	10.1	19.9
26-Jan-06	1	1	1	2	2	5	4	6	9	3	2	3	3	3	4	5	6	4	4	5	3	3	3	3	3.6	9.0
27-Jan-06	2	2	2	1	3	2	5	9	11	9	10	9	11	7	7	11	16	18	20	11	20	18	16	17	10.0	20.4
28-Jan-06	15	14	14	15	16	12	12	17	19	15	12	11	9	11	11	10	13	14	11	9	9	11	16	12	12.9	18.9
29-Jan-06	11	12	13	16	14	12	12	12	14	10	4	1	1	1	1	2	5	6	5	6	8	9	1	1	7.5	16.2
30-Jan-06	2	1	2	1	2	2	4	11	4	3	3	3	5	5	5	6	6	10	10	10	18	14	10	6	6.0	18.3
31-Jan-06	9	12	9	11	10	10	13	13	20	20	18	9	10	8	8	12	18	22	24	18	23	19	8	14	14.0	23.6
Hourly Avg	9.1	9.4	9.7	9.3	9.0	8.7	9.2	9.8	11.1	10.4	9.3	8.5	8.4	8.4	8.6	9.4	11.4	12.2	11.0	10.8	11.9	11.7	10.7	9.5		
Hourly Max	27.8	25.2	24.6	24.2	22.0	23.7	23.8	22.8	23.8	20.4	17.7	20.9	22.3	17.6	18.7	20.8	28.0	26.6	23.7	21.9	25.4	28.3	27.5	24.0		

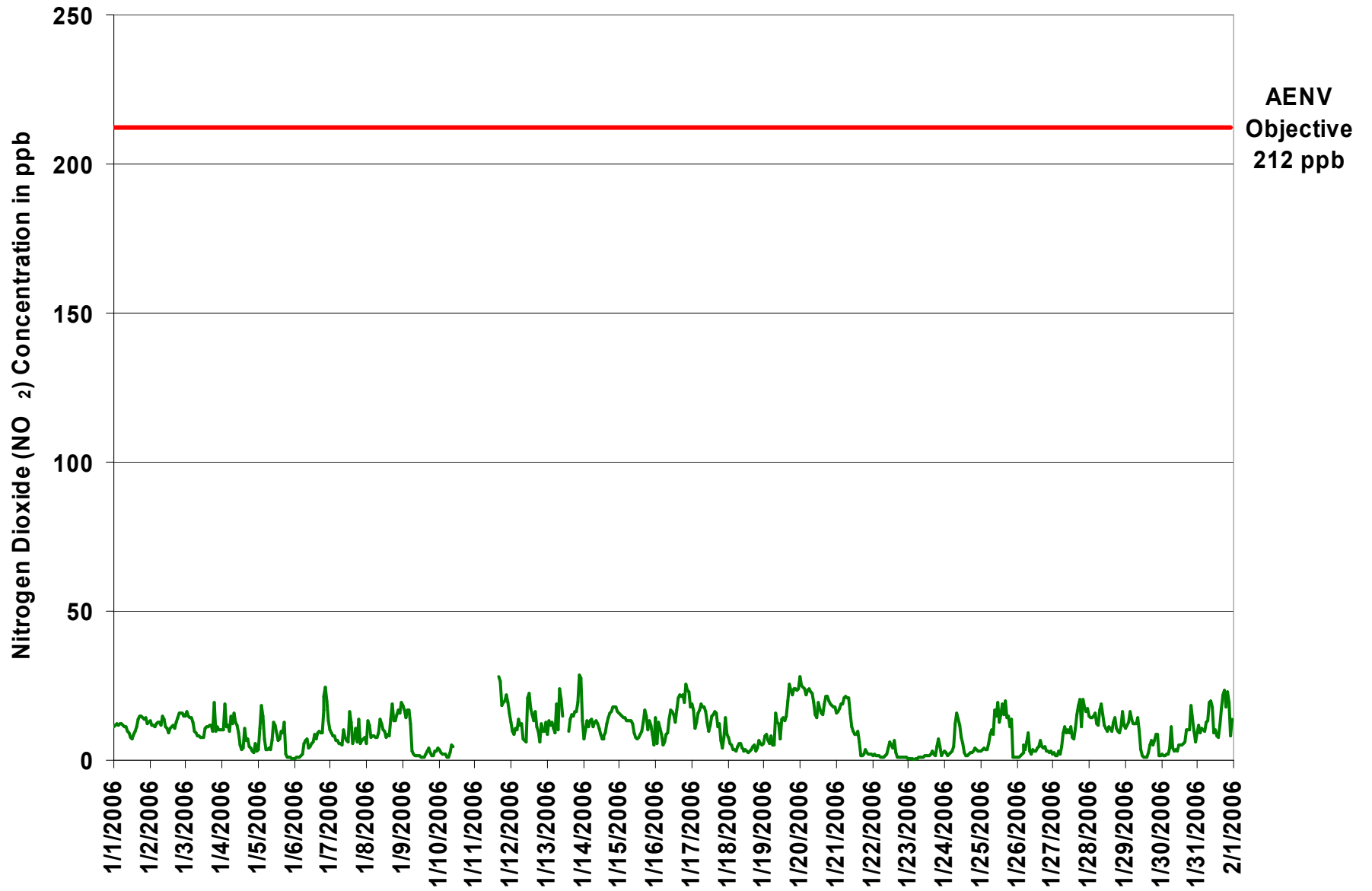


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

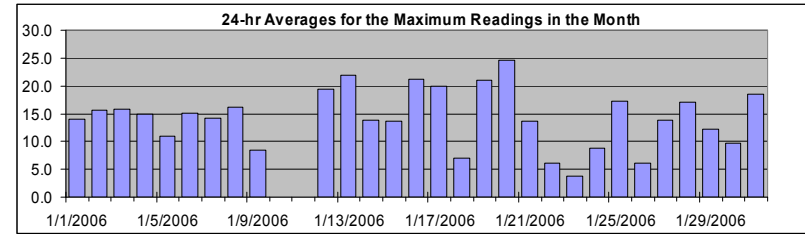
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	57.1	ppb	12-Jan	11:00 12:00
Maximum 24-hr Value:	24.6	ppb	20-Jan	



AIC Time:	0 hrs	Operational Time:	711 hrs						
Calibration Time:	13 hrs	AMD Operational Uptime:	97.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.2	28.6	19.8	13.6	7.0	2.7	1.9	14.3 ppb	13.6 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	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-06	13	12	13	13	13	13	12	12	12	11	10	8	8	9	11	13	14	15	17	16	35	16	24	15	14.1	35.2
2-Jan-06	22	16	15	13	15	15	14	20	17	15	15	13	13	16	13	13	12	15	17	17	22	18	16	17	15.7	22.3
3-Jan-06	17	18	18	18	15	15	11	12	11	10	9	10	10	13	14	13	18	15	31	31	22	27	12	13	15.9	31.0
4-Jan-06	12	24	24	13	13	14	33	14	22	17	15	13	8	6	11	23	18	17	7	10	10	8	21	4	14.9	33.1
5-Jan-06	5	17	23	17	15	6	5	5	5	19	21	23	13	9	8	14	13	25	8	4	3	3	1	2	10.9	25.2
6-Jan-06	3	2	2	2	3	5	16	14	10	6	6	12	18	15	10	24	19	16	28	40	36	30	26	21	15.2	40.1
7-Jan-06	11	11	10	9	7	12	7	10	7	15	12	8	11	31	19	15	28	21	26	27	10	13	11	11	14.1	31.4
8-Jan-06	7	30	22	10	13	11	9	12	15	17	16	12	13	9	10	10	20	21	19	21	29	24	19	21	16.2	30.3
9-Jan-06	21	19	15	21	21	18	10	4	4	3	4	3	2	2	4	5	7	11	7	3	3	6	4	8	8.5	20.8
10-Jan-06	6	4	5	2	5	4	3	11	14	11	C	C	C	C	C	D	D	D	D	D	D	D	D	D	N	13.6
11-Jan-06	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	36	36	29	26	32	29	36	23	N	36.3
12-Jan-06	16	12	11	18	13	23	28	25	13	9	9	57	33	28	22	16	22	14	12	9	17	15	27	19	19.4	57.1
13-Jan-06	18	19	18	21	19	18	27	15	31	35	23	C	C	C	11	19	20	17	18	23	26	30	29	24	21.9	35.0
14-Jan-06	9	13	15	13	14	16	13	13	14	14	12	11	8	8	9	10	15	16	18	19	18	19	18	18	13.8	19.3
15-Jan-06	16	16	15	15	15	15	14	15	14	15	10	9	8	9	11	13	15	19	18	12	15	15	11	12	13.6	19.4
16-Jan-06	27	13	25	19	12	6	8	14	19	23	28	27	19	15	26	25	25	23	25	25	29	28	27	25	21.3	28.7
17-Jan-06	26	23	14	27	24	26	30	30	22	19	15	16	14	17	19	20	20	16	19	10	15	23	23	11	19.9	30.3
18-Jan-06	11	6	6	5	4	4	7	29	8	7	5	4	4	4	3	5	5	7	8	5	5	10	9	8	7.0	28.5
19-Jan-06	7	20	20	11	9	11	8	7	29	18	28	10	47	24	17	18	26	28	26	27	26	28	26	36	21.1	46.9
20-Jan-06	57	33	29	27	26	26	27	26	25	23	18	15	24	20	20	18	22	25	24	23	23	21	19	20	24.6	57.1
21-Jan-06	17	18	20	20	19	24	23	22	22	21	13	11	10	16	12	14	3	4	10	6	6	9	5	4	13.6	24.0
22-Jan-06	4	3	3	3	4	3	3	2	3	4	5	11	11	8	6	14	29	3	2	2	17	4	2	2	6.2	28.6
23-Jan-06	1	1	1	3	1	1	3	2	3	3	2	3	5	3	4	3	6	4	3	10	11	8	3	7	3.8	10.9
24-Jan-06	4	5	2	4	4	9	8	28	27	24	18	11	8	7	3	4	5	6	5	7	7	6	5	4	8.8	28.3
25-Jan-06	4	7	6	6	5	25	28	22	25	28	25	37	17	18	23	21	24	19	19	13	31	4	2	2	17.2	37.2
26-Jan-06	2	3	4	5	4	12	9	14	17	7	4	4	4	4	5	6	7	7	5	10	5	3	3	6	6.2	16.5
27-Jan-06	3	6	4	2	5	4	11	11	15	14	14	12	14	11	9	13	21	21	27	16	24	22	27	28	13.8	28.4
28-Jan-06	19	22	20	23	23	19	18	26	23	19	14	14	12	14	13	11	16	17	13	11	12	17	20	15	17.0	25.6
29-Jan-06	13	16	15	22	16	13	15	16	20	13	6	4	2	2	2	5	11	38	11	13	18	14	4	4	12.1	38.2
30-Jan-06	3	2	2	2	4	3	24	24	5	5	5	7	7	6	6	8	16	15	18	25	17	16	7	9.7	25.1	
31-Jan-06	16	15	11	19	11	11	19	27	23	23	22	14	14	11	10	16	22	28	30	22	30	26	10	17	18.5	29.7
Hourly Avg	12.9	13.5	12.9	12.7	11.7	12.7	14.7	15.9	15.8	14.8	13.2	13.6	12.7	11.9	11.4	13.3	16.9	17.3	16.5	15.8	18.7	16.3	15.1	13.4		
Hourly Max	57.1	33.0	29.4	27.2	26.0	25.8	33.1	29.6	31.5	35.0	28.0	57.1	46.9	31.4	25.5	24.9	35.8	38.2	31.0	40.1	36.4	29.8	35.7	36.0		

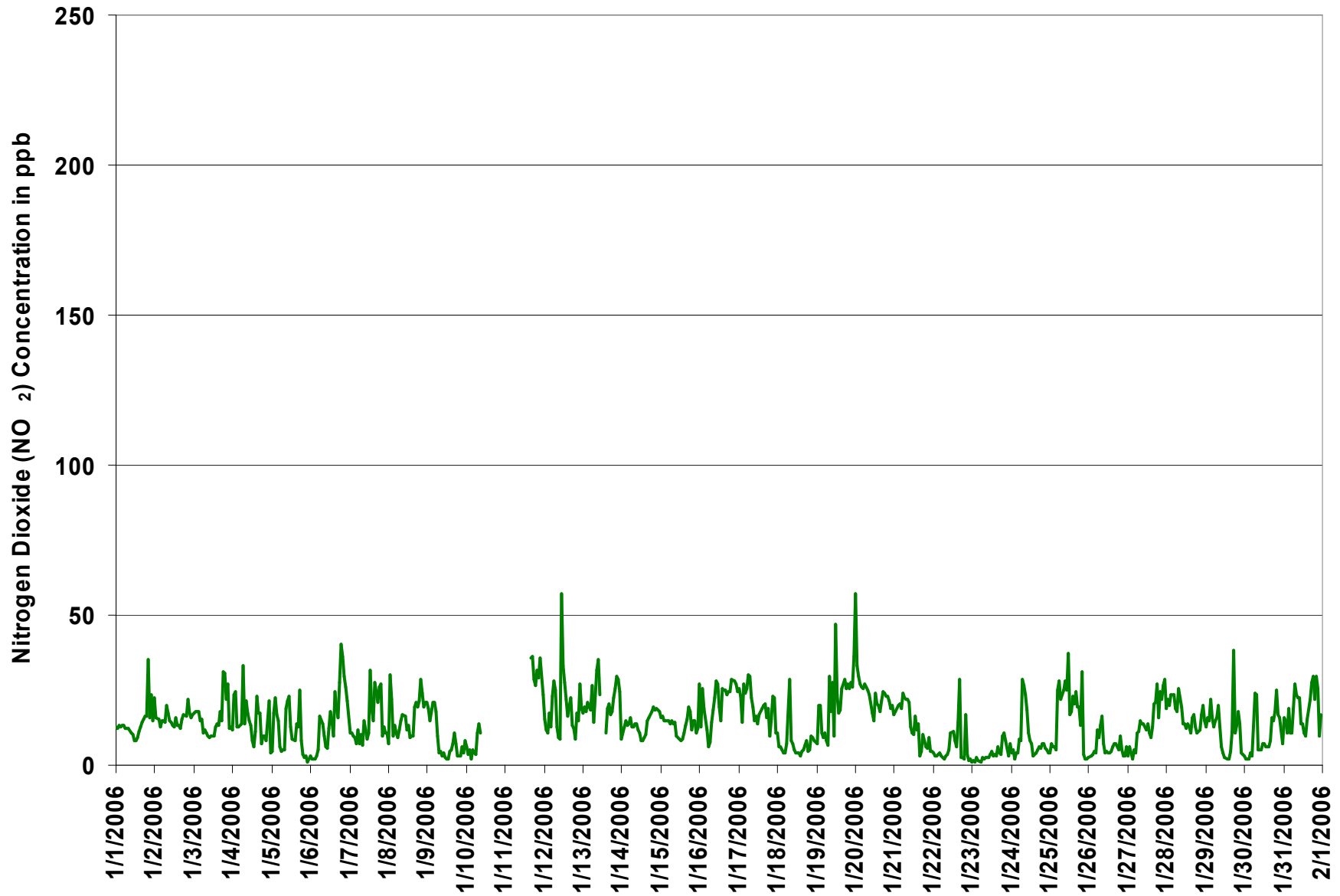
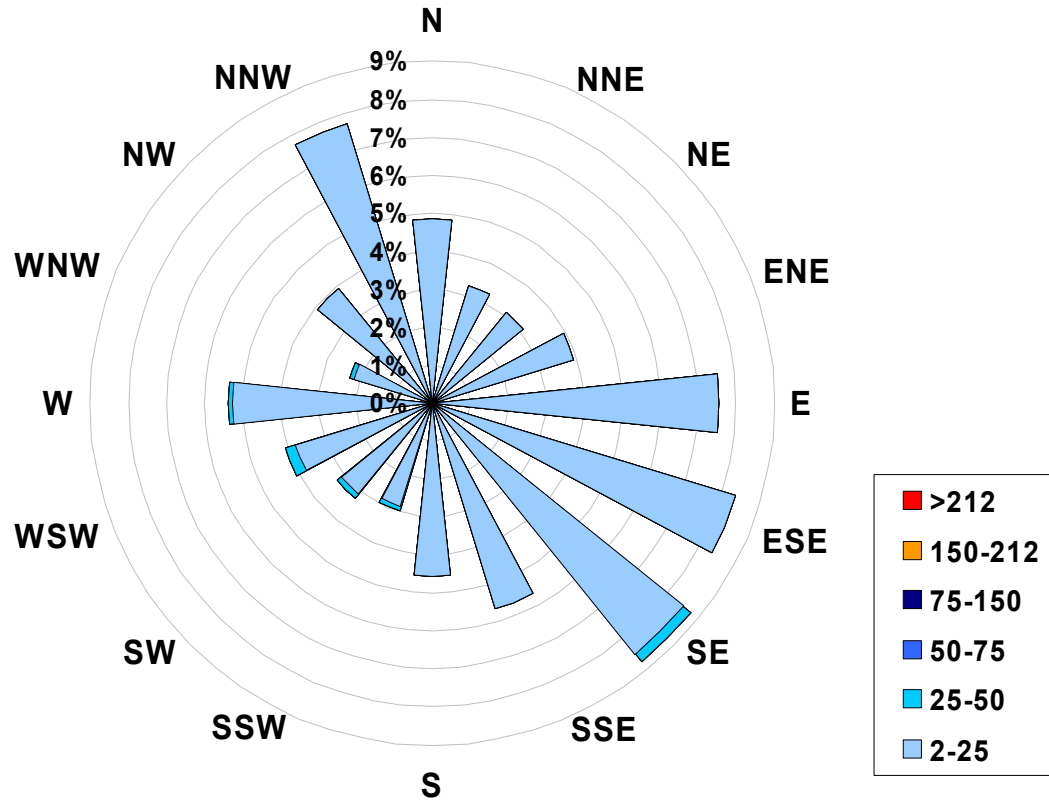


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 5%

Frequency Distribution of NO ₂ in ppb			
Range			Frequency (hrs)
2.0	<	25	704
25	to	50	25
50	to	75	1
75	to	150	1
150	to	212	0
	>	212	0
Total Non-Zero Values			731

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

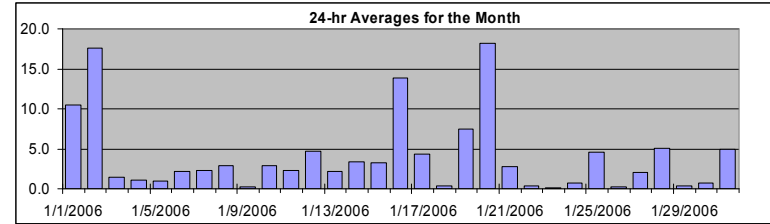
Nitric Oxide (NO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Guideline Limit:
 Summary

	1-hr	na	ppb	24-hr	na	ppb
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Maximum 1-hr Average:	81.2	ppb	16-Jan	11:00 12:00
Maximum 24-hr Average:	18.2	ppb	20-Jan	



AIC Time:	0 hrs	Operational Time:	731 hrs
Calibration Time:	13 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	38.9	20.3	3.8
	0.3	0.1	0.0
	5	1	0.0
	4.0	ppb	0.3
	ppb		ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Jan-06	6	5	2	7	4	3	1	2	4	7	10	11	13	15	16	14	13	15	22	22	14	12	17	14	10.5	22.5
2-Jan-06	23	14	18	18	12	14	13	21	22	14	23	36	38	46	30	23	21	14	12	1	1	3	4	0	17.5	45.8
3-Jan-06	1	3	1	0	0	0	0	0	0	0	1	3	4	5	3	0	0	2	3	0	2	0	0	0	1.4	5.2
4-Jan-06	0	1	3	0	0	0	6	0	2	1	3	5	2	1	1	2	0	0	0	0	0	0	0	0	1.1	5.9
5-Jan-06	0	0	3	0	0	0	0	0	0	0	2	3	5	2	2	3	1	2	0	0	0	0	0	0	0.9	4.8
6-Jan-06	0	0	0	0	0	0	0	0	0	0	2	2	3	1	2	0	0	3	13	20	5	0	0	0	2.1	20.1
7-Jan-06	0	0	0	0	0	0	0	0	0	0	2	3	3	35	10	1	0	0	0	1	0	0	0	0	2.3	34.6
8-Jan-06	0	1	0	0	0	0	0	0	2	5	7	11	5	5	2	5	4	1	7	7	2	3	4	0	2.9	11.0
9-Jan-06	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
10-Jan-06	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	26	7	4	8	4	1	1	1	1	2.9	26.2
11-Jan-06	3	1	1	1	1	1	2	2	1	9	8	C	C	C	C	C	7	4	0	0	0	0	1	0	2.3	8.7
12-Jan-06	0	0	0	0	0	0	0	0	0	0	44	38	15	11	5	1	0	0	0	0	0	0	0	0	4.7	44.0
13-Jan-06	0	0	0	0	0	0	1	0	6	11	4	C	C	C	4	5	3	1	0	0	0	6	4	0	2.2	11.5
14-Jan-06	0	0	0	0	0	0	0	0	0	2	6	7	7	7	7	6	5	1	3	7	7	10	4	2	3.4	9.6
15-Jan-06	0	0	0	0	0	0	0	0	0	3	7	9	9	10	11	12	6	4	4	0	1	1	0	0	3.3	11.7
16-Jan-06	10	0	1	0	0	0	0	0	0	1	38	81	45	24	28	37	30	12	3	1	11	5	4	1	13.9	81.2
17-Jan-06	1	0	0	2	1	1	2	4	3	6	8	13	20	17	12	5	0	0	0	0	0	0	0	0	4.3	19.6
18-Jan-06	0	0	0	0	0	0	0	2	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	1.6
19-Jan-06	0	0	0	0	0	0	0	0	4	3	16	8	28	28	19	16	16	17	4	3	2	5	2	9	7.5	28.1
20-Jan-06	33	39	42	51	15	12	26	36	20	17	15	17	35	29	19	13	11	4	3	1	1	1	0	0	18.2	50.7
21-Jan-06	0	0	0	0	0	3	6	6	7	5	8	8	8	7	6	1	0	0	0	0	0	0	0	0	2.7	8.0
22-Jan-06	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0.3	1.7
23-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
24-Jan-06	0	0	0	0	0	0	0	1	1	2	5	4	3	1	0	0	0	0	0	0	0	0	0	0	0.8	5.4
25-Jan-06	0	0	0	0	0	0	1	0	0	3	8	42	8	13	17	8	7	0	0	0	1	0	0	0	4.6	41.9
26-Jan-06	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0.3	1.1
27-Jan-06	0	0	0	0	0	0	0	0	0	0	2	3	7	5	5	8	7	2	2	0	3	1	1	2	2.0	7.7
28-Jan-06	0	0	0	1	3	0	0	9	32	10	14	15	10	10	6	3	3	1	0	0	0	0	0	0	5.0	32.2
29-Jan-06	0	0	0	1	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.2
30-Jan-06	0	0	0	0	0	0	0	0	0	0	0	1	4	3	2	2	1	0	0	0	2	0	0	0	0.7	3.8
31-Jan-06	0	0	0	0	0	0	0	1	9	20	27	9	11	7	7	8	13	4	2	0	0	0	0	0	4.9	27.2
Hourly Avg	2.6	2.2	2.3	2.7	1.2	1.2	1.9	2.7	3.7	3.8	7.1	11.8	11.0	10.6	8.0	7.2	5.3	2.9	2.2	2.1	2.3	1.8	1.4	1.1		
Hourly Max	32.7	39.1	41.7	50.7	14.5	14.1	25.7	35.8	32.2	19.6	38.4	81.2	44.7	45.8	30.2	37.4	29.7	17.1	21.7	22.5	20.1	12.2	16.9	14.0		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

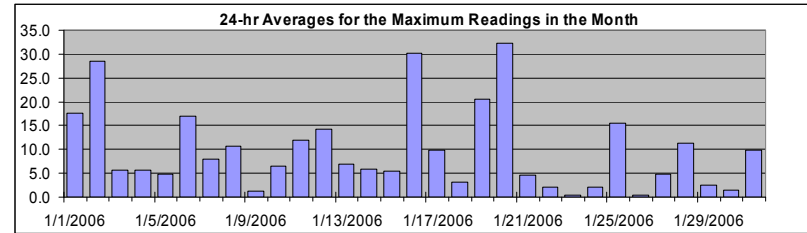
Nitric Oxide (NO)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	182.2	ppb	12-Jan	11:00 12:00
Maximum 24-hr Value:	32.3	ppb	20-Jan	

AIC Time:	0 hrs	Operational Time:	731 hrs						
Calibration Time:	13 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	88.7	47.1	10.5	2.0	0.1	0.0	0.0	9.7 ppb	2.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	11	6	4	14	7	5	3	3	5	10	12	14	15	17	20	17	21	18	34	36	40	17	66	24	17.6	66.2	
2-Jan-06	62	34	34	25	20	21	22	41	34	18	38	58	43	55	47	35	31	21	22	4	5	6	9	1	28.5	62.3	
3-Jan-06	8	12	5	2	1	0	0	0	1	1	2	6	7	7	7	4	4	0	27	12	9	17	0	1	5.6	27.1	
4-Jan-06	0	18	16	0	0	4	42	0	7	3	4	8	4	2	5	10	5	1	1	0	0	0	3	0	5.6	42.1	
5-Jan-06	0	9	26	0	0	0	0	0	0	3	9	14	10	3	3	4	4	26	1	1	1	0	0	0	4.7	26.4	
6-Jan-06	0	0	0	0	0	0	0	1	0	0	1	9	11	9	2	38	2	1	113	109	87	19	4	1	17.0	113.4	
7-Jan-06	0	0	0	0	0	0	0	2	0	2	5	6	7	121	21	6	9	2	2	9	0	0	1	0	8.0	121.0	
8-Jan-06	0	14	0	0	0	0	0	6	1	4	7	11	18	7	7	4	15	15	6	49	50	15	12	13	10.6	49.9	
9-Jan-06	6	3	0	9	3	2	1	0	0	0	0	1	1	1	3	1	0	0	0	0	0	0	0	0	1.3	8.7	
10-Jan-06	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	33	24	19	24	18	1	1	1	1	6.5	33.3	
11-Jan-06	16	1	1	2	5	2	4	8	3	78	37	C	C	C	C	C	28	17	0	1	3	2	17	0	11.9	78.5	
12-Jan-06	0	0	0	2	0	1	0	1	0	0	1	182	66	45	25	7	4	0	0	0	0	5	0	0	14.2	182.2	
13-Jan-06	0	0	0	1	0	0	6	0	29	47	12	C	C	C	5	10	5	2	2	6	1	9	8	1	7.0	47.4	
14-Jan-06	0	0	0	0	0	1	2	0	0	4	9	9	8	8	9	7	6	3	12	22	14	13	6	9	6.0	22.1	
15-Jan-06	1	1	0	0	0	1	1	2	3	6	8	12	11	12	15	17	12	7	11	1	2	3	0	1	5.4	17.4	
16-Jan-06	47	0	8	0	0	0	0	5	6	7	134	144	69	29	48	52	64	22	17	3	34	18	12	6	30.2	144.0	
17-Jan-06	6	1	0	13	6	4	21	22	7	10	11	24	19	24	27	16	20	1	0	0	0	0	0	0	9.8	26.6	
18-Jan-06	0	0	0	0	0	0	0	57	1	1	1	2	2	2	1	1	1	1	1	0	0	0	0	0	3.1	57.0	
19-Jan-06	0	2	2	0	0	0	0	1	22	15	82	12	87	54	29	20	26	31	13	10	4	23	11	51	20.6	86.6	
20-Jan-06	77	79	65	60	29	26	49	80	49	32	20	20	45	36	28	19	16	7	12	7	8	6	1	1	32.3	80.0	
21-Jan-06	0	0	1	1	0	7	10	7	12	9	9	9	12	11	7	6	1	1	1	0	0	2	0	0	4.5	12.4	
22-Jan-06	0	0	0	0	0	1	0	1	0	1	1	3	4	2	2	3	16	0	1	0	11	1	0	0	2.0	16.1	
23-Jan-06	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0.3	1.1	
24-Jan-06	0	0	0	0	0	0	0	10	4	4	10	9	5	4	1	1	0	0	0	0	0	0	0	0	2.1	10.1	
25-Jan-06	0	0	0	0	0	5	7	1	9	23	89	141	14	19	23	12	16	2	0	0	8	0	0	0	15.5	140.7	
26-Jan-06	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.5	1.1	
27-Jan-06	0	0	0	0	0	0	0	0	0	0	4	6	8	9	6	10	9	5	11	0	9	3	14	17	4.7	17.1	
28-Jan-06	0	3	1	16	17	2	2	56	50	23	22	22	14	14	10	4	4	3	1	1	0	2	2	1	11.3	55.7	
29-Jan-06	0	2	0	7	1	0	1	4	26	3	1	1	1	0	0	1	2	10	0	0	0	0	0	0	2.6	26.2	
30-Jan-06	0	0	0	0	0	0	1	1	0	1	1	5	5	4	3	2	1	1	0	0	7	1	0	0	1.5	7.0	
31-Jan-06	0	0	0	0	0	0	7	14	26	30	41	18	23	11	8	12	32	6	7	0	1	0	0	0	9.8	41.0	
Hourly Avg	7.6	6.1	5.3	5.0	2.9	2.7	5.9	10.4	9.6	10.9	19.1	26.7	18.3	18.2	12.6	11.8	12.2	7.2	10.4	9.4	9.6	5.1	5.7	4.2			
Hourly Max	77.0	79.1	65.4	60.2	29.2	26.2	49.2	80.0	50.4	78.5	134.2	182.2	86.6	121.0	47.8	51.7	64.1	30.9	113.4	109.2	87.1	23.2	66.2	50.5			

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

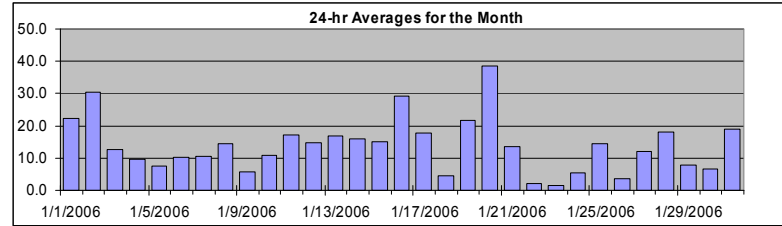
Monitoring Dates: January 1, 2006 to February 1, 2006

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	97.2	ppb	16-Jan	11:00 12:00
Maximum 24-hr Average:	38.6	ppb	20-Jan	



AIC Time:	0 hrs	Operational Time:	731 hrs						
Calibration Time:	13 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	59.4	36.3	18.8	11.4	4.5	1.1	0.2	13.9 ppb	11.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jan-06	17	17	15	19	17	16	13	14	16	17	20	19	21	24	26	25	27	31	37	37	28	27	29	27	22.4	37.3	
2-Jan-06	36	27	30	30	25	27	26	33	37	28	35	47	48	57	42	35	31	27	26	17	17	19	19	15	30.5	56.9	
3-Jan-06	16	20	16	14	14	13	9	9	8	8	9	11	12	16	16	14	12	11	12	22	9	13	10	10	12.7	22.3	
4-Jan-06	10	11	22	11	12	10	21	12	17	14	15	14	7	4	5	13	7	7	5	4	3	2	6	3	9.8	21.9	
5-Jan-06	3	11	21	15	7	3	4	4	3	7	15	14	14	9	10	12	10	15	2	1	1	0	0	7.6	21.3		
6-Jan-06	0	1	0	0	1	2	5	7	7	4	5	7	8	12	9	11	10	9	12	30	42	30	20	13	10.2	41.8	
7-Jan-06	10	9	8	8	6	7	6	6	5	11	9	10	9	51	23	7	8	11	6	15	6	7	7	7	10.4	51.1	
8-Jan-06	5	14	12	7	8	8	8	8	9	15	17	17	21	13	13	10	19	23	14	21	22	19	19	23	14.4	23.0	
9-Jan-06	20	18	14	19	18	12	3	2	2	2	1	1	1	1	1	2	3	4	2	1	1	3	3	4	5.8	20.0	
10-Jan-06	3	2	2	2	2	1	1	2	5	5	C	C	C	C	C	C	36	16	18	33	25	11	15	14	11	10.7	35.7
11-Jan-06	20	17	17	18	17	11	13	11	7	14	12	C	C	C	C	C	34	29	17	18	18	20	19	14	17.1	33.9	
12-Jan-06	11	8	7	9	8	12	10	10	5	5	64	59	30	25	17	16	9	8	4	10	7	8	11	14.8	63.5		
13-Jan-06	6	11	10	11	9	7	18	8	28	30	17	C	C	C	13	19	19	16	17	17	20	35	31	14	16.9	34.5	
14-Jan-06	7	10	13	12	13	14	11	13	14	14	17	16	15	15	15	15	17	16	19	24	25	27	22	18	15.9	27.4	
15-Jan-06	16	16	15	14	15	13	13	14	14	15	16	17	16	18	20	21	18	20	19	11	14	13	9	5	15.1	21.4	
16-Jan-06	24	6	14	10	9	5	6	9	9	15	55	97	60	37	45	58	52	33	25	20	37	29	27	19	29.2	97.2	
17-Jan-06	20	17	11	14	17	18	21	22	21	22	20	18	25	35	32	29	20	11	12	7	4	8	15	9	17.9	34.5	
18-Jan-06	7	6	5	4	3	3	4	7	6	4	4	4	5	4	3	4	4	5	5	3	4	7	6	5	4.6	7.4	
19-Jan-06	6	8	8	7	5	8	5	5	20	16	28	15	42	42	32	31	36	43	28	25	26	29	26	33	21.8	42.5	
20-Jan-06	61	64	66	75	37	36	50	59	43	36	30	31	54	46	35	28	30	25	24	21	20	20	18	19	38.6	74.8	
21-Jan-06	16	16	18	19	19	24	28	27	28	21	19	18	16	16	16	8	1	1	2	3	2	2	2	2	13.5	27.9	
22-Jan-06	1	2	1	2	1	1	1	1	1	2	2	4	8	6	4	8	3	1	1	1	1	0	0	0	2.2	8.0	
23-Jan-06	0	0	0	0	0	0	0	1	1	1	1	2	2	1	2	3	2	1	4	7	4	1	2	1.6	7.1		
24-Jan-06	3	3	1	2	2	3	4	13	16	15	17	12	9	4	1	1	2	3	2	3	4	3	3	3	5.4	17.2	
25-Jan-06	3	4	4	4	3	5	10	10	9	20	22	61	21	29	35	24	27	15	15	11	15	1	1	1	14.6	61.0	
26-Jan-06	1	1	1	2	2	5	4	6	9	3	2	4	4	4	5	6	7	4	4	5	3	2	2	3	3.7	9.0	
27-Jan-06	2	2	1	1	3	2	5	9	11	9	12	13	18	13	13	18	23	20	22	11	23	19	17	19	12.0	23.3	
28-Jan-06	15	14	15	16	19	13	12	26	51	26	26	26	19	21	17	13	16	15	11	10	9	12	17	12	17.9	51.1	
29-Jan-06	11	12	13	17	14	12	12	13	19	11	4	1	1	1	1	3	6	7	5	6	8	9	1	1	7.8	18.8	
30-Jan-06	2	1	1	1	2	2	4	11	4	3	4	4	9	8	7	7	7	11	10	10	20	14	10	6	6.6	20.2	
31-Jan-06	9	11	9	11	10	10	13	14	29	39	45	18	21	15	14	20	30	26	26	18	23	19	8	13	18.9	44.8	
Hourly Avg	11.6	11.6	11.9	12.0	10.2	9.7	10.9	12.4	14.6	14.0	16.2	20.2	19.4	19.0	16.6	16.5	16.6	15.1	13.6	13.0	14.0	13.4	12.0	10.4			
Hourly Max	60.6	64.2	66.2	74.8	36.7	35.7	49.5	58.7	51.1	39.4	55.1	97.2	59.7	56.9	45.1	58.2	51.7	42.5	36.6	37.3	41.8	34.5	31.3	33.1			

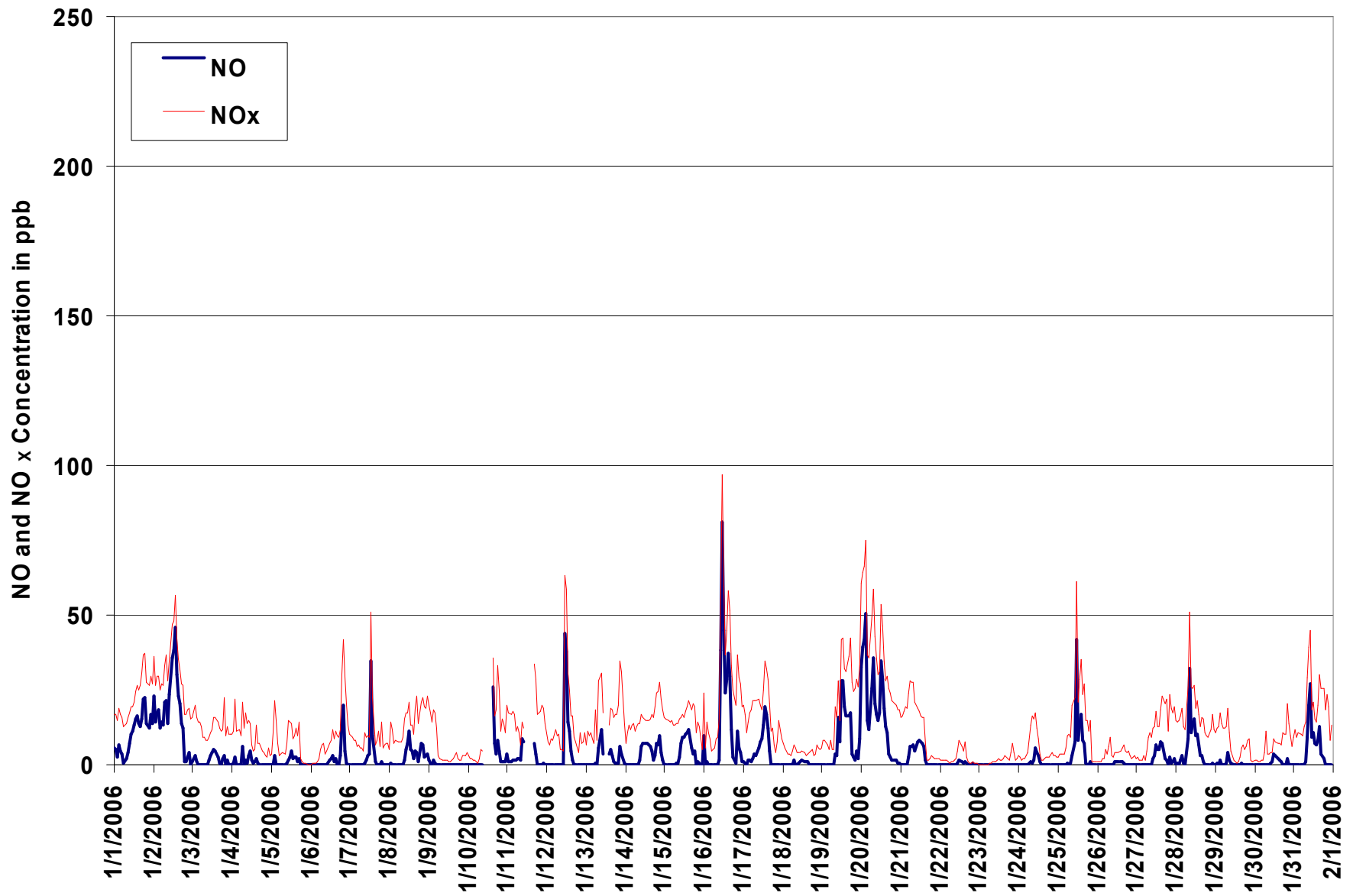


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

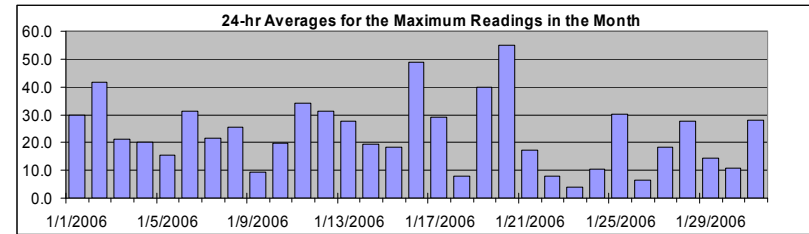
Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	227.1	ppb	12-Jan	11:00 12:00
Maximum 24-hr Value:	55.1	ppb	20-Jan	

AIC Time:	0 hrs	Operational Time:	731 hrs						
Calibration Time:	13 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	120.1	67.3	30.1	17.0	8.1	3.0	1.6	23.3 ppb	17.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	23	19	16	26	20	19	15	15	17	20	22	23	24	27	31	29	34	32	48	50	55	31	85	34	29.8	84.8
2-Jan-06	76	46	45	36	30	34	36	58	51	32	48	68	52	67	59	47	42	34	36	20	26	22	23	17	41.8	75.7
3-Jan-06	25	29	22	18	16	15	11	12	11	10	11	16	17	21	21	16	22	15	58	43	31	41	13	14	21.0	57.6
4-Jan-06	11	41	39	13	13	18	70	14	28	20	18	22	12	8	17	33	23	18	7	10	10	8	23	4	20.0	70.4
5-Jan-06	4	27	45	17	15	6	5	5	4	22	29	37	23	12	12	18	15	52	8	4	3	3	2	2	15.4	52.1
6-Jan-06	3	1	1	1	3	5	17	15	10	6	6	20	29	25	12	63	20	17	142	136	120	46	30	23	31.3	141.6
7-Jan-06	11	11	9	9	7	13	7	12	7	16	16	14	18	147	37	21	36	22	28	35	10	13	11	11	21.6	146.7
8-Jan-06	7	41	22	10	13	11	9	18	15	18	22	22	30	16	17	14	33	36	26	68	71	33	30	32	25.6	71.4
9-Jan-06	23	21	16	27	23	20	10	4	5	3	5	3	3	3	6	6	7	11	7	3	3	6	4	8	9.4	26.8
10-Jan-06	6	3	5	2	5	4	3	11	14	11	C	C	C	C	C	59	41	44	55	49	15	22	18	12	19.9	58.6
11-Jan-06	46	19	20	21	26	20	26	21	18	80	53	C	C	C	C	C	61	51	27	24	33	28	51	22	34.0	79.7
12-Jan-06	13	9	8	18	11	22	27	24	11	8	8	227	95	71	46	21	25	11	10	6	16	13	30	17	31.2	227.1
13-Jan-06	16	18	17	21	18	16	31	13	57	74	34	C	C	C	15	28	25	19	20	29	27	38	37	26	27.5	74.1
14-Jan-06	9	13	15	14	14	16	15	14	14	15	21	20	16	17	17	16	19	19	29	39	32	30	25	27	19.4	38.9
15-Jan-06	17	17	15	15	15	15	14	17	16	17	18	21	18	21	25	29	24	27	28	13	17	17	12	13	18.4	28.7
16-Jan-06	63	13	33	18	12	6	7	19	24	25	154	159	84	43	72	75	85	44	40	28	56	44	36	31	48.8	159.5
17-Jan-06	31	24	14	41	30	30	51	43	29	29	25	39	33	40	46	36	40	16	19	10	15	23	24	11	29.1	50.9
18-Jan-06	11	6	6	5	4	4	7	39	8	8	6	6	6	6	4	6	5	6	8	5	5	10	9	8	7.9	38.7
19-Jan-06	7	22	21	11	9	11	8	8	50	32	104	21	120	76	46	35	51	57	38	36	29	50	38	83	40.0	119.9
20-Jan-06	117	110	93	85	52	49	74	104	72	54	37	34	68	56	46	37	38	32	36	30	30	27	20	21	55.1	117.3
21-Jan-06	17	17	20	21	19	29	31	29	33	25	21	20	22	25	18	19	3	5	11	6	6	10	5	4	17.3	33.0
22-Jan-06	4	3	3	3	4	3	3	3	4	4	6	13	16	10	7	18	45	3	3	2	28	4	2	2	8.0	44.6
23-Jan-06	1	2	1	3	1	1	4	2	3	3	3	4	6	3	5	3	6	4	3	10	11	8	3	7	4.1	10.8
24-Jan-06	4	4	2	3	4	9	8	38	31	27	26	18	12	10	4	4	5	6	7	7	5	5	4	10.4	37.9	
25-Jan-06	4	7	5	6	5	30	34	23	33	51	72	172	31	37	43	32	40	21	20	13	37	4	2	2	30.2	171.9
26-Jan-06	2	3	3	4	3	12	9	14	17	7	5	5	6	5	5	7	8	8	4	10	5	3	3	5	6.5	16.8
27-Jan-06	2	6	3	2	5	4	10	12	14	14	18	19	22	20	15	22	30	24	38	16	32	25	41	46	18.3	45.6
28-Jan-06	19	25	22	39	37	20	19	79	74	42	35	35	25	27	23	14	19	20	13	12	12	18	21	16	27.7	79.1
29-Jan-06	13	18	15	28	17	13	16	19	42	14	7	5	4	2	2	5	13	48	11	13	18	14	3	4	14.4	48.1
30-Jan-06	2	2	2	2	3	2	25	24	5	6	6	11	12	9	10	8	9	17	15	19	31	17	16	7	10.9	31.5
31-Jan-06	16	15	11	19	11	11	25	38	48	52	60	31	36	22	18	26	54	32	36	22	31	26	10	17	27.8	60.5
Hourly Avg	19.5	19.1	17.7	17.4	14.3	15.1	20.2	24.1	24.7	24.0	29.9	38.8	30.0	29.5	23.3	24.9	28.4	24.2	26.7	24.8	26.5	20.6	20.4	17.1		
Hourly Max	117.3	109.8	92.5	85.5	51.6	48.9	74.1	104.4	73.9	79.7	154.1	227.1	119.9	146.7	71.5	74.8	84.9	57.2	141.6	135.8	120.2	49.7	84.8	82.5		

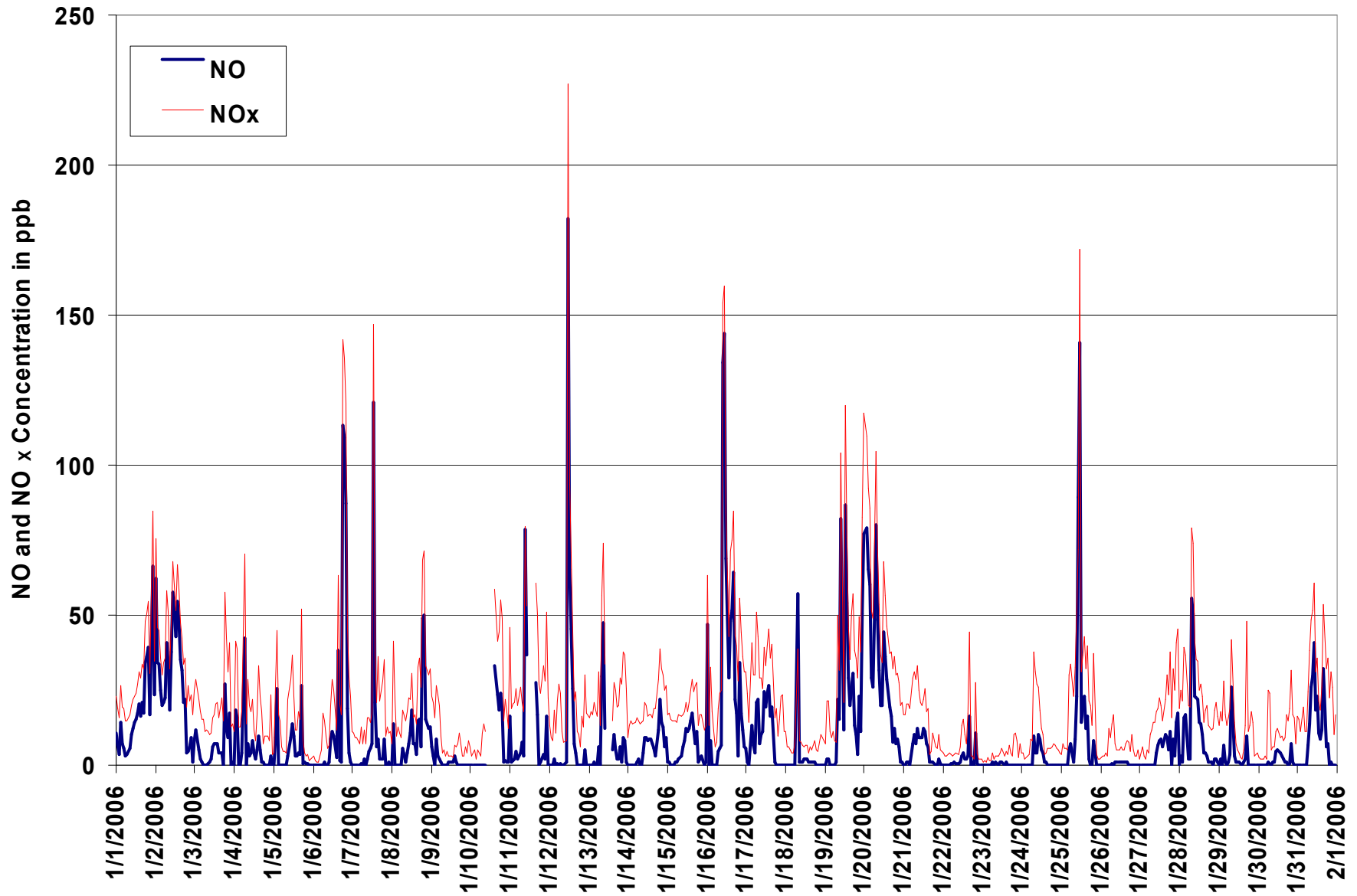


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

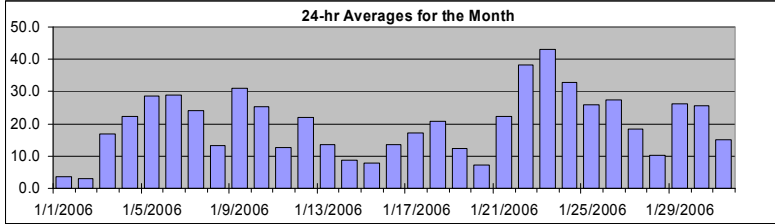
Monitoring Dates: January 1, 2006 to February 1, 2006

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	46.5 ppb	23-Jan	17:00 18:00
Maximum 24-hr Average:	43.1 ppb	23-Jan	

AIC Time:	0 hrs	Operational Time:	737 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.9	40.6	29.4	18.6	9.4	3.0	2.0	20.0 ppb	18.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00			22:00 23:00	23:00 0:00
1-Jan-06	3	2	2	2	2	2	2	2	2	2	2	5	7	8	8	7	6	3	2	3	3	2	2	2	2	3.5	8.3
2-Jan-06	2	2	2	2	2	2	2	2	2	2	2	4	4	5	5	5	4	2	4	2	3	3	2	1	5	2.9	5.0
3-Jan-06	7	4	5	9	7	9	16	19	20	20	21	22	23	24	22	20	21	21	23	14	21	18	18	17	16.7	23.6	
4-Jan-06	18	20	7	15	15	15	13	14	10	12	15	19	27	29	29	23	29	30	31	33	34	34	29	32	22.2	34.4	
5-Jan-06	33	23	7	12	29	37	36	33	33	29	20	21	24	23	20	20	16	40	42	43	42	42	42	43	28.6	43.1	
6-Jan-06	42	41	41	41	41	41	36	33	32	36	35	32	31	22	29	27	27	27	26	16	10	4	8	15	28.9	42.4	
7-Jan-06	19	19	21	21	23	22	23	22	24	19	20	21	23	18	19	31	30	25	33	23	32	32	29	29	24.1	32.9	
8-Jan-06	30	21	20	23	18	15	14	13	12	8	11	10	9	16	19	19	9	5	12	11	11	6	5	3	13.4	30.1	
9-Jan-06	4	7	14	9	10	19	37	36	39	39	40	40	40	41	40	39	37	36	38	38	38	35	35	34	31.0	40.8	
10-Jan-06	34	36	36	36	36	34	35	33	26	28	28	29	31	M	M	5	12	12	4	11	24	19	20	24	25.2	36.2	
11-Jan-06	14	14	14	13	11	9	7	9	12	11	13	9	8	M	M	30	12	8	15	13	14	12	13	18	12.7	30.2	
12-Jan-06	20	24	26	22	23	20	21	20	25	27	29	19	13	18	17	16	17	22	24	29	24	25	26	21	22.1	29.1	
13-Jan-06	25	19	21	21	21	21	10	19	6	9	12	18	18	C	C	C	13	11	9	9	7	3	3	12	13.7	25.2	
14-Jan-06	18	14	11	12	8	12	11	8	7	8	9	11	12	13	13	12	8	6	4	3	2	2	3	3	8.7	17.8	
15-Jan-06	4	4	4	5	5	6	6	6	4	5	8	9	10	9	9	9	9	4	4	10	5	8	16	26	7.7	26.3	
16-Jan-06	15	28	18	19	21	26	25	20	20	16	12	8	9	12	11	8	4	3	7	11	4	7	9	13	13.7	28.1	
17-Jan-06	13	14	20	22	13	11	9	8	6	8	13	16	14	11	11	12	17	27	27	36	40	35	12	15	17.1	39.9	
18-Jan-06	14	13	14	15	17	18	17	17	18	20	22	24	25	27	29	27	25	23	23	24	23	20	21	21	20.7	28.7	
19-Jan-06	20	18	17	16	19	16	19	19	11	13	13	17	16	15	16	14	8	3	3	6	4	4	4	3	12.2	19.7	
20-Jan-06	5	4	4	4	5	3	3	3	3	6	10	12	11	12	13	14	10	7	7	8	8	8	8	8	7.2	13.5	
21-Jan-06	10	10	9	14	13	7	5	4	5	10	17	20	22	24	26	34	40	39	38	36	37	38	39	39	22.4	39.8	
22-Jan-06	39	39	38	38	39	40	40	40	39	39	38	37	34	35	39	35	40	40	39	39	38	39	38	39	38.3	40.1	
23-Jan-06	40	41	41	42	42	43	44	44	44	45	46	46	45	45	46	46	45	46	44	41	37	39	42	39	43.1	46.5	
24-Jan-06	37	37	40	40	37	34	30	21	16	17	19	22	27	34	40	40	39	37	37	37	35	37	37	38	32.8	40.1	
25-Jan-06	37	35	35	35	34	32	28	25	27	17	16	10	21	17	15	17	11	19	18	25	23	41	42	40	25.9	42.3	
26-Jan-06	40	38	36	34	34	33	35	32	26	25	26	25	24	25	24	23	22	23	23	21	22	23	23	23	27.4	40.1	
27-Jan-06	25	25	27	28	27	29	25	21	18	20	18	20	19	22	23	20	14	10	7	14	5	7	7	8	18.3	28.5	
28-Jan-06	8	8	8	7	5	9	8	3	1	5	8	10	13	13	14	16	13	11	14	14	14	15	15	12	10.3	15.9	
29-Jan-06	10	9	7	5	8	9	8	9	10	23	35	41	42	43	43	40	37	35	38	35	32	32	41	40	26.3	42.8	
30-Jan-06	38	39	39	38	35	36	32	25	28	26	26	26	21	23	23	23	23	18	18	16	8	14	19	22	25.6	38.8	
31-Jan-06	19	16	17	17	16	16	12	11	4	3	6	14	15	20	23	21	13	8	8	16	12	17	31	24	14.9	31.2	
Hourly Avg	20.8	20.1	19.4	19.9	19.8	20.2	19.6	18.5	17.2	17.7	19.2	20.0	20.6	21.6	22.3	21.6	19.7	18.7	20.0	20.5	19.7	20.1	20.6	21.6			
Hourly Max	42.4	41.3	41.4	41.8	42.1	43.3	44.4	44.5	44.1	44.7	45.9	46.1	45.1	45.3	45.8	45.7	45.4	46.5	44.5	41.8	43.1	42.3	42.3	42.6			

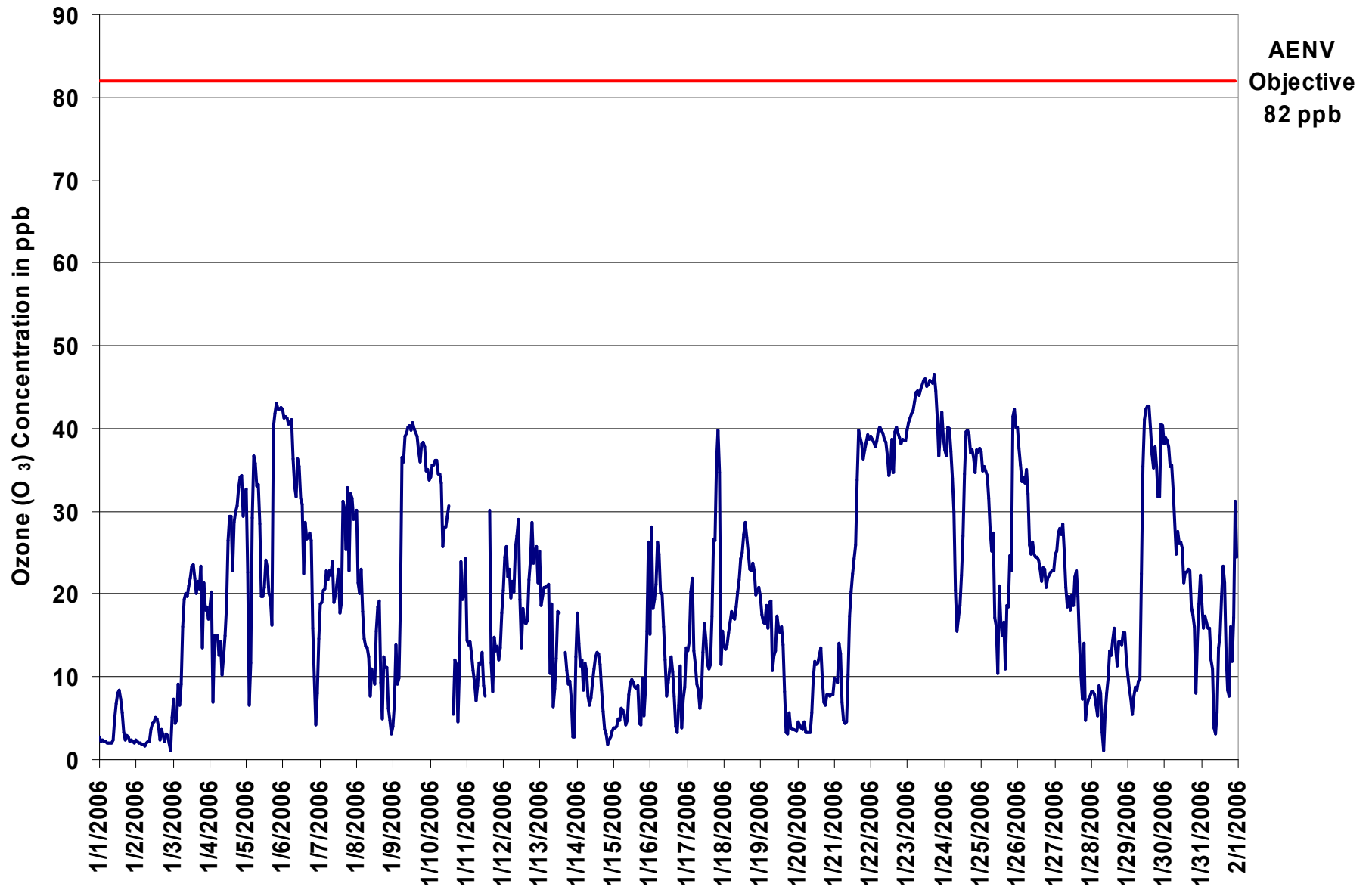


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

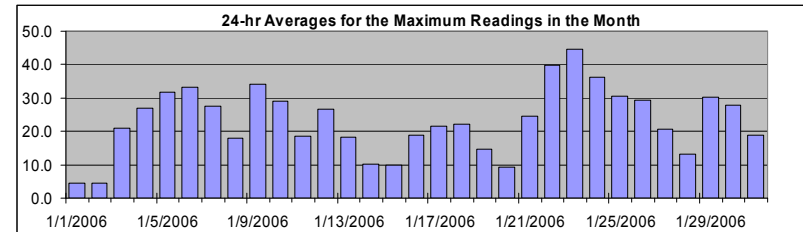
Ozone (O₃)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Value:	48.8	ppb	23-Jan	17:00 18:00
Maximum 24-hr Value:	44.6	ppb	23-Jan	

AIC Time:	0 hrs	Operational Time:	737 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.3	42.3	33.8	22.7	13.0	4.0	2.6	23.1 ppb	22.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	5	3	3	3	3	3	2	2	3	4	7	8	9	9	8	7	4	3	4	4	3	4	4	3	4.4	9.2
2-Jan-06	4	3	3	2	3	2	2	3	3	3	5	5	6	7	6	6	3	13	4	4	4	4	3	8	4.4	13.5
3-Jan-06	12	12	8	13	10	12	19	21	22	21	23	24	29	30	26	24	27	25	29	25	26	23	23	20	20.9	29.6
4-Jan-06	21	24	12	18	19	20	22	17	15	21	19	27	33	32	32	32	35	34	36	36	37	37	35	34	27.0	36.9
5-Jan-06	34	31	15	14	35	38	37	35	34	32	24	23	25	25	24	24	24	27	43	43	44	44	43	43	31.8	44.0
6-Jan-06	43	43	43	42	42	43	42	40	34	37	37	36	37	27	31	31	33	31	31	30	23	8	13	19	33.2	43.1
7-Jan-06	20	20	22	22	23	23	23	24	26	26	24	23	27	27	28	34	33	31	37	34	35	36	33	35	27.6	36.6
8-Jan-06	35	32	25	24	21	15	15	14	14	11	12	12	12	19	20	21	22	8	19	19	23	22	10	6	18.0	35.1
9-Jan-06	11	12	16	16	15	28	41	40	41	41	42	42	41	42	41	42	40	40	40	40	39	37	38	38	34.3	42.0
10-Jan-06	36	37	38	38	37	37	38	36	30	31	31	32	33	M	M	7	24	24	9	21	27	26	23	25	29.1	38.0
11-Jan-06	23	16	18	14	15	12	11	13	15	17	18	15	24	M	M	33	25	16	22	19	17	21	20	25	18.6	32.5
12-Jan-06	22	26	27	26	24	25	28	27	29	29	33	33	27	23	24	21	22	24	27	30	26	27	31	29	26.7	32.5
13-Jan-06	29	26	29	28	24	24	18	21	16	16	16	20	20	C	C	C	19	14	11	11	10	4	4	19	18.2	29.5
14-Jan-06	19	16	14	14	9	13	12	9	7	9	10	12	13	13	15	14	11	7	6	8	2	3	3	4	10.2	18.9
15-Jan-06	4	4	5	5	6	8	6	7	6	7	9	10	10	10	10	10	12	9	8	11	10	16	23	32	9.9	32.3
16-Jan-06	34	32	31	27	27	28	26	23	22	22	19	16	12	16	13	12	5	8	11	16	9	9	13	19	18.9	33.8
17-Jan-06	17	19	25	25	19	18	13	14	9	12	16	19	18	13	12	12	23	34	35	38	45	44	15	20	21.6	44.8
18-Jan-06	15	14	15	16	18	19	19	19	20	22	23	25	26	29	29	28	26	24	26	25	24	23	22	22	22.1	29.4
19-Jan-06	20	20	20	19	20	18	20	20	15	17	20	20	19	20	16	11	6	5	10	6	5	5	5	5	14.8	20.4
20-Jan-06	7	6	5	4	10	5	4	4	4	8	12	13	13	12	14	16	11	10	9	12	12	9	10	10	9.2	16.4
21-Jan-06	11	11	12	17	15	11	6	5	7	16	19	22	24	26	28	41	41	40	40	38	39	39	41	40	24.5	41.3
22-Jan-06	40	40	39	39	40	41	41	40	40	40	40	40	39	37	41	40	41	41	41	41	40	39	39	39	39.8	41.3
23-Jan-06	41	41	42	42	43	44	45	45	45	46	47	47	46	46	46	47	48	49	46	45	40	42	43	42	44.6	48.8
24-Jan-06	40	40	41	41	39	37	33	30	22	26	25	26	30	40	41	41	41	39	39	40	36	40	39	39	36.1	41.5
25-Jan-06	38	37	37	36	36	36	36	34	35	24	25	20	25	20	18	20	15	21	21	29	38	44	44	42	30.5	43.8
26-Jan-06	42	39	38	35	35	37	38	37	31	34	27	26	26	25	25	24	23	25	24	22	23	23	24	24	29.5	42.3
27-Jan-06	26	26	29	28	29	30	29	23	20	21	21	21	20	24	23	23	18	12	12	17	14	10	10	12	20.8	29.7
28-Jan-06	10	10	11	9	11	12	12	8	3	8	10	11	15	15	15	17	16	14	15	15	16	22	28	14	13.2	27.7
29-Jan-06	13	12	9	9	9	10	10	23	21	29	40	43	43	43	44	42	41	41	42	40	39	39	42	42	30.3	43.8
30-Jan-06	40	40	40	39	37	36	36	33	31	27	28	27	23	24	24	23	24	21	21	18	15	16	23	23	27.8	40.1
31-Jan-06	22	18	19	17	16	16	15	13	11	7	9	17	21	22	26	24	24	18	14	14	22	28	33	31	18.9	32.7
Hourly Avg	23.8	22.9	22.4	22.0	22.4	22.6	22.6	21.9	20.5	21.3	22.1	23.0	24.2	24.0	24.5	24.4	23.8	22.7	23.4	24.6	23.9	24.0	23.8	24.6		
Hourly Max	43.1	42.5	43.0	42.3	42.8	44.3	45.3	45.2	44.8	45.8	46.9	47.3	46.2	46.3	46.4	46.7	48.4	48.8	46.3	45.3	44.8	44.3	43.8	43.4		

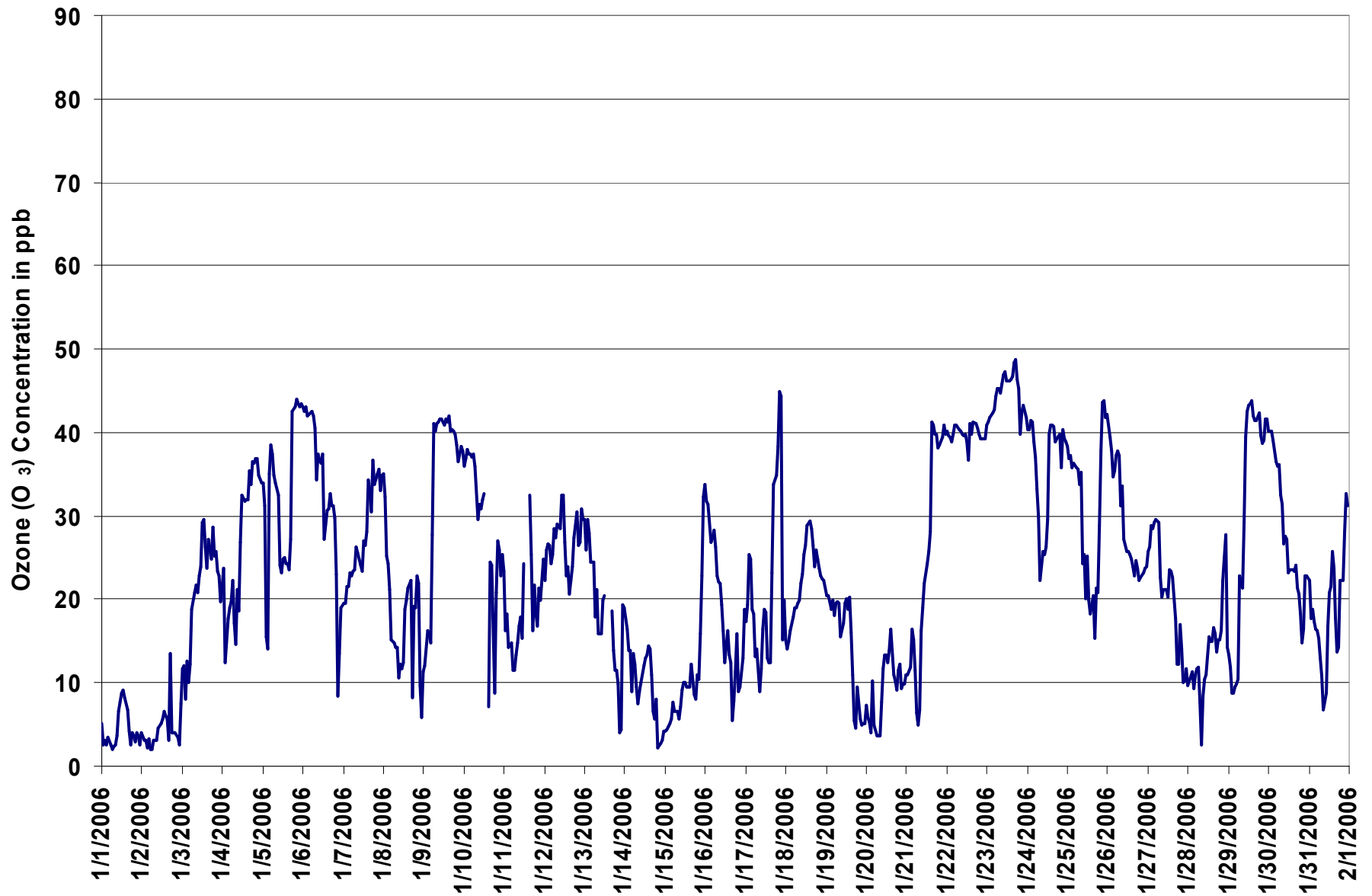
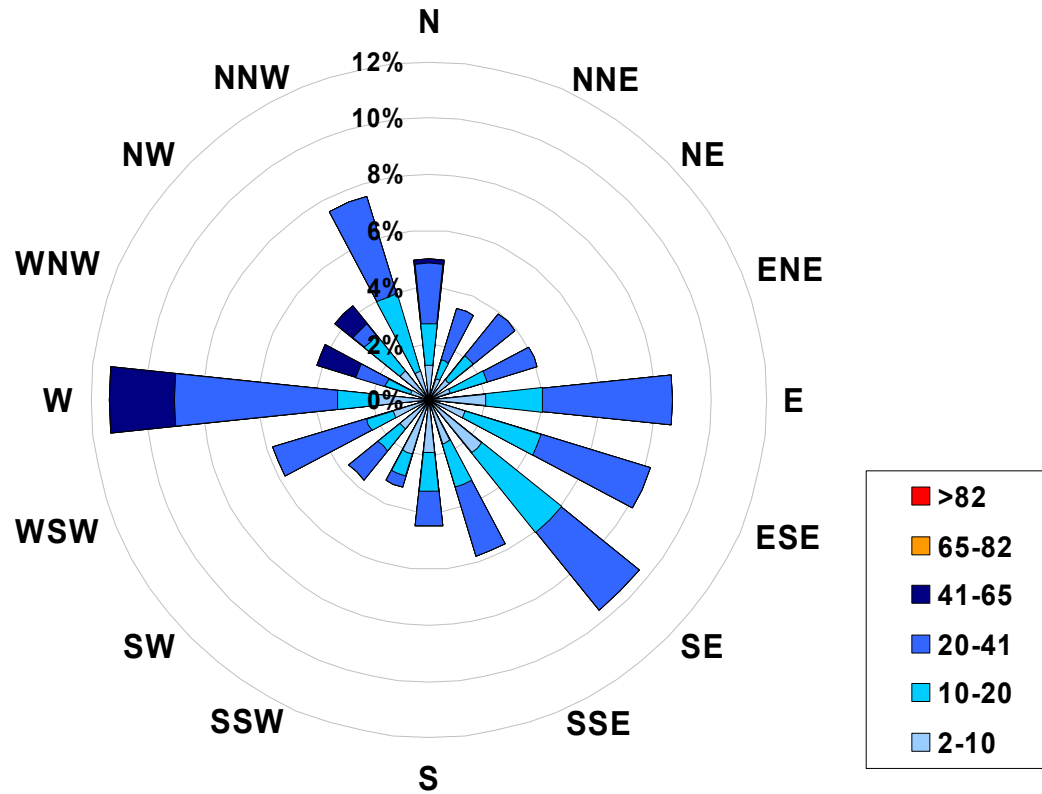


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 5%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		197
10	to 20		205
20	to 41		300
41	to 65		35
65	to 82		0
	> 82		0
Total Non-Zero Values			737

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

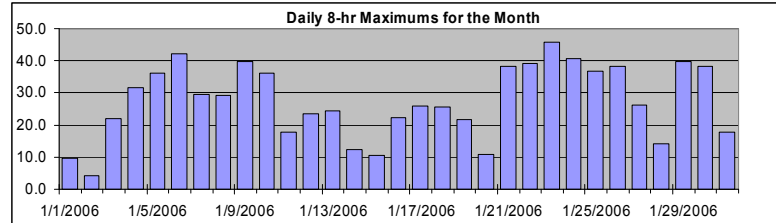
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: January 1, 2006 to February 1, 2006

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	45.7 ppb	23-Jan	17:00 18:00



Percentile	99	95	75	50	25	5	1
	44.7	39.2	28.3	18.6	10.2	3.7	2.2

Status Flag Characters

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

Day	Mountain Standard Time																								Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jan-06	10	8	7	5	4	4	3	2	2	2	2	3	4	5	5	6	6	6	6	5	4	4	3	3	9.5
2-Jan-06	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	4	3	3	3	4.1
3-Jan-06	3	3	4	5	5	6	8	10	11	13	15	17	19	21	21	21	22	22	22	21	21	20	20	19	22.1
4-Jan-06	19	19	17	17	16	16	15	15	14	13	14	14	16	17	19	21	23	25	27	29	30	30	30	32	31.5
5-Jan-06	32	31	28	25	25	25	26	26	26	27	29	30	28	27	25	24	22	20	23	26	29	31	33	36	36.0
6-Jan-06	39	42	42	42	42	42	41	40	38	38	37	36	35	32	31	30	30	29	28	26	23	21	18	17	42.1
7-Jan-06	16	15	14	14	16	18	20	21	22	22	22	22	22	21	21	22	23	23	25	25	26	28	29	29	29.4
8-Jan-06	29	29	27	27	25	23	21	19	17	15	14	13	12	12	12	13	13	12	12	13	13	12	10	8	29.2
9-Jan-06	7	7	8	7	7	9	13	17	21	25	29	33	36	39	39	40	40	39	39	39	38	38	37	36	39.8
10-Jan-06	36	36	36	35	35	35	35	35	34	33	32	31	31	30	N	N	N	N	N	N	N	13	13	16	36.0
11-Jan-06	16	16	18	18	16	15	13	11	11	11	11	10	10	10	N	N	N	N	N	N	N	15	15	13	17.8
12-Jan-06	14	16	18	19	20	21	22	22	23	23	23	23	22	22	21	21	20	19	18	20	21	22	23	23	23.5
13-Jan-06	24	24	24	23	22	20	20	17	16	15	15	14	13	N	N	N	N	N	N	N	N	8	8	8	24.5
14-Jan-06	9	9	10	10	10	11	12	12	10	9	9	9	10	10	10	11	11	11	10	9	7	6	5	4	12.3
15-Jan-06	3	3	3	3	4	4	5	5	5	5	6	6	7	7	7	8	8	8	8	8	7	7	8	10	10.4
16-Jan-06	11	14	16	17	19	21	22	22	22	21	20	19	17	15	14	12	10	8	8	8	7	7	7	7	22.4
17-Jan-06	8	10	12	13	14	15	15	14	13	12	11	11	11	11	11	11	13	15	17	19	23	25	26	26	26.0
18-Jan-06	26	24	22	20	17	15	15	16	16	17	18	19	20	21	23	24	25	25	25	25	25	24	23	22	25.5
19-Jan-06	22	21	20	19	19	18	18	18	17	16	16	16	15	15	15	14	14	13	12	10	9	7	6	4	21.7
20-Jan-06	4	4	4	4	4	4	4	4	4	4	5	6	6	8	9	10	11	11	11	10	10	9	8	8	11.0
21-Jan-06	8	8	8	9	10	10	9	9	8	8	9	10	11	14	16	20	24	28	30	32	34	36	38	38	38.4
22-Jan-06	38	38	38	38	39	39	39	39	39	39	39	39	38	38	38	37	37	37	37	38	38	39	39	39	39.1
23-Jan-06	39	39	39	40	40	41	41	42	43	43	44	44	45	45	45	45	45	46	46	45	44	43	43	42	45.7
24-Jan-06	41	40	39	39	39	38	37	34	32	29	27	24	23	23	24	27	30	32	35	36	37	38	37	37	40.8
25-Jan-06	37	37	36	36	36	35	34	33	31	29	27	24	22	20	19	18	15	16	16	18	18	21	24	27	36.9
26-Jan-06	31	33	36	37	38	37	36	35	33	32	31	30	28	27	26	25	24	24	24	23	23	23	22	22	38.1
27-Jan-06	23	23	24	24	25	26	26	26	25	24	23	22	21	20	20	20	19	18	17	16	14	12	11	9	26.1
28-Jan-06	8	8	8	7	7	7	8	7	6	6	6	6	6	7	8	8	10	12	12	13	14	14	14	14	14.2
29-Jan-06	13	13	12	11	10	9	9	8	8	10	13	18	22	26	31	35	38	40	40	39	38	36	36	36	39.8
30-Jan-06	36	37	37	37	38	38	37	35	34	32	31	29	27	26	25	24	24	23	22	21	19	18	17	17	38.2
31-Jan-06	17	16	16	17	17	18	17	15	14	12	10	10	10	10	12	13	14	15	15	16	15	15	16	16	17.7

Hourly Max	40.8	42.0	42.1	42.1	41.8	41.6	41.5	42.2	42.7	43.2	43.8	44.4	44.7	45.0	45.2	45.3	45.5	45.7	45.5	44.9	43.9	43.1	42.7	41.8
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PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

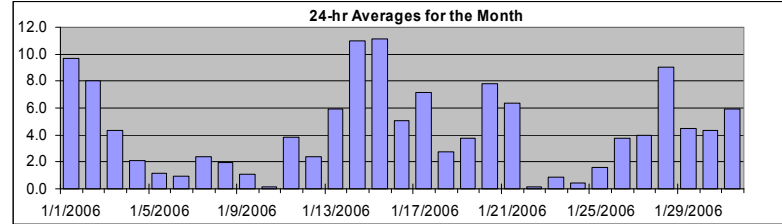
Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$
Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	34.6 $\mu\text{g}/\text{m}^3$ 28-Jan 22:00 23:00
Maximum 24-hr Value:	11.2 $\mu\text{g}/\text{m}^3$ 15-Jan

AIC Time:	0 hrs	Operational Time:	729 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	98.3%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geommean	
	16.8	11.7	7.0	3.1	0.6	0.0	0.0	4.3	4 $\mu\text{g}/\text{m}^3$	2.8 $\mu\text{g}/\text{m}^3$



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jan-06	10	10	11	11	10	10	9	9	9	9	11	10	10	8	8	9	10	10	11	12	9	9	9	8	9.7	11.6
2-Jan-06	9	9	7	9	9	8	9	8	10	8	9	12	12	13	10	9	9	16	7	2	1	1	3	3	8.0	15.8
3-Jan-06	2	4	3	4	2	3	5	5	7	8	8	6	8	8	4	2	2	2	2	6	7	3	2	3	4.3	8.4
4-Jan-06	2	3	5	4	4	3	5	4	5	4	3	4	3	1	1	0	0	0	0	0	0	1	0	0	2.1	4.9
5-Jan-06	0	0	4	3	1	0	0	0	0	0	0	1	1	2	3	4	3	3	1	1	0	0	1	0	1.2	4.3
6-Jan-06	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	2	5	6	4	2	0.9	5.6
7-Jan-06	1	1	2	2	2	1	2	2	1	2	2	2	2	7	4	2	1	2	1	6	2	5	2	3	2.4	6.6
8-Jan-06	2	3	4	3	2	1	0	0	0	1	1	1	1	7	8	1	1	4	1	0	2	0	1	3	1.9	8.5
9-Jan-06	3	3	5	5	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	5.9
10-Jan-06	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	D	D	D	0	0	0	0	0	2	0.1	2.0
11-Jan-06	2	3	3	2	1	0	2	3	2	2	4	11	4	5	5	1	6	7	4	4	4	6	4	5	3.8	11.1
12-Jan-06	5	3	4	0	1	2	3	2	3	2	4	4	5	2	2	2	1	1	0	0	5	3	1	3	2.4	4.6
13-Jan-06	2	2	1	3	3	3	4	5	5	6	5	2	4	5	6	15	1	4	13	15	9	10	12	9	5.9	14.8
14-Jan-06	6	9	13	14	16	21	11	7	7	7	5	4	4	8	9	10	11	14	15	11	17	17	18	11.0	21.3	
15-Jan-06	15	15	16	15	14	9	8	9	10	12	10	12	11	10	11	10	11	10	14	12	11	12	7	5	11.2	15.8
16-Jan-06	4	4	2	1	2	1	3	2	0	0	5	12	10	6	9	8	7	9	5	5	5	7	8	9	5.1	12.0
17-Jan-06	11	11	7	4	7	4	4	6	9	13	13	13	12	11	11	9	7	2	1	0	0	0	6	11	7.2	13.1
18-Jan-06	9	6	7	5	4	3	3	3	2	3	3	2	2	0	1	1	1	3	1	0	2	2	1	1	2.8	9.2
19-Jan-06	0	1	2	2	0	1	0	1	2	7	4	4	7	6	4	6	6	5	4	5	6	6	6	7	3.8	7.1
20-Jan-06	7	9	8	9	6	6	7	6	6	5	6	6	9	9	8	9	10	9	9	9	9	9	9	9	7.8	9.5
21-Jan-06	10	9	12	28	23	11	8	8	9	6	4	4	3	3	4	2	0	0	D	0	0	0	1	0	6.3	28.0
22-Jan-06	0	1	0	0	D	0	0	0	0	1	0	0	D	0	0	0	0	0	0	1	0	0	0	0	0.2	1.3
23-Jan-06	0	0	0	0	0	0	1	3	1	1	1	2	0	0	1	2	2	2	0	2	0	1	0	1	0.9	3.4
24-Jan-06	0	0	1	0	0	1	0	0	0	2	2	1	2	0	D	D	0	0	0	0	0	0	0	0	0.4	2.1
25-Jan-06	0	0	0	1	0	0	0	2	0	3	2	5	2	2	4	3	2	0	1	0	5	3	2	1	1.6	5.2
26-Jan-06	0	0	0	0	0	0	0	0	2	3	7	5	6	5	5	5	6	8	6	8	8	6	6	7	3.8	7.7
27-Jan-06	2	3	3	0	2	1	2	4	4	6	6	8	4	4	5	6	6	4	4	5	5	5	3	4	4.0	7.8
28-Jan-06	2	0	0	D	5	D	12	3	7	0	11	9	10	9	10	10	11	13	6	7	11	17	35	13	9.1	34.6
29-Jan-06	8	8	8	10	10	10	10	11	11	9	3	0	D	0	0	0	D	0	0	0	0	0	0	0	4.5	11.1
30-Jan-06	0	D	0	0	1	3	2	3	4	6	3	5	6	6	6	6	6	6	5	6	6	9	6	7	4.4	8.5
31-Jan-06	10	11	10	11	10	11	10	6	10	10	9	6	4	3	0	0	0	2	2	0	2	7	5	3	6.0	10.7
Hourly Avg	4.0	4.2	4.5	4.9	4.7	3.9	3.9	3.6	4.1	4.4	4.7	4.9	5.0	4.6	4.7	4.5	4.0	4.4	3.8	4.0	3.9	4.6	4.9	4.4		
Hourly Max	15.1	14.5	15.8	28.0	22.8	21.3	11.7	11.1	11.0	13.0	13.1	12.6	12.3	13.0	10.8	14.6	11.1	15.8	14.1	15.4	10.9	17.2	34.6	18.3		

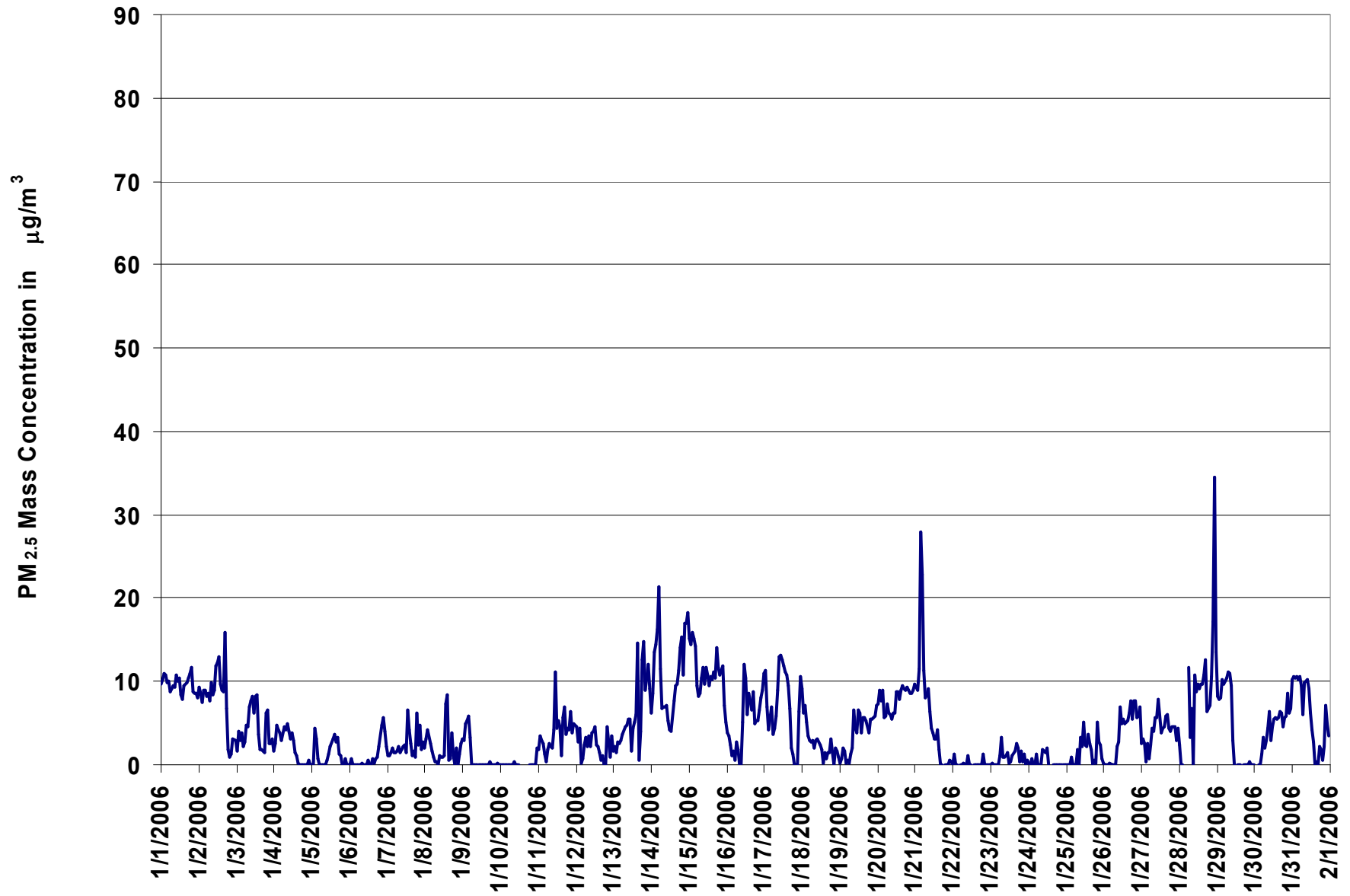


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

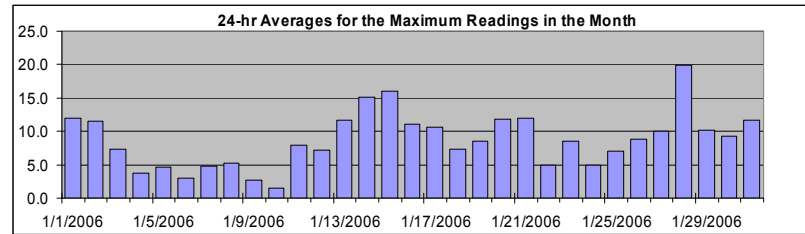
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	65.2	µg/m ³	28-Jan	22:00 23:00
Maximum 24-hr Value:	19.9	µg/m ³	28-Jan	



AIC Time:	0 hrs	Operational Time:	729 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	98.3%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	31.4	17.6	12.0	7.9	4.6	1.2	0.4	8.8	9 µg/m ³	7.7 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-06	12	13	13	13	13	12	11	11	11	11	13	12	13	12	10	11	11	12	13	14	12	11	12	12	12.0	14.4	
2-Jan-06	13	12	13	11	11	11	10	12	11	10	12	14	17	18	14	11	10	36	11	4	3	2	5	5	11.5	36.2	
3-Jan-06	5	6	7	8	4	4	7	7	10	10	10	9	10	13	7	4	4	3	3	12	19	5	4	5	7.3	19.2	
4-Jan-06	3	4	8	6	5	5	7	6	7	6	5	6	4	3	3	2	1	1	2	2	0	0	2	2	3.8	7.9	
5-Jan-06	0	5	8	5	3	1	1	3	4	6	5	9	15	4	7	8	9	7	5	2	1	2	1	2	4.6	14.6	
6-Jan-06	2	3	2	2	1	1	1	1	2	2	2	1	4	3	1	2	2	2	5	6	9	8	7	4	3.0	9.3	
7-Jan-06	3	2	3	3	3	3	3	4	3	4	6	4	4	17	7	4	5	4	3	11	5	6	5	5	4.8	16.7	
8-Jan-06	4	6	6	4	4	3	2	2	2	4	5	2	3	12	12	4	7	9	5	4	9	5	4	5	5.3	12.3	
9-Jan-06	7	6	6	10	10	7	1	1	1	1	1	0	1	1	2	3	1	2	0	1	0	0	1	1	2.8	10.2	
10-Jan-06	1	1	1	1	1	3	1	0	1	2	1	1	1	C	C	D	D	D	1	2	1	2	4	4	1.6	4.5	
11-Jan-06	5	6	7	7	5	4	4	5	4	8	16	16	11	10	8	4	9	12	8	9	7	9	7	9	8.0	15.9	
12-Jan-06	10	8	9	6	5	8	8	7	6	7	10	15	11	7	5	5	4	5	2	3	10	9	8	7	7.2	14.8	
13-Jan-06	6	6	6	7	5	9	7	8	7	9	9	7	9	7	8	31	6	8	51	22	11	14	15	14	11.7	51.0	
14-Jan-06	10	14	17	17	19	32	18	10	10	9	11	8	7	8	11	13	13	15	19	21	14	20	24	24	15.1	32.0	
15-Jan-06	19	19	19	19	20	18	13	13	15	16	15	16	15	13	14	15	17	15	18	16	15	16	14	13	16.0	19.5	
16-Jan-06	17	13	12	5	8	6	8	7	7	3	15	20	17	16	12	13	12	13	10	9	9	12	11	13	11.1	20.0	
17-Jan-06	13	16	11	11	12	5	6	9	13	16	15	15	15	15	15	14	11	5	4	3	2	4	11	14	10.6	16.1	
18-Jan-06	12	10	10	9	8	7	6	7	6	7	10	7	8	6	7	7	8	7	8	6	4	6	6	5	7.3	12.2	
19-Jan-06	5	6	7	6	5	5	3	6	6	14	11	12	16	10	7	7	8	9	8	10	11	11	11	13	8.5	15.7	
20-Jan-06	12	15	13	12	9	9	11	10	9	10	10	10	12	13	12	12	14	13	13	13	13	12	14	14	11.8	14.9	
21-Jan-06	14	13	23	35	32	21	14	13	16	11	11	9	9	8	9	10	2	2	D	3	4	6	6	6	12.0	35.4	
22-Jan-06	4	7	4	5	D	4	6	8	7	9	3	3	D	1	5	2	2	3	8	9	4	4	5	5	4.9	8.9	
23-Jan-06	10	15	8	17	10	8	9	15	9	6	12	13	5	5	6	6	8	6	5	7	5	6	5	9	8.6	17.1	
24-Jan-06	8	6	8	5	6	8	6	4	8	8	8	10	6	5	D	D	1	2	2	1	1	2	2	1	5.0	9.8	
25-Jan-06	1	1	2	7	4	5	15	17	10	9	11	12	6	8	6	5	5	3	3	3	9	7	13	8	7.1	16.8	
26-Jan-06	4	3	4	2	3	3	4	3	8	12	12	10	12	10	11	10	13	14	11	15	14	11	11	13	8.8	15.5	
27-Jan-06	10	11	11	6	8	8	10	11	10	11	12	15	10	11	10	10	11	11	10	10	10	9	7	9	10.0	15.4	
28-Jan-06	10	6	11	D	30	D	36	8	12	18	22	15	16	14	14	14	15	17	14	15	17	43	65	25	19.9	65.2	
29-Jan-06	14	14	12	15	15	16	18	20	20	18	10	3	D	4	3	5	D	5	5	4	6	7	5	4	10.1	20.3	
30-Jan-06	5	D	4	5	5	7	6	7	8	12	8	9	10	11	11	10	11	12	10	12	12	15	11	10	9.2	15.3	
31-Jan-06	16	15	15	16	14	16	16	11	22	17	17	14	10	11	7	5	5	7	7	4	7	11	8	8	11.6	22.1	
Hourly Avg	8.2	8.7	9.0	9.2	9.2	8.4	8.6	7.9	8.4	9.2	9.9	9.6	9.5	9.3	8.4	8.6	7.8	8.6	8.7	8.1	7.9	8.9	9.8	8.6			
Hourly Max	18.9	18.9	22.7	35.4	31.6	32.0	36.4	20.1	22.1	18.4	22.1	20.0	17.5	17.7	14.8	31.1	17.0	36.2	51.0	21.8	19.2	43.4	65.2	25.0			

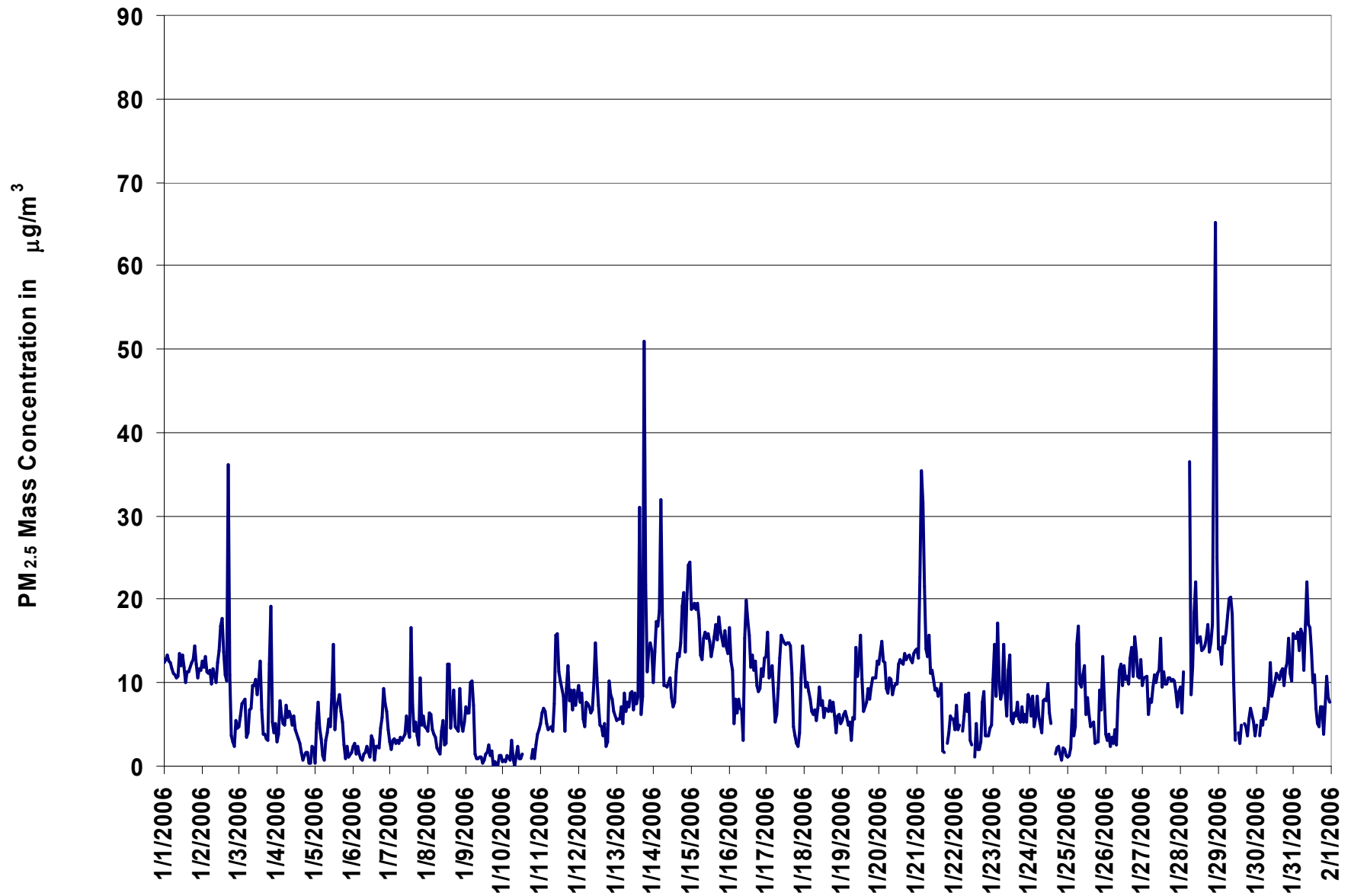
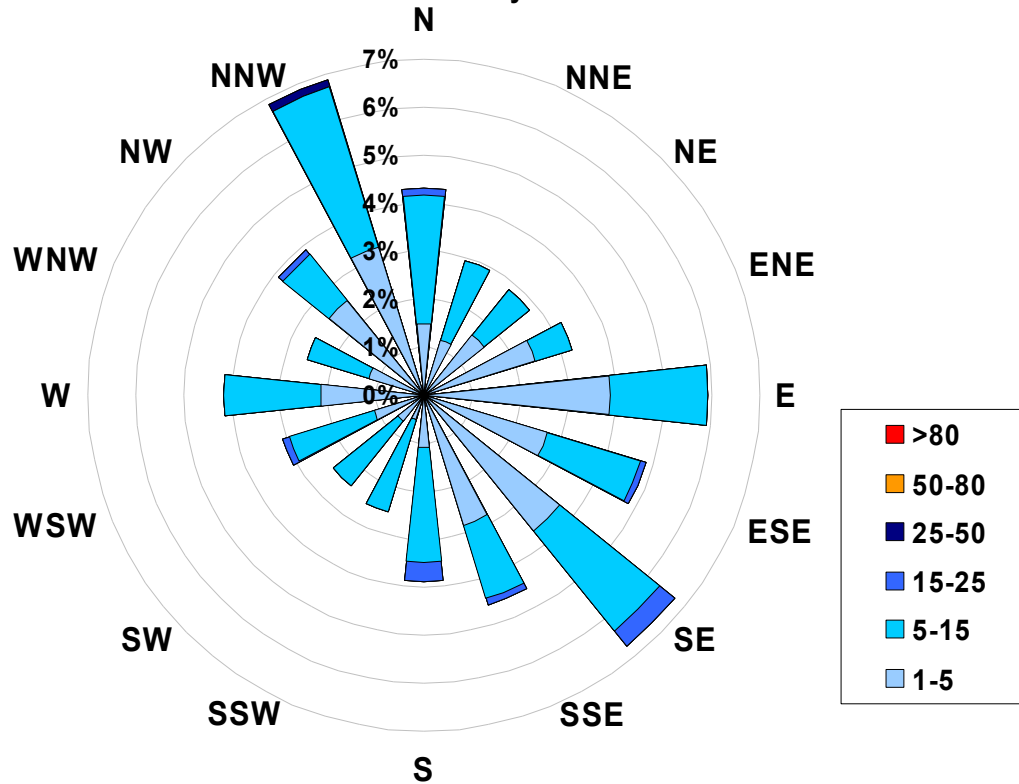


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 2006



Calms: 5%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	461
5	to	15	254
15	to	25	12
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			729

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

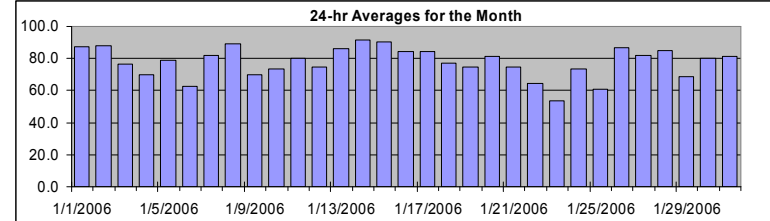
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	97.0	%	7-Jan	5:00 6:00
Maximum 24-hr Value:	91.6	%	14-Jan	



AIC Time:	0 hrs		Operational Time:	744 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile	99	95	75	50
	96.0	93.0	89.0	83.0
			25	5
			51.0	1
			43.4	
			77.8	Average
				Median
				83.0

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jan-06	91	92	91	92	91	91	92	92	92	92	81	80	65	66	69	78	88	93	93	95	93	93	91	91	87.2	95.0	
2-Jan-06	91	91	91	91	91	91	91	90	91	91	88	87	83	80	76	80	87	91	90	86	89	90	91	87	88.1	91.0	
3-Jan-06	86	89	91	86	91	90	85	79	81	81	76	66	64	60	56	53	64	70	67	76	73	81	82	83	76.3	91.0	
4-Jan-06	77	73	85	83	82	80	78	76	76	76	67	65	69	66	64	60	61	60	64	62	63	63	65	60	69.8	85.0	
5-Jan-06	58	63	83	92	95	95	94	94	95	92	94	94	91	93	88	94	96	92	56	50	44	49	47	46	79.0	96.0	
6-Jan-06	48	53	51	54	55	52	55	61	63	59	58	59	61	68	61	61	63	64	64	71	75	80	80	87	62.6	87.0	
7-Jan-06	91	88	87	89	91	94	97	96	95	94	87	81	69	60	60	57	66	77	71	83	81	80	88	90	82.2	97.0	
8-Jan-06	91	91	94	94	92	93	92	92	92	92	90	91	88	84	84	83	86	88	84	82	84	89	90	88	88.9	94.0	
9-Jan-06	87	88	81	84	83	83	74	77	75	73	67	61	59	54	53	52	57	61	62	66	68	72	69	69	69.8	88.0	
10-Jan-06	69	69	68	69	68	75	74	74	77	76	71	70	67	64	68	76	77	79	83	81	73	77	81	79	73.5	83.0	
11-Jan-06	85	91	91	90	91	89	89	88	88	87	81	75	69	57	51	57	64	76	77	83	87	86	86	91	80.4	91.0	
12-Jan-06	88	87	86	86	87	87	85	91	88	84	67	63	51	49	54	64	72	75	73	71	72	73	71	75	75.0	91.0	
13-Jan-06	76	81	79	80	81	82	85	85	88	91	91	84	83	83	82	84	86	90	91	94	94	94	94	93	86.3	94.0	
14-Jan-06	93	93	93	93	93	93	92	92	92	91	91	91	91	91	92	91	91	91	91	91	90	91	91	91	91	91.6	93.0
15-Jan-06	91	91	91	91	91	91	91	91	91	90	90	90	90	91	91	91	92	91	90	89	88	89	89	89	90.4	92.0	
16-Jan-06	88	89	88	88	88	89	90	89	88	88	83	77	72	70	76	74	88	89	85	85	88	87	86	86	84.6	90.0	
17-Jan-06	85	89	93	93	93	93	93	92	93	93	90	88	78	80	79	76	79	72	75	70	66	69	88	92	84.1	93.0	
18-Jan-06	91	84	80	80	79	78	79	77	77	76	76	72	73	74	74	74	75	77	76	75	74	75	76	78	77.1	91.0	
19-Jan-06	79	84	83	83	83	85	86	83	82	82	79	68	50	41	46	45	67	80	82	82	82	83	82	82	75.0	86.0	
20-Jan-06	79	80	81	82	78	79	83	84	86	86	80	73	73	75	73	74	79	82	86	87	88	88	87	89	81.3	89.0	
21-Jan-06	91	92	90	88	87	87	86	86	86	83	69	71	75	73	62	63	58	59	61	63	60	63	65	68	74.4	92.0	
22-Jan-06	70	70	71	69	65	66	69	71	72	73	72	69	67	62	60	57	55	56	54	58	62	61	61	58	64.5	73.0	
23-Jan-06	55	55	55	55	53	50	49	52	54	52	45	43	42	42	42	42	45	48	55	59	61	66	81	86	53.6	86.0	
24-Jan-06	93	96	96	95	95	97	97	97	97	96	93	84	65	50	48	50	46	54	53	55	58	50	52	54	73.8	97.0	
25-Jan-06	54	59	58	62	65	67	68	69	68	73	71	64	53	51	50	53	51	54	53	51	54	63	69	82	60.9	82.0	
26-Jan-06	83	85	84	89	90	88	89	88	92	84	89	87	85	83	83	83	83	85	85	90	89	88	87	87	86.5	92.0	
27-Jan-06	86	85	83	82	81	82	85	86	86	86	85	82	80	76	70	64	66	81	84	85	86	87	89	88	81.9	89.0	
28-Jan-06	88	87	87	86	85	86	85	84	83	85	83	82	84	83	85	86	88	88	84	85	84	85	85	86	85.2	88.0	
29-Jan-06	87	87	88	87	88	87	87	88	88	85	72	59	51	43	42	48	50	55	51	55	62	65	59	61	68.5	88.0	
30-Jan-06	65	65	64	64	68	75	85	88	86	85	83	79	77	74	76	75	79	86	89	92	91	91	90	90	79.9	92.0	
31-Jan-06	90	90	90	89	89	88	87	87	88	88	88	84	83	75	68	55	57	77	83	81	84	80	71	74	81.1	90.0	
Hourly Avg	80.8	81.8	82.4	82.8	82.9	83.3	83.6	83.8	84.2	83.4	79.3	75.5	71.2	68.3	67.2	67.7	71.5	75.5	74.6	75.9	76.2	77.7	78.8	80.0			
Hourly Max	93.0	96.0	96.0	95.0	95.0	97.0	97.0	97.0	97.0	96.0	94.0	94.0	91.0	93.0	92.0	94.0	96.0	93.0	93.0	95.0	94.0	94.0	94.0	93.0			

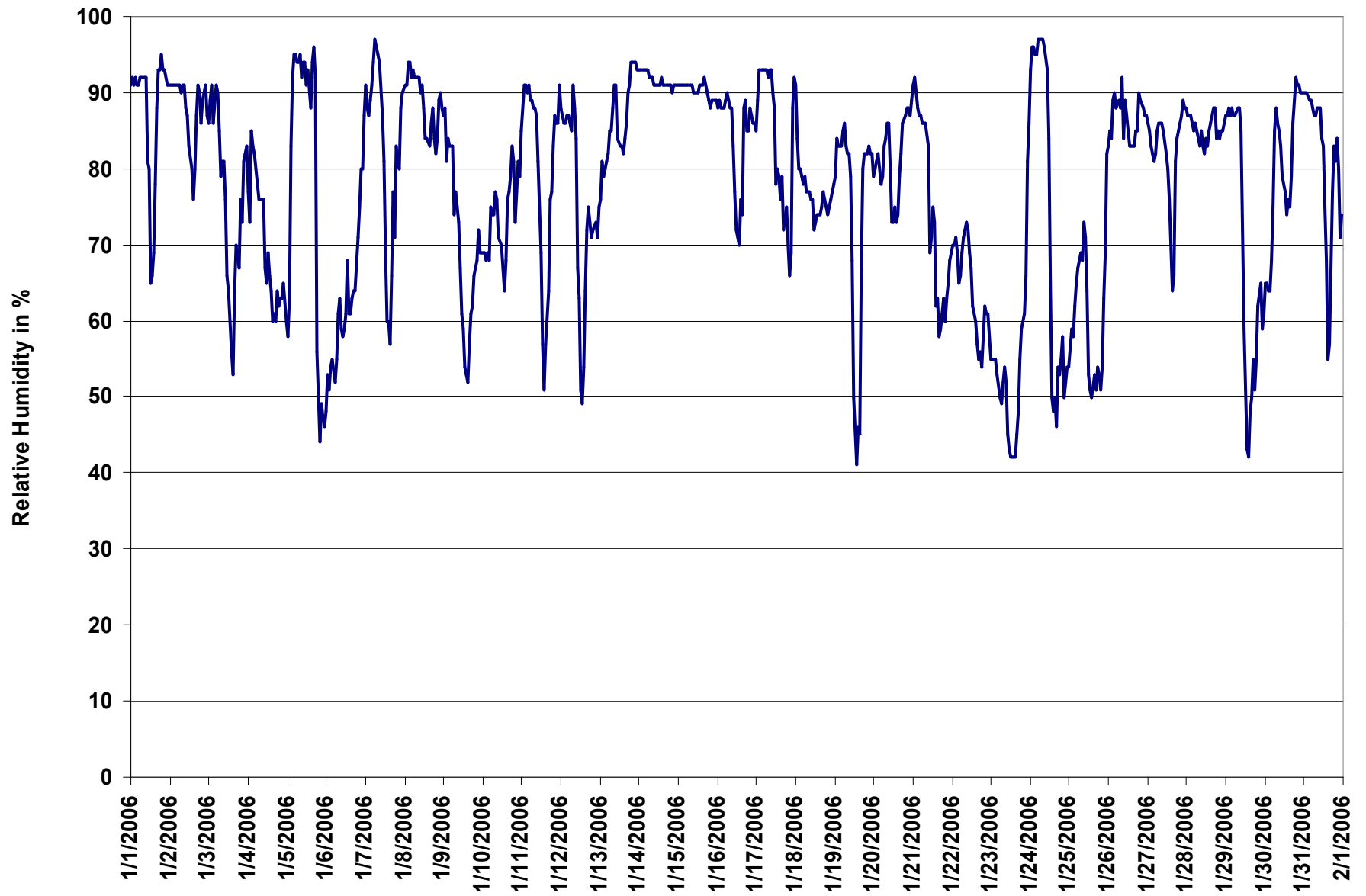


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

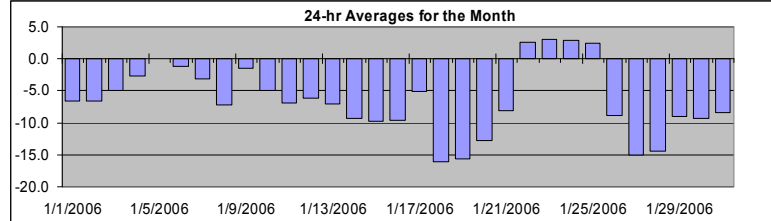
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	10.1	°C	24-Jan	13:00 14:00
Maximum 24-hr Value:	3.1	°C	23-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
	6.4	4.1	-1.5	-6.8	-10.3	-16.8	-18.2	-6.4 °C	-6.8 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jan-06	-9	-9	-8	-8	-8	-7	-8	-8	-8	-8	-6	-5	-1	-1	-1	-3	-5	-6	-7	-8	-8	-8	-9	-9	-6.6	-0.8	
2-Jan-06	-9	-8	-8	-9	-9	-9	-8	-9	-9	-8	-8	-7	-6	-4	-2	-3	-5	-6	-6	-4	-5	-5	-5	-5	-6.6	-2.2	
3-Jan-06	-6	-7	-9	-7	-9	-9	-8	-7	-8	-8	-7	-4	-2	0	1	2	-1	-3	-2	-4	-4	-5	-6	-6	-4.9	2.5	
4-Jan-06	-6	-5	-8	-7	-7	-8	-7	-6	-6	-6	-4	-1	0	2	3	3	2	1	-1	0	-1	-1	-2	-1	-2.7	3.5	
5-Jan-06	0	-1	-5	-4	-1	0	0	0	-1	-1	-2	-2	-1	-1	-1	-1	-2	-2	5	5	5	4	3	3	0.0	5.3	
6-Jan-06	3	1	1	0	0	0	-1	-2	-3	-1	-1	-1	-1	-2	-1	-1	-2	-2	-1	-2	-3	-4	-4	-4	-1.2	2.7	
7-Jan-06	-3	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4	-2	1	1	1	1	-1	-4	-3	-6	-6	-5	-7	-7	-3.1	1.5	
8-Jan-06	-8	-8	-10	-9	-10	-9	-9	-9	-9	-10	-8	-9	-8	-7	-6	-5	-6	-6	-4	-4	-4	-5	-6	-6	-7.2	-3.6	
9-Jan-06	-5	-6	-5	-6	-5	-3	0	0	0	0	0	1	2	3	3	2	1	-1	-1	-1	-2	-4	-4	-4	-1.4	2.7	
10-Jan-06	-4	-4	-3	-4	-4	-6	-6	-5	-7	-6	-5	-5	-4	-2	-2	-5	-5	-6	-7	-7	-5	-6	-7	-7	-4.9	-2.3	
11-Jan-06	-9	-10	-10	-9	-9	-9	-10	-11	-10	-9	-9	-6	-5	-1	1	-1	-2	-5	-5	-7	-8	-7	-7	-9	-7.0	1.2	
12-Jan-06	-7	-7	-7	-8	-8	-9	-8	-10	-10	-9	-5	-4	0	1	0	-3	-6	-7	-7	-6	-7	-7	-6	-7	-6.2	0.6	
13-Jan-06	-6	-8	-8	-7	-7	-7	-8	-7	-7	-8	-8	-7	-6	-6	-5	-6	-6	-7	-7	-7	-7	-7	-7	-8	-7.1	-5.4	
14-Jan-06	-8	-8	-8	-8	-8	-8	-9	-9	-9	-10	-9	-10	-9	-10	-9	-9	-9	-10	-11	-10	-10	-11	-11	-10	-10	-9.4	-7.8
15-Jan-06	-10	-10	-10	-9	-10	-10	-10	-10	-11	-11	-11	-10	-9	-9	-8	-7	-6	-9	-10	-10	-10	-12	-12	-12	-9	-9.7	-6.2
16-Jan-06	-12	-10	-12	-13	-13	-13	-12	-12	-11	-12	-10	-9	-6	-6	-7	-5	-10	-10	-10	-8	-8	-8	-8	-7	-9.6	-4.8	
17-Jan-06	-7	-7	-6	-6	-6	-6	-6	-7	-7	-8	-7	-6	-5	-5	-4	-3	-3	-1	-2	-1	0	-1	-7	-9	-5.0	0.0	
18-Jan-06	-10	-12	-14	-15	-15	-16	-17	-16	-17	-17	-16	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-16.0	-9.9	
19-Jan-06	-17	-19	-18	-18	-17	-17	-18	-18	-19	-19	-18	-15	-10	-7	-8	-8	-13	-16	-17	-17	-16	-17	-17	-16	-15.7	-7.4	
20-Jan-06	-15	-15	-15	-15	-14	-14	-14	-14	-14	-14	-15	-14	-12	-11	-11	-10	-10	-11	-11	-11	-11	-12	-12	-13	-12.8	-9.9	
21-Jan-06	-14	-14	-15	-14	-15	-15	-16	-16	-16	-13	-9	-10	-11	-9	-4	-1	1	0	0	-2	-1	0	0	0	-8.2	1.2	
22-Jan-06	0	0	0	0	0	1	2	1	1	1	1	1	1	3	3	4	5	6	6	6	5	5	5	5	2.5	6.1	
23-Jan-06	5	5	4	4	4	4	4	3	3	3	3	4	4	4	4	4	4	3	3	2	2	1	0	-1	3.1	4.8	
24-Jan-06	-1	-1	-1	-1	-1	-1	-1	-2	-3	-3	-1	1	6	10	10	9	10	7	7	6	5	6	5	4	2.9	10.1	
25-Jan-06	3	2	2	1	0	0	-1	-1	-1	-2	-2	1	4	6	7	6	7	5	4	4	4	5	4	2	2.5	6.6	
26-Jan-06	2	1	-1	-2	-3	-2	-2	-2	-4	-10	-12	-12	-12	-13	-13	-14	-13	-14	-14	-13	-14	-15	-15	-15	-8.8	1.8	
27-Jan-06	-16	-17	-17	-17	-17	-17	-17	-17	-17	-17	-16	-15	-15	-14	-13	-12	-10	-11	-14	-14	-14	-15	-15	-15	-15.1	-10.3	
28-Jan-06	-16	-16	-17	-17	-18	-17	-18	-19	-19	-18	-17	-14	-12	-11	-10	-9	-9	-9	-11	-13	-14	-14	-15	-16	-14.5	-8.7	
29-Jan-06	-15	-16	-17	-17	-16	-16	-16	-15	-15	-10	-5	-3	-1	-1	-1	-2	-4	-6	-5	-7	-8	-7	-6	-6	-9.0	-0.5	
30-Jan-06	-7	-7	-7	-7	-8	-8	-8	-9	-10	-11	-10	-10	-9	-9	-9	-9	-9	-10	-10	-11	-11	-10	-11	-12	-9.2	-6.8	
31-Jan-06	-12	-12	-13	-14	-14	-15	-15	-15	-14	-13	-11	-10	-8	-3	-1	2	0	-5	-6	-5	-5	-5	-4	-5	-8.4	1.6	
Hourly Avg	-7.0	-7.5	-7.9	-8.0	-8.1	-8.0	-8.2	-8.4	-8.5	-8.4	-7.5	-6.4	-4.9	-3.8	-3.2	-3.1	-4.1	-5.3	-5.3	-5.6	-5.8	-6.0	-6.5	-6.7			
Hourly Max	4.8	4.6	4.3	4.2	4.2	4.0	3.7	3.1	2.8	2.6	3.2	3.6	5.7	10.1	10.0	9.1	9.9	7.4	7.3	6.1	5.2	6.0	4.9	4.8			

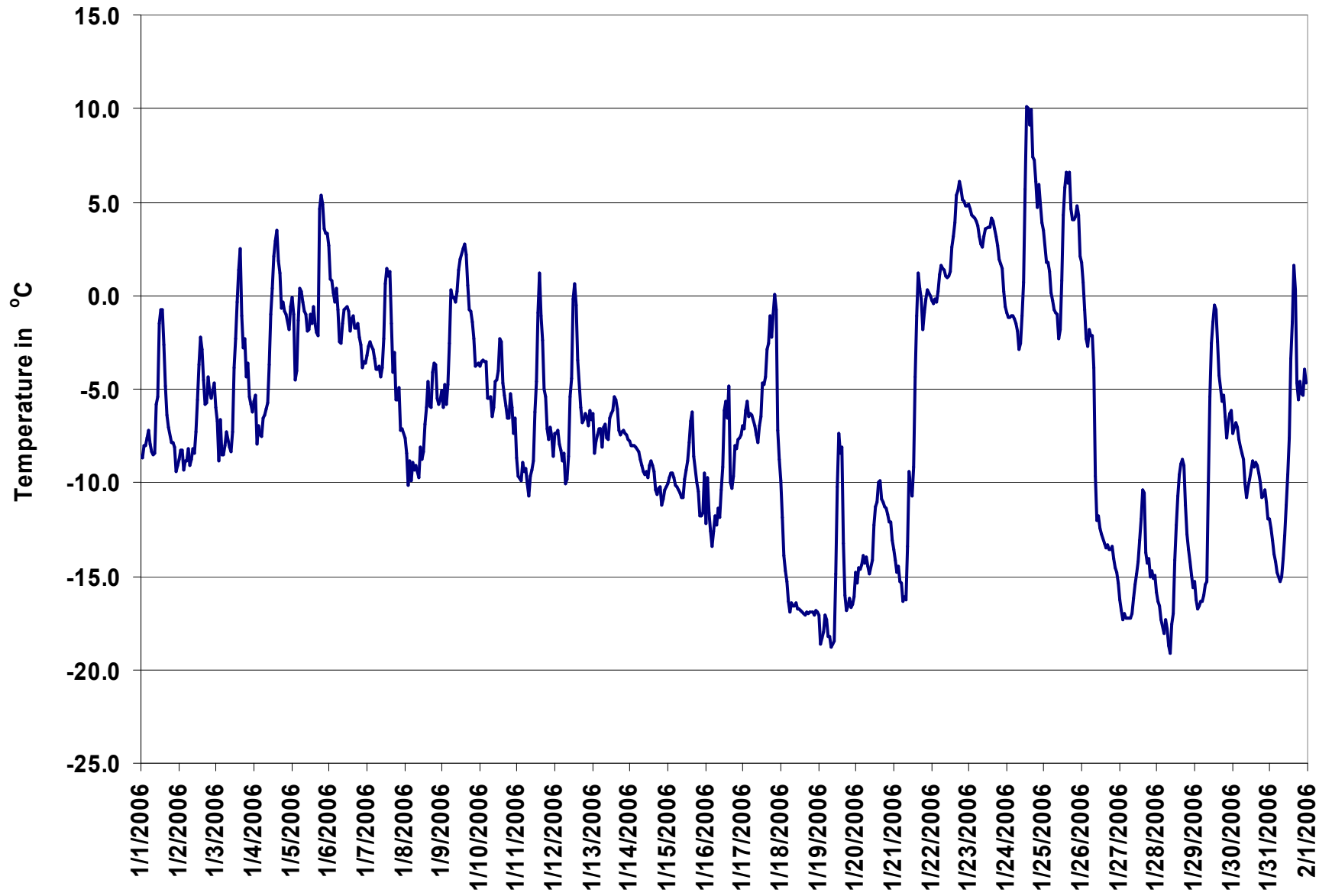


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

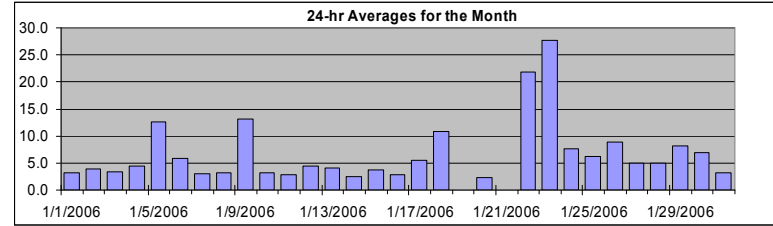
Wind Speed (WSs)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	47.5	km/hr	23-Jan	6:00 7:00
Maximum 24-hr Value:	27.7	km/hr	23-Jan	

Calm Time:	37 hrs	5% calms	Operational Time:	707 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	41.1	24.6	7.3	4.0	2.7	1.5	1.2	6.8 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	4	3	2	5	4	2	4	3	2	4	3	3	2	3	3	4	2	2	4	4	5	2	5	4	3.3	5.4	
2-Jan-06	6	4	8	6	6	3	8	3	3	3	4	4	3	3	2	4	2	2	4	3	4	5	2	4	4.0	7.9	
3-Jan-06	4	3	6	3	4	4	4	3	4	3	4	4	3	3	3	2	3	4	4	2	3	2	2	4	3.3	5.7	
4-Jan-06	5	3	4	2	3	5	3	3	3	3	3	6	8	8	7	4	2	8	4	3	4	4	5	6	4.5	8.3	
5-Jan-06	5	4	7	9	9	8	14	11	11	7	4	7	9	4	3	4	5	5	28	29	34	25	29	35	12.7	34.6	
6-Jan-06	28	8	14	11	7	7	6	4	3	4	2	3	4	4	3	2	2	4	5	3	3	4	4	5	5.9	27.7	
7-Jan-06	3	3	3	3	3	2	2	3	2	2	3	3	2	4	5	5	5	4	6	2	2	3	1	calm	3.1	5.5	
8-Jan-06	4	4	2	3	3	2	2	2	2	3	2	2	4	3	5	5	4	6	4	4	3	3	2	2	3.2	5.8	
9-Jan-06	4	5	4	9	9	11	14	20	18	16	17	21	25	26	19	16	13	11	10	11	10	11	5	11	13.2	25.7	
10-Jan-06	4	3	4	3	2	3	4	3	4	4	3	3	2	calm	3	3	1	3	5	6	4	2	3	4	3.3	5.7	
11-Jan-06	1	1	4	2	3	4	2	3	4	3	calm	1	2	1	3	6	2	5	5	2	calm	3	3	calm	2.9	5.5	
12-Jan-06	calm	1	4	1	1	2	3	calm	4	4	4	4	1	2	2	5	7	8	8	9	8	7	8	7	4.5	8.9	
13-Jan-06	8	5	7	6	4	4	4	2	2	4	4	2	4	2	3	3	3	5	3	2	4	6	4	5	4.0	8.2	
14-Jan-06	5	5	4	2	3	3	3	1	2	1	calm	1	1	2	3	3	2	2	2	3	3	2	2	2	2.4	5.2	
15-Jan-06	1	calm	1	1	2	3	3	3	2	2	2	1	calm	calm	calm	3	5	7	9	9	4	5	5	5	3.6	9.5	
16-Jan-06	4	3	2	2	1	3	3	4	3	calm	calm	calm	1	3	4	2	3	3	2	3	4	3	5	4	2.9	4.6	
17-Jan-06	4	5	6	6	9	7	7	4	3	3	2	5	3	3	3	3	5	7	4	4	3	7	15	16	5.5	16.1	
18-Jan-06	14	15	13	13	11	8	5	9	14	12	12	17	16	14	15	13	13	8	7	4	5	7	7	7	10.8	16.6	
19-Jan-06	4	calm	2	3	4	5	5	4	1	calm	1	1	1	calm	2	1	calm	1	calm	calm	calm	calm	2	3	N	5.0	
20-Jan-06	2	2	2	2	2	1	2	1	3	3	2	2	3	4	2	2	2	1	3	3	2	3	2	2	2.3	4.3	
21-Jan-06	1	2	2	calm	calm	calm	calm	calm	calm	calm	calm	1	4	5	3	15	29	25	19	5	10	17	17	11	N	28.8	
22-Jan-06	12	10	13	12	13	20	38	42	33	32	18	9	9	5	10	4	18	26	35	32	27	35	38	35	21.9	41.7	
23-Jan-06	41	43	42	42	46	47	47	41	36	30	34	31	23	23	24	20	19	26	18	11	6	7	5	4	27.7	47.5	
24-Jan-06	5	6	10	8	10	9	5	5	4	4	4	5	3	12	23	19	13	7	12	4	2	8	4	5	7.7	22.7	
25-Jan-06	4	3	3	3	3	2	4	4	4	2	4	2	3	4	4	5	4	5	4	4	11	22	28	17	6.2	28.0	
26-Jan-06	16	14	9	5	4	5	7	7	5	17	15	13	12	10	10	8	7	7	6	5	9	7	8	7	8.9	17.1	
27-Jan-06	8	7	6	5	7	6	6	8	6	4	3	4	5	5	4	4	3	3	4	5	5	4	2	2	5.0	8.2	
28-Jan-06	3	2	3	2	4	2	2	3	4	6	4	5	6	2	5	6	5	7	13	13	8	7	6	3	5.0	13.5	
29-Jan-06	3	3	2	2	3	3	2	3	4	5	10	18	23	20	18	9	9	3	7	7	6	10	13	12	8.2	23.4	
30-Jan-06	15	13	12	7	6	7	4	2	8	11	7	7	7	6	7	5	3	2	3	4	6	10	8	8	6.9	14.9	
31-Jan-06	8	4	1	1	calm	calm	1	calm	calm	calm	1	calm	1	1	4	3	2	3	4	5	3	5	3	4	3.2	8.1	
1-hr Average	7.6	6.4	6.5	6.0	6.4	6.5	7.1	7.2	6.7	7.1	6.4	6.3	6.3	6.5	6.7	6.0	6.4	6.8	8.1	6.7	6.8	7.8	7.8	8.0			
Hourly Max	41.2	43.5	41.8	42.2	45.7	47.2	47.5	41.7	36.0	32.1	34.0	30.9	24.9	25.7	24.0	19.5	28.8	25.9	35.2	32.4	33.7	35.2	37.5	35.3			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

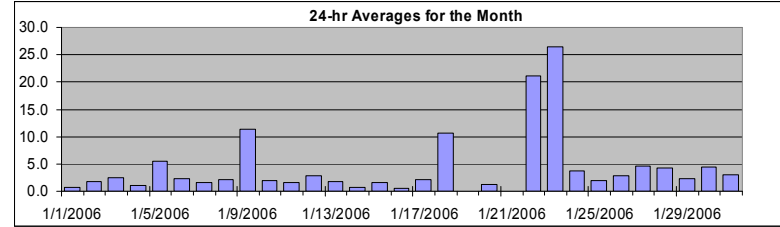
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Maximum 1-hr Average:	47.5	km/hr	23-Jan	6:00 7:00
Maximum 24-hr Value:	26.4	km/hr	23-Jan	



Calm Time:	37 hrs	5% calms	Operational Time:	707 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	41.1	24.6	7.3	4.0	2.7	1.5	1.2	5.7 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-06	4	3	2	5	4	2	4	3	2	4	3	3	2	3	3	4	2	2	4	4	5	2	5	4	0.8	5.4	
2-Jan-06	6	4	8	6	6	3	8	3	3	3	4	4	3	3	2	4	2	2	4	3	4	5	2	4	1.7	7.9	
3-Jan-06	4	3	6	3	4	4	4	3	4	3	4	4	3	3	3	2	3	4	4	2	3	2	2	4	2.5	5.7	
4-Jan-06	5	3	4	2	3	5	3	3	3	3	3	6	8	8	7	4	2	8	4	3	4	4	5	6	1.1	8.3	
5-Jan-06	5	4	7	9	9	8	14	11	11	7	4	7	9	4	3	4	5	5	28	29	34	25	29	35	5.5	34.6	
6-Jan-06	28	8	14	11	7	7	6	4	3	4	2	3	4	4	3	2	2	4	5	3	4	4	4	5	2.3	27.7	
7-Jan-06	3	3	3	3	3	2	2	3	2	2	3	3	2	4	5	5	5	4	6	2	2	3	1	calm	1.7	5.5	
8-Jan-06	4	4	2	3	3	2	2	2	2	3	2	2	4	3	5	5	4	6	4	4	3	3	2	2	2.2	5.8	
9-Jan-06	4	5	4	9	9	11	14	20	18	16	17	21	25	26	19	16	13	11	10	11	10	11	5	11	11.3	25.7	
10-Jan-06	4	3	4	3	2	3	4	3	4	4	3	3	2	calm	3	3	1	3	5	6	4	2	3	4	1.9	5.7	
11-Jan-06	1	1	4	2	3	4	2	3	4	4	3	calm	1	2	1	3	6	2	5	5	2	calm	3	3	calm	1.5	5.5
12-Jan-06	calm	1	4	1	1	2	3	calm	4	4	4	4	1	2	2	5	7	8	8	9	8	7	8	7	2.9	8.9	
13-Jan-06	8	5	7	6	4	4	4	2	2	4	4	2	4	2	3	3	3	5	3	2	4	6	4	5	1.7	8.2	
14-Jan-06	5	5	4	2	3	3	3	1	2	1	calm	1	1	2	3	3	2	2	2	3	3	2	2	2	0.7	5.2	
15-Jan-06	1	calm	1	1	2	3	3	3	2	2	2	1	calm	calm	calm	3	5	7	9	9	4	5	5	5	1.6	9.5	
16-Jan-06	4	3	2	2	1	3	3	4	3	calm	calm	calm	1	3	4	2	3	3	2	3	4	3	5	4	0.5	4.6	
17-Jan-06	4	5	6	6	9	7	7	4	3	3	2	5	3	3	3	3	5	7	4	4	3	7	15	16	2.1	16.1	
18-Jan-06	14	15	13	13	11	8	5	9	14	12	12	17	16	14	15	13	13	8	8	7	4	5	7	7	10.6	16.6	
19-Jan-06	4	calm	2	3	4	5	5	4	1	calm	1	1	1	calm	2	1	calm	1	calm	calm	calm	calm	2	3	N	5.0	
20-Jan-06	2	2	2	2	2	1	2	1	3	3	2	2	3	4	2	2	2	1	3	3	2	3	2	2	1.2	4.3	
21-Jan-06	1	2	2	calm	calm	calm	calm	calm	calm	calm	calm	1	4	5	3	15	29	25	19	5	10	17	17	11	N	28.8	
22-Jan-06	12	10	13	12	13	20	38	42	33	32	18	9	9	5	10	4	18	26	35	32	27	35	38	35	21.1	41.7	
23-Jan-06	41	43	42	42	46	47	47	41	36	30	34	31	23	23	24	20	19	26	18	11	6	7	5	4	26.4	47.5	
24-Jan-06	5	6	10	8	10	9	5	5	4	4	5	3	12	23	19	13	7	12	4	2	8	4	5	3.6	22.7		
25-Jan-06	4	3	3	3	3	2	4	4	4	2	4	2	3	4	4	5	4	5	4	4	11	22	28	17	2.0	28.0	
26-Jan-06	16	14	9	5	4	5	7	7	5	17	15	13	12	10	10	8	7	7	6	5	9	7	8	7	2.8	17.1	
27-Jan-06	8	7	6	5	7	6	6	8	6	4	3	4	5	5	4	4	3	3	4	5	5	4	2	2	4.6	8.2	
28-Jan-06	3	2	3	2	4	2	2	3	4	6	4	5	6	2	5	6	5	7	13	13	8	7	6	3	4.3	13.5	
29-Jan-06	3	3	2	2	3	3	2	3	4	5	10	18	23	20	18	9	9	3	7	7	6	10	13	12	2.3	23.4	
30-Jan-06	15	13	12	7	6	7	4	2	8	11	7	7	7	6	7	5	3	2	3	4	6	10	8	8	4.5	14.9	
31-Jan-06	8	4	1	1	calm	calm	1	calm	calm	calm	1	calm	1	1	4	3	2	3	4	5	3	5	3	4	3.0	8.1	
1-hr Vector	1.3	1.9	0.8	1.7	1.2	1.6	2.7	2.9	1.7	2.6	3.3	3.0	3.0	3.5	3.7	2.5	3.3	3.0	3.5	1.7	1.6	2.8	2.2	1.8			
Hourly Max	41.2	43.5	41.8	42.2	45.7	47.2	47.5	41.7	36.0	32.1	34.0	30.9	24.9	25.7	24.0	19.5	28.8	25.9	35.2	32.4	33.7	35.2	37.5	35.3			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2006 to February 1, 2006

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
	357.0	346.0	273.0	169.0	105.0	31.0	5.4	285 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Jan-06	180	205	335	306	35	310	188	192	202	193	249	157	101	135	195	190	260	262	300	302	357	239	2	51	248	WSW
2-Jan-06	305	360	360	323	13	26	353	350	14	341	300	298	53	310	125	194	201	150	90	115	130	117	336	65	5	N
3-Jan-06	85	267	63	108	141	101	85	98	96	116	93	160	166	167	173	123	113	72	51	125	98	145	134	79	109	ESE
4-Jan-06	65	96	86	122	111	111	61	111	174	156	128	210	246	256	271	223	169	265	344	62	68	88	115	93	145	SE
5-Jan-06	105	182	316	46	84	130	125	110	113	145	286	346	223	236	347	128	72	229	268	280	281	278	273	272	267	W
6-Jan-06	269	283	274	287	299	276	266	349	103	108	125	35	101	151	88	50	348	1	17	40	257	186	74	127	287	WNW
7-Jan-06	125	94	115	103	98	106	98	79	61	264	17	89	65	331	324	353	339	24	10	27	61	324	166	290	38	NE
8-Jan-06	54	291	92	97	131	134	105	122	134	95	151	169	153	88	66	71	213	153	118	109	87	124	194	143	118	ESE
9-Jan-06	141	169	131	349	359	308	273	260	261	262	271	263	261	263	264	261	255	258	254	267	266	262	213	231	264	W
10-Jan-06	86	180	193	216	281	82	88	126	114	123	124	94	20	159	270	216	134	81	153	106	91	268	65	90	120	ESE
11-Jan-06	193	219	43	22	353	35	354	72	53	4	354	276	213	104	43	334	252	291	333	45	256	25	277	91	360	N
12-Jan-06	99	71	69	115	92	296	292	11	16	57	12	280	59	140	137	164	123	100	106	109	117	116	116	159	108	ESE
13-Jan-06	136	245	152	180	118	126	318	359	278	259	254	32	253	245	63	327	209	173	99	125	131	126	146	171	167	SSE
14-Jan-06	144	149	178	228	255	190	211	250	172	231	273	264	252	308	346	358	346	22	270	319	115	129	128	187	199	SSW
15-Jan-06	170	211	133	119	180	187	186	200	225	214	216	170	144	130	116	58	3	347	347	1	19	14	352	341	353	N
16-Jan-06	293	30	142	143	148	137	124	87	71	46	268	144	238	58	1	326	201	274	83	240	234	241	237	195	195	SSW
17-Jan-06	233	328	107	173	313	315	319	274	176	187	179	78	105	153	172	127	41	343	335	221	349	315	343	344	330	NNW
18-Jan-06	347	343	344	344	342	343	347	334	323	332	331	330	328	330	330	330	327	346	5	15	351	336	337	327	337	NNW
19-Jan-06	357	80	149	94	117	131	111	87	229	277	326	316	295	264	265	273	187	202	119	40	38	281	103	103	N	-
20-Jan-06	250	276	47	275	63	157	115	160	224	238	260	233	268	306	293	292	188	121	220	263	168	210	221	213	240	WSW
21-Jan-06	87	133	80	100	140	138	155	196	99	112	137	140	82	80	247	270	278	273	261	228	226	255	254	271	N	-
22-Jan-06	247	250	249	251	247	257	265	264	261	264	260	247	238	199	241	188	276	281	279	284	282	277	266	276	266	W
23-Jan-06	279	277	276	274	278	282	281	280	279	282	291	300	307	311	312	317	310	306	285	297	305	318	11	94	288	WNW
24-Jan-06	134	131	143	130	150	155	126	160	146	138	165	76	90	256	257	254	256	244	268	149	165	250	119	74	202	SSW
25-Jan-06	93	110	147	284	32	84	56	53	58	267	47	216	169	279	305	79	149	96	113	102	296	269	285	289	295	WNW
26-Jan-06	252	259	249	228	106	214	266	261	61	9	358	351	350	352	348	353	1	16	19	117	133	119	128	141	337	NNW
27-Jan-06	133	136	138	132	152	136	156	147	134	115	205	173	155	181	160	136	116	117	117	133	161	154	97	314	144	SE
28-Jan-06	85	102	6	15	348	347	40	321	41	340	36	22	295	324	349	352	328	330	335	335	352	357	347	45	350	N
29-Jan-06	97	101	84	257	132	104	86	275	231	251	268	268	274	285	288	274	259	31	42	53	118	99	95	82	282	WNW
30-Jan-06	54	51	50	51	40	46	332	333	31	33	6	6	335	327	328	332	331	15	70	93	127	132	124	127	42	NE
31-Jan-06	134	169	161	155	252	117	84	97	182	114	159	152	91	119	97	114	147	148	130	108	134	116	106	150	128	SE
Hourly Avg	257	266	282	283	313	272	275	269	270	285	295	298	281	285	294	292	284	298	300	306	274	264	279	274		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2006 to February 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

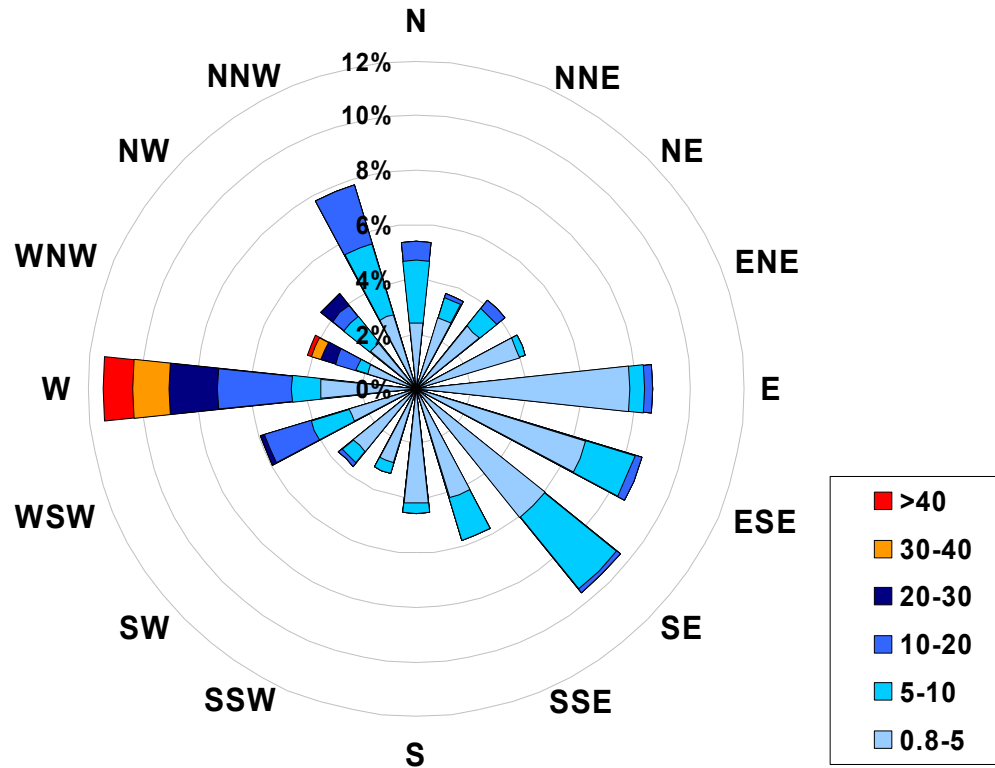
Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	24.0	19.0	12.0	8.0	7.0	4.0	3.0

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

Day	Mountain Standard Time																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Jan-06	9	7	14	6	9	8	5	6	7	7	10	10	14	8	12	7	5	9	5	6	10	20	18	4	20.0
2-Jan-06	10	16	10	11	12	18	13	8	7	4	6	15	8	8	16	13	5	8	6	6	6	13	17	3	18.0
3-Jan-06	19	20	5	8	10	7	6	7	12	11	10	10	14	12	23	12	12	5	9	7	7	5	16	8	23.0
4-Jan-06	4	10	5	8	13	6	9	9	9	14	15	11	8	11	7	6	29	5	14	10	8	11	8	8	29.0
5-Jan-06	7	10	7	4	8	9	9	10	11	11	13	6	7	10	15	15	23	19	7	7	7	6	7	7	23.0
6-Jan-06	7	16	8	6	14	6	15	11	9	5	7	5	6	6	5	5	7	9	6	7	10	6	8	5	16.0
7-Jan-06	10	11	6	5	5	7	8	5	4	10	10	4	7	10	9	14	11	6	7	7	14	4	8	10	14.0
8-Jan-06	4	8	9	6	6	14	15	7	5	6	5	8	9	8	5	7	15	5	8	11	9	19	15	15	19.0
9-Jan-06	15	9	15	15	17	9	8	7	6	7	7	7	7	7	7	6	6	5	7	8	7	7	14	9	17.0
10-Jan-06	11	11	10	14	18	15	15	6	7	8	8	5	6	9	7	2	3	2	6	7	7	7	6	10	18.0
11-Jan-06	13	8	4	4	9	20	18	11	2	6	11	7	13	13	10	9	13	2	5	17	19	7	7	14	20.0
12-Jan-06	4	7	4	9	7	16	11	9	16	4	6	8	13	6	5	5	9	8	10	9	11	9	12	19	19.0
13-Jan-06	11	18	10	11	14	19	12	7	5	6	5	16	6	11	12	12	14	4	6	11	9	7	7	7	19.0
14-Jan-06	6	6	5	6	4	9	15	18	18	17	20	13	20	20	12	12	15	8	7	10	6	5	5	5	20.0
15-Jan-06	8	11	10	9	8	7	6	7	7	8	8	9	7	7	8	11	16	16	15	19	17	15	18	14	19.0
16-Jan-06	15	14	10	8	11	11	7	5	3	7	11	13	7	9	7	10	4	15	11	21	13	21	21	17	21.0
17-Jan-06	23	20	9	12	4	5	4	3	4	5	8	4	7	6	8	8	11	6	21	8	5	10	15	17	23.0
18-Jan-06	19	16	18	18	17	17	16	11	8	11	11	9	8	12	10	12	9	17	18	14	15	13	12	10	19.0
19-Jan-06	8	7	9	7	6	4	6	6	4	6	11	12	11	9	9	6	8	12	17	10	18	7	6	11	18.0
20-Jan-06	9	13	8	6	14	11	4	10	3	4	8	11	7	7	14	12	11	13	5	5	9	7	8	4	14.0
21-Jan-06	4	9	4	5	6	8	12	16	11	15	17	12	12	13	27	8	6	6	7	19	12	5	5	5	27.0
22-Jan-06	5	5	4	5	7	7	6	6	6	5	5	6	4	10	6	19	9	7	7	7	7	7	6	7	19.0
23-Jan-06	6	6	7	7	7	6	7	6	6	7	7	8	9	9	9	10	9	8	6	7	8	10	15	14	15.0
24-Jan-06	14	9	11	8	7	7	12	4	9	8	15	17	24	20	7	8	10	25	10	29	39	15	21	5	39.0
25-Jan-06	10	19	11	8	8	10	13	9	6	17	12	18	20	28	14	9	12	10	9	16	9	6	7	8	28.0
26-Jan-06	6	6	6	14	21	12	5	3	8	23	24	19	20	17	17	16	17	11	12	17	9	10	8	8	24.0
27-Jan-06	8	10	7	7	7	8	6	6	7	7	9	8	7	8	7	6	4	3	5	7	8	5	8	17	17.0
28-Jan-06	2	7	11	11	13	12	23	15	9	8	21	7	7	14	15	11	7	8	7	9	17	17	10	9	23.0
29-Jan-06	7	19	23	6	7	8	11	16	28	21	8	7	6	7	7	4	3	15	5	6	11	9	8	6	28.0
30-Jan-06	6	9	10	21	16	10	10	9	7	7	16	14	11	10	9	8	6	4	1	3	8	8	9	8	21.0
31-Jan-06	6	9	15	6	13	9	4	7	13	11	12	14	10	6	7	13	14	12	9	8	8	8	8	13	15.0

Hourly Max	23	20	23	21	21	20	23	18	28	23	24	19	24	28	27	19	29	25	21	29	39	21	21	19
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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



Calms: 5%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	441
5	to	10	147
10	to	20	75
20	to	30	22
30	to	40	13
	>	40	9
Total Non-Zero Values			707

PEACE AIRSHED ZONE ASSOCIATION
PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for January 2006

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
23a	Bear Lake	0.5	21.3	4.9	
23b	Bear Lake	0.5	24.2	4.8	
28a	Clairmont Lake	0.5	22.9	4.9	
28b	Clairmont Lake	0.5	24.0	5.3	
38a	Karr Creek	0.1	19.3	1.9	
38b	Karr Creek	0.1	19.4	1.7	
49a	Grande Prairie HP	0.4	4.2	18.9	
49b	Grande Prairie HP	0.4	12.0	18.4	
1	Silver Valley	0.6	23.3	2.9	08-27-081-11 W6M
2	Bay Tree	0.3	24.6	1.7	13-16-078-13 W6M
3	Forth Creek	0.6	31.0	2.1	04-13-082-07 W6M
4	Gordondale	0.5	29.9	3.0	04-34-078-10 W6M
5	Boone Creek	0.4	19.9	3.4	01-23-076-11 W6M
7	Steepprock Creek	0.3	29.3	3.4	09-35-072-13 W6M
9	Spirit River	0.4	22.8	2.6	08-12-079-07 W6M
10	Woking	0.6	27.5	2.4	01-13-076-07 W6M
11	Webber Creek	0.4	20.3	4.9	09-36-074-09 W6M
12	Hythe	0.3	19.1	5.1	14-36-072-11 W6M
14	Sylvester	0.2	18.3	2.4	08-06-069-12 W6M
16	Beaverlodge	0.4	21.6	6.6	15-36-071-10 W6M
17	Poplar	0.4	19.1	4.9	13-06-073-08 W6M
18	Saddle Hills	0.5	29.4	2.5	04-25-074-07 W6M
19	Wanham	0.6	27.1	2.9	16-22-077-03 W6M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
20	Shaftesbury	0.3	19.0	2.0	04-03-082-23 W5M
21	Eaglesham	0.3	18.5	1.9	16-21-079-25 W5M
23	Bear Lake	0.5	22.7	4.9	15-31-072-06 W6M
24	Wembley	0.3	18.3	6.6	12-31-070-08 W6M
25	Pinto Creek	0.2	20.1	3.0	04-24-069-11 W6M
26	Flyingshot	0.2	14.6	7.1	15-36-070-07 W6M
27	Grande Prairie I	missing	missing	missing	08-15-071-06 W6M
28	Clairmont Lake	0.5	23.5	5.1	09-06-073-04 W6M
29	Smoky Heights	0.5	22.7	4.0	04-06-075-02 W6M
30	Fitzsimmons	0.3	20.8	4.2	15-36-072-03 W6M
32	Gold Creek	0.4	12.6	4.7	06-33-067-05 W6M
33	Wapiti	0.3	18.2	4.3	02-25-071-03 W6M
34	Puskwaskau	0.1	20.8	1.3	15-35-074-25 W5M
35	Jean Cote	0.3	26.8	2.5	12-35-079-21 W5M
36	Guy	0.3	21.9	2.2	03-04-076-22 W5M
37	Crooked Creek	0.4	24.5	4.2	16-01-071-26 W5M
38	Karr Creek	0.1	19.3	1.8	10-16-065-02 W6M
39	Clouston Creek	0.5	22.9	3.6	12-01-073-22 W5M
40	McLennan	0.3	26.4	1.9	03-29-077-19 W5M
41	Valleyview	0.7	25.8	4.1	09-30-069-22 W5M
42	Sunset House	0.6	32.3	2.0	05-32-070-19 W5M
43	High Prairie	0.2	22.1	3.3	16-13-074-17 W5M
44	Peavine	0.6	22.4	1.5	03-05-079-15 W5M
45	Gift Lake	0.2	22.5	2.9	10-07-079-12 W5M
46	Little Smoky	0.4	16.3	6.6	12-01-065-21 W5M
47	Kinuso	0.1	16.1	2.6	12-10-073-10 W5M
48	Deer Mountain	0.4	29.2	1.5	15-22-068-09 W5M
49	Grande Prairie HP	0.4	8.1	18.6	17-26-071-06 W6M

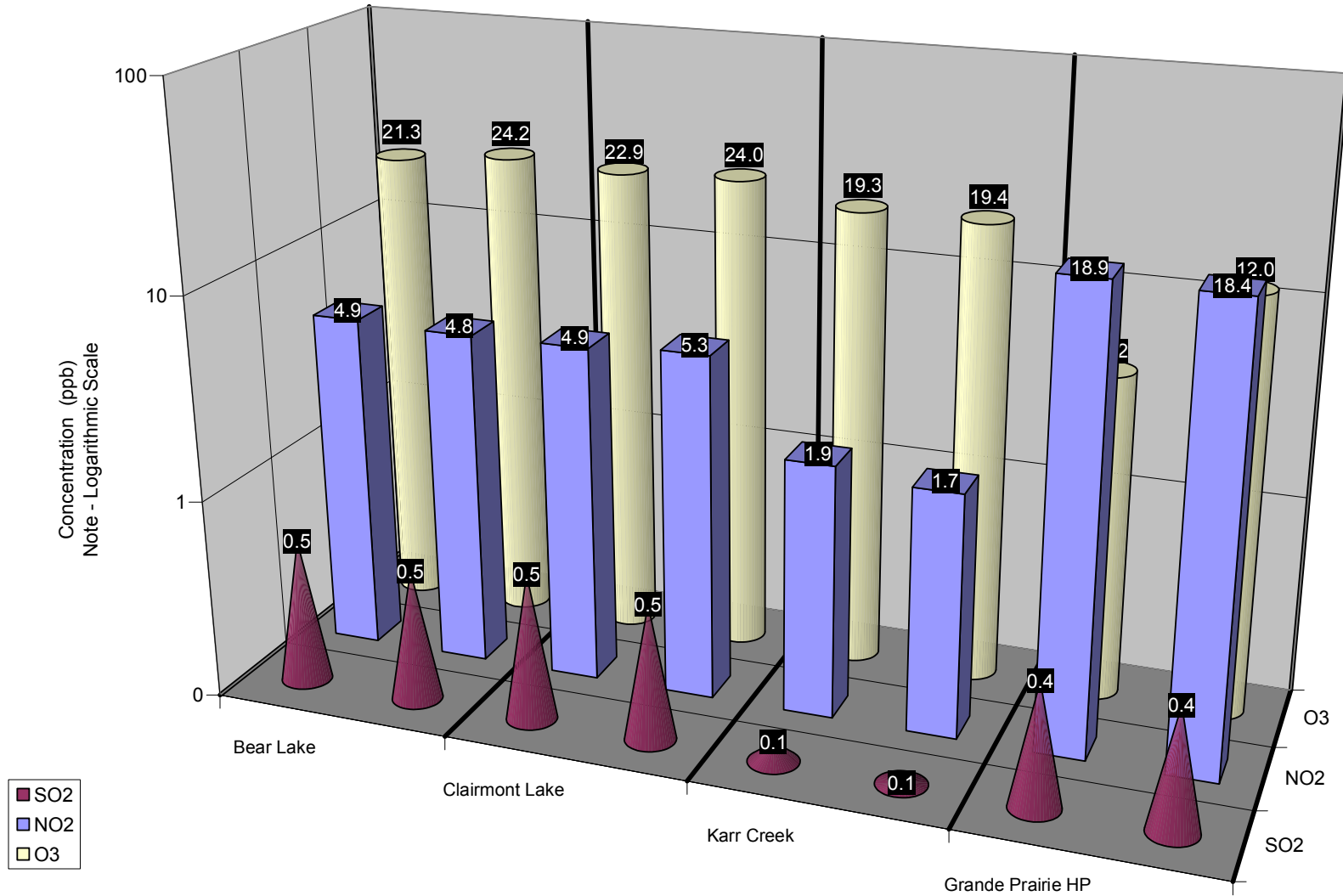


Figure 46. Duplicate Summary Chart

Table 2. Passive Summary Results for January 2006

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for January 2006 (PASZA Zone)			
Mean	0.4	22.2	3.8
Standard Deviation	0.1	5.0	2.8
Minimum	0.1	8.1	1.3
Maximum	Karr Creek (#38) 0.7	Grande Prairie HP (#49) 32.3	Puskwaskau (#34) 18.6
	Valleyview (#41)	Sunset House (#42)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.6	20.0	9.9
PASZA Beaverlodge passive	0.4	21.6	6.6
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.8	9.4	18.8
PASZA Grande Prairie passive	0.4	8.1	18.6

PASZA Passive SO₂ Stations - January 2006
Average Concentrations in ppb

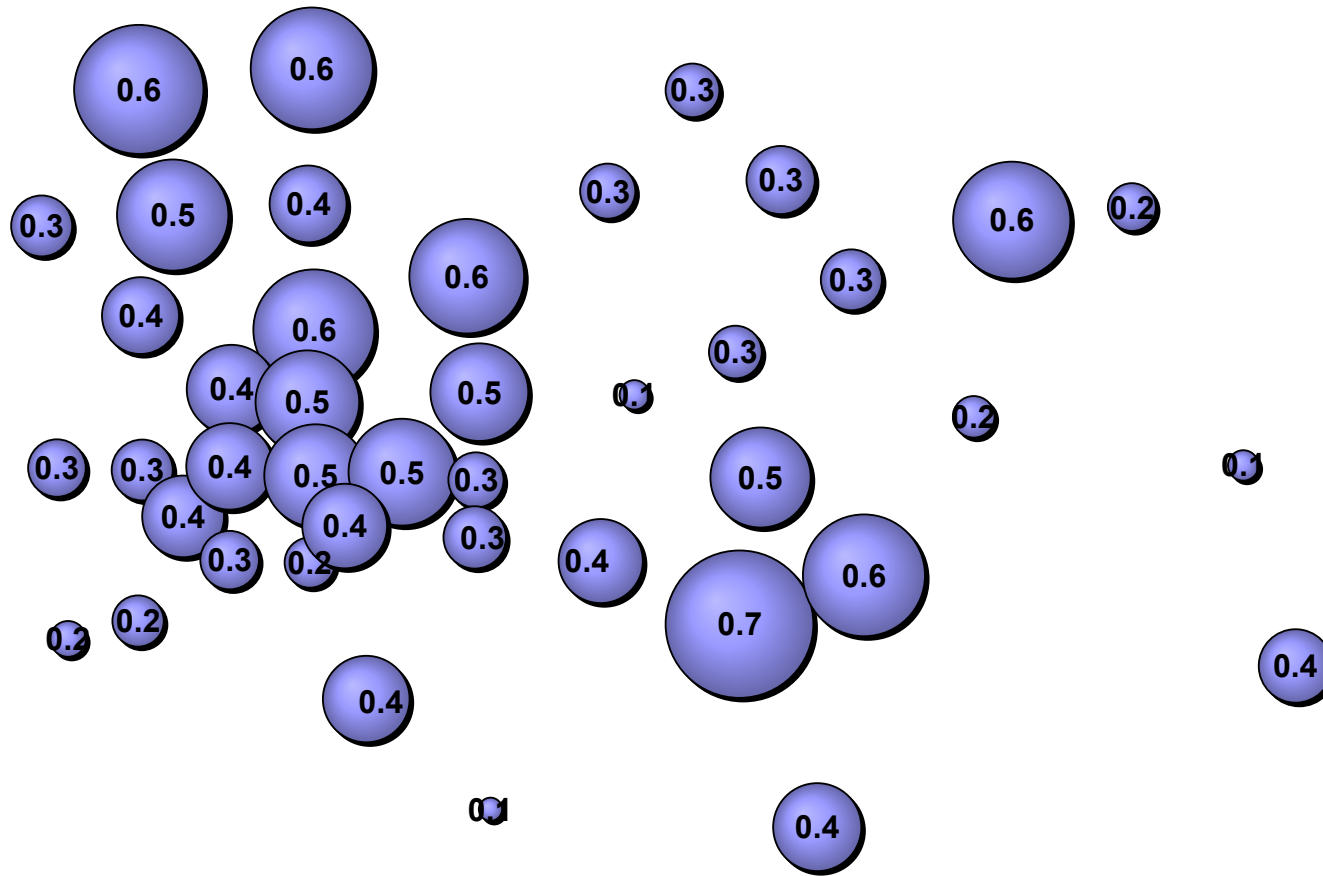


Figure 47. SO₂ Bubble Chart

Alberta Ambient Air Quality Guidelines - Annual SO₂ Guideline is 11 ppb

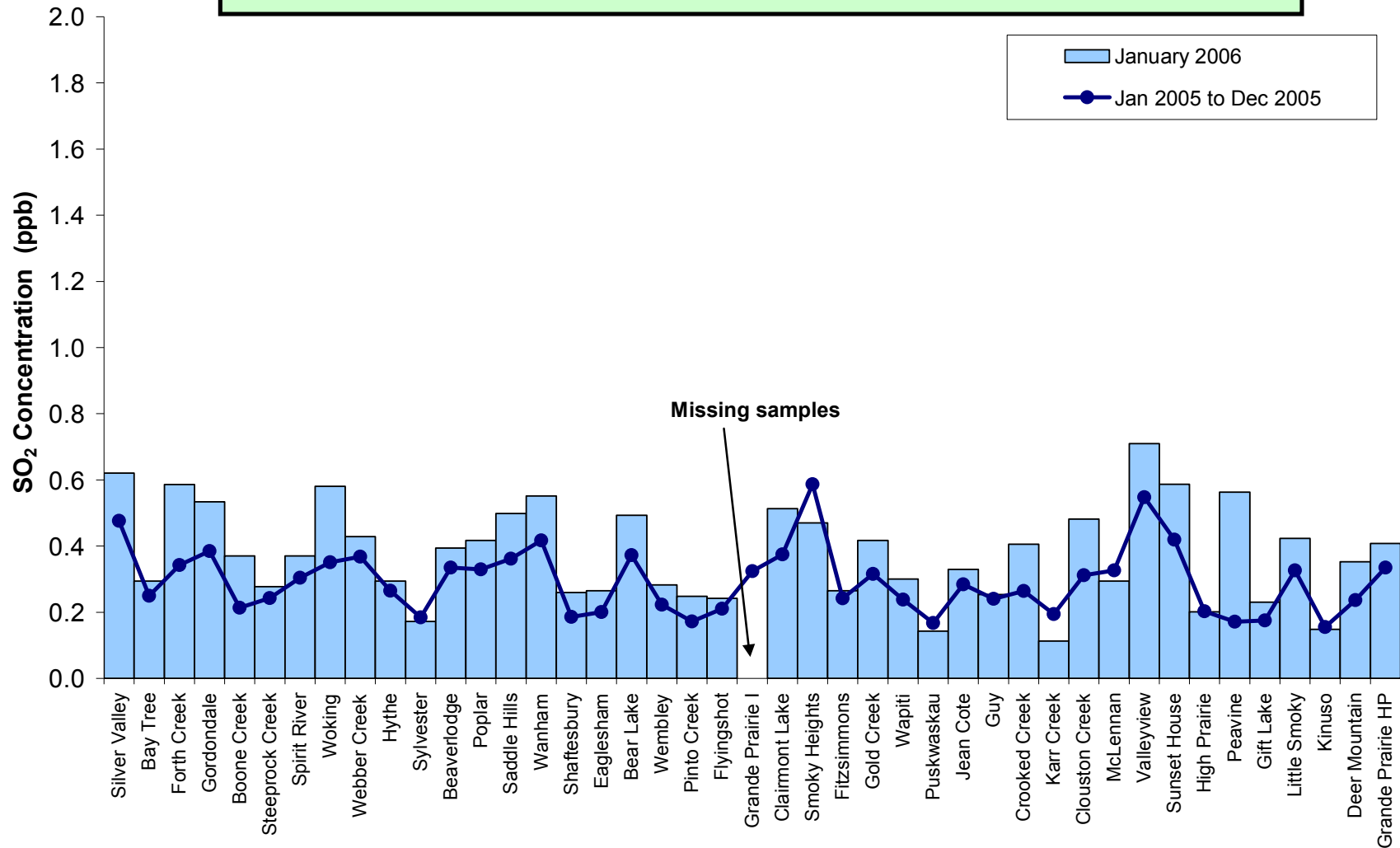


Figure 48. SO₂ Summary Chart

PASZA Passive O₃ Stations - January 2006
Average Concentrations in ppb

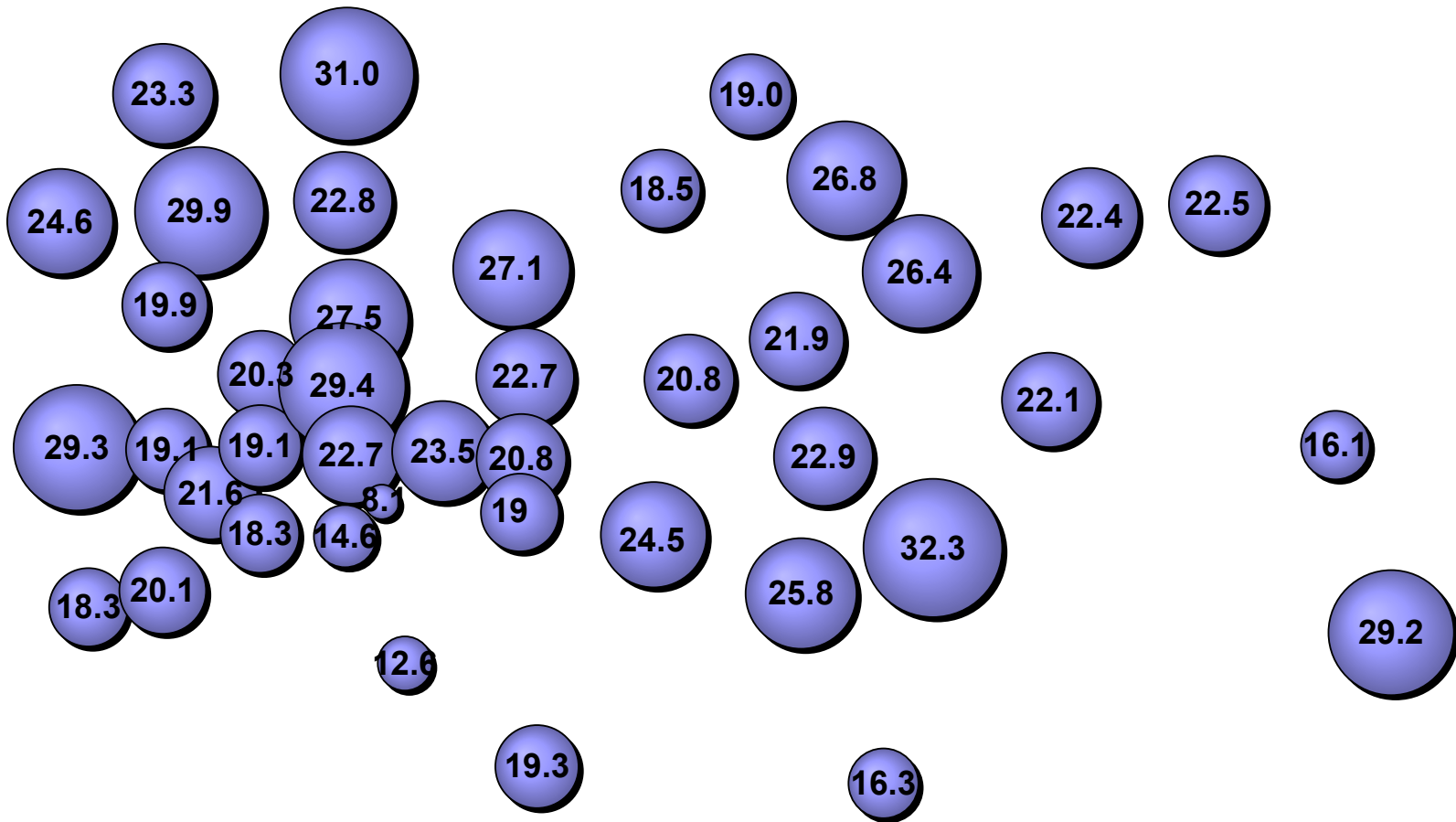


Figure 49. O₃ Bubble Chart

Alberta Ambient Air Quality Guidelines - No Annual O₃ Guideline

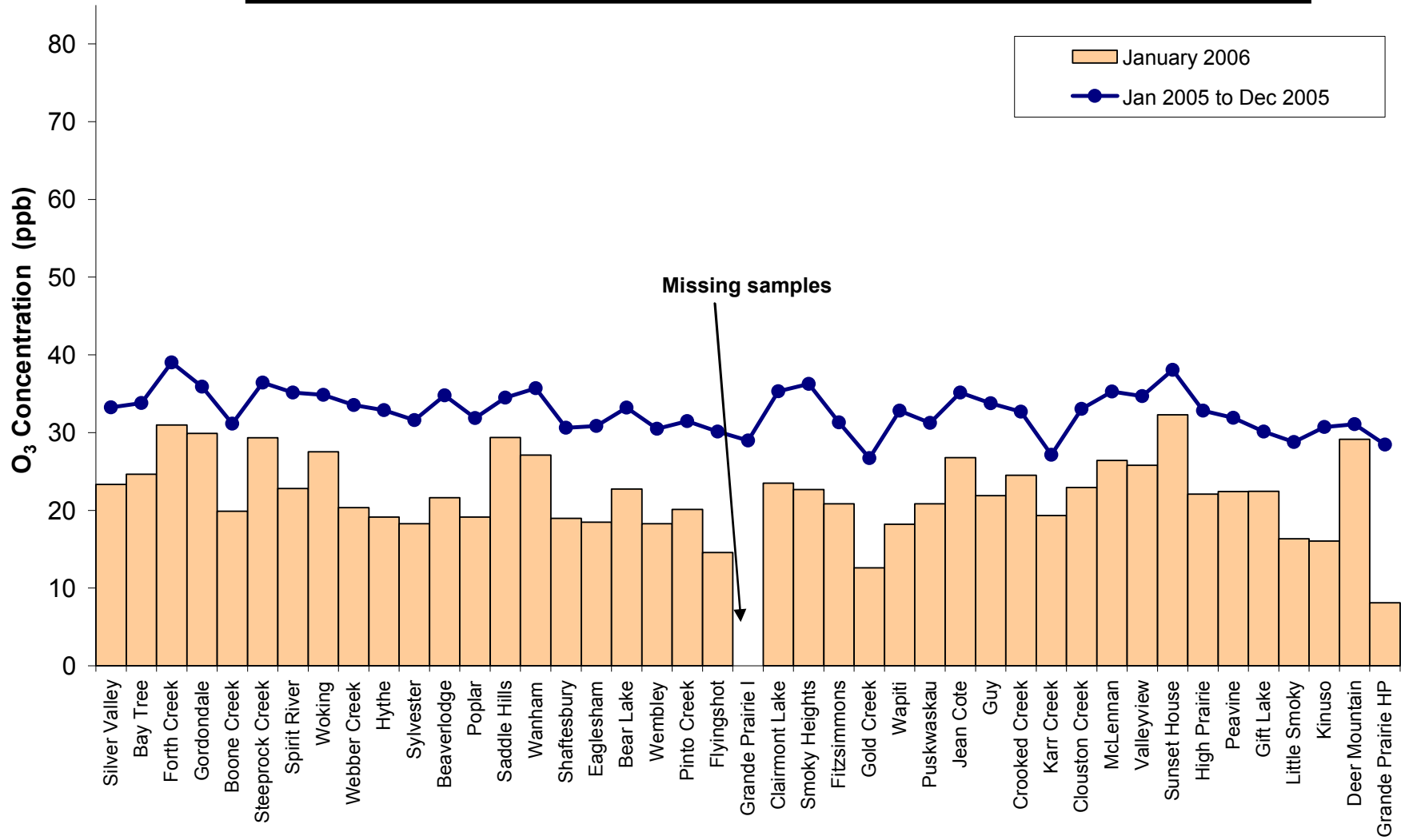


Figure 50. O₃ Summary Chart

PASZA Passive NO₂ Stations - January 2006
Average Concentrations in ppb

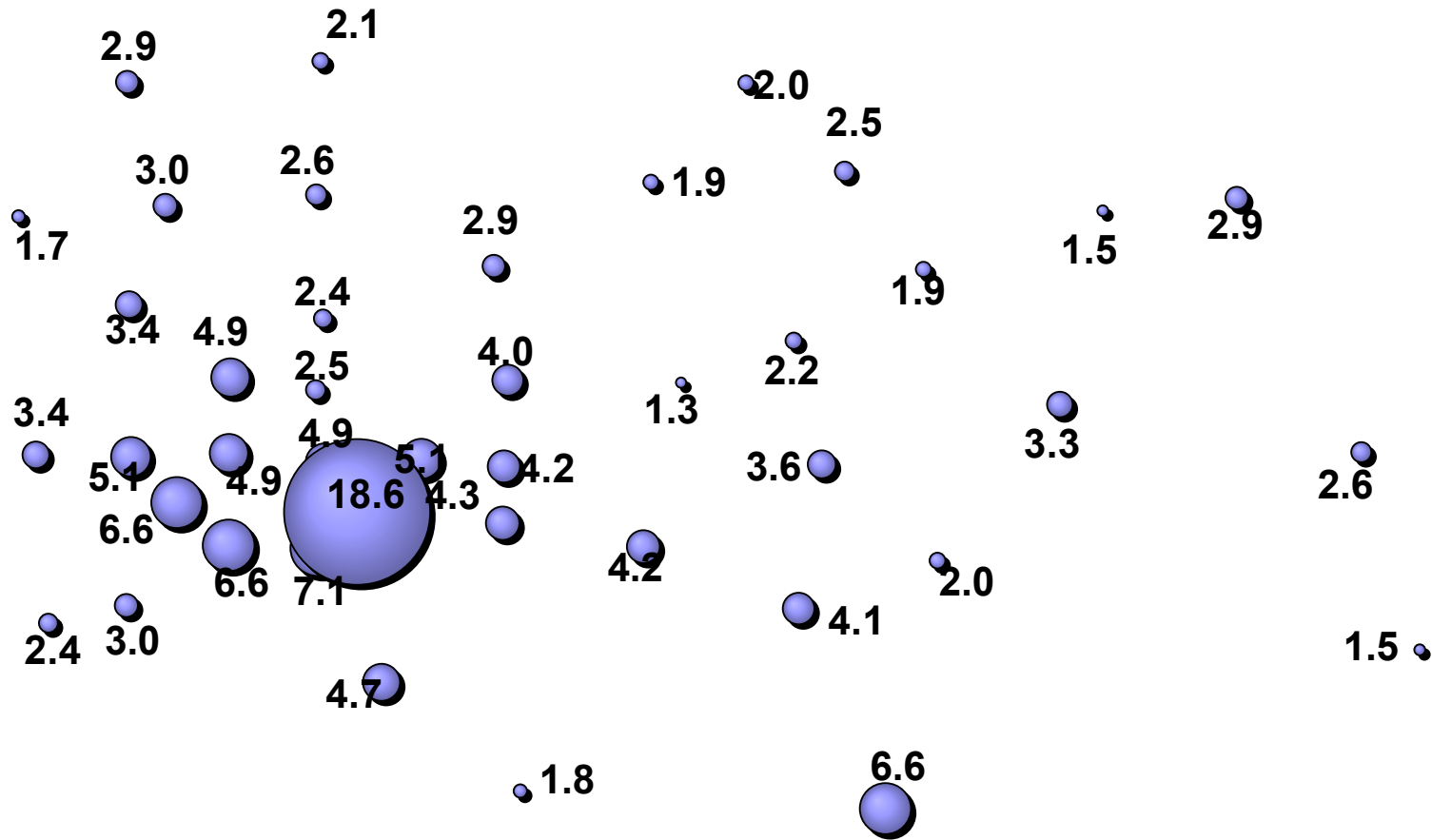


Figure 51. NO₂ Bubble Chart

Alberta Ambient Air Quality Guidelines - Annual NO₂ Guideline is 32 ppb

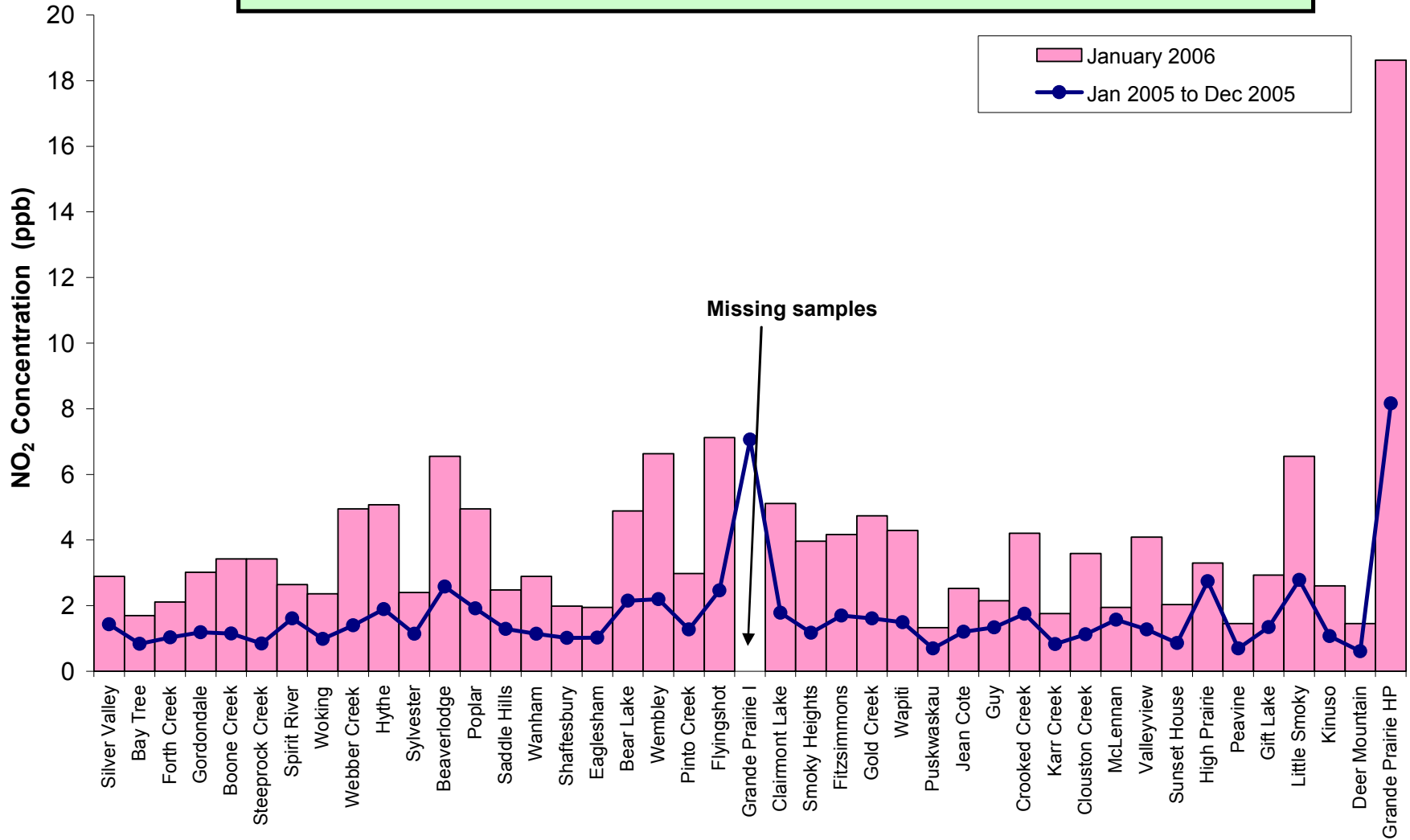


Figure 52. NO₂ Summary Chart

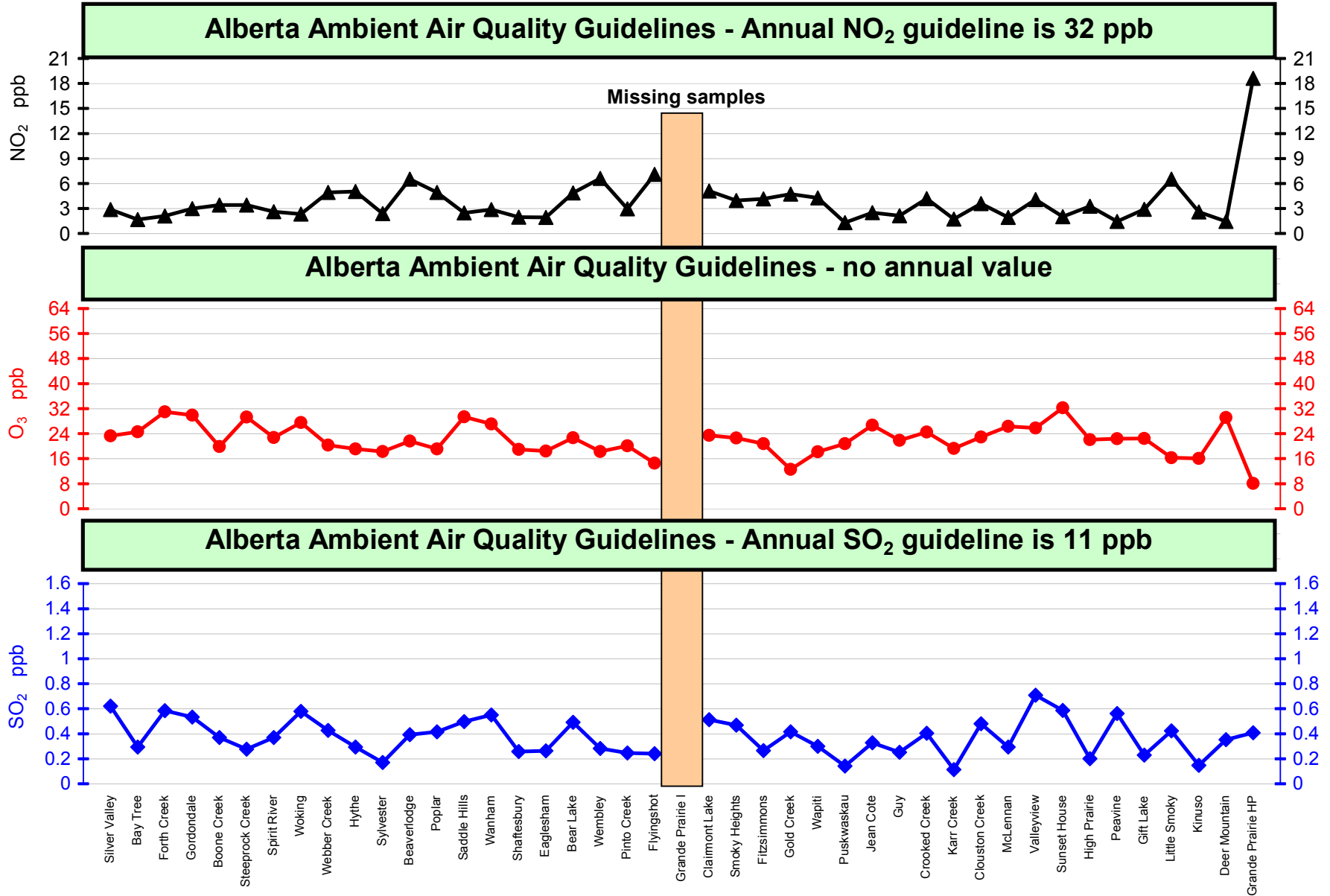


Figure 53. Overview Summary

January 2006 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

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

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, PM_{2.5}

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

Calibration Date	January 31, 2006	Previous Calibration	December 2, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:45	End Time (MST)	14:00
Barometric Pressure	27.4 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	
Correction factor	0.931743	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	0.999180	Calculated slope	0.998011
Calculated intercept	-0.885845	Calculated intercept	-0.257885
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	170		174	
SO2 span pot	195		210	
UV Lamp voltage	948	V	950	V
Vacuum	17.7	" Hg	17	" Hg
Sample Flow	420	ccm	415	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	2049.8	0.0	-0.5	N/A
2200	2049.8	390.5	391.1	0.9984
5000	4658.7	171.8	173.0	0.9930
8975	8362.4	95.7	96.7	0.9897
zero	2003.2	0.0	-0.1	As Found Zero
2150	2003.2	399.6	392.7	As Found Span
Average Correction Factor				0.9937

Calculated value of As Found Response: 391.620 ppm Percent Change of As Found: 2.0%

	before calibration		after calibration	
Auto zero	-1.2	ppm	-1.0	ppm
Auto span	333.1	ppm	341.2	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

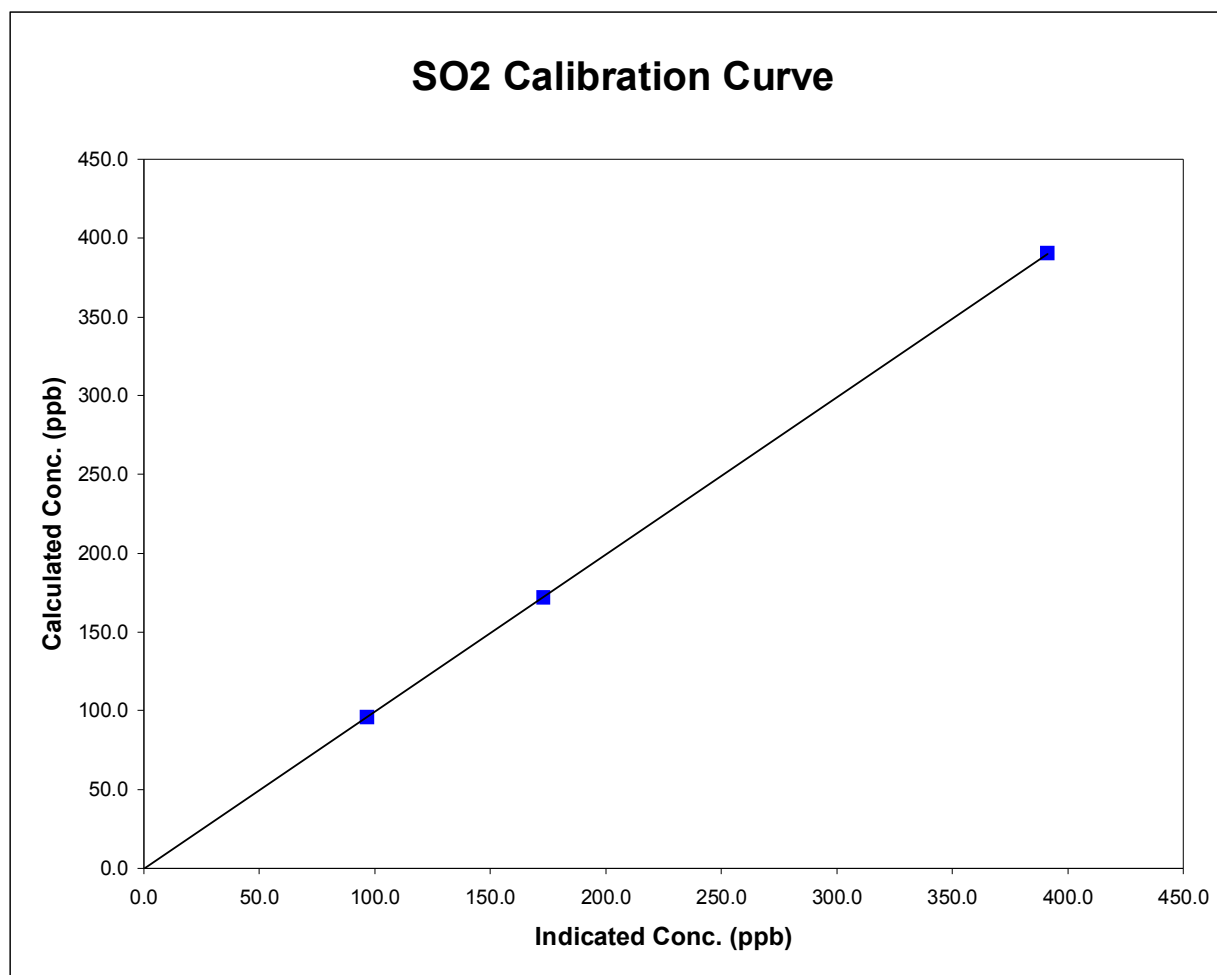
Parameter SO2Air Monitoring Network PASZA

Station Information

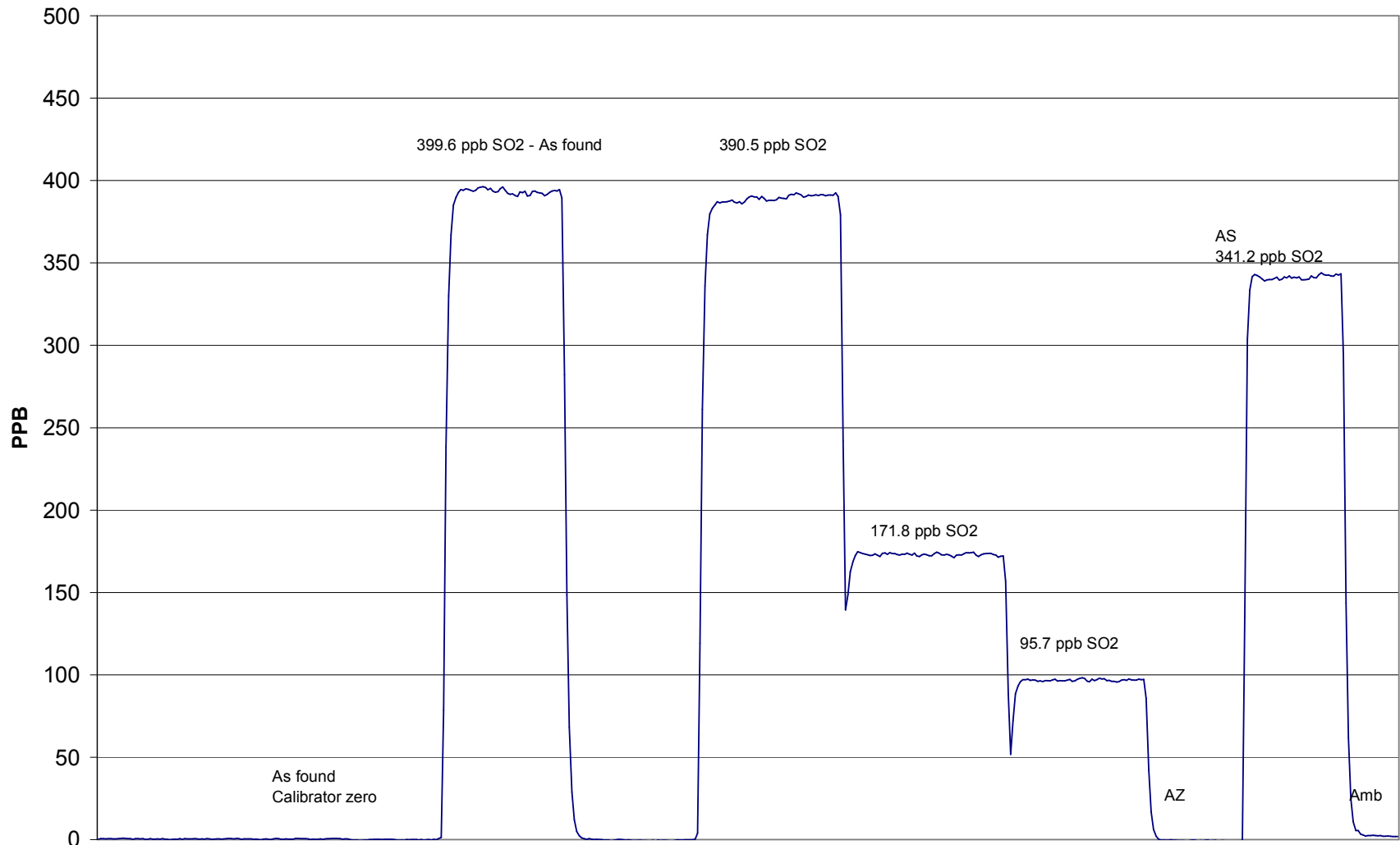
Calibration Date	January 31, 2006	Previous Calibration	December 2, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:45	End Time (MST)	14:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
390.5	391.1	0.9984	Correlation Coefficient	0.999983
171.8	173.0	0.9930		
95.7	96.7	0.9897		
			Slope	0.998011
			Intercept	-0.257885



SO2 Calibration



January 31, 2006

Calibration Report

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

**Station Information**

Calibration Date	<u>January 16, 2006</u>	Previous Calibration	<u>December 3, 2005</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:50</u>	End Time (MST)	<u>14:45</u>
Barometric Pressure	<u>0.927</u> <u>Atm</u>	Station Temperature	<u>20.0</u> <u>Deg C</u>
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.3</u> <u>ppm</u>	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> <u>ppm</u>	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.994541	1.002432	0.996563
	Data Offset	0.972585	-1.327099	-0.370086
After	Data Slope	1.002821	1.001121	0.998331
	Data Offset	-0.369748	0.048967	0.346388
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.4	ppb	7.7	mV
NOx background	7.5	ppb	7.9	mV
NO coefficient	0.873		0.901	
NOx coefficient	0.955		0.965	
Chamber Temp	49.6	Deg C	49.8	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	194.5	mm Hg	186.6	mm Hg

Notes: Adjusted span

Calibration Report

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



Station Information

Calibration Date: January 16, 2006 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.5	0.4	0.0	N/A	N/A
1	4992	39.88	400.2	398.7	1.6	400.5	399.8	0.8	0.9994	0.9972
2	4992	19.91	200.6	199.8	0.8	198.6	198.1	0.6	1.0101	1.0086
3	4992	9.50	95.9	95.5	0.4	96.2	95.5	0.8	0.9969	1.0009
AFZ	4992	0.00	0.0	0.0	0.0	0.5	0.4	0.0	0.0000	0.0000
AFS	4992	39.88	400.2	398.7	1.6	381.3	385.7	-4.4	1.0495	1.0336
Average Correction Factor									1.0021	1.0022

As Found Concentrations: NO_x= 379.5 NO= 384.9 As Found Percent Change NO_x= -5.2% NO= -3.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

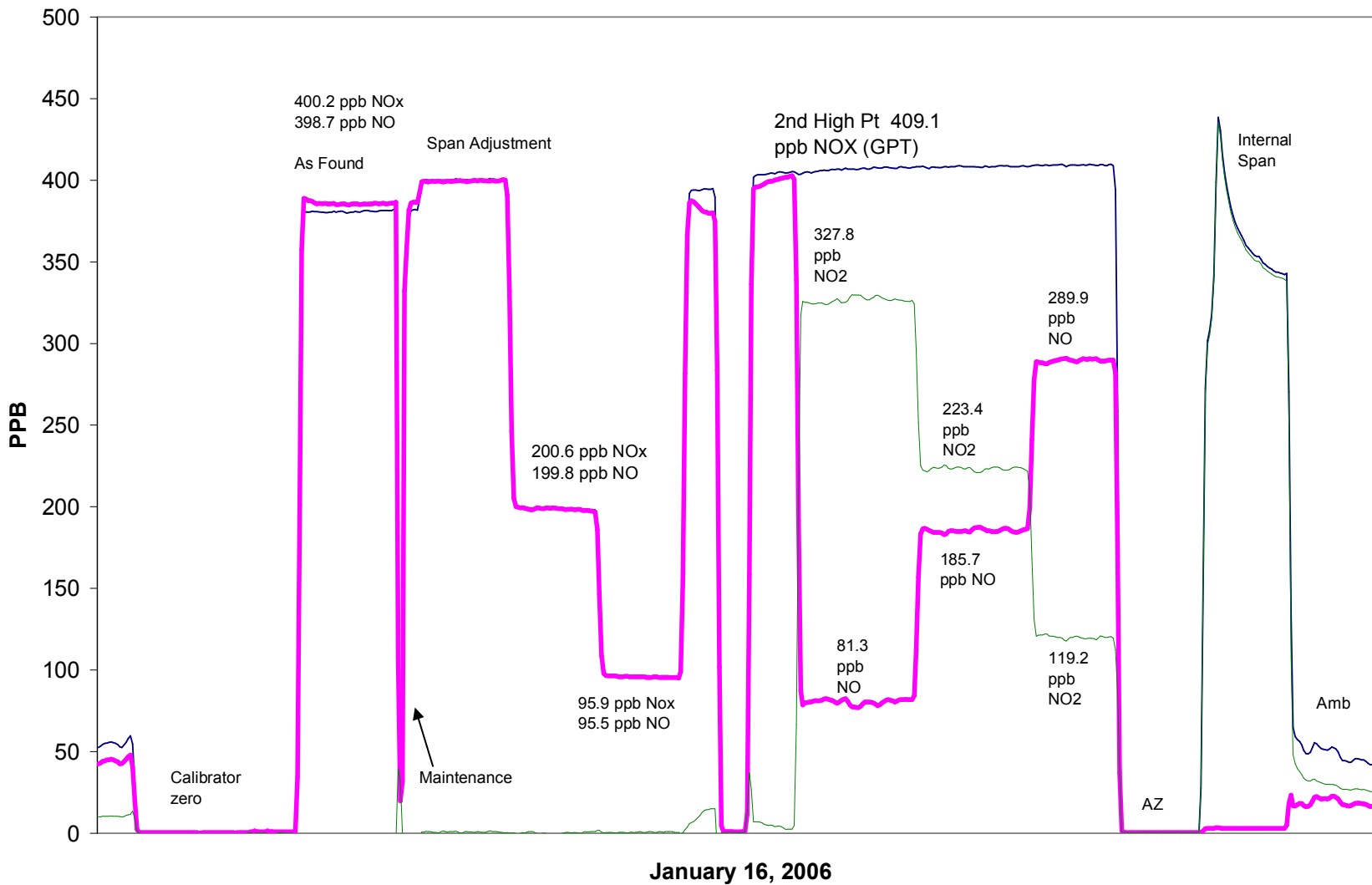
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	409.1	400.7	8.3	404.7	401.1	3.7	1.0107	0.9992	N/A	N/A
300	409.1	81.3	327.8	407.7	81.1	326.9	1.0033	1.0026	1.0026	99.7%
200	409.1	185.7	223.4	408.6	185.6	223.3	1.0011	1.0002	1.0005	100.0%
100	409.1	289.9	119.2	409.4	290.0	119.7	0.9993	0.9995	0.9955	100.5%
Average Correction Factor							1.0012	1.0008	0.9995	100.0%

AIC Data

	Previous calibration				Current calibration			
Parameter	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.4	1.4	1.0	ppb	-0.3	1.5	0.8	ppb
Auto span	87.2	88.0	0.5	ppb	345.4	342.5	3.5	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



Calibration Summary

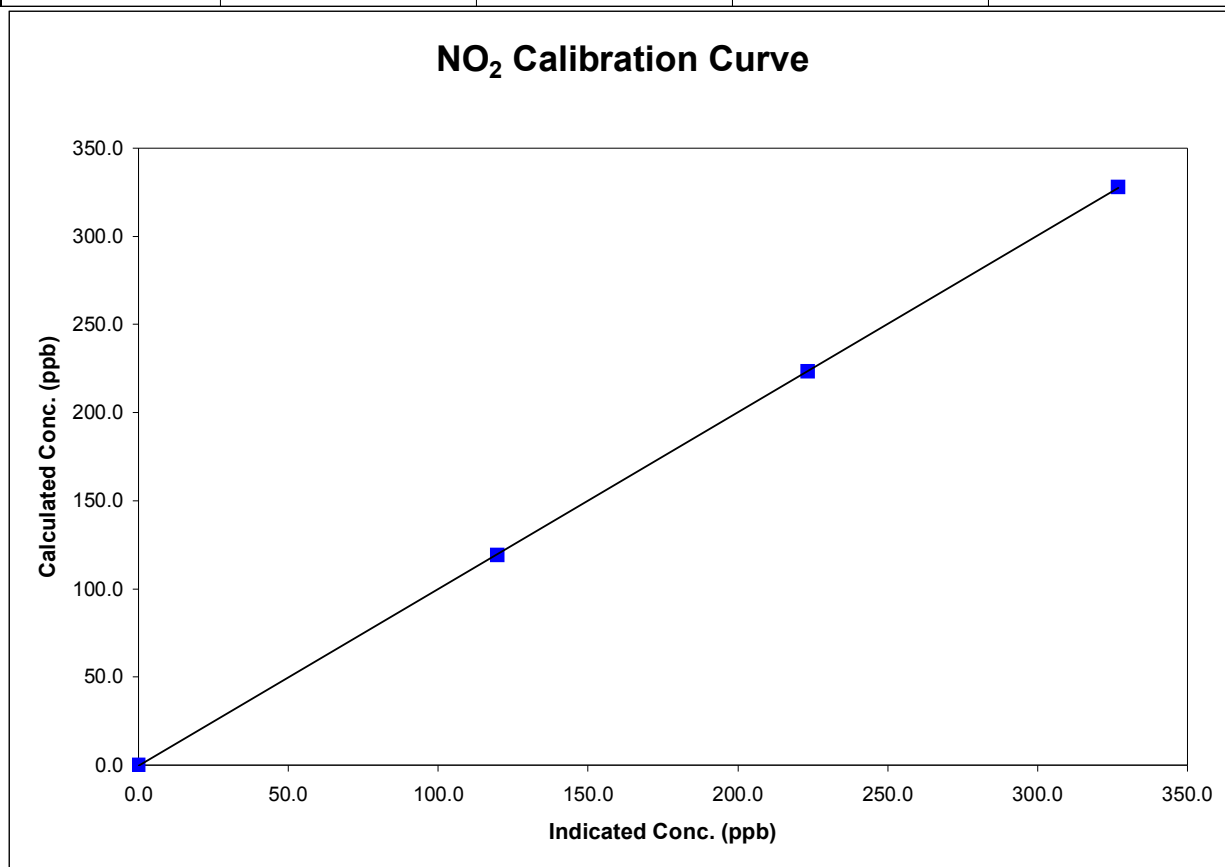
Parameter NO₂Air Monitoring Network PASZA

Station Information

Calibration Date	January 16, 2006	Previous Calibration	December 3, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:50	End Time (MST)	14:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000	Correlation Coefficient	0.999991
327.8	326.9	1.0026		
223.4	223.3	1.0005		
119.2	119.7	0.9955		
			Slope	1.002821
			Intercept	-0.369748



Calibration Summary

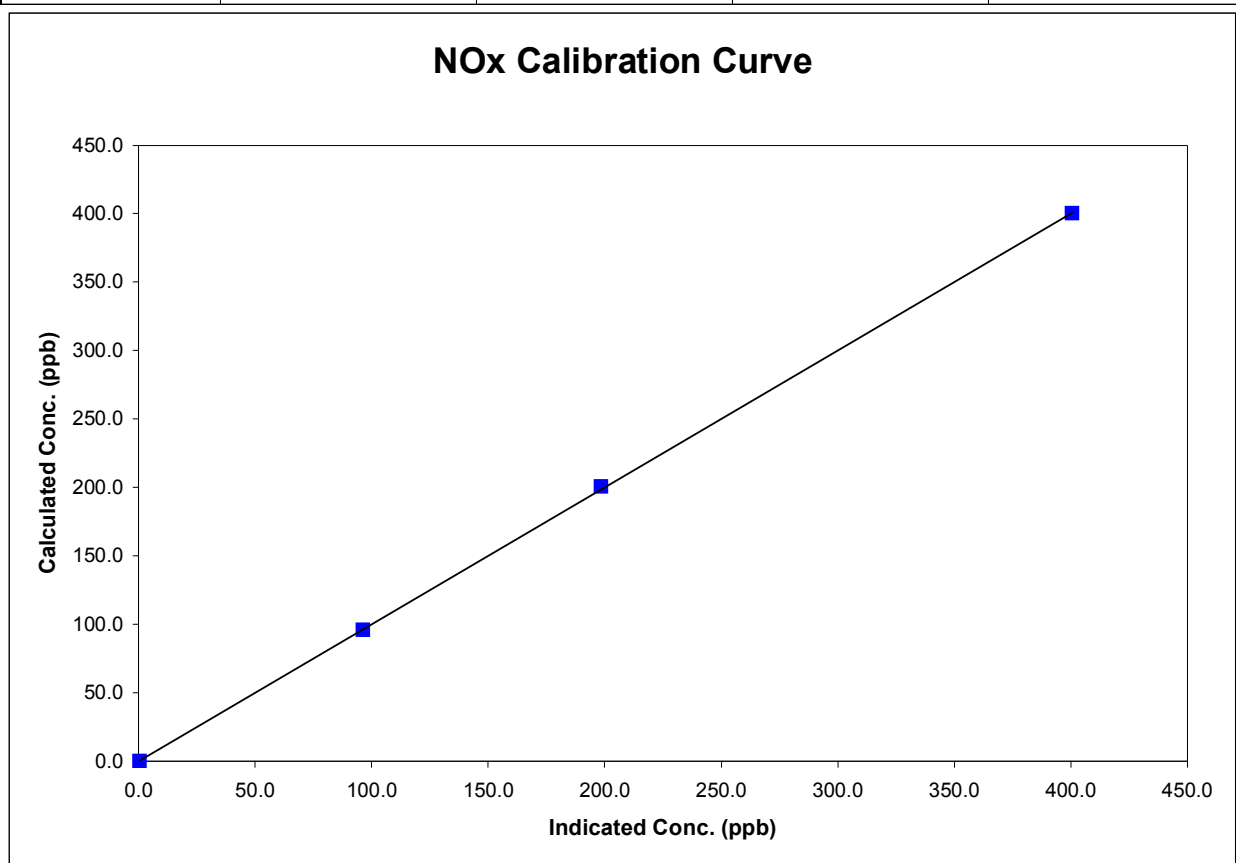
Parameter NO_xAir Monitoring Network PASZA

Station Information

Calibration Date	January 16, 2006	Previous Calibration	December 3, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:50	End Time (MST)	14:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	0.0000	Correlation Coefficient	0.999953
400.2	400.5	0.9994		
200.6	198.6	1.0101		
95.9	96.2	0.9969		
			Slope	1.001121
			Intercept	0.048967



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

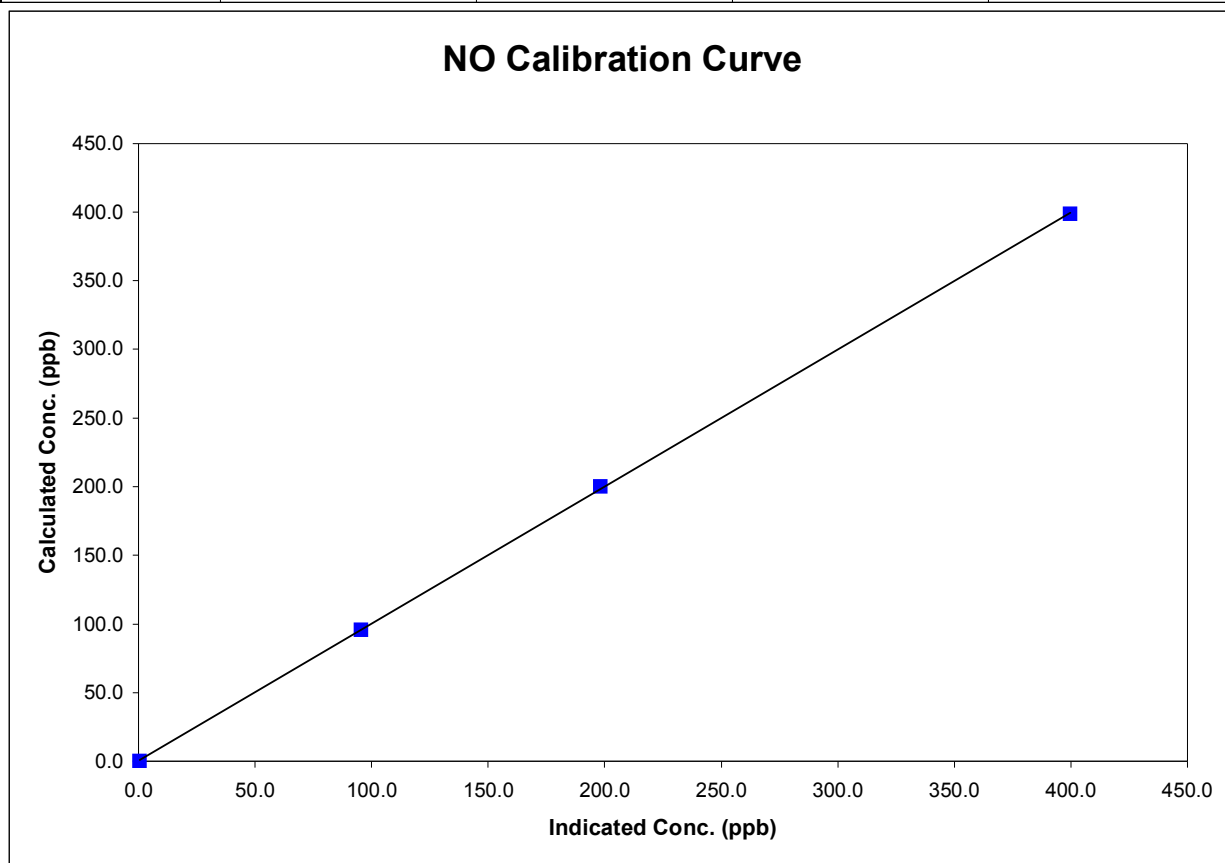


Station Information

Calibration Date	January 16, 2006	Previous Calibration	December 3, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:50	End Time (MST)	14:45
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
398.7	399.8	0.9972	Correlation Coefficient	0.999953
199.8	198.1	1.0086		
95.5	95.5	1.0009	Slope	0.998331
			Intercept	0.346388

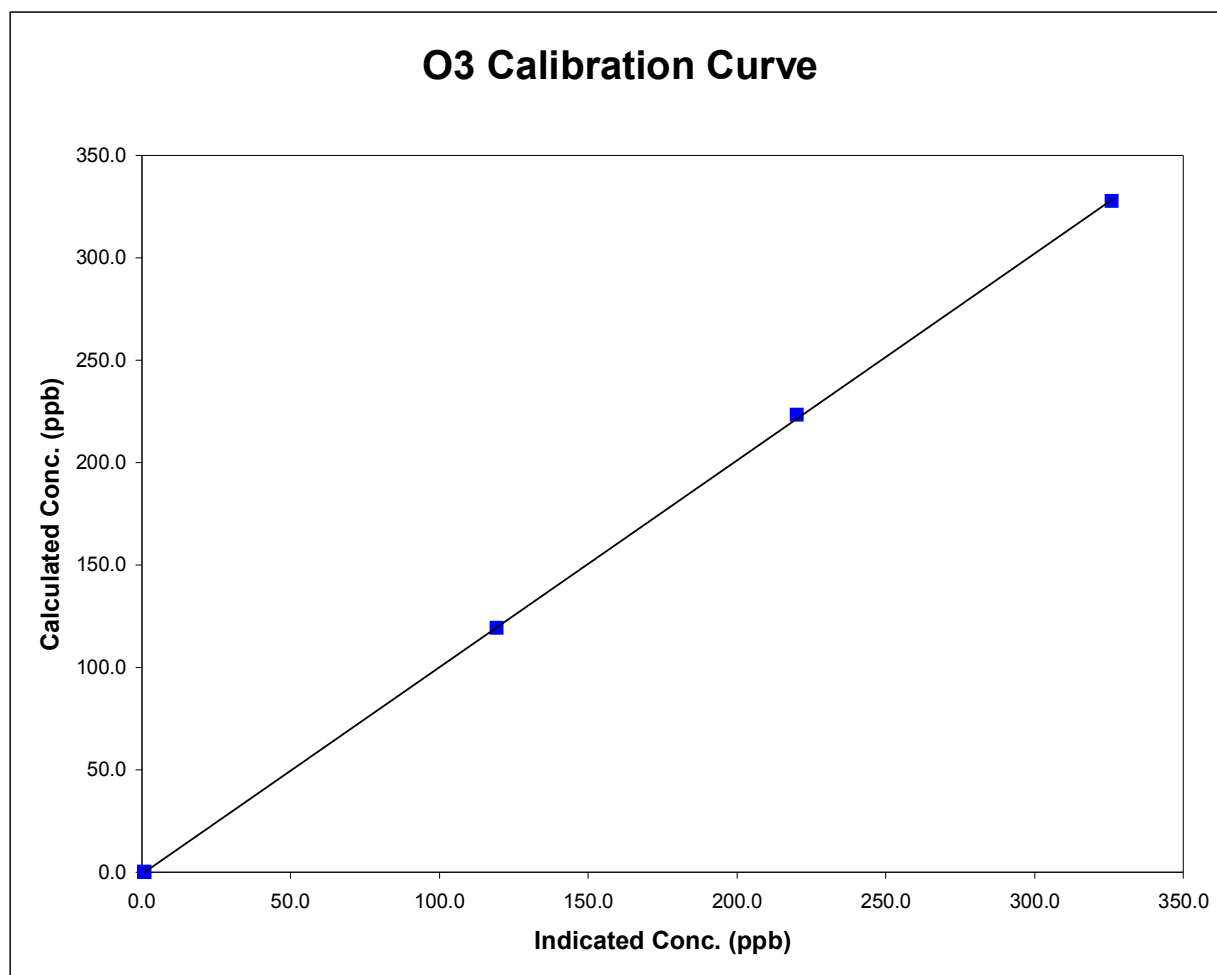


Calibration SummaryParameter O3 Air Monitoring Network PASZA **Station Information**

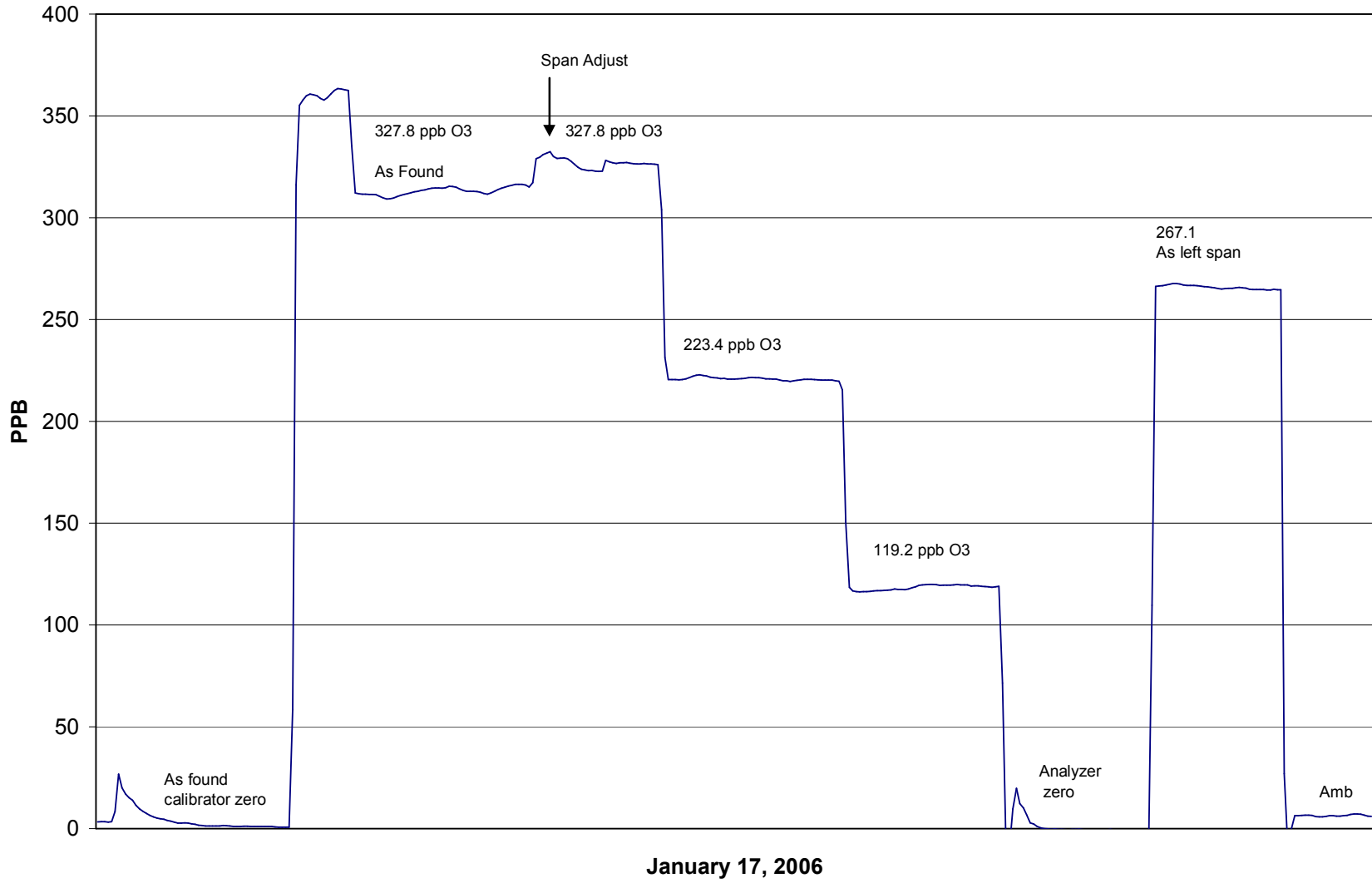
Calibration Date	January 17, 2006	Previous Calibration	December 5, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:30	End Time (MST)	12:30
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	NA		
327.8	326.0	1.0055	Correlation Coefficient	0.999935
223.4	220.2	1.0145		
119.2	119.3	0.9991	Slope	1.010721
			Intercept	-0.805358



O3 Calibration



Calibration Report



Parameter CO
 Air Monitoring Network PASZA

Station Information

Calibration Date	January 17, 2006	Previous Calibration	December 5, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:28	End Time (MST)	15:02
Barometric Pressure	0.911 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.007900	Calculated slope	0.999068
Calculated intercept	-0.088090	Calculated intercept	0.122904
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	3.441		3.441	
CO zero setting	1.018		1.018	
Sample pressure	690.9	mm Hg	690.9	mm Hg
Sample Flow	1.081	LPM	1.081	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)
4992	0.00	0.00	-0.01	N/A
4992	39.88	23.78	23.79	0.9996
4992	19.91	11.92	11.57	1.0298
4992	9.50	5.70	5.59	1.0196
4992	0.00	0.00	0.86	As Found Zero
4992	39.88	23.78	24.76	As Found Span
Average Correction Factor				1.0163

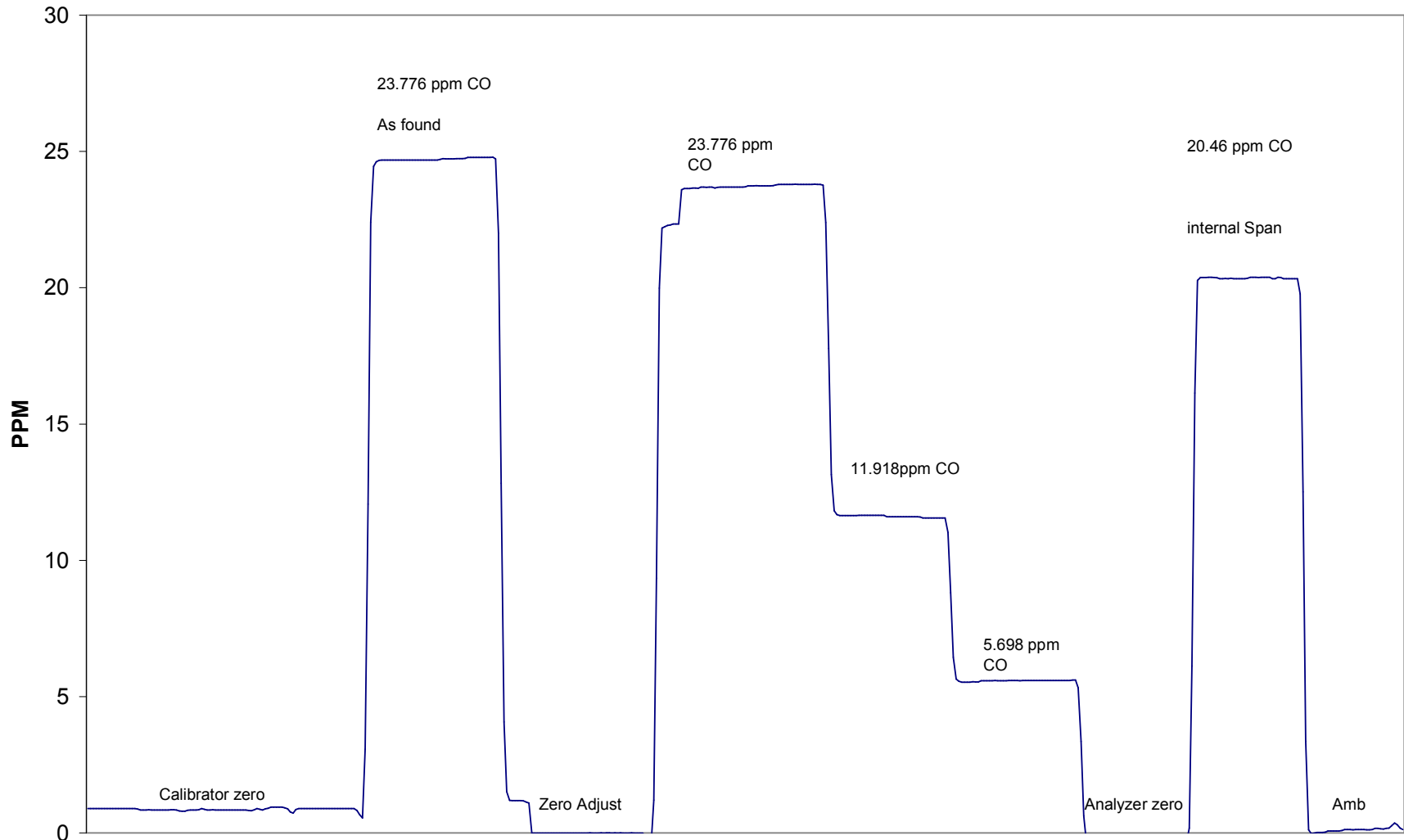
Calculated value of As Found Response: 24.000 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	0.01	ppm	-0.26	ppm
Auto span	19.31	ppm	20.46	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

CO Calibration



January 17, 2006

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

Calibration Date	January 23, 2006	Previous Calibration	December 5, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:26	End Time (MST)	14:17
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	0.998971	Calculated slope	0.995720
Calculated intercept	-0.008860	Calculated intercept	0.024122
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	7133	capture	7133	capture
THC zero counts	1437	capture	1437	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	64.83	19.52	19.62	0.9945
4992	34.89	10.57	10.50	1.0066
4992	9.50	2.89	2.89	1.0021
4992	0.00	0.00	0.23	As Found Zero
4992	64.83	19.52	19.25	As Found Span
Average Correction Factor				1.0011

Calculated value of As Found Response: 18.996 ppm Percent Change of As Found: 2.7%

	before calibration		after calibration	
Auto zero	-0.05	ppm	0.24	ppm
Auto span	22.00	ppm	22.65	ppm

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

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

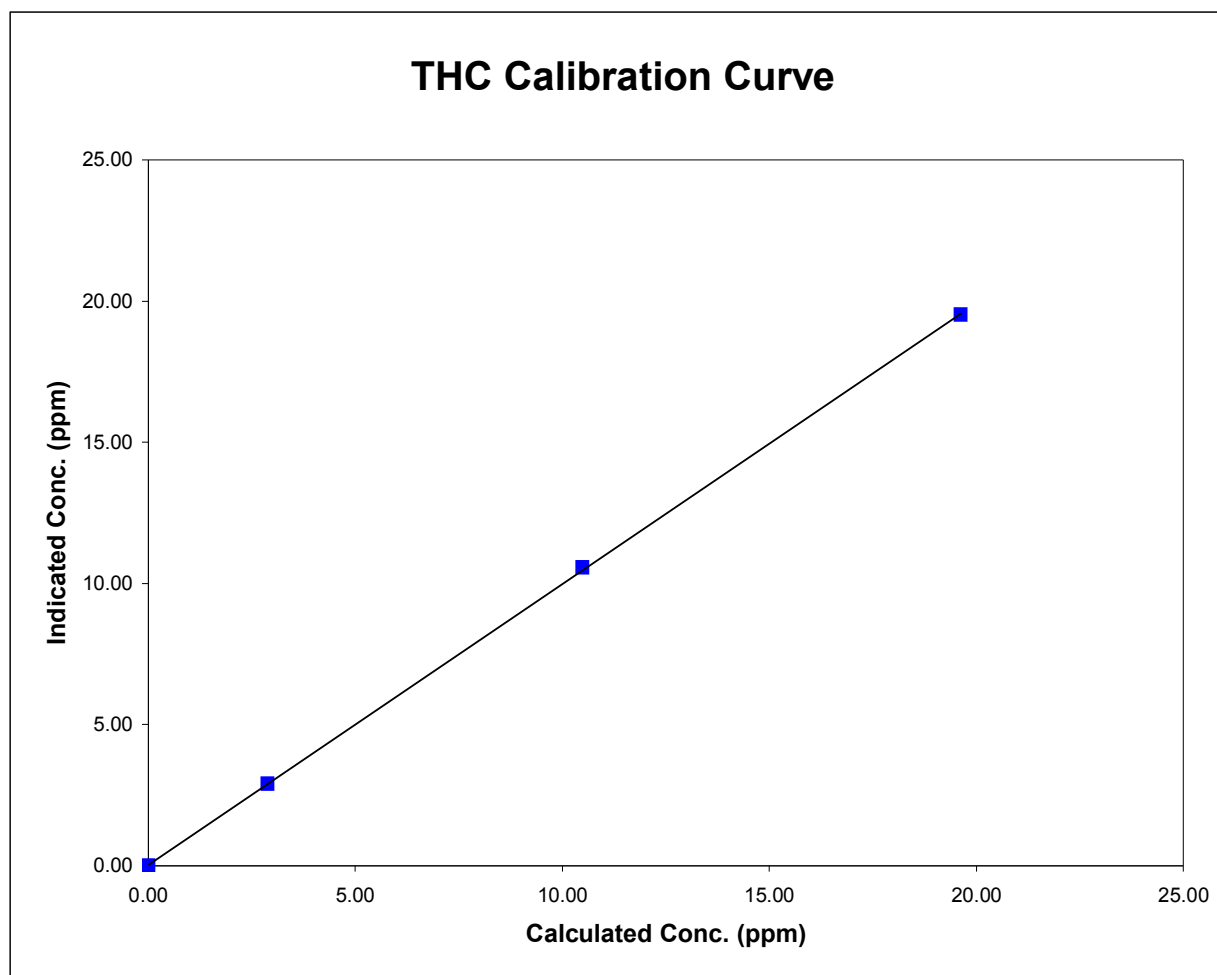


Station Information

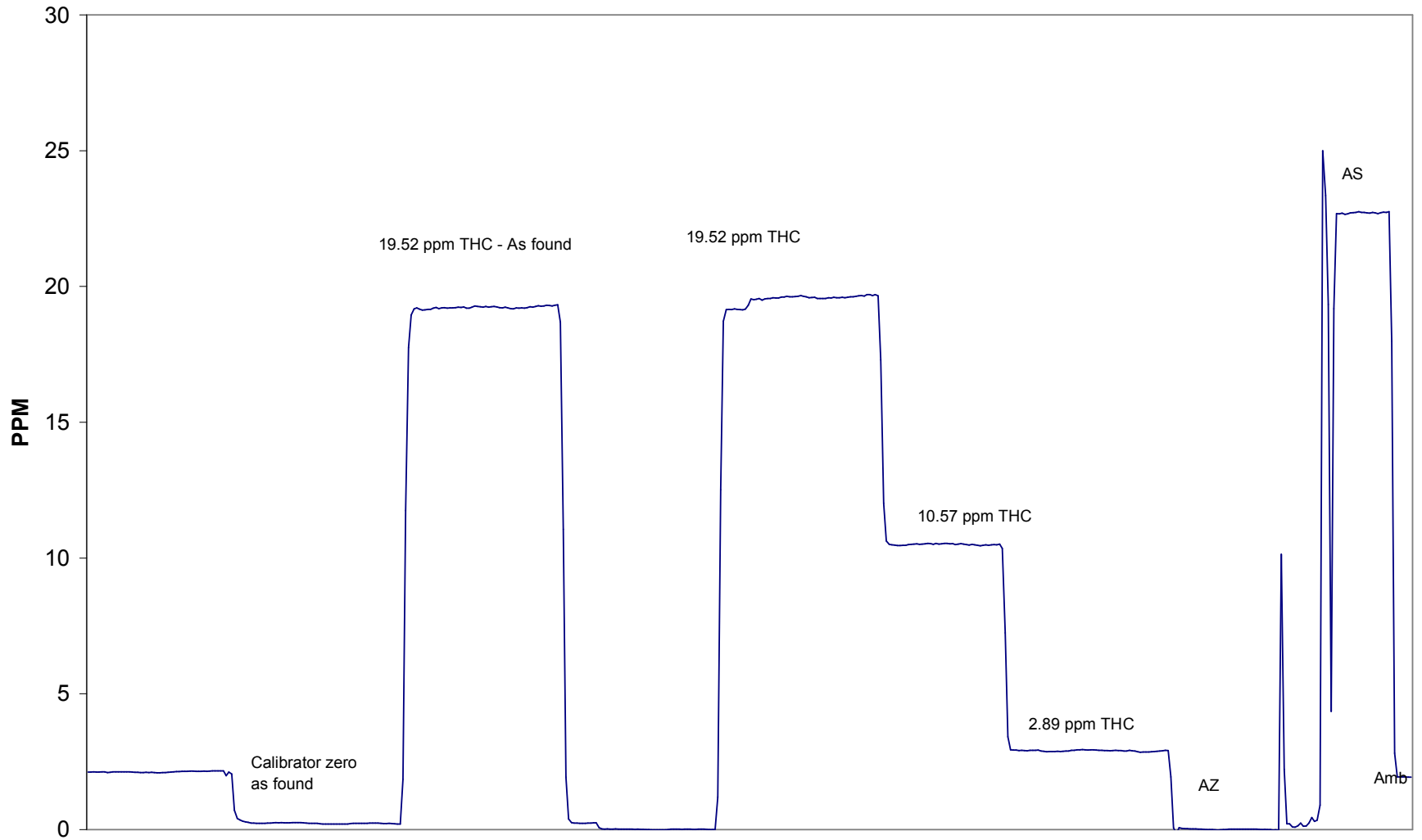
Calibration Date	January 23, 2006	Previous Calibration	December 5, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:26	End Time (MST)	14:17
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.013	N/A		
19.516	19.623	0.9945	Correlation Coefficient	0.999949
10.565	10.496	1.0066		
2.891	2.885	1.0021	Slope	0.995720
			Intercept	0.024122



THC Calibration



January 23, 2006

Calibration Report

Parameter TRS
 Air Monitoring Network PASZA



Station Information

Calibration Date	January 31, 2006	Previous Calibration	December 2, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:45	End Time (MST)	14:10
Barometric Pressure	27.4 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	181 ng/min	Perm-tube Expiry Date	12/10/2005
Correction factor	0.931743	Perm-tube Cert #	04-19367
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.008683	Calculated slope	0.996244
Calculated intercept	-0.074584	Calculated intercept	-0.081381
Analyzer make	TEI Model 43C	Analyzer serial #	3199000000491

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	21	ppb	21.2	ppb
coefficient	1.249		1.205	
Lamp Voltage	890	volts	889	volts
Chamber Temp	44.7	Deg C	44.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	627.5	mm Hg	618.9	mm Hg
Sample Flow	701	ccm	703	ccm
Lamp Intesity	39,500	mv	39,400	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	2049.8	0.0	0.4	N/A
2200	2049.8	63.5	64.0	0.9925
5000	4658.7	27.9	27.9	1.0020
8975	8362.4	15.6	15.5	1.0050
zero	2003.2	0.0	1.0	As Found Zero
2150	2003.2	65.0	65.4	As Found Span
Average Correction Factor				0.9998

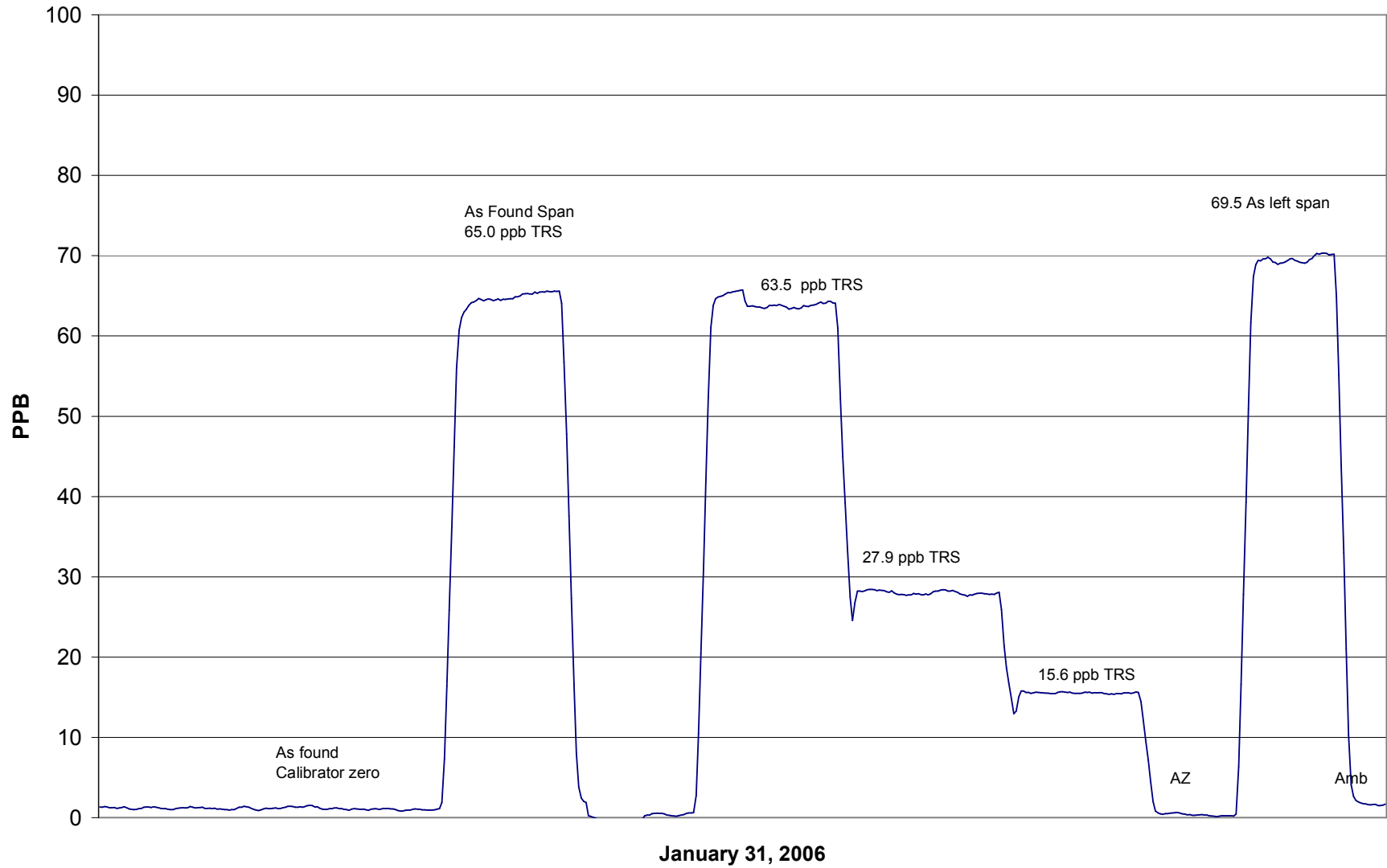
Calculated value of As Found Response: 64.81 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	0.6	ppm	0.2	ppm
Auto span	69.2	ppm	69.5	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

TRS Calibration



Calibration Report

Parameter PM2.5

Air Monitoring Network

PASZA

Station Information

Calibration Date	January 31, 2006	Previous Calibration	December 29, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:52	End Time (MST)	14:15
Barometric Pressure	0.916 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.920	SLPM	2.990	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	78	%	16	%
Ko Factor	12122		12122	
Temperature	-13.3	Deg C	-6.9	Deg C
Pressure	0.916	ATM	0.918	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.01
zero flow - auxiliary	0.0	0.00		-0.06
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	50
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	50
Temperature	measured	-13.4	+/- 1.0 Deg C	-13.3
Pressure	measured	0.916	+/- 1.5% Δ ATM	0.916
Total Flow	16.67 SLPM	17.4/16.2		
Main Flow	13.67 SLPM	14.98/13.82	+/- 1.0 SLPM	13.67
Auxiliary Flow	3.0 SLPM	3.28/2.96	+/- 0.2 SLPM	2.990
Leak Check - main	0.0	0.00	<0.15 SLPM	0.01
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: New filterAdjusted flows via software.Calibration Performed By: Dawn Ewan

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

Calibration Date	January 24, 2006	Previous Calibration	December 21, 2005
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:10	End Time (MST)	18:13
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.936502	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	0.986683	Calculated slope	0.988432
Calculated intercept	-3.590456	Calculated intercept	-7.171342
Analyzer make	API 100	Analyzer serial #	32

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	490	ccm	473	ccm
UV Lamp Voltage	3290	mv	3290	mv
Lamp Ratio	94	%	93	%
Rx Cell Temp	50	Deg C	50	Deg C
PMT Temp	10	Deg C	10	Deg C
IZS Temp	40	Deg C	40	Deg C
Slope	9.24		8.83	
Intercept	201		228.4	

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	2027.5	0.0	-1.2	N/A
2165	2027.5	394.8	402.0	0.9820
5075	4752.7	168.4	183.4	0.9181
9110	8531.5	93.8	109.5	0.8571
zero	2425.5		-1.5	As Found Zero
2590	2425.5	330.0	317.3	As Found Span
Average Correction Factor				0.9191

Calculated value of As Found Response: 310.975 ppm Percent Change of As Found: 5.8%

	before calibration		after calibration	
Auto zero	-2.3	ppm	-9.7	ppm
Auto span	231.0	ppm	249.2	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

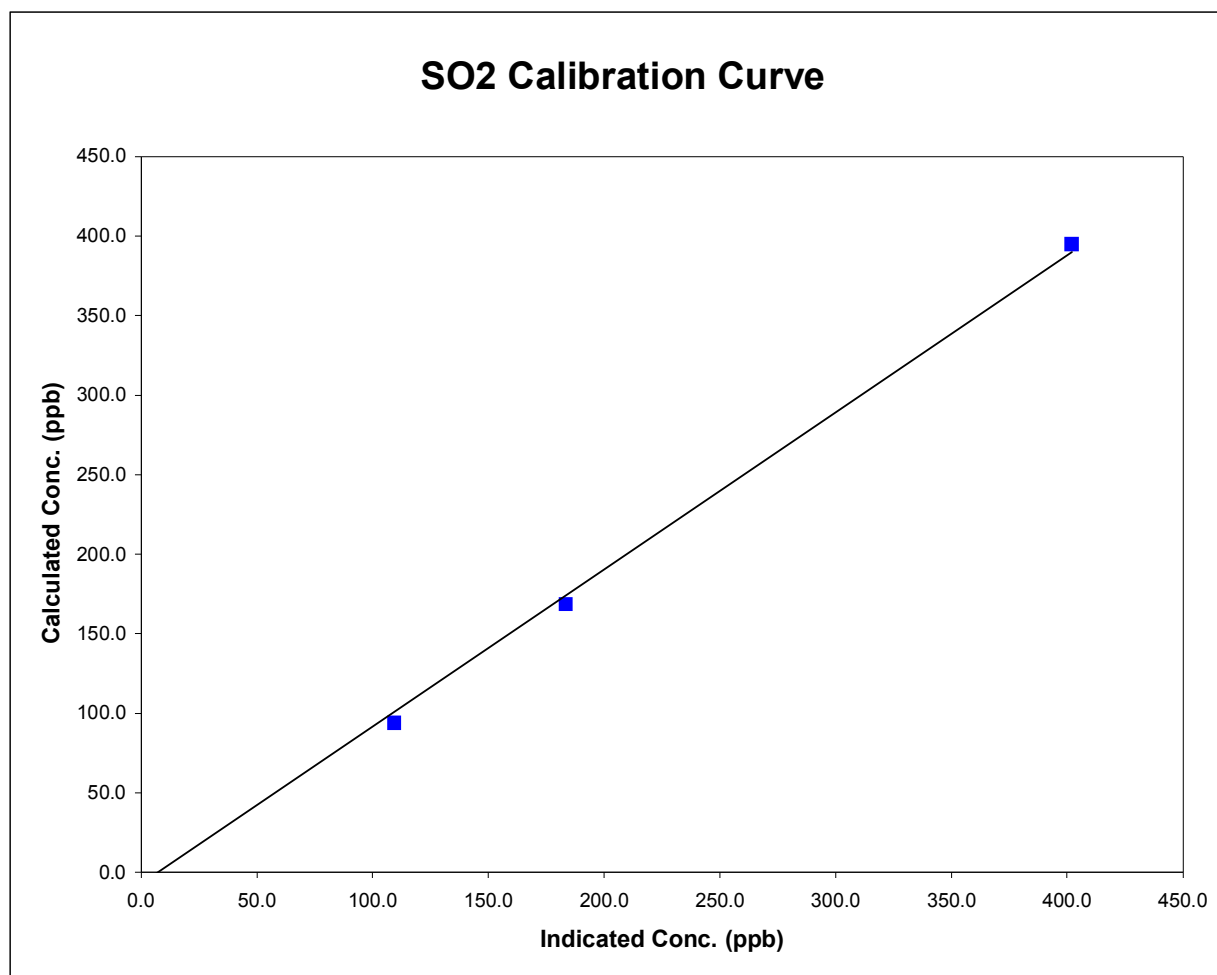


Station Information

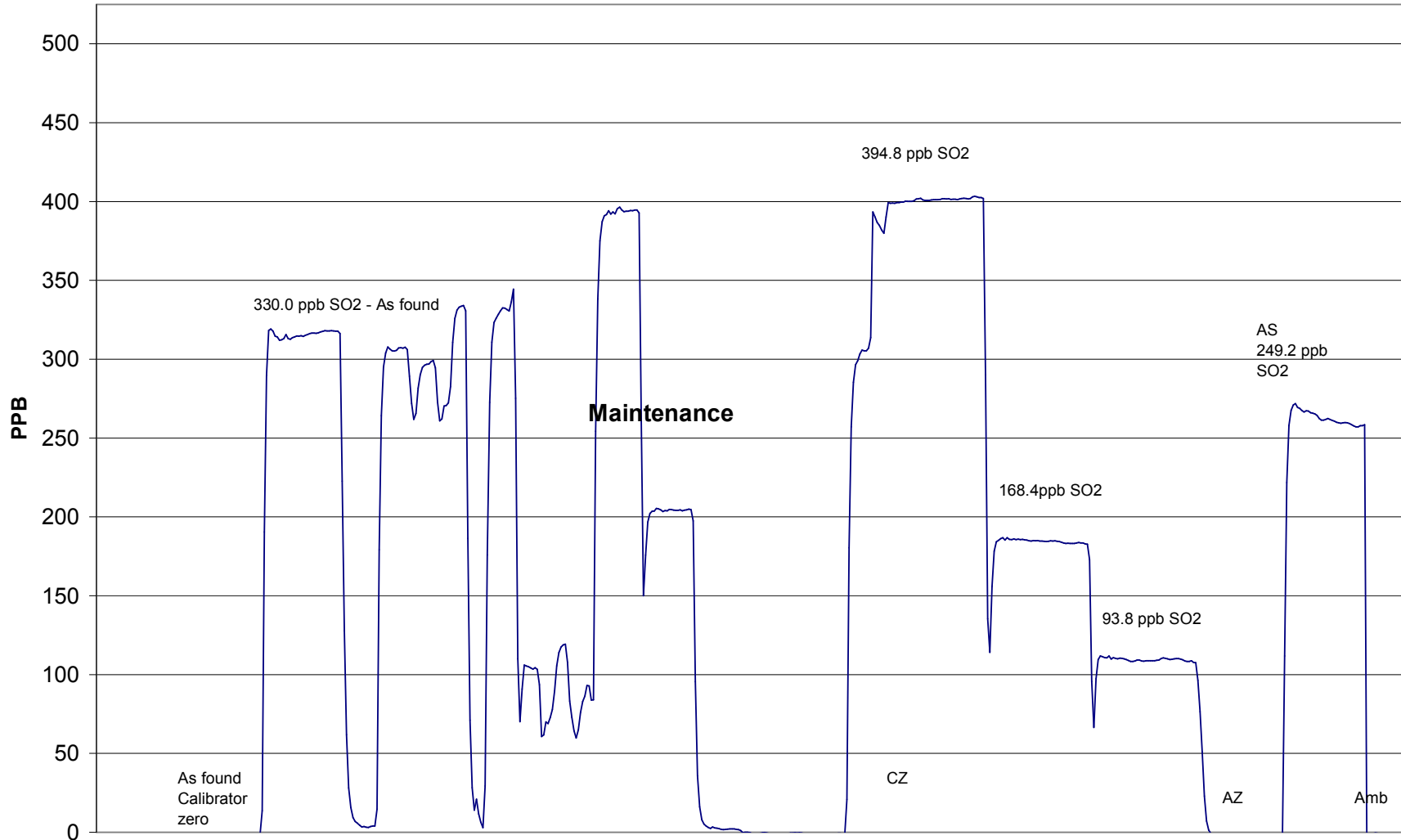
Calibration Date	January 24, 2006	Previous Calibration	December 21, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:10	End Time (MST)	18:13
Analyzer make/model	API 100	Analyzer serial #	32

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.2	N/A		
394.8	402.0	0.9820	Correlation Coefficient	0.997937
168.4	183.4	0.9181		
93.8	109.5	0.8571	Slope	0.988432
			Intercept	-7.171342



SO2 Calibration



January 24, 2006

Calibration Report



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

Station Information

Calibration Date	January 24, 2006	Previous Calibration	December 12, 2005	
Station Number	2	Station Location	Evergreen Park	
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal	<input type="checkbox"/> Other:
Start Time (MST)	11:10	End Time (MST)	15:25	
Barometric Pressure	27.55 inches Hg	Station Temperature	20.0 Deg C	
Calibrator	VICI Metronics	Serial Number	111-1695	
Perm-tube Conc	181 ng/min	Perm-tube Expiry Date	June 30/05	
Correction factor	0.936502	Perm-tube Cert #	04-19367	
DACS make	Focus AP1000	DACS serial No.	1	
DACS voltage range	0 - 10 volt	DACS channel #	9	
Calculated slope	0.987654	Calculated slope	0.993179	
Calculated intercept	0.422393	Calculated intercept	0.155801	
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005	

	before		after	
Concentration range	100	ppb	100	ppb
Background	14.2	ppb	14.2	ppb
coefficient	1.241		1.26	
Lamp Voltage	759	volts	760	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	634.9	mm Hg	637.5	mm Hg
Sample Flow	469	ccm	470	ccm
Lamp Intesity	32,400	mv	32,300	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	2027.5	0.0	-0.2	N/A
2165	2027.5	64.2	64.5	0.9951
5075	4752.7	27.4	27.3	1.0043
9350	8756.3	14.9	14.9	0.9957
zero	2425.5	0.0	0.5	As Found Zero
2590	2425.5	53.7	48.5	As Found Span
Average Correction Factor				0.9984

Calculated value of As Found Response: 47.85 ppm Percent Change of As Found: 10.8%

	before calibration		after calibration	
Auto zero	0.0	ppm	-0.2	ppm
Auto span	62.2	ppm	63.5	ppm

Notes: _____

Calibration Performed By: **Dawn Ewan**

Calibration Summary

Parameter
 Air Monitoring Network

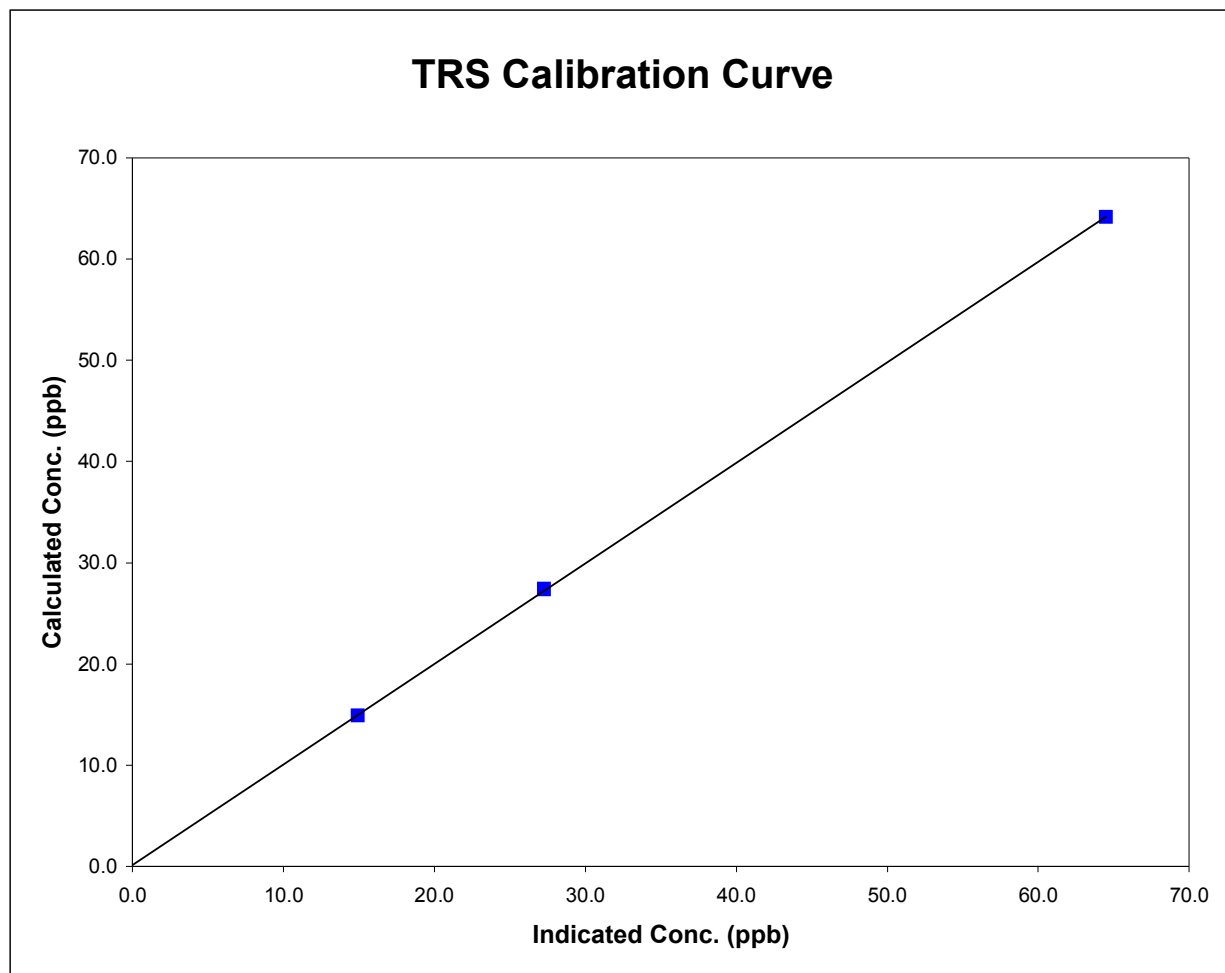


Station Information

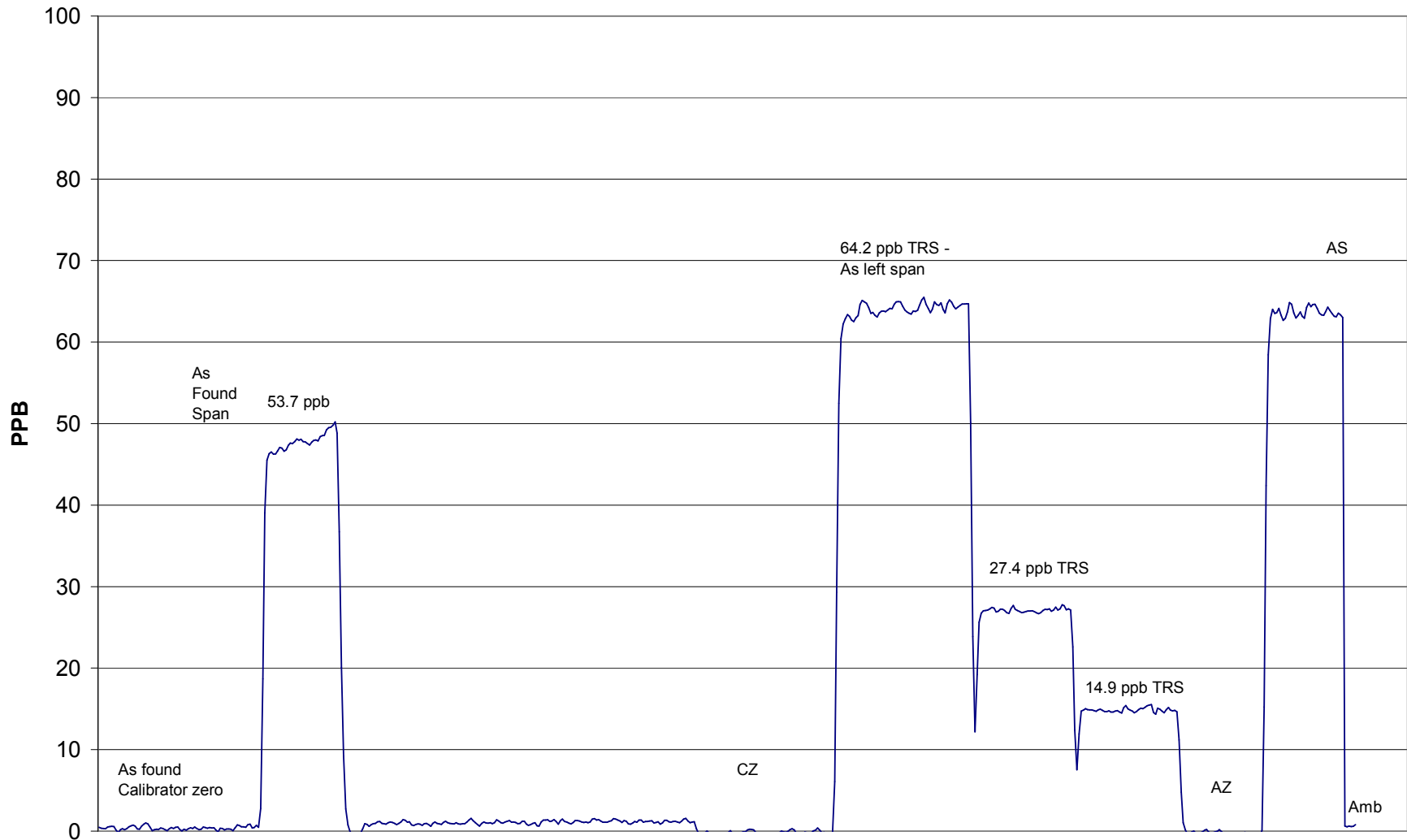
Calibration Date	January 24, 2006	Previous Calibration	December 12, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:10	End Time (MST)	15:25
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
64.2	64.5	0.9951	Correlation Coefficient	0.999984
27.4	27.3	1.0043		
14.9	14.9	0.9957		
			Slope	0.993179
			Intercept	0.155801



TRS Calibration



January 24, 2006

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

Calibration Date	January 24, 2006	Previous Calibration	December 12, 2005
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:45	End Time (MST)	15:18
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
	<u>Before</u>		<u>After</u>
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

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

	before		after	
Main Flow Set Point	2.910	SLPM	2.990	SLPM
Aux Flow Set Point	13.66	SLPM	13.67	SLPM
Filter Load	61	%	16	%
Ko Factor	12122		12122	
Temperature	10.5	Deg C	10.5	Deg C
Pressure	0.925	ATM	0.925	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	0.00		-0.01
flow recovery - main	45 - 60 Seconds		45 - 60 Seconds	55
flow recovery - aux	46 - 60 Seconds		46 - 60 Seconds	55
Temperature	measured	10.7	+/- 1.0 Deg C	10.5
Pressure	measured	0.921	+/- 1.5% ΔATM	0.925
Total Flow	16.67 SLPM	16.53		
Main Flow	13.67 SLPM	14.08	+/- 1.0 SLPM	13.66
Auxillary Flow	3.0 SLPM	3.060	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	0.00	<0.15 SLPM	-0.04
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Installed new filter.
Cleaned head.

Calibration Performed By: Dawn Ewan

Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	January 27, 2006	Previous Calibration	December 13, 2005
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:03	End Time (MST)	13:55
Barometric Pressure	27.49 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.934462	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	1.000020	Calculated slope	0.997403
Calculated intercept	-1.081698	Calculated intercept	0.380663
Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	556	ccm	556	ccm
UV Lamp Voltage	2900	mv	2900	mv
Lamp Ratio	79.6	%	69	%
Rx Cell Temp	51.3	Deg C	49.6	Deg C
PMT Temp	7	Deg C	7	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	0.857		0.969	
Intercept	21.9		21.3	

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	2046.5	0.0	0.2	N/A
2190	2046.5	391.1	391.5	0.9990
5000	4672.3	171.3	173.0	0.9902
9050	8456.9	94.6	92.5	1.0231
zero	2009.1	0.0	-1.3	As Found Zero
2150	2009.1	398.4	316.1	As Found Span
Average Correction Factor				1.0041

Calculated value of As Found Response: 316.375 ppm Percent Change of As Found: 20.6%

	before calibration		after calibration	
Auto zero	-1.0	ppm	0.4	ppm
Auto span	243.7	ppm	251.7	ppm

Notes: UV lamp ratio dropped to 50%. Repeaked lamp.

Calibration Performed By: Dawn Ewan

Calibration Summary



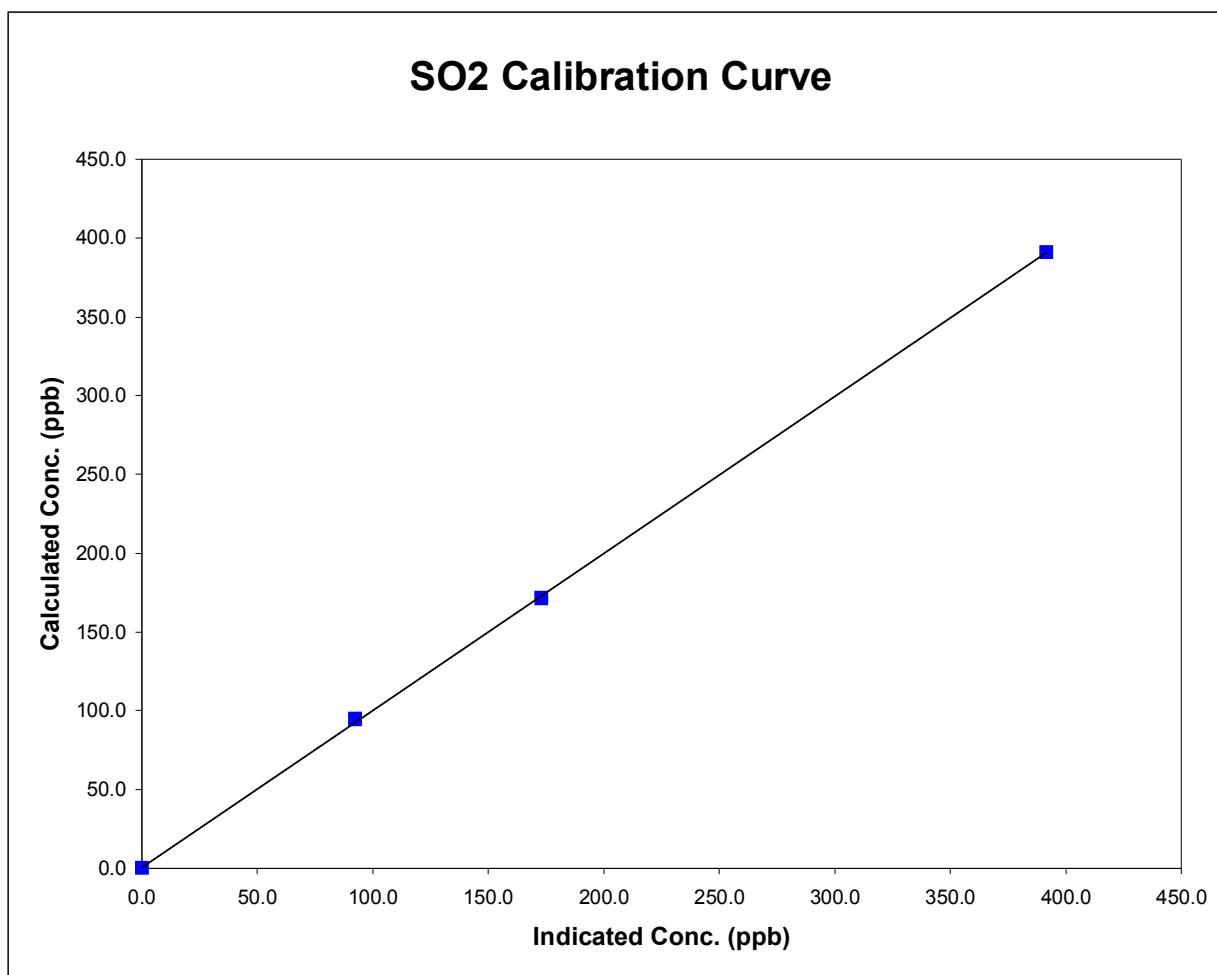
Parameter SO2
 Air Monitoring Network PASZA

Station Information

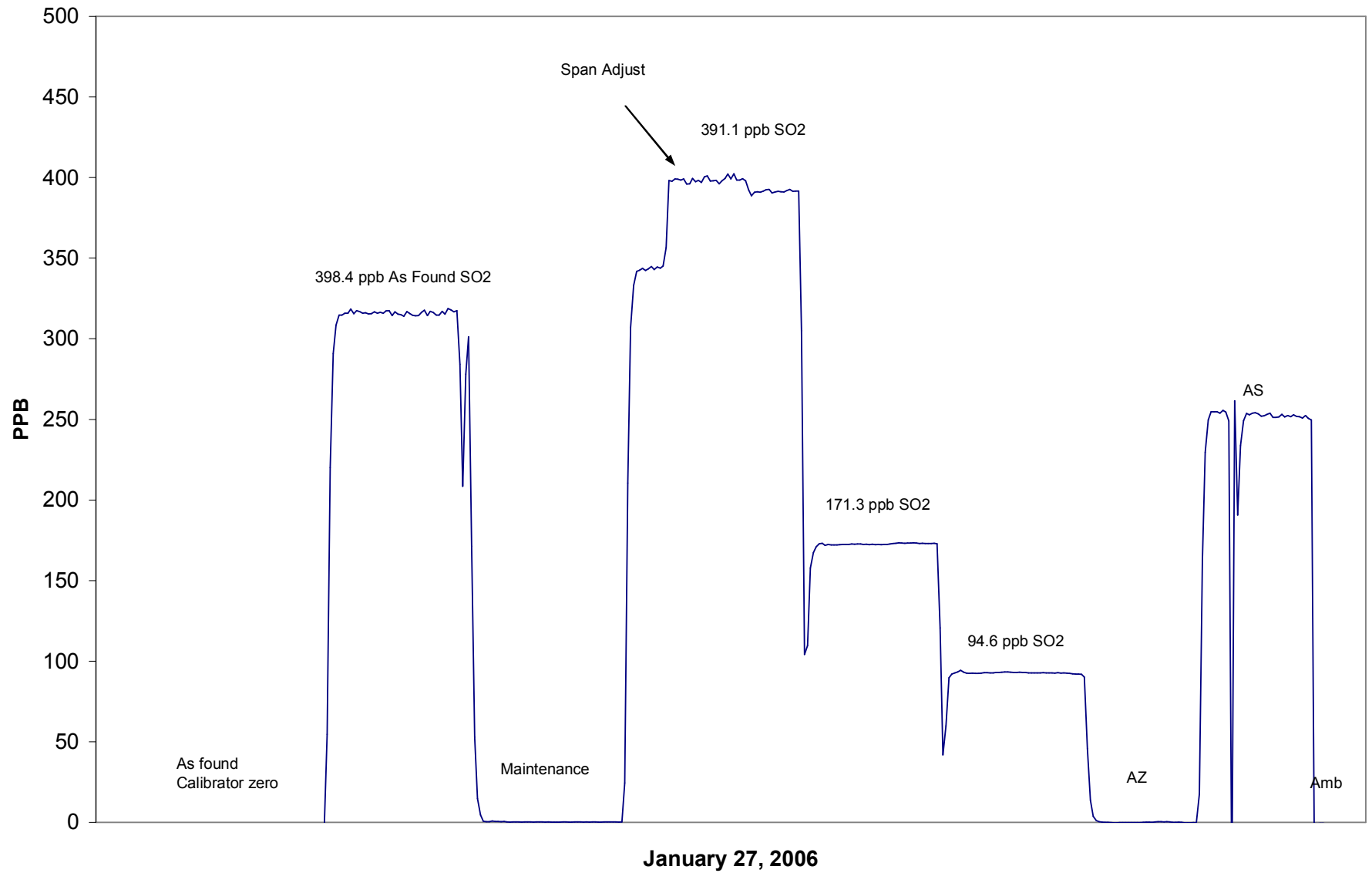
Calibration Date	January 27, 2006	Previous Calibration	December 13, 2005
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:03	End Time (MST)	13:55
Analyzer make/model	API 102A	Analyzer serial #	212

Calibration Data

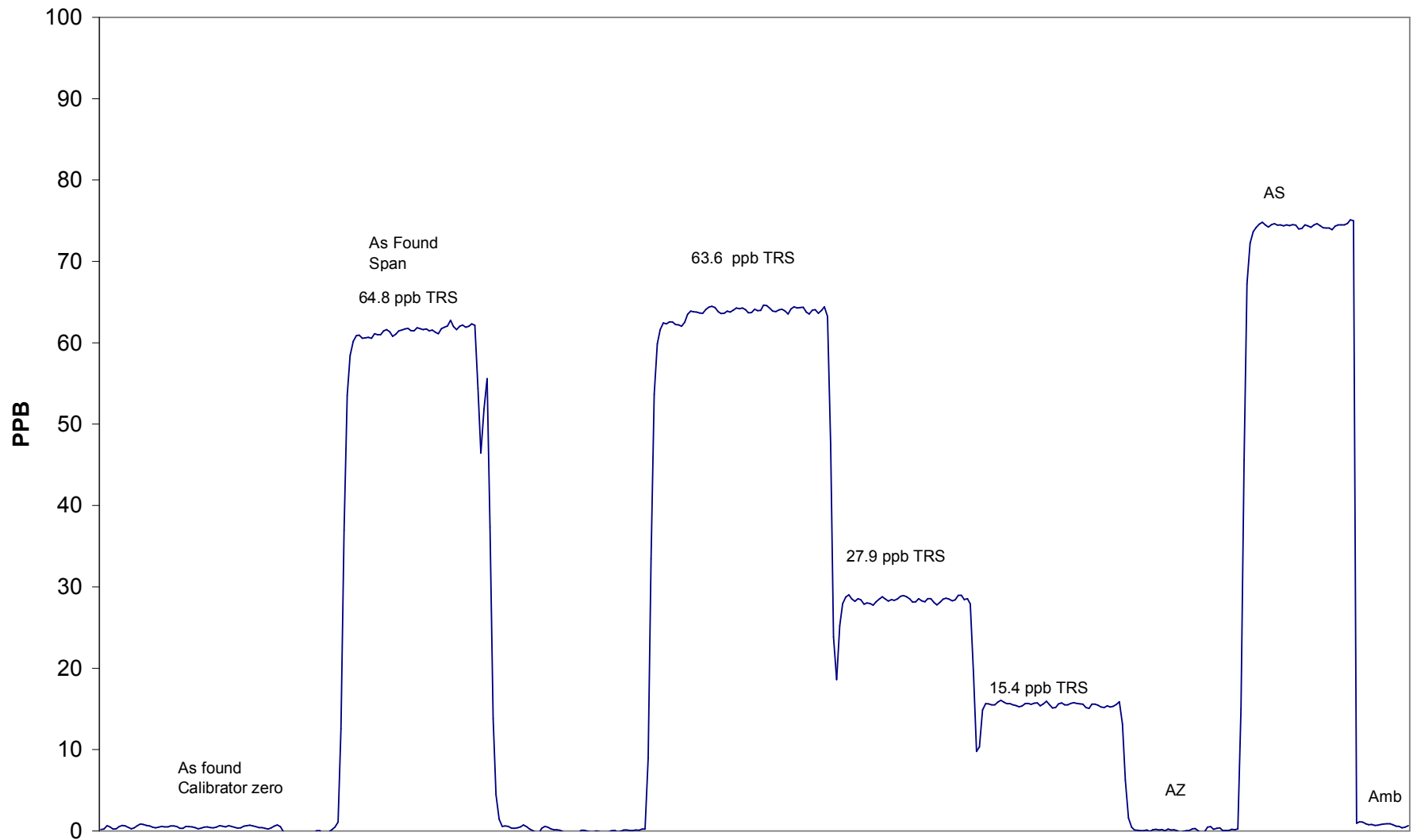
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
391.1	391.5	0.9990	Correlation Coefficient	0.999915
171.3	173.0	0.9902		
94.6	92.5	1.0231		
			Slope	0.997403
			Intercept	0.380663



SO2 Calibration



TRS Calibration



January 27, 2006

Calibration Report



Parameter PM2.5
Air Monitoring Network PASZA

Station Information

Calibration Date	January 27, 2006	Previous Calibration	December 13, 2005
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	13:28	End Time (MST)	15:00
Barometric Pressure	0.919 inches Hg	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.66	SLPM	13.65	SLPM
Filter Load	68	%	16	%
Ko Factor	10997		10997	
Temperature	-14.9	Deg C	-14.9	Deg C
Pressure	0.922	ATM	0.922	ATM
Main Fadj			0.948	
Aux Fadj			0.880	

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	New Reading
zero flow - main	0.0	0.00		0.02
zero flow - auxillary	0.0	0.00		0.03
flow recovery - main	45 - 60 Seconds		45 - 60 Seconds	25
flow recovery - aux	46 - 60 Seconds		46 - 60 Seconds	45
Temperature	measured	-14.8	+/- 1.0 Deg C	-14.9
Pressure	measured	0.919	+/- 1.5% ΔATM	0.922
Total Flow	16.67 SLPM	18.0516.05		
Main Flow	13.67 SLPM	15.41/13.57	+/- 1.0 SLPM	13.65
Auxillary Flow	3.0 SLPM	3.347/2.94	+/- 0.2 SLPM	2.990
Leak Check - main	0.0	0.00	<0.15 SLPM	0.13
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.20
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Adjusted flows.
New filter

Calibration Performed By: Dawn Ewan

Calibration Report



Parameter SO₂
 Air Monitoring Network PASZA

Station Information

Calibration Date	January 6, 2006	Previous Calibration	December 7, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:00	End Time (MST)	14:50
Barometric Pressure	0.908 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
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.	45271
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.004534	Calculated slope	1.028417
Calculated intercept	-0.371514	Calculated intercept	0.060926
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.29	ppb	2.29	ppb
Coefficient	0.815		0.815	
Lamp Voltage	905.0	Volts	905.0	Volts
Chamber Temp	43.2	Deg C	43.2	Deg C
Sample Flow	613	ccm	613	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)
5085	0.00	0.00	0.04	N/A
5085	41.05	82.48	80.10	1.0298
5085	20.14	40.63	39.68	1.0240
5085	9.90	20.02	19.12	1.0471
5085	0.00	0.00	0.04	As Found Zero
5085	41.05	82.48	80.10	As Found Span
Average Correction Factor				1.0336

Calculated value of As Found Response: 80.047 ppm Percent Change of As Found: 3.0%

	before calibration		after calibration	
Auto zero	-0.31	ppm	0.01	ppm
Auto span	27.27	ppm	28.43	ppm

Notes: No Adjustments Made.

Calibration Performed By: Dawn Ewan

Calibration Summary



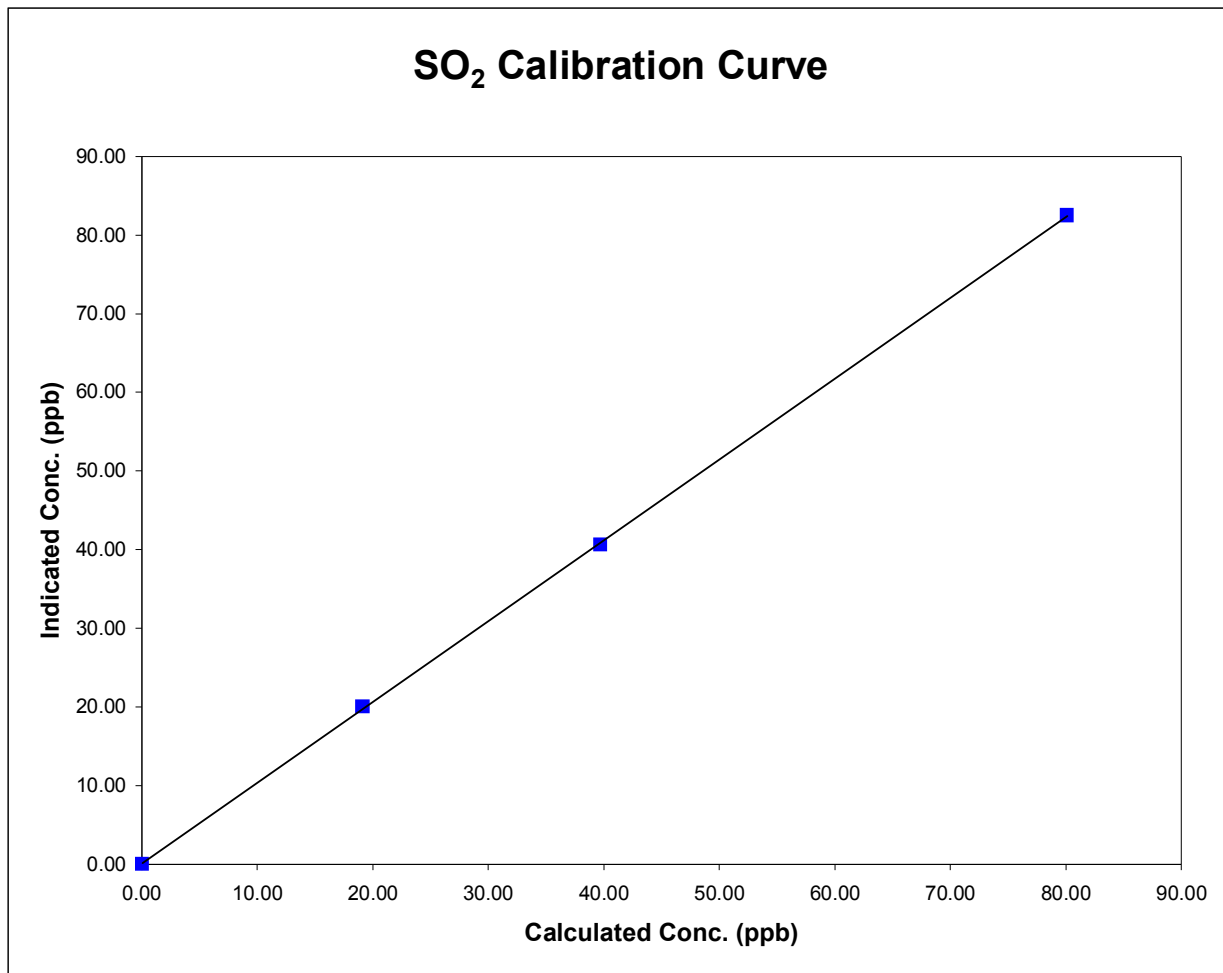
Parameter SO2
 Air Monitoring Network PASZA

Station Information

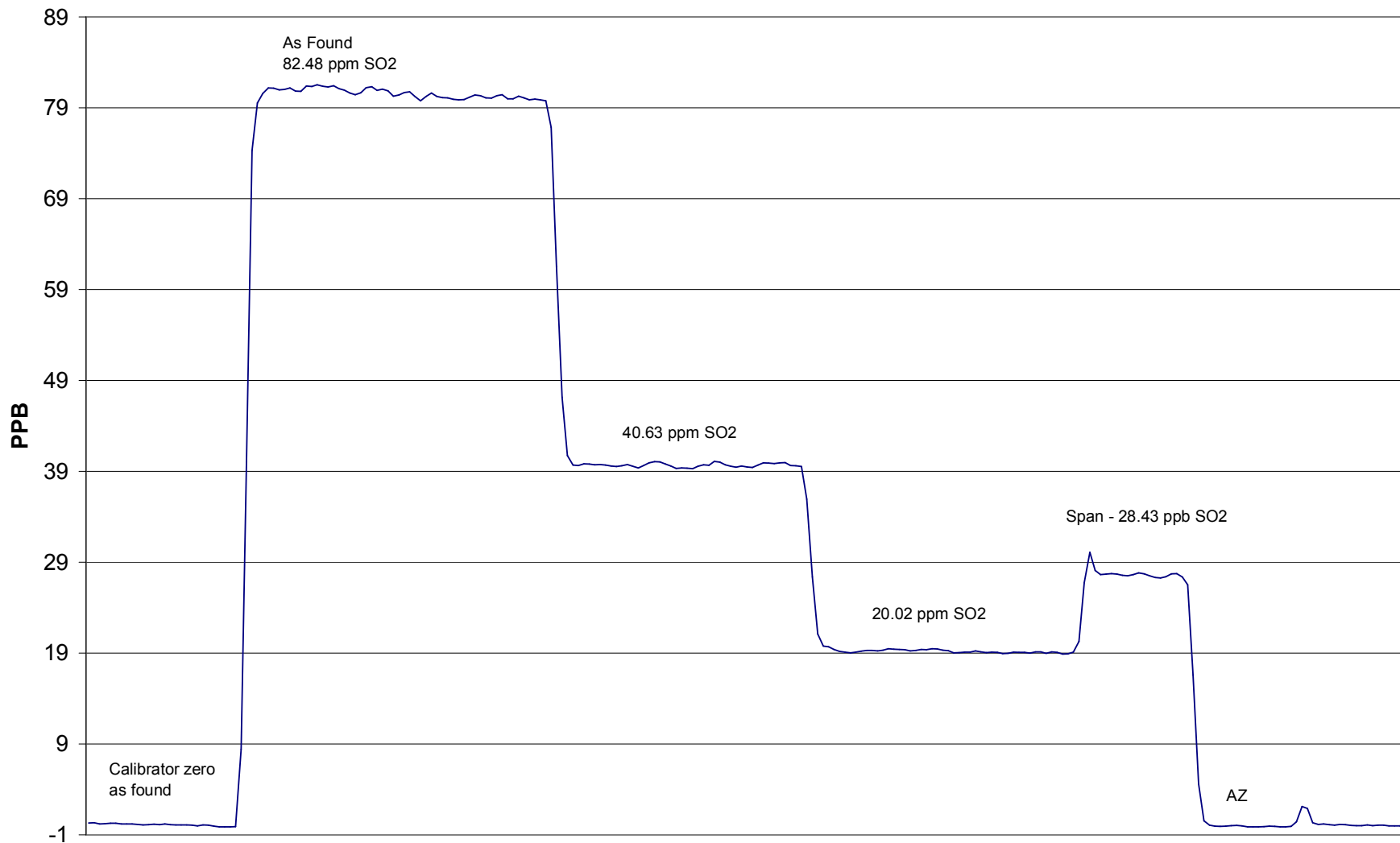
Calibration Date	January 6, 2006	Previous Calibration	December 7, 2005
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	13:00	End Time (MST)	14:50
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.044	N/A		
82.484	80.100	1.0298	Correlation Coefficient	0.999958
40.634	39.682	1.0240		
20.022	19.121	1.0471	Slope	1.028417
			Intercept	0.060926



SO₂ Calibration



January 6, 2006

Calibration Report

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

**Station Information**

Calibration Date	<u>January 10, 2006</u>	Previous Calibration	<u>December 6, 2006</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:50</u>	End Time (MST)	<u>14:30</u>
Barometric Pressure	<u>0.897</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>Nov 22/06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.990206	0.996475	0.989514
	Data Offset	0.497002	-0.724276	4.837470
After	Data Slope	0.990206	0.995566	0.999416
	Data Offset	0.497002	2.400235	1.625353
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.3	ppb	1.2	mV
NOx background	1.3	ppb	1.4	mV
NO coefficient	0.983		0.936	
NOx coefficient	0.931		1.009	
Chamber Temp	49.2	Deg C	49.1	Deg C
Cooler Temp	-2.0	Deg C	-2.2	Deg C
Converter Temp	323.0	Deg C	323.0	Deg C
Sample Flow	808.0	LPM	818.0	LPM
Pressure	158.3	inches HG	157.9	inches HG
Box Temp	30.8	ccm	31.1	ccm

Notes: No zero adjustment.
Span adjustment made.

Calibration Report

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



Station Information

Calibration Date: January 10, 2006 Station Location: AG Canada Research Station

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	-0.4	0.6	1.6	N/A	N/A
1	4992	79.80	794.6	791.4	3.1	796.6	791.2	4.5	0.9974	1.0002
2	4992	39.88	400.3	398.7	1.6	398.9	396.6	1.6	1.0035	1.0052
3	4992	19.93	200.8	200.0	0.8	197.1	195.9	0.5	1.0189	1.0208
AFZ	4992	0.00	0.0	0.0	0.0	-0.4	-0.4	-0.4	0.0000	0.0000
AFS	4992	79.80	794.6	791.4	3.1	779.1	837.4	-23.5	1.0199	0.9451
Average Correction Factor									1.0066	1.0087

As Found Concentrations: NO_x= 778.7 NO= 842.7 As Found Percent Change NO_x= -2.0% NO= 6.5%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point									N/A	N/A
350										
200										
100										
Average Correction Factor										

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-0.1	-1.6	6.2	ppb	NA	NA	NA	ppb
Auto span	811.7	16.6	796.9	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

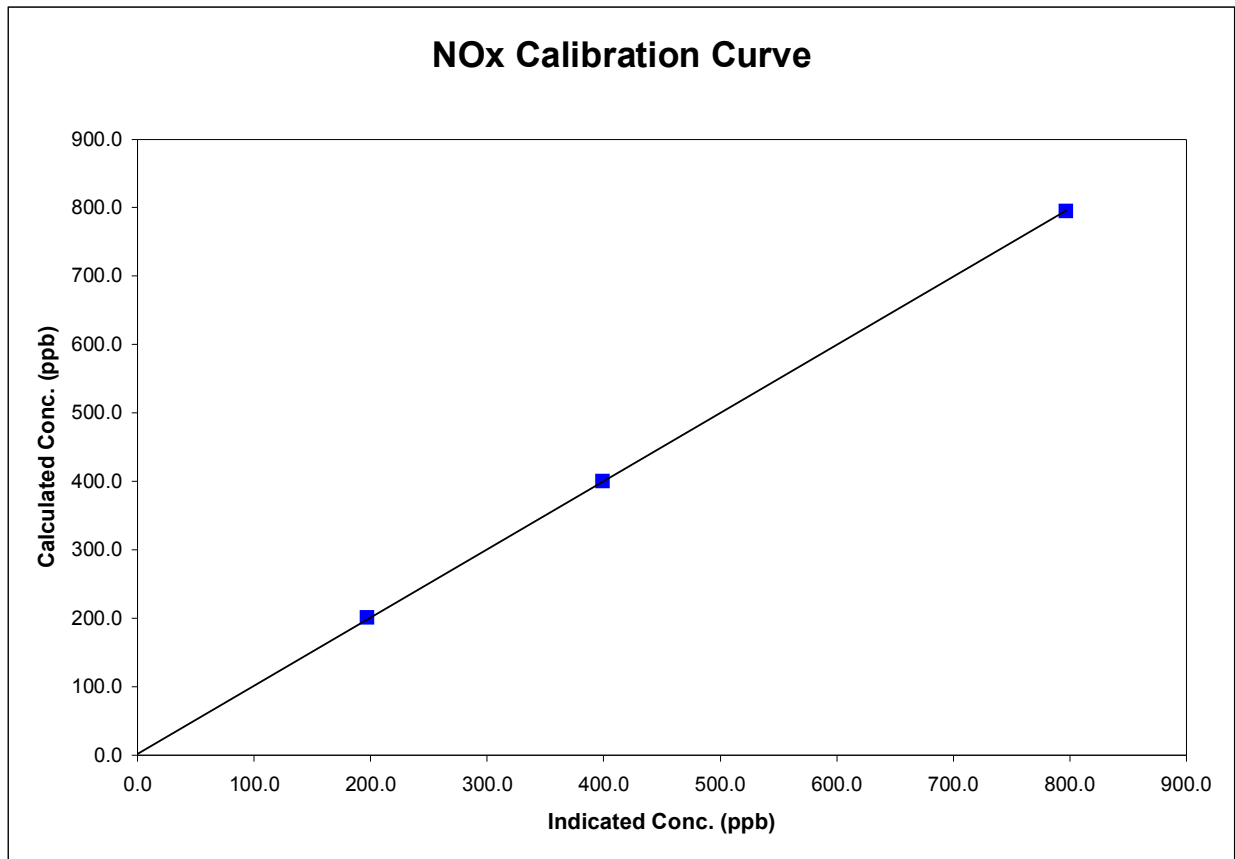


Station Information

Calibration Date	January 10, 2006	Previous Calibration	December 6, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:50	End Time (MST)	14:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000	Correlation Coefficient	0.999970
794.6	796.6	0.9974		
400.3	398.9	1.0035		
200.8	197.1	1.0189		
			Slope	0.995566
			Intercept	2.400235



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

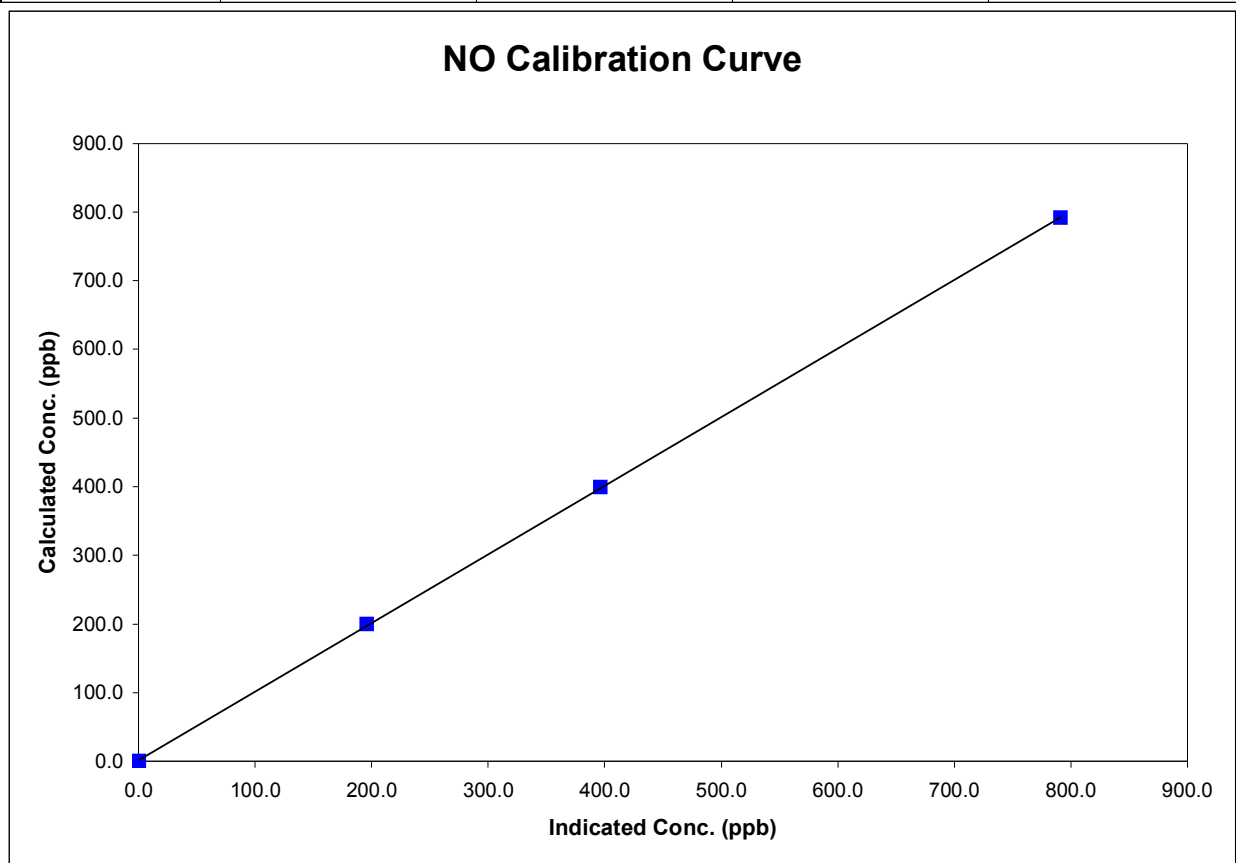


Station Information

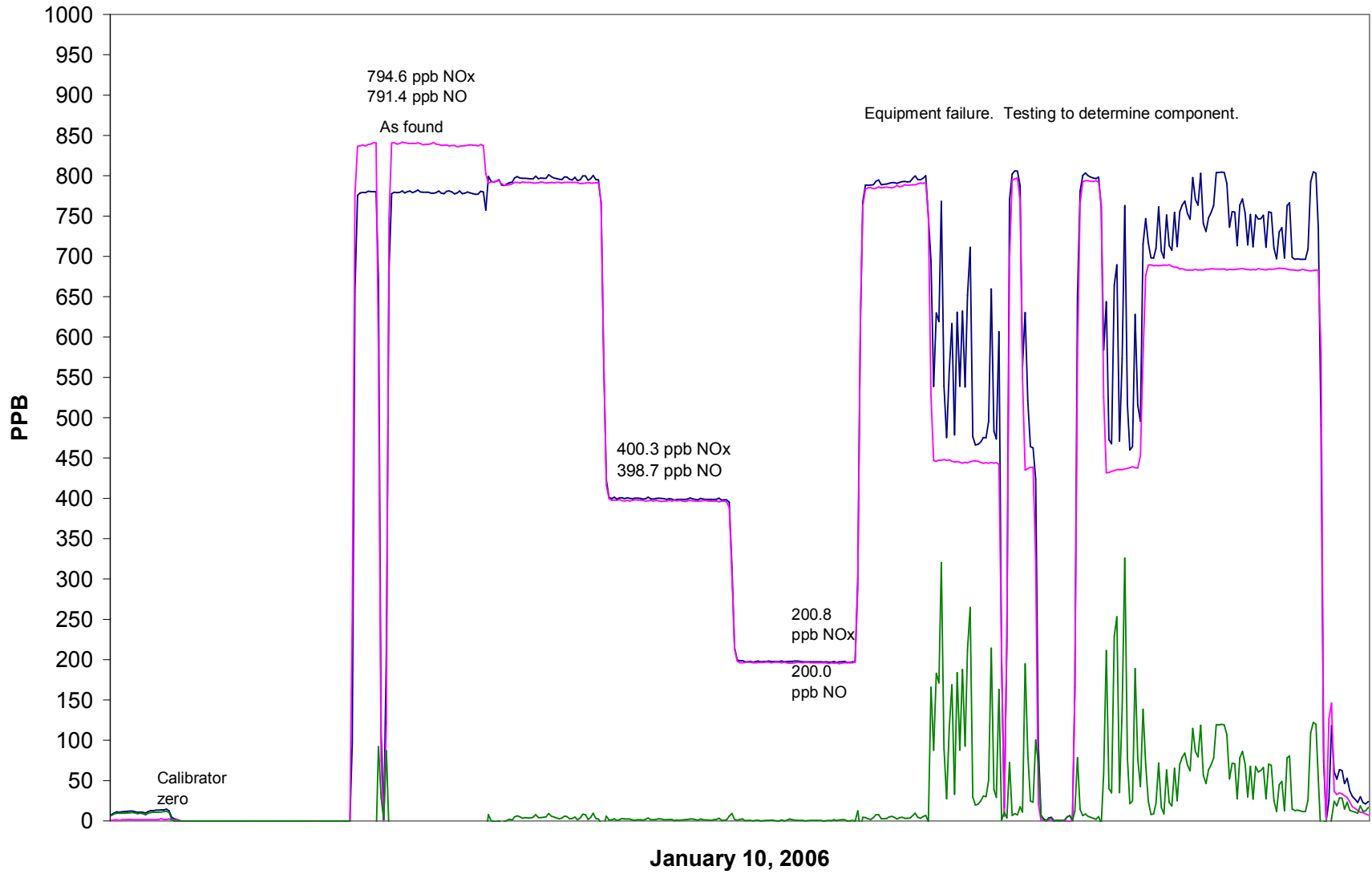
Calibration Date	January 10, 2006	Previous Calibration	December 6, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:50	End Time (MST)	14:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A	Correlation Coefficient	0.999962
791.4	791.2	1.0002		
398.7	396.6	1.0052		
200.0	195.9	1.0208	Slope	0.999416
			Intercept	1.625353



NOx Calibration



Calibration Report

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



Station Information

Calibration Date	<u>January 11, 2006</u>	Previous Calibration	<u>January 10, 2006</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:50</u>	End Time (MST)	<u>16:30</u>
Barometric Pressure	<u>0.898</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>Nov 22/06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	NA	0.995566	0.999416
	Data Offset	NA	2.400235	1.625353
After	Data Slope	0.998557	1.001978	1.004674
	Data Offset	1.413221	1.376929	0.453161
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.3	ppb	1.2	mV
NOx background	1.3	ppb	1.4	mV
NO coefficient	0.983		0.936	
NOx coefficient	0.931		1.009	
Chamber Temp	49.2	Deg C	49.1	Deg C
Cooler Temp	-2.2	Deg C	-2.2	Deg C
Converter Temp	323.0	Deg C	323.0	Deg C
Sample Flow	808.0	LPM	818.0	LPM
Pressure	158.3	inches HG	157.9	inches HG
Box Temp	30.8	ccm	31.1	ccm

Notes: Replaced converter module.
Determined convertor not faulty.
Exchanged zero and mode valves

Calibration Report

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



Station Information

Calibration Date: January 11, 2006 Station Location: AG Canada Research Station

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	-1.4	-0.5	-1.4	N/A	N/A	
1	4992	79.80	794.6	791.4	3.1	791.6	787.3	3.5	1.0037	1.0052	
2											
3											
AFZ	4992	0.00	0.0	0.0	0.0	-1.4	-0.5	-1.4	0.0000	0.0000	
AFS	4992	79.80	794.6	791.4	3.1	773.5	767.6	4.9	1.0273	1.0311	
									Average Correction Factor	1.0037	1.0052

As Found Concentrations: NO_x= 777.3 NO= 769.6 As Found Percent Change NO_x= -2.2% NO= -2.8%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	833.2	795.9	37.3	829.1	791.7	36.4	1.0049	1.0052	N/A	N/A	
350	833.2	423.1	410.0	830.1	420.7	409.2	1.0036	1.0058	1.0020	99.8%	
200											
100											
							Average Correction Factor	1.0036	1.0058	1.0020	99.8%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-0.1	-1.6	6.2	ppb	NA	NA	NA	ppb
Auto span	811.7	16.6	796.9	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

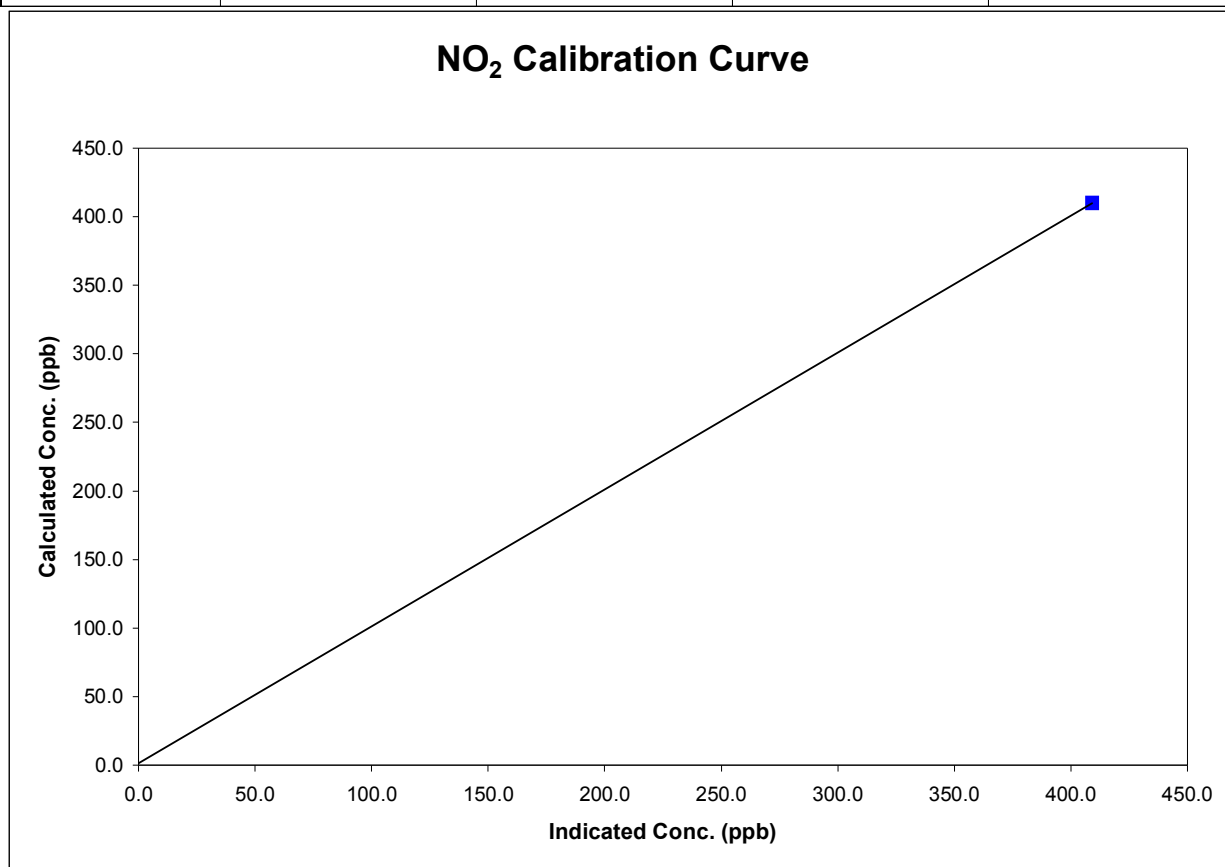


Station Information

Calibration Date	January 11, 2006	Previous Calibration	January 10, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:50	End Time (MST)	16:30
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	-1.4	0.0000		
410.0	409.2	1.0020	Correlation Coefficient	1.000000
			Slope	0.998557
			Intercept	1.413221



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

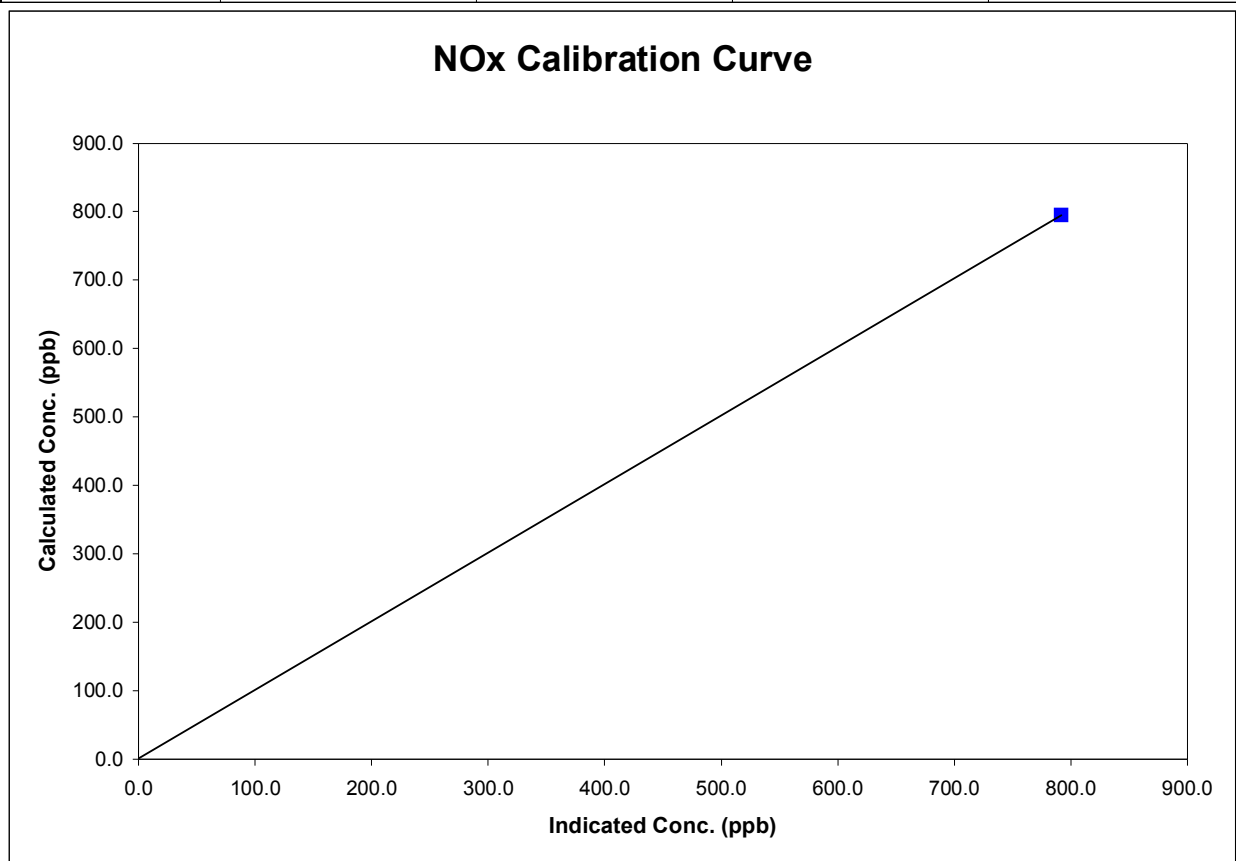


Station Information

Calibration Date	January 11, 2006	Previous Calibration	January 10, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:50	End Time (MST)	16:30
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	-1.4	0.0000		
794.6	791.6	1.0037	Correlation Coefficient	1.000000
			Slope	1.001978
			Intercept	1.376929



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

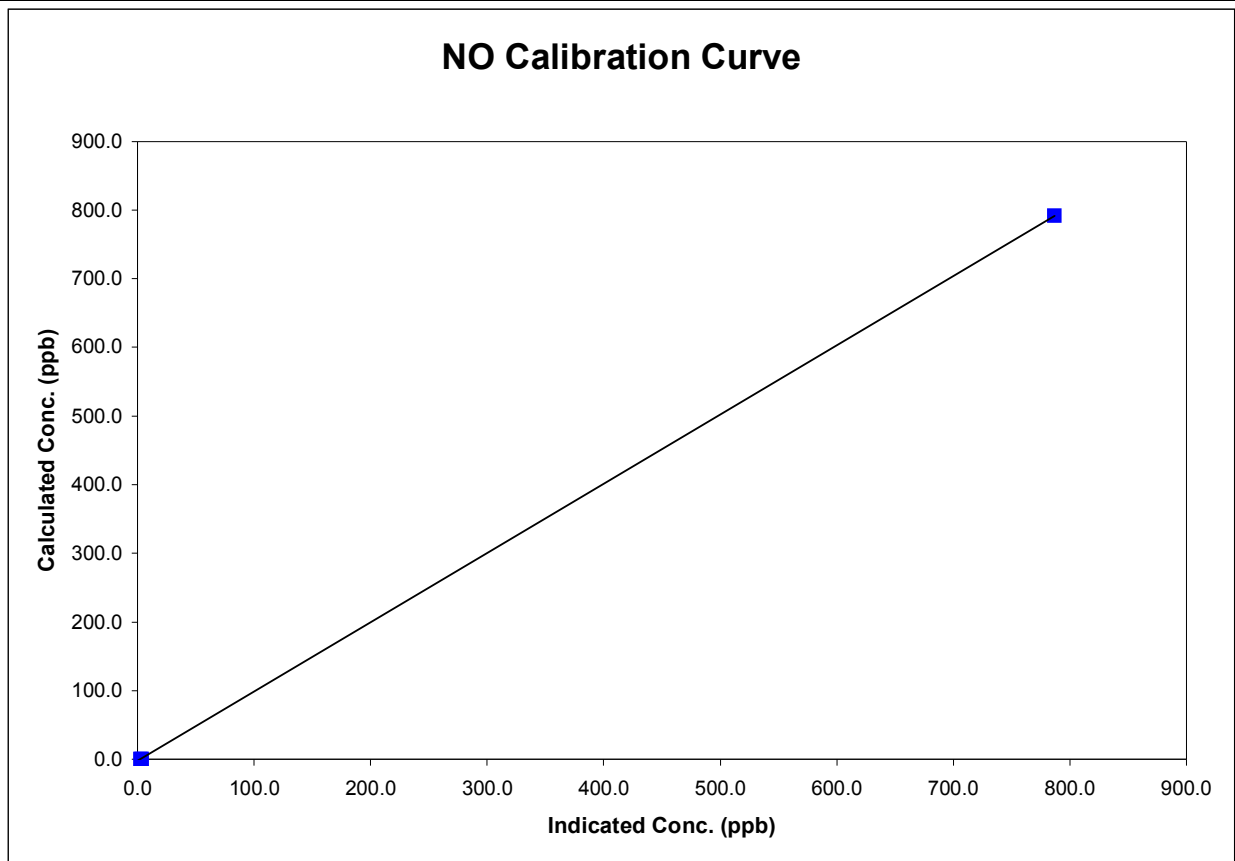


Station Information

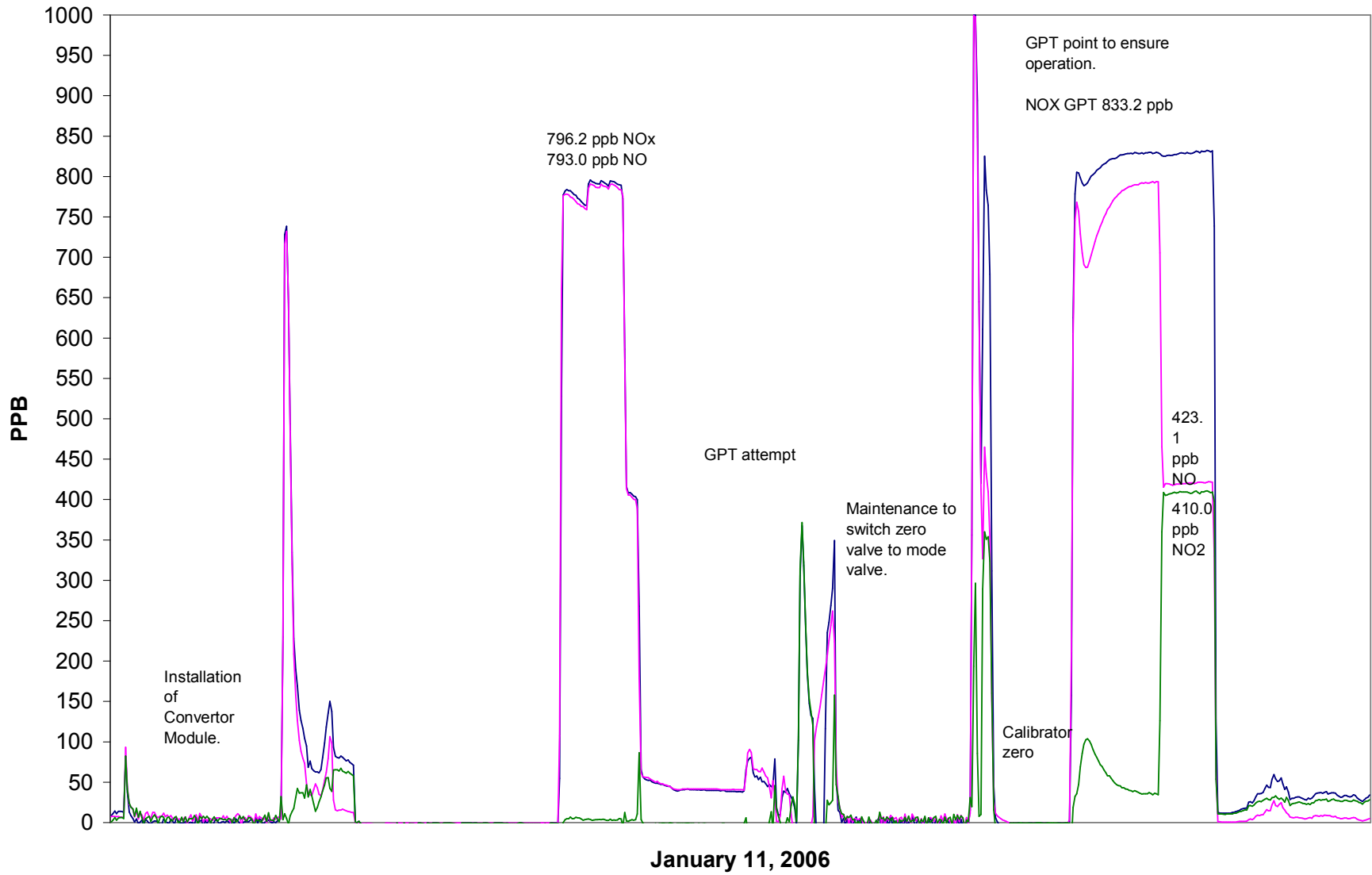
Calibration Date	January 11, 2006	Previous Calibration	January 10, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:50	End Time (MST)	16:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
791.4	787.3	1.0052	Correlation Coefficient	1.000000
			Slope	1.004674
			Intercept	0.453161



NOx Calibration



Calibration Report

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



Station Information

Calibration Date	<u>January 13, 2006</u>	Previous Calibration	<u>January 11, 2006</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:55</u>	End Time (MST)	<u>13:30</u>
Barometric Pressure	<u>0.901</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>Nov 22/06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO ₂	NO _x	NO
Before	Data Slope	0.998557	1.001978	1.004674
	Data Offset	1.413221	1.376929	0.453161
After	Data Slope	0.985294	0.993497	1.000424
	Data Offset	-1.076176	0.314195	0.388305
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.3	ppb	1.4	mV
NO _x background	1.3	ppb	1.6	mV
NO coefficient	0.983		0.997	
NO _x coefficient	0.931		0.973	
Chamber Temp	49.2	Deg C	49.4	Deg C
Cooler Temp	-2.0	Deg C	-2.0	Deg C
Converter Temp	323.0	Deg C	324.0	Deg C
Sample Flow	808.0	LPM	858.0	LPM
Pressure	158.3	inches HG	160.1	inches HG
Box Temp	30.8	ccm	32.2	ccm

Notes: Performed span adjustment. Cal reflects final analyzer repair. Original NO/NO_x multipoint verified Jan 10th.

Calibration Report

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



Station Information

Calibration Date: January 13, 2006 Station Location: AG Canada Research Station

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	-0.3	-0.4	-0.4	N/A	N/A
1	4992	79.80	794.6	791.4	3.1	799.5	790.7	7.9	0.9939	1.0009
2										
3										
AFZ	4992	0.00	0.0	0.0	0.0	-0.3	-0.4	-0.4	0.0000	0.0000
AFS	4992	79.80	794.6	791.4	3.1	829.6	793.8	35.0	0.9578	0.9970
Average Correction Factor									0.9939	1.0009

As Found Concentrations: NO_x= 831.3 NO= 794.7 As Found Percent Change NO_x= 4.6% NO= 0.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point									N/A	N/A
350	798.3	427.6	370.7	803.1	427.1	375.6	0.9940	1.0013	0.9871	101.3%
200	798.3	584.4	213.9	805.2	583.8	221.0	0.9915	1.0011	0.9682	103.3%
100	798.3	685.1	113.2	801.5	684.4	116.5	0.9961	1.0010	0.9717	102.9%
Average Correction Factor							0.9939	1.0011	0.9757	102.5%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-0.1	-1.6	6.2	ppb	NA	NA	NA	ppb
Auto span	811.7	16.6	796.9	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

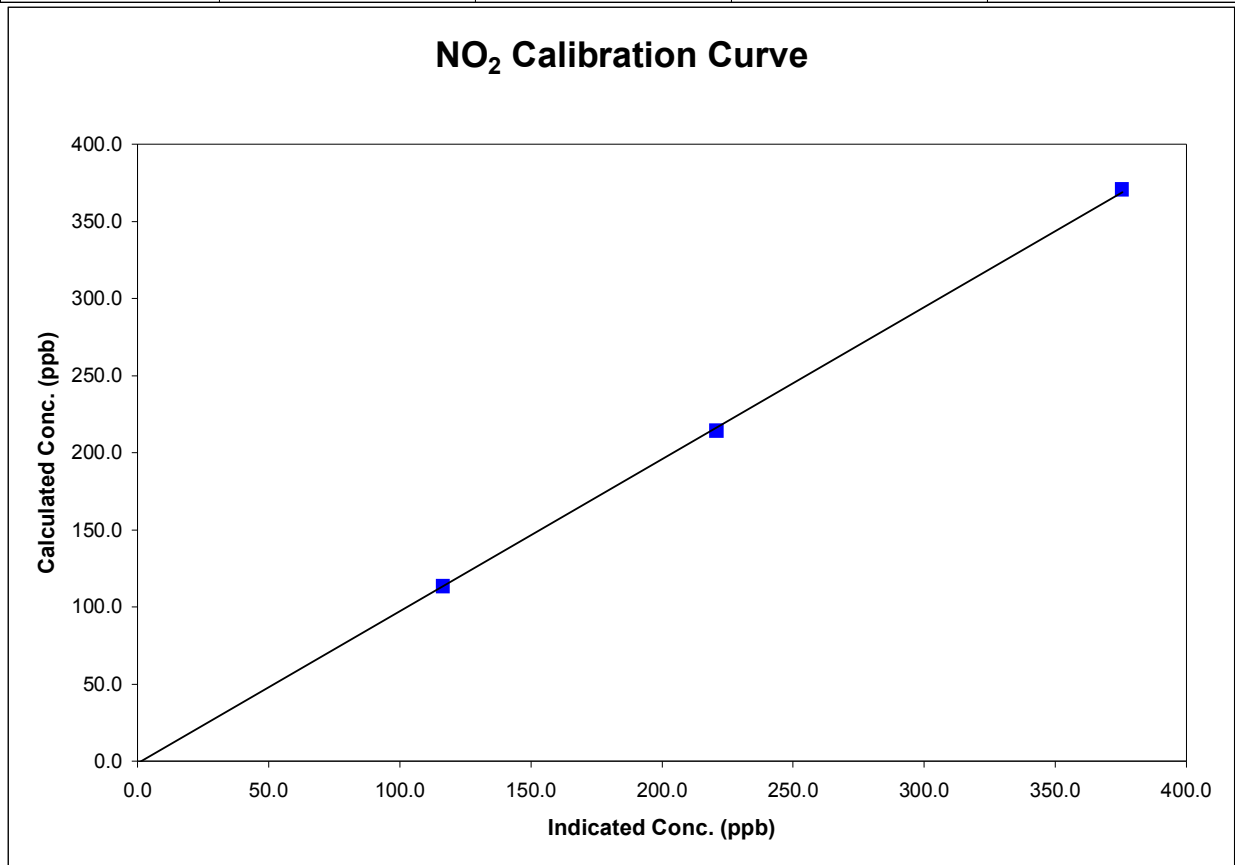


Station Information

Calibration Date	January 13, 2006	Previous Calibration	January 11, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:55	End Time (MST)	13:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000	Correlation Coefficient	0.999829
370.7	375.6	0.9871		
213.9	221.0	0.9682	Slope	0.985294
113.2	116.5	0.9717		



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

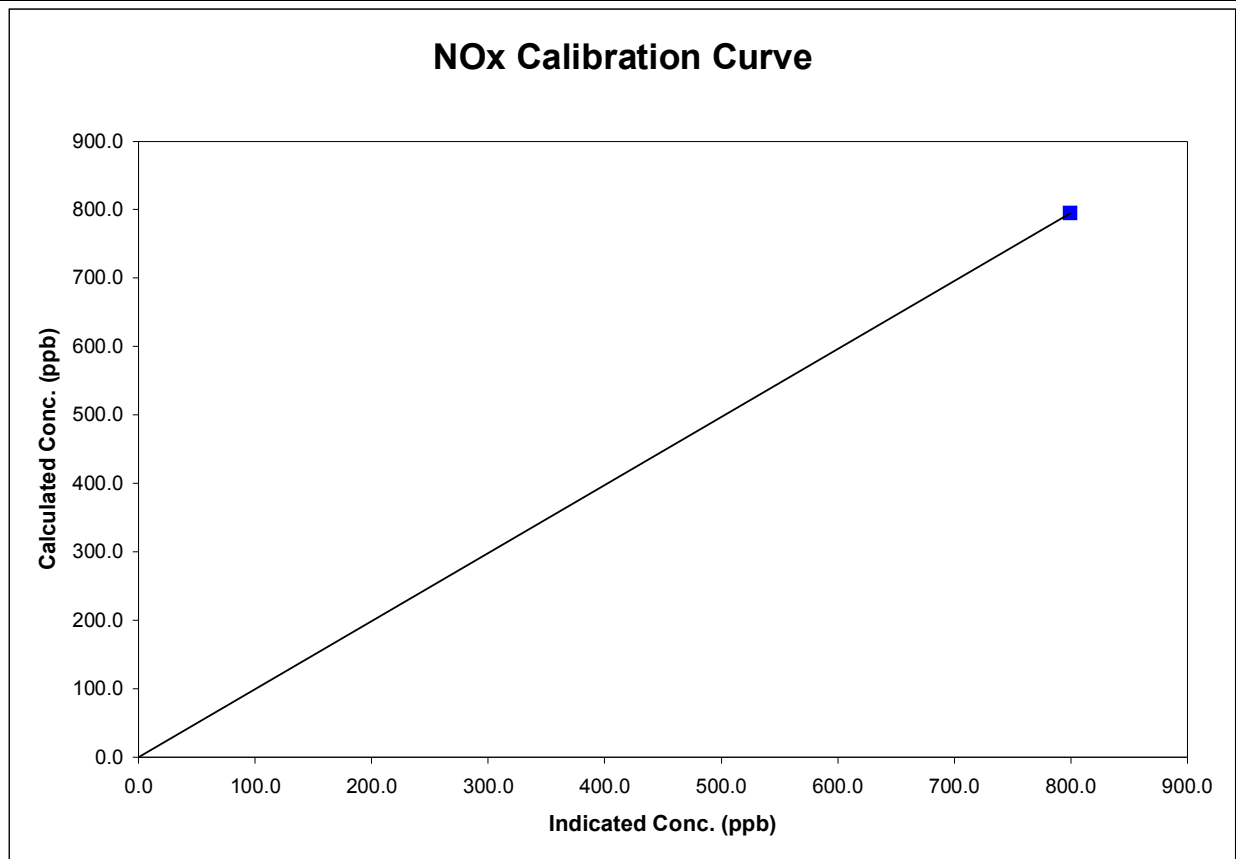


Station Information

Calibration Date	January 13, 2006	Previous Calibration	January 11, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:55	End Time (MST)	13:30
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		
794.6	799.5	0.9939	Correlation Coefficient	1.000000
			Slope	0.993497
			Intercept	0.314195



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

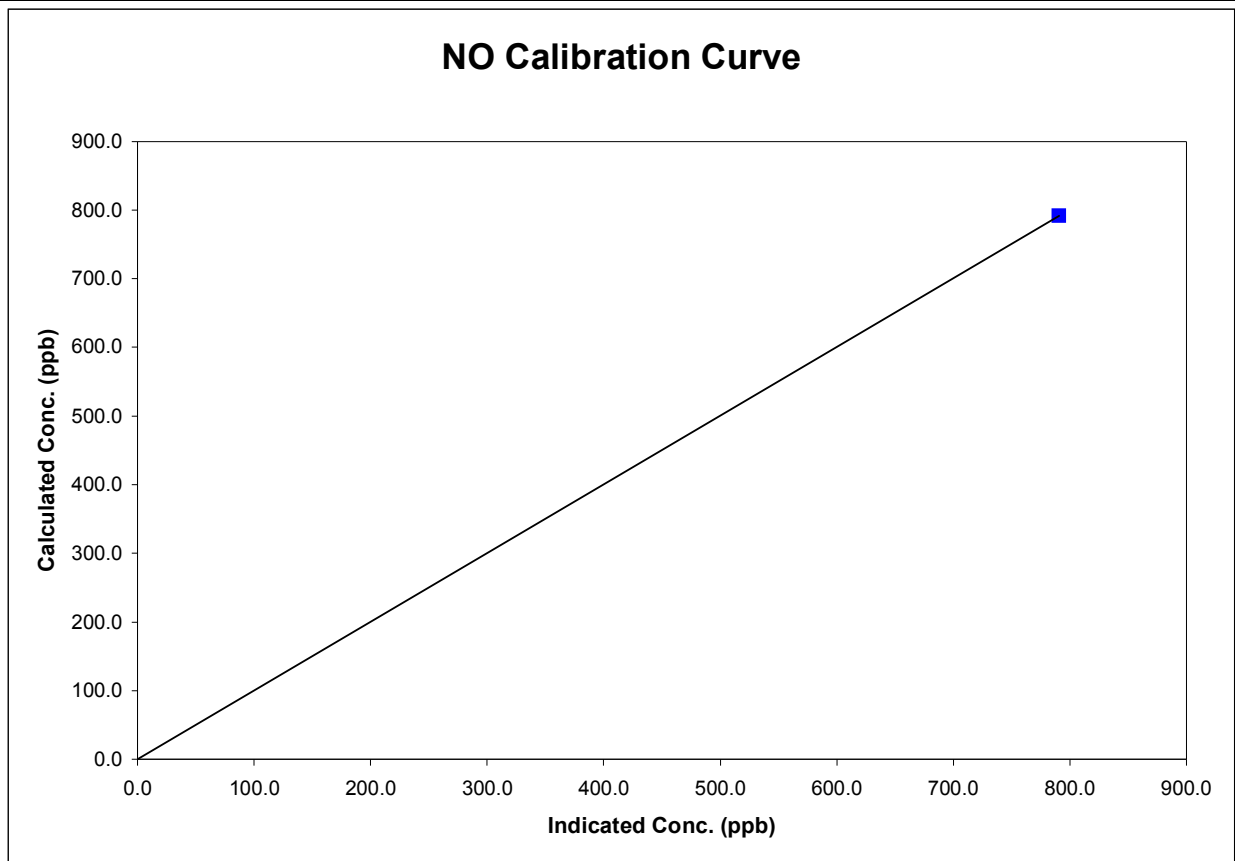


Station Information

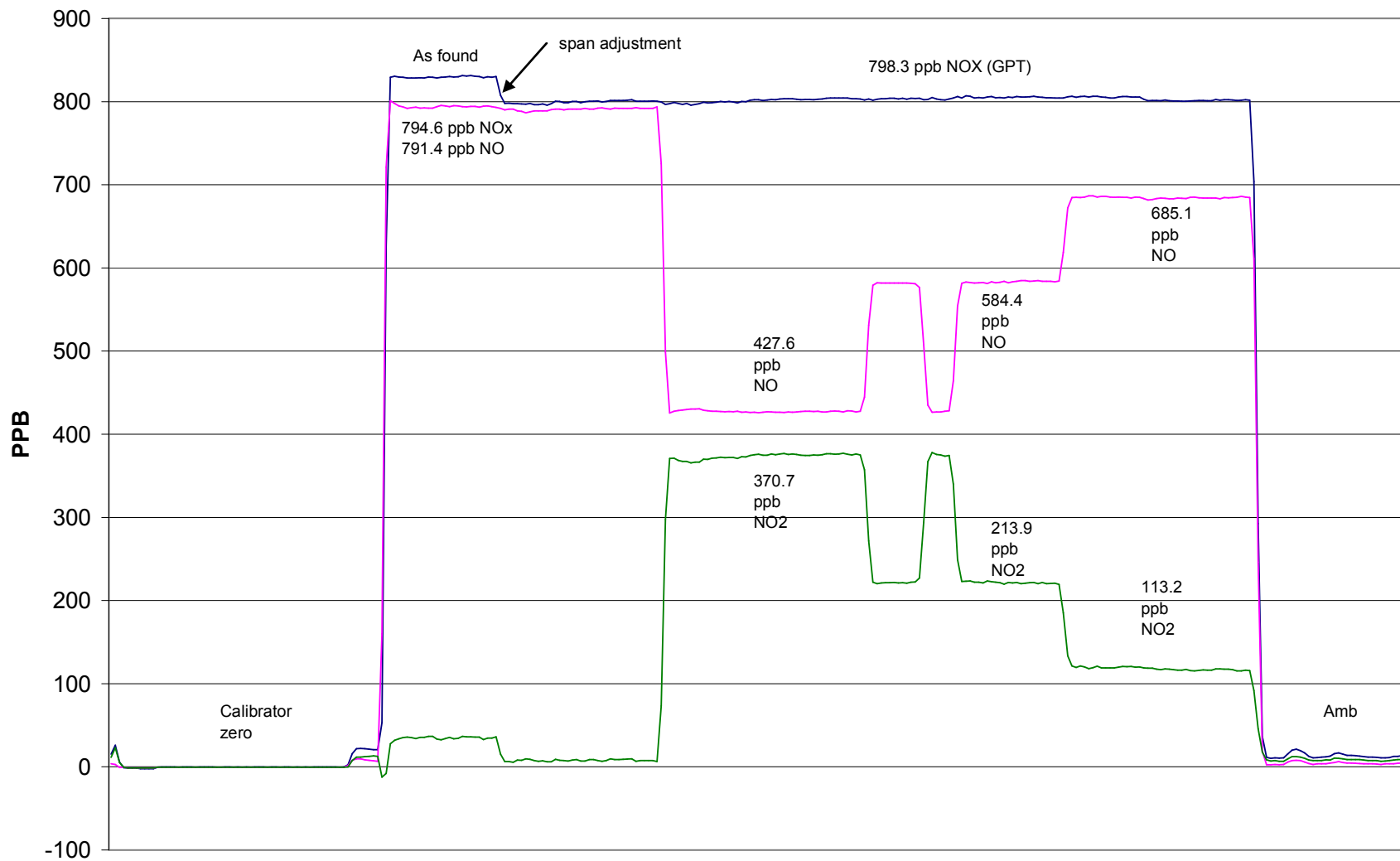
Calibration Date	January 13, 2006	Previous Calibration	January 11, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	10:55	End Time (MST)	13:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
791.4	790.7	1.0009	Correlation Coefficient	1.000000
			Slope	1.000424
			Intercept	0.388305



NOx Calibration



January 13, 2006

Calibration Report

Parameter O3
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	January 13, 2006	Previous Calibration	December 7, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	12:57	End Time (MST)	12:58
Barometric Pressure	0.901 atm	Station Temperature	20.0 Deg C
Calibrator	Enviro-nics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.012502	Calculated slope	0.994381
Calculated intercept	-0.260853	Calculated intercept	-0.999241
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.5	ppb	0.2	ppb
slope	1.032		1.067	
Lamp temp	70.9	mV	70.9	mV
Lamp Intensity A/B	92050/89580	mV	87790/85200	mV
Pressure	672.5	inches Hg	683.6	inches Hg
Flow A	741	ccm	749	ccm
Flow B	699	Deg C	709	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)
4993	0.00	0.0	-0.5	N/A
4993	0.00	373.5	375.3	0.9952
4993	0.00	217.0	220.8	0.9829
4993	0.00	116.5	119.5	0.9755
4993	0.00	0.0	-0.5	As found zero
4993	0.00	373.5	359.5	As found span
Average Correction Factor				0.9845

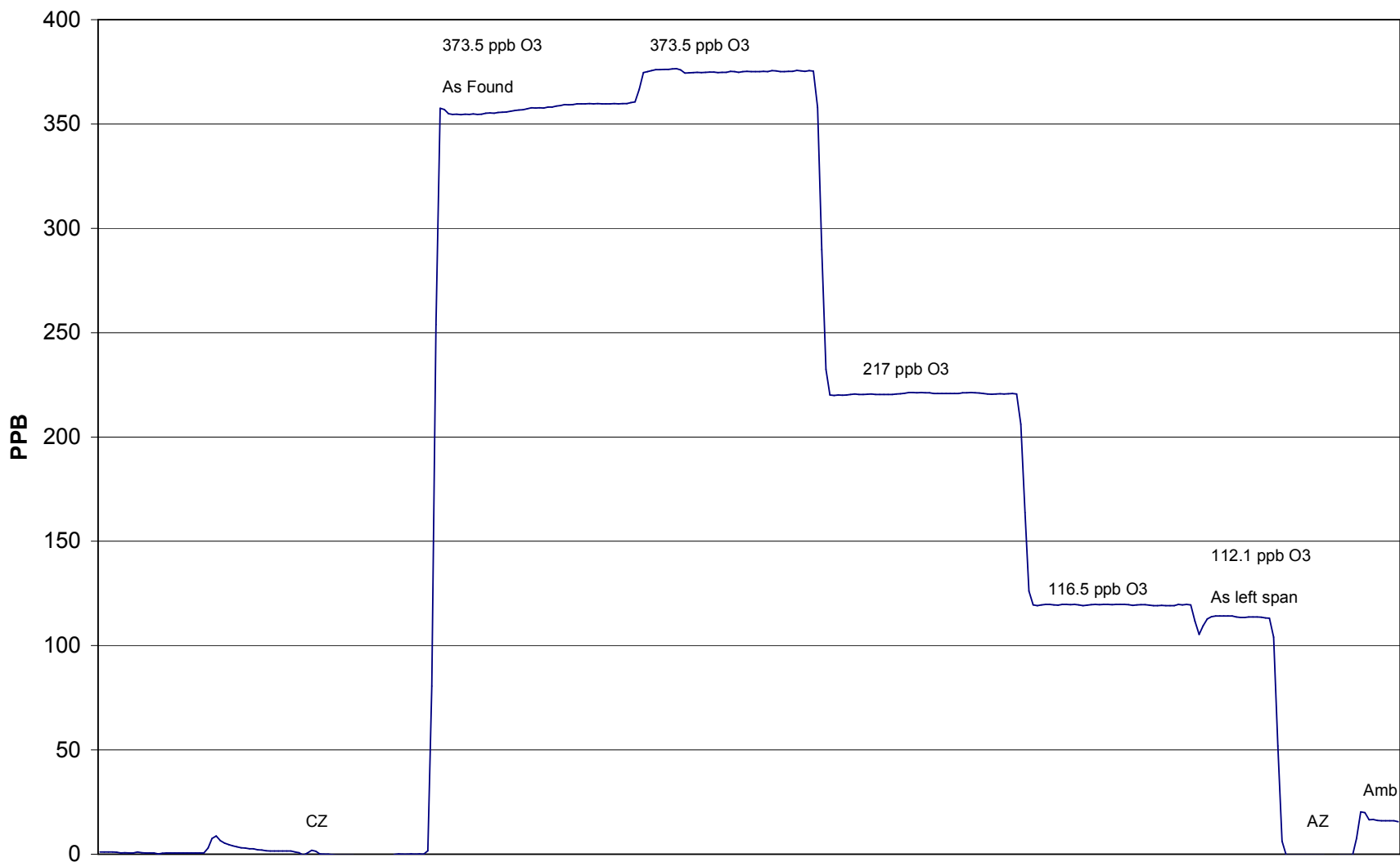
Calculated value of As Found Response: 364.3 ppm Percent Change of As Found: -2.5%

	before calibration		after calibration	
Auto zero	-11.2	ppb	-1.5	ppb
Auto span	102.4	ppb	112.1	ppb

Notes: Adjusted span.

Calibration Performed By: Dawn Ewan

O3 Calibration



January 13, 2006

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

Calibration Date	January 10, 2006	Previous Calibration	December 7, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:00	End Time (MST)	15:00
Barometric Pressure	0.897 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	10

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.68	SLPM
Filter Load	38	%	39	%
Ko Factor	14287		14287	
Temperature	-4.2	Deg C	-4.2	Deg C
Pressure	0.897	ATM	0.897	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.01
zero flow - auxiliary	0.0	0.00		0.04
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	46
Temperature	measured	-4.2	+/- 1.0 Deg C	-4.2
Pressure	measured	0.897	+/- 1.5% Δ ATM	0.897
Total Flow	16.67 SLPM	16.10		
Main Flow	13.67 SLPM	13.55	+/- 1.0 SLPM	13.68
Auxiliary Flow	3.0 SLPM	3.033	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	-0.03
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.09
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: Cleaned head.
Reinstalled old filter

Calibration Performed By: Dawn Ewan