Air Quality Monitoring Network for May 2006

Prepared by

FOCUS
AMBIENT AIR MONITORING

July 13, 2006

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

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

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

During the month of May the following events were noted:

- At Henry Pirker, the SO_2 and TRS permeation tubes were replaced on May 2, 2006.
- On May 11th the THC did not span as all spans were reset after the NO_X calibration on that day. The THC spans, at Henry Pirker, dropped May 13th, technician accidently bumped valve. There are continued span pressure issues and during the calibration on May 23rd the pump was rebuilt.
- The solar radiation sensor was replaced on May 23rd at Henry Pirker with a factory calibrated sensor. This is done on a routine basis as the the sensor can only be calibrated at the manufacturers factory site.
- Numerous attempts were made to repair the analyzer drift associated with the SO_2 API 102 at Evergreen Park, however this was met with no success. The analyzer was replaced on May 18th (TECO 43 analyzer). This resulted in an operational uptime of 66.4% (Alberta Enironment Non-Compliance Reference # 173760).
- The TRS analyzer at Evergreen Park had two days of missing spans (May 26th and 27th) the reason for this is indeterminate.
- The TEOM analyzer at Evergreen Park was down for maintenance on May 18th – a leak check was performed.
- The declination for the wind direction at Evergreen Park was out by 62°. The data has been adjusted accordingly, and on June 20th the wind head was realigned to its proper orientation. It was determined this began in January 2006. Past monthly tables will be adjusted and resubmitted.
- On May 23rd at 04:00, there was one hour of data not captured (reason is indeterminate) for all the parameters at Smoky Heights (SO_2, TRS, $PM_{2.5}$, wind speed, wind direction and temperature).
- The TRS spans at Smoky Heights continued to drop until May 4th when a new permeation tube was installed. The rate of this tube was slightly high which resulted in the spans going off scale. A needle valve was installed in June to control the spans.

- A power bump on May 19th resulted in an hour of invalid data of the TEOM analyzer ($PM_{2.5}$ sensor) at Beaverlodge, for restabilization time.

- All other analyzers / sensors in the network were above 90% uptime.

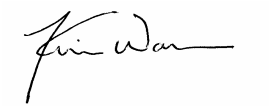
Passive Monitoring: **43 Stations throughout the PASZA zone:**

No problems were observed with any of the sampling sites for the month of May 2006.
A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO_2 passives ranged from 0.1 ppb to 0.5 ppb.
- Monthly average concentrations for NO_2 passives ranged from 0.1 ppb to 4.1 ppb.
- Monthly average concentrations for O_3 passives ranged from 29.4 ppb to 43.6 ppb.

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

On Behalf of the,
Peace Airshed Zone Association



Kevin Warren
PASZA Technical Program Manager

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

July 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 # 173760

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 May 2006 for the SO_2 analyzer at Evergreen Park (located SE of Grande Prairie). A number of attempts were made to repair the problems with no success, the API 102 analyzer was replaced on May 18th 2006. The data has been adjusted accordingly resulting in a number of invalid hours due to; maintenance and excessive baseline drift. The station is owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 173760.

Long term solutions to this problem; if the original analyzer is deemed not repairable, a replacement analyzer will be purchased to replace the rental unit currently in place.

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

Sincerely,

THE FOCUS CORPORATION

Gary Cross
AQM Technical Manager

PASZA Monthly Continuous Data Summary

May-2006	Peace Airshed Zone Assocation						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant	Objectives		Station	Monthly	Exceedence		Conc	Day	WSPD	WDIR	Conc	Day	Operational
(units)	1-hr	24-hr		Average	1-hr	24-hr			(km/hr)	(Sector)			Time (%)
SO_2 (**ppb**)	172	57	Henry Pirker	0.2	0	0	2.6	May-24 11:00	5.0	NNE	0.5	May-24	100.0%
SO_2 (**ppb**)	172	57	Evergreen Park	1.2	0	0	8.6	May-03 08:00	5.5	SSW	2.2	May-28	66.4%
SO_2 (**ppb**)	172	57	Smoky Heights	0.3	0	0	3.1	May-04 05:00	15.4	W	0.9	May-30	99.9%
SO_2 (**ppb**)	172	57	Beaverlodge	0.4	0	0	21.6	May-21 23:00	5.6	W	2.9	May-21	100.0%
NO (**ppb**)			Henry Pirker	1.1	-	-	24.9	May-03 06:00	4.8	WSW	2.9	May-10	100.0%
NO_2 (**ppb**)	212	106	Henry Pirker	5.5	0	0	29.9	May-01 06:00	4.4	SW	10.0	May-10	100.0%
NO_X (**ppb**)			Henry Pirker	6.7	-	-	48.6	May-01 06:00	4.4	SW	12.8	May-10	100.0%
NO (**ppb**)			Beaverlodge	0.2	-	-	9.7	May-27 06:00	1.7	W	1.1	May-27	100.0%
NO_2 (**ppb**)	212	106	Beaverlodge	1.9	0	0	17.0	May-01 05:00	8.0	NW	3.8	May-16	100.0%
NO_X (**ppb**)			Beaverlodge	2.1	-	-	24.1	May-15 06:00	4.0	WNW	4.8	May-16	100.0%
O_3 (**ppb**)	82		Henry Pirker	32.1	0	-	59.2	May-15 16:00	6.3	NNE	42.2	May-07	100.0%
O_3 (**ppb**) - **8-hr**	65		Henry Pirker		0						53.9	May-14	
O_3 (**ppb**)	82		Beaverlodge	38.8	0	-	66.3	May-15 16:00	7.8	E	50.5	May-15	100.0%
O_3 (**ppb**) - **8-hr**	65		Beaverlodge		0						63.3	May-15	
CO (**ppm**)	13		Henry Pirker	0.21	0	-	0.5	May-28 21:00	3.6	S	0.3	May-20	100.0%
CO (**ppm**) - **8-hr**	5		Henry Pirker		0						0.3	May-29	
THC (**ppm**)			Henry Pirker	1.96	-	-	2.5	May-15 06:00	6.6	NW	2.1	May-15	100.0%
TRS (**ppb**)			Henry Pirker	0.2	-	-	1.1	May-03 06:00	4.8	WSW	0.3	May-20	100.0%
TRS (**ppb**)			Evergreen Park	0.5	-	-	2.2	May-16 19:00	4.0	ENE	1.0	May-16	100.0%
TRS (**ppb**)			Smoky Heights	0.6	-	-	1.6	May-15 03:00	2.4	WSW	0.8	May-18	99.9%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Henry Pirker	4.0	0	0	25.4	May-20 15:00	10.1	E	10.3	May-20	99.3%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Evergreen Park	4.3	0	0	48.6	May-06 13:00	28.2	W	12.6	May-06	98.3%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Smoky Heights	3.9	0	0	39.0	May-11 06:00	6.2	NNW	7.7	May-20	99.6%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Beaverlodge	3.5	0	0	36.0	May-19 13:00	17.8	ESE	10.2	May-19	98.5%
RH (**%**)			Henry Pirker	54.0	-	-	-	-	-	-	-	-	100.0%
RH (**%**)			Beaverlodge	50.5	-	-	-	-	-	-	-	-	100.0%
SR (**W/m^2**)			Henry Pirker	230.3	-	-	-	-	-	-	-	-	99.9%
Temp (**°C**)			Henry Pirker	12.4	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Evergreen Park	11.6	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Smoky Heights	12.0	-	-	-	-	-	-	-	-	99.9%
Temp (**°C**)			Beaverlodge	11.8	-	-	-	-	-	-	-	-	100.0%
WSPD v (**km/hr**)			Henry Pirker	5.4	-	-	34.9	May-08 13:00	34.9	WNW	26.3	May-08	100.0%
WSPD v (**km/hr**)			Evergreen Park	4.3	-	-	27.7	May-06 13:00	27.7	W	20.5	May-08	100.0%
WSPD v (**km/hr**)			Smoky Heights	5.6	-	-	41.3	May-06 11:00	41.3	WSW	26.5	May-08	99.9%
WSPD v (**km/hr**)			Beaverlodge	3.8	-	-	31.6	May-21 14:00	31.6	WSW	19.2	May-08	100.0%
WSPD s (**km/hr**)			Henry Pirker	11.6	-	-	35.2	May-08 13:00	35.2	WNW	27.5	May-08	100.0%
WSPD s (**km/hr**)			Evergreen Park	9.2	-	-	28.2	May-06 13:00	28.2	W	20.9	May-08	100.0%
WSPD s (**km/hr**)			Smoky Heights	13.7	-	-	41.8	May-06 11:00	41.8	WSW	28.0	May-08	99.9%
WSPD s (**km/hr**)			Beaverlodge	10.9	-	-	31.8	May-21 14:00	31.8	WSW	20.2	May-08	100.0%
WDIR (**Deg**)			Henry Pirker	W	-	-	-	-	-	-	-	-	100.0%
WDIR (**Deg**)			Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR (**Deg**)			Smoky Heights	W	-	-	-	-	-	-	-	-	99.9%
WDIR (**Deg**)			Beaverlodge	WNW	-	-	-	-	-	-	-	-	100.0%

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

* Wind Direction is the predominate direction for the Month

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Calibrations were performed on May 2nd (SO_2, TRS and CO), May 11th (NO_X), May 15th (O_3) and May 23rd THC and TEOM).

Parameter	Make	Model	Notes
SO_2	TECO	43	Perm tube replaced May 2nd.
NOx/NO/NO_2	TECO	42C	No operational problems observed.
O_3	API	400	No operational problems observed.
CO	TECO	48C	No operational problems observed.
THC	TEI	51-CLT	On May 11th the analyzer did not span as all spans were reset after NO_X calibration. Continued span pressure issues. Pump rebuilt on May 23rd, a cracked diaphragm was found during the rebuild.
TRS	TEI	42C	Perm tube replaced May 2nd.
$PM_{2.5}$	R&P	1400AB	Five (5) hours were removed due to 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	The sensor was replaced with a factory calibrated sensor on May 23rd.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

PASZA – Evergreen Park Station

General Station Issues

The temperature in the station reached as high as 40°C, which created some of the issues with the SO_2 analyzer. however the SO_2 analyzer had continuing stability and drift issues. On May 8th and 9th a number of attempts were made to repair the SO_2 API 102 analyzer, it was replaced on May 18th with a TECO analyzer. Calibrations were performed on May 8th (SO_2 and TRS), May 9th (SO_2 and TEOM) and May 18th (SO_2). The thermostat in air conditioning unit was replaced May 9th.

Parameter	Make	Model	Notes
SO_2	API	100	The SO_2 API 102 analyzer was replaced on May 18th with a TECO 43 analyzer. There were eleven (11) hours of data flagged for maintenance, and eighteen (18) hours of data flagged for not in service. There were two hundred and twenty-one (221) hours removed due to excessive drift.
TRS	TEI	42C	The TRS analyzer had two days of missing spans (May 26th and 27th) the reason for this is indeterminate.
$PM_{2.5}$	R&P	1400AB	Seven (7) hours were removed due to baseline drift. Maintenance was performed on May 18th in which a complete leak check was undertaken.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	The declination in the wind direction is out by 62°. The data has been adjusted accordingly. The wind head was realigned on June 20th.

PASZA – Smoky Heights Station

General Station Issues

There was one hour of data missing (reason is indeterminate). Calibrations were performed on May 4th (TEOM, SO_2, and TRS).

Parameter	Make	Model	Notes
SO_2	API	100A	No operational problems observed.
TRS	TEI	42C	A new perm tube was installed on May 4th. The rate of this tube was slightly higher which resulted in spans going off scale.
$PM_{2.5}$	R&P	1400AB	Two (2) hours were removed due to baseline drift.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

PASZA – Beaverlodge Station

General Station Issues

No general station issues noted during the month of May. Calibrations were performed on May 24th (NO_X), and May 25th (TEOM, O_3 and SO_2.

Parameter	Make	Model	Notes
SO_2	TECO	43CTL	No operational problems observed.
$NOx/NO/NO_2$	TECO	42C	No operational problems observed.
O_3	API	400	No operational problems observed.
$PM_{2.5}$	R&P	1400AB	Ten (10) hours were removed due to baseline drift. A power bump on May 19th resulted in an hour of invalid data as it was slow to respond.
AT	n/a	n/a	No operational problems observed.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	No operational problems observed.
WD	Blue Sky	857	No operational problems observed.

PASZA - Henry Pirker Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Henry Pirker - AQI Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: May 1, 2006 to June 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:	668
Number of 1-hr Fair Readings:	36
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-May-06	13	12	10	10	10	7	7	10	19	21	21	24	25	24	25	25	N	24	24	23	19	17	17	17
2-May-06	15	16	15	16	17	18	17	17	18	18	18	N	N	20	21	22	22	22	22	21	15	13	7	12
3-May-06	12	10	6	5	4	N	6	8	12	14	19	23	23	24	24	24	24	24	23	21	16	17	18	17
4-May-06	16	15	15	15	N	13	9	10	16	20	21	21	20	20	20	20	20	20	21	20	16	11	8	8
5-May-06	11	13	13	N	13	13	10	15	17	17	18	18	18	18	18	18	19	20	21	20	15	17	19	14
6-May-06	18	18	N	19	18	14	13	18	20	21	22	23	24	23	22	22	21	23	25	24	23	21	19	18
7-May-06	18	N	15	15	16	13	11	14	19	22	22	23	N	28	27	27	26	26	26	24	22	22	23	24
8-May-06	N	22	22	21	19	19	19	18	18	17	18	18	20	22	22	22	23	23	22	21	18	17	17	N
9-May-06	17	16	16	16	14	12	11	15	19	19	21	21	22	23	23	24	24	24	24	22	15	14	N	16
10-May-06	15	12	9	6	6	7	7	7	12	14	18	20	23	24	24	24	24	23	23	22	18	N	11	12
11-May-06	12	13	14	12	9	8	7	9	10	20	22	23	24	25	26	27	26	25	26	24	19	18	23	22
12-May-06	19	17	17	18	18	N	12	14	15	16	16	16	17	18	17	18	17	17	19	19	18	14	15	16
13-May-06	15	17	16	18	N	15	16	16	19	22	22	23	24	24	26	26	25	25	25	22	18	16	17	15
14-May-06	11	11	13	N	11	8	13	15	18	20	21	23	24	27	29	29	30	30	30	27	22	14	10	7
15-May-06	7	6	N	4	4	6	6	11	15	20	2	4	3	4	3	31	33	32	32	29	21	21	22	21
16-May-06	17	10	8	9	7	N	12	17	19	20	21	24	25	26	26	26	24	25	26	23	16	14	17	16
17-May-06	15	13	10	7	N	9	10	11	17	21	22	21	20	21	21	22	22	22	21	22	20	22	20	17
18-May-06	18	13	15	N	13	10	9	10	20	27	27	28	28	28	27	27	26	25	24	23	20	17	18	17
19-May-06	18	17	N	16	13	14	15	16	19	20	21	22	23	23	24	22	20	20	21	24	22	19	19	18
20-May-06	18	N	17	16	15	14	12	12	12	12	11	11	12	11	14	21	10	9	9	8	8	11	13	14
21-May-06	N	N	13	N	N	N	17	15	19	20	21	21	21	21	21	21	22	22	21	21	20	17	17	N
22-May-06	15	15	13	10	8	6	10	11	14	19	21	22	23	23	23	22	23	24	25	24	22	20	N	17
23-May-06	17	15	12	11	11	12	11	11	11	9	10	11	12	12	N	N	13	12	10	10	10	10	11	11
24-May-06	11	12	9	7	5	N	6	7	8	9	11	12	14	15	15	15	14	15	13	11	11	11	9	11
25-May-06	12	12	11	9	N	7	9	13	14	15	15	16	17	18	18	17	15	16	15	15	14	13	12	15
26-May-06	15	15	14	N	13	13	11	10	11	11	10	8	10	11	9	11	12	11	10	9	7	7	7	5
27-May-06	3	2	N	2	2	2	2	4	9	12	12	13	15	17	17	17	16	17	17	16	14	8	8	9
28-May-06	8	N	9	9	9	8	8	8	10	11	13	15	16	18	19	19	18	18	19	18	11	7	10	12
29-May-06	N	10	12	11	8	9	8	7	8	9	10	12	14	16	18	18	15	15	18	15	14	13	13	N
30-May-06	10	9	6	5	4	3	3	4	7	11	14	15	18	18	19	19	19	19	18	15	14	9	N	12
31-May-06	11	11	13	12	12	11	10	10	12	14	17	18	19	19	19	19	19	19	20	20	14	N	11	12

PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

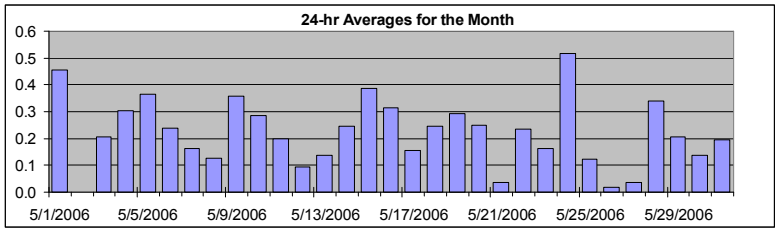
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	2.6	ppb	24-May	11:00 12:00
Maximum 24-hr Average:	0.5	ppb	24-May	

AIC Time:	33 hrs	Operational Time:	705 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.6	0.3	0.2	0.1	0.0	0.0	0.2 ppb	0.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0.5	1.5
2-May-06	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	A	A	0	0	0	0	N	0.4
3-May-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
4-May-06	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.6
5-May-06	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
6-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
7-May-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
8-May-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2
9-May-06	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5
10-May-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	0.3	0.5
11-May-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
12-May-06	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
13-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
14-May-06	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
15-May-06	0	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
16-May-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
17-May-06	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
18-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.2	0.6
19-May-06	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0.3	0.6
20-May-06	0	A	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0.8
21-May-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.2
22-May-06	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	1.4
23-May-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-May-06	0	0	0	0	0	A	0	1	1	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0.5	2.6
25-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
26-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
27-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
28-May-06	0	A	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.4
29-May-06	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.6
30-May-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	0.1	0.4
31-May-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	0.2	0.4
Hourly Avg	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Hourly Max	0.6	0.4	0.5	0.5	0.4	0.6	0.7	0.8	1.5	1.4	1.5	2.6	1.9	0.8	0.6	0.6	0.4	0.6	0.5	0.4	0.4	0.4	0.5	0.5		

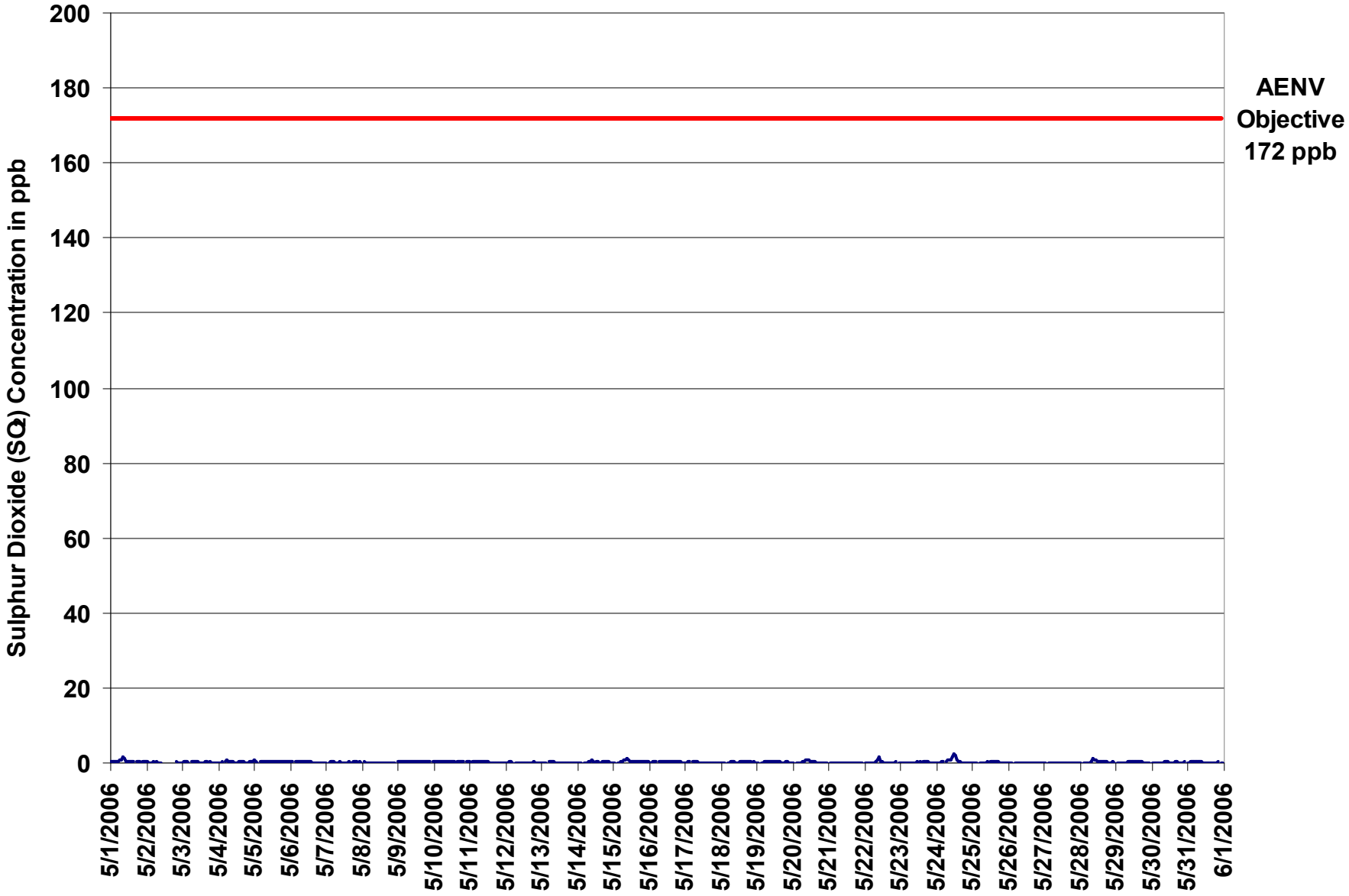


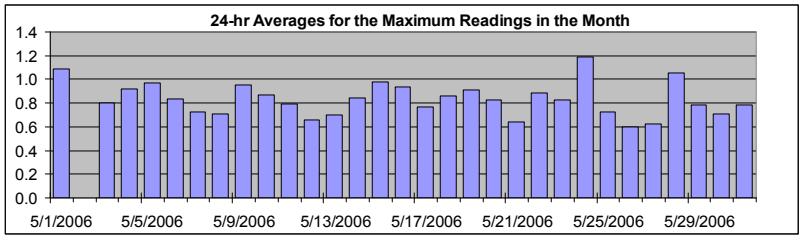
Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	3.2	ppb	24-May	11:00 12:00
Maximum 24-hr Value:	1.2	ppb	24-May	

AIC Time:	33 hrs	Operational Time:	705 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.2	1.0	0.8	0.7	0.5	0.4	0.8 ppb	0.8 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.1	2.2
2-May-06	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C	1	A	A	1	1	1	1	N	1.2
3-May-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	1.2
4-May-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	0.9	1.4
5-May-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	1.0	1.4
6-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
7-May-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
8-May-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9
9-May-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	1.1
10-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.1
11-May-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	0.8	1.1
12-May-06	1	1	1	1	1	A	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.7	1.5
13-May-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.0
14-May-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	0.8	1.1
15-May-06	1	1	A	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
16-May-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
17-May-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	0.8	1.3
18-May-06	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
19-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
20-May-06	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	0.8	1.7
21-May-06	A	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	A	0.6	1.1
22-May-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	0.9	2.5
23-May-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	0.8	1.4
24-May-06	1	1	1	1	1	A	1	1	2	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1.2	3.2
25-May-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	0.7	1.1
26-May-06	1	1	1	A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	0.8
27-May-06	0	1	A	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.6	0.9
28-May-06	1	A	1	1	1	1	1	1	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.8
29-May-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0.8	1.2
30-May-06	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	1.0
31-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	0.8	1.2
Hourly Avg	0.8	0.7	0.8	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8		
Hourly Max	1.4	1.1	1.5	1.1	1.0	1.4	1.4	1.6	2.8	2.5	2.9	3.2	2.9	1.6	1.2	1.3	1.1	1.3	1.2	1.0	1.1	1.1	1.1	1.3		

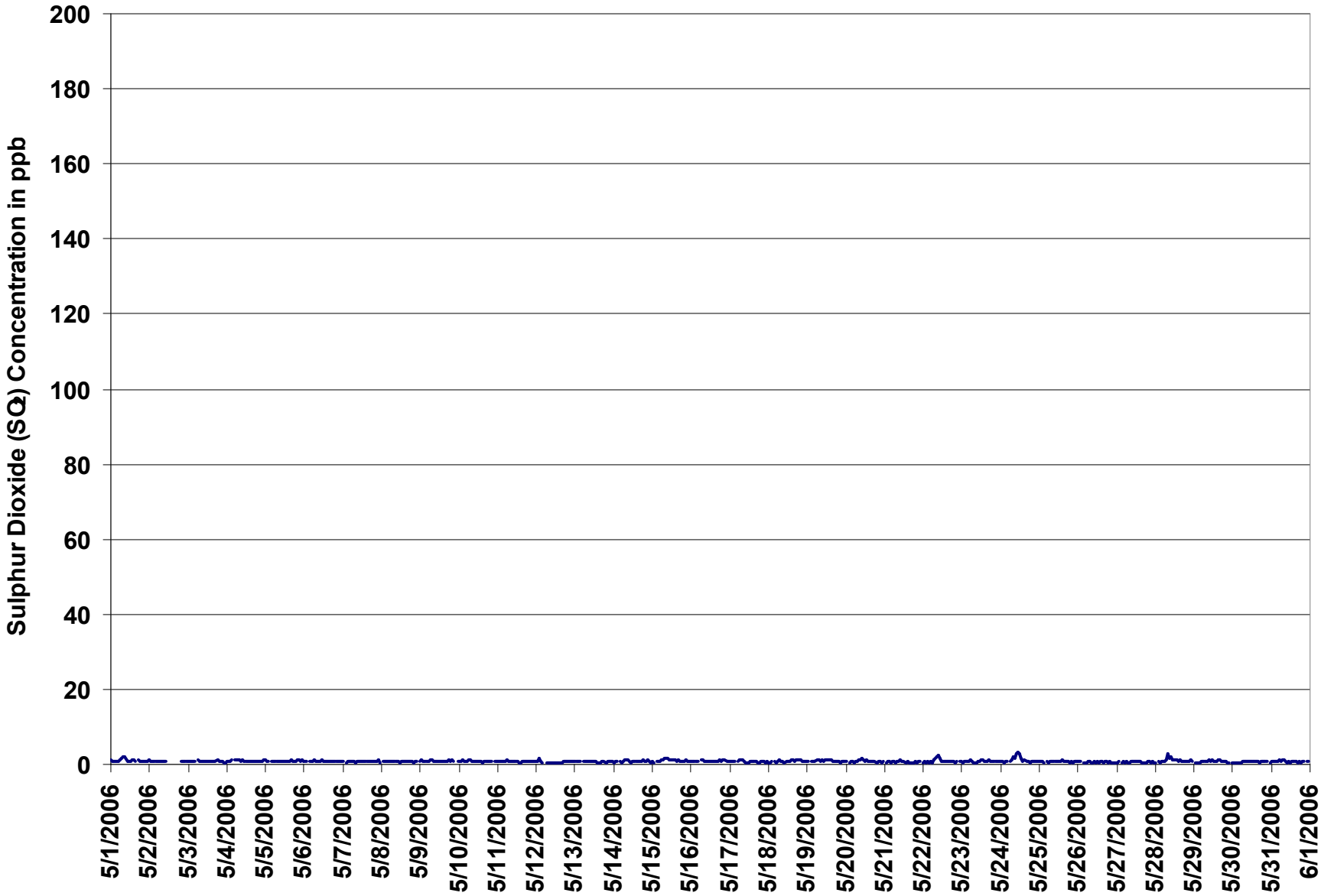
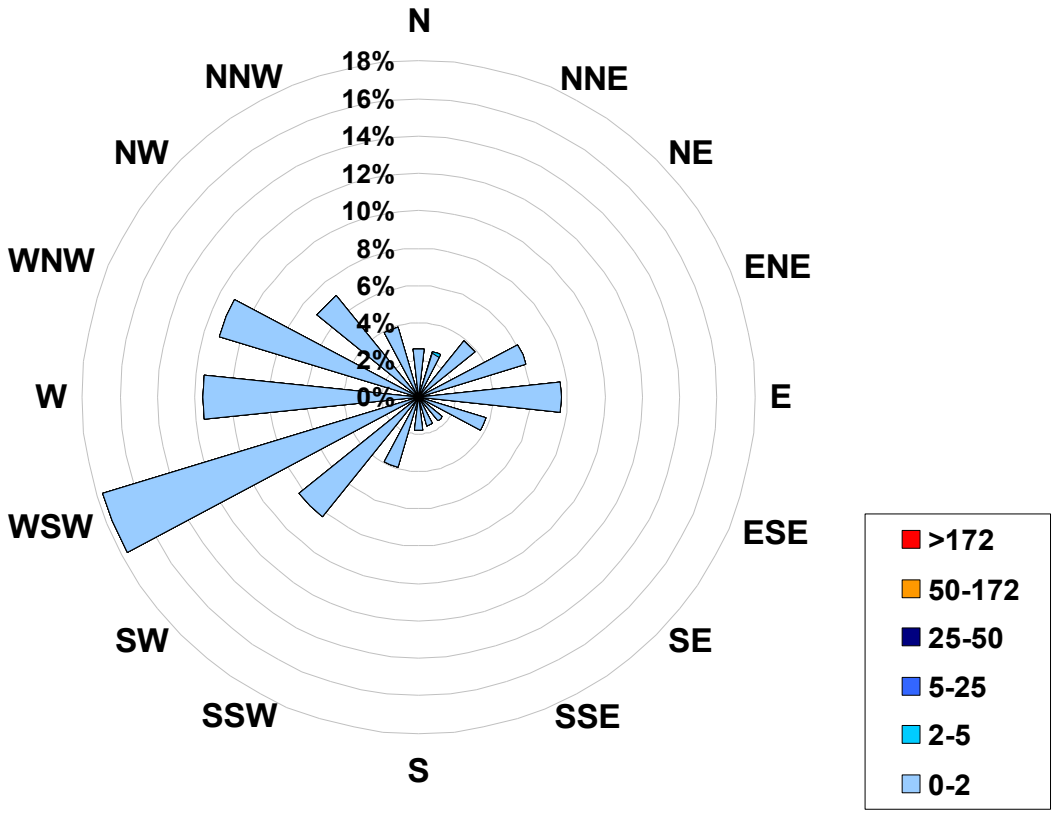


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	704
2	to	5	1
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			705

PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

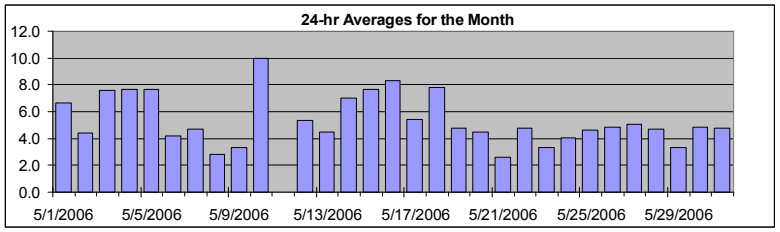
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	29.9	ppb	1-May	6:00 7:00
Maximum 24-hr Average:	10.0	ppb	10-May	



AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	23.6	16.5	6.9	3.8	2.3	1.4	1.2	5.5 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	6	6	8	8	9	18	30	22	4	3	5	2	2	3	2	2	A	3	2	2	4	5	3	3	6.7	29.9
2-May-06	3	4	4	3	3	3	3	3	3	2	2	1	1	1	2	1	2	2	2	4	10	13	18	18	4.4	18.0
3-May-06	14	12	11	18	17	A	24	15	8	7	5	2	1	1	2	1	2	2	3	5	10	7	4	4	7.6	23.7
4-May-06	4	4	5	4	A	13	21	19	8	4	2	1	2	2	2	4	5	4	3	3	9	15	21	20	7.7	21.0
5-May-06	11	9	6	A	8	11	17	10	6	5	4	4	3	3	3	4	3	1	1	3	9	22	24	10	7.7	24.3
6-May-06	4	4	A	4	5	11	12	5	3	2	2	3	2	2	3	3	3	2	2	1	2	4	8	9	4.2	12.1
7-May-06	6	A	14	11	10	12	11	9	5	2	2	2	1	2	2	2	2	2	2	3	3	2	1	1	4.7	14.3
8-May-06	A	2	1	1	2	3	3	5	4	5	4	4	3	2	2	2	2	2	2	4	5	2	2	A	2.8	5.3
9-May-06	2	2	2	2	4	7	10	6	2	2	2	1	1	1	2	1	1	1	2	3	8	9	A	5	3.3	10.3
10-May-06	5	7	14	20	23	26	28	22	12	7	4	3	2	2	1	1	2	2	2	4	9	A	18	16	10.0	27.8
11-May-06	14	9	7	8	12	26	24	24	21	C	C	C	C	C	C	C	A	5	4	6	14	12	2	2	N	26.4
12-May-06	3	3	3	3	3	A	9	8	6	5	6	6	6	6	6	4	3	3	3	5	6	10	9	7	5.3	10.0
13-May-06	9	4	4	2	A	10	8	7	4	2	2	1	1	2	1	1	1	2	1	4	11	13	7	8	4.5	13.2
14-May-06	12	11	7	A	10	15	8	5	3	2	2	2	2	1	1	2	2	3	3	5	9	20	20	16	7.0	20.4
15-May-06	17	10	A	13	17	20	12	9	8	9	3	2	2	2	3	2	3	4	4	5	12	7	6	7	7.7	19.9
16-May-06	8	12	14	12	16	A	21	11	8	7	7	4	3	2	2	3	4	4	5	8	16	17	4	5	8.3	21.0
17-May-06	5	6	9	12	A	14	13	10	4	3	3	2	3	2	3	2	3	3	2	2	5	4	7	11	5.4	14.4
18-May-06	6	13	10	A	10	17	23	22	7	3	2	2	2	2	2	2	4	5	5	7	10	11	8	9	7.8	23.2
19-May-06	6	5	A	7	9	9	8	7	4	4	3	4	3	3	3	4	4	4	3	4	3	4	3	5	4.7	9.0
20-May-06	4	A	4	2	3	3	4	4	4	5	7	5	4	4	5	5	5	5	5	4	5	5	5	5	4.5	7.0
21-May-06	A	5	3	3	5	4	3	3	2	2	2	2	2	2	2	2	2	1	1	2	3	5	3	A	2.6	4.7
22-May-06	6	6	7	9	8	11	8	10	8	3	2	2	1	2	2	2	2	3	3	4	4	3	A	4	4.8	10.6
23-May-06	2	2	2	2	2	3	5	6	6	8	6	3	3	2	2	2	3	3	3	3	3	3	3	2	3.3	8.3
24-May-06	2	2	3	3	5	A	7	4	6	6	5	4	4	2	3	3	3	3	5	4	4	4	5	4	4.0	7.2
25-May-06	3	3	3	5	A	16	9	4	5	3	7	9	7	5	4	2	3	2	2	2	3	3	3	2	4.6	16.3
26-May-06	2	2	2	A	4	5	8	8	7	6	5	5	6	4	5	4	4	3	3	4	5	6	6	8	4.8	8.1
27-May-06	13	7	A	8	7	6	4	3	3	3	5	4	3	2	2	1	2	2	2	2	5	14	11	9	5.1	14.0
28-May-06	10	A	7	5	4	3	2	3	3	2	2	2	1	1	2	3	3	4	2	3	12	20	11	4	4.7	20.2
29-May-06	A	6	5	5	6	4	3	4	2	2	2	2	1	1	2	2	5	5	2	2	3	6	4	A	3.3	6.4
30-May-06	6	5	7	7	6	7	7	7	6	3	2	2	2	4	2	2	3	3	2	4	5	13	A	7	4.8	12.8
31-May-06	6	5	2	3	4	6	7	6	4	4	2	2	2	2	1	2	1	2	2	4	14	A	16	13	4.8	15.8
Hourly Avg	6.7	5.9	6.0	6.7	7.8	10.5	11.4	9.1	5.7	4.1	3.5	2.9	2.5	2.3	2.5	2.4	2.8	2.9	2.7	3.7	7.1	8.9	8.4	7.6		
Hourly Max	16.6	12.9	14.3	20.5	22.7	26.4	29.9	23.8	21.4	9.0	7.4	8.9	6.8	6.0	5.9	4.7	5.1	5.1	5.5	7.9	15.8	21.6	24.3	20.1		

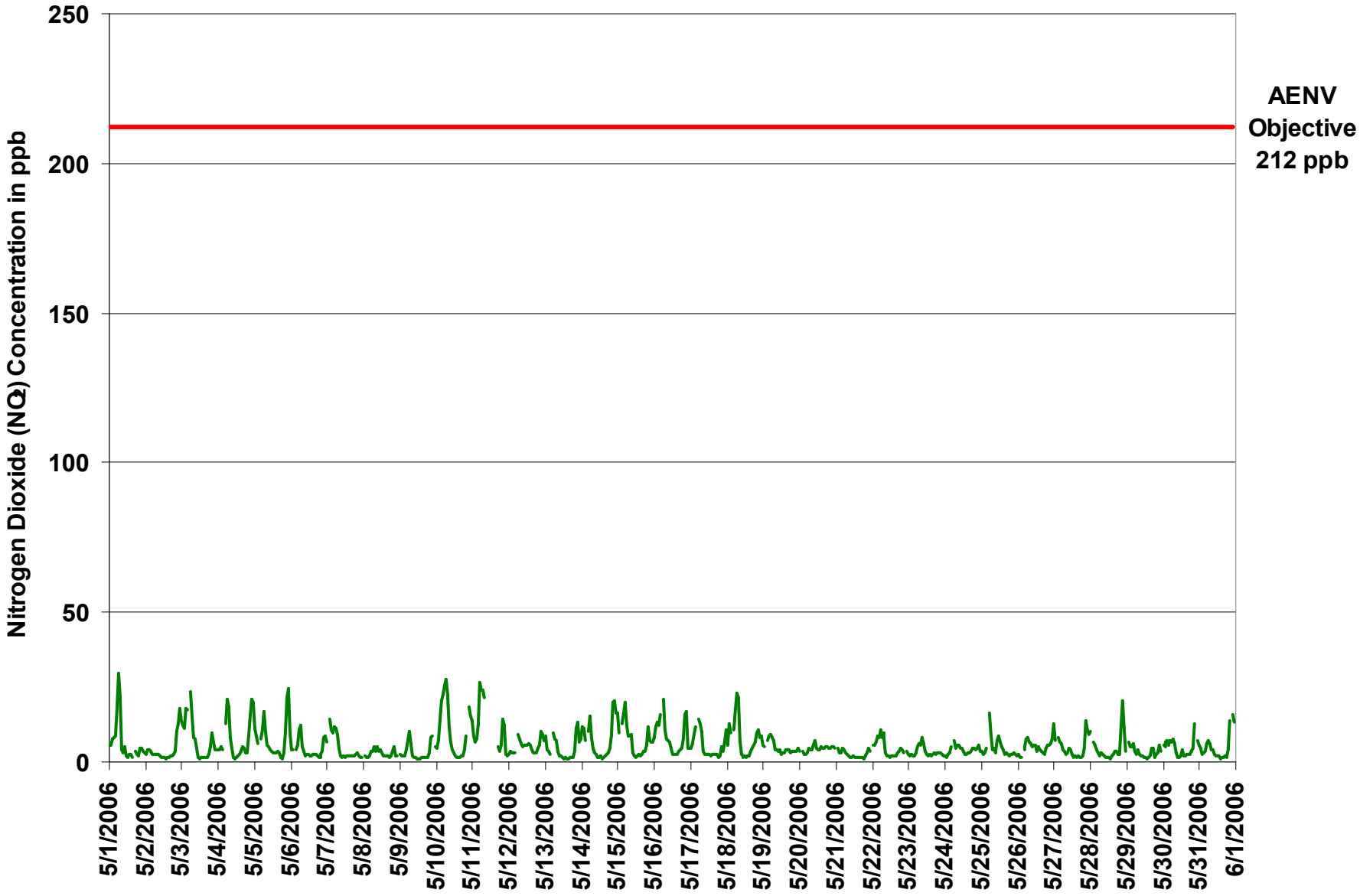


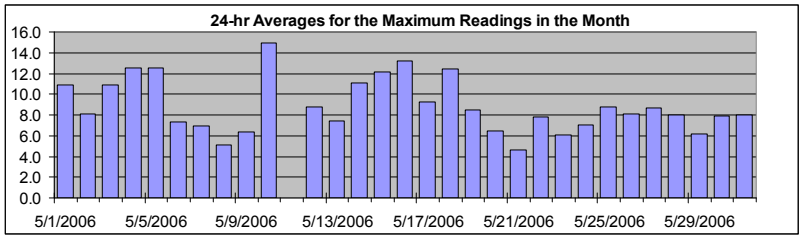
Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	36.2	ppb	1-May	6:00 7:00
Maximum 24-hr Value:	15.0	ppb	10-May	

AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	32.7	24.3	11.2	6.9	4.4	2.8	2.3	9.1 ppb	6.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	8	10	10	11	12	31	36	27	10	5	11	7	5	6	8	6	A	6	4	3	10	8	9	8	10.9	36.2
2-May-06	4	8	7	6	6	5	4	4	6	3	3	9	3	5	4	4	4	4	5	8	19	19	32	23	8.1	31.6
3-May-06	17	18	16	23	21	A	29	20	12	10	8	4	3	2	3	4	5	4	5	10	17	10	6	7	10.9	29.0
4-May-06	6	7	8	10	A	25	32	27	13	10	4	3	4	6	5	7	9	7	5	7	14	20	28	29	12.5	31.7
5-May-06	14	13	8	A	11	17	23	18	9	8	7	6	6	6	6	6	6	4	3	6	20	33	33	26	12.5	33.4
6-May-06	7	5	A	6	8	17	17	13	6	4	4	5	6	4	6	5	5	5	4	3	4	9	16	11	7.3	17.1
7-May-06	10	A	18	12	12	18	13	14	10	3	3	4	3	4	4	4	4	4	4	4	5	4	2	2	6.9	17.6
8-May-06	A	3	2	2	3	6	6	8	8	9	6	6	7	4	4	4	3	2	5	7	10	4	3	A	5.1	10.0
9-May-06	4	3	4	3	7	11	13	13	4	4	3	2	3	3	4	3	10	3	3	8	13	17	A	8	6.3	17.2
10-May-06	8	14	25	32	32	30	32	34	17	10	7	7	5	5	3	3	5	7	5	9	13	A	24	20	15.0	34.0
11-May-06	23	12	10	11	18	33	33	33	29	C	C	C	C	C	C	C	A	11	8	19	25	20	6	3	N	33.1
12-May-06	3	4	3	4	5	A	14	11	9	7	8	10	9	10	11	7	6	6	11	12	8	16	15	11	8.7	15.5
13-May-06	11	7	9	4	A	14	15	9	7	3	4	3	3	3	3	2	3	4	3	6	18	21	10	12	7.4	20.6
14-May-06	16	16	14	A	13	20	14	5	5	4	4	4	4	3	3	3	4	4	5	13	13	35	35	19	11.1	34.8
15-May-06	23	12	A	15	22	23	16	15	14	16	6	3	3	4	10	5	5	9	10	9	21	13	10	11	12.1	22.9
16-May-06	12	14	19	16	23	A	32	22	14	10	8	7	4	3	5	5	6	5	8	16	25	24	15	7	13.2	31.8
17-May-06	6	9	12	18	A	20	17	13	6	5	5	5	5	5	5	6	6	4	3	3	20	8	12	17	9.2	20.4
18-May-06	8	18	18	A	16	28	28	29	14	4	5	4	4	3	8	4	14	10	8	9	15	14	11	12	12.4	28.8
19-May-06	7	13	A	14	14	13	13	10	5	8	10	9	5	4	6	7	7	6	5	4	4	5	6	16	8.5	16.4
20-May-06	6	A	6	3	4	4	6	5	6	9	11	8	6	6	7	7	6	6	7	6	6	7	7	6	6.4	11.2
21-May-06	A	8	4	4	9	9	7	4	4	3	3	4	3	3	3	3	3	2	2	3	7	8	5	A	4.7	9.0
22-May-06	7	8	9	15	13	17	12	13	12	6	4	3	4	4	4	3	4	6	6	9	5	6	A	6	7.8	17.2
23-May-06	5	5	4	3	3	5	10	12	9	14	11	5	4	5	3	3	4	5	6	9	6	5	4	4	6.0	13.6
24-May-06	3	3	5	5	12	A	14	8	8	8	11	7	6	4	5	5	6	6	8	9	8	6	8	6	7.0	14.0
25-May-06	5	4	6	6	A	28	17	7	8	4	14	25	12	12	8	5	5	4	4	5	6	5	4	4	8.7	27.9
26-May-06	6	3	3	A	6	7	10	13	12	12	8	12	11	6	8	7	7	5	7	8	11	8	8	11	8.1	12.9
27-May-06	16	15	A	13	8	8	5	4	4	5	17	8	6	4	4	3	7	7	3	5	11	18	15	13	8.6	18.2
28-May-06	15	A	10	7	8	5	3	5	4	3	3	2	3	3	4	7	7	6	4	5	24	27	21	8	8.0	27.3
29-May-06	A	9	6	6	10	6	4	9	7	4	3	3	4	2	4	6	9	8	5	4	4	12	8	A	6.1	12.0
30-May-06	8	9	10	10	8	10	9	11	9	4	3	4	4	8	5	4	6	5	7	6	9	19	A	11	7.9	19.4
31-May-06	7	7	4	6	6	8	11	10	8	6	5	4	4	4	3	4	4	5	3	13	22	A	21	18	8.0	21.9
Hourly Avg	9.5	9.3	9.3	9.9	11.5	15.5	15.9	13.8	9.2	6.8	6.6	6.1	4.9	4.7	5.2	4.8	5.9	5.5	5.3	7.8	12.7	13.9	13.4	11.8		
Hourly Max	22.9	18.4	24.5	32.1	31.7	33.1	36.2	34.0	28.6	16.4	16.6	25.3	12.3	12.2	10.6	7.5	13.8	10.8	10.5	19.5	24.8	34.8	34.8	29.3		

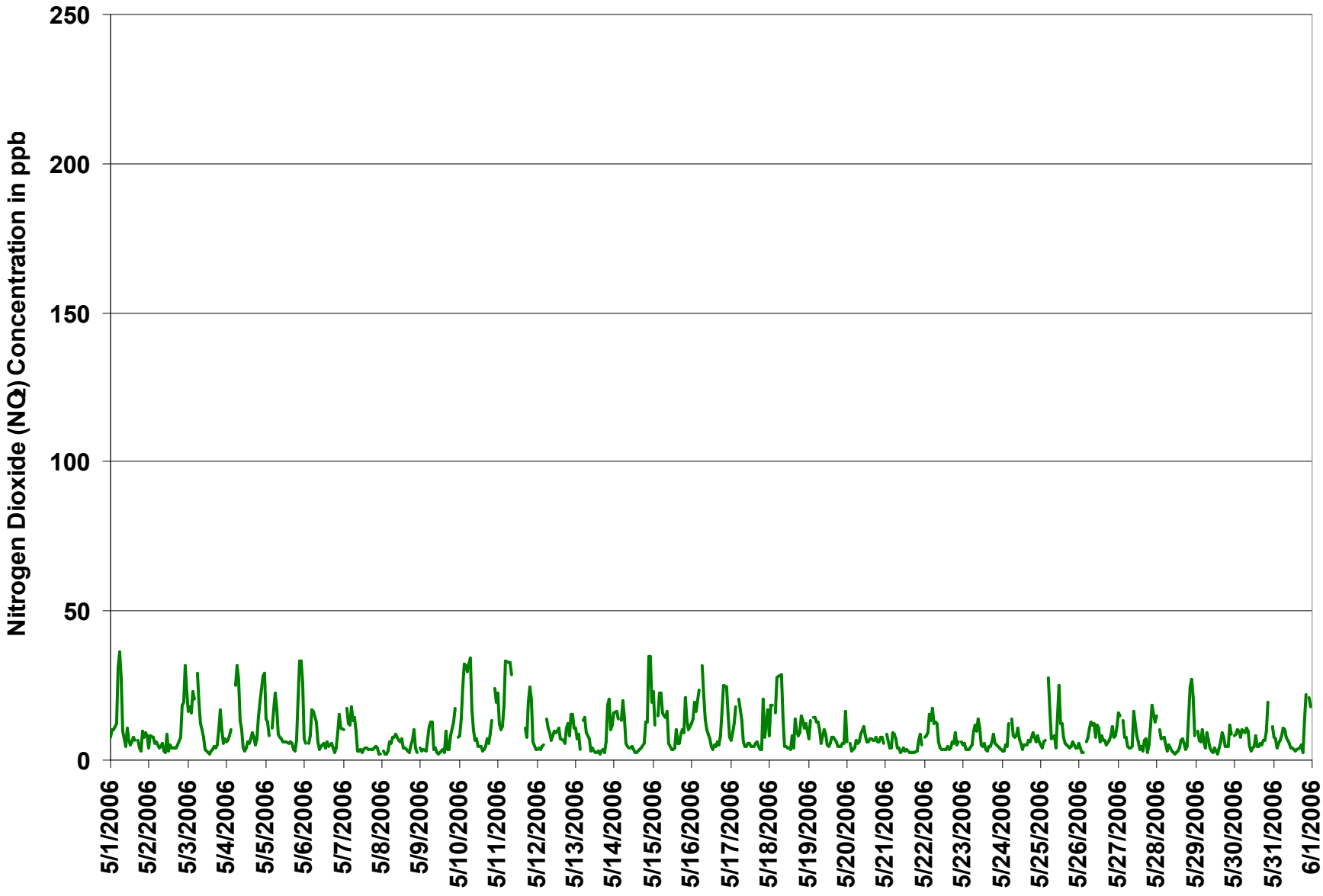
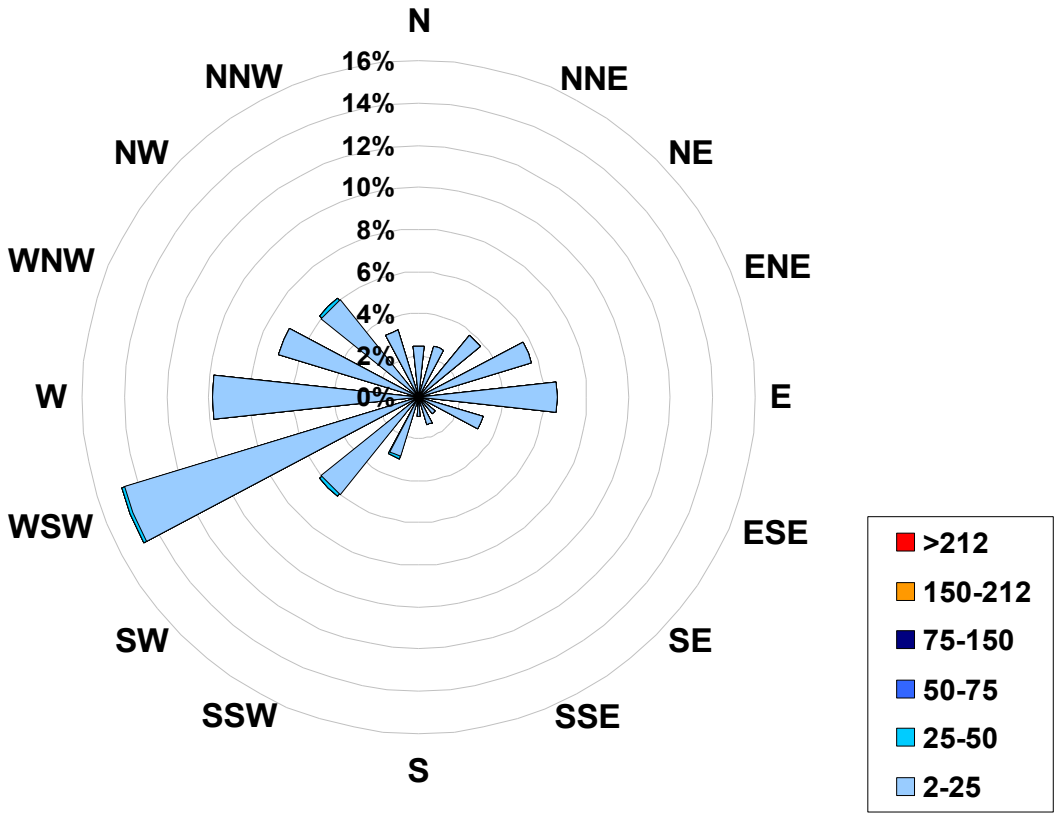


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	705
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			705

PASZA - Henry Pirker - Nitric Oxide Monthly Summary

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

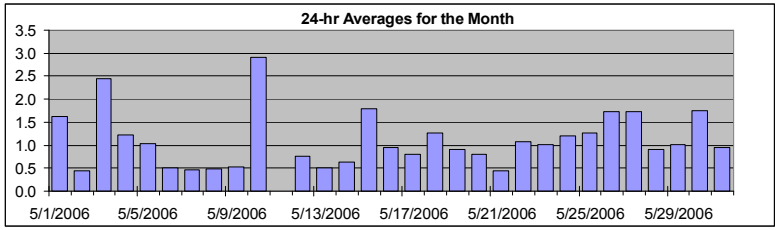
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Maximum 1-hr Average:	24.9	ppb	3-May	6:00 7:00
Maximum 24-hr Average:	2.9	ppb	10-May	



AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	11.0	3.5	1.1	0.6	0.3	0.0	0.0	1.1 ppb	0.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

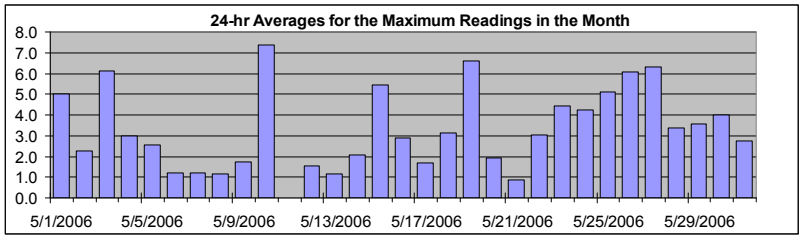
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	0	2	19	10	1	1	2	1	0	1	1	0	A	0	0	0	0	0	0	0	1.6	18.9
2-May-06	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0.4	0.8
3-May-06	0	1	1	3	3	A	25	10	5	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2.5	24.9
4-May-06	0	0	0	0	A	1	7	9	3	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	1.2	9.1
5-May-06	0	0	0	A	0	1	4	3	2	2	1	2	1	1	1	1	1	0	0	0	0	1	1	0	1.0	4.3
6-May-06	0	0	A	0	0	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.5	2.0
7-May-06	0	A	0	0	0	0	2	3	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0.5	3.2
8-May-06	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	0.5	1.2
9-May-06	0	0	0	0	0	1	3	2	1	1	1	0	0	0	1	0	1	0	0	0	0	0	A	0	0.5	2.9
10-May-06	0	0	0	0	1	14	19	17	5	3	2	1	1	0	0	0	0	0	0	0	0	A	0	0	2.9	18.8
11-May-06	0	0	0	0	0	5	9	14	13	C	C	C	C	C	C	C	A	1	0	0	1	0	0	0	N	14.4
12-May-06	0	0	0	0	0	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0.8	1.6
13-May-06	0	0	0	0	A	1	1	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.3
14-May-06	0	0	0	A	0	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	0.6	1.6
15-May-06	1	0	A	1	3	11	7	4	3	3	1	0	0	0	1	0	1	1	1	0	1	1	0	0	1.8	11.0
16-May-06	0	0	0	0	1	A	6	3	2	2	2	1	0	0	0	0	1	1	0	1	0	0	0	0	1.0	5.6
17-May-06	0	0	0	0	A	1	3	4	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.8	4.1
18-May-06	0	0	0	A	0	1	6	10	3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1.3	9.5
19-May-06	0	0	A	1	1	1	2	2	1	2	2	1	1	1	1	1	1	1	1	0	0	0	0	1	0.9	2.0
20-May-06	0	A	0	0	0	0	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0.8	1.7
21-May-06	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	0.4	0.7
22-May-06	0	0	0	0	0	3	3	4	4	1	1	1	0	1	1	1	1	1	1	1	0	1	A	0	1.1	4.4
23-May-06	0	1	0	1	1	1	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	0	0	1.0	2.1
24-May-06	0	0	0	0	1	A	2	1	3	3	2	2	2	1	1	1	1	1	1	2	1	1	0	0	1.2	3.2
25-May-06	0	0	0	0	A	2	2	1	1	1	2	2	2	3	2	1	2	1	1	1	1	0	0	0	1.3	2.6
26-May-06	0	0	0	A	0	0	1	3	3	2	2	5	3	3	4	2	2	1	1	1	2	1	1	1	1.7	5.0
27-May-06	2	2	A	1	3	5	5	5	2	1	2	2	2	1	1	0	1	1	0	0	0	2	1	1	1.7	5.3
28-May-06	1	A	1	1	1	1	1	2	2	1	1	1	0	0	1	1	0	1	1	0	1	3	0	0	0.9	3.0
29-May-06	A	0	0	0	1	1	1	4	2	1	1	1	1	1	1	1	2	2	1	1	1	0	0	A	1.0	4.1
30-May-06	0	0	0	0	1	5	7	7	6	2	1	1	1	2	1	1	1	1	1	1	0	1	A	0	1.7	7.3
31-May-06	0	0	0	0	0	1	3	4	2	2	1	1	1	1	1	1	1	1	0	1	1	A	0	0	1.0	3.5
Hourly Avg	0.3	0.3	0.2	0.3	0.7	2.3	4.7	4.3	2.4	1.5	1.3	1.1	0.9	0.8	0.9	0.7	0.8	0.7	0.5	0.5	0.5	0.5	0.3	0.3		
Hourly Max	2.3	2.2	0.6	2.5	3.2	14.3	24.9	17.3	12.9	4.1	2.5	5.0	2.8	2.6	3.5	2.3	2.1	1.6	1.3	1.6	1.7	3.0	1.2	0.8		

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	44.8	ppb	10-May	7:00 8:00
Maximum 24-hr Value:	7.4	ppb	10-May	

AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	32.3	12.4	3.6	1.8	0.9	0.3	0.0	3.5 ppb	1.8 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	0	13	41	21	2	1	6	6	2	6	7	3	A	2	0	0	1	0	0	0	5.0	41.2
2-May-06	0	0	0	0	0	0	0	1	1	1	1	11	2	4	3	1	1	1	2	2	3	4	7	3	2.2	11.4
3-May-06	2	4	6	8	32	A	44	15	8	6	4	1	1	0	1	1	1	1	1	1	1	1	0	0	6.1	43.6
4-May-06	0	0	0	1	A	3	18	15	6	4	1	1	2	2	2	2	2	1	1	1	1	0	4	1	3.0	17.9
5-May-06	0	0	0	A	0	3	8	6	3	3	3	4	2	2	2	2	2	1	1	1	1	6	4	1	2.6	8.4
6-May-06	0	0	A	0	0	2	3	3	2	1	2	2	2	1	2	1	1	1	1	1	0	0	0	0	1.2	3.5
7-May-06	0	A	1	0	0	2	3	7	3	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1.2	6.9
8-May-06	A	0	0	0	0	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	0	1	A	1.1	2.5
9-May-06	0	0	0	1	1	2	5	5	1	2	1	1	1	1	1	1	10	1	1	1	1	1	A	0	1.7	10.3
10-May-06	3	3	1	2	9	37	39	45	8	4	3	3	3	1	1	1	1	1	1	1	1	A	2	0	7.4	44.8
11-May-06	1	0	0	0	1	14	37	29	21	C	C	C	C	C	C	C	A	3	1	2	5	4	1	1	N	36.5
12-May-06	1	0	0	1	1	A	1	2	2	2	2	3	3	2	3	2	2	2	2	2	0	0	0	0	1.5	3.0
13-May-06	0	0	1	0	A	1	2	3	3	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0	1.1	3.1
14-May-06	1	1	0	A	1	2	3	2	2	1	1	1	1	1	1	1	1	1	1	2	0	14	6	2	2.1	14.1
15-May-06	1	1	A	1	17	19	12	12	6	7	3	1	1	2	6	2	2	5	6	2	6	5	2	6	5.5	19.4
16-May-06	2	0	3	1	5	A	17	8	4	4	3	2	1	1	1	3	2	1	1	2	3	1	0	0	2.9	16.9
17-May-06	0	0	1	2	A	3	5	7	2	2	2	2	2	2	1	2	2	1	1	0	0	0	0	0	1.7	6.8
18-May-06	1	0	0	A	1	4	14	17	6	1	1	1	2	1	4	3	5	1	2	1	2	1	0	0	3.1	17.2
19-May-06	2	12	A	7	8	7	5	3	2	32	36	5	2	2	1	3	6	2	1	1	1	1	1	14	6.6	36.1
20-May-06	5	A	1	1	1	1	1	2	2	2	3	4	3	2	2	2	2	2	2	1	1	2	2	1	1.9	4.8
21-May-06	A	0	0	0	0	1	1	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0.9	1.9
22-May-06	0	0	2	2	0	9	4	7	7	4	3	1	2	1	2	1	3	4	2	5	2	4	A	3	3.0	9.4
23-May-06	3	7	1	4	2	6	8	9	5	8	8	3	3	5	2	2	3	4	6	9	2	3	1	0	4.4	9.3
24-May-06	0	0	2	1	2	A	4	6	7	8	12	5	5	2	3	2	4	3	4	9	8	5	3	2	4.3	12.4
25-May-06	2	2	1	0	A	8	3	2	10	2	9	17	10	12	7	6	6	3	4	3	4	2	3	2	5.1	16.8
26-May-06	2	1	0	A	1	1	4	11	12	7	6	24	7	6	6	6	5	5	7	8	6	2	2	8	6.1	23.9
27-May-06	23	11	A	4	5	13	6	7	4	3	22	4	3	7	3	2	5	11	2	1	3	5	2	2	6.3	23.2
28-May-06	3	A	2	4	3	1	2	4	3	2	1	1	1	2	3	9	1	2	2	1	15	13	2	0	3.4	14.6
29-May-06	A	0	0	0	2	1	2	21	5	3	3	3	2	15	2	2	6	3	2	2	1	1	0	A	3.6	20.6
30-May-06	2	3	0	1	2	9	21	15	9	3	1	4	2	4	2	2	2	2	2	1	1	1	A	0	4.0	21.0
31-May-06	0	0	0	1	1	2	6	7	5	4	3	2	2	2	1	2	4	6	1	8	4	A	2	1	2.7	8.5
Hourly Avg	2.0	1.7	1.0	1.7	3.6	6.2	10.4	9.5	5.0	4.1	4.9	3.9	2.4	3.1	2.6	2.3	2.9	2.4	1.9	2.3	2.4	2.8	1.7	1.8		
Hourly Max	23.2	12.2	6.5	7.9	32.4	36.9	43.6	44.8	20.9	31.7	36.1	23.9	9.7	15.2	7.4	8.5	10.3	11.2	7.3	9.4	14.6	14.1	6.9	13.7		

PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

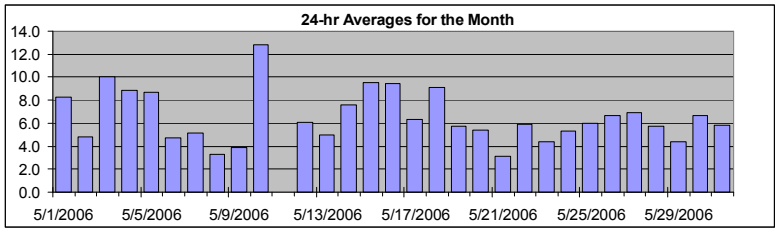
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Maximum 1-hr Average:	48.6	ppb	1-May	6:00 7:00
Maximum 24-hr Average:	12.8	ppb	10-May	



AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	33.4	18.4	8.4	4.6	3.0	1.9	1.4	6.7 ppb	4.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	6	6	8	8	9	20	49	32	5	4	7	3	2	4	3	2	A	4	3	2	5	5	3	3	8.3	48.6
2-May-06	3	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	3	2	3	4	11	13	19	19	4.8	18.6
3-May-06	14	13	12	20	20	A	48	25	13	11	7	2	1	2	2	2	2	2	3	5	10	7	4	4	10.0	48.4
4-May-06	4	4	5	4	A	14	28	28	11	6	2	2	2	3	3	4	6	5	4	3	9	15	21	20	8.9	27.9
5-May-06	11	9	6	A	8	12	21	13	8	6	6	5	4	4	4	5	4	2	2	3	10	22	25	10	8.7	25.4
6-May-06	4	4	A	4	5	11	14	7	4	3	3	4	3	3	4	3	3	3	2	2	2	4	8	9	4.7	14.0
7-May-06	6	A	14	11	10	12	13	12	6	2	2	2	2	3	3	3	2	2	2	3	3	2	1	1	5.2	14.4
8-May-06	A	2	1	1	2	4	4	6	4	6	5	5	4	2	3	3	2	2	2	4	5	2	2	A	3.3	6.2
9-May-06	2	2	2	2	4	8	13	8	3	2	2	2	1	1	2	2	2	2	2	3	9	9	A	5	3.9	13.0
10-May-06	5	8	14	21	24	40	46	40	17	10	6	5	2	2	2	2	2	3	2	4	9	A	18	16	12.8	46.4
11-May-06	14	9	7	8	12	32	34	38	34	C	C	C	C	C	C	C	A	6	4	6	15	13	3	2	N	38.1
12-May-06	3	4	3	3	3	A	10	9	8	6	7	7	7	8	7	5	4	4	4	5	6	10	9	7	6.1	10.3
13-May-06	9	4	4	3	A	10	9	9	5	2	3	2	1	2	1	1	2	2	2	4	11	13	7	8	5.0	13.4
14-May-06	12	12	7	A	11	17	10	6	4	3	2	2	3	1	1	2	2	3	3	5	9	21	21	17	7.6	21.1
15-May-06	17	10	A	13	20	31	19	13	12	12	4	3	2	2	4	3	3	5	4	6	13	8	7	7	9.5	30.9
16-May-06	9	12	14	13	16	A	27	14	10	10	9	5	3	3	3	3	4	5	5	9	16	18	5	5	9.5	26.8
17-May-06	5	7	9	12	A	16	16	15	5	3	3	3	3	3	3	3	4	3	2	2	6	4	7	11	6.3	16.0
18-May-06	6	13	10	A	11	18	30	31	10	3	2	2	3	2	3	3	5	5	6	7	10	11	9	9	9.1	31.2
19-May-06	6	6	A	8	10	10	10	9	5	6	5	5	3	4	4	5	5	5	4	4	4	4	4	5	5.7	10.2
20-May-06	4	A	4	3	3	4	5	5	5	7	9	7	6	6	7	6	6	6	6	5	5	6	6	5	5.4	8.9
21-May-06	A	5	3	3	5	4	4	4	3	2	2	3	2	3	2	2	2	2	2	2	3	5	4	A	3.1	5.0
22-May-06	6	6	7	9	9	13	11	14	12	4	3	3	2	3	3	3	3	4	4	5	4	4	A	4	5.9	14.0
23-May-06	3	3	3	2	3	4	7	8	7	10	8	5	4	3	4	3	4	4	4	4	4	4	3	2	4.4	9.9
24-May-06	2	2	3	4	6	A	9	6	9	9	7	7	6	4	4	4	5	4	6	6	5	5	6	4	5.3	9.0
25-May-06	4	3	3	5	A	18	11	5	6	4	10	11	9	8	7	4	5	4	3	3	3	4	3	3	6.0	18.4
26-May-06	3	2	2	A	4	6	9	12	9	8	8	11	8	6	9	6	6	5	4	6	7	7	7	9	6.7	11.6
27-May-06	15	9	A	9	9	12	9	8	5	5	7	6	4	2	3	2	3	3	2	3	5	16	12	10	6.9	15.7
28-May-06	11	A	7	6	5	4	3	5	5	3	3	2	2	2	2	4	4	5	3	3	13	23	12	4	5.7	23.4
29-May-06	A	7	5	5	7	4	4	8	4	4	4	3	2	2	2	3	6	6	2	3	4	6	4	A	4.4	8.2
30-May-06	6	6	7	8	7	12	14	15	12	5	3	3	3	6	3	3	4	4	3	5	6	14	A	8	6.7	14.7
31-May-06	6	5	3	4	4	7	10	10	7	6	4	3	3	3	2	2	2	3	2	5	15	A	16	12	5.9	16.4
Hourly Avg	7.0	6.3	6.2	7.1	8.5	12.8	16.1	13.4	8.2	5.6	4.8	4.1	3.4	3.2	3.4	3.2	3.6	3.6	3.3	4.3	7.7	9.5	8.8	7.8		
Hourly Max	17.1	13.2	14.4	20.7	23.9	39.7	48.6	39.6	34.2	12.3	10.0	11.4	9.3	7.6	8.7	6.3	6.4	6.2	6.3	8.6	16.5	23.4	25.4	20.1		

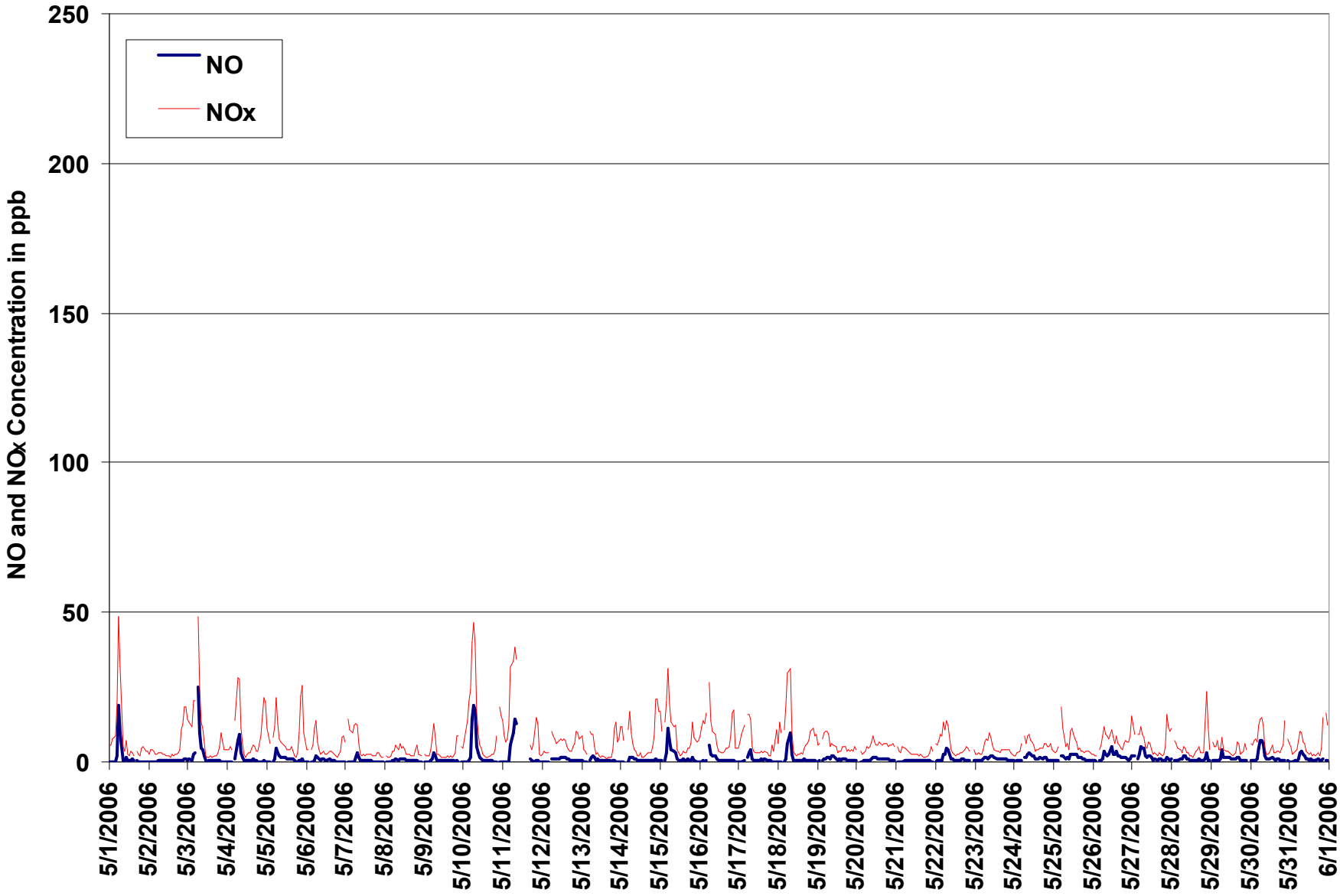


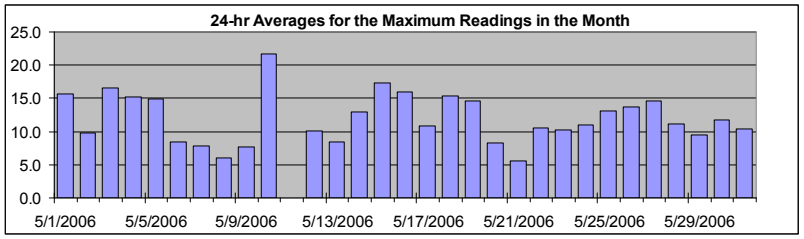
Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	78.0	ppb	10-May	7:00 8:00
Maximum 24-hr Value:	21.6	ppb	10-May	

AIC Time:	32 hrs	Operational Time:	705 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	49.3	32.4	15.0	8.8	5.9	3.6	2.9	12.3 ppb	8.8 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	8	10	10	12	12	43	77	47	12	6	16	13	7	10	14	10	A	8	4	4	10	8	10	9	15.6	77.2
2-May-06	4	8	8	6	6	6	5	6	7	4	4	18	5	5	7	5	5	5	7	9	21	24	38	25	9.8	37.9
3-May-06	17	21	22	31	49	A	71	35	20	16	11	5	3	3	4	4	6	5	6	11	17	10	6	7	16.5	70.6
4-May-06	6	7	8	11	A	28	49	42	19	15	5	4	6	8	8	9	10	8	6	8	15	19	29	30	15.2	48.8
5-May-06	13	13	8	A	11	20	31	23	12	11	10	10	8	8	8	9	7	5	4	8	21	39	36	26	14.8	38.6
6-May-06	7	5	A	5	8	19	18	16	8	5	6	7	7	5	8	6	7	6	5	3	4	9	16	10	8.4	18.9
7-May-06	10	A	17	12	11	19	15	21	13	4	4	5	4	5	5	5	5	4	4	4	5	5	2	3	7.8	20.9
8-May-06	A	3	2	2	4	7	7	9	10	11	8	8	9	6	6	5	4	3	6	8	11	4	3	A	6.1	10.9
9-May-06	4	3	4	4	8	13	18	18	5	6	4	3	4	4	5	4	16	4	4	9	13	18	A	8	7.7	18.2
10-May-06	11	16	25	33	35	63	71	78	24	14	10	10	8	6	4	4	6	8	6	9	13	A	24	19	21.6	78.0
11-May-06	23	12	10	11	19	47	69	62	49	C	C	C	C	C	C	C	A	13	8	21	25	21	6	3	N	68.6
12-May-06	4	4	4	5	5	A	15	12	11	8	10	13	12	12	13	9	9	7	12	15	8	16	16	11	10.1	16.0
13-May-06	11	7	10	4	A	14	17	12	10	4	5	4	3	3	4	3	4	4	3	6	19	21	10	12	8.4	20.8
14-May-06	16	16	14	A	14	22	17	7	6	5	5	6	5	3	4	4	5	5	6	15	13	49	36	21	12.9	49.0
15-May-06	24	12	A	16	38	42	28	27	20	24	9	5	5	6	16	8	7	11	16	10	26	19	12	17	17.3	41.6
16-May-06	13	14	22	18	29	A	46	30	19	15	11	8	5	4	7	8	8	6	9	18	27	26	16	7	15.9	45.5
17-May-06	6	10	13	19	A	22	22	20	8	7	6	8	7	7	6	7	8	6	4	4	21	8	12	17	10.8	22.2
18-May-06	9	19	19	A	16	32	43	43	20	6	6	5	6	4	12	7	19	11	10	10	16	14	11	13	15.3	43.3
19-May-06	9	25	A	21	22	19	18	14	7	36	41	12	7	6	7	10	13	8	5	5	5	6	6	30	14.5	41.4
20-May-06	11	A	6	3	4	5	7	7	7	12	14	12	8	8	9	9	9	8	9	7	7	9	10	7	8.3	14.2
21-May-06	A	9	4	4	9	9	8	6	6	4	4	5	4	4	4	4	4	3	3	3	7	8	5	A	5.5	9.5
22-May-06	7	8	11	16	13	27	17	20	20	10	6	5	5	5	6	5	7	10	7	14	6	10	A	7	10.6	26.7
23-May-06	8	13	5	8	6	11	17	20	12	21	19	8	7	10	5	5	7	9	12	19	7	8	5	4	10.2	21.2
24-May-06	3	3	7	5	15	A	18	14	13	16	24	12	11	5	7	8	10	8	12	19	14	11	11	7	11.0	23.5
25-May-06	7	5	7	7	A	35	20	9	12	6	22	42	20	24	12	10	12	8	7	7	9	8	7	5	13.1	42.3
26-May-06	8	3	3	A	6	8	13	21	24	19	14	35	17	11	14	13	11	8	14	17	17	9	9	19	13.6	34.8
27-May-06	36	25	A	17	12	21	10	11	8	7	39	11	9	10	7	5	12	17	5	7	14	22	17	14	14.6	39.0
28-May-06	18	A	12	11	11	6	4	9	7	5	4	3	3	5	8	15	8	7	5	5	35	41	22	8	11.1	40.8
29-May-06	A	10	7	6	12	7	6	29	12	7	6	5	6	15	6	8	14	11	7	6	5	13	9	A	9.5	28.5
30-May-06	10	12	11	10	9	18	28	26	18	8	4	6	7	12	6	7	8	8	10	8	10	21	A	12	11.7	28.2
31-May-06	8	7	4	7	7	10	17	17	12	10	9	6	6	6	4	5	7	9	3	22	23	A	22	17	10.5	23.2
Hourly Avg	11.2	10.8	10.2	11.3	14.6	21.3	25.9	22.9	13.9	10.7	11.2	9.8	7.2	7.5	7.7	7.0	8.5	7.6	7.1	10.0	14.3	16.4	14.5	13.2		
Hourly Max	35.8	25.4	25.4	32.5	48.6	62.8	77.2	78.0	49.3	35.5	41.4	42.3	20.2	24.3	15.7	15.0	18.8	17.4	16.2	21.7	34.7	49.0	37.9	30.2		

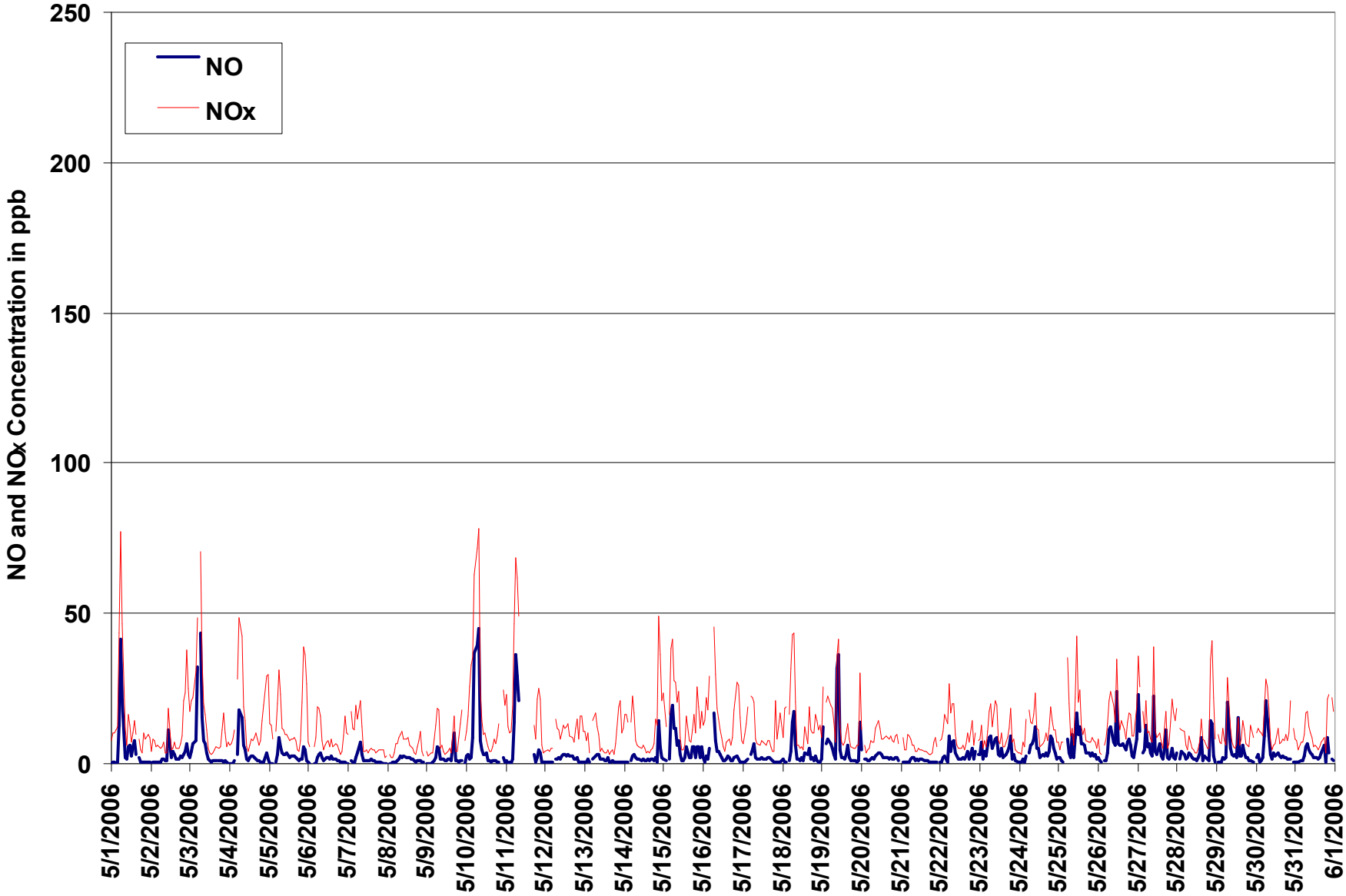


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker - Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O_3)

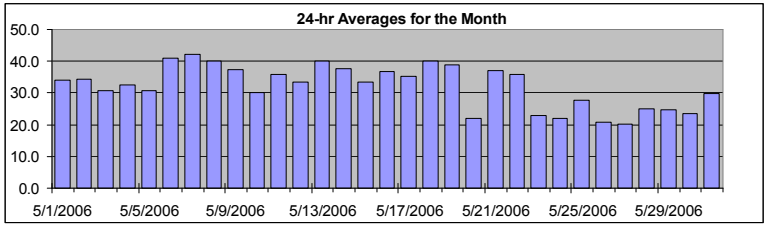
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	59.2	ppb	15-May	16:00 17:00
Maximum 24-hr Average:	42.2	ppb	7-May	



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
	55.3	50.6	41.6	33.1	23.0	10.8	4.3	32.1 ppb	33.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	26	25	20	20	19	10	3	9	38	41	42	49	49	49	49	50	A	48	48	45	38	35	34	35	34.0	49.6
2-May-06	30	32	31	33	34	35	34	34	35	36	37	38	39	40	41	43	44	44	44	41	30	26	15	8	34.5	44.1
3-May-06	10	10	9	4	4	A	7	15	23	28	38	45	46	48	48	49	48	47	45	42	33	34	36	34	30.6	48.9
4-May-06	31	31	30	31	A	26	18	20	33	39	43	43	41	40	40	40	40	40	41	40	32	22	15	16	32.7	42.7
5-May-06	22	26	26	A	26	27	20	30	34	35	36	36	37	36	37	37	39	40	42	39	30	14	10	28	30.7	42.0
6-May-06	36	36	A	39	36	28	27	36	39	42	44	46	48	47	44	43	42	46	50	49	46	43	37	35	40.9	50.4
7-May-06	36	A	31	30	32	26	22	28	39	44	44	46	51	53	53	53	52	51	51	48	44	44	45	47	42.2	53.4
8-May-06	A	45	44	42	39	37	38	35	37	35	37	36	39	44	44	44	46	46	45	42	36	35	34	A	40.0	45.9
9-May-06	34	32	31	31	28	25	22	30	37	39	41	43	45	46	46	48	49	49	48	43	30	27	A	32	37.2	48.7
10-May-06	29	24	19	11	5	2	6	15	24	28	35	40	46	48	49	49	48	47	46	43	37	A	22	23	30.2	49.0
11-May-06	24	27	28	24	18	5	8	11	20	40	44	46	47	50	51	52	52	50	52	48	38	36	46	44	35.8	51.9
12-May-06	39	33	34	35	36	A	24	29	30	31	32	32	35	36	34	35	34	35	38	37	36	28	30	32	33.3	38.7
13-May-06	30	35	32	36	A	30	32	32	38	43	45	46	48	49	51	51	50	50	49	45	36	32	35	31	40.2	50.7
14-May-06	23	22	27	A	22	16	26	31	36	40	43	46	48	53	54	55	56	57	56	52	45	28	20	14	37.7	56.5
15-May-06	10	12	A	8	5	4	11	23	31	40	C	C	C	C	A	58	59	59	58	55	42	43	44	41	33.5	59.2
16-May-06	34	19	15	18	11	A	23	35	38	39	42	48	50	52	51	51	49	49	51	45	32	27	34	32	36.8	51.7
17-May-06	30	27	20	14	A	19	19	22	34	42	44	43	40	41	42	44	43	44	43	44	41	44	40	34	35.3	44.3
18-May-06	36	26	29	A	26	21	14	19	39	52	53	54	54	54	53	53	51	50	49	46	39	35	35	33	40.0	53.7
19-May-06	36	35	A	31	26	27	31	32	37	39	41	43	45	46	48	45	41	40	43	48	44	39	38	37	38.7	47.7
20-May-06	36	A	34	32	30	27	25	25	24	23	21	22	24	22	22	23	19	18	18	16	15	12	11	10	22.1	35.5
21-May-06	A	26	26	26	29	34	34	31	38	41	43	43	43	43	42	41	43	43	41	42	39	34	34	A	37.2	43.5
22-May-06	31	29	25	20	16	12	19	22	29	39	42	44	45	47	46	44	46	49	49	47	45	40	A	35	35.7	49.1
23-May-06	33	30	23	22	23	23	23	21	21	18	19	23	23	24	24	26	25	24	21	20	20	21	22	22	23.0	33.3
24-May-06	23	24	18	14	11	A	12	14	16	18	21	24	27	31	31	30	29	29	25	23	22	22	19	21	21.9	30.7
25-May-06	25	24	23	19	A	13	18	26	27	30	30	31	33	36	36	33	30	32	30	29	29	26	25	30	27.6	36.5
26-May-06	30	29	28	A	27	26	23	20	22	22	21	16	19	21	18	21	23	22	20	18	15	14	14	11	20.8	29.8
27-May-06	2	5	A	4	2	3	5	8	18	23	24	26	31	34	35	34	32	34	34	32	28	16	17	17	20.2	34.7
28-May-06	15	A	17	18	17	16	15	16	19	22	26	30	33	36	38	38	37	36	38	36	22	8	19	25	25.1	38.0
29-May-06	A	20	25	22	16	18	15	15	17	18	20	23	28	32	36	36	31	31	35	30	28	26	26	A	24.8	35.7
30-May-06	20	17	12	10	9	5	5	8	14	22	29	31	35	35	37	38	37	39	37	31	27	17	A	23	23.5	38.6
31-May-06	22	23	26	24	23	21	20	21	24	28	33	35	38	37	37	37	39	39	41	40	28	A	23	25	29.8	40.9
Hourly Avg	26.9	25.8	25.4	22.9	21.2	19.9	19.3	23.0	29.5	33.5	35.6	37.6	39.6	41.0	41.3	41.9	41.1	41.5	41.5	39.2	33.1	28.5	27.8	27.7		
Hourly Max	38.7	45.0	44.1	41.9	38.7	37.1	37.8	36.3	39.4	52.2	52.9	53.6	53.6	53.7	54.4	57.8	59.2	58.8	58.4	54.8	45.9	44.1	46.1	47.1		

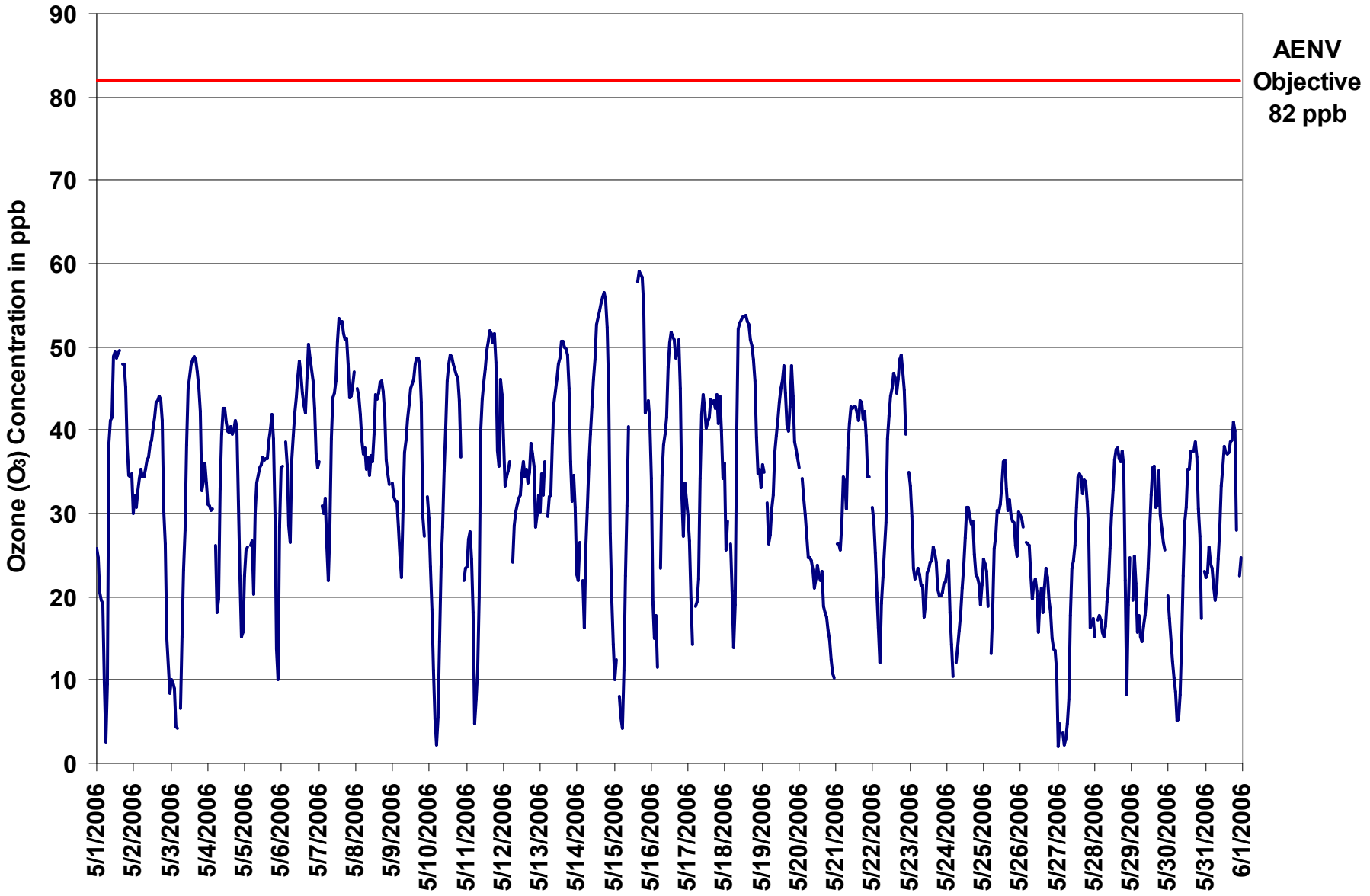


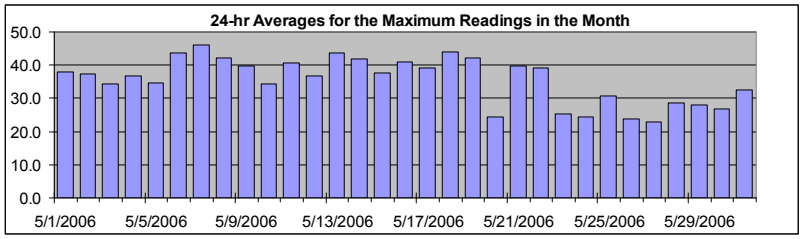
Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	61.2	ppb	15-May	16:00 17:00
Maximum 24-hr Value:	46.1	ppb	7-May	

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
	58.1	52.8	44.6	36.3	26.6	15.7	7.3	35.5 ppb	36.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	29	28	24	24	22	19	7	31	41	43	45	51	51	51	52	51	A	50	50	48	43	37	37	38	37.9	52.0
2-May-06	34	36	34	35	36	37	36	36	38	38	38	39	41	44	43	45	46	45	45	44	39	30	22	17	37.5	45.5
3-May-06	14	16	15	10	8	A	16	21	26	32	44	47	48	49	50	50	50	48	48	46	38	37	38	38	34.4	50.5
4-May-06	33	32	33	33	A	33	27	28	39	43	44	44	43	42	42	43	42	42	44	43	38	28	28	22	36.8	44.2
5-May-06	25	28	28	A	28	32	27	34	36	37	37	38	39	38	39	39	41	42	44	43	36	24	23	35	34.5	43.9
6-May-06	37	39	A	40	40	36	30	40	41	45	46	50	50	49	46	45	44	49	52	51	50	45	43	39	43.7	52.2
7-May-06	41	A	34	35	36	33	31	36	44	45	48	50	59	58	54	54	54	53	53	51	47	46	47	48	46.1	59.1
8-May-06	A	47	45	44	40	38	40	38	40	38	39	39	43	47	46	46	48	48	47	45	41	36	35	A	42.2	48.1
9-May-06	35	33	33	32	30	27	25	37	40	41	42	45	47	47	48	50	51	50	50	48	36	31	A	35	39.7	51.0
10-May-06	34	29	27	22	10	5	8	28	27	32	38	46	48	50	50	50	50	49	49	47	40	A	27	28	34.4	50.3
11-May-06	32	32	33	27	23	12	18	14	35	46	47	48	50	51	52	54	54	54	54	54	47	44	48	46	40.6	54.3
12-May-06	42	37	36	37	38	A	27	31	35	33	35	35	38	43	40	39	35	38	42	41	39	35	35	35	36.7	43.0
13-May-06	34	36	37	38	A	37	36	34	43	45	46	48	50	51	52	52	51	52	51	49	45	38	39	36	43.5	52.2
14-May-06	30	27	32	A	27	21	29	34	39	42	45	48	52	55	56	56	58	58	58	56	50	39	27	23	41.8	58.2
15-May-06	16	15	A	12	12	12	15	29	33	46	C	C	C	C	A	60	61	61	61	59	51	45	46	45	37.7	61.2
16-May-06	41	26	20	23	17	A	30	39	43	44	46	52	52	53	54	53	52	51	53	51	40	31	37	36	41.0	53.8
17-May-06	32	32	27	18	A	23	22	29	40	44	46	46	43	42	44	46	45	46	45	47	45	48	45	44	39.2	47.7
18-May-06	43	31	36	A	29	26	20	27	51	54	55	56	56	55	55	55	55	52	52	50	44	36	38	37	44.1	56.1
19-May-06	37	37	A	34	30	30	33	37	40	42	44	46	48	50	50	50	43	42	51	54	48	41	41	39	42.1	53.5
20-May-06	37	A	36	34	32	29	27	27	26	26	25	24	26	25	26	26	22	21	20	18	17	14	12	13	24.4	37.0
21-May-06	A	31	31	28	32	38	37	34	41	43	44	45	44	45	44	43	45	45	44	44	44	36	36	A	39.8	45.3
22-May-06	34	33	29	25	19	18	28	27	39	42	45	45	47	49	49	46	49	50	50	50	47	43	A	36	39.1	50.3
23-May-06	34	33	28	23	24	25	25	24	23	20	24	24	25	26	26	28	27	26	25	22	22	24	24	26	25.3	34.3
24-May-06	24	27	23	17	13	A	16	18	18	20	23	26	30	33	33	32	31	31	29	25	24	23	21	23	24.4	32.8
25-May-06	27	26	26	21	A	18	22	32	32	33	34	36	37	39	39	36	33	33	31	31	32	28	27	33	30.7	39.4
26-May-06	33	31	31	A	28	28	27	24	24	26	25	18	23	24	21	24	27	24	22	22	17	16	16	15	23.7	32.9
27-May-06	4	9	A	5	4	5	6	12	23	26	26	31	34	36	36	37	35	36	35	34	31	22	20	21	23.0	36.6
28-May-06	20	A	19	20	20	17	16	19	21	24	28	33	35	38	39	41	42	39	40	40	31	17	29	29	28.7	42.4
29-May-06	A	27	27	24	20	21	17	16	18	19	23	26	33	34	39	39	34	35	37	35	31	31	29	A	28.1	39.5
30-May-06	23	21	15	13	10	8	7	13	21	28	32	34	38	38	40	39	40	41	40	34	30	23	A	26	26.7	41.2
31-May-06	24	25	28	27	25	24	23	23	26	32	36	37	41	40	39	39	40	41	42	44	39	A	26	29	32.6	43.7
Hourly Avg	30.3	29.5	29.2	26.0	24.2	24.0	23.5	28.2	33.7	36.4	38.3	40.3	42.3	43.4	43.5	44.2	43.5	43.6	44.1	42.7	38.1	32.8	32.0	31.9		
Hourly Max	42.6	46.6	45.4	43.7	40.3	38.3	40.3	40.4	51.1	54.1	55.1	55.7	59.1	58.2	56.1	59.6	61.2	61.2	60.9	58.9	50.7	47.7	48.4	48.0		

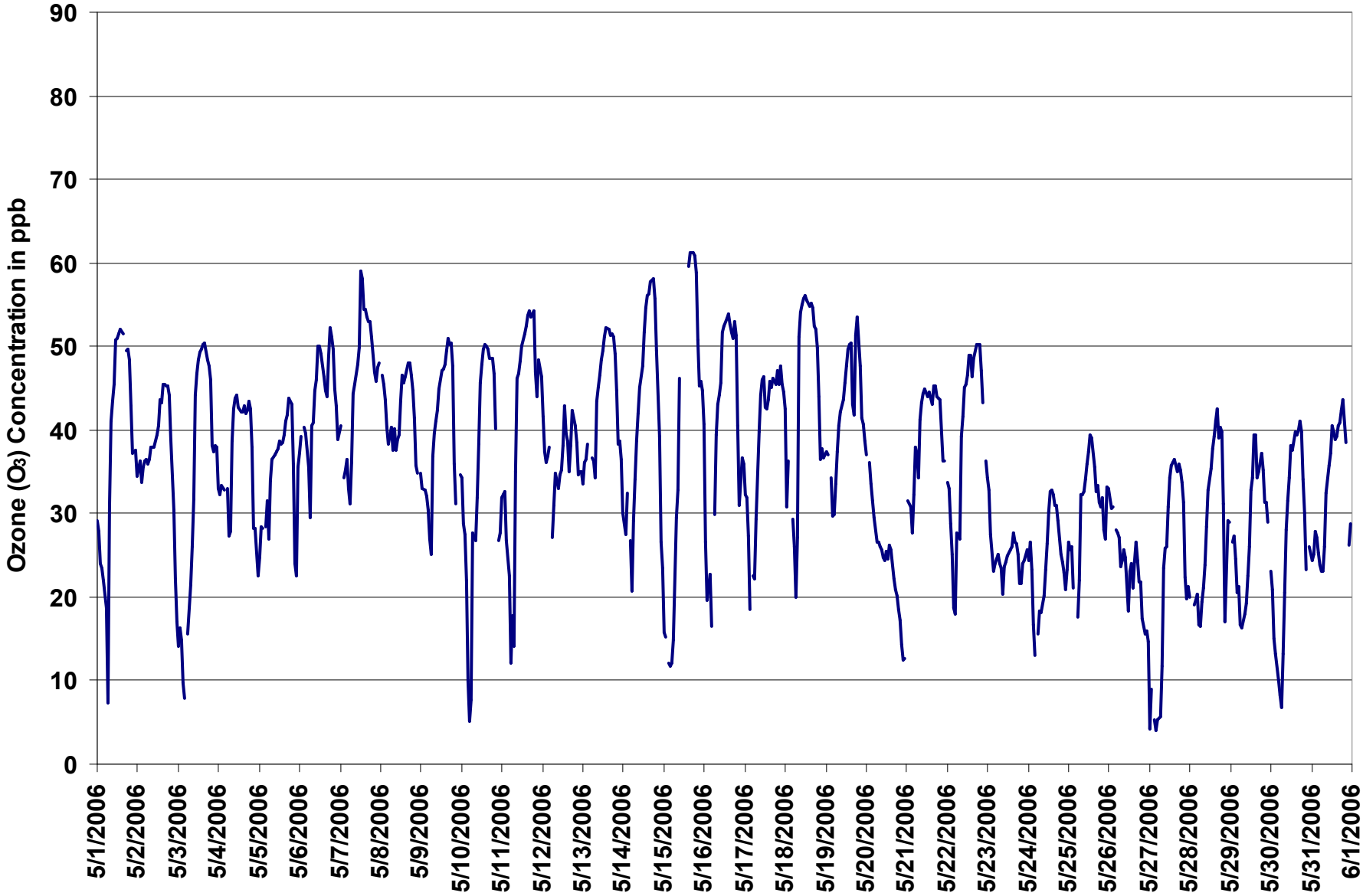
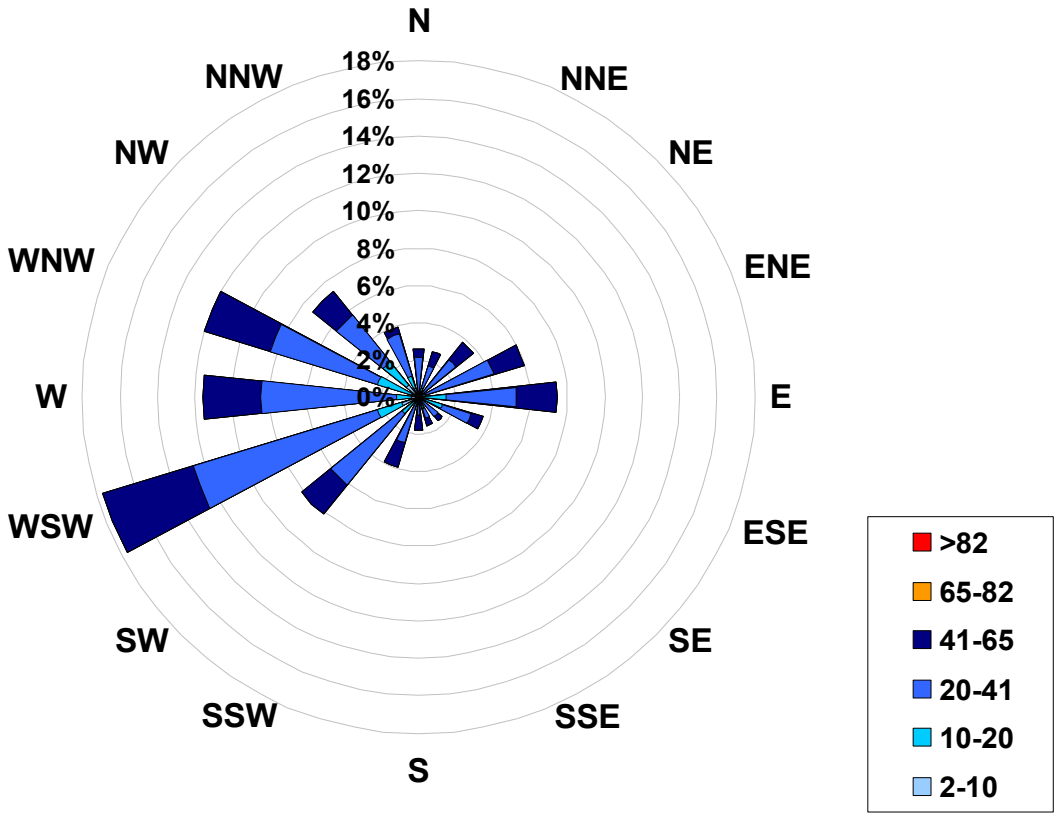


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	29
10	to	20	94
20	to	41	395
41	to	65	190
65	to	82	0
	>	82	0
Total Non-Zero Values			708

PASZA - Henry Pirker - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

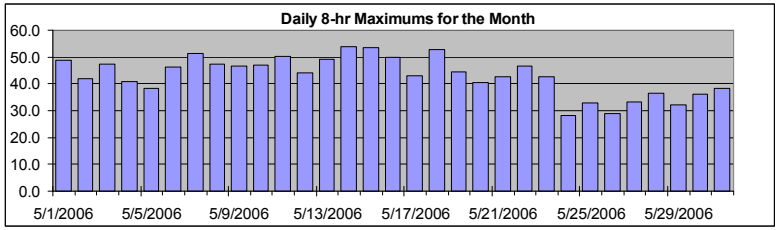
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	53.9	ppb	14-May	19:00 20:00



Percentile	99	95	75	50	25	5	1
	51.9	47.7	40.0	32.3	23.7	15.3	8.8

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	41	39	35	32	28	24	20	16	18	20	23	26	30	35	41	46	47	48	49	48	47	45	43	40	48.8
2-May-06	39	37	35	33	33	33	33	33	34	34	35	36	36	37	38	39	40	41	42	42	41	39	36	32	42.0
3-May-06	27	23	19	14	11	9	7	8	10	13	17	23	29	31	37	41	44	46	47	47	45	43	42	40	47.2
4-May-06	38	36	34	32	32	31	29	27	27	28	30	32	33	35	37	40	41	41	41	40	39	37	34	31	40.7
5-May-06	29	27	25	23	22	23	23	25	27	28	30	30	32	33	35	36	36	37	38	38	37	35	31	30	38.3
6-May-06	30	29	27	27	28	30	33	34	34	35	36	37	39	41	43	44	45	45	46	46	46	45	45	44	46.2
7-May-06	43	42	40	37	35	33	30	29	30	31	33	35	37	41	45	48	49	50	51	51	51	49	48	48	51.4
8-May-06	47	46	45	44	44	43	42	40	40	38	37	37	37	38	38	40	41	42	43	44	43	42	41	40	47.2
9-May-06	39	37	35	33	32	31	29	29	30	31	32	33	35	38	41	43	45	46	47	47	45	42	42	40	46.6
10-May-06	37	33	29	25	21	17	16	14	13	14	16	19	24	30	36	40	43	45	47	47	46	46	42	38	47.0
11-May-06	35	32	29	26	24	21	20	18	18	19	21	24	28	33	38	44	48	49	50	50	49	47	47	46	50.2
12-May-06	44	42	40	38	38	38	35	33	32	31	31	31	30	31	32	33	34	34	35	36	36	35	34	34	44.1
13-May-06	33	33	33	32	32	32	32	32	34	35	37	38	39	42	44	46	48	49	49	49	48	45	43	41	49.1
14-May-06	37	34	31	29	27	25	24	24	26	28	30	32	36	40	44	47	49	52	53	54	53	50	46	41	53.9
15-May-06	35	30	26	20	14	11	9	11	14	18	18	N	N	N	N	N	N	N	N	N	N	53	52	50	53.4
16-May-06	47	42	37	32	28	26	23	22	23	26	30	34	39	41	44	46	48	49	50	50	47	44	42	40	50.0
17-May-06	37	35	31	27	26	25	23	22	22	24	28	32	33	36	38	41	42	43	42	42	43	43	43	42	43.0
18-May-06	41	38	37	36	34	30	27	24	25	29	32	35	38	42	47	51	53	53	52	51	49	47	45	42	52.8
19-May-06	40	38	37	35	33	32	31	31	31	32	33	35	37	39	42	43	43	44	44	44	44	43	42	41	44.3
20-May-06	40	40	39	37	35	33	31	30	28	28	26	25	24	23	23	23	22	21	21	20	19	18	16	15	40.4
21-May-06	14	15	17	18	20	23	26	29	30	32	34	36	38	39	40	42	42	43	42	42	42	41	40	40	42.7
22-May-06	38	36	34	30	27	24	22	22	22	23	25	28	32	36	39	42	44	45	46	47	47	46	46	44	46.7
23-May-06	42	40	36	33	29	27	27	25	23	22	21	21	21	22	22	22	23	24	24	24	23	23	22	22	42.5
24-May-06	22	22	21	20	19	19	18	17	16	15	15	16	19	20	23	25	26	28	28	28	27	26	25	24	28.1
25-May-06	23	23	22	22	22	21	20	21	21	22	23	25	26	29	31	32	33	33	33	32	32	31	29	29	32.7
26-May-06	29	29	28	28	28	28	28	26	25	24	23	22	21	20	20	20	20	20	20	20	20	19	18	17	28.8
27-May-06	14	12	11	9	7	6	4	4	6	9	11	14	17	21	25	28	30	31	33	33	33	31	28	26	33.3
28-May-06	24	23	20	18	17	17	17	16	17	18	19	20	22	25	27	30	32	34	36	36	35	31	29	28	36.4
29-May-06	26	24	22	20	19	20	20	18	18	18	17	18	19	21	24	26	28	30	31	32	32	32	30	30	32.3
30-May-06	28	26	23	20	17	14	11	11	10	11	13	15	19	23	27	30	33	35	36	36	35	33	32	30	36.1
31-May-06	28	26	24	23	23	23	23	23	23	23	24	26	28	30	32	34	36	37	38	38	37	37	35	33	38.5
Hourly Max	47.2	46.4	45.4	44.5	43.8	42.8	41.7	40.0	39.6	38.3	37.4	38.0	39.3	42.3	47.2	51.4	52.8	52.6	53.1	53.9	53.4	53.4	52.2	50.1	

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

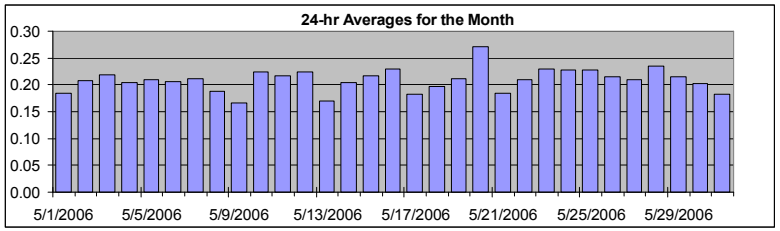
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	0.5	ppm	28-May	21:00 22:00
Maximum 24-hr Value:	0.3	ppm	20-May	



AIC Time:	32 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	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	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.35
2-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	C	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.21	0.31
3-May-06	0.2	0.2	0.2	0.2	0.2	A	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	0.22	0.40
4-May-06	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.20	0.34
5-May-06	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.21	0.49
6-May-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.21	0.25
7-May-06	0.3	A	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28
8-May-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.22
9-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.17	0.22
10-May-06	0.2	0.2	0.2	0.2	0.3	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	A	0.3	0.2	0.22	0.43
11-May-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.22	0.35
12-May-06	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.22	0.26
13-May-06	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	0.2	0.17	0.25
14-May-06	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	0.4	0.3	0.3	0.20	0.38
15-May-06	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.22	0.28
16-May-06	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.23	0.36
17-May-06	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.23
18-May-06	0.2	0.2	0.2	A	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.29
19-May-06	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.21	0.27
20-May-06	0.2	A	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.33
21-May-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.21
22-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.21	0.25
23-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.26
24-May-06	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.23	0.26
25-May-06	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.27
26-May-06	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.21	0.28
27-May-06	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.21	0.36
28-May-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.2	0.23	0.54
29-May-06	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	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.21	0.25
30-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.20	0.31
31-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.2	0.18	0.31
Hourly Avg	0.20	0.19	0.19	0.19	0.19	0.22	0.25	0.24	0.21	0.20	0.20	0.20	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.24	0.26	0.24	0.22		
Hourly Max	0.30	0.24	0.28	0.26	0.29	0.43	0.40	0.35	0.34	0.25	0.26	0.28	0.27	0.27	0.31	0.33	0.29	0.30	0.29	0.27	0.36	0.54	0.34	0.33		

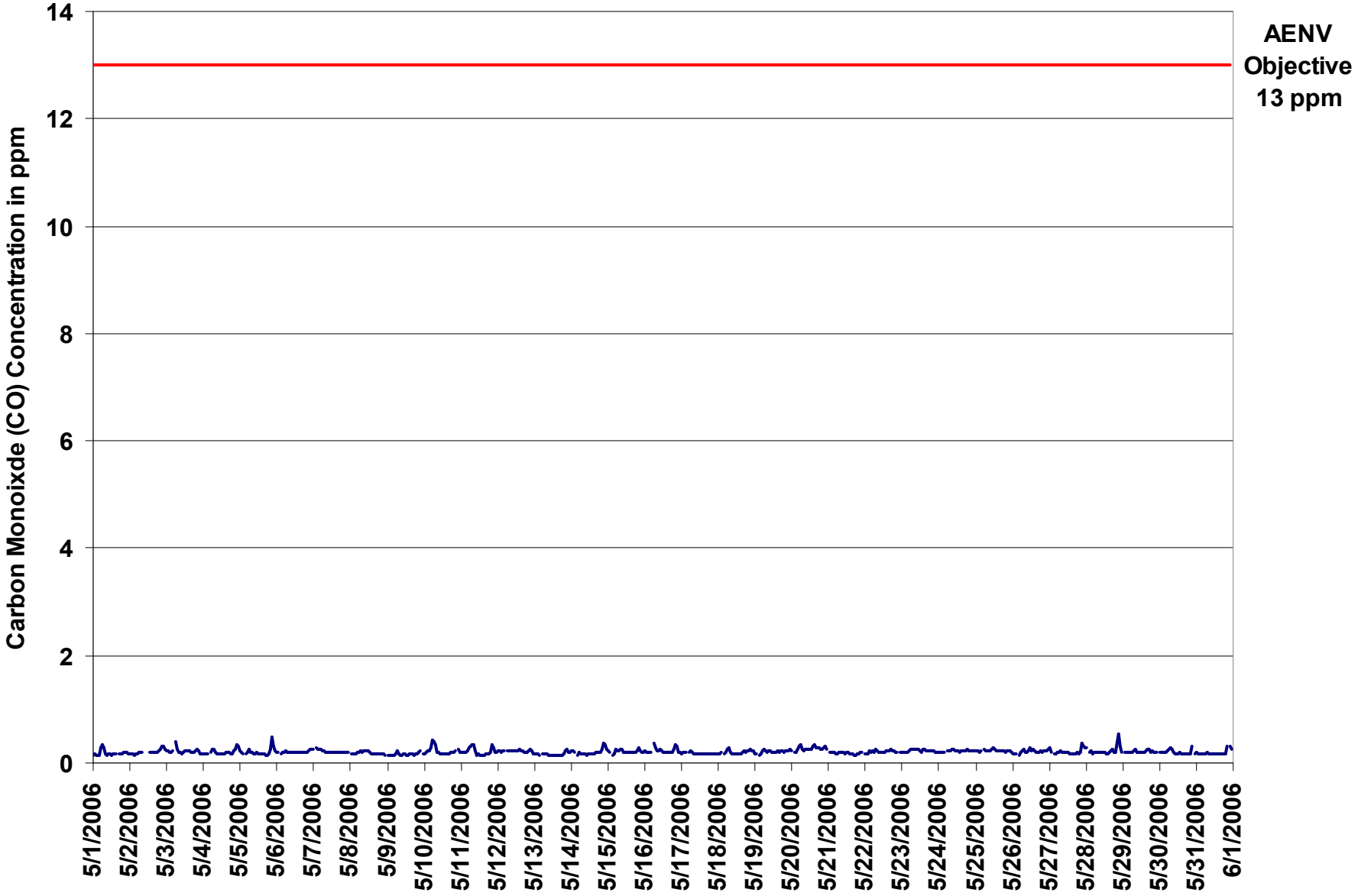


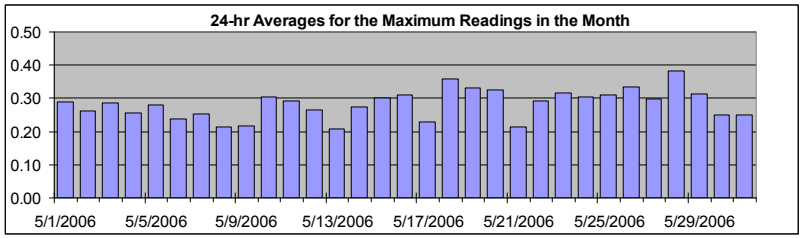
Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	1.7	ppm	28-May	20:00 21:00
Maximum 24-hr Value:	0.4	ppm	28-May	

AIC Time:	32 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.8	0.5	0.3	0.3	0.2	0.2	0.2	0.3 ppm	0.3 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0.2	0.3	0.2	0.2	0.2	0.9	0.5	0.4	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.3	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.29	0.86
2-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	C	C	C	A	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.26	0.45
3-May-06	0.3	0.4	0.2	0.3	0.4	A	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.29	0.55
4-May-06	0.2	0.2	0.2	0.3	A	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.26	0.46
5-May-06	0.3	0.2	0.2	A	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.9	0.5	0.4	0.28	0.91
6-May-06	0.2	0.2	A	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.24	0.30
7-May-06	0.4	A	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.39
8-May-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	A	0.22	0.27
9-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.3	A	0.2	0.22	0.44
10-May-06	0.2	0.5	0.3	0.3	0.4	0.7	0.5	0.5	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	A	0.4	0.3	0.30	0.71
11-May-06	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.5	0.4	0.2	0.3	0.29	0.54
12-May-06	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.26	0.32
13-May-06	0.2	0.2	0.3	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.21	0.40
14-May-06	0.3	0.3	0.3	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.7	0.7	0.3	0.28	0.66
15-May-06	0.4	0.3	A	0.2	0.3	0.5	0.3	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.30	0.45
16-May-06	0.3	0.3	0.3	0.2	0.2	A	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.6	0.4	0.3	0.2	0.31	0.60
17-May-06	0.2	0.3	0.2	0.4	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	0.2	0.23	0.38
18-May-06	0.2	0.2	0.2	A	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.7	1.2	0.3	0.3	0.3	0.3	0.4	0.3	0.36	1.65
19-May-06	0.2	0.2	A	0.2	0.2	0.4	0.7	0.3	0.3	0.7	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33	0.80
20-May-06	0.3	A	0.3	0.2	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.33	0.41
21-May-06	A	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	A	0.21	0.26
22-May-06	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.5	0.3	0.3	0.2	0.2	A	0.2	0.29	0.53
23-May-06	0.4	0.3	0.3	0.2	0.3	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.2	0.2	0.32	0.55
24-May-06	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.4	0.3	0.2	0.2	0.6	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.30	0.58
25-May-06	0.2	0.2	0.2	0.2	A	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.2	0.31	0.67
26-May-06	0.2	0.2	0.2	A	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.8	0.3	0.7	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.33	0.78
27-May-06	0.4	0.4	A	0.2	0.2	0.4	0.3	0.3	0.2	0.2	0.5	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.4	0.2	0.3	0.6	0.4	0.4	0.30	0.56
28-May-06	0.6	A	0.3	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	1.7	1.1	0.4	0.2	0.38	1.68
29-May-06	A	0.3	0.2	0.2	0.2	0.2	0.3	0.3	1.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	A	0.31	1.22
30-May-06	0.2	0.3	0.3	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	0.2	0.2	0.2	0.2	0.2	0.5	A	0.2	0.25	0.47
31-May-06	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	A	0.5	0.4	0.25	0.48
Hourly Avg	0.26	0.24	0.23	0.24	0.24	0.32	0.33	0.32	0.30	0.26	0.26	0.26	0.25	0.25	0.27	0.26	0.30	0.29	0.27	0.26	0.36	0.38	0.33	0.28		
Hourly Max	0.56	0.45	0.35	0.38	0.42	0.86	0.69	0.55	1.22	0.67	0.80	0.78	0.58	0.70	0.53	0.41	1.65	1.25	0.44	0.43	1.68	1.10	0.67	0.46		

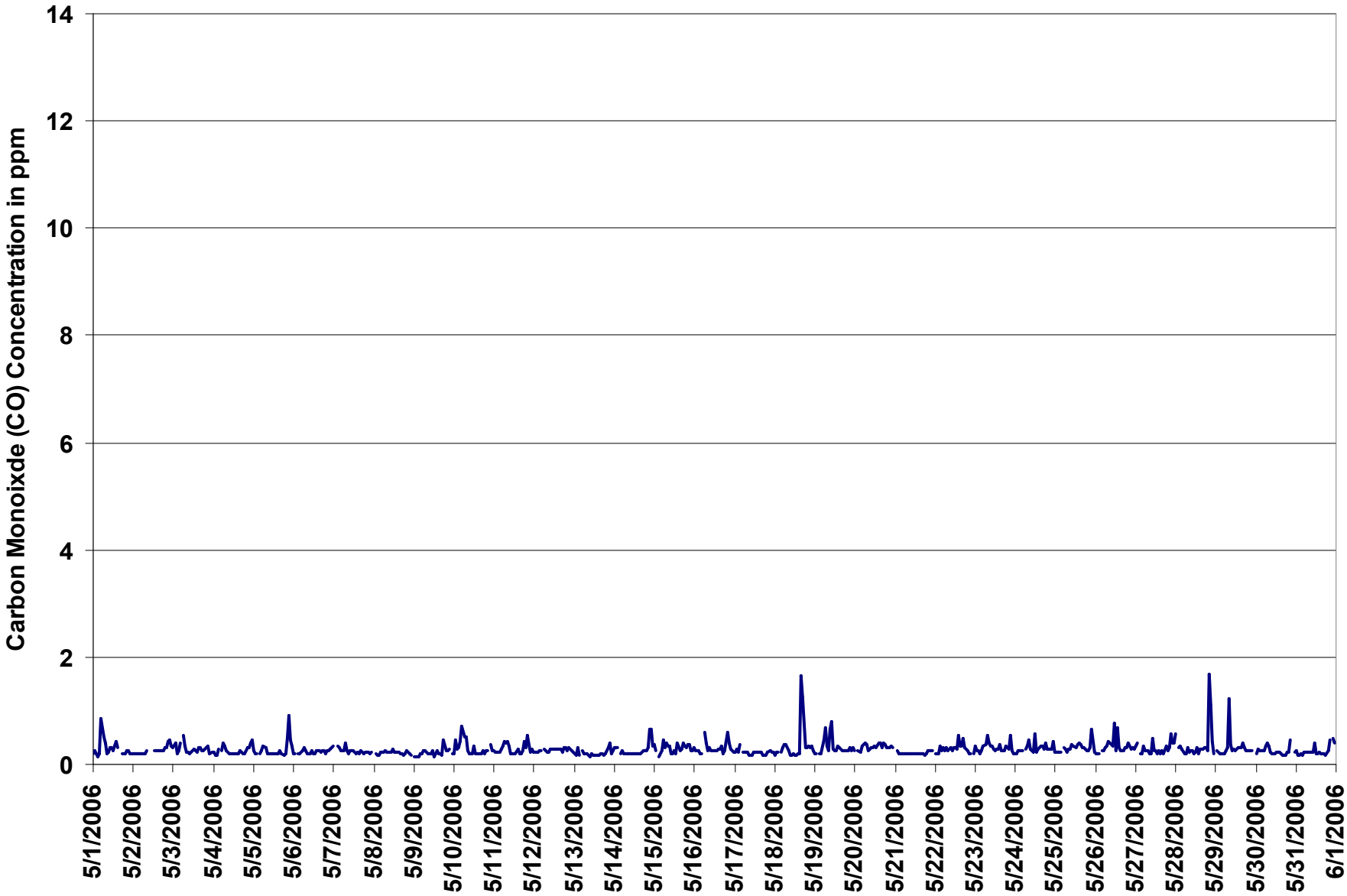
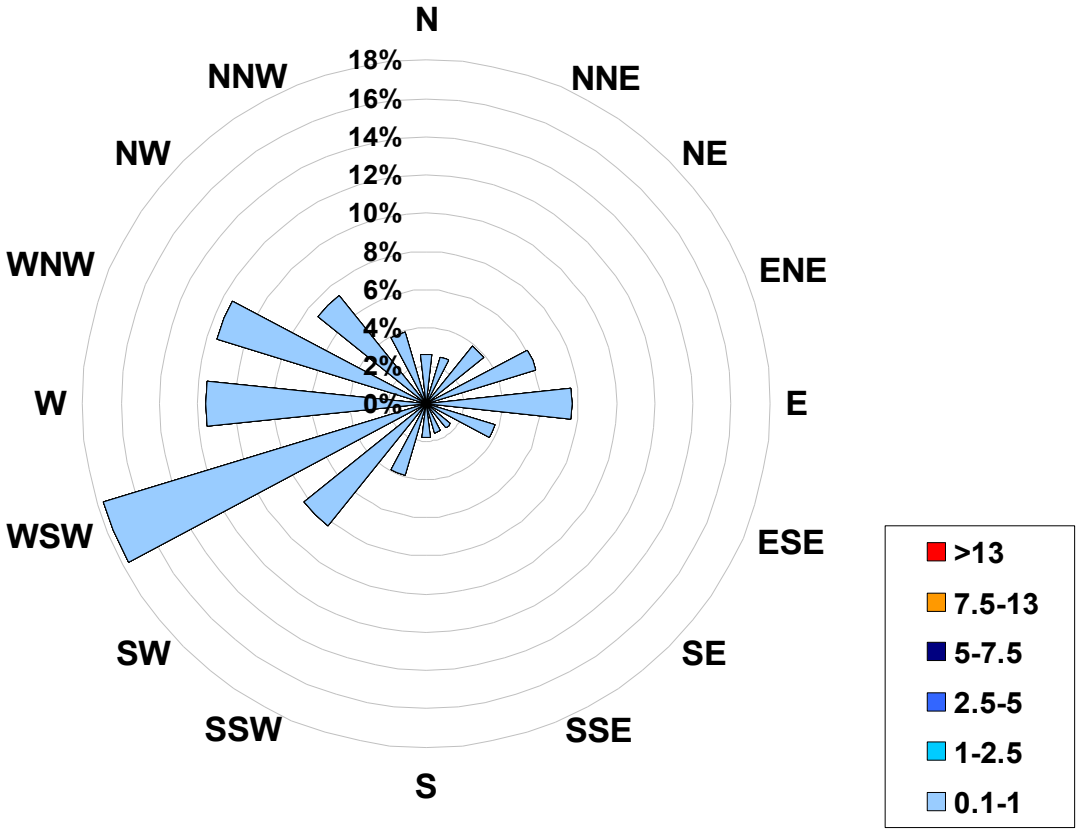


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

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

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

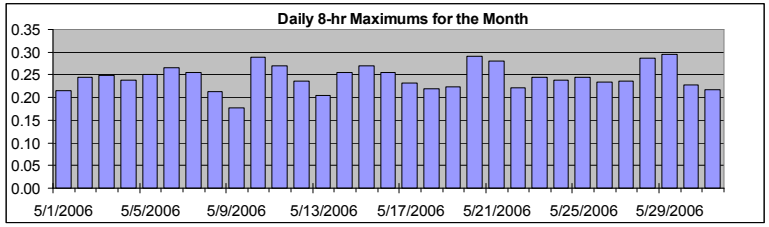
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.3	ppm	29-May	0:00 1:00



Percentile	99	95	75	50	25	5	1
	0.3	0.3	0.2	0.2	0.2	0.2	0.2

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
2-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.25
3-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
4-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
5-May-06	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
6-May-06	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
7-May-06	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
8-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
9-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
10-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
11-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
12-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
13-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
14-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.26
15-May-06	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
16-May-06	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
17-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
18-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
19-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
20-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.29
21-May-06	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
22-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
23-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
24-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
25-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
26-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
27-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
28-May-06	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.29
29-May-06	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
30-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
31-May-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
Hourly Max	0.30	0.29	0.29	0.29	0.27	0.26	0.26	0.28	0.29	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	

PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

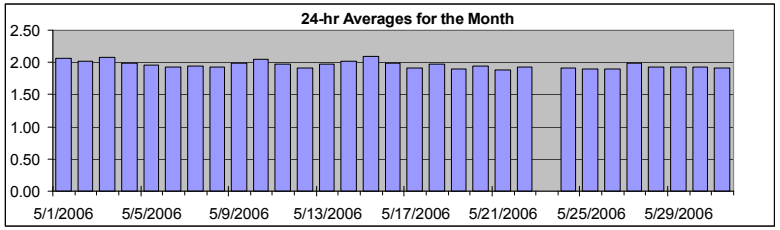
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Maximum 1-hr Average:	2.5	ppm	15-May	6:00 7:00
Maximum 24-hr Value:	2.1	ppm	15-May	



AIC Time:	32 hrs	Operational Time:	706 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	2.2	2.0	1.9	1.9	1.8	1.8	2.0 ppm	1.9 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.26
2-May-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.02	2.15
3-May-06	2.1	2.1	2.2	2.3	2.3	A	2.4	2.2	2.1	2.3	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.08	2.35
4-May-06	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	1.99	2.25
5-May-06	2.2	2.2	2.0	A	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.96	2.22
6-May-06	1.9	2.0	A	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.93	2.01
7-May-06	2.1	A	2.1	2.1	2.0	2.1	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.94	2.16
8-May-06	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	1.93	1.96
9-May-06	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	1.9	1.9	2.0	2.0	2.0	A	2.1	1.98	2.05
10-May-06	2.0	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.05	2.28
11-May-06	2.0	2.0	2.0	2.1	2.2	2.3	2.3	2.2	2.1	2.0	1.8	1.9	1.8	1.9	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.98	2.33
12-May-06	1.9	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.92	1.97
13-May-06	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	1.97	2.07
14-May-06	2.2	2.1	2.1	A	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.02	2.20
15-May-06	2.1	2.1	A	2.2	2.4	2.4	2.5	2.4	2.3	2.1	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.09	2.53
16-May-06	2.1	2.1	2.1	2.1	2.1	A	2.1	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.9	1.9	2.0	2.0	1.9	1.9	1.99	2.14
17-May-06	1.9	2.0	2.1	2.1	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	1.91	2.12
18-May-06	2.0	2.1	2.1	A	2.1	2.0	2.1	2.1	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.97	2.12
19-May-06	1.9	1.9	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	2.0	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.90	2.03
20-May-06	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.95	1.99
21-May-06	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	A	1.89	2.02
22-May-06	1.9	1.9	2.0	2.0	2.1	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	A	1.9	1.93	2.18
23-May-06	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	C	C	C	C	C	C	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	N	1.94
24-May-06	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	2.02
25-May-06	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90	1.95
26-May-06	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.89	1.96
27-May-06	2.1	2.0	A	2.1	2.2	2.3	2.4	2.3	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.99	2.40
28-May-06	2.0	A	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.1	1.9	1.93	2.22
29-May-06	A	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.92	1.98
30-May-06	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	1.93	2.04
31-May-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	A	1.9	1.9	1.92	2.01
Hourly Avg	2.00	2.01	2.00	2.02	2.05	2.05	2.06	2.04	1.99	1.97	1.95	1.93	1.91	1.91	1.90	1.90	1.90	1.89	1.89	1.90	1.93	1.96	1.97	1.98		
Hourly Max	2.20	2.22	2.20	2.27	2.35	2.39	2.53	2.43	2.29	2.31	2.14	2.03	2.02	2.02	1.99	2.03	2.00	2.01	2.00	2.01	2.03	2.22	2.15	2.25		

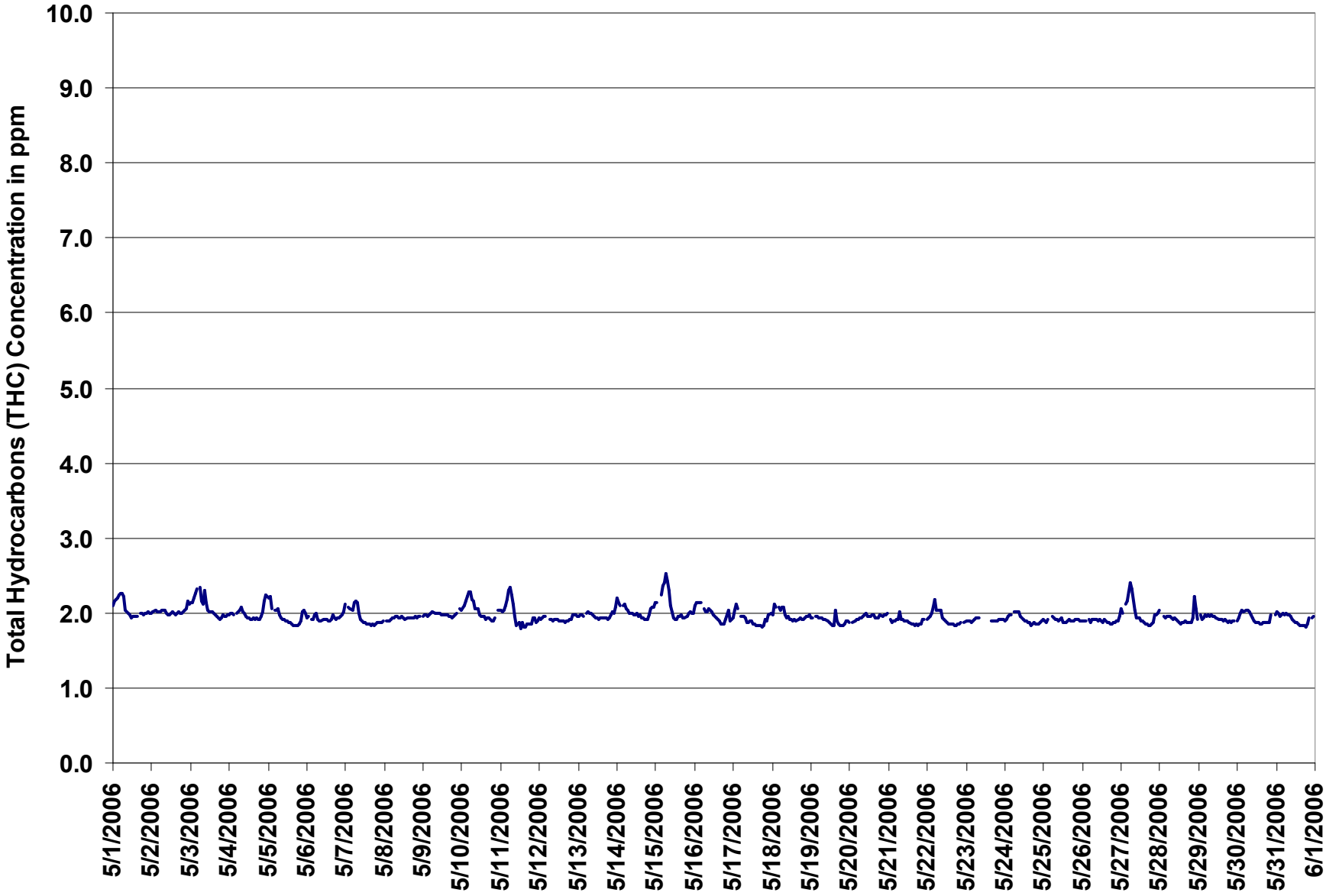


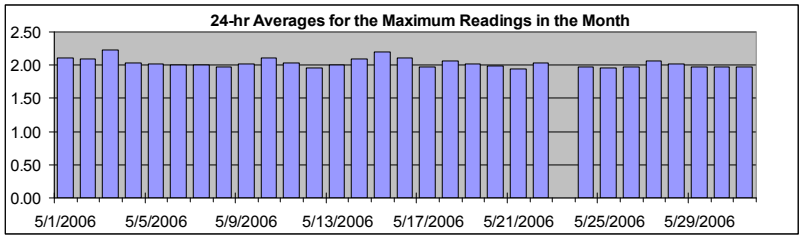
Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	3.5	ppm	19-May	15:00 16:00
Maximum 24-hr Value:	2.2	ppm	3-May	

AIC Time:	32 hrs	Operational Time:	706 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.3	2.1	2.0	1.9	1.9	1.9	2.0 ppm	2.0 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.11	2.34
2-May-06	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.4	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.4	2.2	2.09	2.41
3-May-06	2.3	2.2	2.3	2.4	2.5	A	2.6	2.2	2.2	3.2	3.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.22	3.23
4-May-06	2.0	2.0	2.0	2.1	A	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	2.0	2.1	2.3	2.4	2.04	2.36
5-May-06	2.3	2.4	2.2	A	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.2	2.1	2.03	2.37
6-May-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.2	2.0	1.9	1.9	1.9	1.9	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.00	2.31
7-May-06	2.2	A	2.1	2.1	2.1	2.6	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.01	2.59
8-May-06	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.97	1.99
9-May-06	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.1	2.02	2.11
10-May-06	2.2	2.2	2.3	2.4	2.4	2.4	2.2	2.3	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	A	2.1	2.1	2.11	2.40
11-May-06	2.2	2.0	2.1	2.1	2.3	2.4	2.4	2.4	2.2	2.0	1.9	1.9	1.9	2.1	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.04	2.37
12-May-06	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.96	2.02
13-May-06	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.00	2.12
14-May-06	2.4	2.3	2.2	A	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.2	2.09	2.39
15-May-06	2.3	2.2	A	2.3	2.5	2.4	2.6	2.6	2.4	2.3	2.1	2.0	1.9	2.0	2.1	2.0	2.3	2.1	2.0	2.3	2.2	2.1	2.0	2.0	2.20	2.60
16-May-06	2.2	2.3	2.3	2.2	2.3	A	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.4	2.1	2.3	2.2	2.2	2.10	2.35
17-May-06	2.1	2.1	2.3	2.3	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	1.9	2.0	2.1	1.98	2.28
18-May-06	2.1	2.3	2.2	A	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.6	2.3	1.9	1.9	2.0	2.0	2.1	2.0	2.07	2.59
19-May-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.2	3.5	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.03	3.46
20-May-06	1.9	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.99	2.12
21-May-06	A	2.0	1.9	1.9	1.9	1.9	2.0	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	1.94	2.40
22-May-06	1.9	2.0	2.1	2.3	2.2	2.6	2.1	2.1	2.2	2.0	1.9	2.0	1.9	1.9	2.0	1.9	2.2	1.9	1.9	1.9	1.9	1.9	A	1.9	2.03	2.56
23-May-06	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	C	C	C	C	C	C	A	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	N	2.01
24-May-06	1.9	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.97	2.10
25-May-06	2.0	1.9	1.9	2.0	A	2.1	2.1	1.9	1.9	1.9	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.96	2.14
26-May-06	1.9	1.9	1.9	A	1.9	1.9	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.0	1.97	2.10
27-May-06	2.2	2.2	A	2.2	2.2	2.3	2.4	2.4	2.1	1.9	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.1	2.06	2.44
28-May-06	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.4	2.5	2.3	2.0	2.02	2.55
29-May-06	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.97	2.23
30-May-06	1.9	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.0	1.98	2.11
31-May-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.0	1.97	2.06
Hourly Avg	2.08	2.08	2.07	2.09	2.11	2.13	2.13	2.11	2.05	2.05	2.03	1.98	1.96	1.96	1.96	1.99	2.00	1.94	1.92	1.96	2.00	2.04	2.05	2.05		
Hourly Max	2.39	2.37	2.29	2.40	2.53	2.59	2.60	2.57	2.37	3.23	3.10	2.14	2.38	2.27	2.22	3.46	2.59	2.26	2.03	2.35	2.38	2.55	2.41	2.36		

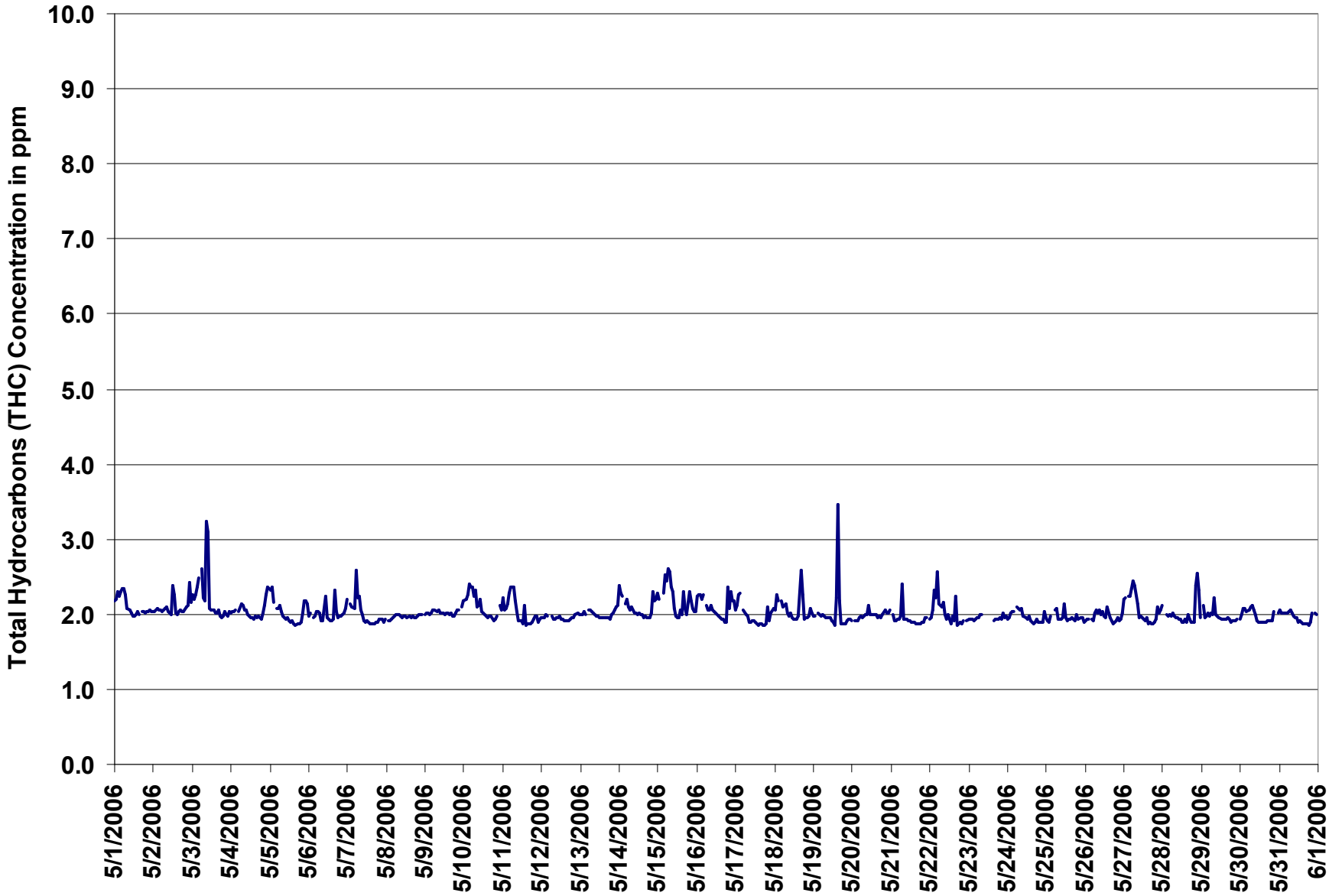
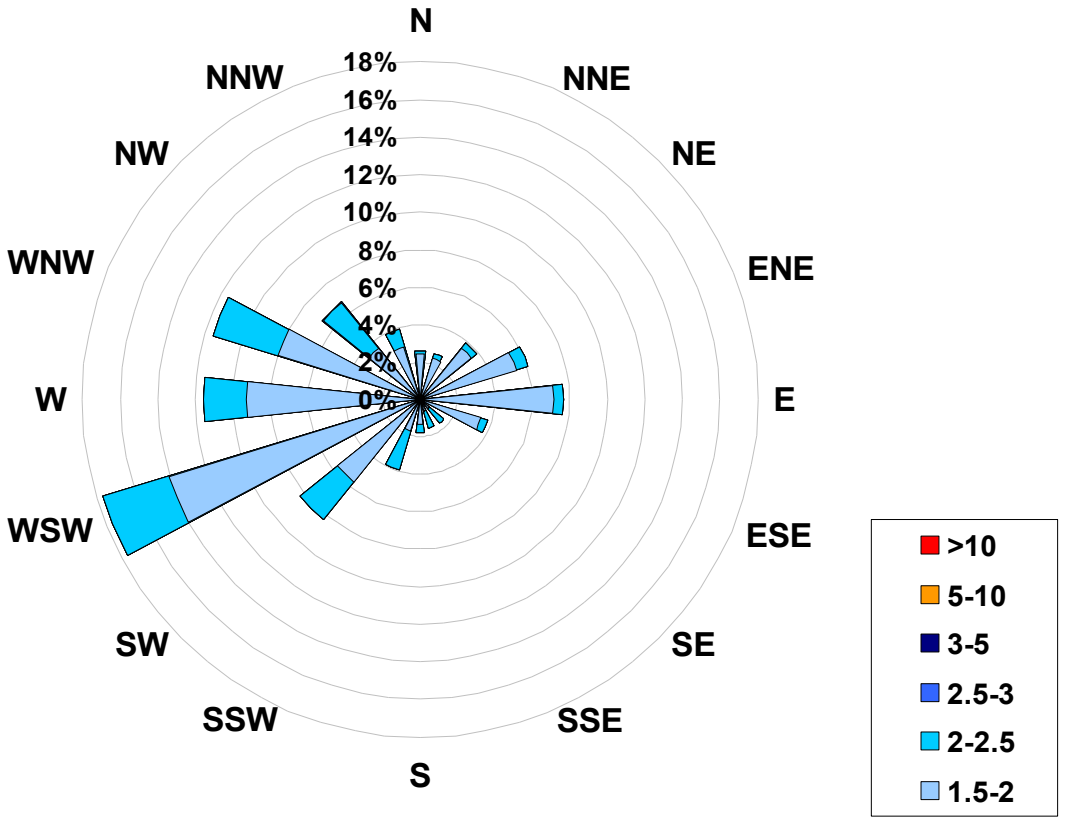


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	534
2	to	2.5	171
2.5	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			706

PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

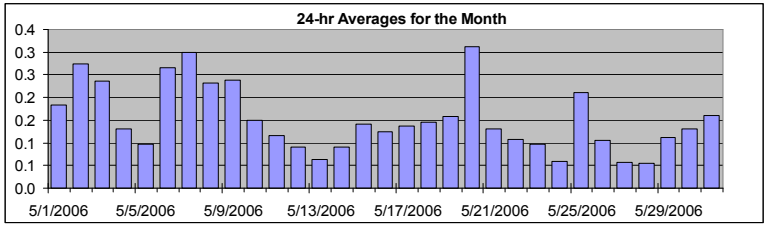
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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



Summary

Maximum 1-hr Average:	1.1	ppb	3-May	6:00 7:00
Maximum 24-hr Value:	0.3	ppb	20-May	

AIC Time:	32 hrs	Operational Time:	707 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.2 ppb	0.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.6
2-May-06	1	0	1	0	0	0	0	0	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0.3	0.5
3-May-06	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
4-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
6-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.3	0.5
7-May-06	0	A	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
8-May-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4
9-May-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	0.4
10-May-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	0.2	0.4
11-May-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	0.3
12-May-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
13-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
14-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
15-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
16-May-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
17-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
18-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
19-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
20-May-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	0.3	0.5
21-May-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4
22-May-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	0.1	0.3
23-May-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	0.3
24-May-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
25-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
26-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
27-May-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-May-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	0.1	0.1
29-May-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2
30-May-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	0.1	0.3
31-May-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	0.2	0.3
Hourly Avg	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.5	0.3	0.5	0.6	0.5	0.5	1.1	0.6	0.5	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.4		

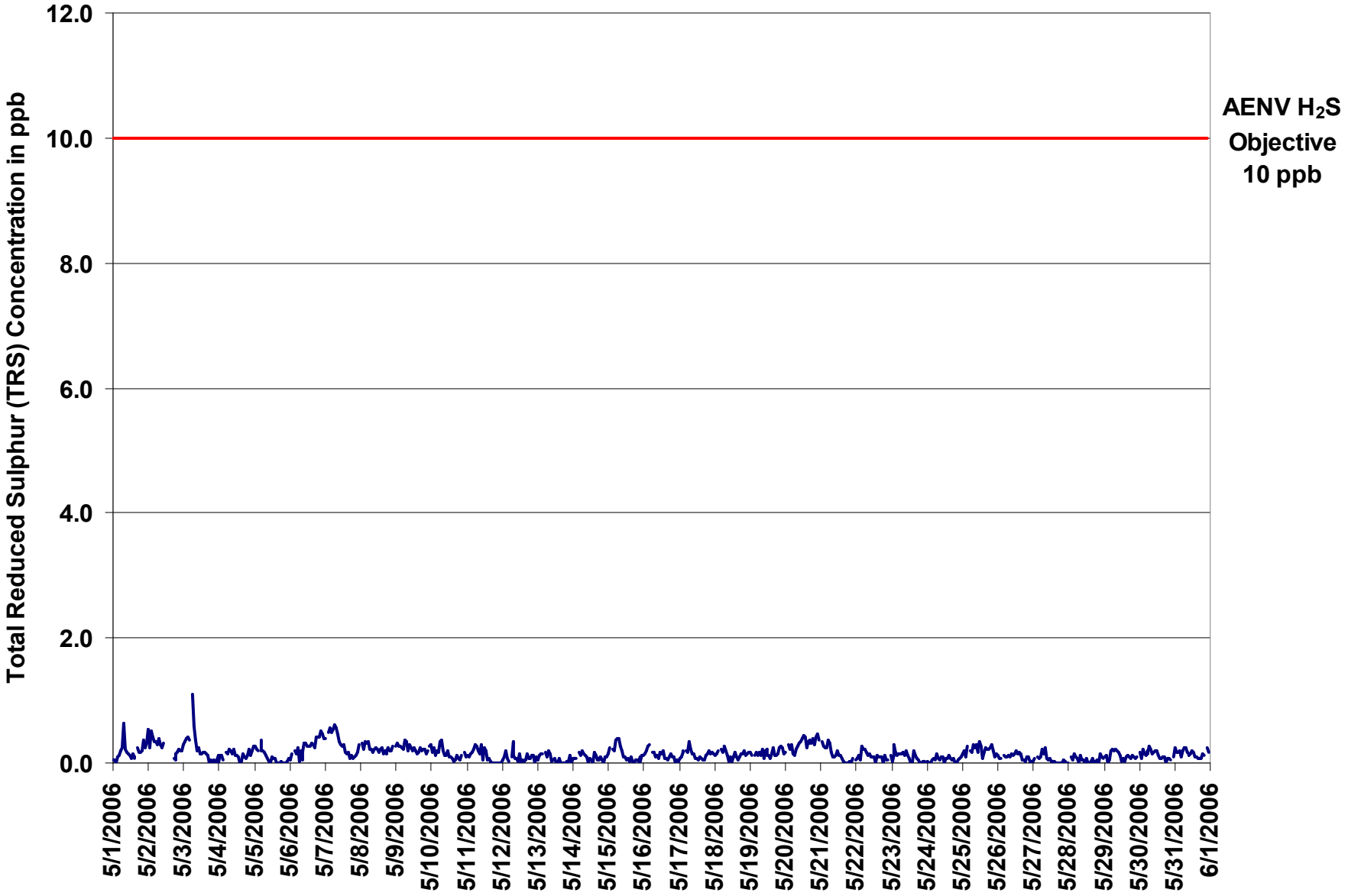


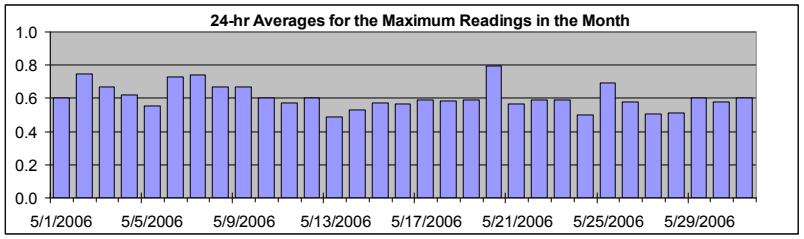
Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	1.7	ppb	3-May	6:00 7:00
Maximum 24-hr Value:	0.8	ppb	20-May	

AIC Time:	32 hrs	Operational Time:	707 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.6 ppb	0.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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

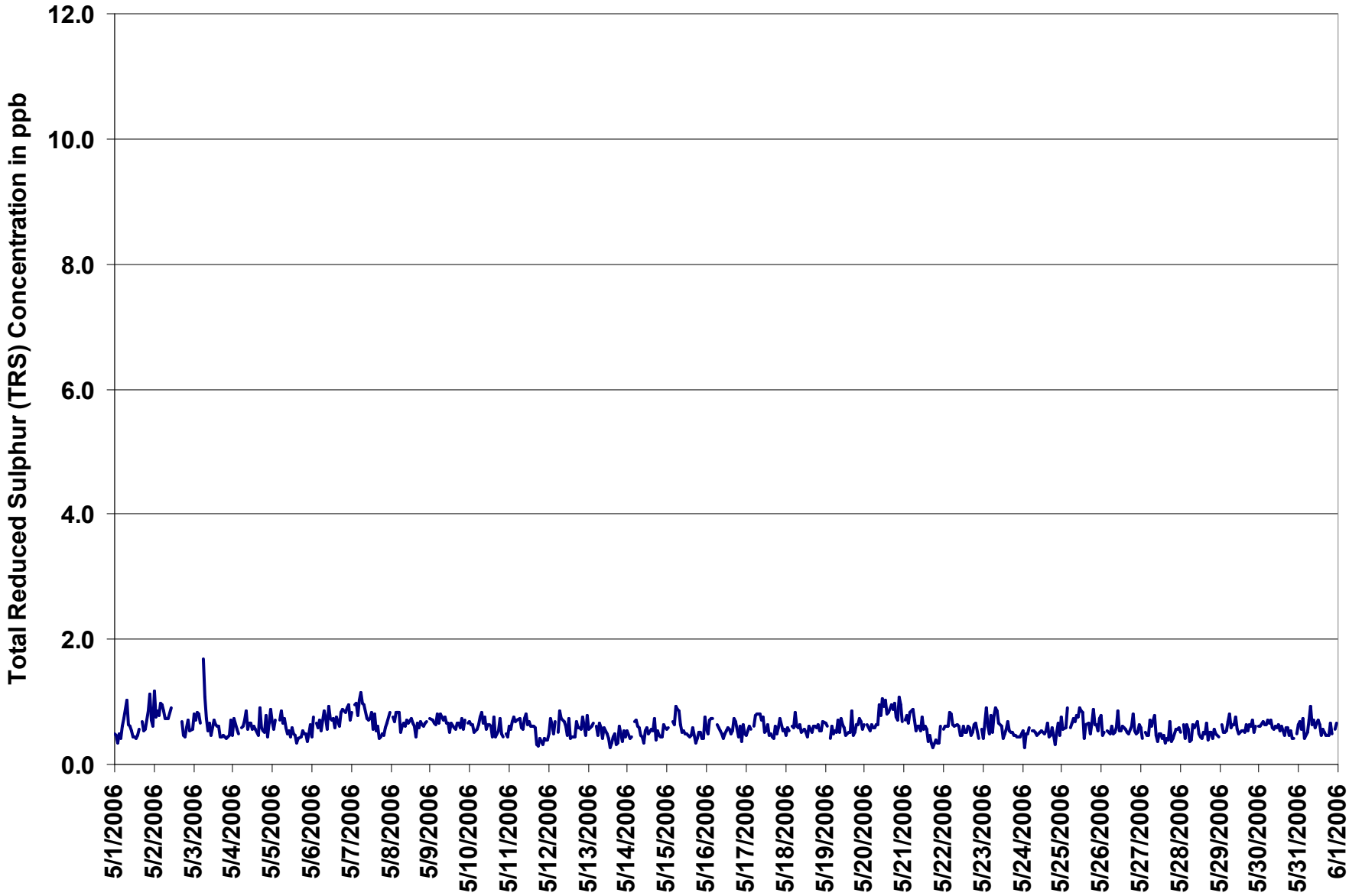
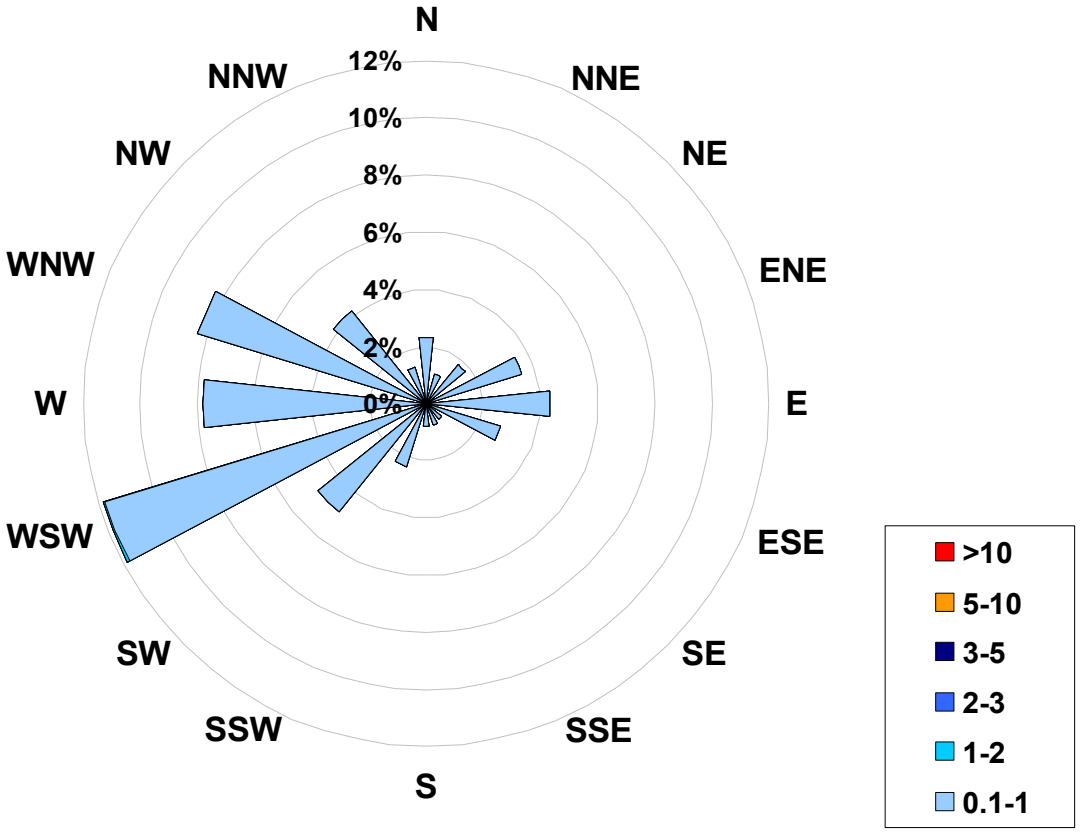


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	706
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			707

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

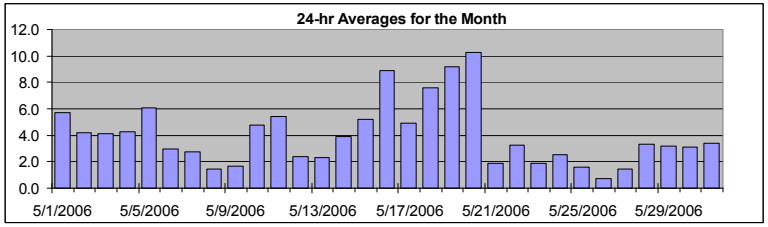
Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 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:	25.4	µg/m³	20-May	15:00 16:00
Maximum 24-hr Value:	10.3	µg/m³	20-May	

AIC Time:	0 hrs	Operational Time:	737 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	99.3%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	15.6	10.8	5.3	3.1	1.7	0.2	0.0	4.0 / 3 µg/m˘	3.4 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	7	5	5	4	5	8	8	12	5	4	5	4	4	6	6	5	5	7	6	7	7	6	4	3	5.7	12.3
2-May-06	3	1	2	3	3	4	5	4	4	2	3	3	2	3	3	3	3	3	3	4	7	9	8	14	4.2	14.2
3-May-06	15	12	7	6	4	7	8	5	3	2	1	1	0	1	1	0	1	2	2	5	7	5	3	2	4.1	14.5
4-May-06	2	2	2	2	4	4	6	9	5	4	3	1	2	3	2	3	5	4	4	4	5	6	10	8	4.3	10.0
5-May-06	7	4	4	3	4	5	7	6	4	4	3	4	4	2	2	1	4	2	3	5	12	21	23	11	6.1	23.4
6-May-06	6	5	4	4	4	5	5	4	3	3	4	1	2	1	3	4	2	2	2	3	2	2	1	1	3.0	6.1
7-May-06	2	3	5	6	6	10	8	6	2	0	0	0	D	2	0	0	1	0	2	4	4	2	2	0	2.8	9.8
8-May-06	1	2	1	1	2	0	4	2	3	2	2	2	1	0	0	0	0	1	1	2	4	2	1	1	1.4	4.3
9-May-06	1	1	1	1	1	2	2	1	0	0	1	0	1	1	2	1	1	1	1	3	6	5	3	3	1.7	5.9
10-May-06	4	4	4	6	8	8	6	8	6	4	2	2	3	2	3	2	4	4	5	5	5	8	7	7	4.8	8.2
11-May-06	7	5	4	3	6	10	9	11	8	2	2	2	0	0	3	5	7	3	5	5	8	10	10	4	5.4	11.2
12-May-06	4	5	3	4	4	5	3	2	1	0	1	2	3	3	3	3	2	0	0	2	2	4	0	2	2.4	5.5
13-May-06	2	2	3	2	2	3	2	4	1	1	0	1	1	1	0	2	3	2	2	4	6	5	4	3	2.3	5.7
14-May-06	9	3	3	2	3	3	4	3	2	2	0	1	2	2	2	2	3	4	4	5	7	13	10	8	3.9	13.0
15-May-06	9	3	4	4	5	7	7	7	4	2	2	5	4	5	4	3	4	5	5	7	10	8	5	6	5.2	10.3
16-May-06	7	9	6	5	8	8	7	8	10	9	12	10	8	8	8	6	7	10	10	11	13	16	13	4	8.9	15.5
17-May-06	3	6	8	7	2	3	3	7	4	3	5	6	9	6	7	6	6	4	6	2	6	2	3	5	4.9	8.7
18-May-06	4	10	4	6	7	6	10	12	6	3	3	2	2	3	2	3	25	12	14	11	9	11	7	9	7.6	25.2
19-May-06	8	9	6	5	6	7	8	8	11	7	11	11	7	8	16	11	8	10	18	8	7	7	13	11	9.2	17.7
20-May-06	5	3	0	2	9	15	15	7	4	6	10	10	12	11	17	25	13	11	10	8	10	13	15	17	10.3	25.4
21-May-06	11	D	0	D	D	D	2	2	0	0	0	0	1	0	1	0	2	2	2	0	3	4	5	1	1.9	11.3
22-May-06	3	3	1	2	4	5	3	4	3	2	1	3	3	1	4	4	4	4	6	3	4	3	3	5	3.3	5.7
23-May-06	4	10	2	1	0	1	0	1	2	3	3	1	1	0	C	C	1	1	3	3	1	1	1	1	1.9	9.9
24-May-06	2	1	0	1	1	2	2	2	3	5	3	5	5	4	2	3	1	2	3	3	3	3	3	2	2.5	5.0
25-May-06	2	1	2	3	2	3	3	3	2	2	2	2	2	2	0	1	0	1	1	1	1	1	1	0	1.6	3.0
26-May-06	0	0	0	0	0	0	1	1	1	0	1	1	0	0	4	1	0	1	1	1	2	1	1	1	0.7	4.1
27-May-06	1	1	0	1	0	2	3	3	1	0	1	2	0	0	1	2	1	0	1	1	3	5	5	4	1.5	5.0
28-May-06	5	4	1	2	1	2	2	3	3	3	3	2	2	1	3	4	7	2	2	3	5	9	6	2	3.3	9.0
29-May-06	2	3	2	3	3	3	2	4	3	2	3	3	3	3	4	5	7	7	4	4	2	0	3	2	3.2	6.6
30-May-06	2	2	3	4	4	4	4	5	4	3	3	2	2	3	2	1	2	2	3	3	3	7	5	4	3.1	6.8
31-May-06	4	2	2	1	2	3	4	5	4	3	2	1	2	2	2	2	2	2	3	4	9	8	7	5	3.4	9.5
Hourly Avg	4.6	4.0	2.8	3.2	3.7	4.8	4.9	5.1	3.6	2.8	3.0	2.9	2.9	2.7	3.5	3.6	4.1	3.6	4.2	4.3	5.6	6.3	5.9	4.7		
Hourly Max	14.5	12.4	7.6	6.8	8.5	14.5	14.5	12.3	11.2	9.0	11.9	10.8	11.9	11.4	17.4	25.4	25.2	12.4	17.7	11.3	13.5	21.0	23.4	16.7		

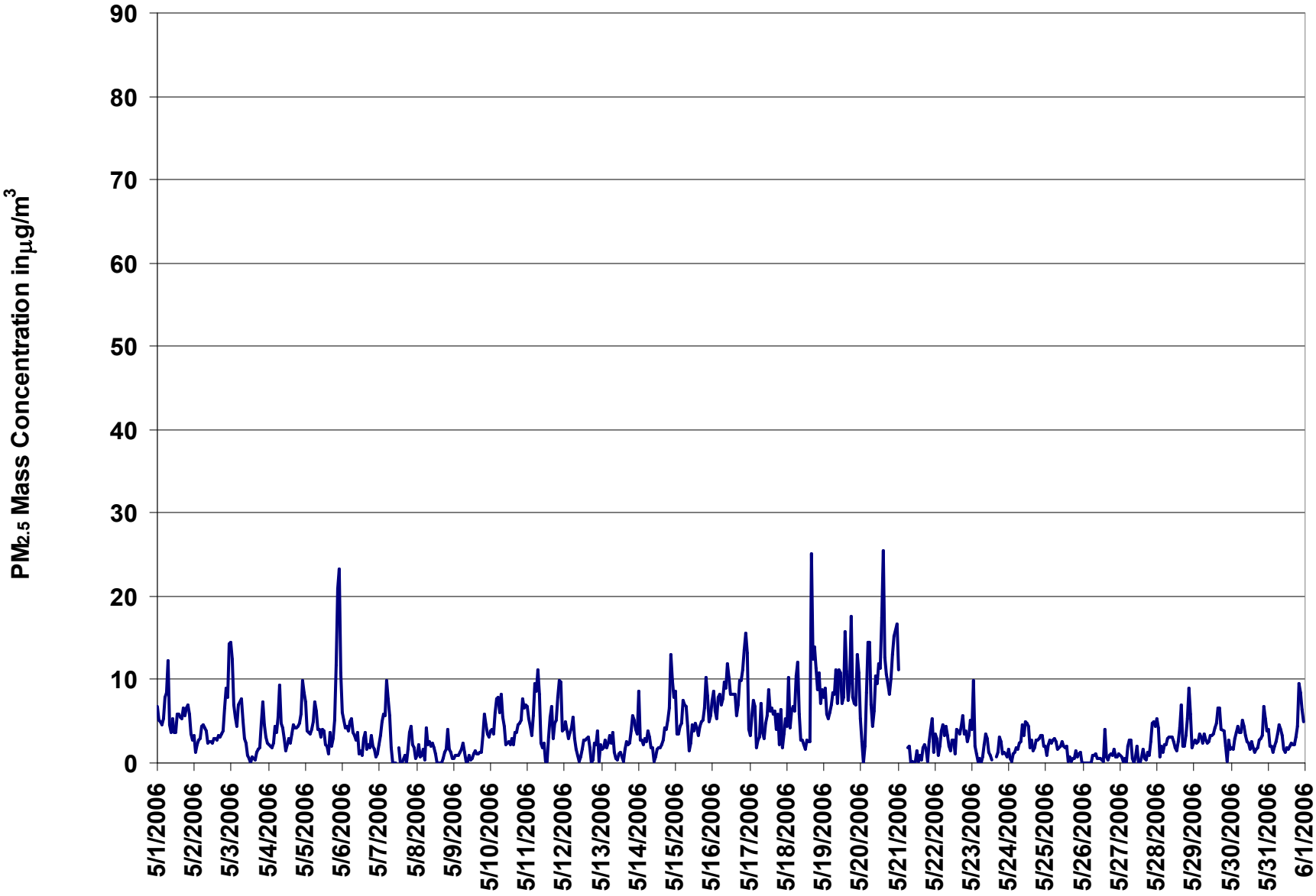


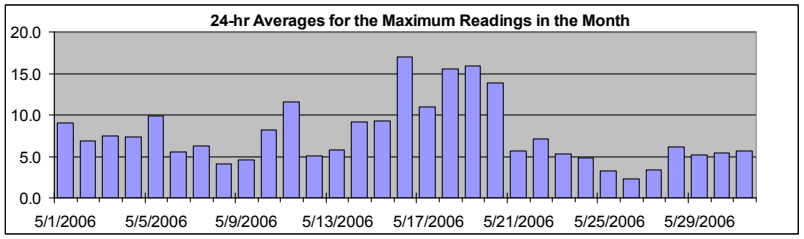
Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	73.5	µg/m³	18-May	16:00 17:00
Maximum 24-hr Value:	17.0	µg/m³	16-May	

AIC Time:	0 hrs	Operational Time:	737 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	99.3%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	31.2	18.3	9.4	5.9	4.2	2.1	1.0	7.7 / 6 µg/m˘	6.9 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	11	10	9	7	10	11	11	16	16	6	8	5	6	9	8	9	8	9	8	9	13	9	5	5	9.0	16.5
2-May-06	6	5	4	4	5	6	6	7	7	4	5	4	5	5	5	5	7	5	6	5	10	18	14	18	6.9	18.5
3-May-06	21	21	10	8	6	10	12	7	5	5	5	5	5	3	2	4	4	7	5	10	11	7	5	5	7.5	20.8
4-May-06	4	4	6	6	8	6	9	11	9	6	7	3	7	6	6	6	7	6	7	7	7	12	15	11	7.3	14.7
5-May-06	10	6	6	5	6	7	10	9	6	6	5	6	6	5	3	4	9	4	5	8	20	30	34	24	9.8	34.1
6-May-06	9	7	6	6	5	6	7	7	6	5	7	5	5	4	6	7	4	7	4	7	5	3	3	3	5.5	8.9
7-May-06	4	6	8	8	9	19	18	10	5	0	3	2	D	7	3	1	3	3	5	11	7	5	3	2	6.3	18.9
8-May-06	3	7	3	3	3	2	6	5	6	3	5	5	4	4	2	2	2	5	6	4	11	3	3	2	4.1	10.7
9-May-06	2	2	2	2	2	3	4	3	5	5	4	3	3	5	5	4	4	4	5	10	11	9	6	5	4.5	11.2
10-May-06	10	10	5	9	12	12	11	15	7	6	5	5	5	4	7	5	7	8	8	7	8	10	11	10	8.2	14.7
11-May-06	19	16	9	10	9	12	12	18	12	6	5	5	4	3	8	23	23	7	11	10	11	17	23	7	11.6	23.0
12-May-06	5	6	5	5	6	9	10	3	3	2	3	4	5	5	6	7	6	2	5	6	4	8	2	4	5.0	9.9
13-May-06	3	3	5	4	4	6	4	6	5	4	4	5	7	6	5	5	7	8	8	10	10	8	6	6	5.8	10.5
14-May-06	14	13	10	4	7	7	7	6	5	5	4	5	7	7	4	5	6	8	7	8	9	39	19	18	9.2	38.7
15-May-06	19	11	6	7	8	10	9	11	7	10	7	9	8	10	8	7	8	8	9	9	15	12	7	7	9.2	18.5
16-May-06	11	23	13	9	13	18	10	11	14	12	17	16	14	13	12	17	11	17	20	16	16	44	46	15	17.0	45.7
17-May-06	12	9	20	22	8	6	6	11	10	6	12	10	15	11	12	12	13	9	9	6	11	12	10	12	10.9	22.3
18-May-06	23	31	9	15	15	10	16	17	16	7	8	6	9	6	6	8	73	20	25	13	11	13	9	10	15.6	73.5
19-May-06	11	11	10	9	9	9	10	14	26	16	19	14	13	12	48	13	10	15	37	18	11	12	20	14	15.9	48.1
20-May-06	9	6	1	4	15	18	18	11	7	9	15	14	17	15	25	31	17	13	12	10	13	15	17	20	13.9	31.4
21-May-06	18	D	0	D	D	D	8	9	1	4	5	4	5	4	4	4	5	4	5	2	7	9	9	4	5.6	18.0
22-May-06	6	6	3	5	6	8	5	9	9	7	6	7	5	6	10	11	8	7	8	5	6	4	9	11	7.1	11.0
23-May-06	7	21	10	4	3	3	5	4	5	5	5	5	6	5	C	C	3	4	5	5	3	3	3	3	5.3	21.5
24-May-06	4	2	2	3	4	4	4	4	6	7	6	7	9	7	5	6	4	4	4	4	5	5	5	4	4.9	9.2
25-May-06	4	3	4	5	5	5	4	4	3	4	4	4	3	4	2	2	2	2	3	3	3	3	3	1	3.3	5.1
26-May-06	0	0	1	0	1	1	2	2	4	2	2	2	2	1	9	5	2	3	3	2	3	2	2	3	2.3	9.0
27-May-06	3	4	2	2	1	3	4	5	3	1	3	5	1	2	3	4	3	2	4	3	4	7	7	7	3.4	7.2
28-May-06	8	9	3	5	3	3	4	4	5	5	5	4	3	4	5	9	12	5	5	6	8	13	13	3	6.1	13.2
29-May-06	4	4	4	4	5	5	4	6	4	4	4	5	5	5	6	7	8	11	6	9	4	2	5	3	5.2	11.2
30-May-06	3	4	5	6	6	6	6	7	6	5	4	5	5	7	5	5	3	3	4	4	5	11	9	6	5.4	10.9
31-May-06	6	4	4	3	3	4	6	6	6	5	5	3	4	4	4	5	5	5	6	6	14	13	8	6	5.6	14.4
Hourly Avg	8.6	8.8	5.9	6.2	6.5	7.7	8.0	8.3	7.3	5.6	6.5	5.9	6.4	6.0	7.9	7.7	9.2	7.0	8.1	7.5	8.9	11.6	10.6	8.0		
Hourly Max	22.7	30.9	20.2	22.3	14.9	18.9	18.5	18.3	25.7	15.8	19.4	16.1	17.4	15.0	48.1	31.4	73.5	19.5	36.8	17.8	20.3	44.2	45.7	24.3		

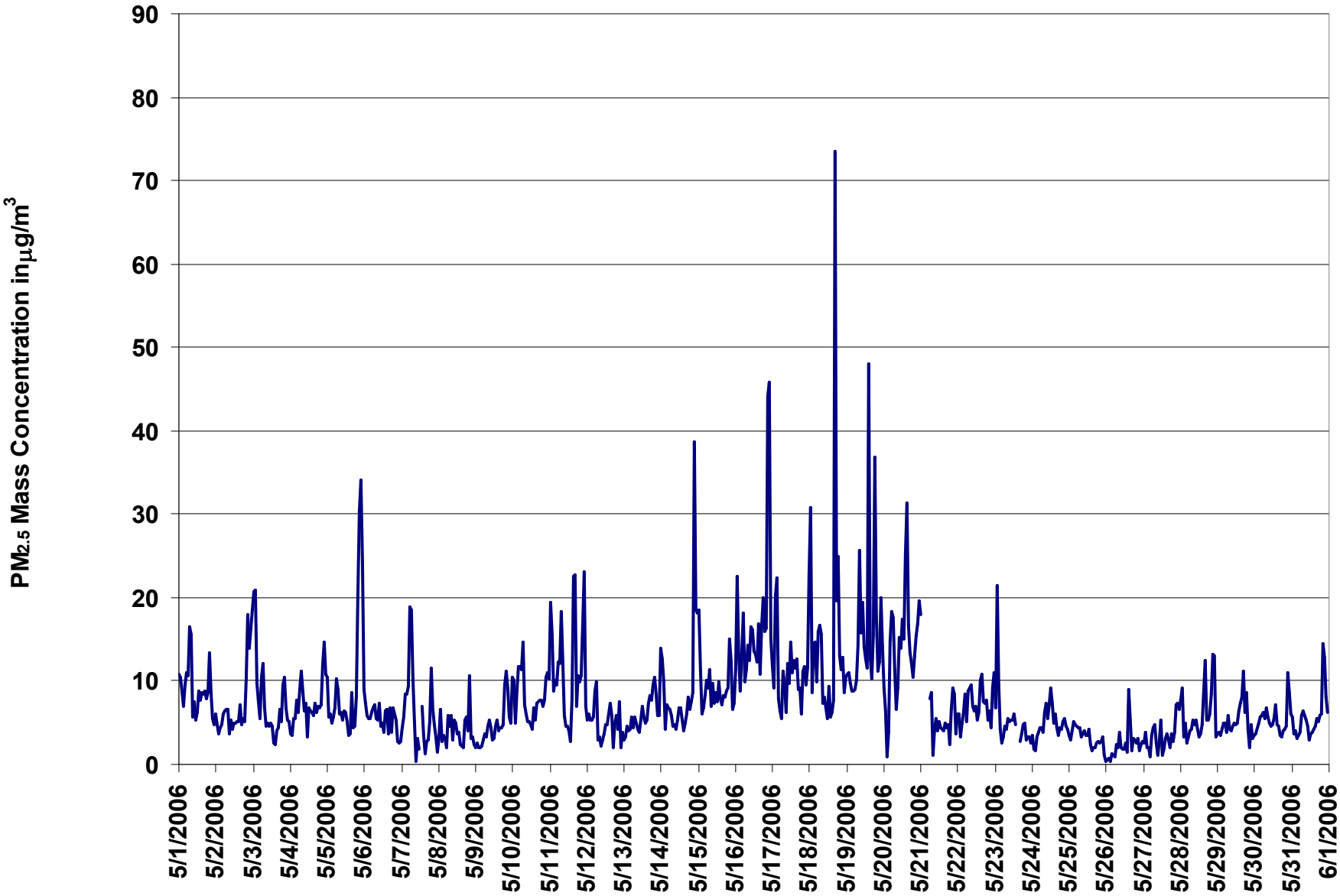
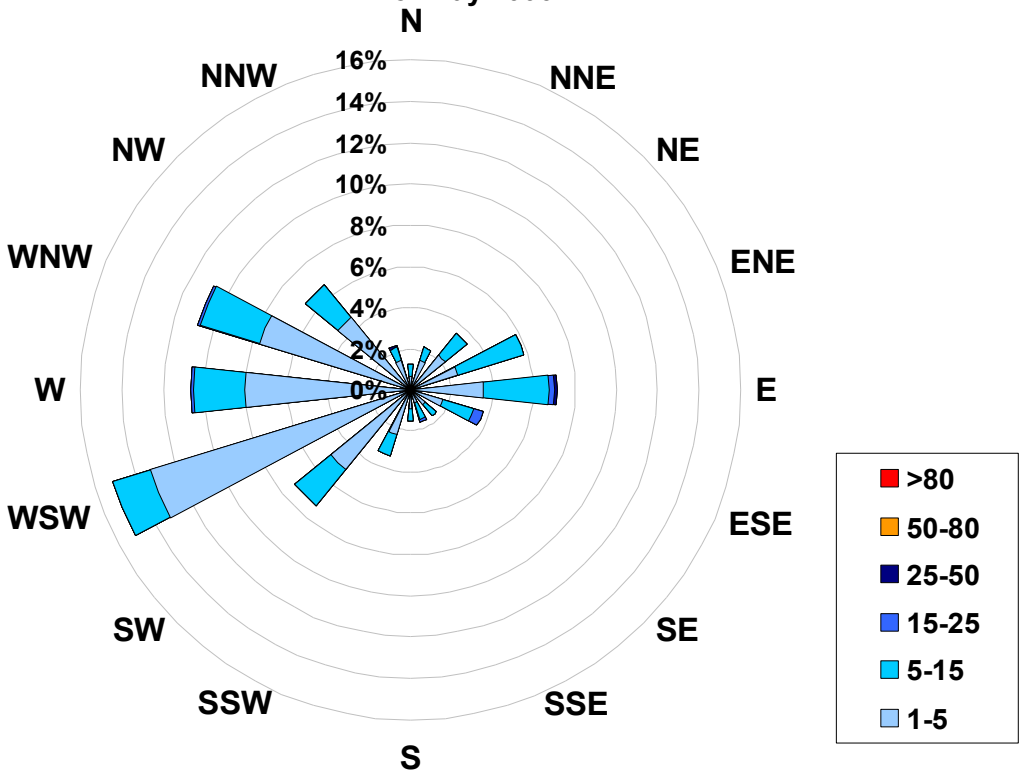


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 May 2006



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	533
5	to	15	194
15	to	25	8
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			737

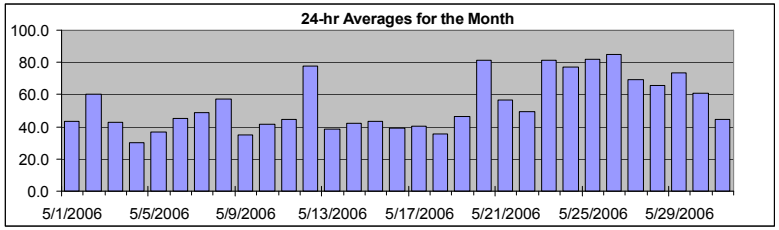
PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	95.6	%	20-May	23:00 0:00
Maximum 24-hr Value:	85.0	%	26-May	

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
	94.8	90.9	72.5	52.1	34.6	20.9	17.2	54.0 %	52.1 %

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	52	49	56	59	59	65	59	52	42	35	28	23	24	26	29	30	31	34	35	40	49	57	57	56	43.6	64.8
2-May-06	62	58	60	62	66	70	75	78	76	72	68	66	61	55	50	45	42	41	39	41	47	63	72	76	60.3	77.7
3-May-06	77	80	84	88	86	86	70	59	50	41	29	21	19	18	18	16	15	16	17	20	25	28	30	34	42.8	87.6
4-May-06	40	42	43	44	46	43	41	37	31	26	23	21	21	21	21	20	20	19	17	18	24	29	33	36	29.8	46.4
5-May-06	37	36	40	43	45	46	46	38	34	33	33	31	32	32	30	29	28	27	28	31	38	47	49	44	36.7	49.0
6-May-06	43	45	46	50	54	58	56	49	46	42	40	38	35	34	35	37	40	40	38	41	46	52	56	58	45.0	58.3
7-May-06	64	64	63	66	63	66	70	60	53	49	46	45	36	31	29	27	29	28	28	34	49	52	58	56	48.6	70.1
8-May-06	55	58	64	62	65	67	71	76	84	91	89	85	77	57	45	37	31	28	28	29	35	44	46	48	57.1	90.6
9-May-06	50	53	54	55	56	56	54	43	35	32	28	26	23	22	21	19	18	17	17	20	29	33	38	42	34.9	56.2
10-May-06	47	54	55	61	66	70	56	51	46	41	35	29	27	26	24	25	25	27	29	33	37	42	45	45	41.6	70.1
11-May-06	48	51	54	59	64	67	67	55	43	36	36	34	29	26	24	25	34	32	34	37	39	43	66	71	44.6	70.9
12-May-06	74	80	82	82	82	85	90	93	91	90	90	90	89	87	86	81	78	66	57	55	56	61	59	58	77.5	92.8
13-May-06	60	59	64	58	57	60	54	50	43	37	32	28	24	22	18	18	19	21	21	25	32	36	41	47	38.7	64.1
14-May-06	53	56	56	56	64	69	58	54	47	39	35	31	28	26	25	24	24	23	24	27	33	47	55	67	42.5	68.6
15-May-06	72	76	77	81	81	82	75	60	48	33	28	26	24	23	21	19	18	18	18	20	28	36	37	40	43.5	81.5
16-May-06	46	65	67	68	74	73	48	42	41	39	36	32	27	24	22	18	17	17	17	19	26	31	42	41	38.9	74.1
17-May-06	47	51	60	70	65	61	58	51	41	34	32	33	34	31	29	27	27	27	30	28	32	29	33	38	40.3	70.2
18-May-06	39	51	47	49	52	52	53	46	36	29	28	25	24	22	21	20	20	24	28	30	34	39	41	44	35.5	52.9
19-May-06	44	46	52	52	56	56	51	49	44	41	36	32	30	28	27	27	30	33	51	61	63	64	67	72	46.3	71.6
20-May-06	75	74	67	65	69	72	73	72	70	69	73	82	83	83	87	88	91	93	93	94	94	95	95	96	81.3	95.6
21-May-06	95	88	86	84	80	73	69	71	57	48	42	41	39	37	36	38	37	40	42	43	48	52	56	59	56.6	95.4
22-May-06	63	65	69	75	82	84	71	59	53	45	41	40	37	33	33	34	33	33	36	38	39	40	43	48	49.7	83.6
23-May-06	48	71	82	82	85	84	89	90	92	94	95	91	85	81	79	74	73	74	79	80	81	82	81	81	81.3	94.5
24-May-06	82	80	84	87	90	87	85	84	77	73	71	67	63	62	64	68	65	66	73	73	76	86	91	92	77.0	92.4
25-May-06	93	94	94	95	95	94	92	86	83	81	83	80	78	71	68	69	69	68	72	75	76	80	89	87	82.1	95.0
26-May-06	89	90	91	93	93	92	93	93	90	87	88	87	86	80	79	73	69	74	75	78	81	85	87	89	85.0	93.3
27-May-06	93	95	95	95	95	95	95	85	72	63	64	68	58	52	46	49	52	48	46	45	54	62	69	71	69.5	95.4
28-May-06	74	79	80	82	84	86	82	75	67	62	56	49	44	36	33	45	68	68	53	57	70	78	74	77	65.9	86.0
29-May-06	84	88	85	85	87	85	84	86	83	79	77	70	65	62	57	52	55	58	50	64	69	72	80	85	73.4	87.6
30-May-06	87	89	92	92	92	91	89	83	72	63	54	51	45	52	42	39	33	29	31	35	40	49	54	58	60.9	92.3
31-May-06	61	63	63	65	65	63	59	55	51	46	39	35	33	30	28	28	28	26	26	28	35	42	48	48	44.4	64.8
Hourly Avg	63.1	66.2	68.2	69.8	71.5	72.1	68.8	63.9	58.0	53.1	50.1	47.6	44.5	41.6	39.6	38.8	39.3	39.1	39.8	42.6	47.9	53.5	57.8	60.1		
Hourly Max	95.4	94.5	94.7	94.8	95.0	95.4	94.7	92.8	92.1	93.7	94.5	90.7	88.5	86.5	86.9	88.1	91.0	92.5	93.2	94.1	94.3	94.9	95.3	95.6		

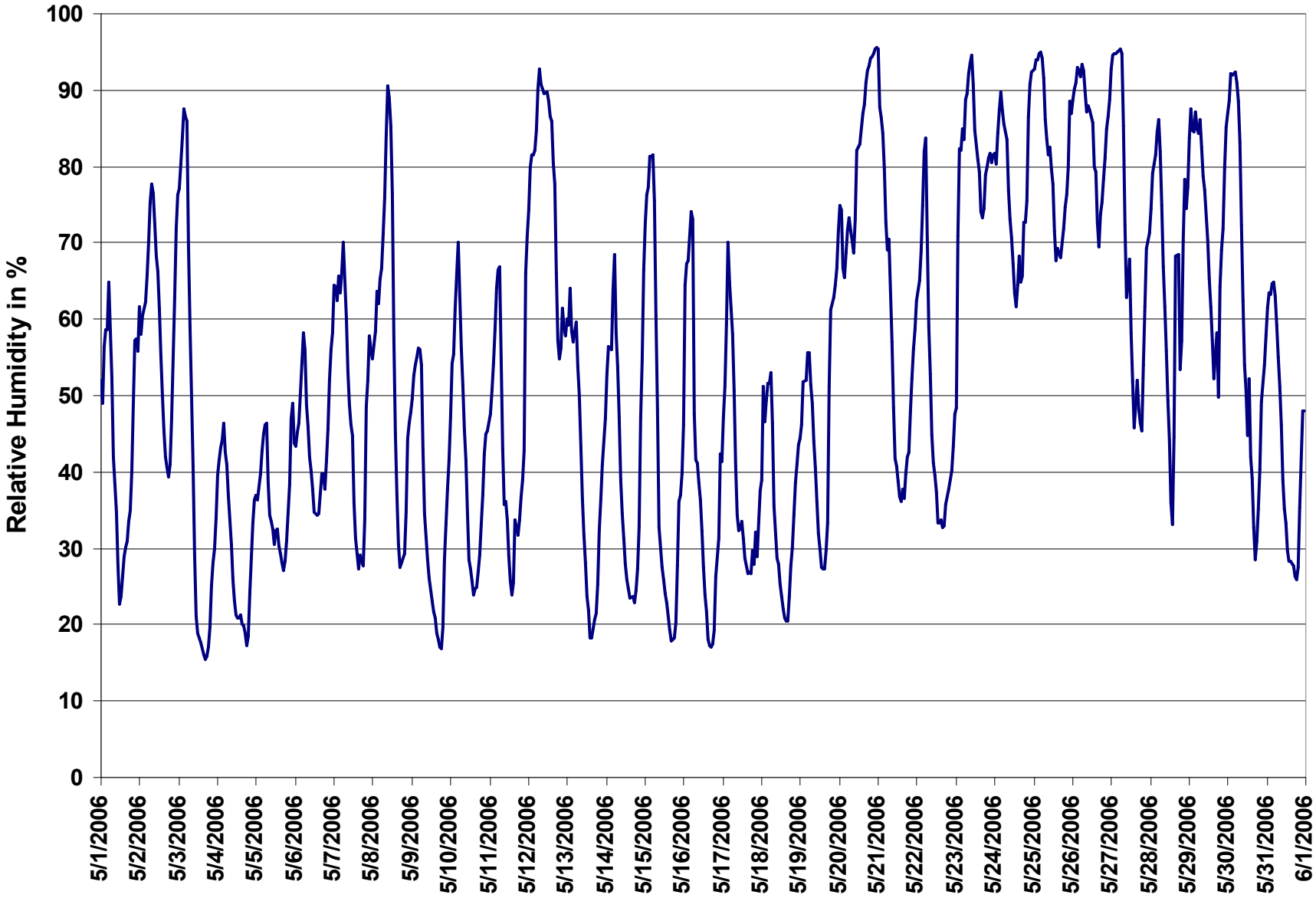


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

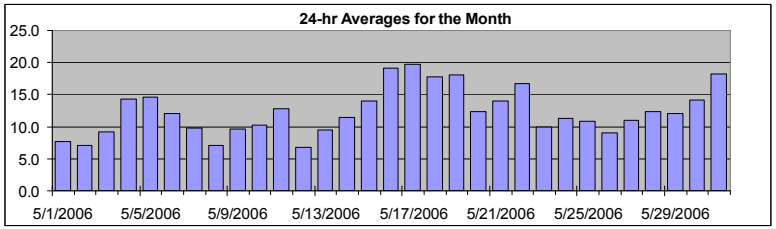
PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	29.8	°C	16-May	18:00 19:00
Maximum 24-hr Value:	19.8	°C	17-May	

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
	25.7	22.8	16.0	12.0	8.4	3.3	0.5	12.4 °C	12.0 °C

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	4	3	2	2	1	2	3	5	7	10	12	14	13	12	12	12	12	11	10	9	9	7	7	7	7.7	13.6
2-May-06	6	6	5	5	5	5	5	5	5	6	7	7	9	10	11	12	12	11	11	10	8	6	4	2	7.1	11.6
3-May-06	0	-1	-1	-2	-2	-2	1	4	6	9	12	14	15	16	17	17	18	18	17	16	13	12	12	10	9.2	17.8
4-May-06	8	7	7	6	6	8	8	11	14	16	19	20	21	21	20	20	19	20	20	19	16	14	12	11	14.2	20.7
5-May-06	11	12	11	10	9	9	10	13	16	16	17	19	18	18	19	20	20	20	19	17	14	11	11	12	14.7	19.8
6-May-06	12	12	12	11	10	9	10	13	13	14	15	15	15	15	15	14	13	13	13	12	10	8	7	6	12.0	15.4
7-May-06	5	5	5	4	5	5	4	8	11	12	13	12	13	14	15	15	14	14	14	13	10	9	7	7	9.7	14.8
8-May-06	7	7	6	6	5	5	4	4	3	2	3	3	5	9	10	12	13	13	13	12	10	8	7	6	7.1	12.7
9-May-06	5	4	3	3	3	3	4	7	9	11	12	13	14	14	15	16	15	15	15	14	12	10	8	7	9.6	15.5
10-May-06	5	3	2	1	0	0	3	5	7	10	12	15	17	17	19	18	18	17	17	16	14	12	10	10	10.3	18.7
11-May-06	10	9	8	6	5	5	6	9	12	15	16	17	18	19	20	18	17	17	16	15	15	14	11	10	12.8	19.8
12-May-06	9	8	8	8	8	8	6	5	5	4	4	4	5	6	6	7	8	9	10	9	9	7	6	5	6.8	9.6
13-May-06	4	4	2	3	3	2	4	6	8	10	11	13	15	16	16	15	15	15	14	13	12	10	9	7	9.5	16.0
14-May-06	7	6	5	5	3	2	6	8	10	13	13	14	16	17	17	18	18	19	18	16	15	12	9	7	11.4	18.8
15-May-06	6	4	3	2	2	3	5	10	14	16	17	19	20	21	23	23	23	23	22	21	19	16	14	13	14.1	23.1
16-May-06	11	8	6	6	5	5	11	14	15	17	19	22	24	26	28	29	30	30	30	28	25	23	22	22	19.1	29.8
17-May-06	20	18	16	14	14	15	16	18	20	22	22	23	23	24	25	25	25	24	23	22	19	17	15	14	19.8	24.8
18-May-06	13	12	12	11	11	11	12	14	18	20	21	22	22	23	23	24	23	23	22	21	19	17	16	16	17.7	23.6
19-May-06	15	15	13	13	12	12	14	16	17	19	21	22	24	25	26	26	24	23	20	17	16	15	15	14	18.0	25.8
20-May-06	13	13	13	13	12	12	12	12	13	13	13	12	13	13	12	13	12	12	12	12	12	12	12	12	12.4	13.2
21-May-06	11	11	10	10	9	9	10	11	13	15	16	16	17	18	19	18	19	17	17	16	15	13	13	12	14.0	18.8
22-May-06	12	11	10	9	7	7	11	14	16	18	19	20	21	22	23	23	23	23	21	20	19	18	17	16	16.7	23.5
23-May-06	16	13	11	10	9	9	8	8	7	7	8	9	10	11	11	12	12	12	11	10	10	9	9	9	10.0	16.0
24-May-06	9	9	8	8	8	8	9	10	11	12	12	13	14	15	15	14	15	14	13	13	12	11	10	10	11.4	15.4
25-May-06	9	9	9	9	9	9	10	11	10	11	11	11	12	14	14	13	13	13	12	11	11	10	9	9	10.8	13.8
26-May-06	8	8	7	7	7	7	7	8	8	9	9	9	10	11	11	12	13	12	11	10	10	9	9	8	9.1	12.6
27-May-06	7	6	4	4	3	4	6	10	13	13	12	11	14	15	16	16	16	16	16	15	14	12	11	10	11.0	16.2
28-May-06	9	8	7	6	6	6	7	9	11	13	15	17	19	20	20	17	13	15	17	16	13	12	12	11	12.4	20.4
29-May-06	10	9	9	9	9	9	9	8	9	10	10	13	15	16	17	18	17	17	18	14	12	11	10	9	12.0	18.0
30-May-06	8	8	7	8	7	7	8	10	13	15	17	18	18	17	20	20	20	20	20	19	18	15	13	12	14.1	20.3
31-May-06	11	11	11	10	10	10	12	14	16	19	21	22	23	24	25	25	25	25	25	24	21	19	17	17	18.2	24.8
Hourly Avg	9.1	8.2	7.5	7.0	6.5	6.6	7.8	9.7	11.4	12.7	13.8	14.8	15.9	16.8	17.4	17.4	17.2	17.0	16.7	15.5	13.9	12.4	11.2	10.3		
Hourly Max	19.6	17.9	15.9	13.8	14.5	15.2	15.9	18.3	20.4	21.8	22.3	22.9	24.2	26.5	28.0	29.3	29.7	29.7	29.8	28.3	25.2	23.1	22.1	21.7		

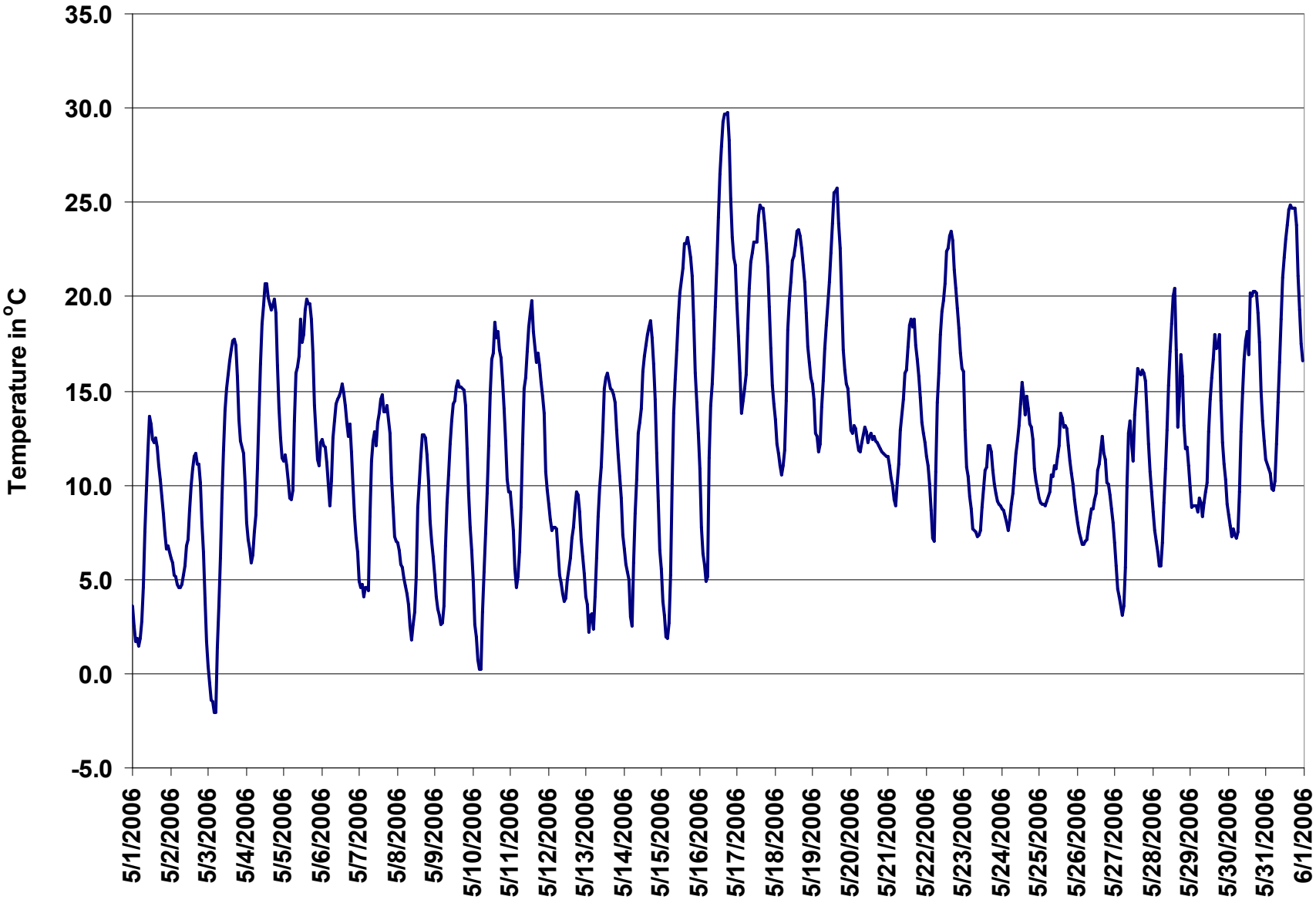


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

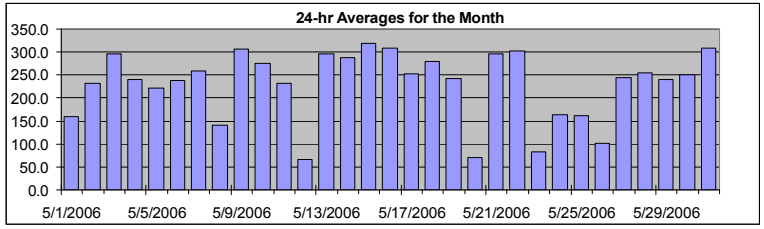
PASZA - Henry Pirker - Solar Radiation Monthly Summary

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	946.0	W/m²	27-May	12:00 13:00
Maximum 24-hr Value:	319.2	W/m²	15-May	

AIC Time:	0 hrs	Operational Time:	743 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	828.1	770.4	424.4	110.6	0.1	0.0	0.0	230.3 W/m²	110.6 W/m²

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	0	7	46	110	223	364	465	650	410	309	321	344	260	168	102	32	4	0	0	0	159.0	650.3
2-May-06	0	0	0	0	0	4	79	187	226	248	414	416	727	799	736	646	468	281	238	88	9	0	0	0	232.0	798.6
3-May-06	0	0	0	0	0	18	140	234	417	571	686	763	801	800	749	659	541	398	246	82	5	0	0	0	296.2	800.6
4-May-06	0	0	0	0	1	15	117	249	430	568	680	746	747	662	491	315	203	202	191	132	10	0	0	0	239.9	746.9
5-May-06	0	0	0	0	0	16	133	262	445	350	411	663	410	460	625	468	387	375	238	71	9	0	0	0	221.9	663.4
6-May-06	0	0	0	0	0	23	138	251	369	568	672	638	637	642	524	405	277	169	281	111	11	0	0	0	238.2	672.0
7-May-06	0	0	0	0	0	7	51	261	459	594	595	573	793	806	676	527	309	272	208	89	16	0	0	0	259.8	806.1
8-May-06	0	0	0	0	0	11	46	51	27	55	197	166	263	633	397	401	481	316	224	97	18	0	0	0	141.0	632.9
9-May-06	0	0	0	0	1	15	114	246	442	608	722	788	878	733	756	689	555	394	266	131	18	0	0	0	306.5	877.5
10-May-06	0	0	0	0	2	39	115	215	350	447	628	762	814	771	803	490	571	298	218	93	15	1	0	0	276.4	813.8
11-May-06	0	0	0	0	1	12	70	200	362	542	590	753	832	767	635	217	275	194	98	31	8	0	0	0	232.8	832.0
12-May-06	0	0	0	0	0	4	9	21	48	68	83	114	137	137	147	216	200	183	152	70	15	0	0	0	66.8	216.0
13-May-06	0	0	0	0	2	23	170	278	481	626	735	814	854	831	713	484	449	310	230	72	14	0	0	0	295.2	853.6
14-May-06	0	0	0	1	2	25	177	278	477	589	521	602	672	737	680	685	580	436	282	139	21	1	0	0	287.6	736.9
15-May-06	0	0	0	0	2	29	173	269	475	612	722	802	830	842	785	689	569	426	278	136	21	1	0	0	319.2	841.5
16-May-06	0	0	0	0	2	26	177	274	461	606	690	725	752	822	779	686	556	427	278	141	17	0	0	0	309.2	822.0
17-May-06	0	0	0	0	2	19	134	278	437	580	593	633	459	680	603	550	505	305	164	102	22	1	0	0	252.9	679.6
18-May-06	0	0	0	1	1	24	82	203	477	608	727	804	825	797	778	626	312	196	164	87	14	1	0	0	280.3	825.0
19-May-06	0	0	0	0	3	33	133	212	376	412	558	679	745	784	575	483	297	239	253	45	10	1	0	0	243.2	783.5
20-May-06	0	0	0	0	0	17	44	73	97	143	144	245	228	182	122	148	78	62	41	35	14	1	0	0	69.8	245.0
21-May-06	0	0	0	0	2	37	173	268	517	647	750	648	797	800	704	523	589	336	210	62	33	2	0	0	295.7	799.9
22-May-06	0	0	0	0	4	31	185	282	482	626	733	805	844	794	668	636	598	358	128	52	11	0	0	0	301.6	844.2
23-May-06	0	0	0	0	1	4	9	15	11	21	81	274	238	292	M	432	248	153	65	29	11	0	0	0	81.9	432.4
24-May-06	0	0	0	0	2	37	76	98	221	283	365	341	548	689	371	245	389	132	83	38	3	0	0	0	163.4	688.9
25-May-06	0	0	0	0	2	21	102	134	126	183	157	217	318	673	477	482	383	288	183	96	34	1	0	0	161.6	673.2
26-May-06	0	0	0	1	1	10	25	76	109	144	131	166	177	290	261	264	393	206	136	26	25	4	0	0	101.8	393.3
27-May-06	0	0	0	0	5	36	126	249	484	354	166	296	946	745	745	460	410	397	283	149	27	2	0	0	245.1	946.0
28-May-06	0	0	0	0	5	30	191	275	472	602	700	768	802	812	489	117	61	423	280	79	16	2	0	0	255.2	812.0
29-May-06	0	0	0	0	3	18	48	76	182	239	315	731	771	787	750	678	339	346	325	112	27	4	0	0	239.6	787.5
30-May-06	0	0	0	0	5	35	79	139	394	546	650	543	624	538	601	579	408	431	277	134	29	3	0	0	250.7	649.7
31-May-06	0	0	0	0	5	31	191	296	474	602	699	768	774	774	811	682	455	387	284	136	20	4	0	0	308.0	810.8
Hourly Avg	0.0	0.0	0.0	0.1	1.8	21.1	108.2	195.6	340.3	432.4	502.6	577.2	634.0	657.6	592.3	478.2	391.9	293.8	206.6	86.9	16.3	1.0	0.1	0.0		
Hourly Max	0.2	0.1	0.1	0.9	5.2	39.5	190.7	295.8	516.6	646.5	749.7	813.9	946.0	841.5	810.8	689.1	597.7	435.5	324.6	149.3	33.6	4.1	0.4	0.2		

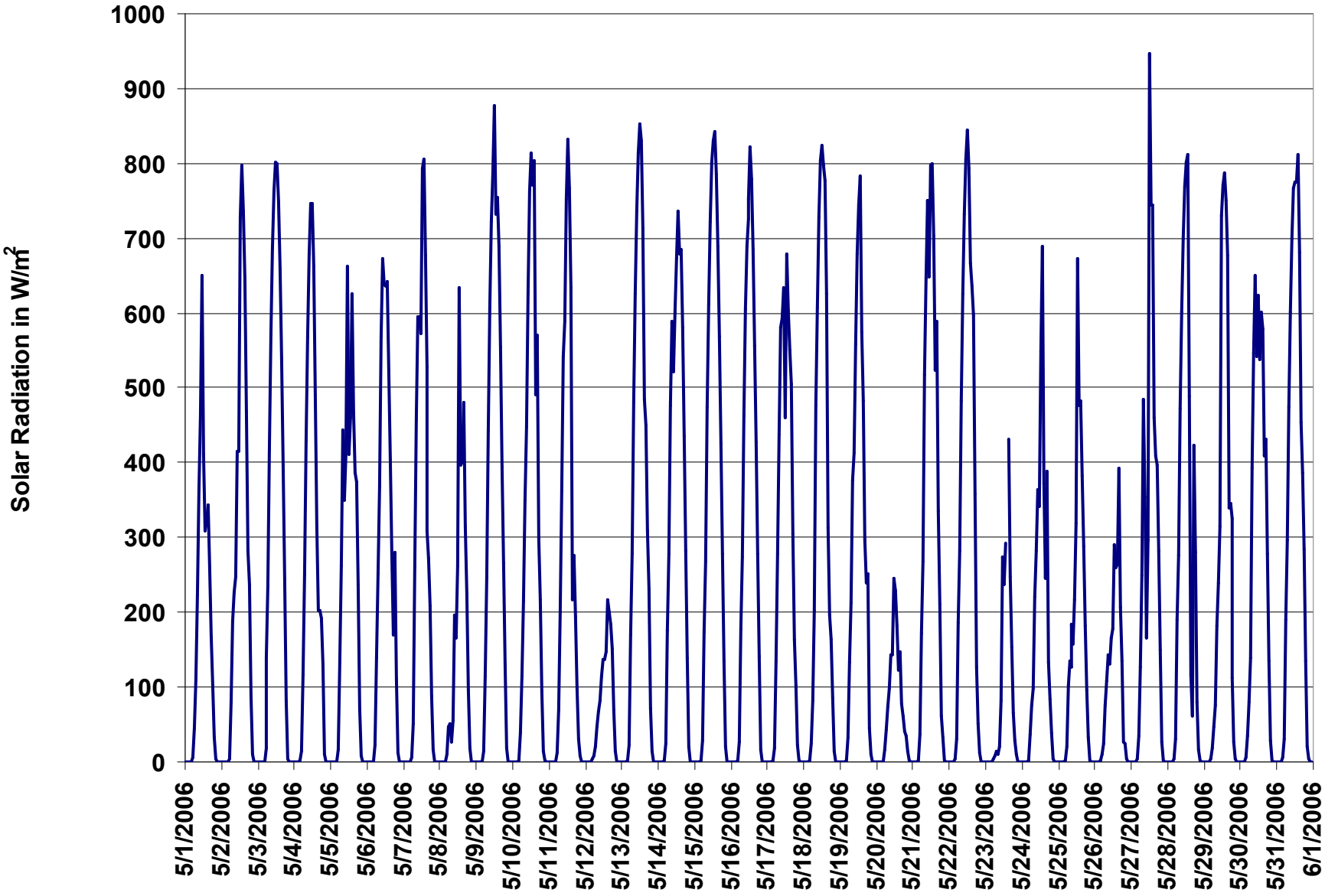


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

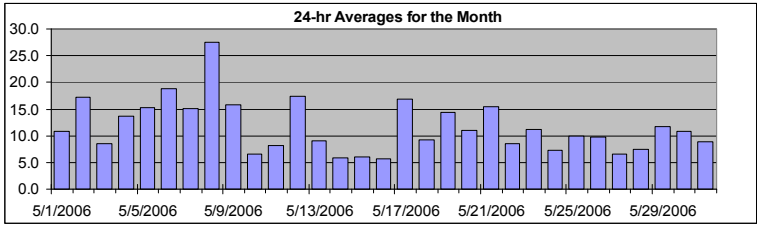
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	35.2	km/hr	8-May	13:00 14:00
Maximum 24-hr Value:	27.5	km/hr	8-May	

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
	30.4	25.4	15.3	9.5	6.5	3.7	2.7	11.6 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-06	6	6	4	4	5	2	4	6	9	8	7	8	9	10	10	11	18	21	24	22	19	17	13	17	10.8	23.9
2-May-06	14	14	14	16	17	19	21	22	18	21	25	25	26	24	23	23	22	20	17	13	8	4	4	4	17.2	25.9
3-May-06	5	5	5	3	4	4	5	8	9	7	9	8	9	9	9	9	9	9	13	15	11	15	16	12	8.6	16.2
4-May-06	9	7	8	5	6	11	8	7	12	16	20	23	21	25	24	21	17	14	22	22	11	6	5	6	13.6	24.7
5-May-06	5	9	11	12	12	15	12	14	18	22	23	24	25	19	19	19	23	26	21	13	7	4	4	9	15.2	25.9
6-May-06	11	8	9	11	11	10	8	18	19	22	24	25	28	23	29	26	27	28	30	31	23	15	10	6	18.8	31.2
7-May-06	7	5	6	5	5	5	5	4	8	16	24	28	31	32	24	19	18	11	15	12	15	22	25	22	15.1	31.6
8-May-06	23	29	27	28	27	29	34	28	27	23	30	30	31	35	32	29	28	28	27	25	22	25	22	20	27.5	35.2
9-May-06	19	19	19	21	18	16	13	19	22	21	20	20	19	17	15	14	14	10	9	9	12	11	11	10	15.8	22.4
10-May-06	7	4	4	3	3	3	2	6	7	8	9	7	8	8	8	7	11	8	10	10	8	8	6	5	6.6	10.9
11-May-06	5	7	6	5	5	3	4	4	5	7	10	10	10	9	9	12	10	10	9	4	6	8	19	14	8.1	19.1
12-May-06	14	10	10	9	10	12	19	24	26	25	23	21	21	23	20	23	22	21	20	17	16	10	9	12	17.4	26.1
13-May-06	10	9	7	11	11	7	10	9	12	13	17	10	6	7	10	8	10	10	8	10	7	6	5	4	9.0	17.0
14-May-06	2	3	7	7	4	3	6	7	7	6	7	7	6	7	7	6	6	5	9	10	6	3	5	3	5.8	9.9
15-May-06	4	4	4	4	4	5	7	5	4	7	8	7	6	6	6	8	6	9	8	7	7	8	8	5	6.1	8.6
16-May-06	5	4	4	5	4	3	5	6	7	6	6	6	6	6	6	5	5	4	3	4	6	7	13	9	5.6	13.1
17-May-06	6	3	3	5	8	10	13	14	19	25	26	24	23	22	27	29	28	28	24	21	17	14	10	8	16.8	28.8
18-May-06	5	4	5	4	3	6	4	4	9	16	16	15	18	16	15	13	10	8	11	9	7	8	9	7	9.3	17.7
19-May-06	8	7	5	6	8	8	11	14	18	18	18	22	18	19	16	17	18	17	21	23	20	17	9	7	14.4	23.5
20-May-06	8	10	15	16	14	15	15	14	13	13	12	12	12	13	11	10	10	8	8	10	8	7	5	5	11.0	15.6
21-May-06	7	12	10	9	7	13	13	12	16	17	21	21	19	21	21	21	23	27	25	17	14	7	8	6	15.4	26.9
22-May-06	6	7	4	3	4	3	3	3	4	6	8	11	11	10	11	12	13	14	13	11	12	14	9	13	8.5	13.7
23-May-06	14	13	12	14	16	12	11	8	7	8	12	15	11	11	14	14	13	13	12	10	9	8	6	6	11.2	16.3
24-May-06	8	6	8	5	4	5	5	5	4	5	7	5	7	11	12	11	11	10	9	10	9	7	6	7	7.3	11.7
25-May-06	6	8	5	7	4	6	9	12	13	16	8	5	5	10	12	16	16	17	15	13	10	8	8	8	9.9	17.3
26-May-06	8	9	8	9	9	7	9	12	12	13	15	13	12	13	11	13	12	11	10	9	6	7	5	3	9.8	14.7
27-May-06	3	7	6	4	3	4	6	4	5	4	4	10	12	8	6	7	8	9	8	9	9	6	7	7	6.5	11.5
28-May-06	5	6	8	7	8	9	10	9	10	9	7	7	8	9	8	10	11	9	6	3	3	4	6	6	7.4	11.1
29-May-06	3	6	8	9	9	11	17	14	15	16	15	15	13	14	13	13	8	5	13	22	20	9	9	6	11.8	21.6
30-May-06	6	5	4	5	9	8	8	7	9	14	16	13	19	9	7	10	16	22	18	17	14	7	8	9	10.8	22.3
31-May-06	8	7	13	9	12	13	10	10	9	10	11	12	12	13	11	10	7	6	5	5	6	6	5	5	8.9	12.8
1-hr Average	7.9	8.1	8.2	8.4	8.5	8.9	9.8	10.6	12.1	13.5	14.7	14.9	14.9	14.8	14.4	14.5	14.6	14.1	14.3	13.3	11.2	9.6	9.2	8.4		
Hourly Max	23.1	28.6	26.8	28.3	26.7	29.3	33.8	27.8	27.4	25.2	29.9	30.4	31.0	35.2	32.0	28.8	27.8	28.5	30.4	31.2	22.9	25.2	24.7	22.4		

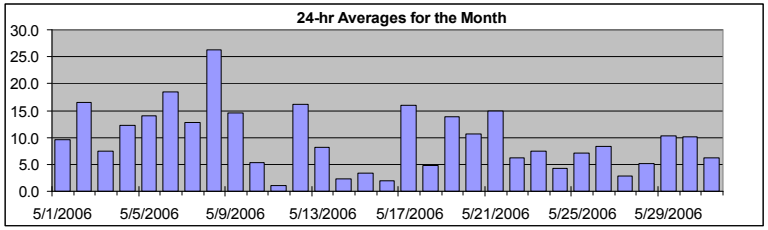
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	34.9	km/hr	8-May	13:00 14:00
Maximum 24-hr Value:	26.3	km/hr	8-May	

Calm Time:	7 hrs	**1%** calms				Operational Time:			737 hrs	
Calibration Time:	0 hrs					AMD Operational Uptime:			100.0%	
Percentile	99	95	75	50	25	5	1			AverageV
	30.1	25.1	15.2	9.0	5.8	2.9	1.6			5.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																									
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-hr Vector	Daily
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	Average	Max
1-May-06	5	6	4	4	4	calm	4	6	9	7	6	6	8	9	6	9	17	20	24	22	18	17	13	17	9.6	23.8
2-May-06	14	14	13	16	17	19	21	22	18	21	25	24	26	23	23	23	21	20	17	13	8	4	3	4	16.5	25.6
3-May-06	4	4	3	3	3	4	5	7	8	7	8	7	5	6	6	4	8	8	11	15	11	15	16	11	7.5	16.1
4-May-06	9	7	8	4	6	11	7	7	12	15	20	23	20	23	24	21	16	14	21	22	11	5	5	5	12.3	23.9
5-May-06	5	9	10	11	12	15	12	13	18	22	23	24	25	19	18	19	23	26	20	13	6	4	4	9	14.1	25.6
6-May-06	11	8	9	11	11	10	8	18	19	22	23	24	27	22	28	26	27	28	30	31	23	15	10	6	18.4	31.0
7-May-06	7	4	6	5	4	2	4	3	8	16	23	27	30	31	23	19	17	10	14	10	15	22	25	22	12.8	31.1
8-May-06	23	29	27	28	27	29	34	28	27	23	30	30	31	35	32	28	27	28	27	25	21	25	22	20	26.3	34.9
9-May-06	19	19	19	21	18	16	13	18	22	21	19	20	19	16	14	13	13	10	8	8	12	11	11	10	14.5	22.1
10-May-06	6	1	3	2	2	2	calm	6	7	8	8	5	6	6	6	4	9	7	9	10	8	7	6	5	5.4	9.7
11-May-06	5	7	6	5	4	3	3	4	3	7	10	9	8	8	7	7	6	9	7	1	5	5	18	14	1.1	18.0
12-May-06	14	10	10	9	10	12	19	23	26	25	23	21	20	23	20	23	22	21	20	17	16	9	9	12	16.1	25.9
13-May-06	10	9	6	10	10	7	10	9	12	12	16	9	4	3	7	6	5	9	8	10	6	6	4	3	8.2	16.3
14-May-06	1	3	6	7	4	2	6	7	7	6	6	4	4	5	5	2	3	2	8	10	6	calm	5	2	2.3	9.7
15-May-06	3	4	3	4	3	5	6	5	3	6	7	5	3	4	4	7	4	8	7	6	7	8	7	5	3.3	7.9
16-May-06	2	4	4	5	4	2	5	6	6	5	5	4	5	5	4	4	3	2	calm	4	6	4	11	8	1.9	11.2
17-May-06	5	2	calm	4	7	10	13	14	19	24	25	24	22	22	27	29	27	27	24	21	16	14	9	8	16.0	28.5
18-May-06	5	3	3	3	1	6	4	3	9	16	15	15	17	16	14	13	8	7	11	9	7	8	9	7	4.8	17.0
19-May-06	8	7	5	6	8	8	11	14	17	18	17	21	18	18	15	16	18	16	21	23	20	17	5	7	13.9	23.2
20-May-06	8	10	15	16	14	15	14	14	12	13	12	12	12	13	11	10	9	8	8	10	8	7	5	3	10.6	15.6
21-May-06	6	12	10	9	7	12	13	12	16	16	20	20	18	20	21	21	23	27	25	16	14	6	8	6	14.8	26.7
22-May-06	5	5	3	calm	4	2	1	2	4	4	7	10	10	8	10	11	13	13	13	11	12	14	5	13	6.2	13.6
23-May-06	14	13	11	13	16	12	10	8	4	8	11	15	11	11	14	14	13	13	12	10	9	8	6	6	7.4	16.2
24-May-06	7	6	7	5	3	4	5	4	3	4	6	calm	6	10	11	11	11	9	9	10	9	7	6	6	4.3	11.2
25-May-06	3	7	1	7	2	6	9	11	13	15	7	4	5	9	12	16	15	17	15	12	10	8	8	8	7.1	17.1
26-May-06	8	9	8	9	9	7	9	11	12	12	14	13	11	13	11	13	12	10	10	9	6	7	5	3	8.3	14.5
27-May-06	1	7	6	4	3	4	5	3	5	2	2	8	7	6	4	5	7	8	8	9	8	6	7	7	2.9	8.6
28-May-06	5	6	8	7	8	9	9	8	10	8	6	6	7	6	6	5	4	8	5	2	2	3	5	6	5.1	9.9
29-May-06	2	5	7	9	9	11	17	14	15	16	15	15	12	14	12	11	8	4	13	21	20	9	8	6	10.2	21.0
30-May-06	6	4	2	4	8	8	8	7	8	14	15	13	18	5	5	9	15	22	18	17	14	7	8	9	10.1	21.9
31-May-06	8	7	12	9	11	13	10	10	9	10	11	11	10	11	9	8	6	5	3	4	5	6	5	5	6.2	12.5
1-hr Vector	3.4	3.6	4.1	4.4	4.3	5.0	5.7	6.3	6.8	7.5	8.0	7.2	7.8	7.0	6.7	7.0	7.0	5.8	6.5	5.4	3.6	2.4	4.1	3.3		
Hourly Max	23.0	28.5	26.7	28.2	26.7	29.2	33.7	27.6	26.9	25.0	29.8	30.3	30.8	34.9	31.7	28.5	27.5	28.3	30.0	31.0	22.7	25.1	24.6	22.3		

PASZA - Henry Pirker - Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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																		
	350.4	327.7	282.6	244.0	113.5	42.2	10.0	270 deg																		

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-06	328	310	321	311	311	330	231	246	304	311	360	337	322	350	335	305	310	301	295	294	271	264	276	267	299	WNW
2-May-06	253	260	261	268	278	287	285	286	288	293	292	293	290	298	299	287	297	296	305	306	326	39	309	293	289	WNW
3-May-06	317	295	304	257	271	288	250	214	209	207	194	214	210	226	180	228	207	217	238	263	242	245	257	241	235	SW
4-May-06	233	240	272	282	245	242	217	210	238	247	279	287	270	264	266	251	244	197	252	249	236	205	150	177	250	WSW
5-May-06	206	217	233	230	235	237	235	236	234	237	240	237	253	248	242	239	270	285	286	292	303	291	280	225	249	WSW
6-May-06	235	225	226	231	234	229	235	246	239	252	249	245	267	251	244	245	265	252	254	255	249	244	230	191	247	WSW
7-May-06	159	113	108	130	143	203	294	289	235	240	266	268	261	258	252	253	253	211	264	213	208	242	244	246	245	WSW
8-May-06	247	243	242	244	244	244	251	262	273	267	272	273	279	285	282	289	290	285	282	277	261	247	248	254	265	W
9-May-06	250	245	245	244	245	244	242	275	291	291	298	292	283	291	286	306	294	301	316	262	260	245	250	244	271	W
10-May-06	263	136	148	214	166	248	199	203	202	194	204	182	215	181	219	200	242	212	252	247	245	256	293	307	222	SW
11-May-06	307	297	313	312	274	308	287	237	69	79	113	100	114	104	86	175	164	76	135	251	68	112	288	320	98	E
12-May-06	322	309	310	312	300	270	248	244	246	255	261	270	268	267	266	275	278	281	280	253	247	232	226	226	266	W
13-May-06	226	238	294	259	248	225	232	239	250	264	254	227	235	172	216	190	187	243	213	203	224	236	239	193	232	SW
14-May-06	275	238	235	267	293	253	253	235	234	238	218	201	229	251	277	10	166	97	79	82	96	233	327	331	239	WSW
15-May-06	293	303	292	279	310	308	315	282	211	101	91	91	75	102	48	29	30	13	24	41	58	51	58	75	36	NE
16-May-06	357	287	305	319	299	7	70	88	131	138	149	142	86	75	76	36	27	118	267	69	78	114	225	175	100	E
17-May-06	198	158	24	292	243	239	248	249	271	275	272	271	277	278	274	278	274	275	280	290	285	294	287	274	274	W
18-May-06	299	272	251	288	207	259	270	238	296	286	286	278	307	309	315	325	332	31	68	70	64	78	86	80	315	NW
19-May-06	67	85	70	56	52	68	77	80	86	88	94	110	99	96	96	69	55	61	98	88	80	88	101	68	84	E
20-May-06	67	68	75	79	78	83	87	94	106	106	121	103	101	104	107	100	94	97	105	109	105	104	108	150	96	E
21-May-06	231	247	239	256	262	276	263	239	237	226	226	234	230	234	242	246	249	256	250	246	255	201	190	219	242	WSW
22-May-06	183	254	309	136	154	313	302	302	22	44	65	94	94	67	76	56	55	55	46	38	45	45	83	43	58	ENE
23-May-06	65	57	28	42	52	66	61	51	37	325	313	312	313	286	287	302	318	328	348	343	338	346	318	284	353	N
24-May-06	310	323	337	332	263	283	288	295	35	112	116	26	75	71	91	88	84	70	63	61	63	54	21	25	49	NE
25-May-06	60	79	246	268	270	222	259	283	272	289	336	43	10	7	1	341	341	350	353	350	347	340	344	4	333	NNW
26-May-06	357	345	328	329	338	328	317	339	354	6	354	355	8	8	23	18	23	37	56	69	62	91	84	31	8	N
27-May-06	225	326	336	329	327	332	317	265	254	243	10	114	15	346	99	96	43	88	84	85	85	80	97	98	50	NE
28-May-06	96	90	80	89	87	104	111	117	119	125	148	126	132	136	72	33	147	88	67	261	249	173	254	310	109	ESE
29-May-06	249	207	233	244	257	302	307	303	289	290	299	306	299	291	296	311	11	34	292	254	270	277	250	297	287	WNW
30-May-06	290	319	256	221	238	233	243	247	233	249	274	278	284	294	271	272	266	260	264	250	250	227	229	233	259	W
31-May-06	239	254	255	298	267	259	270	232	239	243	239	241	255	230	233	302	289	315	285	48	69	83	69	90	257	WSW
Hourly Avg	263	264	271	270	262	261	262	257	258	261	266	265	275	274	273	286	286	291	287	275	271	247	255	258		

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

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2006 to June 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
	60.4	46.5	20.5	11.3	7.5	4.9	3.9

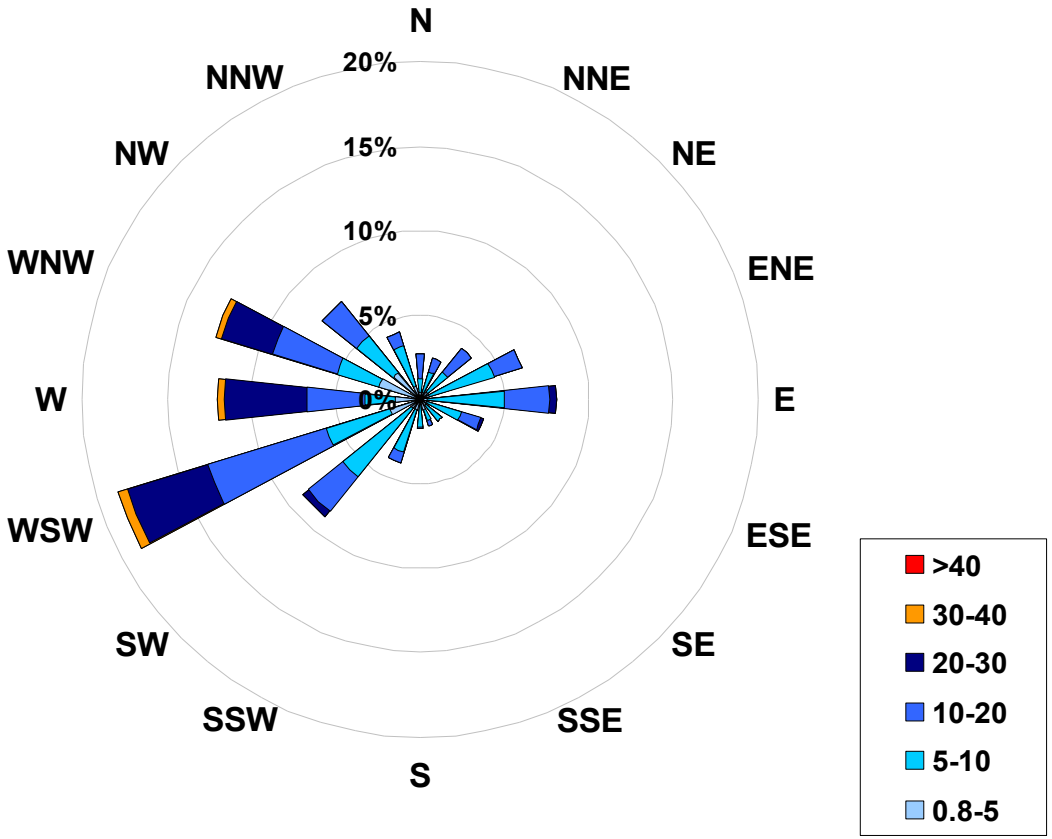
Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	10	8	14	12	16	45	22	13	11	27	30	39	33	34	60	33	16	11	5	5	5	7	5	5	59.6
2-May-06	7	7	10	5	4	5	4	5	10	7	10	7	8	14	11	12	11	9	10	7	10	16	28	29	28.9
3-May-06	19	16	57	17	21	14	24	13	16	18	27	28	46	56	64	64	39	22	15	7	6	3	5	6	64.4
4-May-06	7	10	10	47	7	5	10	11	9	10	11	9	18	13	11	10	10	10	12	7	5	14	5	6	47.2
5-May-06	6	5	6	6	8	7	6	7	10	7	8	11	9	9	16	12	10	7	6	5	13	9	10	6	15.8
6-May-06	6	6	6	5	6	6	7	7	10	8	10	11	12	11	9	8	10	7	8	6	6	5	5	10	12.2
7-May-06	3	9	9	12	17	61	18	26	18	14	11	11	9	10	13	14	13	17	15	18	7	14	5	5	61.4
8-May-06	6	4	4	5	4	4	5	5	7	5	4	5	5	6	6	8	7	6	5	4	5	10	4	4	9.6
9-May-06	4	4	4	3	4	5	6	8	9	11	11	11	12	17	18	19	19	23	21	18	6	10	5	6	22.8
10-May-06	18	35	20	16	41	23	22	12	16	20	18	41	45	50	46	55	22	32	22	10	7	8	9	13	55.2
11-May-06	14	8	16	41	23	11	31	16	33	31	20	28	33	41	32	30	30	23	24	23	17	32	10	8	41.0
12-May-06	5	7	5	7	7	6	6	6	5	5	5	6	7	6	6	6	6	6	5	5	4	6	5	5	7.3
13-May-06	5	7	18	11	8	12	8	9	11	13	14	27	61	54	48	30	50	20	16	9	8	13	32	38	60.6
14-May-06	38	21	9	9	22	28	15	11	19	26	31	46	53	41	40	51	54	44	21	12	7	38	26	40	54.0
15-May-06	25	25	22	19	15	13	9	12	27	21	27	54	43	71	64	30	60	25	20	18	8	11	12	10	71.4
16-May-06	18	17	16	11	13	22	14	16	27	37	35	50	44	47	57	48	45	49	59	34	14	30	21	13	58.6
17-May-06	22	39	55	29	29	7	5	6	7	7	8	9	11	12	8	7	8	7	4	4	6	6	6	8	55.5
18-May-06	17	42	20	18	34	8	10	27	20	13	14	15	17	14	18	13	24	23	11	10	8	6	6	7	41.9
19-May-06	7	10	13	17	10	6	8	8	8	7	12	10	13	13	15	15	8	11	8	8	7	6	57	10	56.6
20-May-06	8	8	6	5	6	6	6	8	8	9	10	10	8	8	9	9	9	10	9	10	8	10	12	23	22.5
21-May-06	19	8	7	9	11	6	7	9	9	13	12	11	14	14	15	9	11	7	7	9	7	13	11	13	19.4
22-May-06	13	21	27	48	13	31	50	38	33	45	29	21	20	31	23	20	18	13	11	12	9	9	33	10	50.4
23-May-06	8	9	13	11	8	14	23	28	46	10	9	7	12	11	8	11	12	11	9	9	9	8	11	10	46.5
24-May-06	12	12	9	14	21	15	15	23	46	44	30	44	29	20	16	12	15	14	11	10	9	12	15	13	45.8
25-May-06	28	10	28	8	61	9	8	7	13	7	19	32	28	19	15	10	10	8	7	7	8	7	8	11	61.2
26-May-06	6	7	6	6	6	7	7	6	6	8	7	6	11	11	14	14	15	13	12	10	13	10	11	16	15.6
27-May-06	37	8	6	11	14	7	10	23	24	62	33	15	16	24	53	47	28	24	21	13	7	5	16	5	61.7
28-May-06	8	9	4	6	6	7	11	17	16	30	40	37	38	39	38	31	50	16	31	49	39	21	27	9	50.3
29-May-06	32	12	8	7	6	6	5	7	7	8	9	13	13	13	16	23	19	45	22	12	6	18	14	12	44.6
30-May-06	8	14	16	17	12	11	9	11	12	11	14	12	16	46	41	25	18	10	10	6	5	8	6	6	45.7
31-May-06	8	15	12	10	19	6	9	9	13	14	17	21	27	20	27	38	42	33	35	50	10	6	10	6	50.2
Hourly Max	38	42	57	48	61	61	50	38	46	62	40	54	61	71	64	64	60	49	59	50	39	38	57	40	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	104
5	to	10	292
10	to	20	235
20	to	30	104
30	to	40	9
	>	40	0
Total Non-Zero Values			744

PASZA - Smoky Heights

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

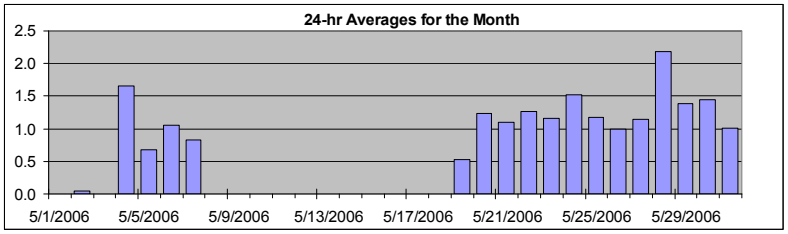
Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	8.6	ppb	3-May	8:00 9:00
Maximum 24-hr Average:	2.2	ppb	28-May	



AIC Time:	34 hrs	Operational Time:	445 hrs
Calibration Time:	15 hrs	AMD Operational Uptime:	66.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	4.8	3.1	1.3	1.1	0.7	0.0	0.0	1.2 ppb	1.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	D	D	D	D	D	D	D	D	0	5	3	0	D	D	0	0	6	A	0	0	0	0	0	0	N	6.1
2-May-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0.0	0.7
3-May-06	D	D	D	D	D	D	D	0	9	5	3	5	3	2	2	A	2	2	3	3	4	3	2	1	N	8.6
4-May-06	1	0	0	0	0	0	0	1	2	3	4	3	3	3	A	3	3	2	2	2	3	2	1	0	1.7	4.2
5-May-06	0	0	0	0	1	0	1	0	0	1	4	1	1	A	1	1	2	1	0	0	0	0	0	1	0.7	4.0
6-May-06	0	0	0	0	0	0	0	1	5	0	0	2	A	3	1	4	4	1	1	1	0	0	0	0	1.1	5.0
7-May-06	0	0	0	0	0	0	0	0	1	2	2	A	1	1	3	2	1	1	1	1	1	0	0	0	0.8	2.8
8-May-06	0	0	0	0	0	0	0	0	0	0	A	C	C	C	C	C	S	S	S	S	S	S	S	S	N	0.0
9-May-06	S	S	S	S	S	S	S	S	S	S	C	C	C	C	D	D	D	D	D	D	D	D	D	D	N	0.0
10-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
11-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
12-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
13-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
14-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
15-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
16-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
17-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	M	M	N	0.0
18-May-06	M	M	M	M	M	M	M	M	M	C	C	C	C	C	C	A	1	1	1	1	0	0	0	0	N	1.0
19-May-06	0	D	D	0	D	A	0	0	0	0	0	0	D	1	1	1	1	1	1	1	1	1	1	1	0.5	1.0
20-May-06	1	1	1	1	A	1	1	2	2	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.7
21-May-06	1	1	1	A	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.2
22-May-06	1	1	A	1	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.2
23-May-06	1	A	1	1	1	1	A	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1.2	2.0
24-May-06	A	1	1	1	A	1	1	1	2	2	4	3	2	1	1	1	1	1	1	1	1	1	1	A	1.5	4.2
25-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	1.4
26-May-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	1.1
27-May-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	1.5
28-May-06	1	1	1	A	A	1	1	7	4	4	3	3	2	2	2	1	1	1	2	3	1	1	1	1	2.2	6.8
29-May-06	1	A	1	A	1	1	1	1	1	1	2	3	1	1	2	1	1	1	1	1	1	1	1	1	1.4	3.2
30-May-06	A	1	A	1	1	1	3	2	1	2	1	1	4	1	1	1	1	1	1	1	1	1	A	1	1.4	3.9
31-May-06	1	A	1	1	1	1	1	2	2	1	1	1	1	2	1	1	1	1	1	1	A	1	0	0	1.0	2.5
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	1.2	1.2	1.4	1.2	1.1	1.3	2.6	6.8	8.6	5.3	4.2	4.5	3.9	2.8	2.8	4.4	6.1	2.2	2.5	3.2	4.0	3.0	2.3	1.3		

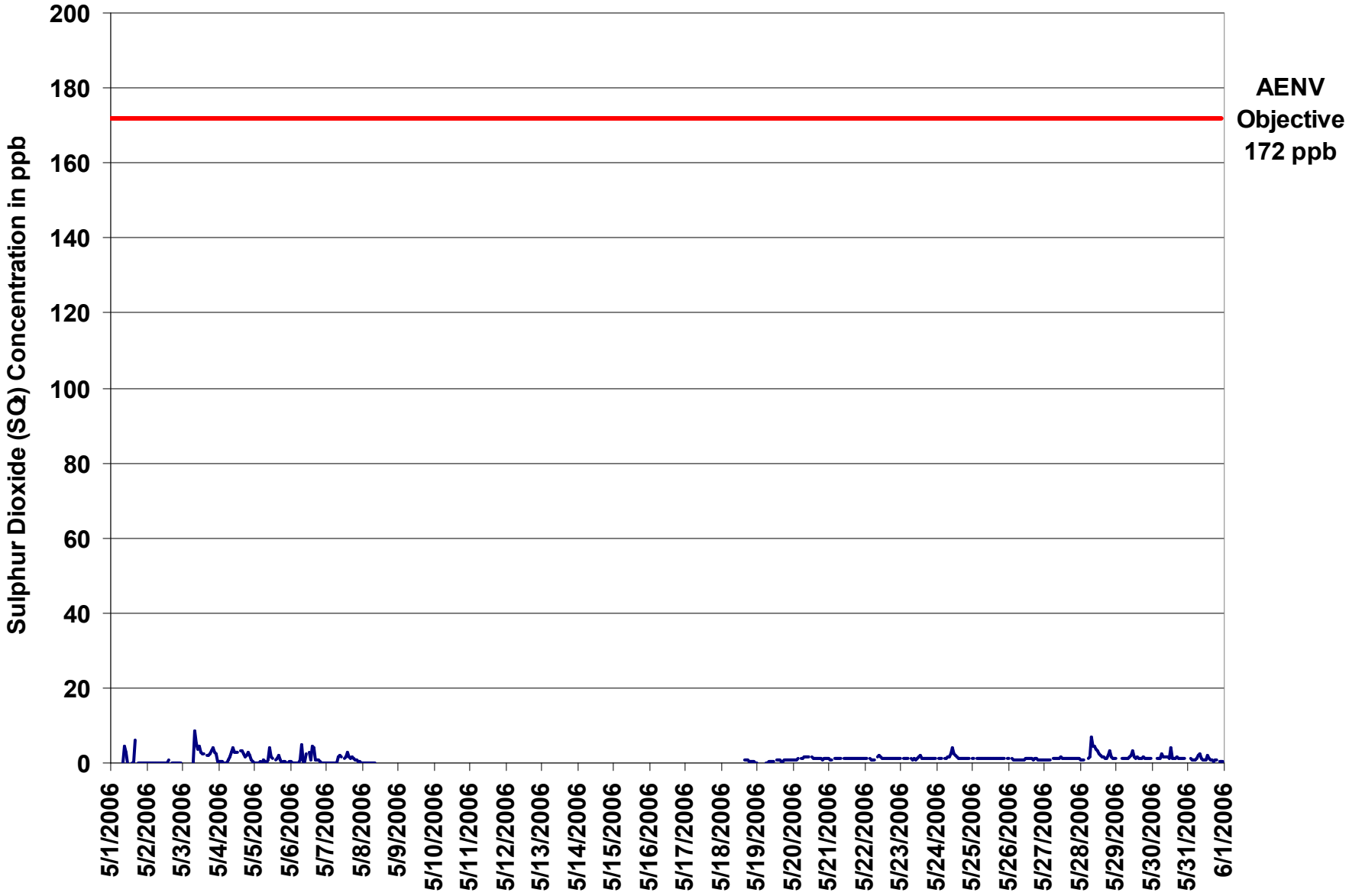


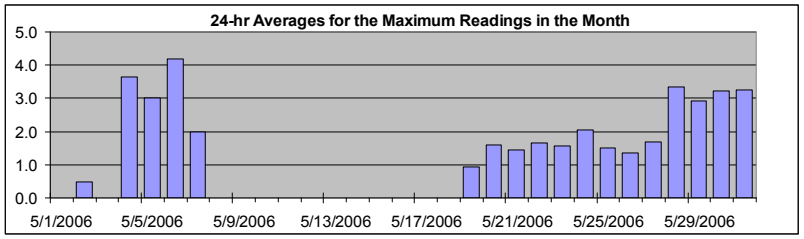
Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	23.6	ppb	31-May	2:00 3:00
Maximum 24-hr Value:	4.2	ppb	6-May	

AIC Time:	34 hrs	Operational Time:	445 hrs
Calibration Time:	15 hrs	AMD Operational Uptime:	66.4%

Percentile	99	95	75	50	25	5	1	Average	Median
	17.5	7.1	1.9	1.5	1.3	0.0	0.0	2.3 ppb	1.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	D	D	D	D	D	D	D	D	0	13	9	0	D	D	0	0	13	A	1	0	0	1	1	0	N	13.2
2-May-06	0	0	0	0	0	0	0	0	0	2	0	1	1	1	1	2	A	1	1	1	0	0	0	0	0.5	2.1
3-May-06	D	D	D	D	D	D	D	6	10	7	5	6	4	3	3	A	3	4	3	4	6	4	4	2	N	10.4
4-May-06	2	1	2	1	0	0	0	3	3	8	21	4	4	4	A	5	4	4	3	4	5	4	2	1	3.6	20.6
5-May-06	1	1	1	1	2	1	2	1	1	3	18	2	3	A	2	6	15	2	2	2	2	1	1	2	3.0	17.9
6-May-06	1	1	1	1	0	0	0	8	17	5	1	11	A	9	2	19	13	2	2	2	2	0	0	0	4.2	19.1
7-May-06	0	0	0	0	0	0	0	2	3	3	5	A	3	3	12	3	2	2	2	2	2	1	1	1	2.0	12.0
8-May-06	1	0	0	0	0	0	4	3	0	0	A	C	C	C	C	C	S	S	S	S	S	S	S	S	N	4.2
9-May-06	S	S	S	S	S	S	S	S	S	S	C	C	C	C	D	D	D	D	D	D	D	D	D	D	N	0.0
10-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
11-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
12-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
13-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
14-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
15-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
16-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	0.0
17-May-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	M	M	N	0.0
18-May-06	M	M	M	M	M	M	M	M	M	C	C	C	C	C	C	A	2	4	1	1	1	1	1	0	N	3.5
19-May-06	1	D	D	0	D	A	0	1	1	1	1	1	D	1	2	1	1	1	1	1	1	1	1	1	0.9	1.7
20-May-06	1	1	1	1	A	2	2	2	2	2	2	A	2	2	2	2	2	1	1	1	1	1	1	1	1.6	2.2
21-May-06	1	1	1	A	1	1	2	1	1	A	1	2	2	1	2	2	1	2	2	1	1	2	2	1	1.5	1.6
22-May-06	1	1	A	1	1	1	1	A	3	3	2	2	2	2	2	1	1	2	2	2	2	2	2	2	1.7	3.0
23-May-06	2	A	2	1	1	1	A	1	1	1	1	1	2	3	2	2	1	2	2	1	1	1	2	1	1.6	2.9
24-May-06	A	2	1	1	A	1	2	2	2	4	7	3	3	2	2	2	2	1	1	1	1	1	2	A	2.1	6.6
25-May-06	1	1	A	2	1	1	1	2	1	2	1	2	2	2	2	2	1	2	1	1	1	1	A	2	1.5	1.9
26-May-06	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.4	1.5
27-May-06	1	1	1	1	1	A	1	2	5	2	2	2	2	2	2	1	1	2	1	1	1	1	2	1	1.7	5.1
28-May-06	1	1	1	A	A	2	3	12	8	5	5	5	3	3	3	2	2	2	5	5	2	1	2	2	3.4	11.5
29-May-06	1	A	1	A	2	1	1	2	2	2	6	13	4	2	4	2	2	2	7	4	1	1	2	2	2.9	13.5
30-May-06	A	2	A	1	1	1	7	6	2	2	2	2	21	3	1	2	5	2	2	2	2	2	A	1	3.2	21.4
31-May-06	1	A	24	1	1	1	2	6	8	1	1	1	1	9	3	3	1	1	1	1	A	1	1	1	3.2	23.6
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	1.6	1.6	23.6	1.6	1.5	1.7	6.5	11.5	16.9	13.0	20.6	13.5	21.4	9.5	12.0	19.1	14.8	3.5	6.9	5.1	5.8	4.1	4.2	2.1		

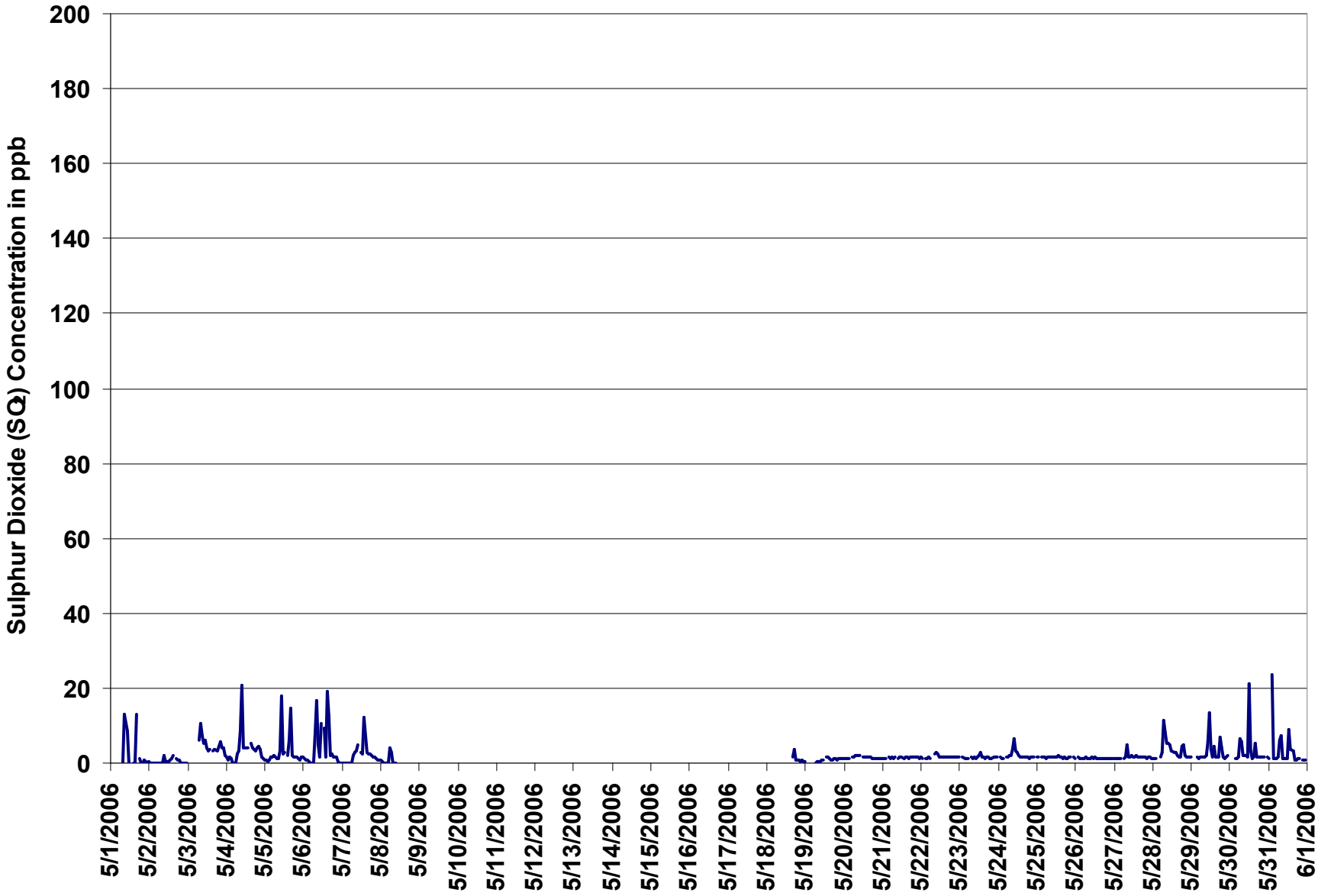
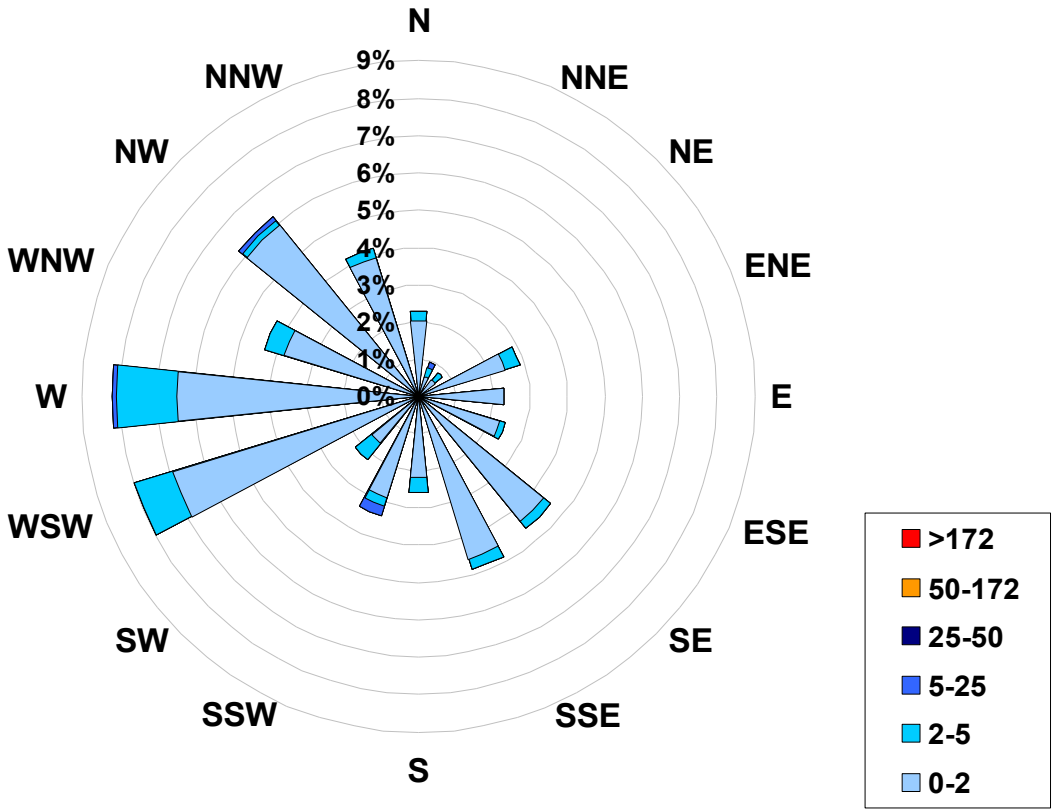


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	390
2	to	5	50
5	to	25	5
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			445

PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary

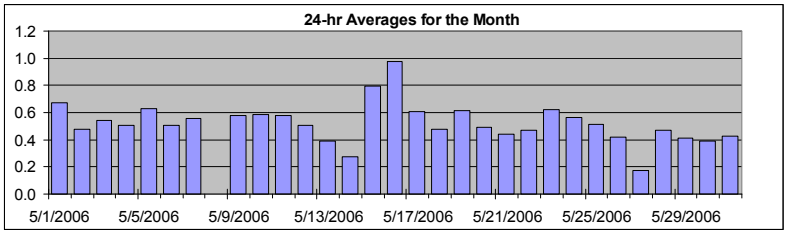
Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2006 to June 1, 2006

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



Summary

Maximum 1-hr Average:	2.2	ppb	16-May	19:00 20:00
Maximum 24-hr Value:	1.0	ppb	16-May	

AIC Time:	35 hrs	Operational Time:	703 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.8	0.6	0.5	0.4	0.2	0.0	0.5 ppb	0.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	A	1	1	1	1	1	1	0.7	1.0
2-May-06	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0	0	A	0	0	0	0	1	0	0	0.5	0.6
3-May-06	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	0	0	0	0	0	0	0	0.5	0.8
4-May-06	0	0	0	0	0	1	1	1	1	1	0	0	1	0	A	1	1	0	0	0	1	1	0	1	0.5	0.6
5-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.6	0.7
6-May-06	1	0	0	0	0	0	0	0	1	1	1	1	A	1	1	1	1	1	0	1	1	1	1	1	0.5	0.6
7-May-06	0	0	0	0	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
8-May-06	1	0	1	1	1	1	1	1	1	1	A	C	C	C	C	C	C	A	1	1	1	1	1	1	N	0.8
9-May-06	1	1	1	1	1	A	1	1	1	1	A	1	1	1	A	A	1	1	0	1	1	1	0	0	0.6	0.7
10-May-06	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
11-May-06	0	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
12-May-06	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.7
13-May-06	1	1	A	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
14-May-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6
15-May-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.5
16-May-06	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	1	2	2	2	2	2	1	A	1	1.0	2.2
17-May-06	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	1	1	A	0	0	0.6	1.6
18-May-06	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	0	1	1	0	1	1	1	0	0.5	0.8
19-May-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	0.7
20-May-06	1	0	0	0	A	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.5	0.8
21-May-06	1	1	0	A	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0.4	0.7
22-May-06	0	0	A	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	1	1	0.5	0.8
23-May-06	0	A	0	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
24-May-06	A	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	A	0.6	0.8
25-May-06	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	A	0	0.5	0.9
26-May-06	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0.4	0.7
27-May-06	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
28-May-06	1	1	0	0	A	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.0
29-May-06	0	0	0	A	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0.4	0.7
30-May-06	1	0	A	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
31-May-06	0	A	0	0	0	0	0	1	0	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0.4	0.6
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5		
Hourly Max	0.9	0.8	0.9	1.0	0.9	0.9	0.9	1.0	1.0	0.8	0.7	0.8	0.8	0.8	1.0	1.3	1.5	1.9	2.0	2.2	2.0	1.3	0.7	0.8		

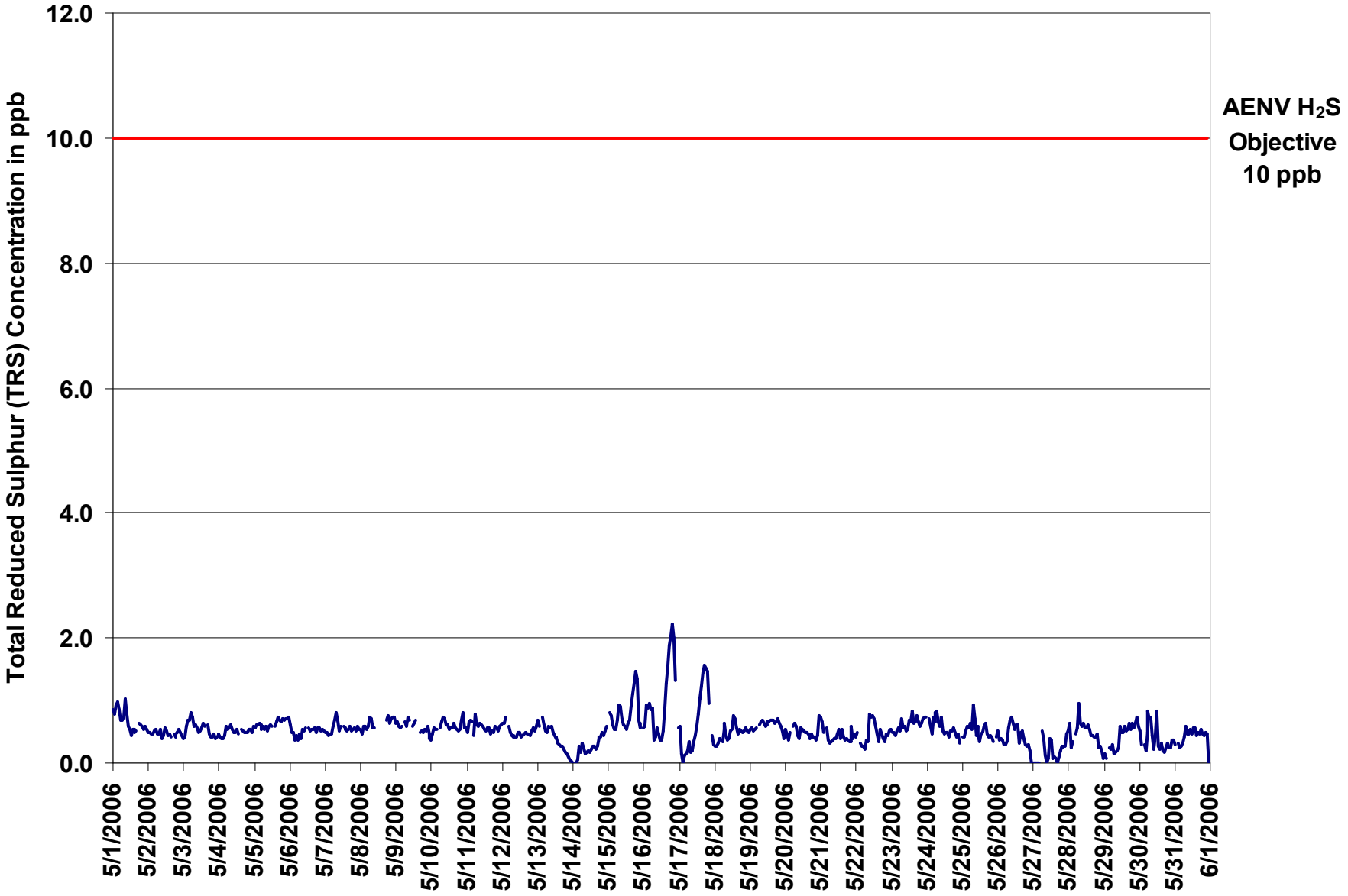


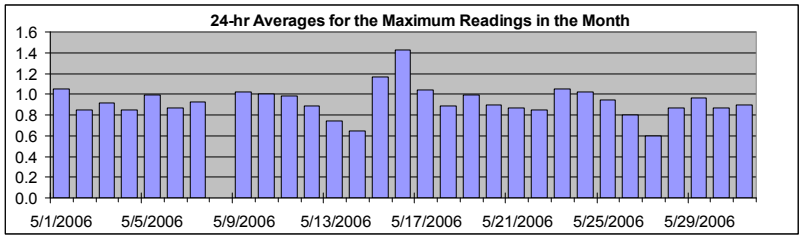
Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	4.1	ppb	29-May	11:00 12:00
Maximum 24-hr Value:	1.4	ppb	16-May	

AIC Time:	35 hrs	Operational Time:	703 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.4	1.0	0.9	0.8	0.5	0.3	0.9 ppb	0.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.5
2-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.0
3-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.3
4-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.0
5-May-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	1.0	1.1
6-May-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
7-May-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
8-May-06	1	1	1	1	1	1	1	1	1	1	A	C	C	C	C	C	C	A	1	1	1	1	2	1	N	2.1
9-May-06	1	1	1	1	1	A	1	1	1	1	A	1	1	1	A	A	1	1	1	1	1	2	1	1	1.0	1.8
10-May-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.0	1.6
11-May-06	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
12-May-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
13-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.0
14-May-06	1	A	0	0	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
15-May-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	A	1.2	1.9
16-May-06	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	2	A	1	1.4	2.5
17-May-06	1	1	0	1	1	0	1	1	0	1	1	1	1	1	2	2	2	2	2	2	2	A	1	1	1.0	2.1
18-May-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.9
19-May-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	1.2
20-May-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	0.9	1.3
21-May-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
22-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
23-May-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	1.1	1.4
24-May-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	1.3
25-May-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	2.0
26-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.8	1.1
27-May-06	0	0	0	0	0	A	2	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0.6	1.6
28-May-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9	1.4
29-May-06	0	1	1	A	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1.0	4.1
30-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
31-May-06	1	A	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0.9	1.5
Hourly Avg	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.0	0.9	0.9	1.0	0.9	1.0	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.8		
Hourly Max	1.3	1.3	1.8	1.4	1.4	1.4	1.6	2.0	1.5	1.3	1.2	4.1	1.1	1.5	1.5	1.7	1.9	2.4	2.4	2.5	2.5	2.0	2.1	1.2		

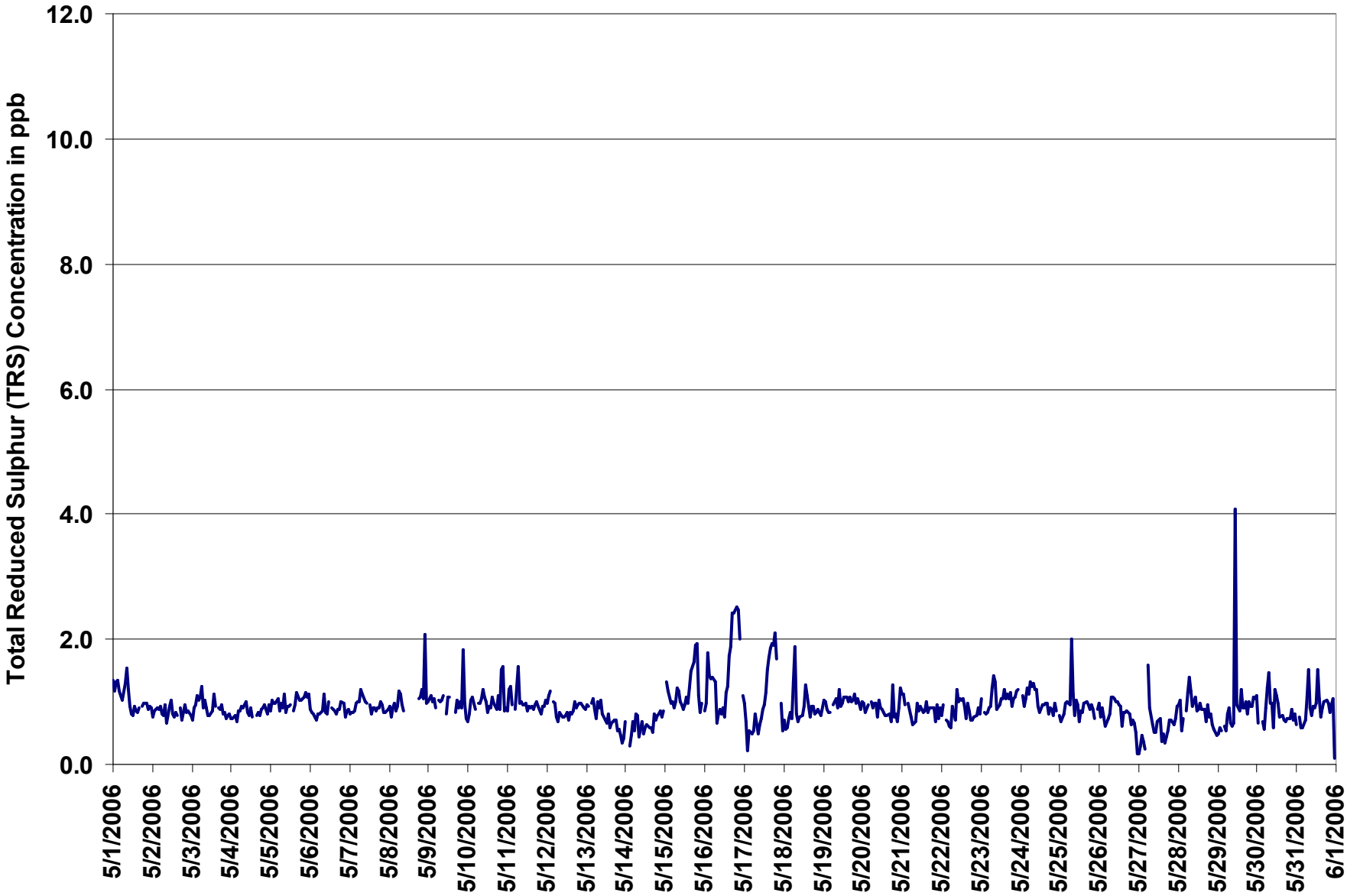
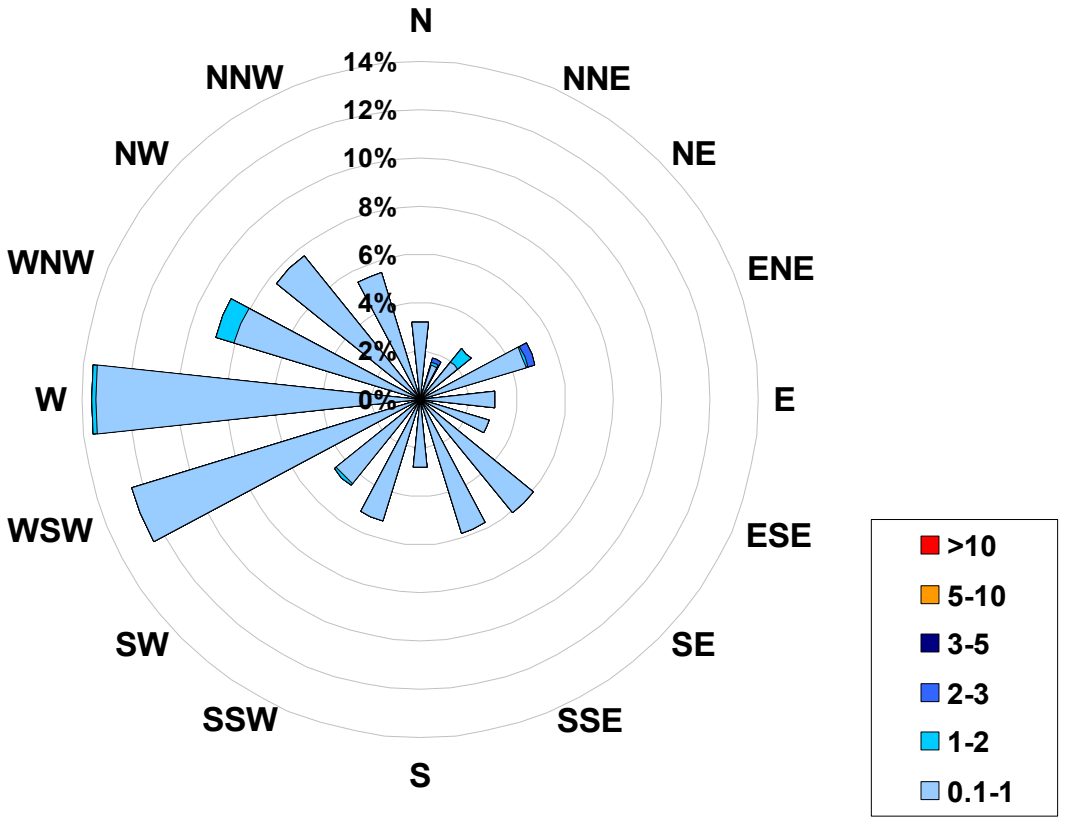


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	685
1	to	2	15
2	to	3	3
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			703

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

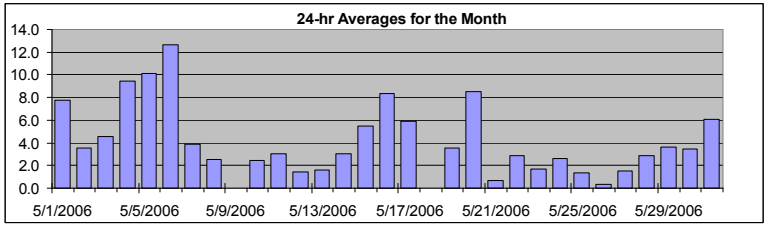
Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 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:	48.6	µg/m³	6-May	13:00 14:00
Maximum 24-hr Value:	12.6	µg/m³	6-May	

AIC Time:	0 hrs	Operational Time:	722 hrs
Calibration Time:	9 hrs	AMD Operational Uptime:	98.3%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	22.8	13.5	5.5	2.9	1.2	0.0	0.0	4.3	3 µg/m˜	3.3 µg/m˜

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	4	6	5	5	4	5	18	21	23	12	4	3	4	4	11	6	10	6	5	8	11	4	3	3	7.8	23.4
2-May-06	3	0	1	2	2	6	6	4	4	4	3	5	3	2	2	3	2	2	3	3	6	7	7	6	3.6	7.4
3-May-06	7	7	8	6	5	8	10	11	5	2	0	0	0	3	1	0	1	4	3	5	10	6	5	2	4.6	10.8
4-May-06	2	2	3	2	3	4	7	10	14	14	17	7	12	20	16	19	15	4	9	8	8	9	9	12	9.4	20.2
5-May-06	13	14	5	4	5	6	13	13	10	13	23	17	17	8	5	6	16	4	3	5	5	12	18	10	10.2	23.2
6-May-06	6	5	4	5	5	5	10	15	24	6	18	23	20	49	21	31	14	8	7	14	4	2	1	6	12.6	48.6
7-May-06	7	5	6	5	4	8	5	7	3	0	1	0	0	9	3	0	3	4	4	8	4	2	4	0	3.9	8.8
8-May-06	1	6	3	1	4	3	9	2	5	3	6	1	1	D	0	0	0	0	0	1	7	2	3	0	2.5	9.4
9-May-06	1	1	1	1	1	1	2	2	0	4	0	C	C	C	C	C	C	C	C	C	0	0	D	0	N	4.2
10-May-06	0	0	0	0	0	1	2	2	5	2	0	0	0	0	1	1	3	3	3	5	10	12	4	4	2.4	12.2
11-May-06	3	2	2	2	3	4	7	10	6	0	1	0	0	0	0	3	4	1	4	5	3	3	5	3	3.0	10.3
12-May-06	3	3	2	2	2	4	1	0	0	0	0	1	2	2	2	3	2	0	1	1	1	2	0	0	1.4	3.8
13-May-06	0	1	2	2	2	3	3	0	0	0	1	0	1	0	1	2	1	2	2	2	3	4	3	4	1.6	4.5
14-May-06	7	4	5	4	2	3	3	3	1	1	0	0	1	1	2	2	2	3	3	3	4	6	7	6	3.0	6.8
15-May-06	6	6	6	5	5	8	13	12	14	2	2	2	4	2	3	3	3	3	4	4	7	8	5	6	5.5	13.7
16-May-06	7	5	6	6	6	7	13	5	9	10	9	8	4	6	7	4	5	4	D	0	13	42	15	0	8.4	41.6
17-May-06	0	2	3	3	3	5	13	16	10	9	10	14	8	5	9	6	6	4	4	2	3	2	2	4	5.9	16.2
18-May-06	4	5	4	4	6	10	22	20	9	8	7	3	M	M	M	M	M	M	D	0	2	2	2	2	N	22.1
19-May-06	3	3	2	2	2	1	2	3	2	2	2	2	3	4	5	5	4	5	13	3	4	4	5	6	3.6	12.8
20-May-06	5	4	0	0	2	10	8	4	3	4	8	7	10	10	15	25	17	12	10	8	10	10	11	13	8.5	25.1
21-May-06	4	2	1	0	0	D	0	0	D	0	0	0	0	0	0	0	0	0	1	0	1	1	3	0	0.7	4.2
22-May-06	2	3	1	3	3	5	5	6	2	1	3	2	2	2	3	2	3	3	3	3	3	5	2	3	2.8	5.9
23-May-06	4	7	1	2	1	1	0	0	2	3	3	1	2	1	1	0	1	1	4	2	1	1	2	0	1.7	7.3
24-May-06	2	3	1	2	1	3	2	2	1	2	6	4	5	4	2	3	0	2	3	2	2	1	4	3	2.6	5.6
25-May-06	3	0	2	2	2	3	4	2	2	1	4	2	1	1	0	0	0	0	0	1	1	2	1	0	1.4	3.6
26-May-06	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	0.3	1.4
27-May-06	0	1	1	0	0	3	10	2	0	0	1	2	0	6	1	1	0	0	0	1	2	2	1	2	1.5	9.9
28-May-06	2	1	0	1	1	6	6	3	2	3	2	1	0	0	0	7	14	0	0	5	4	4	4	2	2.8	14.0
29-May-06	1	3	4	3	3	4	3	3	3	3	6	6	4	4	4	4	8	6	3	7	2	1	3	2	3.7	7.7
30-May-06	2	0	3	4	4	3	12	5	4	3	4	3	5	6	D	0	0	2	4	3	4	3	2	2	3.5	12.4
31-May-06	3	2	3	2	2	5	10	10	9	7	5	4	5	11	5	5	5	5	4	8	10	9	9	9	6.1	11.2
Hourly Avg	3.4	3.4	2.7	2.6	2.7	4.5	7.1	6.3	5.7	3.9	4.6	4.0	3.9	5.9	4.3	4.9	4.8	3.1	3.5	3.9	4.7	5.4	4.6	3.6		
Hourly Max	13.4	14.0	8.0	6.3	6.3	9.8	22.1	20.7	24.5	14.1	23.2	23.0	20.3	48.6	21.1	30.9	16.6	12.3	12.8	13.6	13.3	41.6	18.3	12.6		

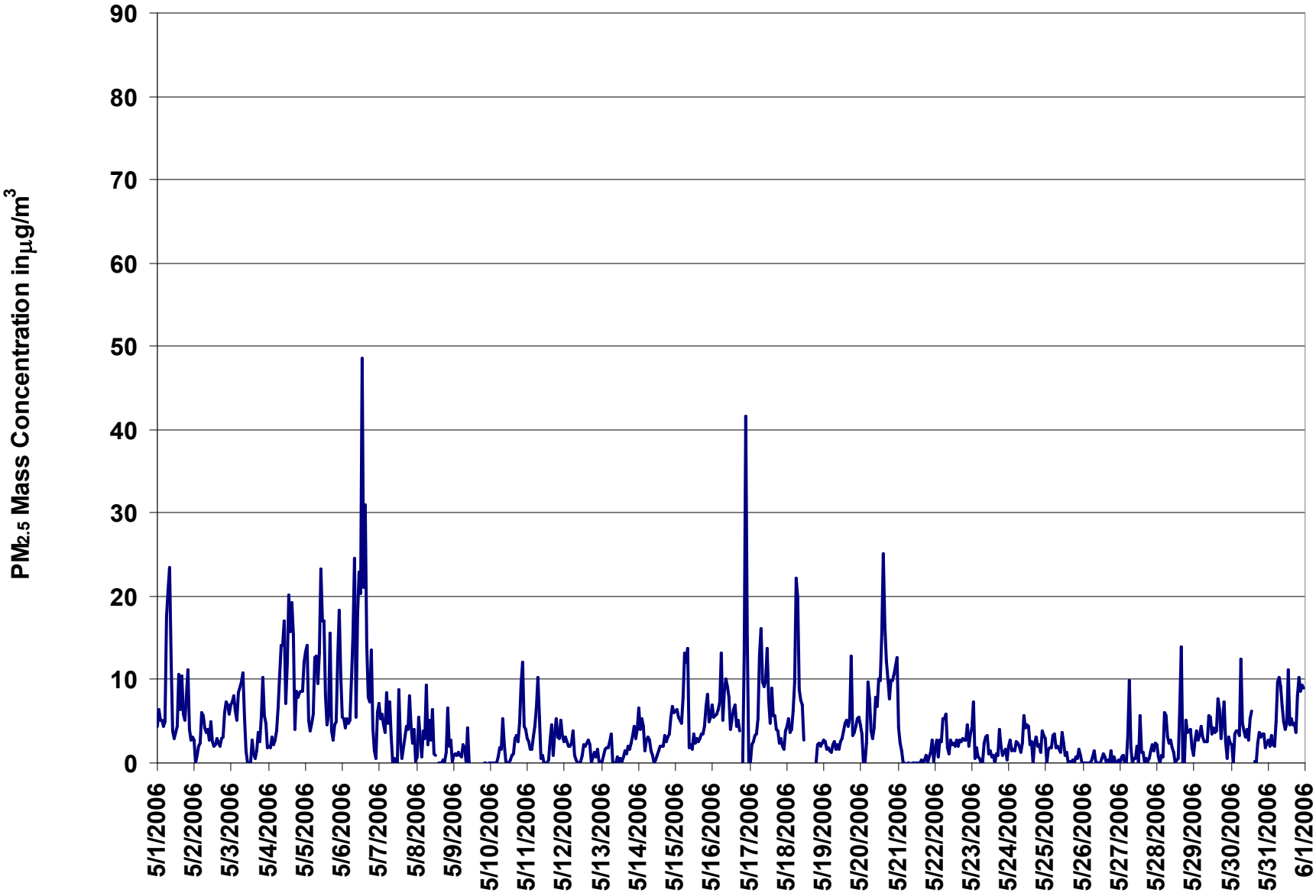


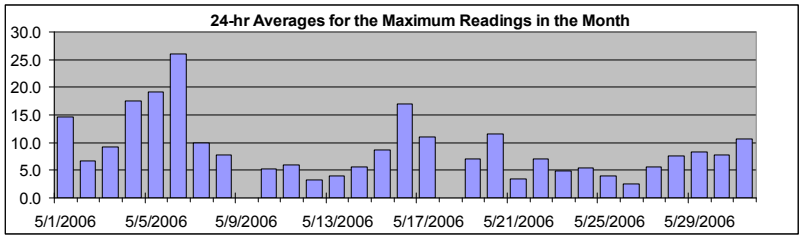
Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	94.0	µg/m³	6-May	13:00 14:00
Maximum 24-hr Value:	26.0	µg/m³	6-May	

AIC Time:	0 hrs	Operational Time:	722 hrs
Calibration Time:	9 hrs	AMD Operational Uptime:	98.3%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	45.8	25.5	10.1	6.1	3.9	1.8	0.3	8.8 / 6 µg/m˘	7.6 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	7	8	8	8	7	10	38	39	40	27	6	6	7	7	29	12	26	10	7	12	20	6	5	5	14.6	40.4
2-May-06	5	2	3	4	6	9	9	8	8	10	6	14	7	6	5	6	5	4	5	4	10	9	11	9	6.8	13.9
3-May-06	9	10	9	9	8	12	13	22	19	5	4	3	3	10	7	3	4	6	5	10	20	18	7	4	9.2	21.7
4-May-06	4	3	6	6	6	8	12	26	17	34	45	16	17	41	25	27	27	9	21	14	13	12	12	17	17.5	45.1
5-May-06	20	22	11	11	7	8	18	18	13	21	46	35	32	16	11	26	43	8	8	8	7	22	27	23	19.2	46.1
6-May-06	9	8	6	7	7	9	17	26	46	15	27	44	49	94	40	73	68	15	13	23	6	4	3	16	26.0	94.0
7-May-06	11	10	10	7	7	15	16	13	8	2	6	7	11	20	14	4	6	17	13	20	8	6	8	3	10.0	20.4
8-May-06	4	11	6	7	7	6	26	13	11	10	14	4	4	D	7	4	2	6	6	5	16	4	6	2	7.8	25.9
9-May-06	2	3	2	3	2	3	5	5	3	16	7	C	C	C	C	C	C	C	C	C	3	0	D	0	N	15.6
10-May-06	0	0	0	1	1	3	5	7	14	4	4	3	3	3	3	3	6	6	6	10	13	17	7	7	5.2	16.7
11-May-06	4	5	3	4	5	6	10	14	10	2	5	2	2	2	2	11	12	3	7	8	6	5	7	6	5.9	14.3
12-May-06	4	6	3	3	4	6	3	2	1	1	3	3	4	4	5	5	7	0	3	3	2	3	2	2	3.3	6.6
13-May-06	2	2	4	4	5	6	7	3	1	2	3	4	3	2	3	4	3	5	4	4	7	7	6	6	4.0	7.0
14-May-06	19	6	7	8	3	5	5	5	3	2	2	2	3	4	5	4	4	6	5	5	6	9	9	8	5.6	19.2
15-May-06	7	9	7	7	6	11	18	20	27	6	4	5	7	4	6	5	6	7	7	8	11	7	8	8.7	26.7	
16-May-06	10	8	8	7	8	9	20	8	14	15	12	15	7	18	19	8	8	8	D	7	22	81	78	3	17.0	80.8
17-May-06	3	4	5	7	9	9	21	29	17	18	17	28	16	7	14	11	12	6	6	5	5	5	6	6	11.1	28.6
18-May-06	7	11	5	7	12	15	29	24	14	12	12	9	M	M	M	M	M	M	D	0	8	5	5	4	N	28.7
19-May-06	6	5	3	4	3	2	4	4	4	5	4	5	5	7	7	7	7	23	26	8	5	6	10	8	7.0	26.0
20-May-06	6	5	2	1	8	12	10	7	5	7	12	10	13	12	20	30	25	15	12	9	13	11	12	19	11.6	29.7
21-May-06	20	7	3	2	2	D	4	2	D	1	1	1	1	2	2	3	1	3	3	2	2	4	5	3	3.4	20.1
22-May-06	5	5	3	5	5	10	10	9	5	4	6	5	5	7	5	4	6	5	6	5	5	20	21	7	7.1	21.3
23-May-06	14	16	6	5	2	3	2	2	5	5	5	4	6	3	3	3	6	7	7	3	3	3	4	2	4.9	16.3
24-May-06	4	4	4	3	4	4	5	4	5	6	10	8	7	7	4	6	3	8	8	4	5	4	6	7	5.4	10.1
25-May-06	5	2	3	4	4	5	6	4	4	4	11	5	4	6	3	2	3	3	1	4	3	3	3	2	4.0	11.5
26-May-06	0	1	0	0	1	1	2	3	2	2	3	2	4	4	4	4	7	3	7	3	3	1	0	2	2.5	7.3
27-May-06	0	2	4	2	2	8	14	9	3	3	7	11	3	19	4	7	4	5	3	5	4	5	5	4	5.6	19.3
28-May-06	6	3	2	3	4	12	12	7	5	5	4	5	3	5	6	22	26	8	5	15	7	8	8	5	7.7	25.5
29-May-06	4	5	7	8	6	6	5	5	5	5	11	18	7	8	9	8	14	10	18	21	6	3	6	5	8.3	21.3
30-May-06	5	3	6	7	5	7	21	11	9	8	7	6	21	17	D	4	7	6	7	6	6	6	3	4	7.9	21.3
31-May-06	4	4	5	3	4	10	14	14	16	16	8	7	10	24	8	10	10	9	12	11	15	14	14	12	10.6	24.0
Hourly Avg	6.7	6.1	4.9	5.0	5.2	7.8	12.2	11.7	11.0	8.8	10.1	9.6	9.1	12.9	9.7	10.9	12.3	7.7	8.2	8.0	8.4	9.9	10.0	6.7		
Hourly Max	20.1	22.2	10.6	10.7	12.3	15.2	38.1	38.6	46.3	34.1	46.1	44.2	49.1	94.0	39.7	73.0	68.1	23.4	26.0	22.6	21.8	80.8	77.7	23.5		

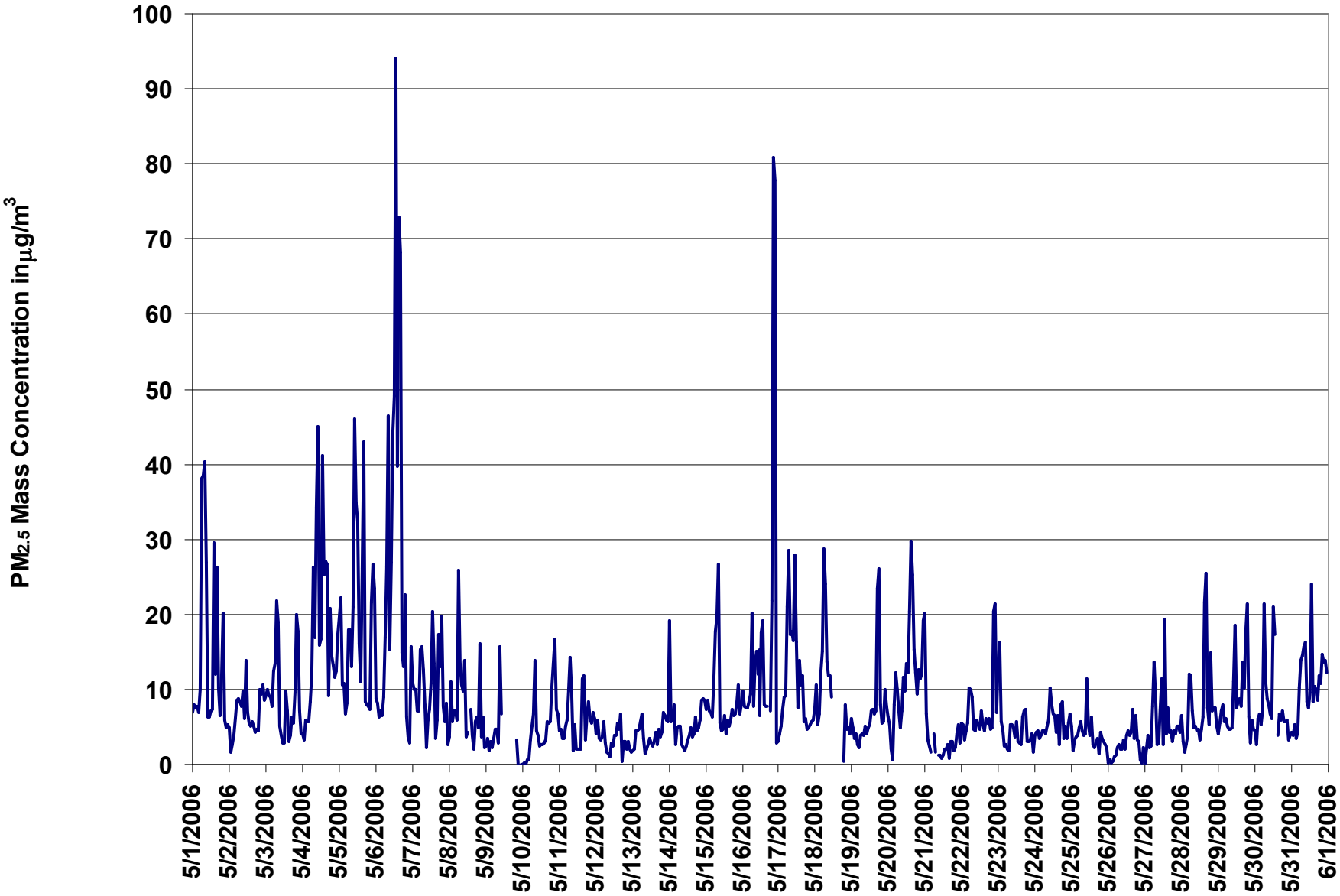
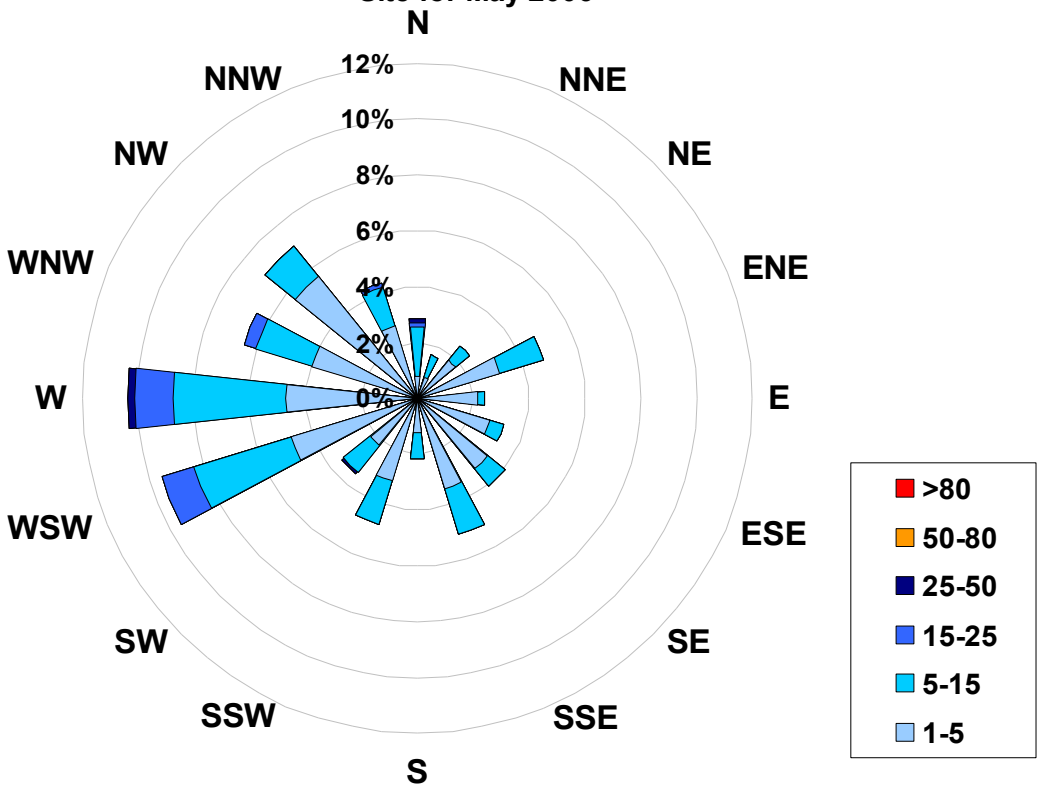


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 May 2006



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	511
5	to	15	183
15	to	25	24
25	to	50	4
50	to	80	0
	>	80	0
Total Non-Zero Values			722

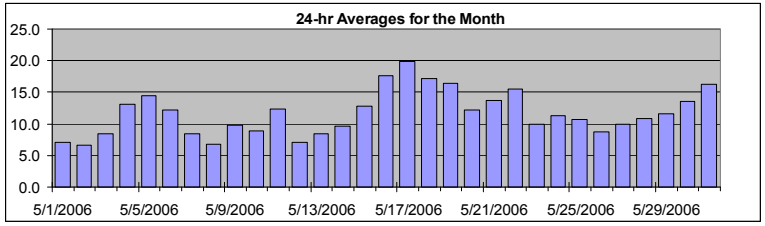
PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	29.5	°C	16-May	17:00 18:00
Maximum 24-hr Value:	19.9	°C	17-May	

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
	26.1	22.7	15.4	11.5	7.6	1.3	-2.2	11.6 °C	11.5 °C

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	3	1	1	0	0	0	2	4	6	9	10	13	13	13	12	12	12	11	11	10	8	7	7	7	7.1	13.0
2-May-06	6	5	5	5	5	5	5	4	5	5	6	7	8	9	9	10	11	11	11	11	8	5	2	0	6.6	11.3
3-May-06	-1	-2	-2	-3	-3	-3	0	3	6	9	11	13	14	15	15	16	17	17	17	16	14	13	12	10	8.4	17.5
4-May-06	9	8	7	5	1	1	3	9	13	16	18	19	20	21	20	20	19	19	20	19	17	12	9	8	13.0	20.6
5-May-06	7	8	8	9	11	11	12	13	16	16	17	18	18	18	19	20	20	20	19	18	15	11	10	13	14.4	19.7
6-May-06	14	13	13	12	11	11	11	12	13	14	14	14	15	15	15	14	14	13	13	12	10	9	7	3	12.2	15.2
7-May-06	1	0	0	0	1	2	4	7	10	12	12	12	13	13	14	14	14	13	14	12	10	9	8	7	8.4	14.2
8-May-06	7	7	5	5	5	4	4	4	3	1	2	3	4	8	10	11	12	12	12	12	10	9	7	7	6.8	12.4
9-May-06	6	5	5	4	4	4	4	6	8	10	11	12	13	14	14	14	15	15	15	14	12	10	9	8	9.7	14.9
10-May-06	5	0	-2	-3	-3	-2	0	4	7	9	12	14	15	16	17	17	17	17	16	15	14	12	10	7	9.0	17.4
11-May-06	9	9	8	5	3	3	6	8	11	14	15	17	18	19	20	18	17	17	16	15	13	13	12	10	12.4	19.6
12-May-06	10	9	8	8	8	8	6	5	5	4	4	4	5	6	6	7	8	9	10	10	9	8	7	6	7.0	10.0
13-May-06	6	5	5	3	-1	-2	1	6	8	9	11	12	13	14	14	14	15	15	14	13	10	7	6	3	8.4	14.6
14-May-06	2	2	1	1	2	0	4	7	9	11	13	13	15	16	16	17	18	18	18	17	14	8	6	4	9.6	18.3
15-May-06	3	2	1	0	-1	0	5	8	11	15	17	18	20	21	22	22	23	23	22	21	18	14	13	10	12.8	22.8
16-May-06	7	5	4	3	2	2	7	11	13	16	19	22	24	26	28	29	29	30	29	28	23	20	23	22	17.6	29.5
17-May-06	21	17	14	12	15	15	16	18	20	22	22	23	23	24	25	25	25	25	23	22	21	19	17	15	19.9	24.9
18-May-06	13	13	13	11	11	10	11	14	17	19	20	21	22	22	23	24	23	23	23	21	17	14	12	11	17.1	23.5
19-May-06	11	9	8	7	6	8	11	14	17	19	21	22	24	25	26	26	24	23	17	16	15	15	14	14	16.4	26.4
20-May-06	12	11	12	12	12	12	12	12	13	13	13	12	13	13	13	13	12	12	12	12	12	12	11	11	12.2	13.2
21-May-06	11	11	11	10	9	9	10	11	12	14	15	16	17	18	18	18	18	17	16	16	15	14	12	11	13.7	18.3
22-May-06	10	9	7	5	4	4	8	12	14	16	18	20	21	21	22	23	23	23	21	20	19	18	17	16	15.5	23.3
23-May-06	16	12	11	10	9	9	8	8	7	8	8	9	9	10	10	12	12	12	11	10	10	9	9	9	9.9	15.8
24-May-06	9	9	8	7	7	8	9	10	11	12	12	13	14	15	15	14	14	14	14	13	12	12	10	10	11.3	15.2
25-May-06	9	9	9	9	9	9	9	10	10	11	11	11	12	13	13	13	13	13	12	11	11	10	9	9	10.7	13.2
26-May-06	8	7	7	7	7	7	7	8	8	9	9	9	9	10	10	12	10	11	11	9	9	8	8	7	8.7	11.5
27-May-06	6	5	5	4	3	3	6	9	11	10	11	12	12	14	15	15	16	16	16	16	14	9	7	5	10.0	16.2
28-May-06	4	2	2	1	0	2	6	9	11	13	15	17	18	20	21	18	13	16	17	16	12	9	9	10	10.9	20.5
29-May-06	8	6	7	8	8	9	9	9	9	10	10	12	13	15	16	17	17	17	17	15	12	11	10	9	11.5	17.1
30-May-06	9	7	6	6	6	6	7	10	12	14	16	17	18	15	19	19	20	20	20	20	18	15	14	13	13.6	20.3
31-May-06	11	8	7	7	6	7	11	13	16	18	20	21	22	23	24	24	24	25	25	24	19	15	12	10	16.2	24.8
Hourly Avg	8.1	6.9	6.1	5.6	5.0	5.1	6.9	8.9	10.7	12.2	13.4	14.4	15.4	16.2	16.8	17.0	16.9	17.0	16.6	15.6	13.6	11.4	10.3	9.2		
Hourly Max	20.8	17.2	14.1	12.5	14.7	14.8	15.7	17.8	20.3	21.6	22.2	22.9	24.1	26.1	27.8	28.8	29.0	29.5	29.4	28.5	23.1	19.6	22.7	22.0		

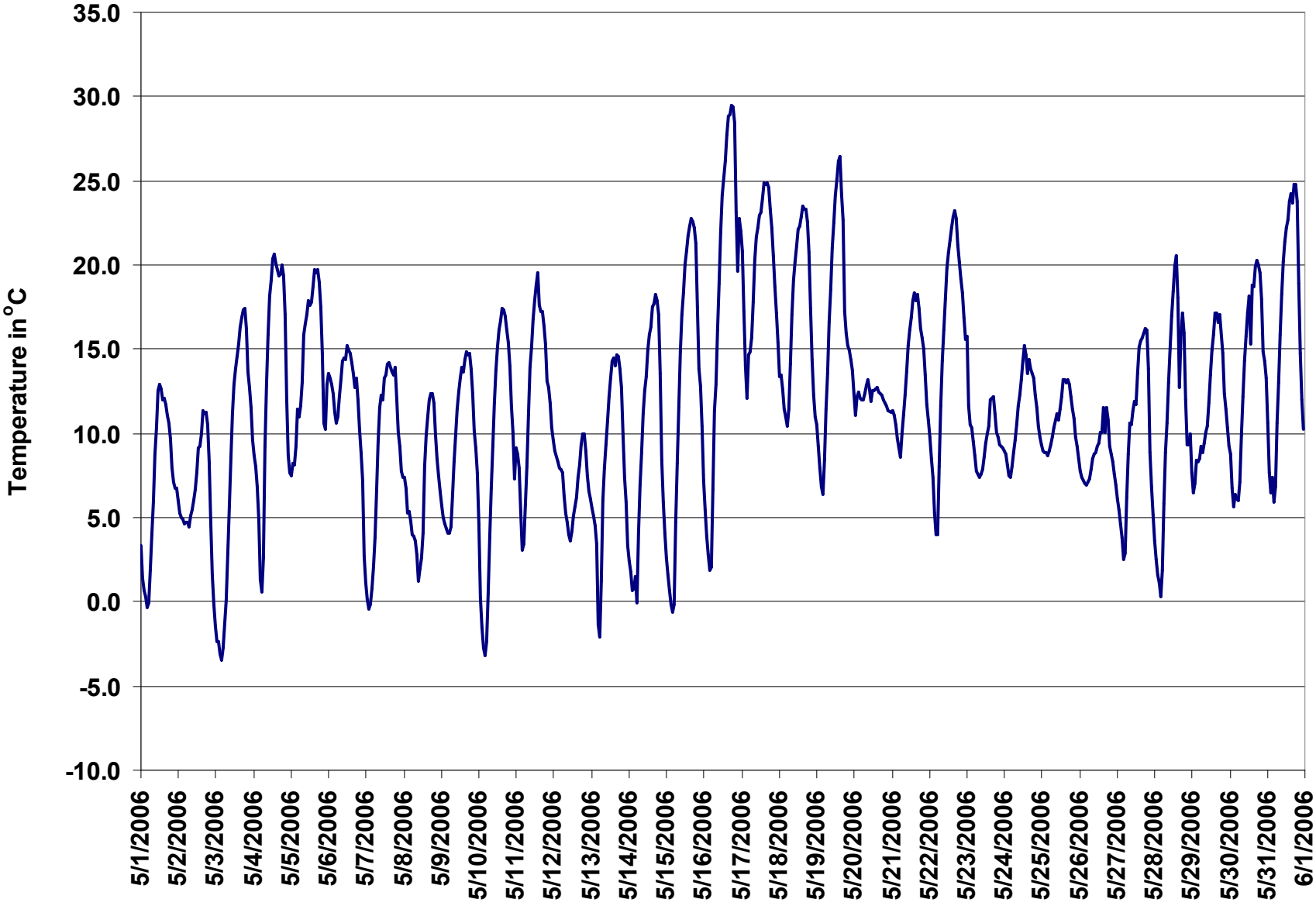


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

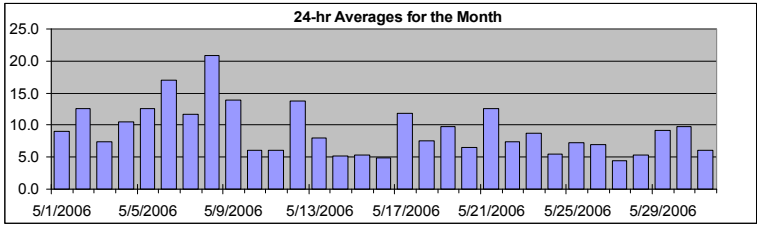
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	28.2	km/hr	6-May	13:00 14:00
Maximum 24-hr Value:	20.9	km/hr	8-May	

Calm Time:	0 hrs	**0%** calms	Operational Time: 744 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageS
	24.4	20.1	12.2	8.1	4.8	2.2	1.7	9.2 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-06	3	3	2	3	3	4	6	8	8	7	7	7	10	6	11	13	15	17	16	14	17	15	12	11	9.0	17.2
2-May-06	13	14	13	13	12	13	14	14	12	13	14	16	16	19	16	16	16	16	14	12	7	4	2	2	12.6	18.7
3-May-06	2	2	4	4	4	5	5	5	5	7	9	9	10	10	11	8	9	10	10	11	8	10	9	8	7.4	11.3
4-May-06	10	9	5	4	3	2	3	4	10	15	16	17	17	20	19	18	14	13	16	17	11	5	2	2	10.6	20.5
5-May-06	2	4	5	6	13	13	14	14	18	22	21	24	22	18	18	16	15	15	12	7	5	3	4	10	12.5	23.8
6-May-06	11	10	11	14	13	11	12	16	18	17	22	20	22	28	27	25	21	22	22	23	21	12	7	3	17.0	28.2
7-May-06	2	2	2	2	2	4	4	5	10	14	14	17	23	25	20	17	15	10	11	14	14	16	21	18	11.7	25.0
8-May-06	19	25	24	26	24	26	26	23	19	16	19	21	19	22	18	17	18	18	17	16	20	24	23	21	20.9	25.7
9-May-06	19	20	21	20	17	16	18	17	16	15	15	16	15	13	12	11	11	10	6	6	8	9	12	9	13.9	21.1
10-May-06	4	2	2	2	2	2	2	4	4	6	7	7	10	9	10	10	11	12	12	9	5	5	4	2	6.0	12.3
11-May-06	4	4	4	3	2	2	5	5	4	7	8	9	8	8	9	10	10	8	5	4	4	6	7	8	6.0	10.0
12-May-06	12	7	7	7	7	10	15	21	23	20	19	16	16	17	18	14	15	16	12	14	12	9	12	13	13.8	22.9
13-May-06	12	12	12	8	3	3	2	6	11	14	12	9	9	9	10	10	8	8	11	9	5	4	3	3	8.0	14.2
14-May-06	4	2	2	4	5	4	5	6	8	6	7	7	6	6	8	6	6	8	9	6	2	2	3	2	5.1	8.9
15-May-06	2	2	3	2	3	2	4	4	3	6	6	6	7	7	10	9	8	8	8	6	5	6	6	5	5.3	9.5
16-May-06	2	2	1	2	2	2	3	5	5	5	6	6	7	6	7	7	7	6	5	4	3	7	11	9	4.9	11.1
17-May-06	9	4	3	4	7	11	10	9	13	17	18	18	16	15	17	19	17	18	14	11	11	9	7	7	11.8	19.2
18-May-06	3	5	4	4	5	4	5	7	9	14	15	13	12	13	12	10	8	8	10	6	4	5	3	3	7.6	15.1
19-May-06	4	3	3	3	5	6	7	8	12	12	16	15	13	12	12	12	13	14	16	14	12	11	6	7	9.8	16.4
20-May-06	5	6	8	8	9	9	10	8	8	8	6	8	8	8	6	6	6	6	4	6	4	3	3	3	6.5	9.6
21-May-06	10	7	8	4	5	7	11	13	17	18	20	20	20	21	16	16	17	18	14	11	9	8	5	4	12.6	21.0
22-May-06	5	3	3	3	3	3	4	3	5	7	8	7	10	10	10	11	12	12	11	10	10	12	9	8	7.5	12.5
23-May-06	11	10	10	10	9	9	8	7	6	8	10	12	9	9	10	12	11	12	8	6	6	6	5	6	8.7	12.4
24-May-06	6	3	2	3	4	3	4	4	5	4	6	5	8	8	10	7	9	7	6	7	6	6	3	5	5.5	9.9
25-May-06	4	6	4	5	3	5	7	9	10	10	9	5	7	8	10	10	12	10	11	7	6	4	5	6	7.2	12.4
26-May-06	5	5	5	6	5	6	9	7	9	10	10	9	10	9	9	8	10	10	8	5	3	3	2	2	6.9	10.5
27-May-06	3	4	2	1	2	2	3	3	4	5	4	6	5	5	7	7	6	7	7	6	6	4	4	2	4.4	7.1
28-May-06	3	1	2	2	3	3	4	6	9	7	7	7	8	8	8	10	10	7	5	4	2	2	4	4	5.3	10.4
29-May-06	4	6	5	7	8	5	11	11	9	12	11	12	12	12	12	11	9	6	7	16	15	7	7	5	9.1	16.1
30-May-06	5	4	6	5	6	6	7	8	9	16	15	14	16	9	7	10	12	14	14	16	13	6	9	7	9.8	16.3
31-May-06	5	3	4	5	3	3	6	7	10	10	13	11	10	10	9	9	6	6	4	5	4	2	1	2	6.1	13.0
1-hr Average	6.6	6.1	6.1	6.1	6.3	6.5	7.8	8.6	9.9	11.2	12.0	11.9	12.3	12.3	12.2	11.7	11.6	11.4	10.5	9.8	8.3	7.3	6.8	6.4		
Hourly Max	19.5	24.5	24.3	25.7	24.3	25.7	25.7	23.3	22.9	22.5	22.1	23.8	22.7	28.2	27.3	25.3	20.9	22.2	22.5	23.2	20.9	24.2	23.4	21.1		

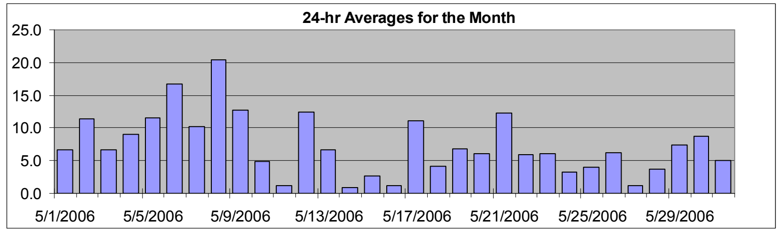
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: **May 1, 2006** **to** **June 1, 2006**



Summary

Maximum 1-hr Average:	27.7	km/hr	6-May	13:00 14:00
Maximum 24-hr Value:	20.5	km/hr	8-May	

Calm Time:	20 hrs	3% calms	Operational Time: 724 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageV
	24.2	19.7	11.8	7.3	4.1	1.5	0.9	4.3 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-06	3	3	1	2	3	3	6	7	7	6	5	4	9	2	9	12	13	17	15	13	16	15	12	11	6.6	16.7
2-May-06	13	14	13	13	12	12	13	14	12	13	14	15	16	17	16	15	15	15	14	11	6	3	2	calm	11.4	17.2
3-May-06	calm	calm	calm	4	4	5	5	5	5	6	8	8	8	8	8	7	6	9	10	11	8	10	9	8	6.7	11.0
4-May-06	10	9	4	3	2	1	1	1	10	14	15	16	16	19	19	18	14	13	16	17	11	5	2	1	9.1	18.7
5-May-06	2	3	5	6	13	13	13	14	18	22	21	24	21	18	17	15	14	14	12	7	4	1	4	10	11.5	23.7
6-May-06	11	10	11	14	13	11	12	15	18	17	22	19	21	28	27	25	20	21	22	23	21	12	6	2	16.7	27.7
7-May-06	1	2	1	2	1	calm	3	4	9	13	12	16	22	25	19	16	14	9	10	14	14	16	21	18	10.1	24.6
8-May-06	19	24	24	26	24	26	25	23	19	16	19	21	19	21	17	16	17	17	17	16	20	24	23	21	20.5	25.6
9-May-06	19	19	21	20	17	16	18	17	15	14	14	15	13	11	11	9	9	8	5	6	8	9	12	9	12.7	21.0
10-May-06	3	1	1	1	1	calm	1	4	3	5	6	1	9	7	8	9	10	11	11	9	5	5	3	1	4.9	11.2
11-May-06	4	3	3	1	2	2	4	4	3	6	7	7	6	5	6	4	2	8	3	2	4	4	6	8	1.1	7.8
12-May-06	11	7	7	7	6	10	15	21	23	20	19	16	16	16	18	13	15	16	12	14	12	9	12	13	12.5	22.7
13-May-06	12	12	12	7	3	3	2	5	10	14	11	8	6	4	9	7	4	8	11	9	4	2	2	2	6.6	13.7
14-May-06	4	1	calm	3	5	3	4	6	8	4	5	4	3	5	5	3	4	6	8	6	2	calm	1	calm	0.9	8.3
15-May-06	calm	calm	calm	calm	2	2	4	3	1	4	4	3	2	2	7	8	7	8	8	6	5	6	6	4	2.7	8.2
16-May-06	1	1	1	1	calm	2	1	calm	4	3	5	3	4	2	3	4	5	5	5	4	2	4	10	5	1.1	9.6
17-May-06	9	3	1	2	6	11	10	8	12	17	17	18	15	14	15	18	17	17	13	11	11	9	6	7	11.1	18.3
18-May-06	2	5	4	4	4	4	4	7	8	13	14	12	11	12	10	8	8	7	9	6	4	5	3	3	4.2	13.8
19-May-06	4	2	2	3	5	6	7	7	11	11	16	14	12	11	11	11	12	14	13	14	12	11	2	7	6.9	15.8
20-May-06	5	6	8	8	9	9	9	8	8	7	5	8	8	8	6	6	6	5	4	5	3	3	2	2	6.0	9.3
21-May-06	8	7	8	4	5	7	11	13	17	17	20	20	19	21	15	15	17	17	14	11	9	7	5	4	12.2	20.6
22-May-06	5	3	1	2	2	calm	3	1	3	5	7	6	9	9	9	10	12	12	11	10	10	9	7	8	6.0	11.6
23-May-06	10	10	10	9	9	8	7	7	2	7	9	12	8	9	10	11	11	12	7	6	5	5	4	6	6.0	11.8
24-May-06	5	2	1	2	4	2	3	3	4	3	5	3	6	7	9	7	9	7	6	7	6	6	3	5	3.3	8.9
25-May-06	3	5	2	4	1	5	7	9	10	9	6	3	6	7	9	9	11	9	10	7	6	4	4	6	4.0	11.4
26-May-06	5	5	4	6	5	6	9	7	9	10	9	9	10	9	8	8	10	10	8	5	2	1	calm	2	6.2	10.2
27-May-06	1	2	2	1	2	2	3	2	4	5	4	5	5	4	5	4	4	6	5	5	6	4	3	calm	1.2	6.0
28-May-06	2	calm	1	calm	3	2	4	5	8	6	6	5	6	6	3	5	5	6	2	3	2	2	3	4	3.7	7.9
29-May-06	4	5	5	7	8	5	10	11	9	11	10	11	10	10	10	10	7	6	5	16	14	7	6	4	7.3	15.8
30-May-06	5	3	6	5	6	6	7	8	9	15	14	13	15	7	4	10	11	14	13	15	13	6	9	7	8.7	15.3
31-May-06	5	3	4	5	3	2	5	7	9	9	12	10	9	9	8	7	3	2	2	5	4	1	1	1	5.0	12.5
1-hr Vector	3.5	3.0	3.0	3.1	2.8	3.1	4.1	4.9	5.0	4.9	5.1	4.7	4.8	6.0	5.8	5.9	6.2	5.4	4.5	4.3	4.0	3.5	3.6	3.4		
Hourly Max	19.2	24.2	24.1	25.5	24.2	25.6	25.4	23.1	22.7	22.2	21.6	23.7	21.8	27.7	26.7	25.0	20.0	21.5	22.1	22.9	20.7	24.1	23.3	21.0		

PASZA - Evergreen Park - Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: **May 1, 2006** to **June 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	
	356.4	337.7	286.2	248.2	150.3	52.4	14.8	264 deg	

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-06	315	288	263	210	207	209	262	276	270	306	330	28	73	35	339	330	317	324	314	303	266	270	277	274	302	WNW
2-May-06	269	266	275	277	274	303	308	311	312	303	308	307	309	314	320	321	320	326	328	335	346	43	192	231	306	NW
3-May-06	235	355	248	193	199	249	244	247	202	200	228	201	189	234	226	218	242	262	246	271	251	243	242	229	233	SW
4-May-06	220	234	251	253	65	130	60	261	261	276	283	290	263	272	269	260	248	226	258	265	246	188	119	159	259	W
5-May-06	193	215	205	243	248	248	247	246	248	249	248	248	252	257	246	257	284	298	313	311	348	268	255	253	257	WSW
6-May-06	256	249	251	256	251	252	254	255	262	264	267	272	250	260	262	265	264	266	269	269	254	253	238	156	260	W
7-May-06	112	64	74	56	58	322	306	254	262	253	284	282	265	260	262	269	271	237	227	207	221	247	254	254	257	WSW
8-May-06	251	252	255	258	260	258	268	268	278	270	278	277	273	277	283	289	293	286	287	279	259	261	263	263	269	W
9-May-06	260	259	257	259	262	263	261	275	279	289	302	317	311	300	314	299	309	299	337	282	258	244	244	250	278	W
10-May-06	249	149	71	127	160	341	144	212	221	232	206	179	216	253	207	227	232	250	249	236	263	256	239	359	230	SW
11-May-06	287	302	310	290	197	53	235	256	47	91	131	95	130	125	106	274	156	87	239	9	90	156	330	345	116	ESE
12-May-06	349	343	334	332	314	294	281	269	265	267	272	287	277	273	271	274	283	288	283	266	255	231	236	238	277	W
13-May-06	238	241	239	249	110	111	110	255	261	264	267	286	232	216	244	260	287	271	257	248	214	208	161	78	248	WSW
14-May-06	215	172	113	263	230	207	261	283	274	306	227	229	190	27	313	45	335	62	73	79	77	150	350	22	290	WNW
15-May-06	190	57	201	208	207	241	257	260	276	63	129	127	129	181	39	49	44	45	52	55	67	68	77	75	77	ENE
16-May-06	306	31	48	31	147	51	172	159	216	168	178	169	140	201	62	57	23	48	27	75	59	217	272	215	149	SSE
17-May-06	241	213	29	332	304	272	280	291	303	300	293	284	299	309	301	301	299	290	287	300	287	298	293	250	292	WNW
18-May-06	284	268	295	306	231	230	250	256	281	263	273	312	328	337	341	353	340	27	66	65	67	75	76	61	317	NW
19-May-06	68	105	52	60	66	72	69	67	91	93	111	108	107	120	114	90	59	62	83	355	334	345	326	340	72	ENE
20-May-06	324	315	327	333	329	336	343	354	11	10	14	357	360	4	1	354	349	357	354	7	359	347	351	181	350	N
21-May-06	142	134	134	161	187	165	146	139	146	139	138	136	127	138	146	150	155	156	141	136	151	120	90	97	142	SE
22-May-06	89	86	358	86	85	343	348	78	251	297	314	339	297	304	306	311	305	310	306	301	308	317	299	309	313	NW
23-May-06	316	309	293	307	308	312	301	296	245	210	206	206	193	195	188	210	211	225	251	272	241	252	206	188	246	WSW
24-May-06	222	179	232	115	98	155	183	180	309	358	21	337	290	320	335	333	325	305	312	312	299	309	257	264	308	NW
25-May-06	335	327	128	162	144	116	146	152	165	187	217	307	302	273	274	264	247	261	273	273	271	278	254	268	243	WSW
26-May-06	265	248	240	237	250	217	225	244	266	278	268	272	280	283	294	304	288	286	296	303	284	336	297	206	271	W
27-May-06	141	172	170	151	186	156	187	152	132	116	93	285	275	290	258	322	317	312	325	346	338	331	22	84	302	WNW
28-May-06	299	345	295	356	319	352	8	15	33	60	59	51	43	64	35	75	47	329	357	121	96	101	136	159	42	NE
29-May-06	87	96	109	140	147	165	194	202	186	195	176	168	160	178	193	202	267	296	185	151	157	142	128	195	173	S
30-May-06	169	99	88	98	98	102	142	153	134	139	150	161	157	213	185	202	166	156	146	140	128	111	125	123	146	SE
31-May-06	121	108	155	138	125	127	134	160	132	137	135	153	156	133	160	164	196	149	118	292	314	272	128	161	147	SSE
Hourly Avg	255	256	259	260	250	260	254	253	256	254	251	264	251	264	272	278	284	287	285	281	262	259	257	248		

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

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2006 to June 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
	64.2	54.1	30.5	18.0	12.5	6.0	4.8

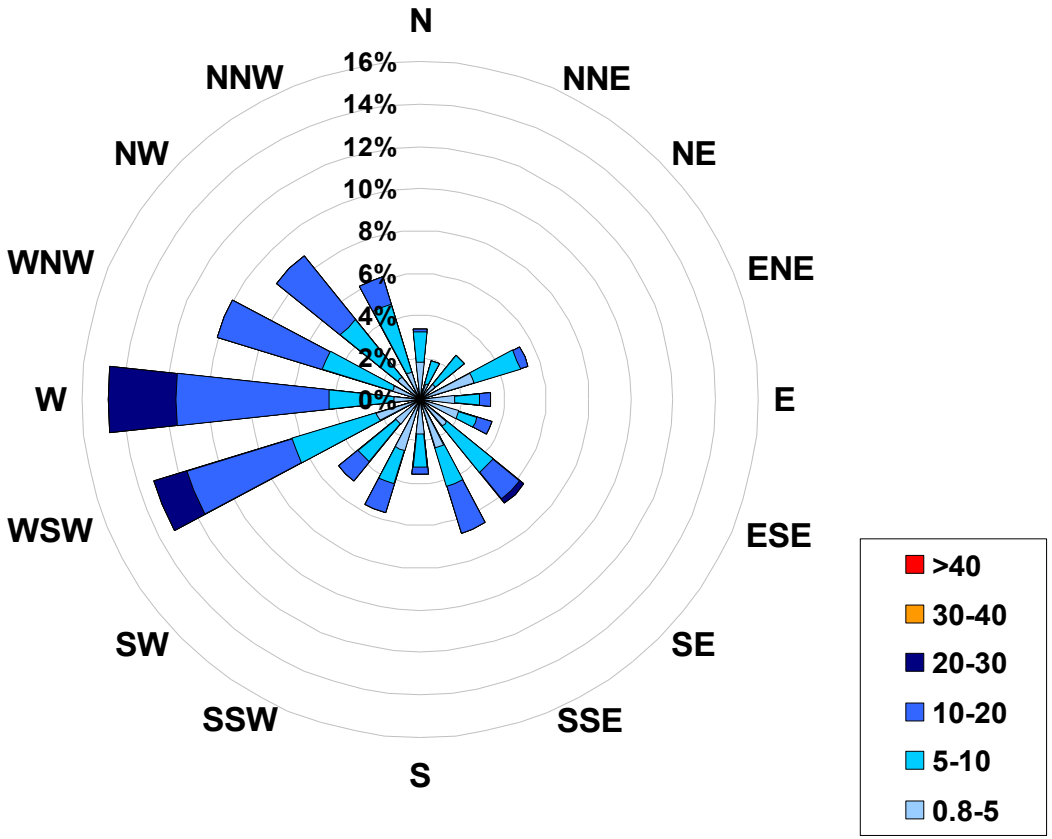
Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	17	23	34	31	18	24	11	13	15	32	38	53	32	52	36	22	32	14	14	14	7	9	11	15	53.2
2-May-06	9	7	8	8	9	11	14	13	16	17	17	18	16	22	14	14	17	17	13	9	12	35	33	34	34.6
3-May-06	45	63	48	16	10	8	10	13	30	27	27	36	43	34	46	37	54	26	20	10	5	5	6	6	62.8
4-May-06	3	4	54	53	55	43	41	54	14	15	23	22	23	21	13	13	12	10	10	8	5	9	38	23	54.7
5-May-06	23	15	13	9	6	5	6	7	8	8	8	7	13	10	17	19	21	17	18	18	17	39	8	5	38.5
6-May-06	5	6	6	5	5	5	6	10	10	13	12	14	13	10	11	9	13	12	10	9	7	7	15	26	26.2
7-May-06	32	19	56	36	55	66	37	50	20	14	22	17	15	11	19	18	17	17	16	10	7	8	7	8	65.8
8-May-06	9	7	6	6	6	6	8	8	11	7	8	8	9	14	16	18	18	14	13	11	7	5	5	6	18.5
9-May-06	6	5	5	5	7	7	6	10	13	19	20	22	26	25	28	40	25	30	30	21	9	6	5	8	39.8
10-May-06	26	38	19	32	28	30	33	24	43	28	37	66	42	43	41	24	28	23	16	9	13	15	43	45	66.1
11-May-06	17	22	19	33	41	22	36	20	35	29	32	43	51	50	42	49	49	19	39	30	16	27	22	14	51.1
12-May-06	12	15	18	12	14	13	10	6	6	7	8	10	9	9	8	13	12	13	12	8	5	5	4	6	17.7
13-May-06	5	5	5	40	19	13	22	22	11	13	25	36	55	48	25	41	36	26	9	9	9	60	44	39	59.9
14-May-06	25	34	57	15	7	22	23	18	14	58	56	51	59	50	48	60	53	36	17	19	19	67	66	55	67.2
15-May-06	58	53	74	59	43	31	16	43	53	53	48	70	65	66	34	32	32	23	15	12	6	7	8	11	74.3
16-May-06	40	34	37	18	56	15	51	42	31	52	42	58	53	35	62	55	42	25	21	13	23	27	25	21	61.5
17-May-06	8	55	52	43	26	5	8	14	16	13	16	13	18	23	21	17	16	17	16	16	13	14	14	10	55.1
18-May-06	42	13	21	21	15	26	17	19	19	17	24	26	23	23	30	27	26	27	18	14	16	7	8	18	41.9
19-May-06	11	26	51	36	7	9	10	17	16	17	15	17	22	24	21	19	15	14	20	12	14	12	46	16	51.5
20-May-06	13	11	11	16	12	13	13	14	16	21	22	18	18	18	17	19	15	20	22	19	27	51	45	36	50.6
21-May-06	19	11	8	20	16	13	8	8	10	10	10	12	13	11	18	13	12	14	13	15	15	16	9	14	20.1
22-May-06	10	18	56	45	41	56	23	60	59	45	26	47	28	24	24	22	23	18	14	16	16	27	44	19	60.4
23-May-06	13	14	12	15	17	22	33	17	28	8	15	13	18	16	16	18	18	15	19	17	23	18	20	13	33.1
24-May-06	24	42	56	15	13	28	19	26	46	50	38	45	43	33	20	22	18	18	26	17	21	18	40	17	56.3
25-May-06	35	14	32	19	46	14	14	13	16	17	25	53	21	35	23	21	21	19	14	19	18	10	19	19	52.8
26-May-06	15	15	15	13	21	12	8	17	14	13	12	15	15	15	17	22	11	15	18	28	32	36	56	26	55.9
27-May-06	19	29	13	17	12	9	21	21	25	9	40	47	27	34	50	50	47	33	30	28	10	7	38	40	50.2
28-May-06	27	48	50	44	54	51	21	36	22	40	42	46	53	54	36	33	30	22	54	39	28	17	17	23	54.2
29-May-06	8	8	14	9	10	13	15	14	19	20	18	20	25	29	26	26	32	25	40	10	12	15	17	16	39.9
30-May-06	11	28	6	9	7	10	11	13	14	13	23	21	21	38	49	22	23	14	14	8	6	6	5	7	48.7
31-May-06	8	8	11	12	20	26	13	18	12	17	15	30	26	25	38	37	58	60	41	18	13	50	31	29	60.1
Hourly Max	58	63	74	59	56	66	51	60	59	58	56	70	65	66	62	60	58	60	54	39	32	67	66	55	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	199
5	to	10	272
10	to	20	235
20	to	30	38
30	to	40	0
	>	40	0
Total Non-Zero Values			744

PASZA - Smoky Heights

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

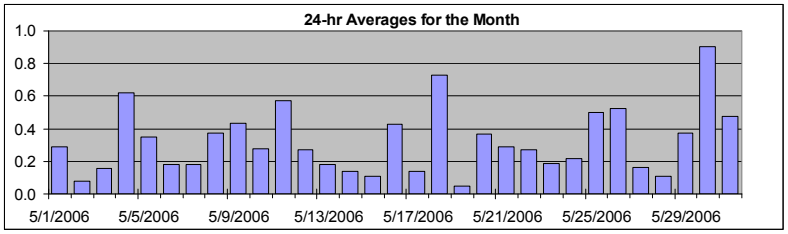
Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	3.1	ppb	4-May	5:00 6:00
Maximum 24-hr Average:	0.9	ppb	30-May	



AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.1	0.5	0.2	0.0	0.0	0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
2-May-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
3-May-06	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.6
4-May-06	0	A	0	0	0	3	1	1	1	2	1	C	C	C	C	A	0	1	0	0	0	1	0	0	0.6	3.1
5-May-06	0	1	2	0	1	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0
6-May-06	1	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	1.3
7-May-06	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0.2	0.8
8-May-06	0	0	A	1	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.8
9-May-06	1	A	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3
10-May-06	A	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.9
11-May-06	1	2	1	1	1	1	1	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0	A	0	0.6	1.8
12-May-06	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0.3	0.7
13-May-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0.2	0.6
14-May-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	0.1	0.5
15-May-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.6
16-May-06	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	A	0	0	1	1	0	0	0.4	1.0
17-May-06	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.9
18-May-06	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0.7	2.0
19-May-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	0.3
20-May-06	0	0	0	0	0	0	0	0	0	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0.4	1.3
21-May-06	0	0	0	1	1	0	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
22-May-06	0	1	0	0	0	0	0	1	1	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0.3	0.8
23-May-06	0	0	0	0	N	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
24-May-06	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
25-May-06	0	0	0	1	1	1	0	0	A	1	1	0	0	1	0	0	1	0	1	0	1	1	0	1	0.5	1.0
26-May-06	1	0	0	1	1	1	1	A	1	0	1	1	1	1	0	1	0	1	1	0	0	1	0	0	0.5	0.8
27-May-06	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
28-May-06	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
29-May-06	0	0	0	0	A	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	0	0.4	1.0
30-May-06	1	1	0	A	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0.9	1.6
31-May-06	1	2	A	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.3
Hourly Avg	0.3	0.5	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2		
Hourly Max	1.2	2.3	2.0	2.1	1.8	3.1	2.0	1.1	1.5	2.0	1.4	1.6	1.1	1.0	0.9	0.9	1.0	0.8	0.8	0.7	1.0	0.8	0.8	1.3		

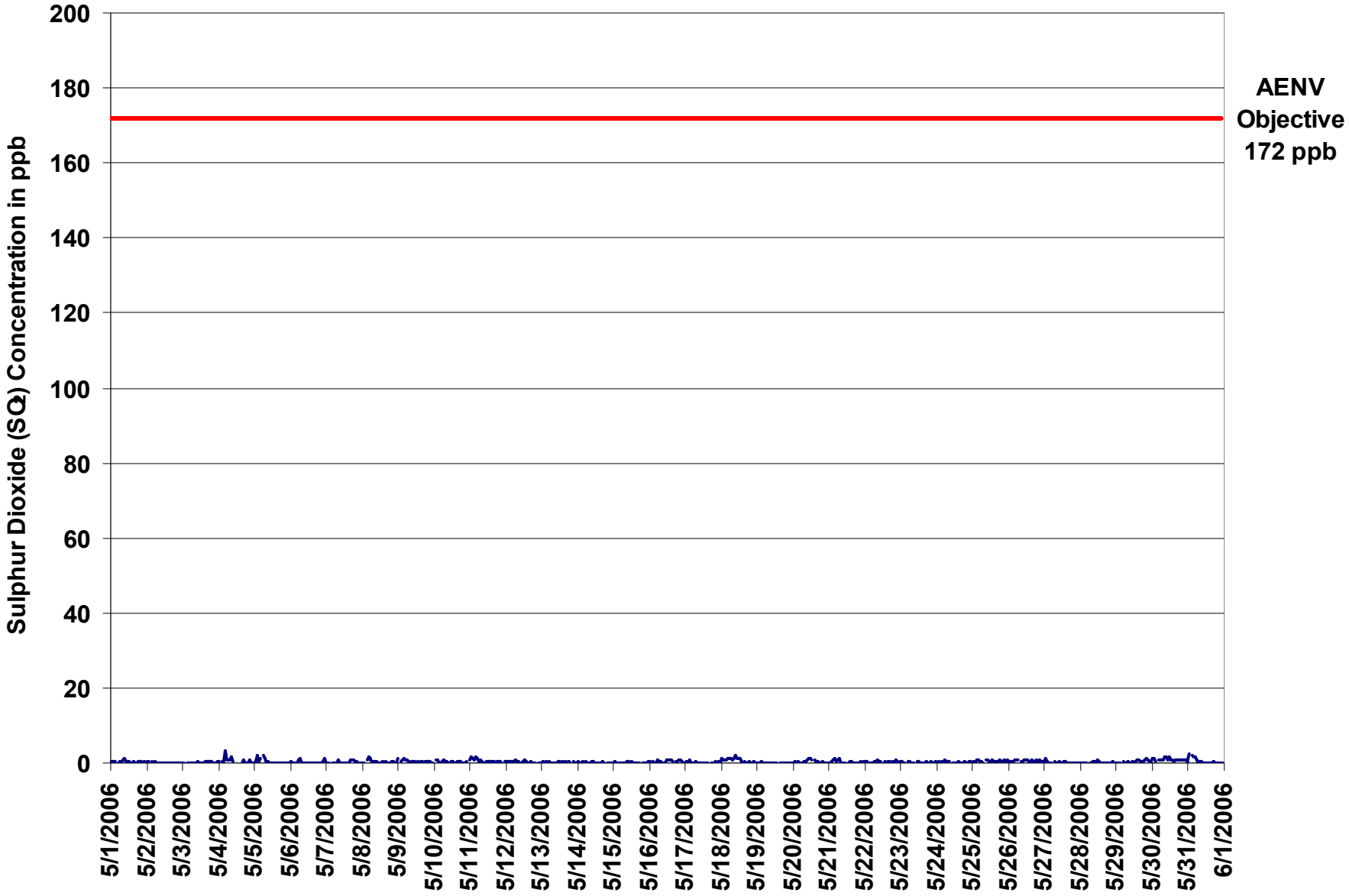


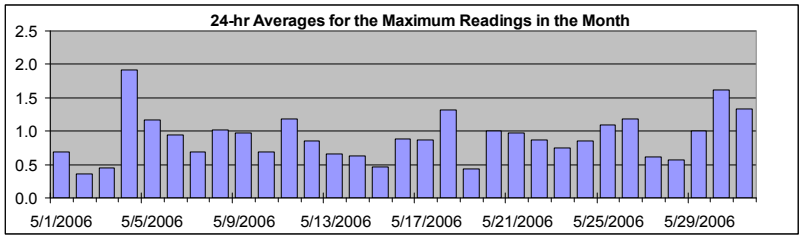
Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	8.0	ppb	4-May	5:00 6:00
Maximum 24-hr Value:	1.9	ppb	4-May	

AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.1	1.1	0.7	0.5	0.1	0.0	0.9 ppb	0.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	1	1	0	1	A	1	1	1	1	2	1	1	1	0	0	1	0	1	1	1	1	0	0	0	0.7	1.6
2-May-06	1	1	1	A	1	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.4	0.8
3-May-06	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	0	1	0.5	1.0
4-May-06	1	A	1	1	2	8	4	2	2	2	1	C	C	C	C	A	1	2	0	0	0	4	2	0	1.9	8.0
5-May-06	1	3	7	1	2	A	3	3	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1.2	7.5
6-May-06	1	1	0	0	A	0	3	5	0	0	0	0	0	0	0	0	0	0	1	1	3	0	3	3	0.9	4.9
7-May-06	0	0	0	A	0	0	0	0	4	0	0	0	1	0	0	0	1	1	2	2	1	1	1	0	0.7	3.6
8-May-06	1	0	A	4	3	2	2	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1.0	4.0
9-May-06	2	A	1	1	2	1	1	1	1	1	1	2	1	1	0	1	1	1	1	1	1	1	0	1	1.0	1.8
10-May-06	A	2	1	0	0	1	1	1	1	1	1	0	1	1	0	0	1	1	1	0	1	1	1	A	0.7	1.5
11-May-06	2	2	3	1	3	2	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	A	1	1.2	2.9
12-May-06	1	1	1	1	1	1	2	1	1	0	1	1	1	1	2	0	0	1	0	1	1	A	1	0	0.8	1.6
13-May-06	1	1	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	0.7	1.0
14-May-06	1	0	0	1	0	1	0	2	2	1	1	0	0	0	0	0	1	1	1	A	0	0	0	0	0.6	2.1
15-May-06	0	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	A	0	0	1	0	0	0.5	0.9
16-May-06	1	0	1	0	1	1	1	1	0	0	1	1	1	2	1	1	1	A	1	1	1	1	1	0	0.9	1.7
17-May-06	1	1	0	4	0	0	1	3	3	0	1	0	1	2	0	1	A	0	0	0	1	0	1	0	0.9	4.2
18-May-06	2	2	1	1	2	2	2	2	2	3	2	2	2	2	0	A	1	0	0	1	0	0	1	1	1.3	2.7
19-May-06	1	1	0	1	1	0	0	1	0	0	1	0	0	0	A	0	1	0	0	0	1	0	1	1	0.4	1.0
20-May-06	1	1	0	1	1	1	1	1	1	1	2	2	1	A	1	1	1	1	1	1	1	1	1	1	1.0	2.1
21-May-06	1	1	1	1	3	1	2	2	1	0	0	1	A	1	1	1	1	1	1	0	1	1	1	1	1.0	3.0
22-May-06	1	1	1	1	0	1	1	1	2	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8
23-May-06	1	1	1	1	N	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	0	1	0.7	1.4
24-May-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
25-May-06	0	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6
26-May-06	1	1	1	1	1	1	1	A	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1.2	1.7
27-May-06	1	2	1	1	1	1	A	1	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0.6	1.5
28-May-06	1	1	0	0	0	A	0	0	1	1	0	1	1	0	1	1	1	0	0	0	0	1	1	1	0.6	1.4
29-May-06	0	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.0	2.2
30-May-06	2	2	1	A	1	1	1	1	2	2	2	2	2	2	1	2	2	1	2	1	2	1	1	1	1.6	2.5
31-May-06	2	3	A	5	4	3	1	1	1	1	1	0	1	1	1	1	0	1	1	0	0	1	1	1	1.3	4.8
Hourly Avg	0.9	1.1	1.0	1.2	1.3	1.2	1.2	1.2	1.1	1.0	0.8	0.9	0.8	0.8	0.7	0.6	0.7	0.8	0.7	0.6	0.8	0.8	0.8	0.7		
Hourly Max	1.8	3.5	7.5	4.8	3.6	8.0	4.3	4.9	3.6	2.7	2.1	2.5	1.8	2.1	1.5	1.5	1.7	2.0	2.0	1.6	2.7	3.6	3.1	2.6		

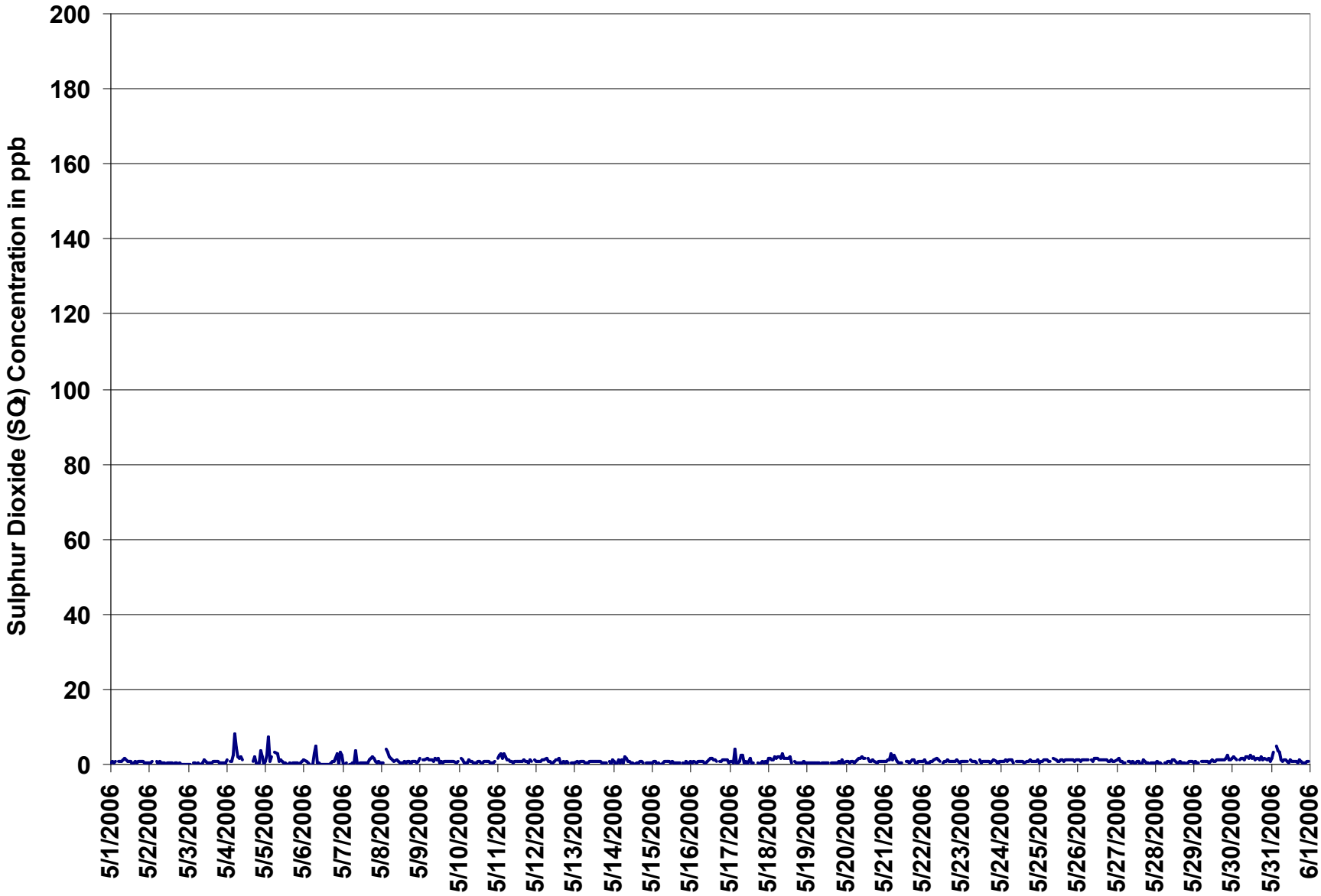
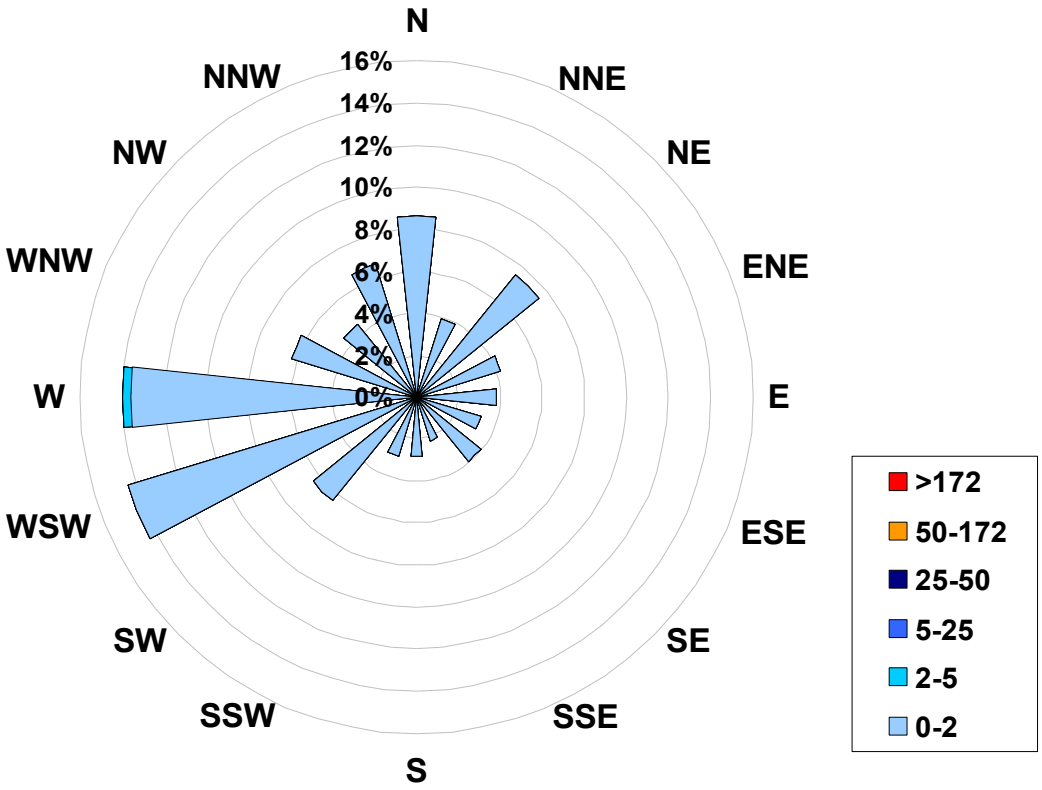


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	703
2	to	5	3
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			706

PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

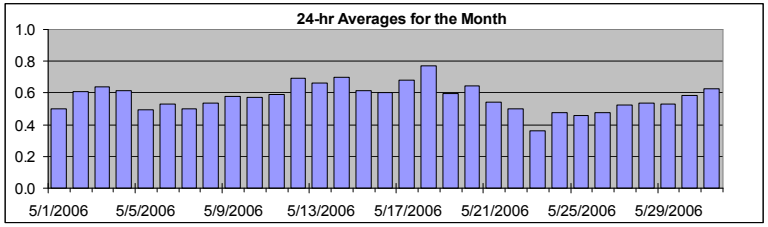
Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2006 to June 1, 2006

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



Summary

Maximum 1-hr Average:	1.6	ppb	15-May	3:00 4:00
Maximum 24-hr Value:	0.8	ppb	18-May	

AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.8	0.6	0.6	0.5	0.4	0.3	0.6 ppb	0.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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

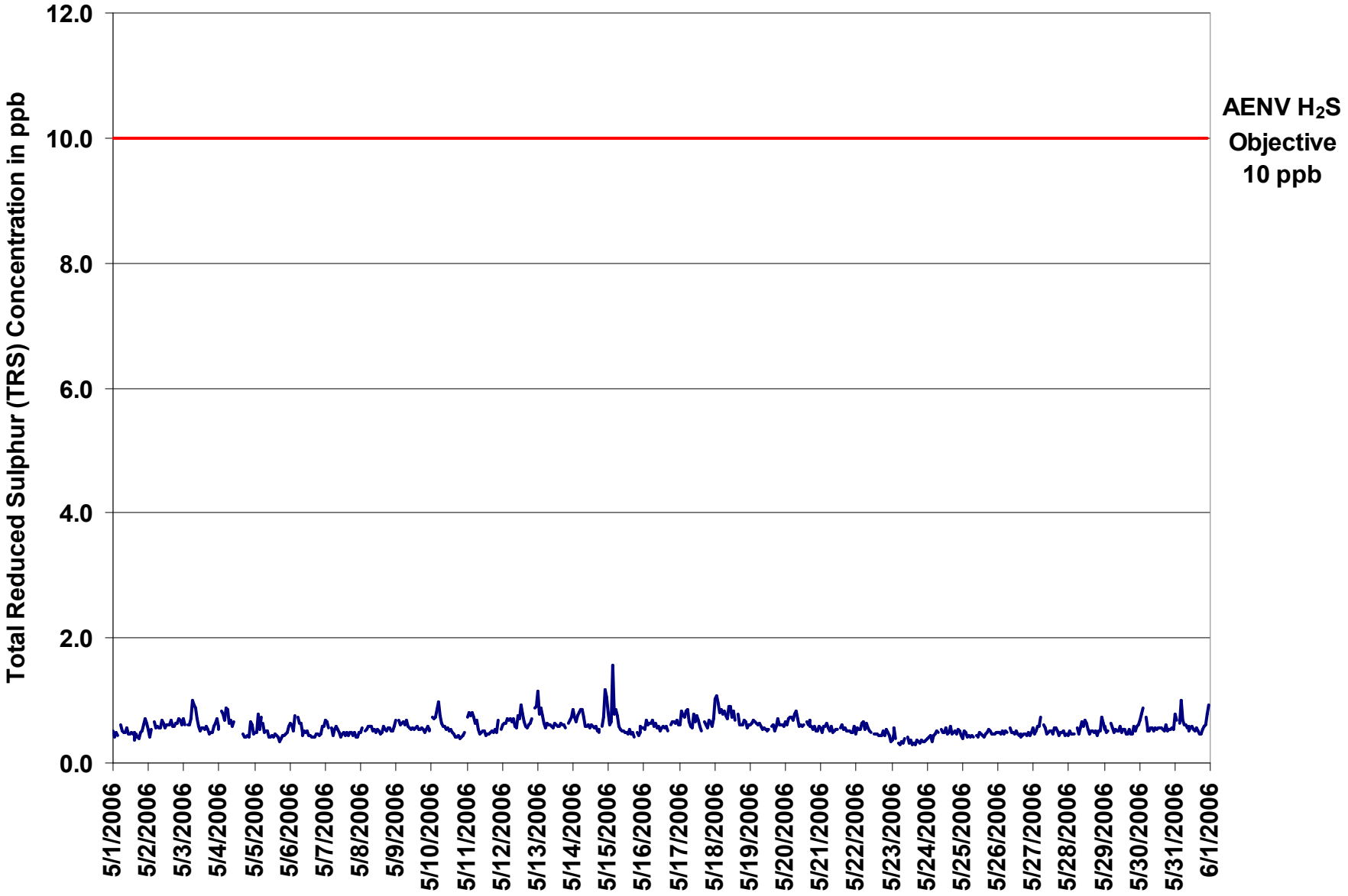


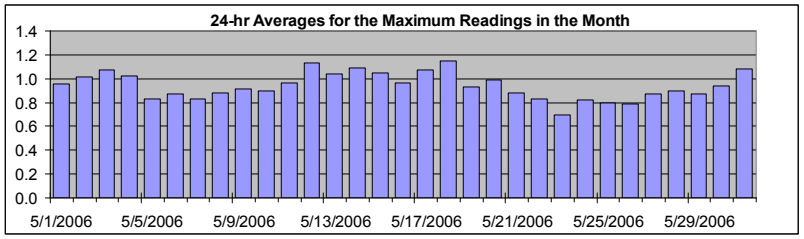
Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	2.8	ppb	15-May	3:00 4:00
Maximum 24-hr Value:	1.2	ppb	18-May	

AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.3	1.0	0.9	0.8	0.7	0.6	0.9 ppb	0.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
2-May-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	1.0	1.2
3-May-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	1.5
4-May-06	1	A	1	1	1	1	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	1	1	1	1.0	1.4
5-May-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	1.2
6-May-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	0.9	1.2
7-May-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	0.8	1.1
8-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
9-May-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
10-May-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.3
11-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1.0	1.7
12-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1.1	2.1
13-May-06	2	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	2.3
14-May-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1.1	2.0
15-May-06	1	1	2	3	1	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	2.8
16-May-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	1.0	1.4
17-May-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	1.4
18-May-06	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.2	1.6
19-May-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	0.9	1.1
20-May-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	1.0	1.3
21-May-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
22-May-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
23-May-06	1	1	1	1	N	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
24-May-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
25-May-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	0.8	0.9
26-May-06	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
27-May-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	0.9	1.2
28-May-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0.9	1.6
29-May-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	0.9	1.0
30-May-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
31-May-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.1	2.2
Hourly Avg	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	1.0	1.0		
Hourly Max	2.3	1.6	1.7	2.8	1.5	1.6	1.6	1.4	1.2	1.3	1.3	1.4	1.2	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.5	1.7	2.1	2.2		

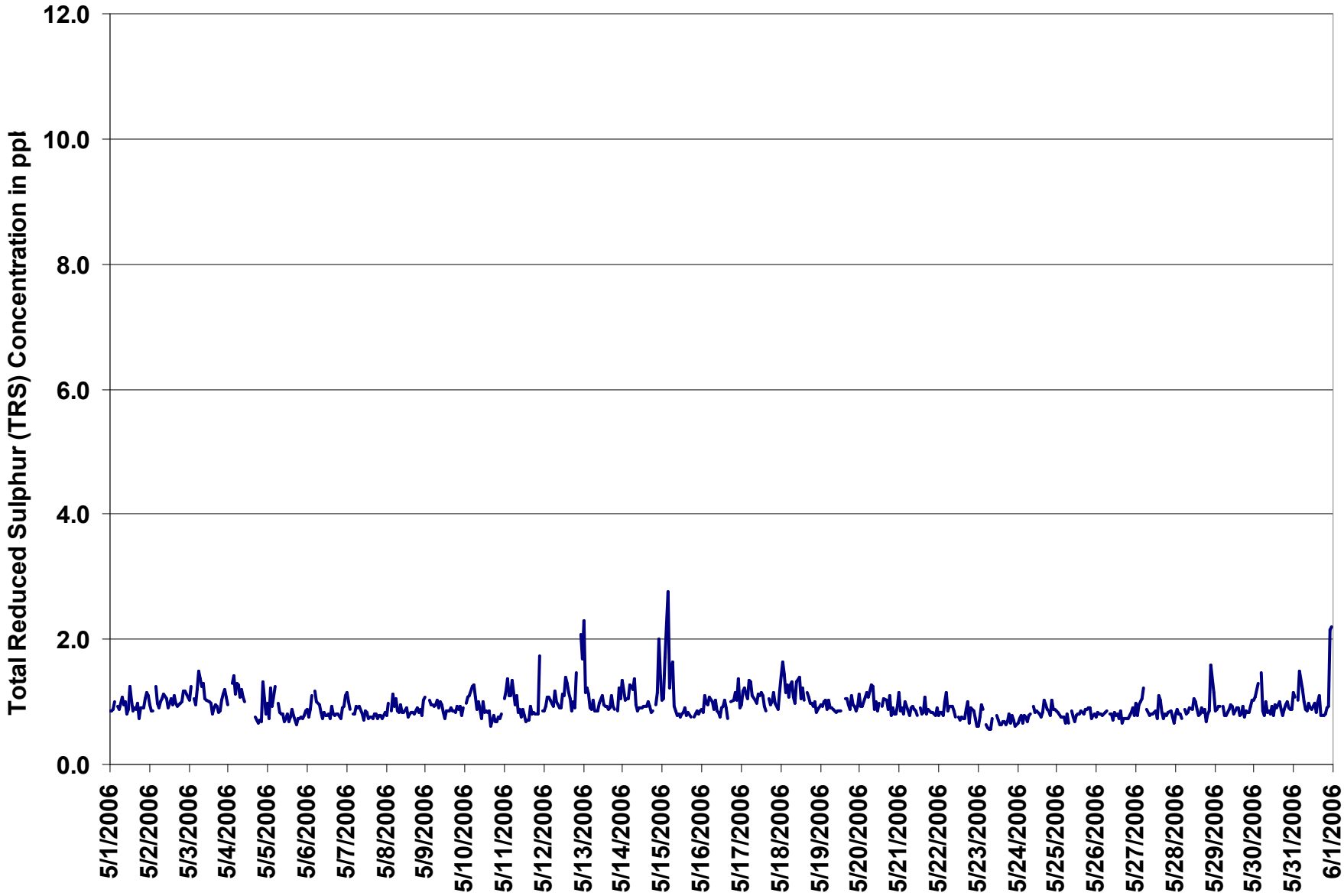
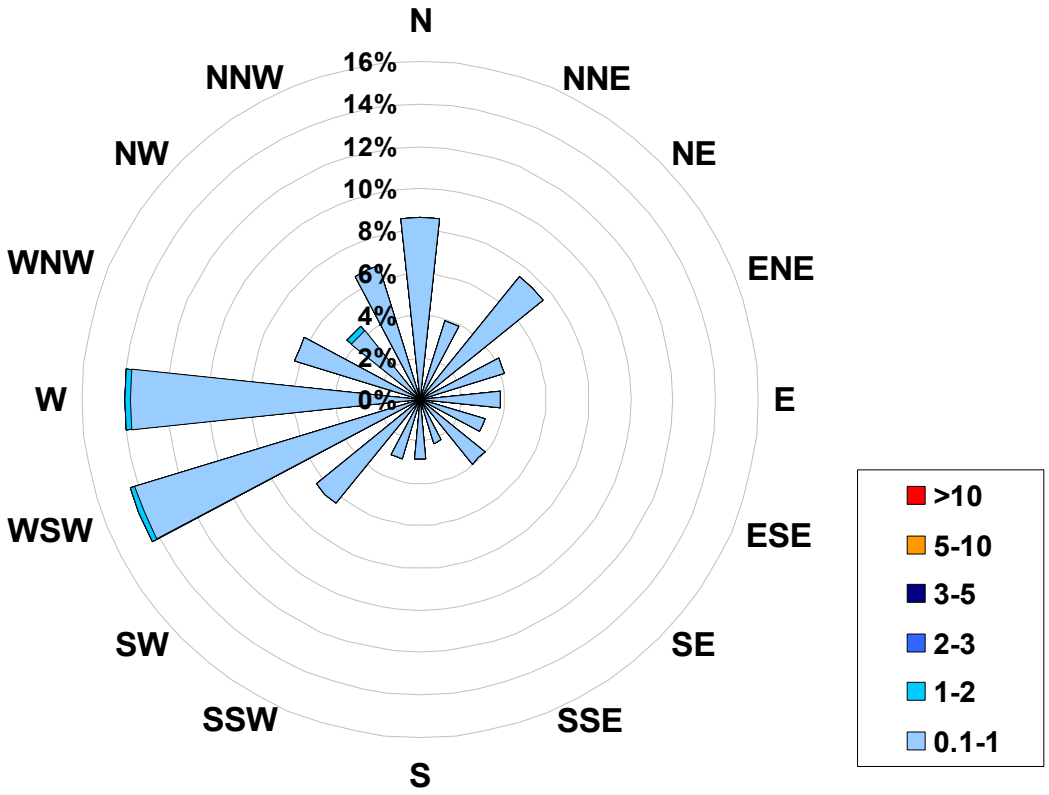


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	700
1	to	2	6
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			706

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

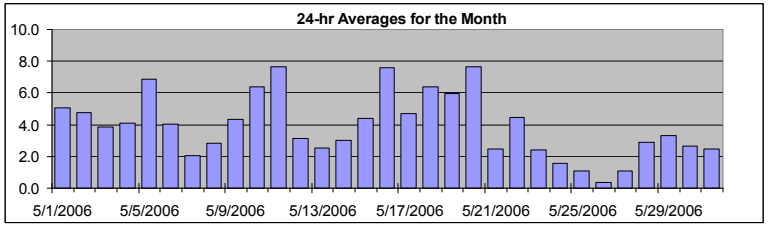
Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 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:	39.0	µg/m³	11-May	6:00 7:00
Maximum 24-hr Value:	7.7	µg/m³	20-May	

AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	17.1	10.0	5.1	3.3	1.7	0.0	0.0	3.9 3 µg/m˜	3.3 µg/m˜

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	4	3	3	3	3	4	4	3	4	5	5	5	4	5	6	7	11	7	6	8	5	6	4	4	5.1	10.7
2-May-06	4	3	2	4	5	5	7	5	5	8	4	4	4	3	8	4	11	6	4	4	4	4	3	3	4.8	11.2
3-May-06	3	2	2	2	3	2	8	8	6	4	1	0	0	1	2	1	2	3	5	10	5	7	13	3	3.9	13.0
4-May-06	2	3	3	3	4	3	5	5	4	7	7	4	C	C	C	0	1	3	9	4	3	5	4	5	4.1	9.2
5-May-06	6	5	5	5	5	5	6	7	5	4	4	3	3	2	3	2	5	4	5	13	19	7	28	14	6.9	28.3
6-May-06	8	8	9	9	6	5	5	5	2	4	3	1	3	4	2	7	0	3	1	3	4	2	2	1	4.0	9.1
7-May-06	3	3	1	2	3	2	4	5	1	0	0	0	0	0	0	1	1	2	2	2	7	4	3	3	2.1	7.0
8-May-06	1	1	1	1	2	2	1	4	3	2	3	5	4	4	1	2	5	2	3	3	3	6	3	3	2.8	6.2
9-May-06	2	1	2	2	2	2	4	5	2	3	5	8	2	2	2	3	4	6	8	12	11	9	4	3	4.3	11.9
10-May-06	1	4	3	4	4	5	7	9	4	5	2	3	4	6	4	7	6	5	4	12	14	7	26	8	6.4	25.6
11-May-06	4	4	4	4	4	6	39	4	5	2	1	2	3	2	3	2	3	8	5	10	10	32	18	8	7.6	39.0
12-May-06	9	5	7	5	3	5	5	5	5	1	0	0	0	1	3	2	3	1	2	3	3	3	2	2	3.1	9.5
13-May-06	2	3	4	2	1	3	4	3	3	0	1	1	1	1	2	3	2	3	4	4	2	4	4	4	2.5	4.4
14-May-06	2	3	3	3	2	3	5	3	2	3	1	0	1	1	2	3	3	3	3	4	5	5	6	5	3.0	6.3
15-May-06	4	3	4	4	4	5	8	6	5	3	1	3	4	3	3	4	4	5	5	7	5	6	6	5	4.4	7.7
16-May-06	5	5	5	5	6	7	7	7	7	7	8	13	8	8	6	6	2	6	5	10	12	10	17	10	7.6	17.1
17-May-06	7	6	3	2	3	3	3	3	1	4	3	4	5	8	10	8	7	4	9	5	6	2	3	4	4.7	10.4
18-May-06	3	4	5	4	7	4	6	7	5	1	7	6	6	18	10	6	6	6	6	6	15	6	5	4	6.4	17.9
19-May-06	5	4	4	6	7	7	7	7	6	5	3	4	14	5	4	6	3	4	5	17	7	5	3	6	6.0	16.8
20-May-06	6	5	6	5	3	3	3	4	10	10	8	8	5	6	10	17	13	11	13	5	6	8	8	9	7.7	17.1
21-May-06	11	13	7	0	0	0	5	4	1	0	0	0	0	0	0	1	0	1	1	2	4	3	3	1	2.5	13.1
22-May-06	3	4	12	1	1	4	4	3	3	3	13	13	7	3	4	3	2	2	3	3	4	4	3	4	4.5	13.3
23-May-06	4	9	4	1	N	1	0	1	2	3	4	2	1	2	3	5	3	2	2	2	1	2	2	1	2.4	8.7
24-May-06	1	1	1	1	0	3	3	3	1	1	0	1	1	1	2	1	1	3	2	2	2	2	2	3	1.6	3.4
25-May-06	2	3	2	2	2	2	2	3	2	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	1.1	3.1
26-May-06	0	0	0	0	0	1	1	2	1	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0.4	1.6
27-May-06	D	0	0	0	0	6	6	0	0	0	0	D	2	0	0	0	0	0	1	3	2	1	2	0	1.1	6.5
28-May-06	0	1	1	0	1	6	2	2	2	1	2	3	1	3	2	3	2	9	2	3	6	6	7	3	2.9	9.1
29-May-06	3	0	2	4	5	4	4	5	4	3	3	4	3	4	3	4	4	3	4	1	7	2	1	1	3.3	6.7
30-May-06	2	2	1	3	4	4	4	5	4	5	3	3	4	1	0	4	0	0	5	3	2	0	1	2	2.6	5.0
31-May-06	2	3	1	1	2	3	3	2	3	1	0	0	1	1	0	1	0	1	3	6	5	7	6	5	2.4	7.2
Hourly Avg	3.7	3.6	3.5	2.9	3.1	3.7	5.6	4.2	3.4	3.2	3.0	3.4	3.1	3.3	3.2	3.7	3.4	3.7	4.2	5.5	5.8	5.3	6.1	4.0		
Hourly Max	11.5	13.1	12.4	8.6	7.4	6.9	39.0	8.6	9.8	10.4	13.2	13.3	13.9	17.9	10.4	17.1	13.1	11.1	12.9	16.8	18.9	32.5	28.3	14.2		

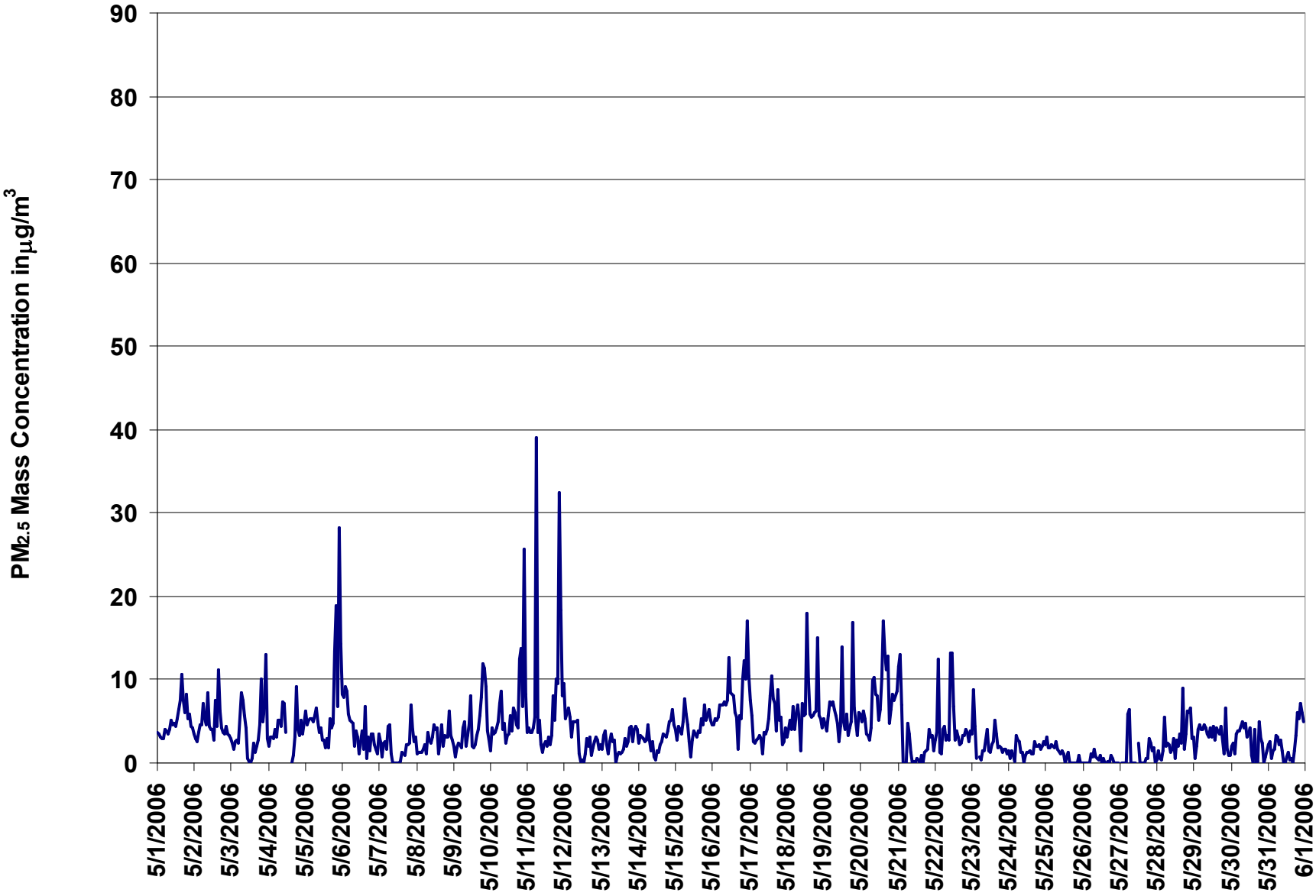


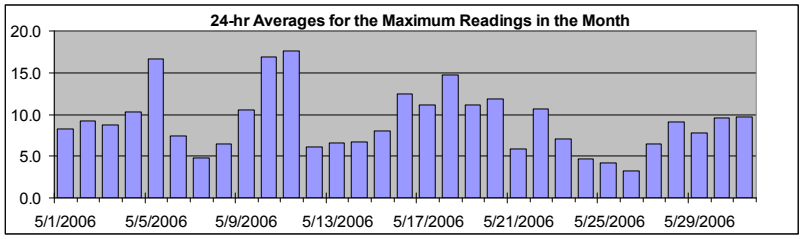
Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	107.5	µg/m³	11-May	6:00 7:00
Maximum 24-hr Value:	17.6	µg/m³	11-May	

AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	46.7	23.7	10.1	6.6	4.9	2.5	1.0	9.2 / 7 µg/m˘	8.5 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	5	5	4	4	5	8	6	5	6	7	7	6	6	7	9	21	17	10	7	24	8	9	6	5	8.3	24.5
2-May-06	5	4	4	5	7	6	12	8	8	27	15	11	10	6	14	8	20	11	7	5	6	12	8	5	9.3	26.8
3-May-06	5	5	4	4	5	5	11	12	8	6	4	3	4	4	7	7	7	7	18	25	13	8	35	4	8.8	35.3
4-May-06	3	5	5	4	5	6	8	12	9	35	20	14	C	C	C	2	3	12	29	9	5	16	7	8	10.4	35.3
5-May-06	9	6	6	7	7	7	8	12	8	10	11	6	5	4	5	6	9	11	15	49	66	19	76	40	16.6	76.2
6-May-06	11	10	11	10	8	6	7	6	5	8	8	4	11	7	7	20	2	9	4	7	5	4	4	5	7.5	19.6
7-May-06	8	5	3	4	5	4	9	8	6	2	1	3	2	4	3	6	3	6	3	5	11	6	4	5	4.8	10.7
8-May-06	3	3	2	3	4	4	4	6	5	6	6	10	7	12	4	6	12	6	6	6	5	22	10	5	6.5	21.9
9-May-06	4	3	5	4	3	3	10	13	4	9	18	20	4	4	4	8	8	16	27	23	38	15	6	5	10.5	37.7
10-May-06	4	5	5	5	6	9	13	16	7	9	11	10	6	14	8	17	11	9	6	43	55	11	93	32	16.9	93.2
11-May-06	5	5	5	6	6	13	107	12	12	16	3	5	4	4	6	5	6	16	14	26	40	48	43	14	17.6	107.5
12-May-06	14	7	11	9	5	6	7	7	7	4	5	5	2	5	6	5	6	3	4	5	6	6	6	6	6.1	14.1
13-May-06	4	5	6	4	4	4	6	7	10	2	5	3	5	6	5	9	5	7	12	10	9	12	10	8	6.6	12.5
14-May-06	8	10	5	5	5	4	9	5	4	7	5	4	5	6	7	5	6	6	6	9	8	9	14	8	6.7	13.7
15-May-06	7	5	10	7	6	7	13	8	8	6	5	6	9	9	8	7	9	10	9	11	7	8	9	8	8.0	12.9
16-May-06	7	6	8	8	7	9	9	9	10	10	10	24	12	13	11	11	11	13	11	20	17	13	32	17	12.5	31.9
17-May-06	13	8	5	5	5	6	6	6	7	9	7	7	14	24	27	16	17	8	30	11	20	5	5	6	11.1	29.7
18-May-06	5	6	7	5	16	8	16	20	11	6	14	10	10	64	37	9	9	9	9	9	44	11	8	7	14.7	64.0
19-May-06	8	7	6	7	9	10	10	9	10	8	7	9	37	9	7	12	6	7	12	41	13	10	6	9	11.1	40.6
20-May-06	9	11	8	8	5	5	5	9	12	13	14	11	10	12	19	22	18	14	36	7	10	9	9	10	11.9	36.0
21-May-06	16	15	12	0	1	6	9	9	6	4	4	3	4	4	3	4	2	5	6	5	6	7	5	3	5.9	15.6
22-May-06	5	13	30	4	6	7	9	5	9	11	35	22	21	7	8	9	7	6	6	5	11	10	4	6	10.7	34.7
23-May-06	8	15	9	3	N	4	2	4	3	11	12	5	5	7	8	21	13	9	5	5	3	3	4	3	7.0	21.2
24-May-06	3	3	3	2	1	6	5	6	4	6	6	5	5	6	6	5	6	7	5	4	4	5	4	5	4.7	7.1
25-May-06	5	6	3	3	3	4	3	4	4	6	3	6	6	7	6	4	7	4	3	3	3	3	1	1	4.2	7.2
26-May-06	0	0	1	1	1	3	2	3	4	4	5	5	5	7	3	9	5	8	4	4	1	2	0	1	3.2	8.8
27-May-06	D	2	2	1	2	15	15	8	4	5	8	D	17	4	4	5	9	5	5	8	11	6	4	1	6.4	16.8
28-May-06	2	5	4	2	5	11	4	6	6	6	6	9	7	13	7	11	10	23	10	9	14	24	14	10	9.1	23.8
29-May-06	9	3	5	6	7	6	5	7	9	8	9	10	8	12	9	14	12	6	8	6	13	7	4	3	7.8	14.5
30-May-06	4	4	5	7	7	6	7	8	12	10	9	22	22	16	6	20	7	7	15	14	11	6	2	4	9.6	22.2
31-May-06	5	4	3	4	3	5	5	5	7	6	7	6	5	9	6	7	7	6	10	29	22	19	26	28	9.7	28.7
Hourly Avg	6.5	6.2	6.3	4.8	5.4	6.5	11.0	8.2	7.3	8.9	9.0	8.7	9.0	10.2	8.7	10.0	8.7	9.0	11.1	14.1	15.6	11.2	14.9	8.8		
Hourly Max	15.6	15.0	29.7	10.0	15.9	15.2	107.5	20.0	12.1	35.3	34.7	24.2	36.6	64.0	37.4	21.8	20.2	22.9	36.0	48.5	66.0	48.3	93.2	40.3		

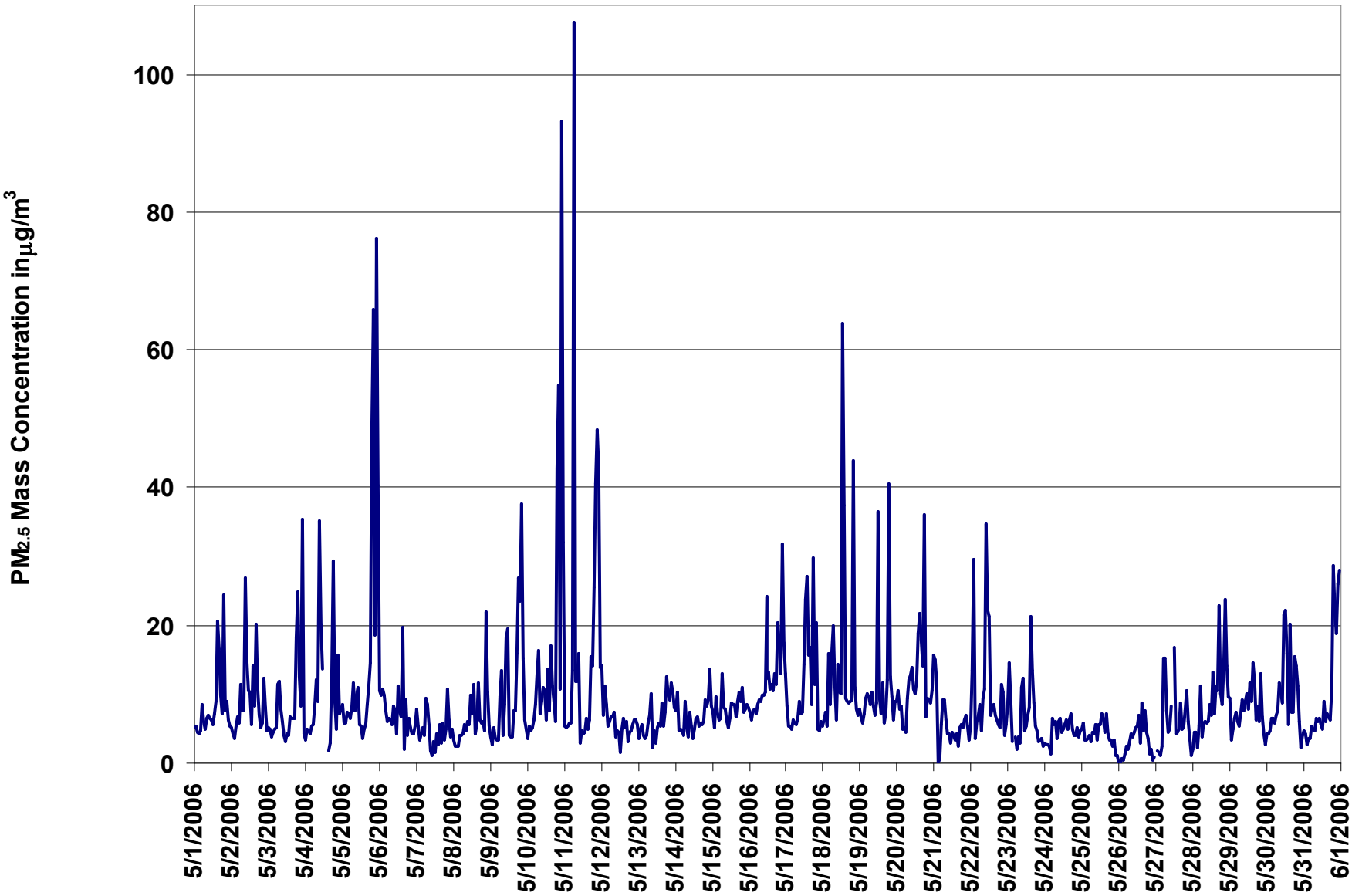
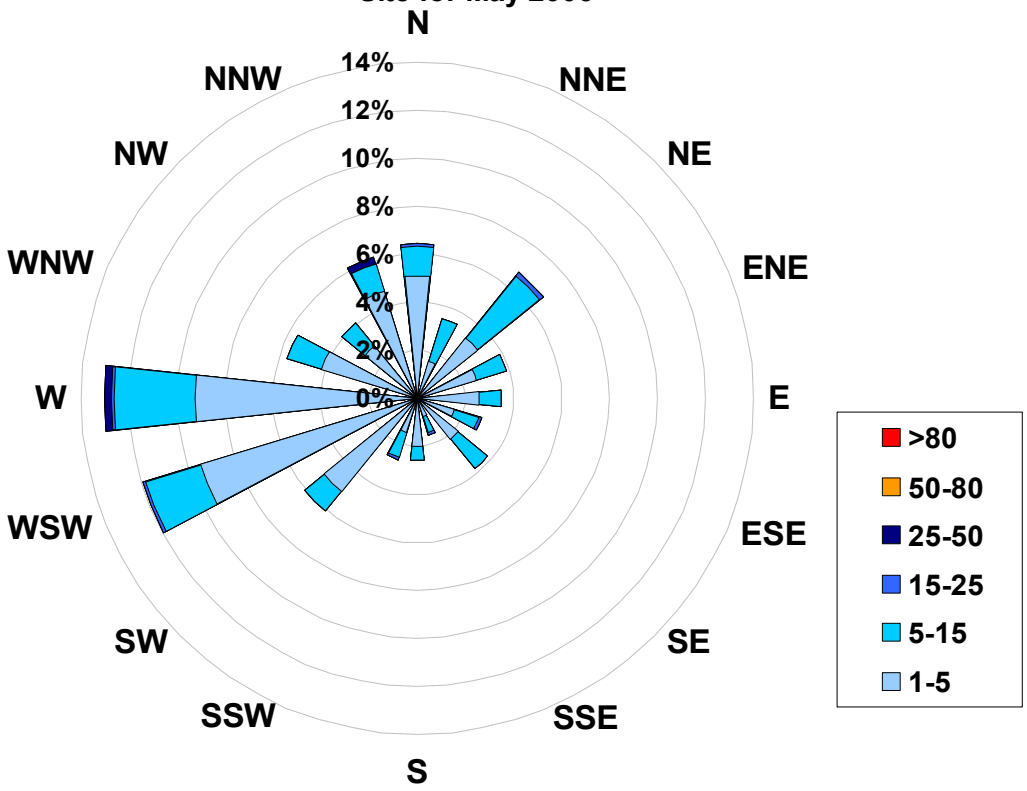


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 May 2006



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	545
5	to	15	182
15	to	25	7
25	to	50	4
50	to	80	0
	>	80	0
Total Non-Zero Values			738

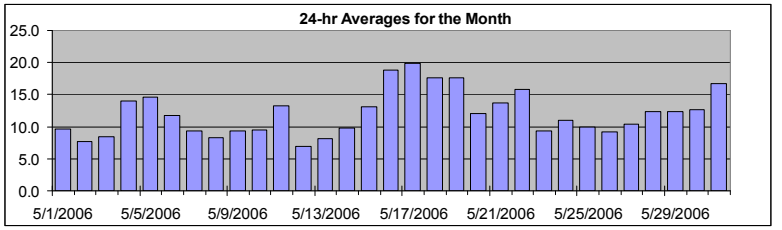
PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	28.6	°C	16-May	17:00 18:00
Maximum 24-hr Value:	19.9	°C	17-May	

AIC Time:	0 hrs	Operational Time:	743 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average	Median
	24.8	22.3	15.6	11.4	8.3	3.2	-0.1	12.0 °C	11.4 °C

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	8	8	7	7	5	5	6	7	8	9	10	12	13	14	13	14	13	12	12	11	10	9	9	8	9.6	13.8
2-May-06	8	7	7	7	6	5	5	6	7	7	9	9	10	11	9	9	10	10	9	9	8	7	5	4	7.6	10.6
3-May-06	5	2	0	-2	-2	-3	1	4	7	9	11	13	13	14	15	15	16	16	16	15	12	10	8	9	8.4	16.1
4-May-06	9	7	7	6	5	6	7	10	13	16	17	19	20	21	21	20	20	19	19	19	17	14	11	10	13.9	21.3
5-May-06	10	10	12	10	10	10	11	12	15	16	17	18	19	18	19	20	20	20	19	18	15	13	11	9	14.6	19.9
6-May-06	11	12	10	8	9	8	9	11	14	15	15	15	16	16	16	15	14	13	13	13	10	8	6	5	11.7	15.8
7-May-06	3	2	1	0	3	5	5	7	10	12	13	13	14	14	15	15	14	14	13	14	12	10	9	8	9.4	15.3
8-May-06	7	7	6	6	6	6	6	5	5	6	7	7	8	9	10	12	11	12	12	12	11	10	10	8	8.2	11.9
9-May-06	6	7	7	4	3	3	5	6	8	10	10	12	14	14	14	14	15	14	15	14	11	8	6	3	9.3	14.9
10-May-06	1	1	0	-1	-1	-1	3	6	9	11	12	14	15	16	16	17	17	17	16	15	14	12	10	10	9.5	17.0
11-May-06	10	7	8	7	6	6	9	12	11	14	16	17	18	18	19	20	19	17	17	16	14	12	12	13	13.3	19.9
12-May-06	10	9	8	8	8	7	7	7	7	8	7	6	6	6	7	7	7	8	8	8	7	4	3	2	6.9	9.7
13-May-06	1	1	1	1	1	0	2	4	7	9	10	11	12	13	14	15	15	15	14	13	13	11	8	7	8.2	15.0
14-May-06	4	4	2	2	0	1	4	7	10	12	13	13	14	15	15	16	17	17	17	16	14	10	7	6	9.8	17.5
15-May-06	7	8	6	2	1	1	6	7	10	14	16	18	19	21	21	22	22	22	21	20	17	13	11	10	13.2	22.0
16-May-06	9	9	9	9	8	8	10	12	14	17	19	22	24	26	27	28	28	29	28	27	23	22	21	21	18.8	28.6
17-May-06	19	18	17	14	13	13	15	18	21	22	23	23	23	23	23	24	25	25	24	24	22	20	18	17	15	19.9	24.8
18-May-06	14	13	12	12	12	11	12	15	17	19	21	21	22	22	23	23	23	23	23	22	20	18	16	17	17	17.6	23.0
19-May-06	16	15	15	13	13	12	13	14	17	20	22	23	23	23	23	23	22	21	20	17	15	14	14	14	17.6	23.5
20-May-06	13	14	12	11	11	11	11	12	13	13	13	13	13	13	13	12	12	12	12	11	11	11	11	11	12.0	13.7
21-May-06	11	11	11	10	9	10	10	12	13	13	15	16	16	17	18	19	19	18	17	16	14	12	11	11	13.7	18.9
22-May-06	9	9	9	8	6	5	9	12	15	16	18	19	20	21	22	22	23	22	21	20	19	17	17	16	15.7	22.8
23-May-06	16	13	11	10	N	8	8	7	7	8	8	8	8	9	10	9	9	10	10	9	9	9	9	9	9.3	15.5
24-May-06	8	8	8	8	8	8	9	9	10	10	12	12	12	13	14	14	14	14	13	13	12	11	11	10	10.9	14.3
25-May-06	10	9	9	9	9	9	9	10	10	10	10	10	10	10	11	12	12	11	11	11	10	9	8	8	10.0	11.9
26-May-06	8	7	7	7	7	8	8	8	9	9	10	10	11	10	11	12	11	11	11	10	10	9	8	7	9.2	11.6
27-May-06	6	4	4	3	2	3	8	10	12	13	12	12	12	13	15	16	16	16	16	15	14	11	11	9	10.5	16.1
28-May-06	7	6	6	4	4	5	8	10	12	14	16	17	18	18	19	19	19	14	15	16	13	11	11	11	12.3	19.4
29-May-06	11	9	8	7	8	9	10	9	10	12	13	14	15	15	16	17	17	17	16	16	15	13	11	9	12.3	17.1
30-May-06	8	9	7	7	7	8	8	9	11	13	14	15	13	13	16	18	18	19	18	18	16	13	12	11	12.6	18.7
31-May-06	11	11	10	9	8	9	12	14	16	18	19	20	21	22	22	23	23	23	23	23	21	16	14	13	16.8	23.4
Hourly Avg	8.8	8.2	7.6	6.8	6.2	6.3	7.9	9.4	11.2	12.7	13.8	14.6	15.2	15.8	16.4	16.8	16.8	16.5	16.1	15.4	13.7	11.8	10.6	9.8		
Hourly Max	19.3	17.7	16.9	14.5	13.4	12.7	15.3	17.5	21.1	22.2	23.1	23.2	24.0	26.1	27.2	28.0	28.4	28.6	28.3	27.0	23.4	22.5	20.6	21.1		

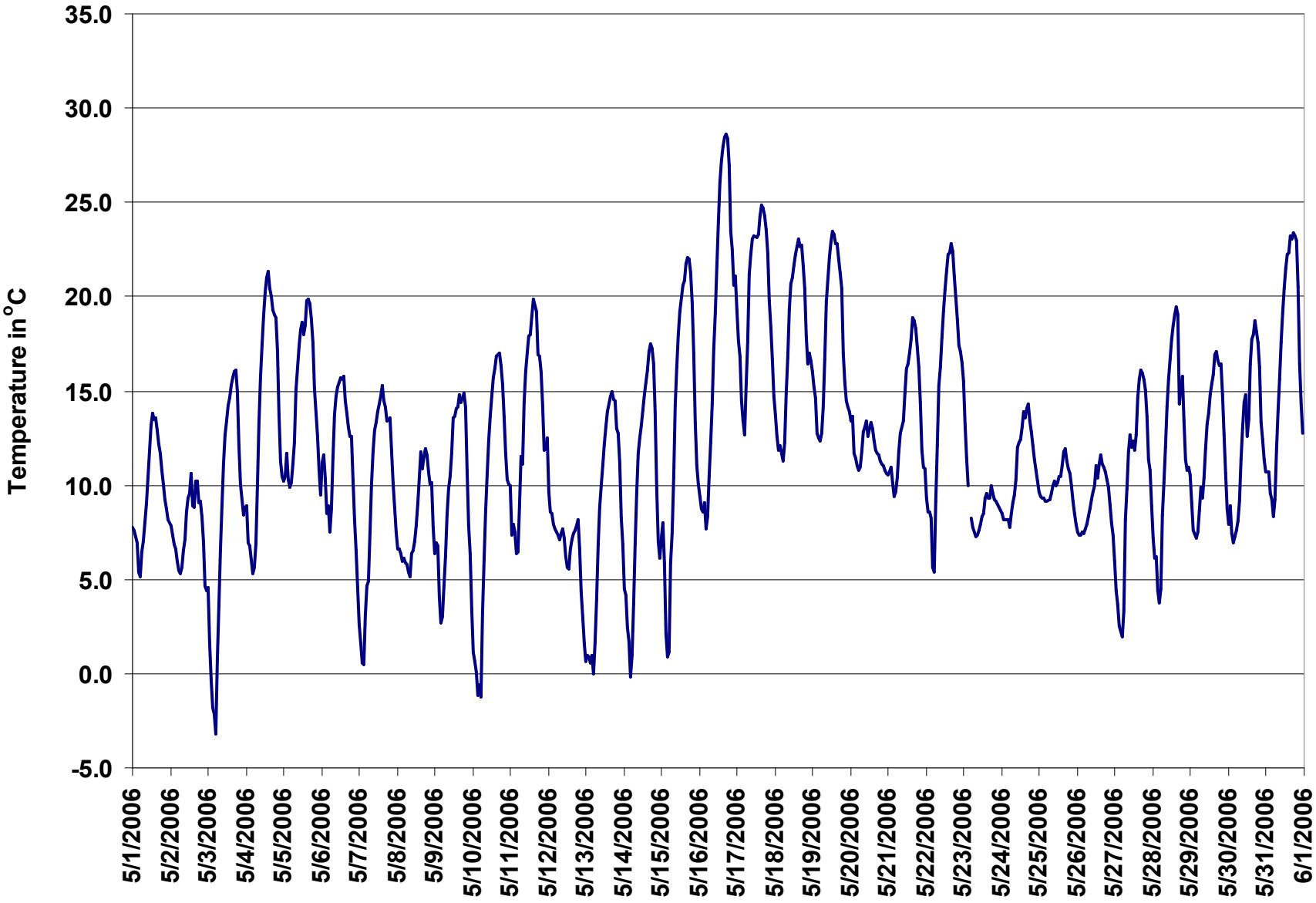


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

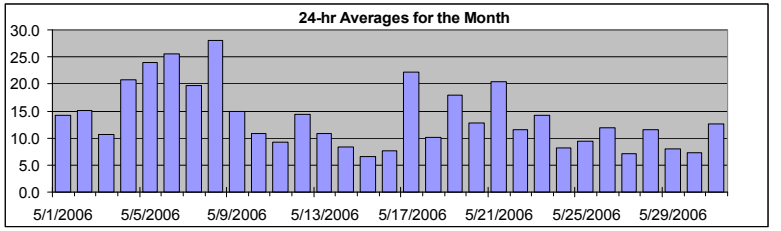
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	41.8	km/hr	6-May	11:00 12:00
Maximum 24-hr Value:	28.0	km/hr	8-May	

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

Percentile	99	95	75	50	25	5	1	AverageS
	36.8	31.8	17.4	11.8	7.8	4.2	2.7	13.7 km/hr

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-06	16	18	14	13	7	8	8	11	13	11	12	12	11	9	10	12	12	16	20	21	22	23	22	21	14.3	23.4
2-May-06	17	14	11	22	22	18	10	13	12	16	13	15	13	19	19	21	20	21	15	15	10	6	9	13	15.1	22.4
3-May-06	4	5	9	7	7	4	4	6	7	9	12	11	15	15	14	13	15	16	13	12	12	14	15	17	10.7	16.8
4-May-06	16	18	19	18	17	15	14	17	19	21	23	21	25	30	30	35	31	21	17	22	26	18	13	11	20.7	35.1
5-May-06	13	15	15	14	18	14	21	20	27	34	33	33	41	40	37	37	34	32	31	26	14	8	9	10	24.0	41.3
6-May-06	15	14	12	13	17	14	18	20	27	32	37	42	39	37	32	31	40	37	29	36	25	17	15	13	25.5	41.8
7-May-06	12	9	6	8	7	7	11	8	18	25	28	35	36	34	30	26	23	22	18	12	18	23	30	30	19.7	36.0
8-May-06	30	31	33	26	31	31	32	37	32	30	30	31	30	32	33	30	29	34	28	17	12	13	18	22	28.0	37.2
9-May-06	22	25	27	20	17	18	16	15	15	15	15	15	15	19	16	12	14	11	8	6	4	13	12	9	14.9	26.5
10-May-06	9	10	6	10	9	8	8	9	12	10	16	15	10	15	15	10	13	11	10	8	10	12	12	11	10.8	16.2
11-May-06	12	12	10	6	4	4	6	8	6	9	11	11	13	11	12	11	12	20	7	7	4	5	8	12	9.2	19.8
12-May-06	8	9	9	8	12	12	13	11	10	12	6	22	26	26	23	30	29	30	23	11	5	3	4	5	14.4	29.7
13-May-06	7	9	9	7	11	8	5	10	18	23	21	17	16	16	13	9	7	9	6	8	11	8	6	7	10.9	23.1
14-May-06	4	8	6	6	10	6	8	8	10	10	12	14	13	14	13	11	7	5	5	7	7	5	8	7	8.4	13.7
15-May-06	7	9	5	2	2	3	5	6	6	4	7	6	6	6	8	8	6	10	11	12	10	7	7	7	6.6	12.2
16-May-06	5	5	6	7	10	11	11	11	7	5	7	7	7	5	5	7	6	5	4	6	8	10	15	14	7.7	14.8
17-May-06	13	12	14	11	13	14	8	14	24	32	35	35	35	33	32	36	34	33	28	22	12	15	13	12	22.2	35.8
18-May-06	13	13	12	16	12	10	12	5	7	6	9	12	13	13	11	9	12	10	9	9	7	7	9	11	10.2	15.6
19-May-06	11	12	11	8	7	8	13	13	11	11	22	26	24	25	26	26	28	27	24	22	24	17	22	15	17.9	27.5
20-May-06	11	14	13	14	18	15	13	13	21	22	20	14	13	15	15	12	7	7	10	10	9	7	9	8	12.9	21.7
21-May-06	10	13	14	15	11	23	27	27	27	28	26	31	29	23	23	25	27	27	24	19	12	9	11	10	20.5	31.5
22-May-06	5	4	8	5	6	5	7	5	5	9	10	9	11	12	12	15	16	18	17	16	19	20	21	23	11.5	23.0
23-May-06	22	15	17	21	N	20	20	18	18	18	14	13	14	16	15	11	12	12	11	8	8	6	8	9	14.2	22.3
24-May-06	10	14	9	8	9	5	7	7	5	6	5	4	6	9	9	9	8	10	11	11	11	9	7	8	8.2	14.2
25-May-06	9	7	7	9	10	11	7	9	9	8	7	6	8	9	9	9	12	14	11	10	11	9	12	12	9.4	14.0
26-May-06	10	11	12	11	13	11	13	13	14	15	15	15	16	15	15	16	15	14	10	10	8	4	4	4	11.8	16.4
27-May-06	5	5	2	2	2	3	2	3	4	8	13	14	17	19	8	6	6	6	7	7	7	8	10	5	7.1	19.1
28-May-06	3	8	7	2	3	3	6	10	14	19	20	17	18	19	18	15	16	30	21	10	6	4	4	3	11.5	30.1
29-May-06	5	7	5	7	5	5	9	6	3	5	6	7	8	10	10	13	11	11	12	13	6	13	12	8	8.1	12.8
30-May-06	9	12	11	7	7	4	4	3	3	5	5	7	7	11	6	9	8	6	7	5	5	10	12	12	7.3	12.2
31-May-06	14	13	13	15	12	10	10	16	16	16	18	19	18	18	18	19	16	12	10	5	3	3	4	5	12.6	19.5
1-hr Average	11.2	11.9	11.3	10.9	10.9	10.7	11.2	12.1	13.6	15.3	16.4	17.2	17.7	18.5	17.3	17.2	16.9	17.3	14.7	13.0	11.1	10.5	11.6	11.3		
Hourly Max	30.1	30.8	33.0	26.5	30.8	31.5	31.9	37.2	31.9	33.8	36.8	41.8	41.3	39.7	37.2	36.7	40.0	36.7	30.7	35.9	25.9	23.4	29.6	29.6		

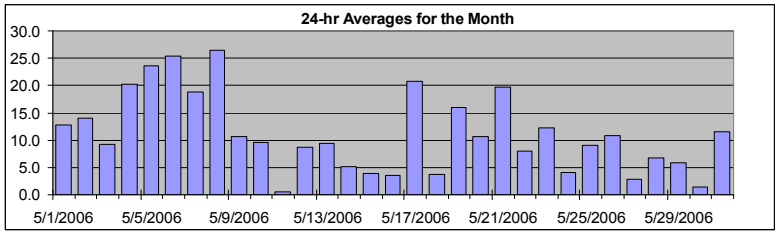
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	41.3	km/hr	6-May	11:00 12:00
Maximum 24-hr Value:	26.5	km/hr	8-May	

Calm Time:	3 hrs	**0%** calms	Operational Time: 740 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 99.9%

Percentile	99	95	75	50	25	5	1	AverageV
	36.4	31.4	17.1	11.2	7.0	2.8	1.4	5.6 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-06	15	18	14	13	6	7	8	11	13	11	12	11	10	7	8	9	10	15	19	21	21	23	22	21	12.8	23.3
2-May-06	16	14	10	22	22	18	9	13	11	15	11	14	12	18	18	20	20	21	15	15	9	5	9	13	14.1	22.3
3-May-06	3	5	9	7	7	2	4	6	7	9	11	10	12	13	11	12	14	15	12	12	11	14	15	17	9.2	16.8
4-May-06	16	18	19	17	17	15	14	17	19	21	22	20	23	29	29	35	31	20	17	20	26	17	13	11	20.3	34.8
5-May-06	13	15	15	14	17	14	21	20	26	34	33	33	41	39	37	36	34	31	31	26	14	8	9	10	23.6	40.8
6-May-06	15	14	12	13	17	14	18	19	27	32	36	41	38	36	31	30	40	36	29	36	25	17	15	13	25.3	41.3
7-May-06	12	8	5	8	6	5	9	5	17	24	27	33	35	33	29	25	23	22	18	12	18	23	29	30	18.9	35.5
8-May-06	30	31	33	26	31	31	32	37	32	29	30	30	29	32	32	30	28	34	27	17	12	13	18	22	26.5	37.1
9-May-06	22	25	26	20	16	17	15	14	15	15	14	13	14	17	15	11	9	10	6	5	3	13	12	9	10.6	26.1
10-May-06	9	10	6	10	9	8	8	9	12	9	16	14	9	14	13	8	11	9	9	7	9	11	12	10	9.6	15.5
11-May-06	12	12	9	3	2	3	6	7	3	7	9	9	11	9	9	6	10	19	7	1	4	3	7	9	0.5	18.9
12-May-06	7	9	6	7	12	12	13	11	9	12	2	22	26	26	23	29	29	30	23	10	4	2	3	3	8.7	29.6
13-May-06	7	9	9	7	11	8	5	10	18	23	20	16	15	14	12	5	5	8	4	7	8	2	4	6	9.4	22.9
14-May-06	3	7	5	5	9	6	8	8	10	9	11	13	11	12	12	10	3	2	4	6	7	3	8	6	5.1	12.9
15-May-06	7	9	3	calm	2	1	1	6	6	3	6	5	4	3	2	7	3	9	11	12	10	7	6	7	3.9	12.2
16-May-06	5	5	6	7	10	11	11	11	7	2	6	6	5	3	2	3	4	4	3	6	8	9	13	12	3.5	13.4
17-May-06	12	11	14	10	13	13	7	14	24	32	35	35	35	33	32	35	34	32	28	22	12	15	13	12	20.8	35.4
18-May-06	13	13	12	15	11	10	9	2	6	calm	7	11	12	11	10	8	11	10	9	9	7	7	8	10	3.7	15.1
19-May-06	11	12	11	8	7	8	13	13	11	11	21	25	23	25	26	25	27	27	23	18	23	17	22	15	16.1	27.1
20-May-06	10	14	13	14	18	15	13	13	21	21	19	13	12	14	14	12	6	7	10	10	9	7	9	8	10.6	21.5
21-May-06	9	12	13	14	11	23	27	27	27	27	26	31	28	22	23	25	26	26	24	19	12	8	11	10	19.6	31.0
22-May-06	5	3	8	2	4	5	6	5	4	8	9	9	9	10	12	14	16	17	16	16	19	20	21	23	8.1	22.9
23-May-06	22	15	17	21	N	20	20	18	18	18	8	12	14	16	14	10	12	12	10	8	8	6	8	9	12.2	22.2
24-May-06	10	14	9	7	8	2	6	5	5	5	3	1	5	8	8	8	7	10	11	11	11	9	6	8	4.0	14.1
25-May-06	9	6	7	8	10	10	7	9	9	8	7	6	8	9	9	9	12	14	11	10	11	9	11	12	9.0	13.6
26-May-06	10	11	12	11	13	11	13	13	13	15	15	14	15	15	14	16	15	13	10	10	8	3	4	4	10.9	16.2
27-May-06	5	4	1	1	2	3	1	3	3	5	12	13	12	19	7	4	4	5	6	7	7	8	10	3	2.9	18.9
28-May-06	3	8	5	1	2	3	5	10	14	19	20	16	17	18	17	13	16	29	21	7	3	3	3	1	6.8	28.9
29-May-06	2	6	4	6	2	4	9	5	calm	4	4	6	7	9	9	12	10	10	12	12	6	12	12	8	5.9	12.1
30-May-06	9	12	11	5	6	2	3	2	2	4	3	5	4	7	1	2	5	5	7	5	3	10	12	11	1.4	12.2
31-May-06	14	13	13	15	12	9	10	16	16	15	18	18	17	18	18	19	15	12	10	4	3	2	3	4	11.6	19.0
1-hr Vector	6.4	7.4	6.3	5.7	6.0	5.2	5.0	5.0	5.4	5.2	6.2	7.7	6.7	6.9	6.3	6.6	7.6	7.7	5.3	3.6	2.6	2.4	4.8	5.8		
Hourly Max	30.1	30.8	32.9	26.4	30.7	31.4	31.8	37.1	31.8	33.5	36.4	41.3	40.8	39.4	36.9	36.1	39.8	36.4	30.5	35.8	25.8	23.3	29.4	29.6		

PASZA - Smoky Heights - Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

Summary

Calm Time:	0 hrs	**0%** calms		Operational Time:		743 hrs		
Calibration Time:	0 hrs			AMD Operational Uptime:		99.9%		
Percentile	99	95	75	50	25	5	1	Average
	357.5	347.9	276.0	242.8	103.7	18.5	2.6	279 deg

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-06	311	328	346	360	39	8	353	357	360	357	6	16	17	55	355	336	342	339	326	314	315	315	314	311	339	NNW
2-May-06	333	334	306	320	326	303	271	308	297	300	305	311	332	309	356	340	330	339	348	354	5	336	294	303	323	NW
3-May-06	8	234	278	279	290	224	182	206	204	176	212	208	215	236	220	216	220	223	213	199	237	254	269	266	230	SW
4-May-06	252	247	251	252	254	264	252	264	261	258	259	275	269	260	257	259	260	248	216	238	256	260	267	271	256	WSW
5-May-06	269	267	247	230	237	262	246	249	249	252	254	249	258	251	251	252	262	273	276	276	275	276	271	265	257	WSW
6-May-06	249	239	248	261	250	259	259	250	255	250	246	251	256	259	255	255	268	263	262	260	255	254	253	263	256	WSW
7-May-06	267	236	250	193	219	234	271	232	253	249	244	265	263	259	258	264	264	253	228	217	218	222	256	257	250	WSW
8-May-06	260	262	264	265	264	262	266	271	267	289	295	292	297	299	295	301	316	299	313	319	302	293	288	269	284	WNW
9-May-06	269	282	284	261	260	261	280	281	315	328	342	349	3	344	339	344	319	330	311	284	320	167	178	214	297	WNW
10-May-06	243	238	242	269	224	236	232	203	228	188	202	233	243	251	259	253	225	184	179	231	267	258	272	287	236	SW
11-May-06	293	276	308	124	131	331	346	20	47	60	93	84	90	117	143	108	161	218	299	256	42	331	244	279	116	ESE
12-May-06	8	341	46	39	13	7	358	7	32	103	154	258	265	271	274	273	274	277	288	295	350	111	336	295	298	WNW
13-May-06	250	241	258	250	244	214	217	239	262	258	251	243	248	224	178	196	282	271	175	166	292	211	188	275	240	WSW
14-May-06	245	280	199	239	245	251	209	220	237	189	202	219	222	231	255	281	299	119	114	93	106	58	313	319	233	SW
15-May-06	332	323	328	258	1	235	35	150	137	85	63	10	149	93	167	82	23	42	56	53	50	32	30	32	49	NE
16-May-06	20	8	18	25	27	33	37	37	42	91	137	143	112	83	126	147	174	159	202	68	62	86	207	195	84	E
17-May-06	263	269	230	239	232	226	209	223	261	272	273	275	277	278	281	284	285	283	292	294	300	307	287	266	273	W
18-May-06	269	263	259	272	261	244	271	263	149	117	12	359	2	9	358	12	19	41	55	70	51	53	80	83	347	NNW
19-May-06	79	75	68	33	22	35	39	43	51	68	94	95	97	88	79	72	75	70	75	147	103	94	115	134	83	E
20-May-06	43	56	47	59	62	73	78	94	132	136	146	142	113	117	131	124	120	72	98	118	105	115	144	175	105	ESE
21-May-06	213	226	242	250	263	274	270	264	255	250	242	247	242	243	246	251	255	258	258	249	230	189	201	222	248	WSW
22-May-06	218	217	186	249	274	223	239	290	59	58	55	64	61	55	48	46	48	54	45	43	45	41	41	46	47	NE
23-May-06	47	47	43	30	N	31	32	31	35	35	9	342	344	354	352	332	345	345	355	346	334	322	300	290	11	N
24-May-06	276	287	297	323	354	39	273	328	19	55	160	104	72	51	87	96	74	54	68	76	74	55	3	355	33	NNE
25-May-06	356	330	352	349	304	314	329	329	336	345	3	358	7	359	5	352	340	346	354	357	349	6	6	1	348	NNW
26-May-06	0	354	351	3	356	7	10	22	21	10	32	36	40	38	40	36	36	56	45	49	95	49	355	316	25	NNE
27-May-06	314	331	301	280	284	311	139	156	115	166	281	302	97	121	128	126	61	78	116	105	90	83	124	120	107	ESE
28-May-06	90	182	185	170	347	51	72	137	143	149	146	150	148	138	144	130	144	249	269	233	39	26	281	187	161	SSE
29-May-06	4	292	252	227	214	7	348	345	297	298	357	19	11	1	348	349	1	359	356	344	9	255	281	297	334	NNW
30-May-06	271	270	269	255	192	184	189	141	125	55	141	133	346	305	43	87	97	89	113	126	20	253	258	266	239	WSW
31-May-06	274	273	271	277	275	240	217	240	246	240	249	244	253	247	235	246	262	255	239	192	134	187	302	356	251	WSW
Hourly Avg	290	282	280	285	278	285	284	277	267	260	255	267	274	275	272	283	291	289	297	283	323	286	274	278		

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

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2006 to June 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

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

Percentile	99	95	75	50	25	5	1
	54.8	41.6	19.6	9.7	6.2	3.3	1.8

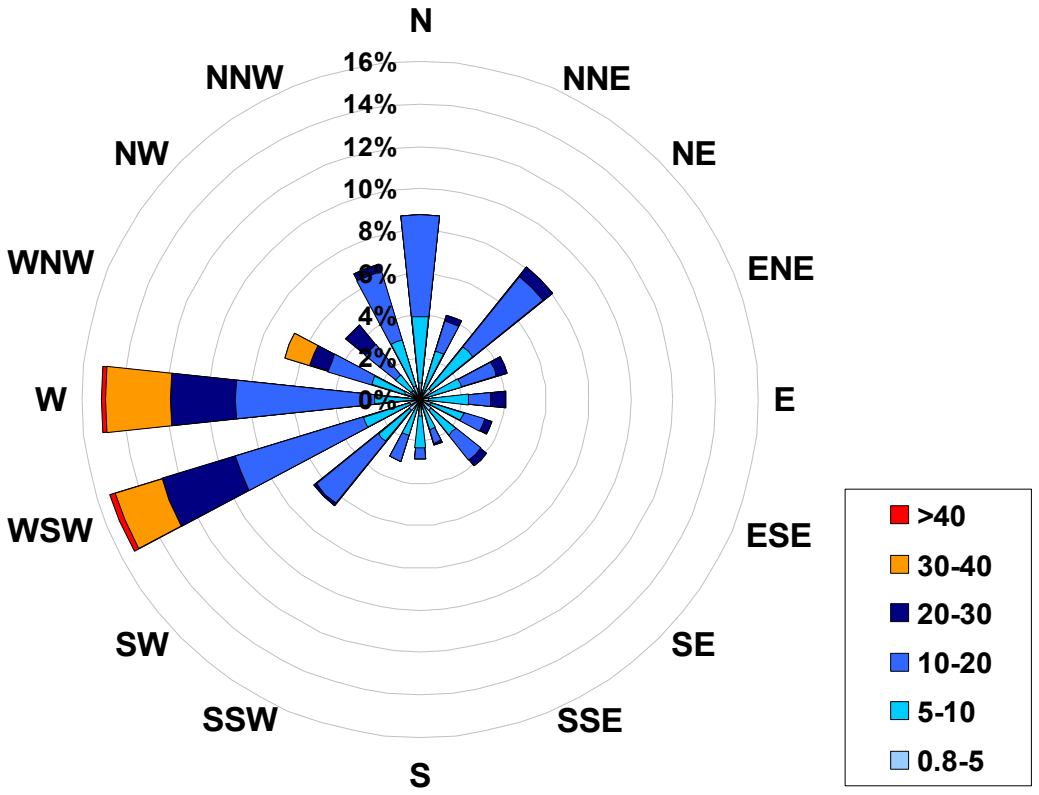
Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	5	4	5	6	14	9	11	8	9	11	16	20	23	38	42	33	31	17	12	6	6	5	5	4	41.6
2-May-06	6	9	13	5	5	7	23	10	23	13	23	19	19	15	11	8	9	10	7	7	9	11	6	7	22.7
3-May-06	30	17	6	8	15	40	22	13	20	20	19	24	31	20	37	27	17	18	13	6	4	1	3	1	39.8
4-May-06	2	1	1	1	2	3	2	5	6	9	12	16	16	12	14	6	6	6	6	8	3	3	4	2	15.6
5-May-06	2	2	4	2	5	4	3	5	7	5	6	8	9	6	6	8	8	8	6	4	4	5	4	8	8.6
6-May-06	4	5	3	7	3	5	4	5	8	8	8	8	9	9	9	10	5	7	6	5	3	3	3	5	10.5
7-May-06	3	17	13	7	27	37	26	18	12	12	8	11	10	12	12	14	8	9	6	8	6	4	5	4	37.4
8-May-06	3	3	3	3	4	4	3	4	4	7	7	7	7	6	7	9	13	6	7	7	3	3	7	2	13.2
9-May-06	2	4	7	4	5	4	7	9	11	12	16	20	18	17	21	24	26	23	36	16	35	9	11	5	36.0
10-May-06	6	6	9	4	13	5	6	9	10	17	13	19	42	23	29	42	23	23	15	16	11	9	7	8	42.1
11-May-06	9	7	12	29	44	30	15	24	37	34	31	43	33	41	35	43	25	10	12	57	20	37	35	17	56.7
12-May-06	11	9	11	7	7	7	5	7	15	8	42	6	5	4	6	4	5	4	5	5	23	25	23	19	41.8
13-May-06	17	5	3	5	5	5	11	8	6	7	10	16	19	25	20	49	38	20	30	20	34	16	38	20	48.9
14-May-06	32	31	27	19	10	20	9	12	15	15	24	20	26	22	25	23	46	40	44	9	6	22	14	9	46.1
15-May-06	17	4	34	33	41	27	18	12	14	52	32	46	56	52	70	30	60	19	13	6	5	6	7	7	69.5
16-May-06	7	8	10	9	6	4	5	7	17	39	22	35	46	64	73	47	46	38	28	15	7	10	34	22	73.4
17-May-06	9	14	6	9	8	21	21	5	8	6	7	7	6	7	8	7	6	7	6	4	5	3	6	6	21.0
18-May-06	4	2	4	9	14	8	35	43	29	55	40	19	18	27	24	32	20	16	10	8	6	8	8	9	55.4
19-May-06	8	6	9	9	11	9	4	5	8	13	11	11	13	10	7	8	8	8	11	13	9	7	6	9	13.3
20-May-06	17	7	5	4	4	4	5	8	8	8	8	6	10	9	8	5	10	7	7	5	8	9	5	7	17.2
21-May-06	11	7	4	5	7	3	3	4	6	7	9	9	11	11	10	11	10	9	7	6	5	8	9	9	11.4
22-May-06	14	23	12	26	29	14	12	25	45	18	19	26	31	24	17	15	15	11	6	5	5	4	5	5	44.7
23-May-06	5	8	4	5	N	5	4	4	4	4	35	9	7	7	8	9	10	11	12	10	9	10	5	4	34.5
24-May-06	4	3	4	7	9	33	27	16	22	31	43	49	34	18	27	20	17	10	10	7	6	6	8	7	48.5
25-May-06	7	15	14	10	4	5	7	7	11	10	11	13	9	11	11	14	10	8	8	10	8	9	7	6	14.8
26-May-06	6	5	6	7	6	6	6	6	7	6	8	8	11	10	9	7	8	10	8	9	8	15	7	15	15.5
27-May-06	7	30	53	25	17	15	47	34	34	25	14	14	36	8	31	48	47	43	34	14	4	5	6	26	52.9
28-May-06	25	16	32	32	34	35	21	10	10	11	13	16	12	15	16	20	12	11	9	25	12	24	14	41	40.6
29-May-06	32	40	24	18	41	15	8	21	35	38	34	32	38	23	19	21	15	13	9	12	15	18	10	11	41.4
30-May-06	13	4	5	27	24	40	43	24	65	54	44	38	36	35	31	53	48	26	14	21	37	16	3	2	64.6
31-May-06	2	2	2	2	3	7	7	8	9	10	11	12	14	16	13	11	11	12	11	13	10	16	32	22	32.3
Hourly Max	32	40	53	33	44	40	47	43	65	55	44	49	56	64	73	53	60	43	44	57	37	37	38	41	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	62
5	to	10	221
10	to	20	317
20	to	30	91
30	to	40	49
	>	40	3
Total Non-Zero Values			743

PASZA - Beaverlodge

Monthly Summary Tables, Graphs, and Roses

PASZA - Beaverlodge - AQI Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: May 1, 2006 to June 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:	608
Number of 1-hr Fair Readings:	89
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-May-06	22	21	20	17	N	9	16	18	19	22	24	26	26	25	25	25	25	25	23	22	21	21	20	19
2-May-06	18	18	18	19	N	21	21	20	20	21	19	20	21	22	21	22	23	23	23	23	22	21	21	16
3-May-06	14	17	14	13	N	11	11	11	14	18	22	25	25	24	24	24	25	26	25	23	22	21	20	20
4-May-06	20	18	19	18	N	18	16	17	20	24	23	23	22	23	23	23	24	24	23	21	18	19	19	18
5-May-06	17	16	15	14	N	17	18	19	20	21	21	22	23	21	22	22	22	23	23	22	21	20	18	24
6-May-06	24	24	22	21	N	17	21	24	23	25	28	28	26	25	23	24	25	28	28	27	24	24	23	23
7-May-06	22	21	22	20	N	17	15	20	23	24	24	26	29	32	31	31	31	30	30	27	25	24	24	24
8-May-06	24	23	22	22	N	21	22	21	21	21	20	21	21	22	23	24	24	24	24	23	22	21	20	20
9-May-06	20	20	20	19	N	18	18	19	20	21	22	23	23	24	24	25	25	24	21	20	19	18	18	18
10-May-06	17	17	17	16	N	14	16	15	15	16	20	23	25	26	26	25	26	25	25	23	24	22	24	24
11-May-06	23	22	19	20	N	11	10	15	22	23	24	26	27	28	29	29	30	29	30	29	26	27	24	23
12-May-06	23	22	16	16	N	12	14	18	18	18	18	20	21	20	20	19	20	22	23	22	22	19	19	19
13-May-06	19	18	18	18	N	16	16	20	21	23	24	25	26	27	27	27	26	26	25	24	23	21	21	17
14-May-06	17	20	17	16	N	16	15	16	18	20	23	24	27	29	30	30	31	31	31	28	28	26	25	27
15-May-06	26	24	21	17	N	17	9	13	18	22	29	30	32	35	37	38	39	38	37	33	29	29	26	25
16-May-06	25	25	25	26	N	16	12	13	18	20	23	26	31	33	33	33	32	30	28	25	25	22	19	19
17-May-06	18	19	17	17	N	15	12	16	21	24	24	23	22	23	24	23	23	23	24	25	25	25	25	25
18-May-06	24	24	23	23	N	24	18	22	27	29	30	31	30	30	30	29	30	29	29	27	24	22	22	21
19-May-06	22	20	19	19	N	21	20	20	20	21	23	25	27	28	30	30	22	22	21	26	25	24	N	22
20-May-06	21	20	19	17	N	23	14	14	14	14	14	14	15	14	14	13	14	13	12	13	11	9	9	9
21-May-06	N	N	N	N	N	20	17	16	N	N	N	22	23	24	24	24	24	24	24	23	22	20	20	21
22-May-06	16	16	16	15	N	15	9	11	18	22	23	24	25	25	25	24	24	24	24	25	25	23	N	17
23-May-06	15	13	13	12	N	12	13	13	13	13	13	13	13	N	13	14	14	14	14	14	14	15	13	14
24-May-06	12	12	10	10	N	7	9	10	12	14	15	14	16	16	18	17	17	18	17	16	14	17	16	13
25-May-06	13	11	12	13	N	10	11	14	16	19	22	N	N	N	N	N	19	N	19	18	16	16	15	13
26-May-06	11	13	15	15	N	14	12	12	13	12	11	11	12	12	11	12	13	12	12	12	11	10	10	9
27-May-06	9	8	7	5	N	3	3	4	7	13	15	16	16	17	18	19	19	20	20	19	16	14	12	12
28-May-06	13	11	12	12	N	7	8	10	11	12	14	14	16	18	20	22	22	22	20	20	18	17	18	17
29-May-06	15	11	13	13	N	8	8	9	10	10	11	12	13	14	16	18	19	19	16	16	17	14	12	11
30-May-06	10	9	5	5	N	3	4	5	9	12	16	19	18	20	20	21	21	20	18	17	15	14	14	16
31-May-06	14	14	14	12	N	9	11	12	13	16	18	18	18	18	19	20	21	22	22	21	17	19	19	17

PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

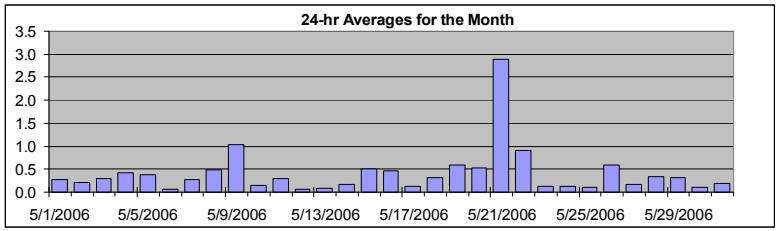
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	21.6	ppb	21-May	23:00 0:00
Maximum 24-hr Average:	2.9	ppb	21-May	

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
	4.4	1.3	0.3	0.2	0.1	0.0	0.0	0.4 ppb	0.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.5
2-May-06	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
3-May-06	0	0	0	0	A	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0.3	1.0
4-May-06	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0.4	1.6
5-May-06	1	1	1	1	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3
6-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
7-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0.3	1.3
8-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	0.5	3.0
9-May-06	3	2	5	3	A	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	4.8
10-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
11-May-06	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.8
12-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
13-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
14-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
15-May-06	0	1	1	1	A	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.3
16-May-06	0	0	0	0	A	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0.5	1.1
17-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
18-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.3	1.2
19-May-06	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0.6	1.4
20-May-06	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0.5	1.4
21-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20	12	6	4	22	2.9	21.6
22-May-06	2	0	0	2	A	3	2	5	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.9	5.0
23-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.1	0.5
24-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
25-May-06	0	0	0	0	A	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-May-06	0	2	5	2	A	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.6	4.9
27-May-06	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
28-May-06	0	0	0	0	A	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	1.0
29-May-06	0	0	0	0	A	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7
30-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
31-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
Hourly Avg	0.3	0.3	0.5	0.4	N	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.9	0.5	0.5	0.4	1.0		
Hourly Max	2.9	2.3	4.9	2.7	0.0	3.0	2.8	5.0	1.9	1.7	1.3	1.4	1.1	1.2	1.3	1.2	1.1	1.1	1.3	20.1	11.6	6.4	4.5	21.6		

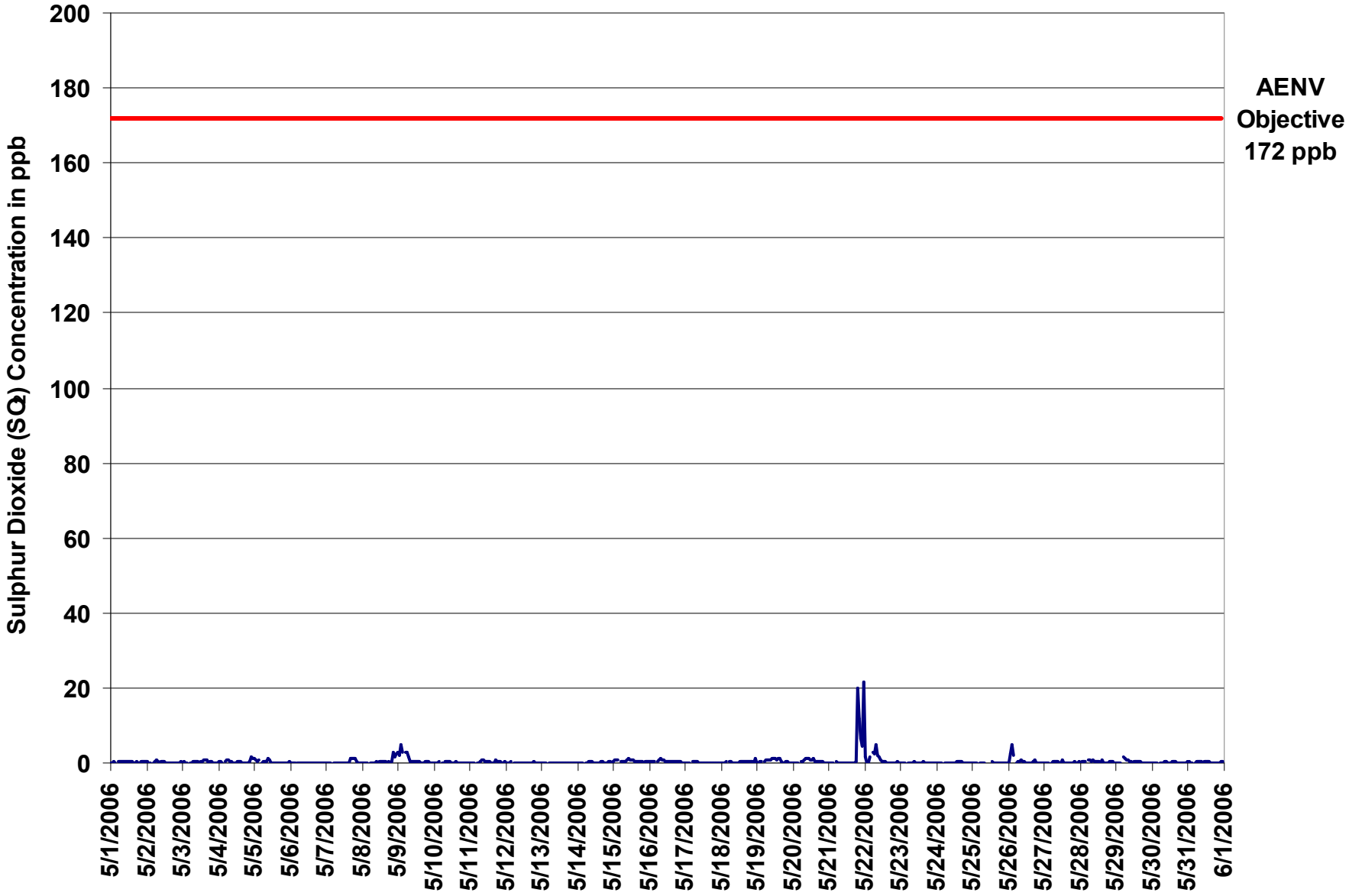


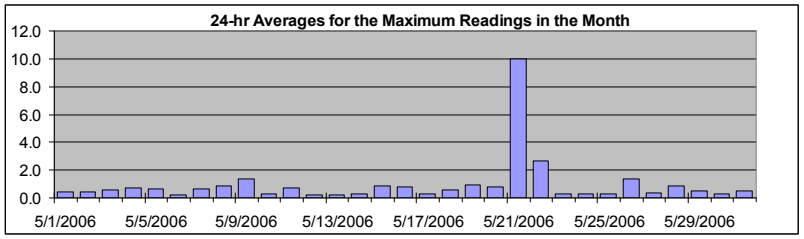
Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	51.9	ppb	21-May	19:00 20:00
Maximum 24-hr Value:	10.0	ppb	21-May	

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
	8.1	2.4	0.6	0.3	0.2	0.1	0.1	0.9 ppb	0.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	A	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0.4	0.7
2-May-06	0	0	0	0	A	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1
3-May-06	1	0	0	0	A	0	0	0	1	1	1	0	0	1	1	1	1	0	1	1	0	0	0	0	0.6	1.4
4-May-06	1	1	0	0	A	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	2	2	0.7	2.0
5-May-06	2	1	1	1	A	0	1	1	1	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0.6	1.8
6-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
7-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	3	2	3	3	1	0	0	0	0.7	3.0
8-May-06	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	5	3	3	0.8	4.8
9-May-06	3	3	7	3	A	3	3	2	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1.4	6.7
10-May-06	0	0	0	0	A	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
11-May-06	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	0	0	3	2	1	1	1	1	1	0.7	3.4
12-May-06	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.5
13-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
14-May-06	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.6
15-May-06	0	2	2	1	A	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0	1	0.9	2.1
16-May-06	1	0	1	1	A	1	1	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0.8	3.2
17-May-06	0	0	0	0	A	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	0.6
18-May-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	4	0.6	3.6
19-May-06	1	0	1	1	A	1	1	1	1	1	2	2	1	1	2	2	0	0	1	1	0	0	0	0	1.0	2.0
20-May-06	0	0	0	0	A	0	1	1	2	2	1	1	1	3	1	1	1	1	1	1	0	0	0	0	0.8	2.5
21-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	20	52	43	32	29	49	10.0	51.9
22-May-06	7	0	0	23	A	7	4	8	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2.6	23.0
23-May-06	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.3	1.0
24-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.3	0.5
25-May-06	0	0	0	0	A	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
26-May-06	0	8	7	5	A	0	1	0	2	1	1	0	0	0	0	0	1	2	0	0	0	0	0	0	1.3	7.6
27-May-06	0	0	0	0	A	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0.4	1.0
28-May-06	0	0	1	1	A	2	2	1	3	2	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0.8	3.2
29-May-06	0	0	0	0	A	2	2	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.2
30-May-06	0	0	0	0	A	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	0.7
31-May-06	0	0	0	0	A	0	0	0	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	1	0.5	2.7
Hourly Avg	0.7	0.7	0.8	1.4	N	0.8	0.8	1.0	0.8	0.7	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	1.1	2.1	1.8	1.5	1.3	2.1		
Hourly Max	7.2	7.6	6.7	23.0	0.0	7.3	3.7	8.2	2.5	2.5	2.0	2.0	1.5	2.5	3.2	1.5	2.6	3.4	19.6	51.9	43.2	31.8	28.8	49.5		

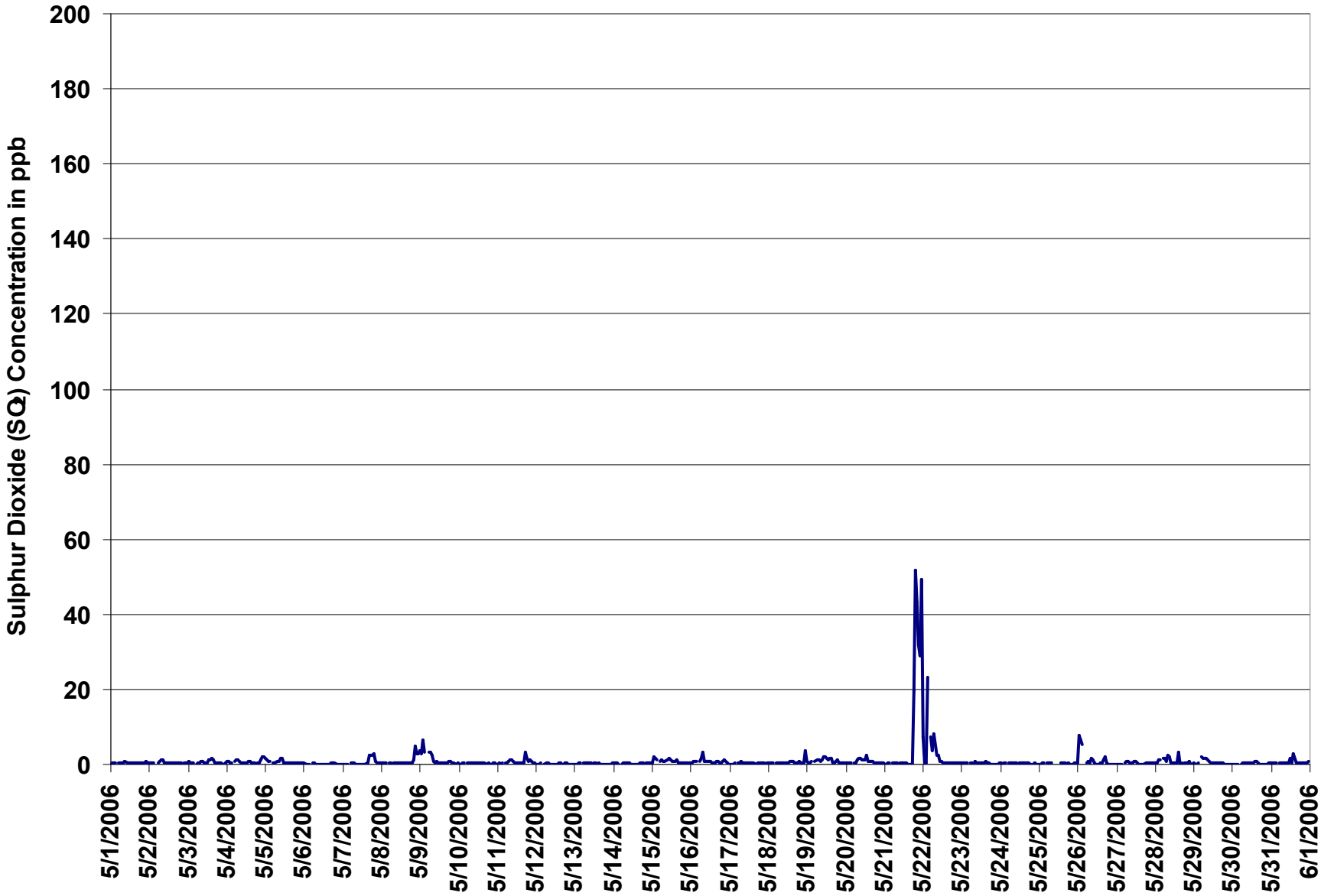
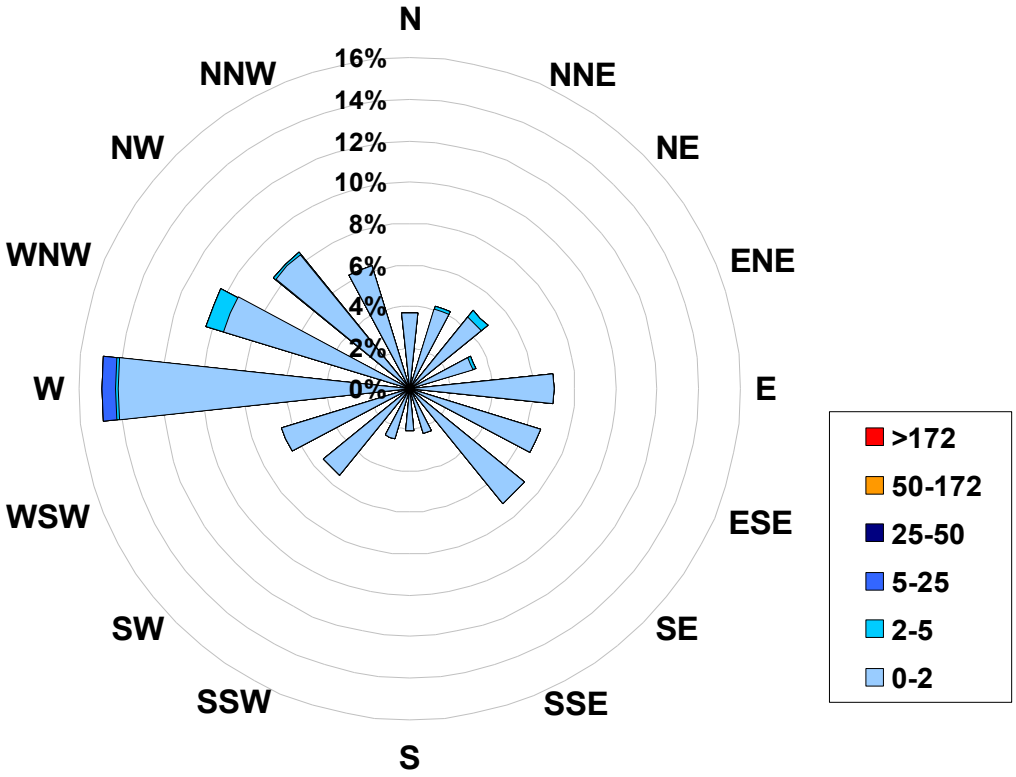


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	690
2	to	5	14
5	to	25	5
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			709

PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

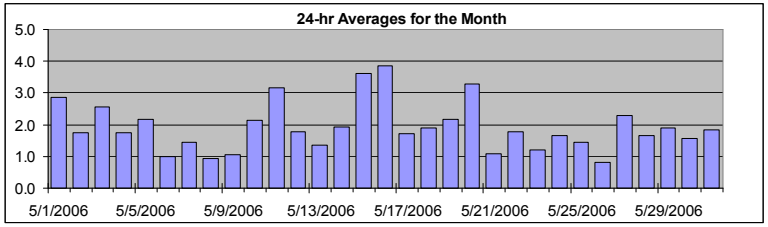
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	17.0	ppb	1-May	5:00 6:00
Maximum 24-hr Average:	3.8	ppb	16-May	



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
	9.4	4.6	2.2	1.4	0.9	0.5	0.2	1.9 ppb	1.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	2	2	4	6	A	17	7	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2.9	17.0
2-May-06	2	2	2	2	A	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	9	1.7	9.3
3-May-06	9	4	7	3	A	6	6	5	3	2	1	1	1	0	1	0	1	0	1	1	1	1	1	1	2.6	9.5
4-May-06	1	1	1	2	A	2	4	4	2	1	1	1	1	1	1	1	1	1	1	2	4	4	3	3	1.7	4.1
5-May-06	2	2	3	4	A	3	3	2	2	1	1	1	1	1	1	1	1	1	2	2	3	5	8	1	2.2	7.7
6-May-06	1	1	1	1	A	2	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	2	3	1.0	2.7
7-May-06	2	2	3	4	A	5	5	2	1	1	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1.4	5.1
8-May-06	1	0	1	1	A	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	1	0.9	1.8
9-May-06	1	1	1	1	A	2	2	2	1	1	1	0	0	0	0	0	0	0	1	1	2	2	2	2	1.0	2.3
10-May-06	2	2	2	3	A	4	4	4	5	3	2	1	2	1	1	1	1	1	1	1	1	4	2	2	2.1	4.6
11-May-06	2	2	3	5	A	16	13	8	2	2	1	1	1	1	1	1	1	1	1	1	1	3	2	2	3.2	16.0
12-May-06	2	2	4	3	A	4	3	2	1	2	2	1	1	1	1	1	1	1	1	1	2	2	1	2	1.8	4.4
13-May-06	2	2	2	2	A	3	3	1	1	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3	1.4	3.1
14-May-06	2	1	2	2	A	3	3	3	3	2	1	1	1	1	1	1	1	1	1	2	3	4	3	2	1.9	3.9
15-May-06	3	3	4	5	A	5	15	11	7	4	1	2	2	2	1	1	2	2	2	2	2	2	2	2	3.6	15.5
16-May-06	2	2	3	2	A	6	11	11	5	4	4	4	3	2	2	2	2	2	3	5	4	5	3	2	3.8	11.3
17-May-06	2	2	3	2	A	2	5	3	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1.7	4.5
18-May-06	2	2	2	2	A	2	8	3	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	1.9	7.8
19-May-06	2	3	3	2	A	1	2	2	3	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2.2	2.9
20-May-06	2	2	2	2	A	2	2	3	3	3	3	4	3	4	4	4	3	3	4	4	4	5	6	4	3.3	6.3
21-May-06	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	2	3	1	1.1	2.5
22-May-06	2	2	2	2	A	2	4	5	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1.8	4.8
23-May-06	2	1	1	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1.2	2.0
24-May-06	1	1	1	1	A	3	2	2	1	1	C	C	C	C	A	3	4	2	1	1	1	1	2	1	1.7	3.5
25-May-06	1	2	2	2	A	3	3	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.4	3.2
26-May-06	2	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	3	2	1	0.8	2.6
27-May-06	2	2	4	5	A	8	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	2.3	8.3
28-May-06	2	2	1	2	A	3	4	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	1	1	1.7	3.5
29-May-06	2	3	3	2	A	3	3	2	3	2	2	1	1	1	1	1	1	1	1	1	1	2	2	3	1.9	3.4
30-May-06	2	2	3	3	A	4	2	2	2	1	1	1	1	1	1	0	0	1	0	1	3	3	2	1	1.6	3.6
31-May-06	2	2	1	2	A	3	3	2	2	1	1	0	2	1	4	1	1	1	1	2	3	1	2	4	1.8	4.2
Hourly Avg	2.0	1.9	2.4	2.5	N	3.9	4.3	3.2	2.2	1.6	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.5	2.0	2.2	2.2	2.2		
Hourly Max	9.5	4.4	7.0	6.2	0.0	17.0	15.5	11.1	7.3	4.1	4.0	3.9	3.2	4.2	4.2	3.6	3.5	3.4	4.0	4.6	4.5	4.7	7.7	9.3		

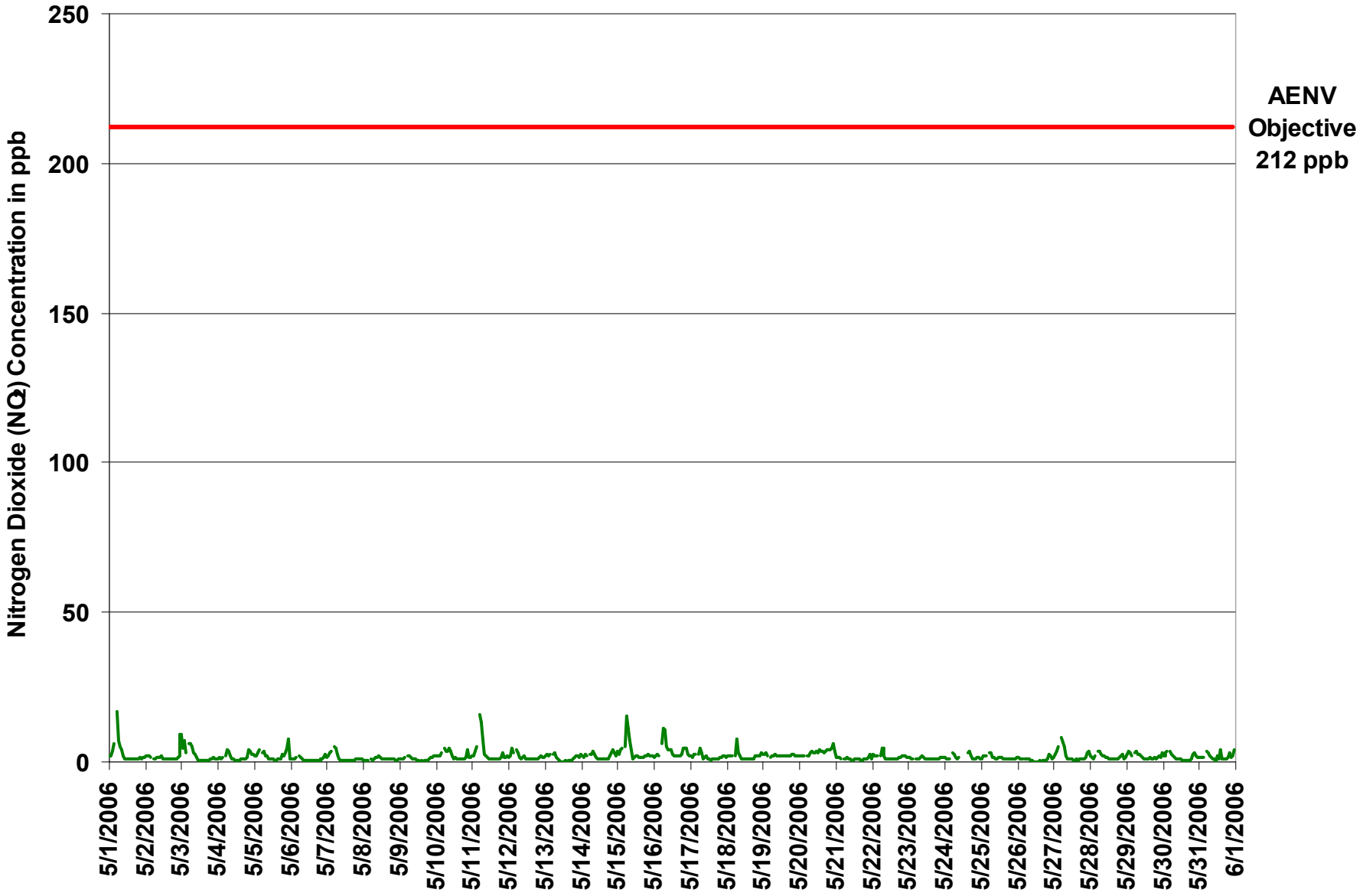


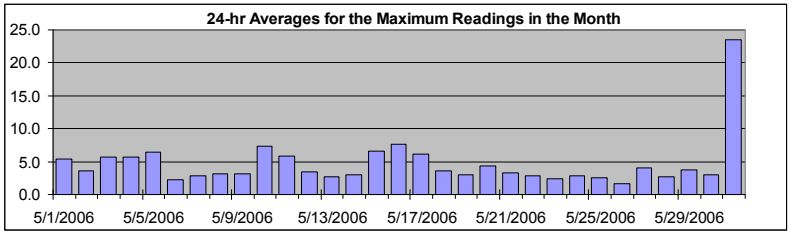
Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	236.6	ppb	31-May	14:00 15:00
Maximum 24-hr Value:	23.5	ppb	31-May	

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
	33.3	10.9	4.0	2.9	1.9	1.0	0.9	4.7 ppb	2.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	3	4	5	13	A	33	10	8	8	5	2	1	2	5	2	2	2	2	3	2	3	3	3	4	5.4	33.3
2-May-06	3	3	3	4	A	3	3	3	4	3	3	3	2	2	2	2	1	1	2	2	2	4	3	28	3.6	27.7
3-May-06	35	9	14	11	A	7	10	8	4	3	2	1	1	1	1	1	1	2	2	6	2	3	3	3	5.7	35.4
4-May-06	3	2	1	3	A	3	6	8	3	2	1	2	2	2	2	37	2	14	2	12	10	6	4	4	5.7	37.3
5-May-06	3	3	4	5	A	4	7	4	27	2	2	2	24	5	1	2	2	2	16	3	5	8	15	2	6.4	26.7
6-May-06	2	3	1	4	A	3	3	2	2	2	1	1	1	1	1	1	2	1	1	1	3	5	6	7	2.3	6.9
7-May-06	3	5	4	6	A	13	7	4	2	1	1	1	1	1	1	1	1	1	2	2	3	2	1	2	2.8	12.9
8-May-06	1	1	1	1	A	2	2	2	21	11	4	3	2	2	2	2	2	2	2	2	2	3	1	2	3.1	20.5
9-May-06	2	1	2	3	A	3	3	3	8	2	6	10	1	1	2	1	1	2	2	3	4	4	5	4	3.1	10.1
10-May-06	3	3	3	4	A	7	7	6	6	4	4	1	81	2	1	1	2	2	2	2	3	13	6	5	7.3	80.8
11-May-06	3	7	6	8	A	29	20	11	6	3	2	2	1	2	1	2	2	2	3	7	10	3	2	4	5.9	29.0
12-May-06	3	3	7	5	A	8	6	3	2	4	4	3	3	3	2	3	2	2	2	2	6	5	2	3	3.5	7.9
13-May-06	3	4	4	3	A	4	5	4	2	1	1	1	1	1	1	1	1	2	2	5	4	4	4	4	2.7	5.0
14-May-06	5	6	3	3	A	4	4	5	4	2	1	1	1	1	1	1	1	2	4	3	5	5	5	4	3.0	5.9
15-May-06	7	5	7	11	A	19	25	22	13	6	3	2	2	3	3	2	2	2	3	4	4	4	3	3	6.6	25.2
16-May-06	2	6	4	4	A	24	26	25	6	5	5	5	3	3	3	3	3	3	6	10	12	10	5	3	7.7	26.3
17-May-06	4	3	5	6	A	4	8	8	3	3	61	2	6	1	2	2	2	2	2	4	4	4	4	2	6.2	60.8
18-May-06	5	3	3	2	A	3	13	6	6	3	2	1	2	8	3	3	2	2	2	3	3	3	3	4	3.6	12.9
19-May-06	4	4	3	3	A	2	3	3	3	3	3	2	2	6	2	3	3	2	2	3	4	4	3	3	3.0	6.1
20-May-06	2	3	2	2	A	2	3	4	4	5	5	4	4	6	5	5	4	4	5	6	5	7	8	6	4.3	8.0
21-May-06	3	2	3	1	A	2	2	2	2	1	1	1	2	1	2	2	1	1	3	2	2	3	33	3	3.3	33.0
22-May-06	3	3	4	4	A	3	7	8	6	1	1	1	1	1	1	2	2	2	2	2	3	2	3	2	2.8	8.0
23-May-06	3	2	2	2	A	1	2	2	8	4	3	1	2	2	2	2	2	2	2	1	1	2	3	3	2.3	8.0
24-May-06	2	1	2	2	A	5	5	2	2	2	C	C	C	C	A	4	8	3	2	2	1	3	3	2	2.8	8.0
25-May-06	1	3	3	3	A	4	6	4	3	2	2	3	3	5	6	1	1	1	1	1	1	3	2	2	2.6	6.5
26-May-06	2	1	1	2	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	7	5	2	1.6	6.9
27-May-06	2	5	9	8	A	11	15	9	4	2	1	1	1	1	1	1	1	1	2	2	2	5	5	6	4.1	14.5
28-May-06	2	3	2	3	A	5	5	4	2	2	2	2	2	1	1	2	1	1	2	3	4	9	1	3	2.7	9.4
29-May-06	6	5	5	3	A	3	6	5	5	5	3	3	2	2	2	4	2	3	5	2	3	4	3	4	3.7	5.9
30-May-06	3	5	4	6	A	5	4	3	3	2	1	2	4	2	2	1	1	2	1	2	5	6	3	5	3.1	5.9
31-May-06	3	3	2	2	A	9	5	4	3	3	38	1	182	25	237	1	1	1	1	3	6	3	4	7	23.5	236.6
Hourly Avg	4.0	3.5	3.8	4.4	N	7.3	7.4	5.9	5.5	3.0	5.4	2.1	11.4	3.2	9.7	3.1	1.9	2.2	2.8	3.3	3.9	4.7	4.8	4.3		
Hourly Max	35.4	9.3	13.6	13.3	0.0	33.3	26.3	25.3	26.7	10.6	60.8	10.1	182.2	24.8	236.6	37.3	8.0	14.0	16.4	12.4	11.7	12.9	33.0	27.7		

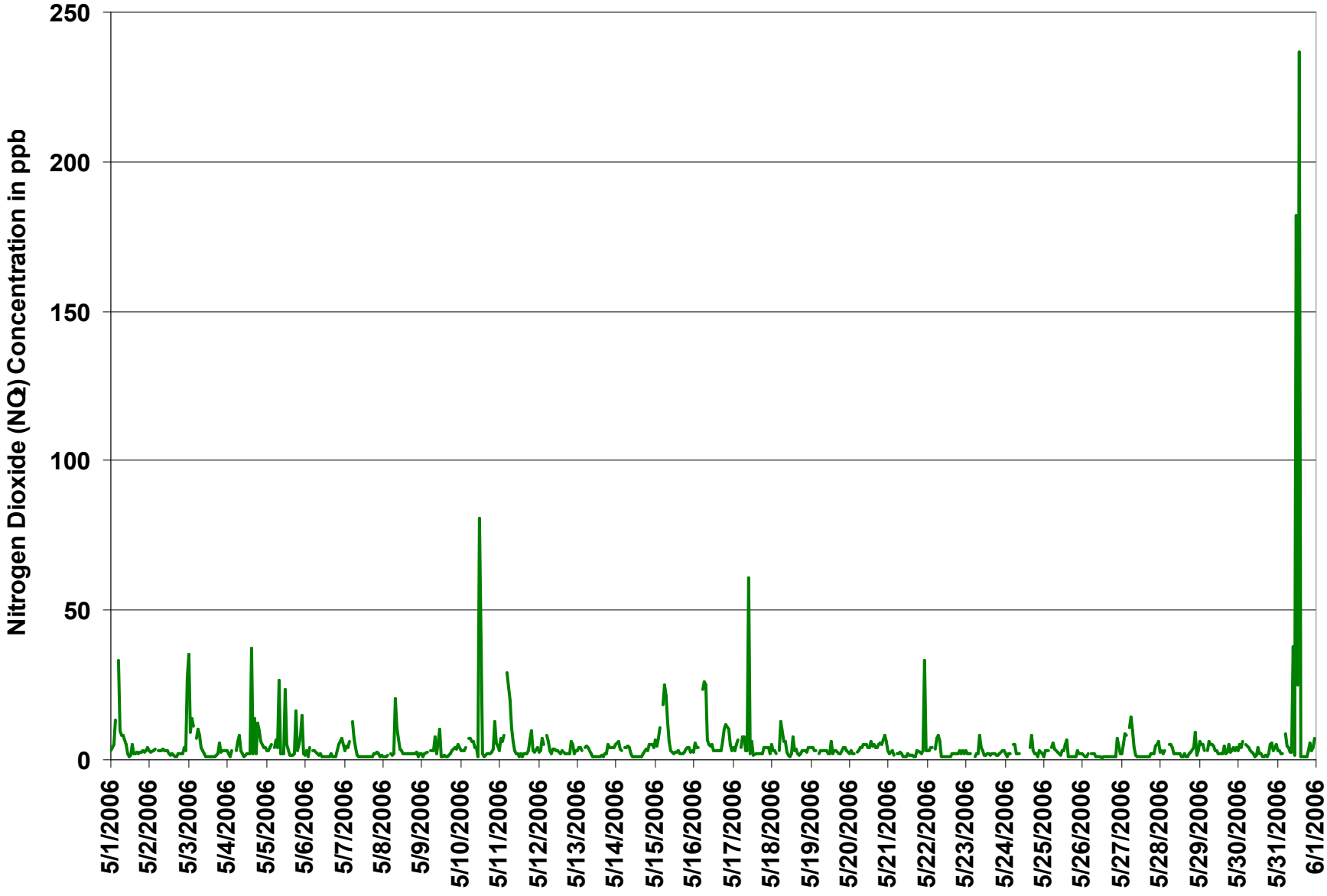
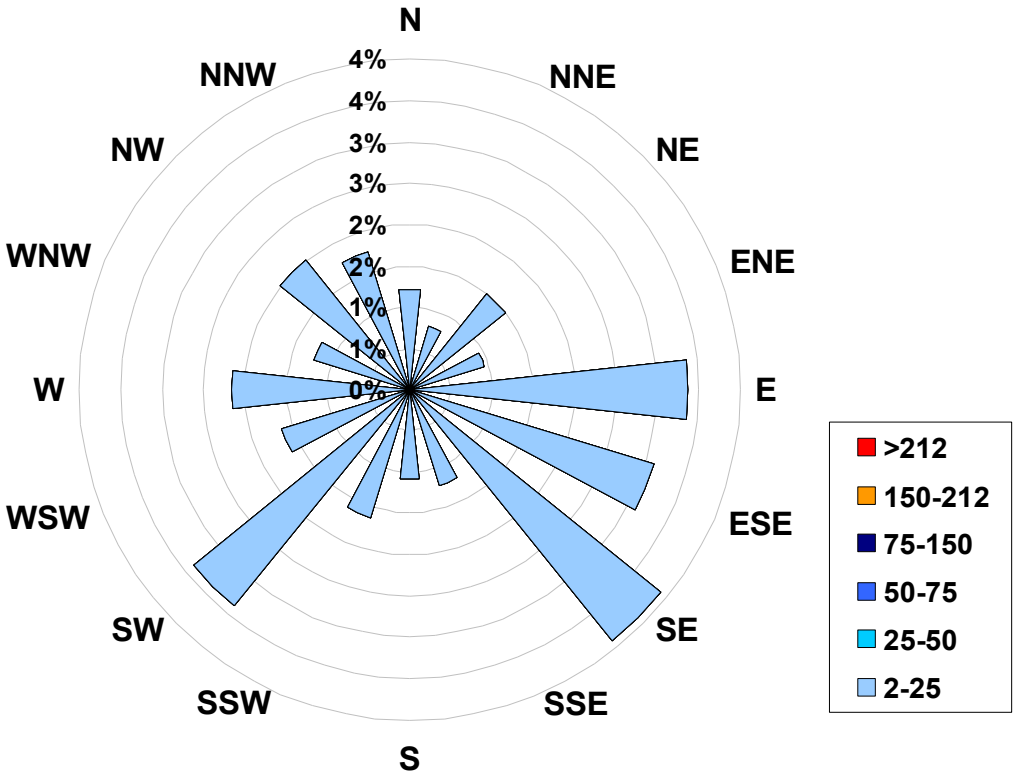


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	708
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			708

PASZA - Beaverlodge - Nitric Oxide Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

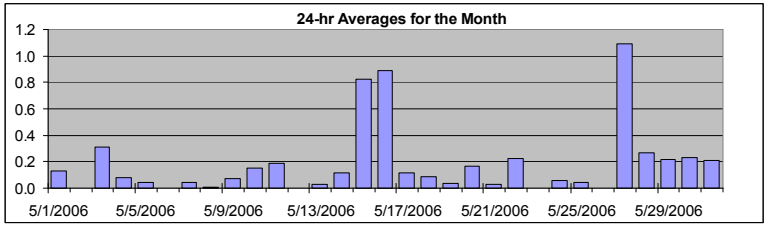
Nitric Oxide (NO)

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Maximum 1-hr Average:	9.7	ppb	27-May	6:00 7:00
Maximum 24-hr Average:	1.1	ppb	27-May	



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
	3.3	0.9	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

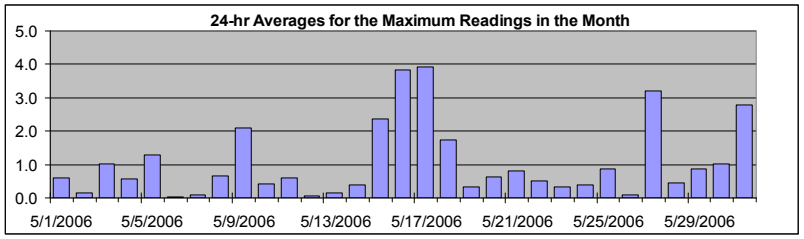
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	A	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
2-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
3-May-06	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.5
4-May-06	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
5-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.0	0.9
6-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
7-May-06	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6
8-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
9-May-06	0	0	0	0	A	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
10-May-06	0	0	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
11-May-06	0	0	0	0	A	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
12-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
13-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5
14-May-06	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
15-May-06	0	0	0	0	A	0	8	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	8.5
16-May-06	0	0	0	0	A	1	8	7	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.9	7.7
17-May-06	0	0	0	0	A	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.9
18-May-06	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
19-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
20-May-06	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
21-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.0	0.5
22-May-06	0	0	0	0	A	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.2
23-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
24-May-06	0	0	0	0	A	0	0	0	0	0	C	C	C	C	A	0	1	0	0	0	0	0	0	0	0.1	0.5
25-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
26-May-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
27-May-06	0	0	0	0	A	3	10	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	9.7
28-May-06	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.5
29-May-06	0	0	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
30-May-06	0	0	0	0	A	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
31-May-06	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
Hourly Avg	0.0	0.0	0.0	0.0	N	0.3	1.3	1.2	0.6	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.4	0.0	0.0	0.0	0.0	3.4	9.7	9.5	3.5	1.2	1.0	0.9	0.5	0.9	0.4	0.5	0.5	0.1	0.9	0.2	0.1	0.1	0.5	0.0		

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	83.3	ppb	17-May	13:00 14:00
Maximum 24-hr Value:	3.9	ppb	17-May	

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
	24.3	3.8	0.7	0.0	0.0	0.0	0.0	1.0 ppb	0.0 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	0	0	0	0	A	6	1	1	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.6	6.0
2-May-06	0	0	0	0	A	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0.2	0.9
3-May-06	8	0	0	0	A	1	4	5	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	8.5
4-May-06	0	0	0	0	A	0	2	2	1	0	0	0	1	0	6	0	0	0	0	1	0	0	0	0	0.6	5.6
5-May-06	0	0	0	0	A	0	1	1	4	1	0	0	2	0	0	0	1	0	12	8	0	0	0	0	1.3	11.7
6-May-06	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7
7-May-06	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
8-May-06	0	0	0	0	A	0	0	0	5	8	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.7	7.6
9-May-06	0	0	0	0	A	0	1	1	13	1	31	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	30.7
10-May-06	0	0	0	0	A	0	1	2	2	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	2.0
11-May-06	0	0	0	0	A	3	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.0
12-May-06	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.1	0.9
13-May-06	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
14-May-06	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0.4	2.0
15-May-06	0	0	0	0	A	8	24	11	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	24.5
16-May-06	0	0	0	0	A	9	39	29	2	2	1	1	1	0	0	0	0	0	1	1	1	1	0	0	3.8	39.0
17-May-06	0	0	0	0	A	0	2	2	1	1	1	0	0	83	0	0	0	0	0	0	0	0	0	0	3.9	83.3
18-May-06	0	0	0	0	A	0	2	1	2	2	8	0	1	23	0	1	0	0	0	0	0	0	0	0	1.7	22.9
19-May-06	0	0	0	0	A	0	0	1	1	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0.3	3.3
20-May-06	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	1.0
21-May-06	0	0	0	0	A	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	14	0	0.8	14.3
22-May-06	0	0	0	0	A	0	4	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.9
23-May-06	0	0	0	0	A	0	0	0	4	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.3	3.7
24-May-06	0	0	0	0	A	1	1	1	1	1	C	C	C	C	A	0	2	0	0	0	0	0	0	0	0.4	2.0
25-May-06	0	0	0	0	A	0	1	1	0	0	0	1	1	2	14	0	0	0	0	0	0	0	0	0	0.9	13.6
26-May-06	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.1	0.7
27-May-06	0	1	1	0	A	8	29	27	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2	28.7
28-May-06	0	0	0	0	A	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.0
29-May-06	0	0	0	0	A	0	3	3	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.9	3.0
30-May-06	0	0	0	1	A	3	4	2	2	1	1	1	8	1	0	0	0	0	0	0	0	0	0	0	1.0	8.3
31-May-06	0	0	0	0	A	3	2	1	1	1	10	1	31	1	12	0	0	0	0	0	0	0	0	0	2.8	31.2
Hourly Avg	0.3	0.0	0.0	0.0	N	1.4	4.2	3.4	2.2	1.1	2.1	0.3	1.6	4.0	1.2	0.2	0.2	0.1	0.5	0.4	0.1	0.1	0.5	0.0		
Hourly Max	8.5	1.0	0.9	0.6	0.0	8.8	39.0	28.6	12.9	7.6	30.7	1.3	31.2	83.3	13.6	1.0	2.0	1.0	11.7	7.6	1.8	1.0	14.3	0.7		

PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

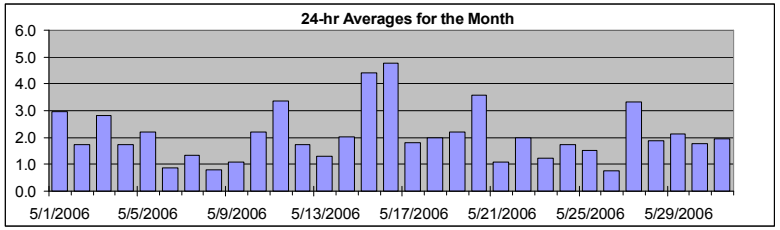
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Maximum 1-hr Average:	24.1	ppb	15-May	6:00 7:00
Maximum 24-hr Average:	4.8	ppb	16-May	



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
	14.9	5.0	2.3	1.4	0.9	0.3	0.1	2.1 ppb	1.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	2	2	4	6	A	18	8	6	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2.9	18.1
2-May-06	2	2	2	2	A	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	9	1.7	9.2
3-May-06	10	4	7	3	A	6	8	8	5	3	2	1	1	0	0	0	0	0	0	1	1	1	1	1	2.8	9.8
4-May-06	1	1	1	1	A	2	4	5	2	1	1	1	0	1	1	1	1	1	2	4	4	3	3	1.7	4.6	
5-May-06	2	2	3	4	A	3	4	2	2	1	1	1	1	1	0	1	1	1	3	2	3	4	8	1	2.2	7.6
6-May-06	1	1	1	1	A	2	1	1	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	3	0.9	2.6
7-May-06	1	2	3	4	A	5	5	3	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1.3	5.5
8-May-06	0	0	0	0	A	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	1	0.8	1.9
9-May-06	1	1	1	1	A	2	3	2	2	1	2	0	0	0	0	0	0	0	0	1	2	1	2	2	1.1	2.6
10-May-06	2	2	2	3	A	4	4	4	6	5	2	1	1	1	1	1	1	1	1	1	1	4	2	1	2.2	5.8
11-May-06	2	2	3	5	A	17	15	9	3	3	1	1	1	1	1	1	1	1	1	1	3	2	2	2	3.3	16.7
12-May-06	1	2	4	3	A	4	3	2	1	2	2	1	1	1	1	1	1	1	1	1	2	2	1	2	1.7	4.3
13-May-06	2	2	2	2	A	3	4	2	1	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	1.3	3.8
14-May-06	2	1	2	2	A	3	3	5	4	2	1	1	1	1	1	1	1	1	1	2	3	4	3	2	2.0	4.7
15-May-06	3	3	4	5	A	5	24	16	11	5	1	2	2	2	1	1	2	1	2	2	2	2	2	2	4.4	24.1
16-May-06	1	2	3	2	A	7	19	17	7	6	5	5	3	3	2	2	2	2	3	5	5	5	3	2	4.8	19.2
17-May-06	2	2	3	2	A	3	5	4	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1.8	5.5
18-May-06	2	2	2	2	A	2	9	3	2	1	1	1	1	2	1	1	1	1	1	2	2	2	2	3	2.0	8.7
19-May-06	2	2	3	2	A	1	2	3	3	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2.2	3.0
20-May-06	2	2	2	2	A	2	2	3	3	3	4	5	4	5	4	4	4	4	4	5	4	5	7	4	3.6	6.5
21-May-06	2	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	3	1	1.1	3.0
22-May-06	2	2	2	2	A	2	7	7	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2.0	7.1
23-May-06	1	1	1	1	A	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	2	2	1.2	2.2
24-May-06	1	1	1	1	A	3	3	2	1	2	C	C	C	C	A	3	4	2	1	1	1	1	2	1	1.7	4.0
25-May-06	1	2	2	2	A	3	4	2	2	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1.5	3.5
26-May-06	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	3	2	1	0.8	2.5
27-May-06	1	2	4	5	A	12	16	15	5	1	1	1	1	1	0	1	0	1	1	1	1	1	3	3	3.3	16.3
28-May-06	2	1	1	2	A	4	5	4	3	3	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1.9	5.0
29-May-06	2	3	3	2	A	3	5	3	3	3	2	2	1	1	1	2	1	1	1	1	1	2	2	3	2.1	4.6
30-May-06	2	2	3	4	A	4	4	3	3	1	1	1	1	1	1	0	0	0	0	1	3	3	2	1	1.8	4.5
31-May-06	1	1	1	1	A	4	4	3	3	1	1	0	3	1	4	1	1	1	1	1	3	1	2	4	2.0	4.3
Hourly Avg	1.9	1.8	2.3	2.4	N	4.2	5.7	4.5	2.9	1.9	1.5	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.2	1.4	1.9	2.1	2.1	2.1		
Hourly Max	9.8	4.3	7.0	6.0	0.0	18.1	24.1	17.5	10.7	5.6	4.8	4.7	3.7	4.7	4.3	3.9	4.0	3.7	4.4	5.0	4.6	5.0	7.6	9.2		

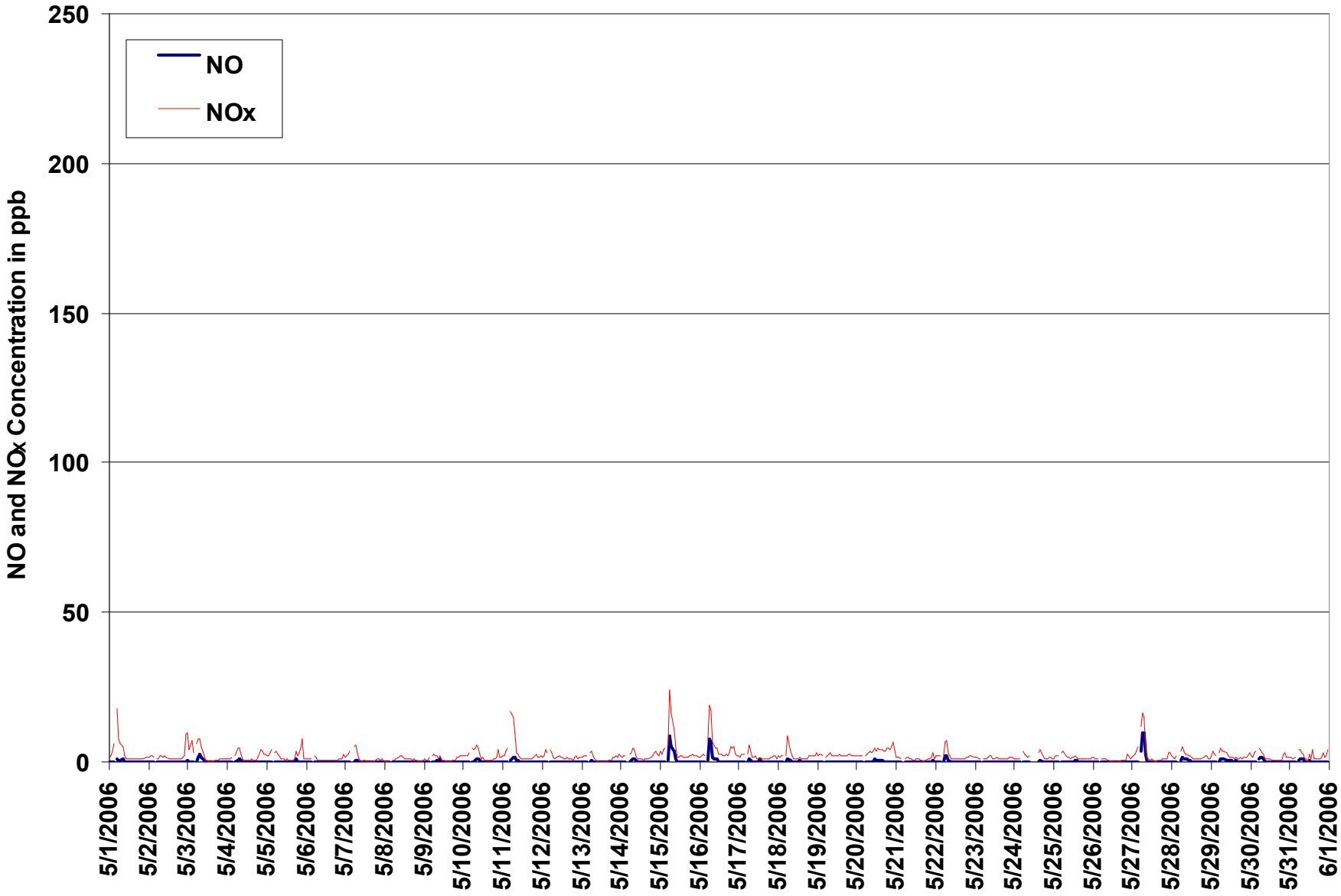


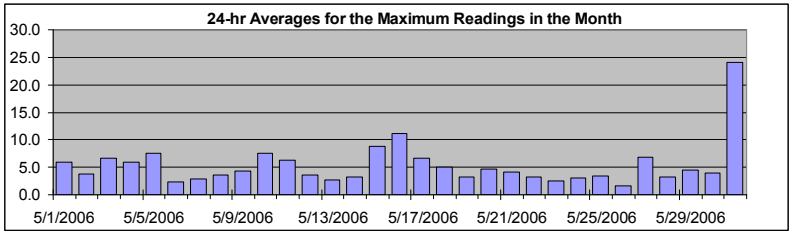
Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	238.7	ppb	31-May	14:00 15:00
Maximum 24-hr Value:	24.1	ppb	31-May	

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
	46.4	13.9	4.9	2.9	1.9	0.9	0.9	5.4 ppb	2.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	3	4	5	13	A	38	10	9	10	6	2	2	2	7	2	2	3	2	3	2	3	3	3	4	5.9	38.0
2-May-06	3	2	3	3	A	3	3	4	4	3	3	3	2	2	3	2	1	1	2	2	2	4	3	29	3.7	28.5
3-May-06	44	9	14	11	A	8	14	13	7	4	3	1	1	1	1	1	1	2	2	6	2	3	3	3	6.6	43.7
4-May-06	3	2	1	3	A	3	8	10	4	2	1	2	3	2	2	38	2	14	2	12	10	6	4	4	5.9	37.8
5-May-06	3	3	4	5	A	4	8	5	28	3	2	2	24	5	2	2	2	2	28	11	5	8	15	2	7.5	28.3
6-May-06	1	3	1	4	A	3	3	3	2	2	1	1	1	1	1	2	2	1	1	1	3	5	6	7	2.3	6.9
7-May-06	3	5	4	6	A	13	9	6	2	1	1	1	1	1	1	1	1	1	2	2	3	1	1	2	2.8	12.9
8-May-06	1	1	1	2	A	2	2	2	25	15	4	3	2	3	3	3	2	2	2	2	2	3	1	2	3.6	24.9
9-May-06	2	1	2	2	A	3	4	4	20	2	20	10	2	1	2	1	1	2	2	4	4	4	5	3	4.4	20.0
10-May-06	3	3	3	4	A	7	8	7	7	6	5	2	82	2	1	2	2	2	2	2	3	13	6	4	7.6	81.9
11-May-06	3	7	6	8	A	31	21	14	8	4	3	2	1	2	1	2	2	2	3	7	10	2	2	4	6.2	31.0
12-May-06	3	3	7	5	A	8	6	3	2	4	4	3	3	3	2	3	2	2	2	3	6	5	2	3	3.6	7.9
13-May-06	3	3	4	3	A	4	5	5	3	1	1	1	1	1	1	1	1	2	2	5	4	4	4	4	2.8	5.3
14-May-06	5	6	3	3	A	4	5	6	5	3	1	1	1	1	1	1	1	2	4	3	5	5	5	4	3.2	5.9
15-May-06	7	4	7	11	A	26	47	33	21	9	3	2	3	3	4	2	2	2	3	4	4	4	2	3	8.9	46.9
16-May-06	2	6	4	3	A	33	63	51	9	6	5	5	4	3	3	3	3	3	7	11	13	10	6	3	11.1	63.0
17-May-06	4	3	5	7	A	4	10	10	4	4	60	2	6	4	2	2	2	3	2	4	4	4	4	2	6.6	60.3
18-May-06	4	3	3	2	A	3	14	7	8	5	2	1	3	31	3	4	2	1	2	3	3	3	3	4	4.9	31.0
19-May-06	4	4	3	3	A	2	3	4	4	3	4	2	2	8	3	3	3	2	2	3	4	4	3	2	3.2	7.8
20-May-06	2	3	2	2	A	2	3	4	4	6	6	6	4	6	5	5	5	5	6	6	5	7	9	6	4.7	8.9
21-May-06	3	2	3	1	A	2	2	3	2	2	1	1	2	2	2	2	1	2	4	3	2	3	47	3	4.1	46.6
22-May-06	3	4	4	4	A	4	11	11	9	2	1	1	1	1	1	2	1	2	2	2	3	2	3	2	3.3	10.9
23-May-06	3	2	2	1	A	1	2	2	11	5	4	2	2	2	2	2	2	2	2	2	1	2	3	3	2.6	11.4
24-May-06	2	1	2	2	A	6	5	3	2	3	C	C	C	C	A	5	9	3	2	2	1	3	3	2	3.0	8.9
25-May-06	1	3	3	3	A	5	6	4	3	2	2	4	3	6	21	1	1	1	1	1	1	3	2	2	3.4	20.5
26-May-06	2	1	1	1	A	2	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	7	4	2	1.7	6.9
27-May-06	2	5	9	8	A	18	38	36	10	2	1	1	1	2	1	1	1	1	2	2	2	5	5	6	6.8	38.0
28-May-06	2	3	2	3	A	7	7	6	3	4	2	3	2	2	1	2	1	2	3	3	4	9	1	3	3.2	9.3
29-May-06	6	5	5	3	A	4	9	7	8	7	4	4	4	3	2	5	3	3	6	3	3	4	3	4	4.5	8.9
30-May-06	3	5	4	6	A	7	8	5	5	3	2	2	12	2	2	2	1	2	2	2	5	5	3	5	4.0	12.4
31-May-06	3	3	2	2	A	11	6	5	4	4	39	1	184	25	239	1	1	1	1	3	6	3	4	7	24.1	238.7
Hourly Avg	4.2	3.4	3.7	4.3	N	8.6	11.0	9.1	7.5	3.9	6.2	2.4	12.0	4.4	10.4	3.3	2.0	2.3	3.4	3.7	4.0	4.6	5.2	4.2		
Hourly Max	43.7	8.9	13.6	13.0	0.0	38.0	63.0	50.7	28.3	14.9	60.3	10.1	183.5	31.0	238.7	37.8	8.9	13.8	28.1	12.1	12.7	12.9	46.6	28.5		

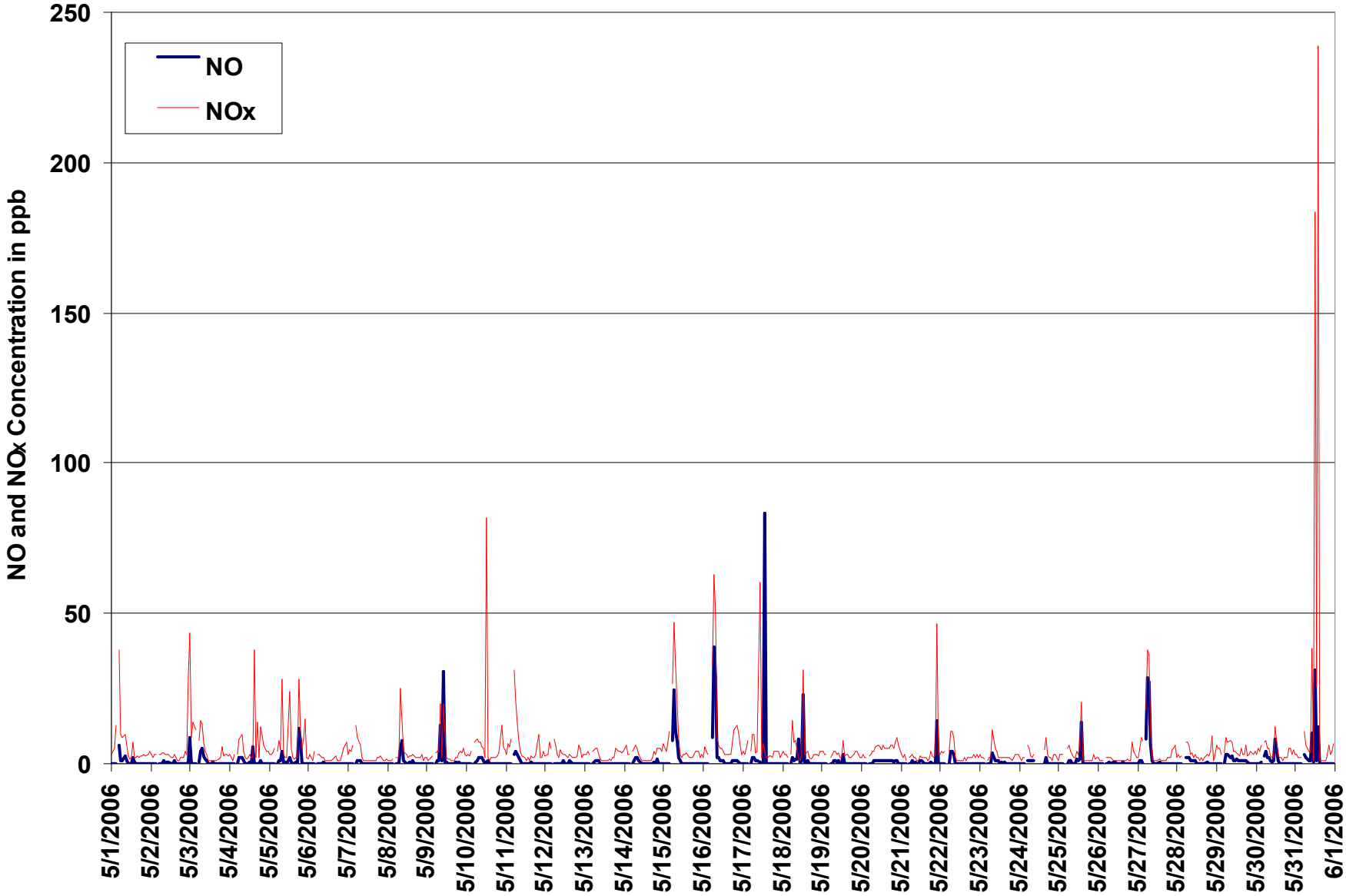


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge - Ozone Monthly Summary

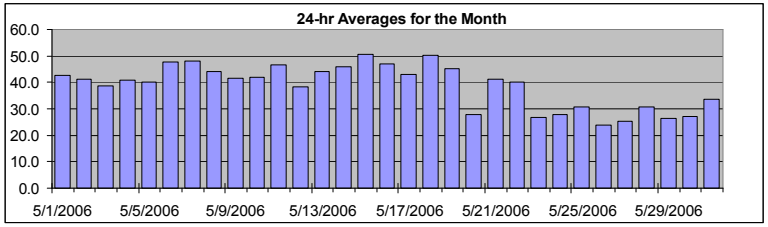
HOURLY AVERAGE TABLE

Ozone (O_3)

Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	66.3	ppb	15-May	16:00 17:00
Maximum 24-hr Average:	50.5	ppb	15-May	

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
	59.7	55.5	47.3	39.9	30.6	19.9	10.3	38.8 ppb	39.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	44	43	40	35	A	17	32	35	38	45	49	51	51	50	50	50	50	49	47	45	43	42	40	37	42.7	51.4
2-May-06	36	36	36	38	A	42	42	41	41	41	39	39	42	43	43	45	46	46	46	45	44	42	43	32	41.2	46.3
3-May-06	27	34	28	25	A	22	21	22	28	35	43	49	49	49	49	49	49	51	49	46	44	41	40	39	38.8	50.8
4-May-06	39	36	39	35	A	36	31	35	40	47	47	46	45	45	46	46	47	47	46	42	36	37	37	36	40.9	47.4
5-May-06	34	32	30	28	A	33	36	38	40	41	42	44	45	42	44	45	44	46	45	44	42	41	37	47	40.1	47.2
6-May-06	48	48	43	41	A	34	42	47	46	49	54	54	52	50	47	47	49	54	53	53	48	48	46	46	47.8	54.1
7-May-06	43	43	44	39	A	34	30	39	46	48	48	51	55	59	57	57	57	56	56	53	49	48	47	49	48.2	58.7
8-May-06	48	45	44	44	A	42	43	42	41	41	41	42	42	43	46	48	47	48	48	46	44	42	41	41	44.0	48.3
9-May-06	40	40	39	38	A	36	36	38	40	42	44	46	47	48	48	50	49	48	43	41	39	36	36	36	41.7	49.6
10-May-06	35	33	34	32	A	28	32	30	30	33	39	47	50	51	51	50	51	50	49	47	48	44	48	48	41.8	50.9
11-May-06	45	43	39	40	A	22	20	30	45	46	49	51	52	54	55	55	56	55	56	54	52	52	49	47	46.4	56.3
12-May-06	46	44	32	32	A	23	29	36	36	36	37	39	41	39	40	37	40	44	45	45	43	37	38	39	38.2	46.1
13-May-06	39	36	37	35	A	32	33	40	42	46	49	51	51	52	52	52	51	51	50	47	46	43	43	35	44.0	52.2
14-May-06	34	41	34	32	A	32	29	32	35	41	46	49	52	54	56	56	57	58	57	54	53	52	49	52	45.9	57.6
15-May-06	51	49	42	35	A	34	18	26	36	44	54	57	59	61	64	66	66	66	64	60	54	55	52	50	50.5	66.3
16-May-06	50	49	49	51	A	32	25	26	37	39	45	51	58	59	60	60	59	56	53	50	50	43	39	37	46.8	59.9
17-May-06	37	38	34	34	A	31	23	32	43	48	48	46	44	46	48	46	45	46	48	51	50	50	50	50	42.9	50.6
18-May-06	48	47	47	47	A	47	36	44	53	55	57	57	56	56	56	55	56	55	54	52	48	45	44	42	50.3	56.9
19-May-06	43	41	39	39	A	42	40	39	40	42	46	51	52	52	56	56	44	43	43	51	50	47	43	44	45.3	56.2
20-May-06	43	40	39	35	A	30	29	27	27	29	28	27	30	27	28	25	27	27	25	23	21	18	14	17	27.7	42.5
21-May-06	28	28	30	42	A	40	35	33	39	42	44	44	46	47	48	49	49	48	48	46	43	39	39	42	41.3	48.9
22-May-06	32	32	32	31	A	30	17	23	35	43	46	47	49	49	49	49	49	48	48	50	50	45	38	35	40.2	49.9
23-May-06	30	26	26	24	A	25	27	26	25	25	26	27	27	27	27	29	28	28	27	28	27	30	25	28	26.9	29.8
24-May-06	24	23	21	20	A	14	18	20	25	28	30	29	31	32	36	34	33	37	35	31	28	34	31	27	27.8	36.7
25-May-06	26	23	23	25	A	21	23	29	32	37	44	C	C	C	C	A	38	37	38	36	32	32	30	26	30.7	44.1
26-May-06	23	26	30	31	A	28	25	23	26	25	22	22	24	24	21	24	25	25	24	23	22	21	20	18	24.0	30.6
27-May-06	18	16	13	11	A	7	6	8	15	26	30	32	32	34	37	39	38	40	40	37	31	28	24	24	25.5	40.3
28-May-06	25	22	23	24	A	14	17	19	22	25	27	28	32	37	39	44	45	43	40	39	37	34	36	34	30.7	45.0
29-May-06	29	23	26	26	A	17	15	18	20	20	21	24	25	28	33	36	38	38	32	33	34	28	25	23	26.5	38.1
30-May-06	20	19	10	9	A	6	7	10	19	25	32	37	37	39	40	42	41	41	37	34	29	28	29	31	27.0	41.6
31-May-06	28	29	29	24	A	19	23	24	25	32	36	36	36	37	39	41	42	43	44	42	33	38	38	34	33.6	43.5
Hourly Avg	35.8	35.0	33.3	32.3	N	28.1	27.1	30.1	34.4	38.0	40.7	42.4	43.8	44.5	45.5	46.0	45.7	45.9	44.9	43.5	41.0	39.4	37.7	37.0		
Hourly Max	51.0	49.1	49.0	50.9	0.0	47.2	43.1	47.4	52.6	55.1	56.6	56.9	58.9	61.4	64.3	65.7	66.3	65.8	64.3	59.6	54.3	55.0	51.6	52.0		

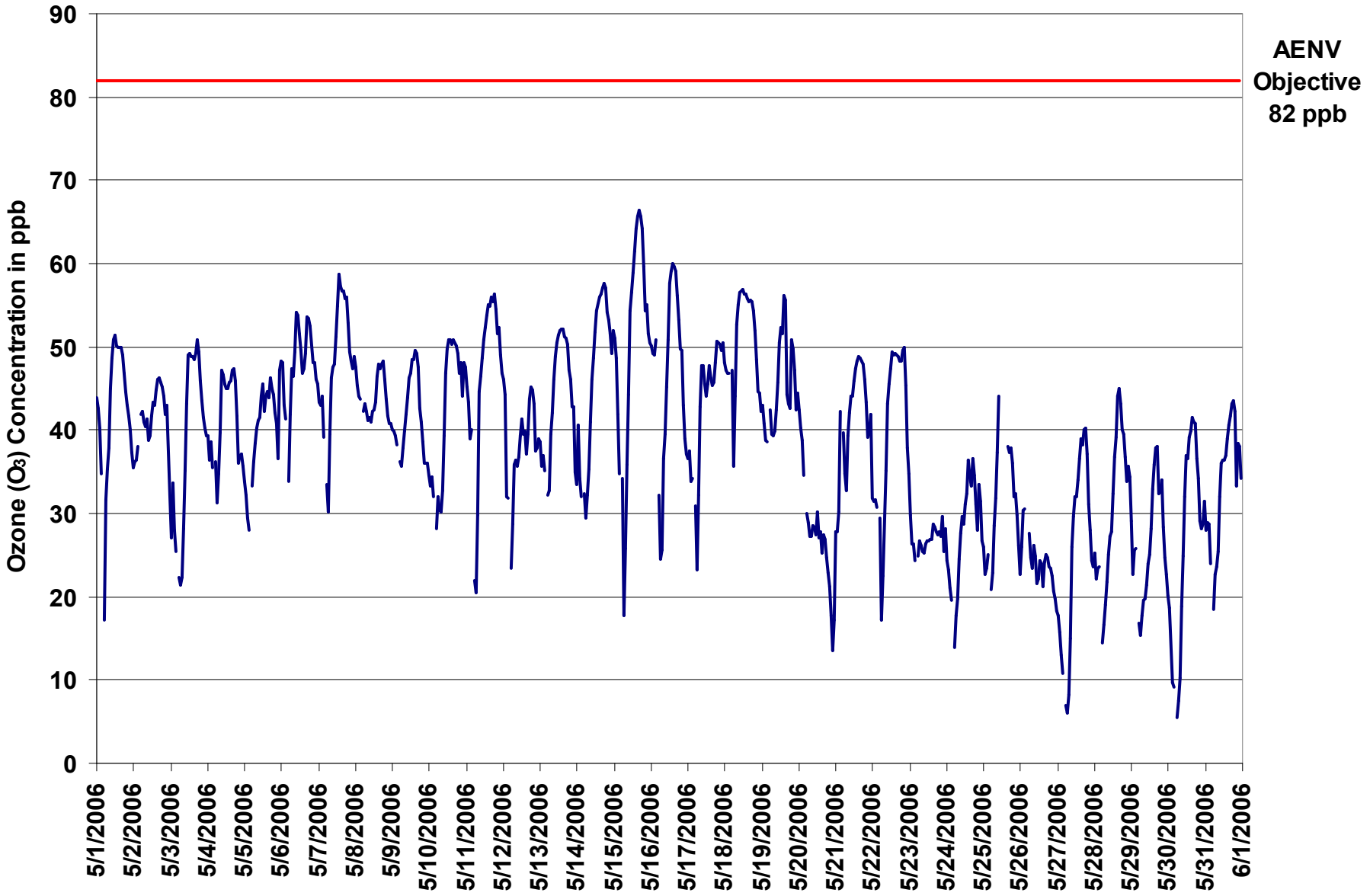


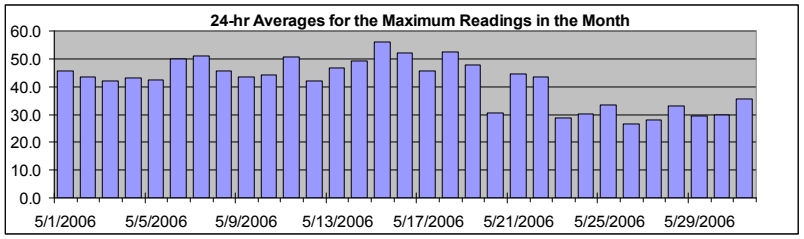
Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Value:	67.6	ppb	15-May	16:00 17:00
Maximum 24-hr Value:	56.1	ppb	15-May	

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
	62.5	57.7	49.5	42.7	34.5	24.0	13.2	41.6 ppb	42.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	45	45	42	40	A	40	35	38	39	49	51	52	53	52	51	51	51	50	48	46	45	43	42	40	45.6	53.0
2-May-06	37	37	38	42	A	43	43	42	42	43	40	41	44	45	45	46	48	48	47	47	45	46	44	45	43.5	48.3
3-May-06	39	36	38	35	A	23	24	26	34	40	50	50	50	50	50	49	51	52	51	49	45	44	42	40	42.2	52.4
4-May-06	40	40	39	39	A	39	37	39	43	49	48	47	47	46	47	47	49	49	48	45	39	40	39	38	43.2	48.9
5-May-06	36	34	33	33	A	38	39	41	42	43	43	46	46	44	45	46	45	48	47	46	45	43	45	48	42.5	48.5
6-May-06	50	50	46	44	A	37	48	48	47	54	55	55	54	51	49	49	51	56	55	54	52	49	49	49	50.0	56.2
7-May-06	47	45	47	45	A	40	35	47	48	48	51	55	59	60	59	58	58	57	57	56	52	52	49	50	51.1	60.0
8-May-06	50	46	45	45	A	44	45	44	43	43	44	44	44	46	49	49	49	49	50	48	45	43	42	42	45.7	50.5
9-May-06	41	41	40	39	A	37	37	39	42	44	46	48	49	51	50	51	50	50	46	43	40	38	38	38	43.4	51.3
10-May-06	36	36	36	34	A	32	34	33	33	36	45	50	51	52	52	52	52	51	51	50	51	48	50	48	44.0	52.1
11-May-06	48	46	45	45	A	36	36	43	48	48	51	53	54	56	57	57	58	58	59	58	55	56	52	50	50.8	59.3
12-May-06	49	48	35	34	A	34	32	39	40	38	40	43	47	42	43	40	43	49	48	48	48	41	42	42	41.9	48.9
13-May-06	40	38	39	40	A	36	37	42	44	48	50	52	53	53	53	54	53	53	53	52	52	48	44	42	46.9	53.8
14-May-06	39	42	40	42	A	35	34	36	40	45	48	51	54	56	57	58	59	59	59	58	56	55	55	56	49.3	59.3
15-May-06	53	55	52	49	A	42	44	34	47	49	58	59	60	64	66	67	68	67	66	64	60	60	53	52	56.1	67.6
16-May-06	51	51	51	53	A	51	45	44	39	43	49	54	60	60	62	62	62	59	57	54	53	51	43	41	51.9	62.5
17-May-06	39	39	36	36	A	34	30	42	44	51	49	48	45	49	50	48	49	47	50	53	53	52	52	52	45.6	52.8
18-May-06	52	49	48	48	A	49	42	50	57	57	58	58	57	58	57	57	57	57	56	55	51	47	46	44	52.6	58.0
19-May-06	44	42	41	41	A	44	41	41	42	44	51	52	55	54	60	59	48	44	49	54	53	50	45	47	47.9	59.7
20-May-06	46	42	42	37	A	31	30	28	28	30	31	30	35	30	31	27	30	30	27	25	24	22	18	27	30.4	45.7
21-May-06	30	30	38	46	A	44	38	39	42	44	46	46	49	51	51	53	53	50	50	48	46	42	43	45	44.5	53.5
22-May-06	37	34	35	35	A	32	30	28	42	45	47	49	51	51	51	50	50	50	50	52	52	48	43	37	43.4	52.2
23-May-06	32	28	28	26	A	27	28	29	27	27	28	28	28	28	28	30	30	29	29	29	31	31	28	32	28.7	32.3
24-May-06	29	25	23	21	A	15	22	23	27	30	31	30	33	34	39	37	37	40	36	34	30	36	36	28	30.4	39.7
25-May-06	28	26	26	30	A	25	26	31	36	41	48	C	C	C	C	A	41	39	40	39	35	34	32	29	33.5	47.6
26-May-06	25	29	33	33	A	31	27	26	28	27	24	24	26	26	23	26	26	27	28	28	25	25	22	20	26.6	33.0
27-May-06	19	19	16	14	A	10	8	12	21	29	32	34	33	36	39	40	40	41	42	40	35	30	26	26	27.9	41.8
28-May-06	26	24	24	25	A	15	19	21	24	27	29	30	36	39	45	46	47	46	42	41	42	37	37	36	32.9	47.2
29-May-06	32	28	28	28	A	19	17	20	21	22	24	25	27	31	35	38	40	40	38	37	42	33	27	26	29.5	41.8
30-May-06	24	24	12	13	A	6	10	13	24	28	37	39	39	41	42	43	43	43	40	36	32	31	30	34	29.8	43.1
31-May-06	30	30	30	29	A	22	25	25	29	35	37	37	38	39	41	43	43	44	45	46	36	40	39	36	35.7	45.8
Hourly Avg	38.5	37.4	36.3	36.1	N	32.7	32.2	34.3	37.5	40.5	43.2	44.4	45.8	46.5	47.6	47.8	47.8	47.9	47.3	46.3	44.2	42.4	40.4	40.0		
Hourly Max	53.1	54.7	51.6	53.1	0.0	51.1	48.4	49.7	56.6	56.8	57.8	59.3	60.3	64.0	65.8	67.2	67.6	67.2	66.4	63.9	60.3	60.3	55.3	55.5		

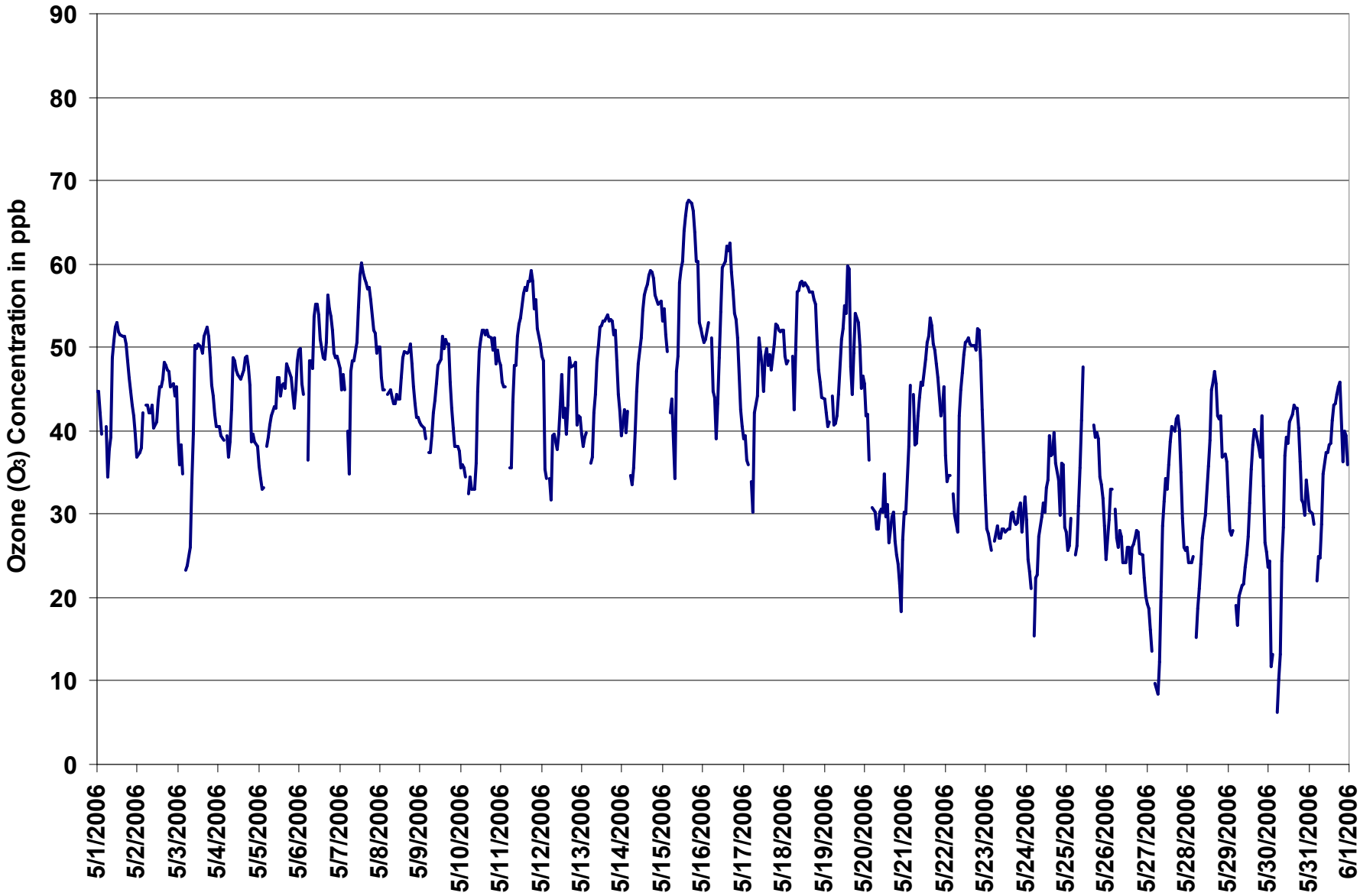
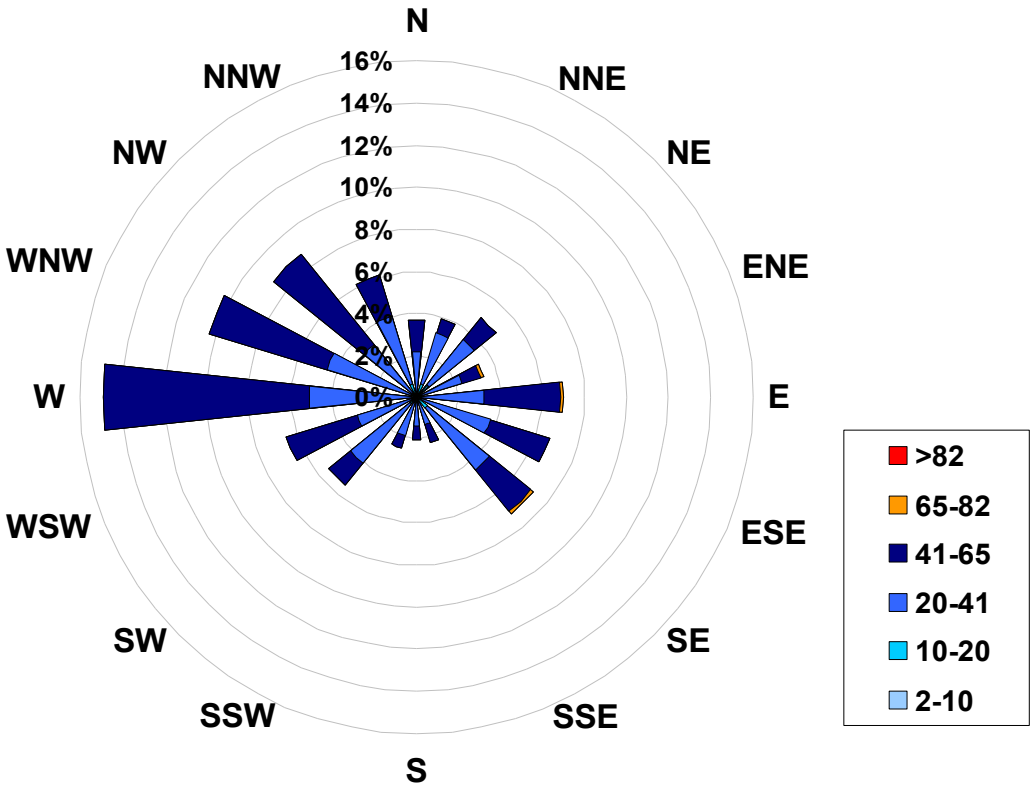


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	7
10	to	20	29
20	to	41	342
41	to	65	327
65	to	82	3
	>	82	0
Total Non-Zero Values			708

PASZA - Beaverlodge - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

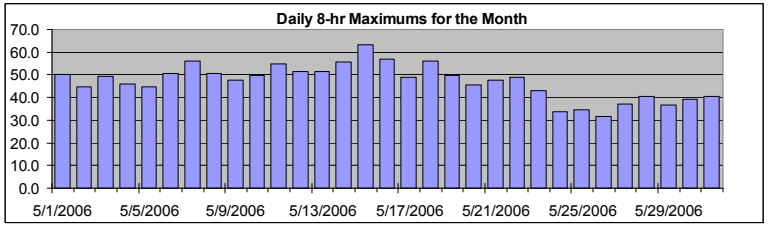
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	63.3	ppb	15-May	19:00 20:00



Percentile	99	95	75	50	25	5	1
	57.9	53.9	46.0	39.7	31.9	21.4	13.7

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	50	48	47	45	44	39	37	35	34	35	36	38	40	44	46	48	49	50	50	49	48	47	46	44	50.0
2-May-06	42	41	39	39	38	38	38	39	39	40	41	41	41	41	41	42	42	43	44	45	45	45	45	43	44.8
3-May-06	41	39	37	34	33	30	27	26	26	26	28	32	34	37	41	44	47	48	49	49	48	47	46	45	49.3
4-May-06	44	42	41	39	39	38	37	36	36	38	39	40	41	42	44	45	46	46	46	45	44	43	42	41	46.1
5-May-06	39	37	35	34	33	33	33	33	34	35	37	39	40	41	42	43	43	44	44	44	44	44	43	43	44.5
6-May-06	44	44	44	43	44	43	43	43	43	43	45	47	47	49	50	50	50	51	51	51	50	50	50	50	50.8
7-May-06	49	47	46	45	44	42	40	39	39	40	41	42	44	47	50	53	54	55	56	56	55	54	53	52	56.1
8-May-06	51	49	48	47	46	46	45	44	43	43	42	42	42	42	43	43	44	45	46	46	46	46	45	45	50.8
9-May-06	44	43	42	41	40	39	39	38	38	38	39	40	41	43	44	46	47	48	47	47	46	44	43	41	47.5
10-May-06	39	37	36	35	35	33	33	32	31	31	32	34	36	39	41	44	46	49	50	50	50	49	48	48	49.9
11-May-06	47	47	45	44	44	41	37	34	34	35	36	38	39	43	48	51	52	53	54	55	55	54	54	53	54.8
12-May-06	51	50	47	44	43	39	36	35	33	32	33	34	35	37	38	38	39	40	41	41	42	41	41	41	51.5
13-May-06	41	40	39	38	37	36	36	36	36	38	40	42	43	45	48	49	51	51	51	51	50	49	48	46	51.4
14-May-06	44	42	40	38	37	36	34	33	34	34	35	38	40	42	46	49	51	53	55	56	56	55	55	54	55.7
15-May-06	53	52	50	48	47	45	40	36	34	33	35	38	41	44	50	55	59	62	63	63	63	62	60	58	63.3
16-May-06	56	54	52	51	51	48	44	40	38	37	36	36	39	42	47	51	54	56	57	57	56	54	51	48	57.0
17-May-06	46	43	41	39	37	36	33	33	34	35	37	39	39	41	44	46	46	46	46	47	48	48	48	49	48.8
18-May-06	49	49	49	49	48	48	46	45	46	47	48	50	51	52	54	56	56	56	56	55	54	53	51	50	56.0
19-May-06	48	46	44	43	42	41	41	40	40	40	41	43	44	45	47	49	50	50	50	50	49	49	47	46	49.9
20-May-06	45	45	45	43	41	39	37	35	32	31	29	28	29	28	28	28	28	28	27	27	25	24	22	21	45.4
21-May-06	22	22	22	25	25	28	31	34	35	37	39	40	40	41	43	45	46	47	47	48	47	46	45	44	47.7
22-May-06	42	40	38	36	35	34	31	28	28	30	32	34	36	39	43	46	48	48	49	49	49	49	47	45	49.0
23-May-06	43	40	37	34	32	29	28	26	26	26	26	26	26	26	26	27	27	27	27	28	28	28	28	28	43.0
24-May-06	27	27	26	25	24	22	21	20	20	21	22	23	24	26	29	31	32	33	33	34	33	34	33	32	33.8
25-May-06	31	29	28	27	27	25	24	24	25	27	30	N	N	N	N	N	N	N	N	N	N	N	35	34	34.8
26-May-06	32	30	29	29	28	28	27	26	27	27	26	24	24	24	23	24	23	23	24	24	24	23	23	22	31.8
27-May-06	21	20	19	17	17	15	13	11	11	12	15	18	20	23	27	31	33	35	37	37	37	36	35	33	37.1
28-May-06	31	29	27	25	24	22	21	21	20	21	21	22	23	26	29	32	35	37	39	40	41	40	40	39	40.6
29-May-06	37	34	32	30	30	27	24	22	21	20	20	19	20	21	24	26	28	30	32	33	34	34	33	31	36.6
30-May-06	29	27	24	21	19	16	13	12	11	12	15	19	22	26	30	34	37	39	39	39	38	36	35	34	39.1
31-May-06	32	31	30	28	28	27	26	25	25	25	26	28	29	31	33	35	37	39	40	40	40	40	40	39	40.5
Hourly Max	56.4	54.3	52.4	51.3	50.9	48.0	46.0	45.1	45.8	46.9	48.3	49.7	50.6	51.7	54.2	55.6	59.0	61.7	62.9	63.3	62.7	61.9	60.3	58.4	

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

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

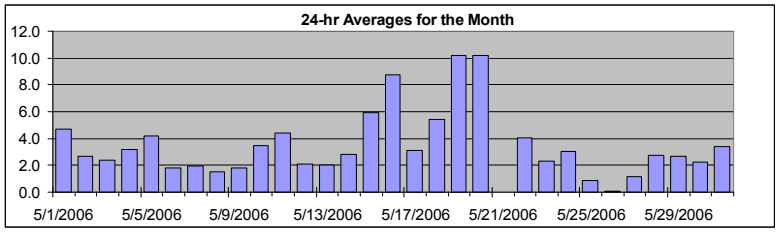
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 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:	36.0	µg/m³	19-May	13:00 14:00
Maximum 24-hr Value:	10.2	µg/m³	19-May	



AIC Time:	0 hrs							Operational Time:														728 hrs		
Calibration Time:	5 hrs							AMD Operational Uptime:														98.5%		
Percentile	99	95	75	50	25	5	1	Average / Median														Geomean		
	16.5	10.2	4.4	2.7	1.4	0.0	0.0	3.5	3 µg/m˜													2.6 µg/m˜		

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	4	8	9	6	5	10	5	5	4	2	2	3	2	4	4	4	4	5	5	6	5	5	2	1	4.7	10.0
2-May-06	2	2	2	2	3	4	3	3	3	3	3	2	2	2	1	2	1	2	2	3	3	5	4	5	2.7	4.7
3-May-06	5	4	5	3	5	4	4	3	2	1	0	0	0	0	1	1	1	1	2	2	4	2	3	3	2.4	5.5
4-May-06	3	3	3	3	3	3	4	4	5	1	2	2	2	1	2	2	2	3	3	4	7	4	6	5	3.2	6.5
5-May-06	7	7	6	5	4	4	6	5	3	3	2	2	2	2	1	1	1	2	4	5	7	8	9	5	4.2	8.7
6-May-06	5	4	4	4	4	4	3	2	2	0	0	1	1	0	1	1	0	1	2	0	2	1	1	1	1.8	4.7
7-May-06	3	3	2	2	2	4	4	4	1	0	1	0	0	0	0	0	1	1	2	4	4	4	2	1	1.9	4.4
8-May-06	2	0	1	2	2	1	3	2	2	2	3	2	0	0	0	0	1	1	1	2	3	4	2	2	1.5	3.6
9-May-06	1	1	2	2	1	2	2	1	1	1	1	0	0	1	1	1	1	2	3	3	4	4	4	4	1.8	4.2
10-May-06	4	4	3	3	3	3	4	3	3	5	2	2	2	3	3	4	3	4	3	4	2	5	4	5	3.5	5.3
11-May-06	5	5	4	4	5	5	8	8	2	1	2	3	2	1	4	7	4	5	4	5	8	7	5	4	4.4	8.3
12-May-06	3	2	5	5	4	4	1	0	1	1	1	2	2	3	2	1	0	0	1	3	2	2	1	2	2.1	4.9
13-May-06	1	2	3	3	2	3	3	2	1	0	0	0	1	1	1	2	2	3	3	2	4	3	3	4	2.0	4.4
14-May-06	3	2	3	3	2	2	3	3	1	1	0	0	1	2	2	2	3	3	4	5	5	6	5	4	2.8	6.0
15-May-06	4	4	6	5	5	5	9	9	5	3	2	4	4	4	4	6	5	5	10	11	13	9	5	5	5.9	13.4
16-May-06	5	4	5	5	5	8	11	11	8	8	8	9	7	7	9	7	10	11	12	14	18	20	3	3	8.8	19.6
17-May-06	1	1	1	1	2	4	5	3	4	2	5	6	5	2	4	5	4	4	2	3	3	2	4	4	3.1	5.6
18-May-06	4	4	5	4	3	5	8	6	4	4	2	3	3	4	3	3	3	4	4	12	14	14	9	7	5.5	14.5
19-May-06	5	6	5	6	4	6	9	10	8	8	7	8	24	36	10	10	8	7	9	17	10	11	P	13	10.2	36.0
20-May-06	7	6	2	1	3	28	16	14	8	6	7	9	11	12	11	14	11	11	15	16	12	10	10	6	10.2	27.6
21-May-06	D	D	D	D	0	1	1	0	D	D	D	0	0	0	1	1	2	0	3	4	3	4	4	3	N	4.2
22-May-06	3	4	2	1	4	3	5	4	0	0	1	2	4	0	21	11	3	4	5	5	4	6	D	0	4.0	20.7
23-May-06	0	12	2	1	3	0	2	3	2	6	0	1	0	D	4	1	0	0	3	1	4	3	3	0	2.3	12.1
24-May-06	8	0	4	1	6	4	1	4	1	1	4	3	2	5	1	6	9	2	0	4	5	0	1	0	3.1	9.4
25-May-06	1	3	2	1	0	2	3	1	0	1	0	C	C	C	C	C	0	D	0	0	0	0	0	0	0.9	2.9
26-May-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
27-May-06	0	0	0	0	0	2	2	3	1	0	0	0	2	0	0	0	1	0	0	8	3	1	2	2	1.1	7.8
28-May-06	2	1	1	2	3	5	5	3	3	9	4	4	2	0	0	3	1	3	2	2	3	3	2	2	2.7	8.7
29-May-06	3	3	3	3	4	4	2	3	2	2	2	2	3	4	3	3	3	3	4	3	0	2	2	2	2.7	4.3
30-May-06	2	3	3	4	3	3	3	3	4	3	1	0	2	0	1	2	2	2	2	2	2	2	2	1	2.2	4.5
31-May-06	2	2	2	1	2	3	2	3	4	2	0	1	2	2	2	0	2	1	3	3	20	10	6	6	3.4	19.9
Hourly Avg	3.2	3.4	3.1	2.8	3.1	4.4	4.4	4.1	2.9	2.5	2.1	2.4	2.9	3.3	3.3	3.3	2.9	3.0	3.6	4.9	5.6	5.1	3.7	3.2		
Hourly Max	8.1	12.1	9.5	6.4	6.2	27.6	16.1	14.2	7.9	8.7	8.4	9.5	24.0	36.0	20.7	14.5	10.6	11.1	14.9	16.6	19.9	19.6	10.3	13.0		

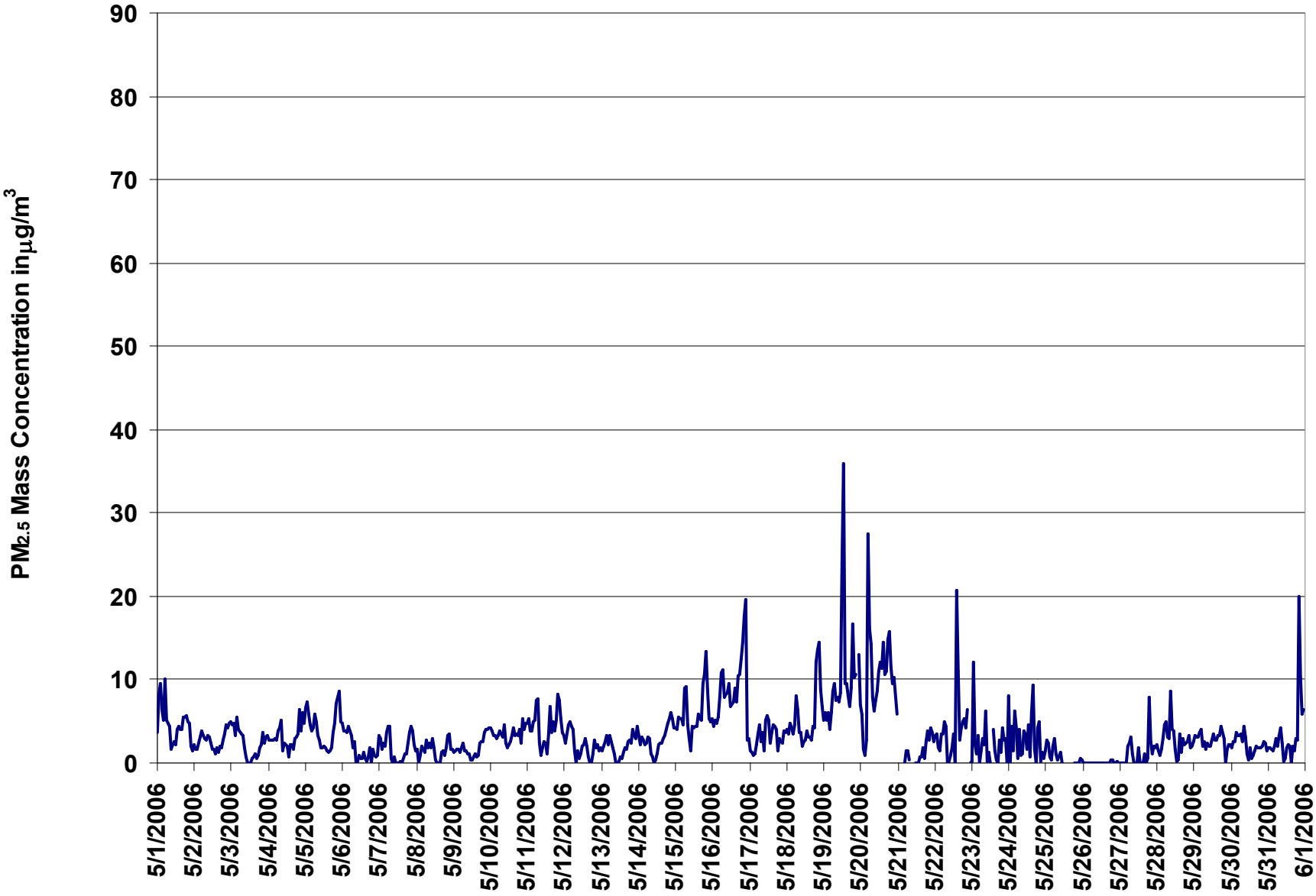


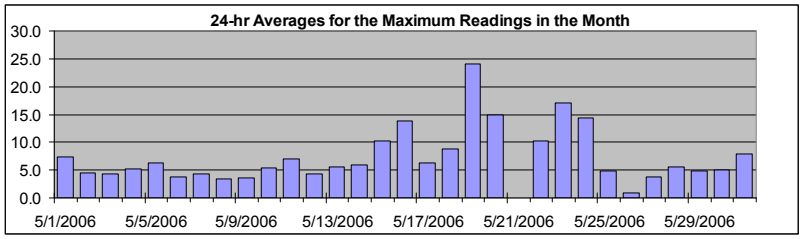
Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	151.9	µg/m³	19-May	13:00 14:00
Maximum 24-hr Value:	24.1	µg/m³	19-May	

AIC Time:	0 hrs	Operational Time:	728 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	98.5%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	39.1	18.4	7.7	5.4	3.7	1.8	0.1	7.4 / 5 µg/m³	6.2 µg/m³

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	5	15	15	9	8	15	7	6	6	6	4	5	4	6	7	7	7	7	8	7	7	8	4	3	7.4	15.3
2-May-06	4	3	2	4	4	5	5	5	4	6	5	5	4	5	3	3	5	3	3	5	5	6	5	8	4.5	7.9
3-May-06	8	7	7	6	8	5	5	5	4	2	3	1	2	3	3	3	2	2	5	4	5	4	5	4	4.3	8.4
4-May-06	4	4	4	4	4	4	6	6	7	6	4	4	4	2	4	4	4	5	5	5	12	6	9	6	5.1	11.9
5-May-06	8	9	8	6	5	6	9	10	5	5	5	4	4	4	3	3	3	3	6	7	10	10	12	6	6.2	11.5
6-May-06	6	5	6	5	7	6	7	4	4	3	3	3	3	2	4	2	2	2	4	2	6	2	4	3	3.8	7.0
7-May-06	5	4	4	5	3	7	8	9	3	1	4	3	2	1	3	1	4	3	6	6	7	5	4	3	4.2	8.9
8-May-06	3	2	3	3	4	3	5	4	4	4	5	4	2	3	2	1	4	3	3	4	5	5	3	3	3.4	5.0
9-May-06	3	3	3	3	3	3	4	2	4	3	3	2	3	4	4	5	3	4	4	4	6	5	5	6	3.7	6.1
10-May-06	6	5	5	5	4	5	6	5	5	7	5	4	4	6	6	6	6	5	7	7	4	7	5	6	5.5	7.5
11-May-06	7	8	7	5	8	7	11	11	6	3	3	5	5	3	5	14	7	8	6	6	11	10	7	6	7.1	14.2
12-May-06	4	6	6	7	8	6	4	2	3	2	3	4	6	4	4	5	3	3	4	5	5	4	4	3	4.4	7.6
13-May-06	3	6	4	6	4	5	6	4	4	4	2	3	4	6	4	6	5	7	7	5	16	7	8	8	5.6	15.8
14-May-06	8	4	5	5	5	5	6	5	5	3	3	2	5	6	7	5	6	5	7	7	8	9	8	11	5.9	11.3
15-May-06	7	7	8	8	11	9	15	13	12	6	5	7	7	8	8	11	7	7	25	15	21	11	9	7	10.2	24.6
16-May-06	7	6	6	6	8	15	23	20	12	12	11	12	13	10	12	12	14	19	27	19	23	33	8	7	13.9	32.9
17-May-06	4	4	3	4	6	7	8	8	8	6	7	7	8	7	7	10	9	7	5	5	6	5	7	6	6.3	9.6
18-May-06	7	6	7	5	5	6	13	9	10	7	4	5	6	7	7	6	5	7	6	20	23	19	12	9	8.8	23.3
19-May-06	6	8	7	8	6	9	10	12	10	10	10	10	146	152	14	14	13	10	27	27	14	15	P	17	24.1	151.9
20-May-06	9	9	3	3	6	46	31	24	12	9	12	12	17	16	15	17	14	14	20	21	13	11	12	12	15.0	46.0
21-May-06	D	D	D	D	2	4	4	5	D	D	D	2	5	3	6	5	5	4	5	8	5	7	7	5	N	7.7
22-May-06	5	5	3	4	7	6	7	7	5	4	5	4	7	4	61	33	8	8	8	8	6	14	D	18	10.3	61.5
23-May-06	9	45	10	9	27	14	11	9	21	46	9	24	12	D	15	9	13	8	6	4	22	24	27	16	17.0	45.7
24-May-06	37	14	21	16	13	7	6	17	15	10	13	15	22	17	9	16	40	9	6	11	12	8	4	6	14.4	39.8
25-May-06	5	9	9	4	6	5	7	5	7	10	9	C	C	C	C	C	7	D	1	0	0	1	1	2	4.9	9.6
26-May-06	2	0	0	0	0	1	1	2	1	1	0	0	0	1	0	1	0	2	3	2	2	2	1	1	0.9	3.2
27-May-06	1	2	4	3	5	5	6	5	3	1	2	2	3	2	2	2	4	2	3	18	4	3	3	3	3.7	17.9
28-May-06	4	3	2	4	5	8	8	5	4	14	8	6	4	4	4	11	4	7	4	5	5	5	3	4	5.5	14.0
29-May-06	4	4	5	5	6	6	5	4	3	4	3	3	4	5	6	5	6	6	9	6	4	5	4	5	4.8	8.9
30-May-06	5	5	5	5	6	5	5	5	13	6	4	4	5	3	4	6	4	4	5	5	6	4	4	2	5.0	12.6
31-May-06	3	3	3	3	4	5	4	6	6	6	3	3	6	6	7	1	5	4	5	6	47	27	18	8	7.9	47.0
Hourly Avg	6.3	7.0	5.8	5.4	6.5	7.8	8.1	7.5	6.9	6.9	5.2	5.5	10.6	10.3	7.9	7.5	7.1	6.0	7.7	8.1	10.3	9.0	7.1	6.6		
Hourly Max	37.4	45.1	21.1	16.0	27.0	46.0	30.6	24.5	21.5	45.7	13.4	24.0	146.3	151.9	61.5	32.9	39.8	18.6	26.8	27.2	47.0	32.9	26.6	18.1		

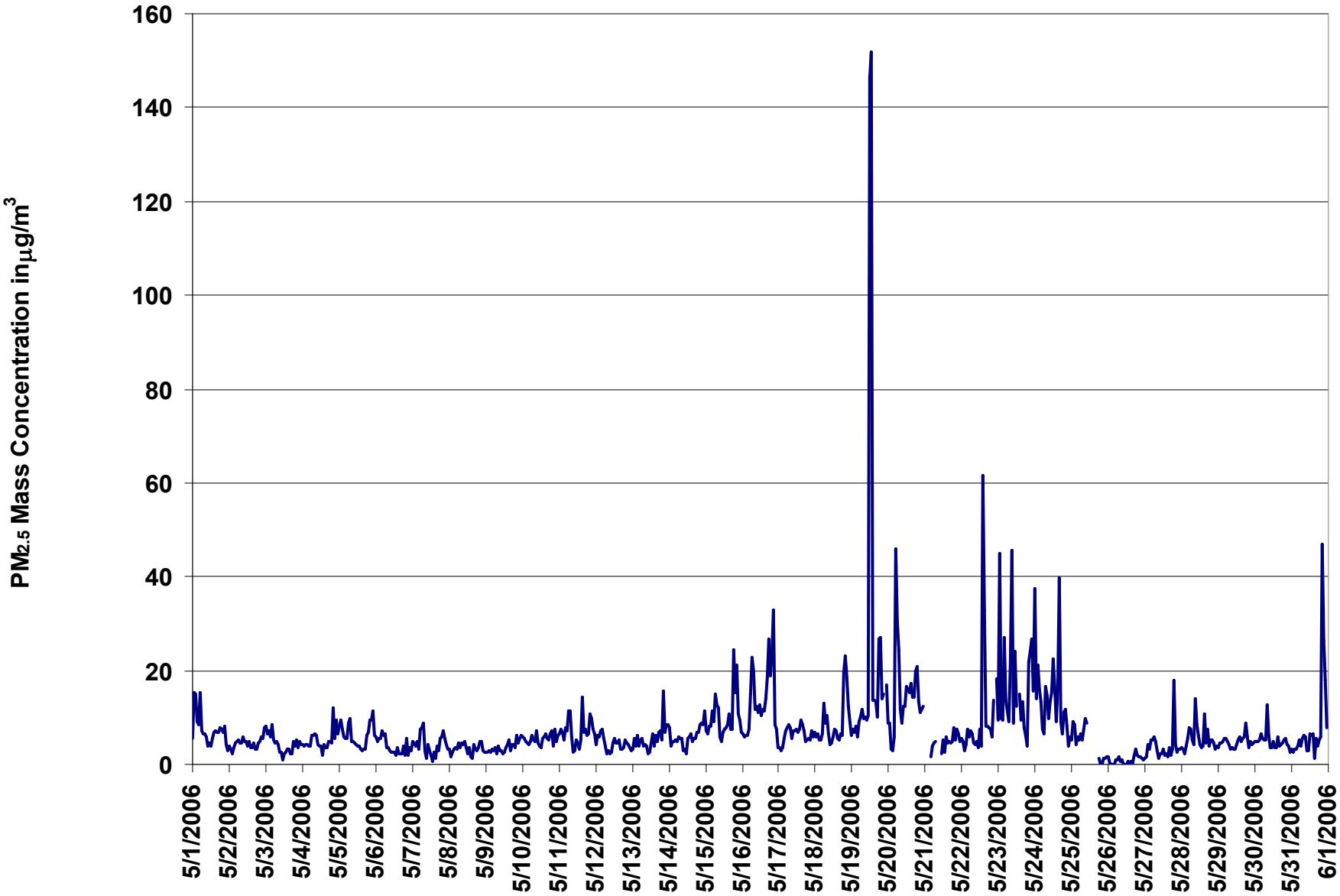
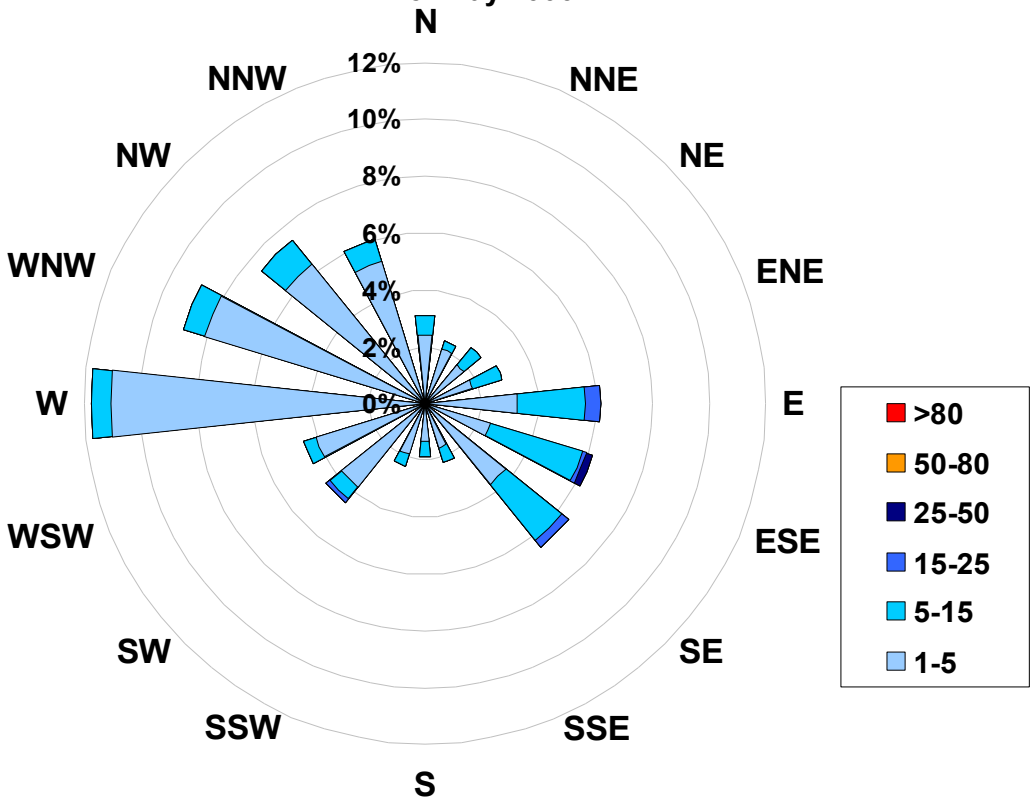


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	592
5	to	15	126
15	to	25	8
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			728

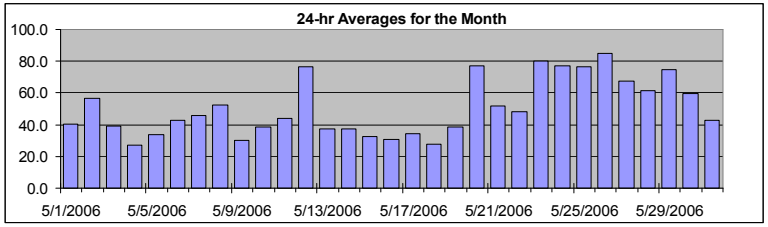
PASZA - Beaverlodge - Relative Humidity Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	95.5	%	30-May	4:00 5:00
Maximum 24-hr Value:	84.7	%	26-May	

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
	94.7	90.5	69.2	46.8	30.7	18.7	16.3	50.5 %	46.8 %

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	35	38	40	45	46	55	51	47	42	32	27	25	25	27	29	30	30	35	43	52	54	53	53	58	40.4	57.8
2-May-06	60	58	60	61	65	73	76	73	72	74	82	73	62	53	44	41	35	33	34	36	42	47	48	54	56.5	81.9
3-May-06	61	65	70	80	84	80	69	58	46	33	23	18	17	17	16	16	16	15	17	21	23	27	31	33	38.9	83.6
4-May-06	36	39	39	44	44	43	39	32	28	19	19	18	18	18	18	17	15	15	17	23	26	27	28	32	27.3	44.3
5-May-06	36	41	45	48	47	49	44	38	34	31	29	29	28	27	25	24	24	25	25	28	32	34	38	34	34.0	49.2
6-May-06	37	42	50	55	58	60	48	42	40	37	31	31	31	32	35	36	35	34	34	39	50	56	58	57	42.9	59.6
7-May-06	62	62	59	59	60	65	63	56	52	47	48	39	33	24	24	24	23	24	25	34	46	53	59	55	45.7	64.5
8-May-06	56	56	57	61	67	64	70	74	82	84	88	86	71	50	33	27	26	24	23	22	26	33	38	39	52.4	88.4
9-May-06	41	42	43	45	45	48	41	35	30	27	24	22	20	18	16	15	16	17	21	23	29	34	35	41	30.3	47.6
10-May-06	46	49	50	55	56	60	54	48	45	38	31	28	26	25	24	26	27	28	29	32	33	36	35	38	38.3	59.6
11-May-06	41	47	53	50	59	57	58	51	35	32	31	29	28	24	24	31	30	30	32	35	49	65	78	83	43.8	83.4
12-May-06	83	83	90	91	91	92	90	90	90	95	94	91	88	88	82	76	61	49	46	46	49	58	57	55	76.4	94.6
13-May-06	58	64	61	63	66	67	57	46	40	31	25	21	19	18	16	17	19	20	21	27	28	33	32	42	37.1	66.8
14-May-06	48	42	53	60	66	62	57	54	47	38	29	27	24	22	22	22	22	23	23	24	27	32	39	34	37.4	66.3
15-May-06	33	38	44	56	57	59	58	47	36	30	23	23	22	20	18	16	18	18	18	21	26	30	32	32	32.4	58.7
16-May-06	31	35	36	36	40	50	47	45	38	33	32	26	23	21	18	17	17	17	20	24	26	31	35	42	30.9	50.0
17-May-06	48	50	54	54	58	56	54	40	32	28	28	28	27	23	21	22	24	24	24	24	25	25	27	28	34.3	58.0
18-May-06	31	33	34	35	35	35	38	32	26	25	22	21	20	19	18	18	18	19	20	26	32	35	35	36	27.6	37.8
19-May-06	36	39	42	44	41	39	42	40	39	35	32	29	28	25	24	24	27	29	32	48	52	54	62	61	38.6	62.0
20-May-06	63	68	65	62	64	67	69	70	68	66	70	74	72	80	83	86	86	87	88	90	90	92	94	95	77.0	95.1
21-May-06	88	88	83	70	68	69	67	70	57	46	37	35	31	28	29	28	30	33	37	40	44	52	54	55	51.6	88.4
22-May-06	64	70	72	74	77	73	67	60	48	39	35	33	31	29	27	27	27	29	32	33	34	37	68	64	47.9	76.7
23-May-06	66	71	81	85	87	87	87	90	91	93	91	85	81	79	76	69	71	73	75	75	78	75	79	76	80.0	93.1
24-May-06	81	82	85	86	88	88	85	81	65	65	66	72	61	59	65	75	76	68	68	72	84	92	96	93	77.3	95.5
25-May-06	90	92	94	94	94	94	91	84	81	76	68	64	63	60	59	61	63	62	63	64	72	77	79	84	76.2	94.3
26-May-06	89	91	88	90	90	90	92	91	89	89	88	85	82	81	82	82	73	69	74	82	81	82	86	89	84.7	91.6
27-May-06	90	91	94	95	95	91	79	76	77	62	57	55	71	61	46	36	44	42	45	49	58	65	69	71	67.3	95.0
28-May-06	69	76	78	78	88	87	79	72	65	59	57	56	52	41	32	47	40	39	45	48	51	65	73	73	61.3	87.8
29-May-06	77	85	87	84	84	86	84	81	80	79	77	71	64	59	52	48	46	46	63	75	91	89	90	89	74.5	90.6
30-May-06	91	91	95	95	96	96	93	84	70	60	49	44	44	37	32	27	27	27	29	33	45	51	56	56	59.5	95.5
31-May-06	64	63	64	73	75	68	60	58	53	44	34	30	28	29	26	22	23	22	21	25	35	36	37	44	43.0	74.6
Hourly Avg	58.4	60.9	63.4	65.4	67.4	68.0	64.8	60.2	54.8	49.9	46.7	44.2	41.6	38.5	36.0	35.7	35.1	34.8	37.0	40.9	46.4	50.9	54.9	56.2		
Hourly Max	91.2	92.3	95.0	95.1	95.5	95.5	92.7	91.1	91.0	94.6	94.4	90.8	88.2	87.7	82.7	85.8	86.5	87.4	88.4	89.5	90.6	92.4	95.5	95.1		

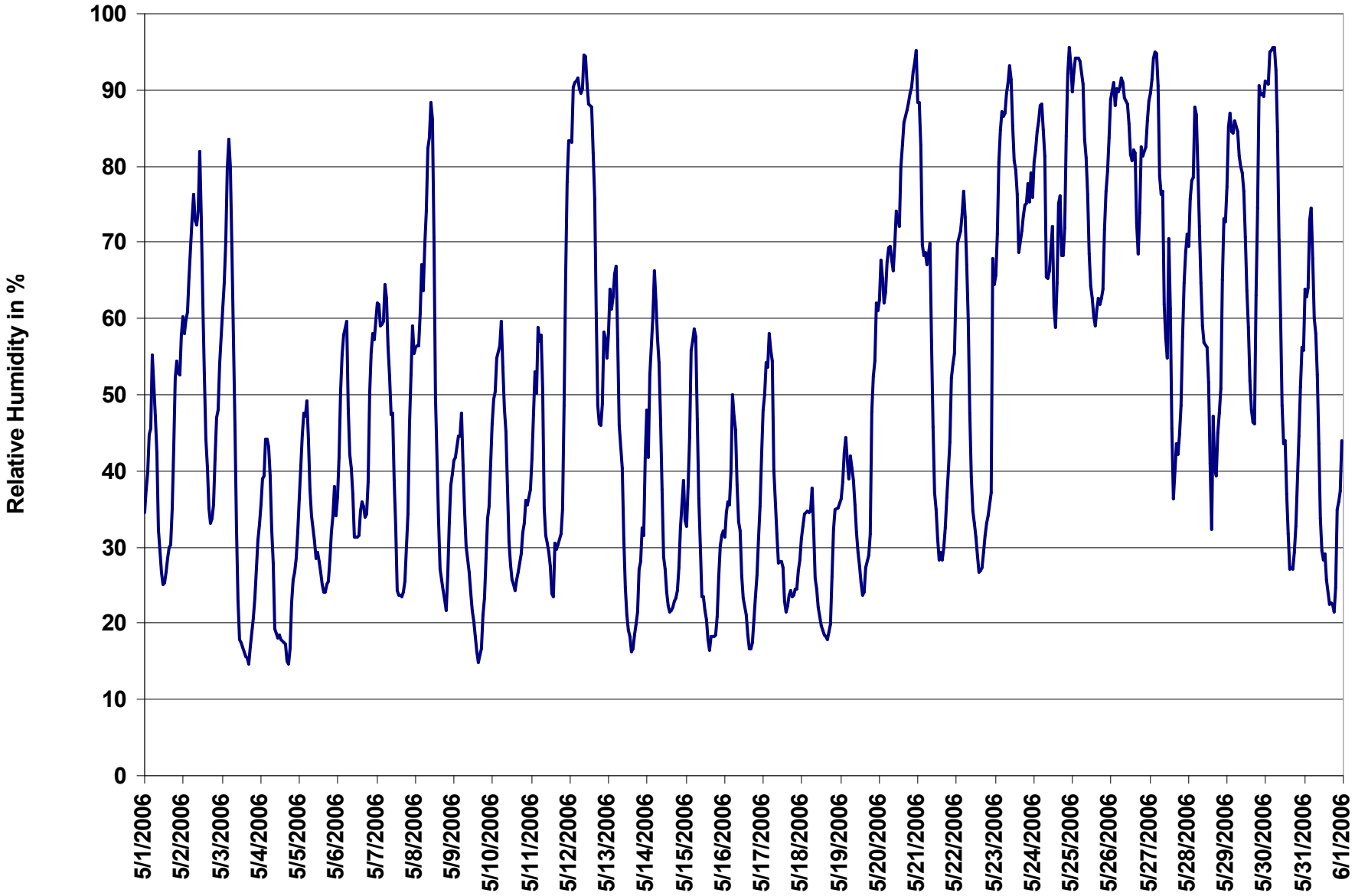


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

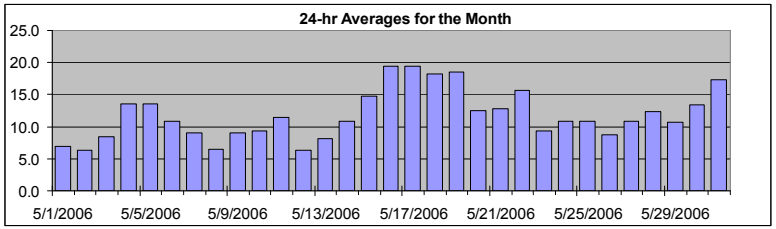
PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	28.7	°C	16-May	17:00 18:00
Maximum 24-hr Value:	19.5	°C	16-May	

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
	25.2	22.2	15.5	11.5	7.8	3.5	0.6	11.8 °C	11.5 °C

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-06	5	4	4	3	3	1	2	4	6	8	10	11	12	11	11	10	10	10	8	8	7	7	6	5	7.0	11.5
2-May-06	4	4	4	4	4	4	4	4	5	4	4	6	7	9	10	10	10	11	11	10	8	6	6	4	6.3	11.0
3-May-06	2	1	0	-2	-3	-2	0	3	5	9	12	13	14	15	16	17	17	17	16	14	13	11	9	8	8.5	16.8
4-May-06	7	6	6	4	4	5	7	10	13	17	18	19	20	19	19	20	20	20	19	16	15	14	13	11	13.5	20.5
5-May-06	9	8	7	6	7	7	10	12	13	15	17	16	16	18	19	19	19	18	18	16	15	13	12	14	13.6	19.2
6-May-06	13	12	9	8	8	7	11	12	13	13	13	13	14	14	13	12	12	13	12	11	8	6	5	5	10.8	14.1
7-May-06	4	4	5	5	4	4	5	8	10	11	10	12	12	14	14	14	14	14	13	11	9	7	6	6	9.0	14.3
8-May-06	6	5	5	5	4	4	3	3	2	2	2	2	5	8	10	11	12	12	11	11	10	8	7	6	6.5	11.8
9-May-06	5	4	4	3	3	3	5	7	8	10	11	12	13	14	15	15	15	15	13	12	10	7	6	4	9.0	15.5
10-May-06	3	2	2	1	1	0	2	4	6	9	12	14	15	16	16	16	16	15	15	15	12	11	11	10	9.3	16.2
11-May-06	8	7	5	6	4	5	5	8	12	14	15	16	17	18	18	16	16	16	15	14	12	10	8	8	11.4	17.9
12-May-06	8	8	7	7	7	6	6	5	4	3	4	4	5	5	6	7	9	10	10	10	8	5	5	5	6.3	9.7
13-May-06	3	1	1	1	0	0	3	5	7	9	11	12	13	13	15	14	13	13	13	11	11	9	8	6	8.2	14.5
14-May-06	5	6	4	3	1	2	4	6	8	11	13	13	14	16	17	17	17	17	17	17	15	13	11	11	10.9	17.4
15-May-06	10	9	7	5	5	5	7	11	14	16	17	18	19	20	21	23	21	21	21	21	18	16	15	14	14.8	22.6
16-May-06	13	12	12	11	10	8	12	13	15	18	18	22	23	25	27	28	28	29	28	26	24	23	22	20	19.5	28.7
17-May-06	18	18	16	16	14	14	15	19	20	21	21	22	23	24	25	25	24	23	22	20	19	16	15	14	19.4	24.7
18-May-06	14	13	13	13	13	13	14	17	19	19	20	21	22	23	23	23	24	23	22	21	18	17	16	17	18.2	23.5
19-May-06	16	16	14	14	15	15	15	16	17	19	20	22	23	24	25	25	23	22	21	19	17	16	15	15	18.6	25.4
20-May-06	14	13	13	13	13	12	12	12	12	13	13	13	14	12	12	12	12	12	12	12	12	12	12	11	12.5	14.2
21-May-06	10	9	9	9	8	8	10	10	11	13	13	14	16	18	18	18	18	16	15	15	14	12	12	11	12.9	17.9
22-May-06	9	9	9	8	7	8	11	13	16	17	18	19	20	21	22	22	22	21	21	20	19	18	14	13	15.7	21.9
23-May-06	13	12	10	10	9	9	8	8	8	7	7	9	9	10	10	12	11	11	10	9	9	9	9	9	9.4	13.0
24-May-06	8	8	8	8	8	8	8	9	12	12	12	12	15	16	14	13	13	14	13	13	11	9	9	9	10.9	16.2
25-May-06	10	9	9	9	8	8	9	10	10	11	12	13	13	13	14	13	13	13	13	12	11	9	9	9	10.9	14.0
26-May-06	9	8	8	7	7	7	8	8	8	8	8	9	9	10	10	10	11	12	11	10	10	9	8	7	8.8	11.9
27-May-06	7	6	5	4	4	5	9	11	10	12	13	13	11	12	16	17	16	16	15	15	14	11	10	9	10.9	17.0
28-May-06	9	8	7	7	5	5	7	9	11	13	14	16	16	18	19	15	17	17	16	16	15	12	11	10	12.3	19.4
29-May-06	10	9	8	9	9	8	8	8	7	8	8	10	13	14	16	17	17	17	14	11	9	9	9	9	10.6	17.1
30-May-06	8	8	7	7	6	6	7	9	12	14	17	17	17	19	19	20	20	20	19	18	16	13	12	12	13.4	20.1
31-May-06	10	10	10	7	7	9	11	12	16	18	20	22	22	22	23	25	24	24	25	23	21	19	18	16	17.3	25.0
Hourly Avg	8.7	8.1	7.4	6.8	6.3	6.3	7.6	9.2	10.7	12.1	13.1	14.0	15.0	15.9	16.6	16.6	16.7	16.5	15.8	14.8	13.2	11.5	10.6	10.0		
Hourly Max	18.2	17.6	16.3	15.7	14.6	15.2	15.4	18.6	19.9	20.8	21.3	22.2	23.0	24.8	26.5	27.8	28.4	28.7	27.5	26.3	24.3	22.7	21.9	20.0		

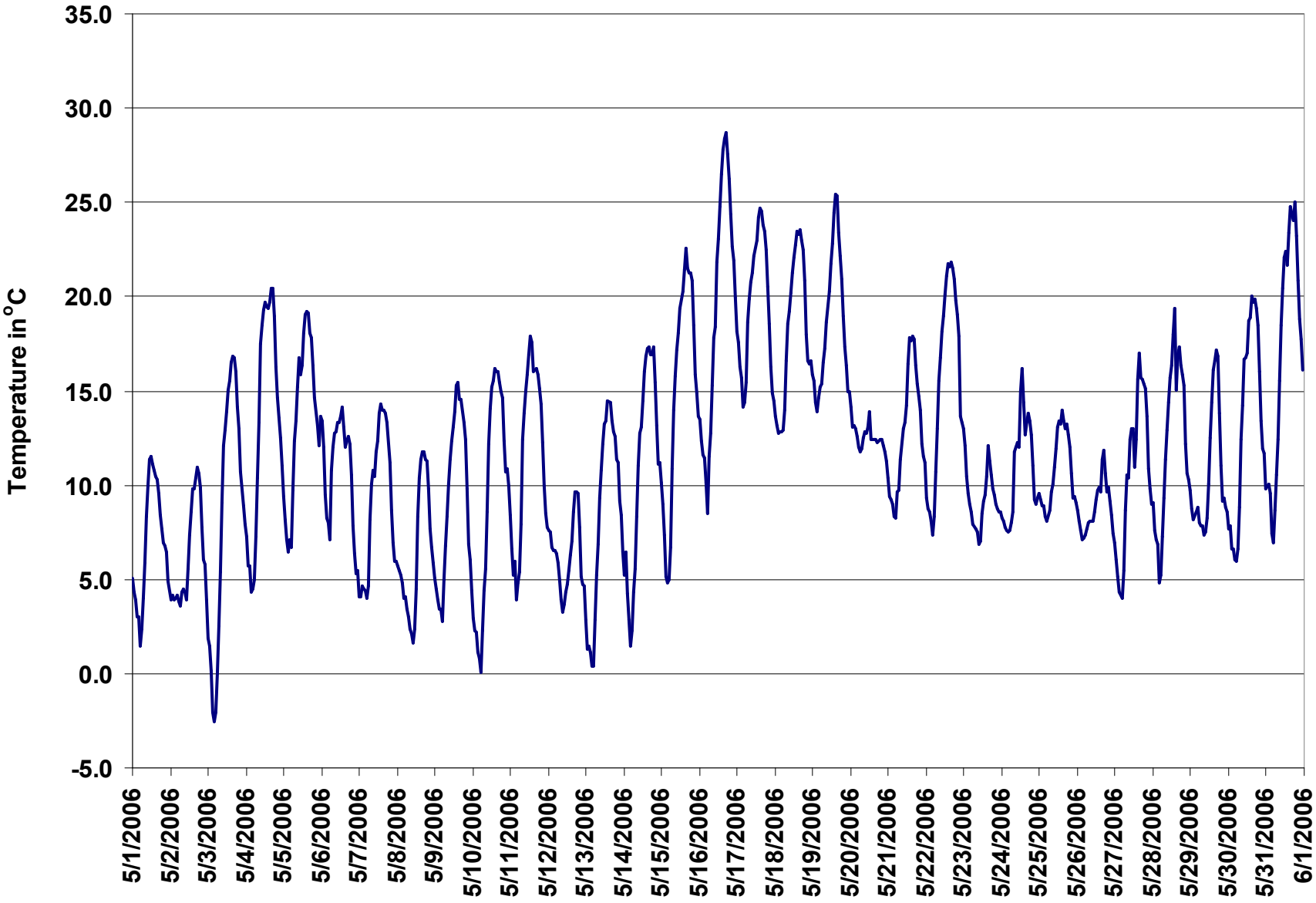


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

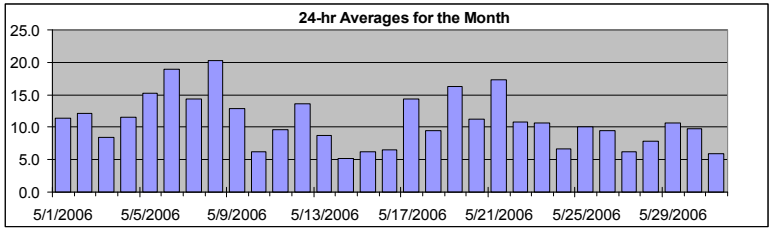
PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	31.8	km/hr	21-May	14:00 15:00
Maximum 24-hr Value:	20.2	km/hr	8-May	

Calm Time:	0 hrs	**0%** calms		Operational Time:			744 hrs	
Calibration Time:	0 hrs			AMD Operational Uptime:			100.0%	
Percentile	99	95	75	50	25	5	1	AverageS
	29.2	24.0	15.1	9.5	5.5	2.9	2.2	10.9 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-06	7	7	8	6	5	8	9	8	10	13	12	11	11	13	13	13	15	20	19	16	15	16	13	10	11.5	20.2
2-May-06	8	7	8	10	14	18	19	17	17	16	14	14	15	15	16	16	13	12	9	8	7	6	5	5	12.1	18.8
3-May-06	4	4	2	2	1	2	4	3	4	5	6	10	11	9	12	10	14	17	17	15	17	15	10	8	8.4	17.4
4-May-06	10	5	3	3	3	4	2	4	5	19	21	19	19	19	21	17	20	24	24	16	9	5	3	3	11.5	24.2
5-May-06	2	2	3	4	5	3	8	15	21	21	26	29	26	30	29	28	26	22	16	12	8	7	6	16	15.2	30.1
6-May-06	16	15	12	10	8	3	18	21	21	28	28	28	23	23	26	31	29	29	29	26	14	9	5	5	19.0	30.6
7-May-06	4	5	5	5	4	4	2	6	19	24	25	27	28	28	22	19	13	10	15	18	18	15	15	14	14.3	28.4
8-May-06	21	22	25	22	21	22	24	21	17	15	17	18	18	16	21	21	21	21	18	18	22	21	23	22	20.2	24.7
9-May-06	20	19	15	13	13	8	8	15	20	19	15	12	13	10	9	10	10	12	18	17	13	10	6	3	12.8	20.4
10-May-06	3	2	3	4	4	3	3	3	5	6	5	7	9	7	8	13	12	8	9	9	12	4	5	6	6.2	12.8
11-May-06	6	4	3	3	4	6	5	5	8	13	15	16	14	12	10	14	12	15	11	9	13	14	11	10	9.7	15.6
12-May-06	9	8	6	6	5	5	10	16	19	14	16	16	18	17	16	16	24	21	21	18	15	11	10	11	13.6	23.7
13-May-06	9	4	6	3	2	3	5	9	13	16	18	18	10	12	9	10	12	10	8	9	8	10	5	3	8.7	17.9
14-May-06	2	6	3	4	3	2	2	4	4	4	5	6	6	6	7	7	8	9	9	7	5	4	6	4	5.2	9.2
15-May-06	4	3	4	4	4	4	4	3	4	4	6	7	7	7	6	5	8	8	9	9	5	9	15	11	6.2	14.7
16-May-06	8	5	3	3	2	3	3	4	3	4	5	4	8	8	7	8	7	5	6	5	6	16	19	15	6.5	19.3
17-May-06	7	7	6	4	3	3	2	10	20	20	21	19	21	29	25	24	24	21	20	19	15	8	10	6	14.3	28.8
18-May-06	6	7	9	7	6	7	4	5	10	14	14	12	11	10	10	12	9	11	8	12	10	9	12	11	9.4	14.2
19-May-06	10	11	13	11	11	17	17	19	19	21	22	20	19	18	17	16	26	26	21	14	10	10	13	10	16.3	26.4
20-May-06	13	14	18	18	14	15	17	14	13	11	11	10	11	13	12	10	8	9	9	8	5	5	4	9	11.3	18.0
21-May-06	8	9	11	5	7	6	5	12	20	23	29	28	25	29	32	29	31	32	24	18	11	8	8	6	17.3	31.8
22-May-06	3	4	4	3	4	3	2	3	6	8	7	10	12	14	16	16	18	18	19	18	19	24	14	16	10.9	23.9
23-May-06	19	21	24	14	10	10	8	6	6	11	10	11	8	8	11	12	11	11	9	7	8	7	4	6	10.7	24.3
24-May-06	9	4	4	3	4	4	4	5	3	4	4	5	5	6	10	9	7	11	12	9	9	12	9	10	6.7	11.7
25-May-06	6	4	5	4	6	5	6	9	10	11	16	14	13	14	15	14	14	17	16	11	7	7	7	7	10.0	17.3
26-May-06	6	9	9	6	6	5	5	7	11	14	13	14	15	15	15	14	15	14	10	5	6	4	3	5	9.4	15.2
27-May-06	4	3	4	2	3	3	2	3	5	5	5	6	16	11	6	5	8	8	10	10	7	6	8	7	6.1	15.9
28-May-06	6	8	8	6	5	5	6	5	4	4	5	7	12	9	8	17	11	10	14	7	5	12	8	4	7.8	16.6
29-May-06	2	5	6	7	12	17	17	14	12	11	9	10	13	12	14	13	11	10	14	20	9	7	7	6	10.7	20.0
30-May-06	5	3	4	3	2	2	4	3	8	13	15	14	11	10	13	18	20	17	19	16	10	8	9	7	9.7	20.1
31-May-06	5	7	8	4	4	3	4	6	6	10	12	9	10	7	6	5	6	6	3	4	4	5	6	4	5.9	11.5
1-hr Average	7.8	7.5	7.8	6.5	6.3	6.6	7.4	8.9	11.1	13.0	13.8	13.9	14.0	14.0	14.1	14.5	15.0	14.9	14.5	12.6	10.4	9.8	9.0	8.3		
Hourly Max	20.7	21.8	24.7	22.1	21.4	21.7	24.4	21.3	20.9	28.2	28.7	28.5	28.4	30.1	31.8	30.6	31.0	31.6	29.2	25.6	22.0	23.9	23.1	21.6		

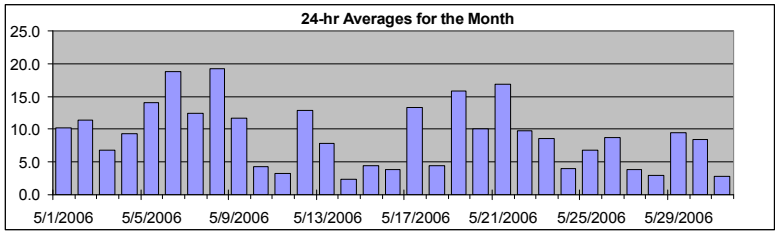
PASZA - Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2006 to June 1, 2006



Summary

Maximum 1-hr Average:	31.6	km/hr	21-May	14:00 15:00
Maximum 24-hr Value:	19.2	km/hr	8-May	

Calm Time:	7 hrs	**1%** calms	Operational Time: 737 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageV
	28.9	23.8	14.8	9.0	4.9	2.1	1.2	3.8 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-06	7	6	8	6	4	8	9	8	10	13	12	9	9	12	11	12	14	20	19	16	15	16	13	10	10.1	19.9
2-May-06	8	7	8	10	14	18	19	17	17	15	14	14	15	15	16	15	13	11	9	8	7	6	5	2	11.4	18.7
3-May-06	3	4	1	2	calm	2	3	2	4	4	5	9	10	7	11	9	13	17	17	15	17	15	10	8	6.8	17.2
4-May-06	10	1	2	2	3	3	2	3	5	18	21	19	19	18	20	16	20	23	24	16	9	5	2	2	9.4	24.0
5-May-06	2	2	3	4	5	3	7	14	21	21	26	28	26	30	29	28	26	22	16	12	8	7	6	16	14.0	29.8
6-May-06	16	15	12	10	8	2	18	21	21	28	28	27	23	22	25	30	29	29	29	25	14	9	4	4	18.7	30.4
7-May-06	3	4	4	3	3	3	2	4	19	23	25	27	28	28	22	18	12	9	15	18	18	14	15	14	12.4	28.0
8-May-06	21	22	25	22	21	22	24	21	17	15	16	18	18	16	20	20	20	20	17	17	22	21	23	22	19.2	24.6
9-May-06	20	19	15	13	13	7	8	15	20	19	14	12	12	8	8	7	9	11	17	17	12	10	6	3	11.7	20.3
10-May-06	2	2	3	4	3	3	2	2	5	6	4	6	7	5	6	12	11	8	8	8	12	4	5	6	4.3	12.2
11-May-06	5	3	1	3	3	6	2	5	8	13	14	15	13	11	7	11	12	13	10	7	13	14	11	10	3.3	14.5
12-May-06	9	7	6	6	3	5	10	16	19	14	16	16	18	17	16	16	24	21	21	18	15	11	10	11	12.9	23.5
13-May-06	8	3	6	2	2	2	4	9	12	16	18	17	8	11	8	9	11	10	8	9	6	9	5	2	7.8	17.6
14-May-06	1	6	2	1	2	2	1	4	4	3	3	5	4	4	3	5	7	9	9	7	4	2	5	4	2.3	9.0
15-May-06	4	3	4	2	4	3	2	1	2	2	5	5	5	6	4	2	6	7	9	9	5	9	15	11	4.5	14.7
16-May-06	8	5	3	3	calm	3	2	4	3	3	4	3	7	8	6	7	6	3	5	5	6	12	18	15	3.8	18.4
17-May-06	6	6	3	2	calm	2	1	9	19	20	21	18	21	28	25	23	24	21	20	19	15	8	10	6	13.3	28.5
18-May-06	6	7	9	7	6	7	3	5	10	13	14	11	9	9	8	11	8	10	7	12	10	9	12	11	4.4	13.9
19-May-06	10	11	13	11	11	17	17	19	19	21	22	20	18	17	16	15	26	26	20	13	9	7	13	10	15.9	26.2
20-May-06	13	14	18	18	14	15	17	14	13	11	11	10	10	13	12	10	8	9	9	8	5	5	4	9	10.1	18.0
21-May-06	8	9	10	5	7	6	5	11	19	23	28	27	24	29	32	29	31	31	24	18	11	8	8	4	16.8	31.6
22-May-06	3	3	3	2	3	3	calm	3	5	7	6	9	11	13	15	16	17	18	19	18	19	24	11	16	9.8	23.7
23-May-06	19	21	24	14	7	10	8	6	5	11	10	11	8	8	11	12	11	10	9	7	7	7	4	6	8.5	24.0
24-May-06	8	4	4	3	3	4	3	5	2	4	3	4	2	5	7	9	2	11	12	9	9	11	8	9	4.0	11.5
25-May-06	5	4	5	3	6	4	6	9	10	11	16	14	12	13	14	14	14	17	16	11	7	7	7	6	6.9	17.2
26-May-06	6	9	9	6	6	5	5	7	11	14	13	14	15	15	15	14	15	14	8	5	6	4	3	5	8.8	15.0
27-May-06	4	3	4	1	1	2	calm	1	4	4	5	4	15	10	5	3	7	7	10	10	7	6	8	6	3.9	15.5
28-May-06	6	8	8	6	5	4	6	5	4	4	4	6	11	8	4	16	10	6	14	7	5	11	7	3	3.0	16.5
29-May-06	2	4	6	7	12	16	17	14	12	11	9	10	12	11	13	13	11	9	14	19	7	3	7	6	9.4	19.3
30-May-06	4	2	2	2	calm	2	4	3	8	12	15	12	10	9	12	17	20	17	19	16	10	8	9	7	8.4	19.7
31-May-06	5	7	8	calm	4	2	3	6	5	10	10	8	9	6	5	3	5	5	2	3	4	5	6	3	2.8	10.2
1-hr Vector	1.9	0.8	1.4	1.0	2.1	1.7	2.3	3.7	5.5	6.4	6.9	6.0	5.1	5.6	5.9	6.1	5.7	5.3	4.3	4.1	3.5	3.9	2.1	2.2		
Hourly Max	20.5	21.7	24.6	22.0	21.3	21.5	24.3	21.2	20.8	28.0	28.5	28.4	28.0	29.8	31.6	30.4	30.9	31.4	29.1	25.4	22.0	23.7	23.0	21.6		

PASZA - Beaverlodge - Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: **May 1, 2006** to **June 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	
	355.5	338.7	288.1	241.7	110.6	28.4	7.6	293	deg

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-06	346	357	350	25	357	316	328	337	345	1	6	349	350	333	26	336	331	321	308	290	292	296	292	296	329	NNW
2-May-06	305	314	304	308	322	324	330	325	324	329	331	338	337	341	324	322	326	333	2	22	16	32	45	2	333	NNW
3-May-06	314	66	323	108	221	71	80	182	195	212	218	242	248	246	227	228	248	272	261	256	261	265	265	262	251	WSW
4-May-06	266	129	138	137	116	90	133	143	234	289	294	290	284	287	276	267	274	274	261	266	243	232	228	222	271	W
5-May-06	134	154	206	221	248	224	236	249	260	257	265	272	275	268	270	276	284	301	308	308	321	307	274	285	274	W
6-May-06	286	269	269	263	267	159	269	281	272	273	274	273	268	271	275	275	271	277	277	281	263	275	261	229	273	W
7-May-06	111	93	97	141	263	330	100	239	264	266	282	281	270	281	290	271	294	274	274	267	265	270	255	258	272	W
8-May-06	263	267	265	273	272	279	286	293	305	333	315	309	306	310	310	312	302	306	314	302	290	287	290	292	293	WNW
9-May-06	294	293	291	289	286	290	306	312	317	317	332	337	316	309	323	306	284	267	252	263	269	267	248	232	295	WNW
10-May-06	200	123	96	87	190	89	231	219	216	212	207	213	208	225	256	260	246	246	236	270	294	312	307	325	243	WSW
11-May-06	349	52	347	351	314	338	355	62	126	135	135	150	154	135	151	171	92	135	74	52	336	322	348	3	96	E
12-May-06	355	357	317	304	286	267	296	290	282	283	296	286	288	286	291	291	289	294	280	278	281	265	261	255	288	WNW
13-May-06	256	222	233	175	133	95	230	250	254	264	266	270	232	254	270	239	232	228	255	270	233	268	313	198	251	WSW
14-May-06	124	303	242	236	120	85	155	220	203	227	207	188	254	188	275	154	138	130	122	123	172	59	48	41	165	SSE
15-May-06	34	49	316	358	49	37	288	94	303	162	130	140	124	102	109	131	86	69	94	98	94	72	89	89	89	E
16-May-06	107	133	150	79	43	60	281	262	215	203	181	134	147	142	137	110	138	212	106	112	96	225	219	229	168	SSE
17-May-06	216	224	229	255	10	223	203	286	300	301	300	287	282	287	289	291	272	284	298	303	307	313	309	316	289	WNW
18-May-06	295	304	311	322	329	315	280	279	304	306	308	320	343	357	19	53	44	49	58	92	93	99	106	115	3	N
19-May-06	109	118	113	107	105	104	103	108	115	120	122	130	128	119	136	117	94	91	91	96	94	127	94	111	110	ESE
20-May-06	89	77	103	110	100	110	116	119	128	139	151	127	115	133	131	129	114	121	125	131	140	113	129	257	119	ESE
21-May-06	255	251	269	299	292	262	257	236	253	247	248	243	244	242	245	252	266	266	268	278	280	278	281	280	257	WSW
22-May-06	188	178	32	51	65	69	41	270	41	76	106	110	97	107	90	91	84	89	86	75	73	79	89	60	84	E
23-May-06	64	78	70	39	27	67	62	30	23	337	351	11	6	342	326	341	353	354	349	3	18	326	348	8	22	NNE
24-May-06	23	360	21	358	334	7	39	55	133	181	181	82	27	356	100	116	48	117	102	108	130	330	47	86	70	ENE
25-May-06	72	144	159	163	259	280	287	296	318	321	323	337	346	344	17	26	28	34	39	33	31	20	25	26	2	N
26-May-06	28	51	53	21	9	34	13	16	50	46	46	44	46	44	49	53	66	42	63	101	114	139	44	52	48	NE
27-May-06	49	30	20	28	31	19	277	233	215	223	214	175	77	95	103	161	82	125	128	135	109	90	120	94	109	ESE
28-May-06	79	89	94	96	217	168	142	126	125	171	194	121	141	146	237	298	245	207	157	151	170	277	344	317	169	S
29-May-06	251	242	283	319	328	333	330	329	336	336	342	344	340	344	339	340	349	332	261	292	307	273	268	281	320	NW
30-May-06	26	12	304	221	158	138	212	212	282	298	303	283	336	266	306	287	288	289	280	281	269	257	275	280	287	WNW
31-May-06	259	250	260	135	71	127	183	212	235	237	269	279	277	269	240	287	303	271	268	125	96	79	84	121	249	WSW
Hourly Avg	329	338	312	335	319	349	300	287	285	284	286	284	290	286	291	288	298	296	288	291	291	294	303	300		

PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2006 to June 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
	55.7	43.2	20.8	10.7	6.4	3.2	2.4

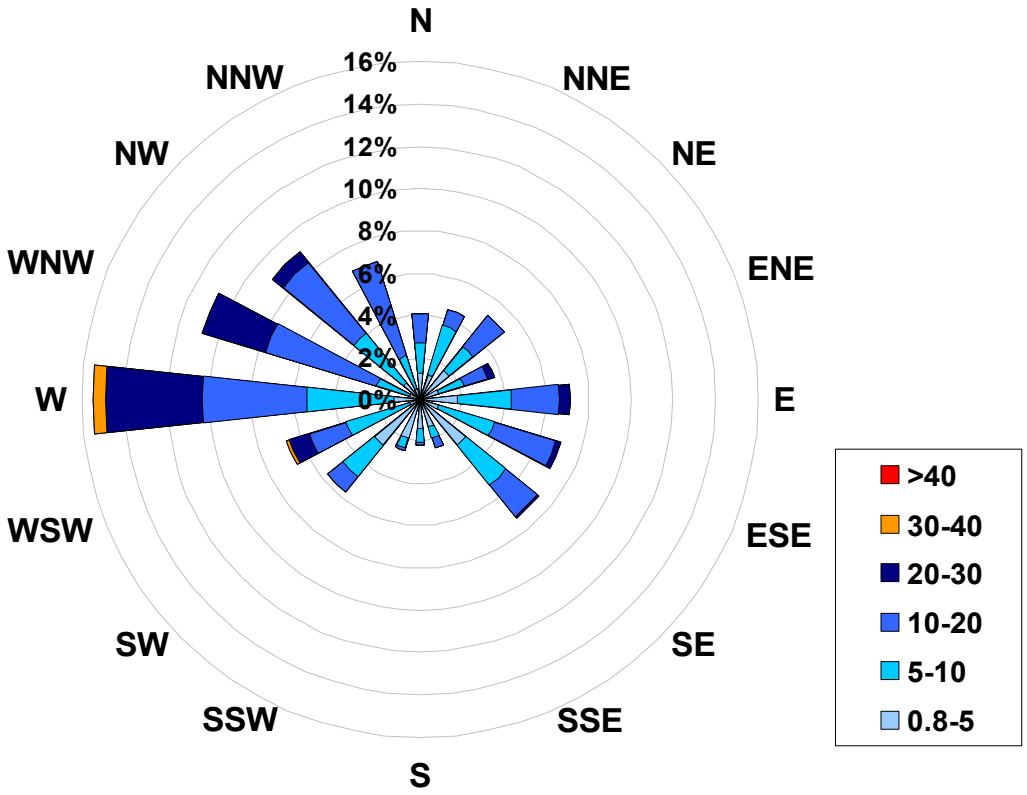
Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-06	5	13	7	11	31	9	3	5	9	11	13	34	31	19	24	22	12	9	6	4	4	3	4	5	34.2
2-May-06	6	6	8	5	4	5	5	6	6	7	7	9	9	12	13	9	11	19	15	8	2	9	6	16	18.9
3-May-06	51	12	37	19	27	17	8	15	20	25	40	19	21	43	24	30	21	11	8	4	2	2	2	2	50.9
4-May-06	2	13	16	30	14	31	24	15	16	13	9	9	14	11	10	13	8	9	6	2	3	16	27	56	56.2
5-May-06	26	29	14	57	16	21	10	7	22	6	7	5	6	8	7	7	6	6	7	4	5	5	10	3	56.9
6-May-06	4	3	2	4	13	21	19	4	6	7	7	8	10	10	9	6	7	6	4	4	4	3	24	19	23.8
7-May-06	21	8	6	30	40	39	36	43	8	8	7	7	9	7	9	12	17	17	12	3	3	8	3	5	43.2
8-May-06	4	3	4	4	4	4	3	6	6	10	8	4	5	6	8	10	9	8	8	8	3	3	3	3	10.3
9-May-06	3	3	3	3	4	16	9	6	7	10	14	18	16	29	30	37	23	21	10	9	16	5	9	14	37.1
10-May-06	18	29	14	7	18	13	21	34	15	16	35	25	35	38	36	19	17	15	12	27	4	7	5	8	38.3
11-May-06	27	23	36	21	30	28	25	7	14	11	11	19	20	25	36	26	13	16	11	12	4	9	5	7	36.1
12-May-06	7	12	5	6	18	10	5	5	3	4	4	4	5	5	5	8	6	6	4	4	2	2	8	9	17.7
13-May-06	3	32	9	27	23	16	24	10	10	13	9	14	39	21	28	36	19	16	13	5	24	7	9	43	42.7
14-May-06	33	24	37	38	47	15	20	15	21	38	55	44	50	50	58	39	34	15	9	11	27	69	14	13	69.3
15-May-06	13	45	16	46	9	39	34	54	51	31	38	37	47	42	51	47	36	21	16	5	5	4	2	3	54.3
16-May-06	4	14	12	14	53	55	34	22	34	52	30	55	17	18	34	30	39	52	18	10	12	22	11	11	55.0
17-May-06	13	15	47	36	58	30	43	9	5	7	6	9	8	6	9	6	7	5	6	4	3	11	5	8	58.1
18-May-06	10	3	5	7	6	5	28	15	15	11	12	21	27	26	29	19	28	17	20	10	3	3	3	3	29.0
19-May-06	4	3	3	5	4	3	9	5	14	7	7	12	13	13	15	14	5	6	8	8	9	27	7	9	26.6
20-May-06	7	6	5	4	5	4	3	4	4	7	9	9	14	6	5	6	8	6	5	6	8	10	12	16	16.2
21-May-06	7	5	6	9	9	7	12	7	7	7	6	8	11	10	7	9	5	5	3	4	6	8	10	21	20.8
22-May-06	22	19	22	33	13	16	47	22	38	22	33	25	16	17	13	14	11	8	6	5	4	6	13	6	47.0
23-May-06	6	3	5	10	27	9	16	23	17	9	8	8	12	15	11	15	13	10	11	9	11	7	15	10	27.4
24-May-06	11	22	15	22	19	18	14	11	35	29	43	35	60	32	20	9	34	9	7	7	13	15	21	7	59.6
25-May-06	26	11	6	24	9	16	12	7	7	9	7	12	12	13	11	11	9	7	7	8	7	5	6	9	25.5
26-May-06	7	4	4	8	7	7	10	7	7	6	8	6	8	6	7	8	7	8	14	10	7	43	16	5	43.2
27-May-06	7	14	24	38	39	49	49	52	15	29	36	36	7	17	39	58	28	24	14	9	4	4	12	7	58.3
28-May-06	8	6	4	23	13	11	7	12	26	30	41	38	16	27	26	7	14	26	12	6	11	9	10	15	40.9
29-May-06	29	16	5	5	4	4	4	5	8	8	11	16	17	17	13	10	16	21	7	8	34	46	8	11	46.0
30-May-06	24	62	27	27	15	13	11	22	16	8	8	19	15	23	13	11	7	10	6	4	3	5	2	18	61.5
31-May-06	23	6	5	46	43	30	29	18	16	13	22	30	17	12	32	45	45	36	37	26	5	4	6	17	46.0
Hourly Max	51	62	47	57	58	55	49	54	51	52	55	55	60	50	58	58	45	52	37	27	34	69	27	56	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	163
5	to	10	233
10	to	20	265
20	to	30	78
30	to	40	5
	>	40	0
Total Non-Zero Values			744

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for May 2006

Peace Airshed Zone Association - PASZA Passive Stations for May 2006

		PASZA			
Station Number	**Station Name**	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
1a	Silver Valley	**0.3**	**34.0**	**0.8**	
1b	Silver Valley	**0.3**	**36.4**	**0.8**	
2a	Bay Tree	**0.2**	**35.0**	**0.3**	
2b	Bay Tree	**0.2**	**39.1**	**0.3**	
5a	Boone Creek	**0.3**	**35.4**	**1.0**	
5b	Boone Creek	**0.3**	**35.6**	**1.0**	
49a	Grande Prairie HP	**0.2**	**39.3**	**4.1**	
49b	Grande Prairie HP	**0.2**	**37.8**	**4.0**	
1	Silver Valley	**0.3**	**35.2**	**0.8**	08-27-081-11 W6M
2	Bay Tree	**0.2**	**37.1**	**0.3**	13-16-078-13 W6M
3	Forth Creek	**0.3**	**38.4**	**0.5**	04-13-082-07 W6M
4	Gordondale	**0.2**	**37.2**	**0.6**	04-34-078-10 W6M
5	Boone Creek	**0.3**	**35.5**	**1.0**	01-23-076-11 W6M
7	Steeprock Creek	**0.2**	**38.3**	**0.7**	09-35-072-13 W6M
9	Spirit River	**0.3**	**35.7**	**1.4**	08-12-079-07 W6M
10	Woking	**0.4**	**34.5**	**0.6**	01-13-076-07 W6M
11	Webber Creek	**0.3**	**35.4**	**1.1**	09-36-074-09 W6M
12	Hythe	**0.3**	**40.0**	**1.0**	14-36-072-11 W6M
14	Sylvester	**0.2**	**32.5**	**0.4**	08-06-069-12 W6M
16	Beaverlodge	**0.3**	**41.3**	**1.3**	15-36-071-10 W6M
17	Poplar	**0.2**	**35.5**	**1.1**	13-06-073-08 W6M
18	Saddle Hills	**0.3**	**38.9**	**0.8**	04-25-074-07 W6M
19	Wanham	**0.3**	**40.6**	**1.4**	16-22-077-03 W6M
20	Shaftesbury	**0.2**	**29.5**	**0.5**	04-03-082-23 W5M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
21	Eaglesham	**0.2**	**31.6**	**1.3**	16-21-079-25 W5M
23	Bear Lake	**0.3**	**34.5**	**1.7**	15-31-072-06 W6M
24	Wembley	**0.2**	**33.3**	**1.4**	12-31-070-08 W6M
25	Pinto Creek	**0.2**	**36.0**	**0.5**	04-24-069-11 W6M
26	Flyingshot	**0.2**	**35.8**	**1.0**	15-36-070-07 W6M
27	Grande Prairie I	**0.2**	**37.8**	**3.7**	08-15-071-06 W6M
28	Clairmont Lake	**0.3**	**36.9**	**1.1**	09-06-073-04 W6M
29	Smoky Heights	**0.3**	**37.4**	**0.8**	04-06-075-02 W6M
30	Fitzsimmons	**0.2**	**35.3**	**0.9**	15-36-072-03 W6M
32	Gold Creek	**0.5**	**31.1**	**1.8**	06-33-067-05 W6M
33	Wapiti	**0.2**	**36.7**	**1.1**	02-25-071-03 W6M
34	Puskwaskau	**0.2**	**29.4**	**0.2**	15-35-074-25 W5M
35	Jean Cote	**0.2**	**31.7**	**1.4**	12-35-079-21 W5M
36	Guy	**0.2**	**34.5**	**1.5**	03-04-076-22 W5M
37	Crooked Creek	**0.2**	**38.8**	**1.2**	16-01-071-26 W5M
38	Karr Creek	**0.2**	**30.4**	**0.3**	10-16-065-02 W6M
39	Clouston Creek	**0.2**	**35.6**	**0.4**	12-01-073-22 W5M
40	McLennan	**0.2**	**32.8**	**1.9**	03-29-077-19 W5M
41	Valleyview	**0.2**	**43.6**	**0.3**	09-30-069-22 W5M
42	Sunset House	**0.2**	**41.4**	**0.2**	05-32-070-19 W5M
43	High Prairie	**0.2**	**33.7**	**1.1**	16-13-074-17 W5M
44	Peavine	**0.1**	**31.7**	**0.1**	03-05-079-15 W5M
45	Gift Lake	**0.1**	**30.8**	**0.4**	10-07-079-12 W5M
46	Little Smoky	**0.2**	**30.9**	**1.5**	12-01-065-21 W5M
47	Kinuso	**0.2**	**29.4**	**0.1**	12-10-073-10 W5M
48	Deer Mountain	**0.2**	**30.6**	**0.2**	15-22-068-09 W5M
49	Grande Prairie HP	**0.2**	**38.6**	**4.1**	17-26-071-06 W6M

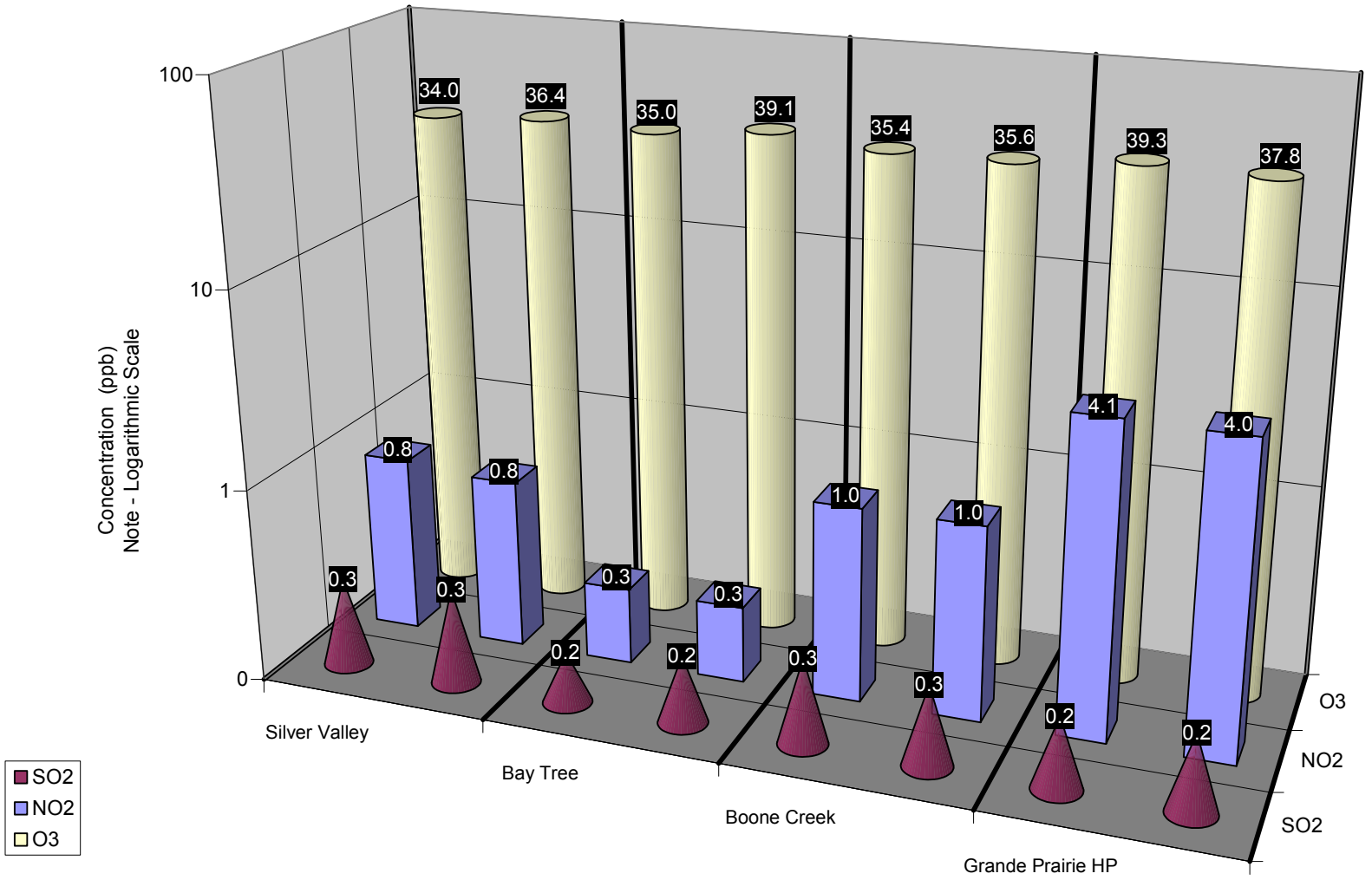


Figure 46. Duplicate Summary Chart

Table 2. Passive Summary Results for May 2006

Stats	Sulphur Dioxide SO_2	Ozone O_3	Nitrogen Dioxide NO_2
	ppb	ppb	ppb
	Passive Summary for May 2006 (PASZA Zone)		
Mean	**0.2**	**35.2**	**1.0**
Standard Deviation	**0.1**	**3.6**	**0.8**
Minimum	**0.1** **Peavine (#44)**	**29.4** **Puskwaskau (#34)**	**0.1** **Peavine (#44)**
Maximum	**0.5** **Gold Creek (#32)**	**43.6** **Valleyview (#41)**	**4.1** **Grande Prairie HP (#49)**

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

	SO_2	O_3	NO_2
AENV Beaverlodge station	**0.4**	**38.8**	**1.9**
PASZA Beaverlodge passive	**0.3**	**41.3**	**1.3**

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

	SO_2	O_3	NO_2
PASZA Henry Pirker station	**0.2**	**32.1**	**5.5**
PASZA Grande Prairie passive	**0.2**	**38.6**	**4.1**

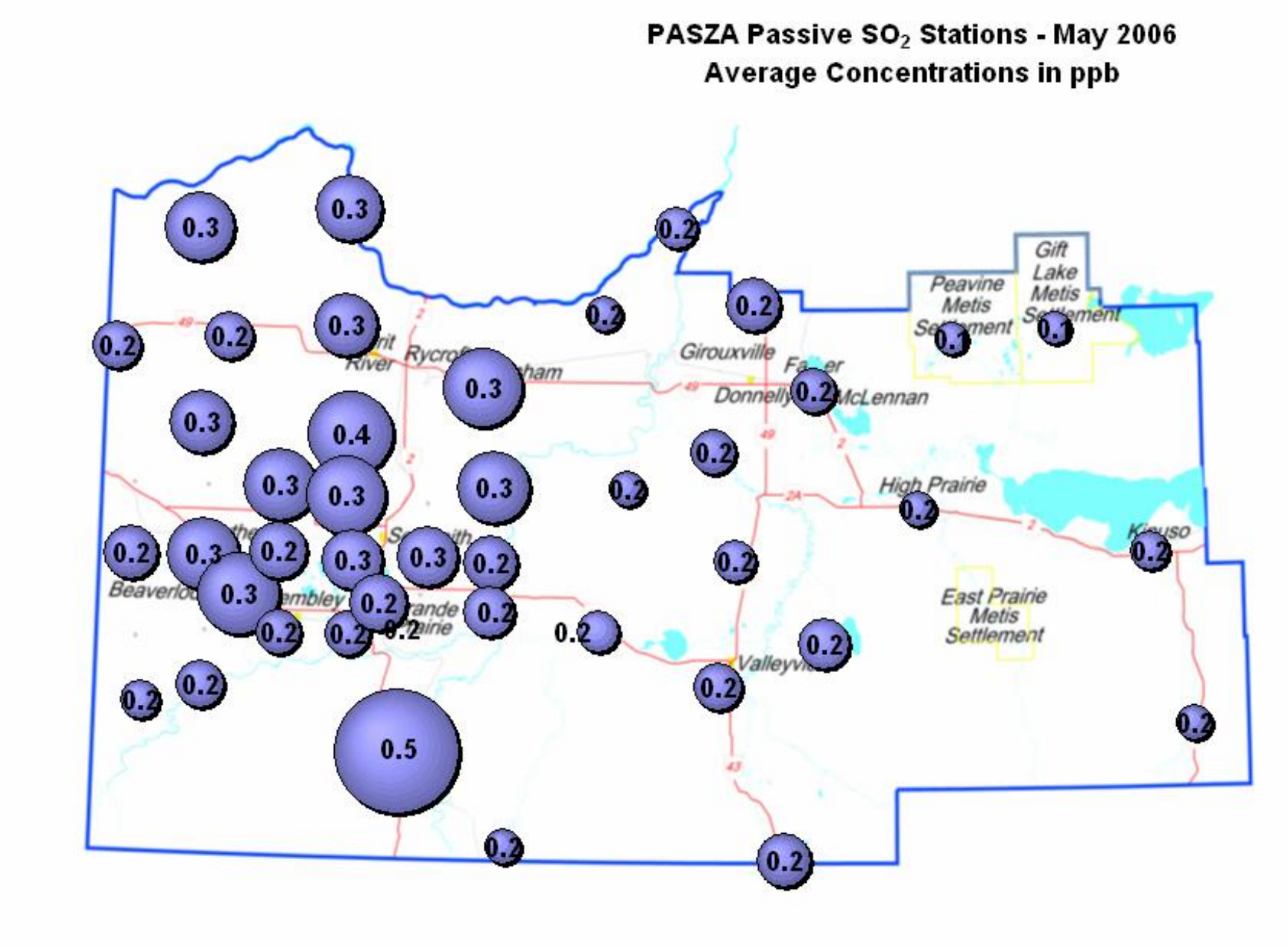


Figure 47. SO_2 Bubble Chart

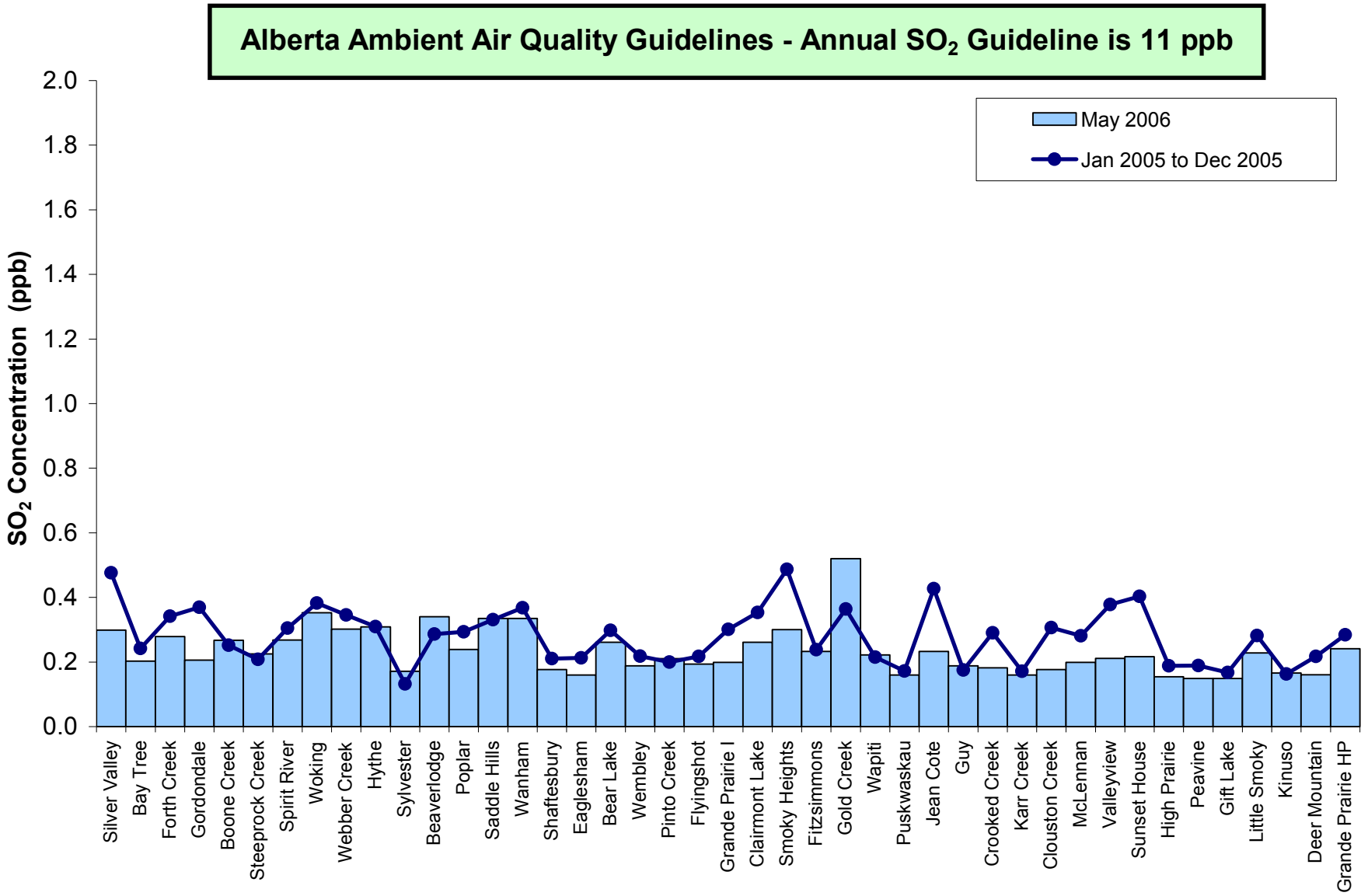


Figure 48. SO_2 Summary Chart

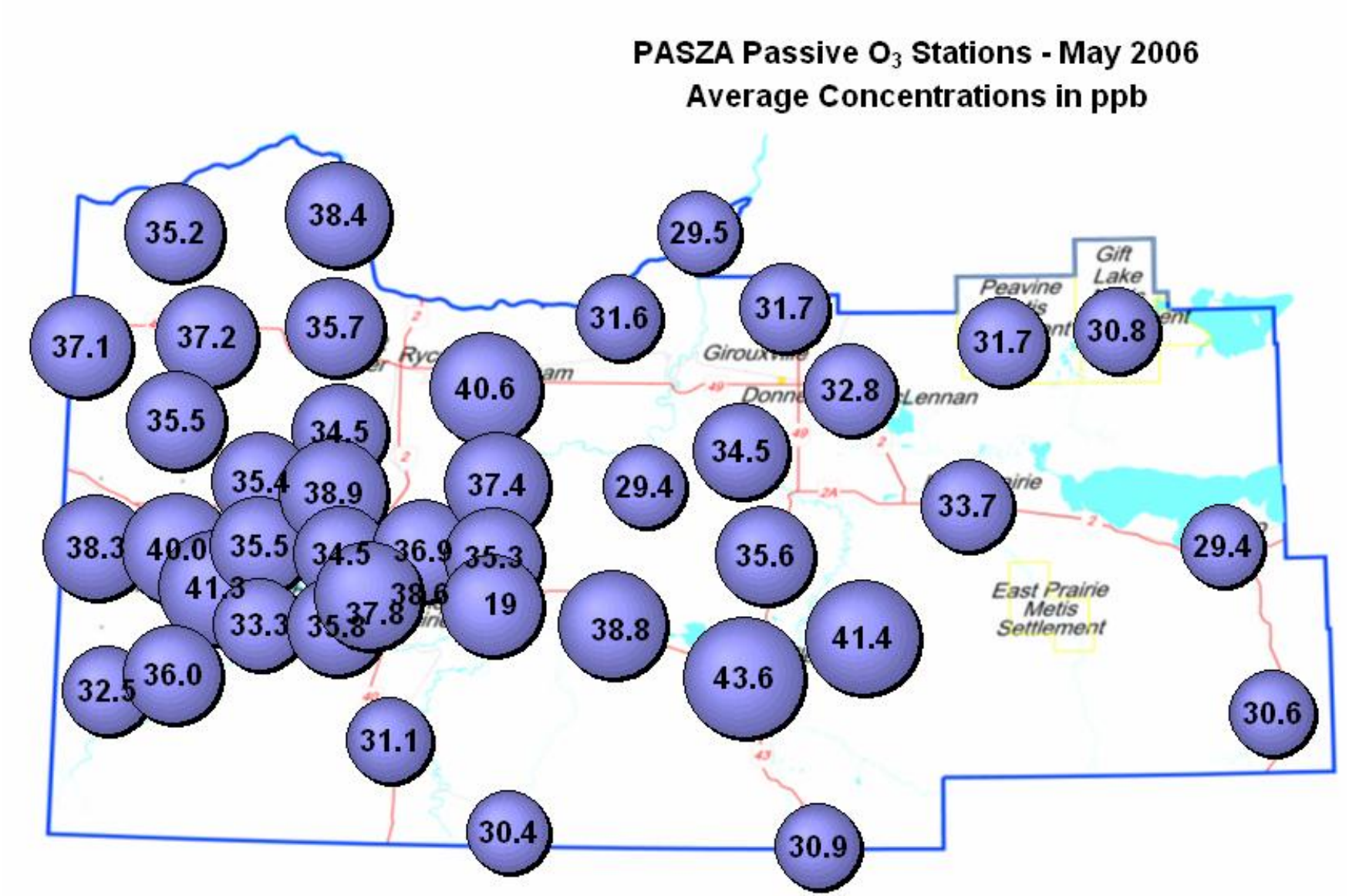


Figure 49. O_3 Bubble Chart

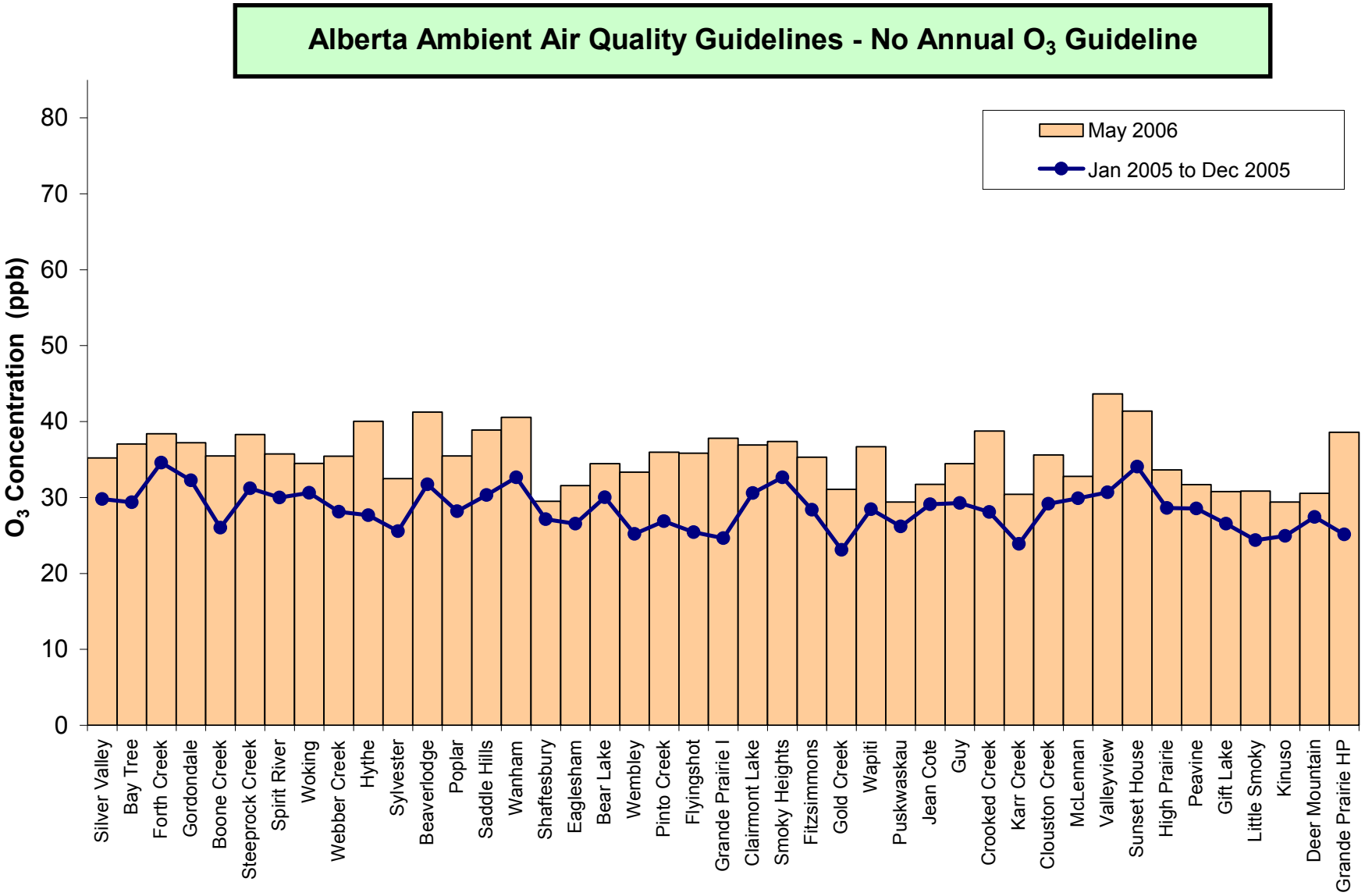


Figure 50. O_3 Summary Chart

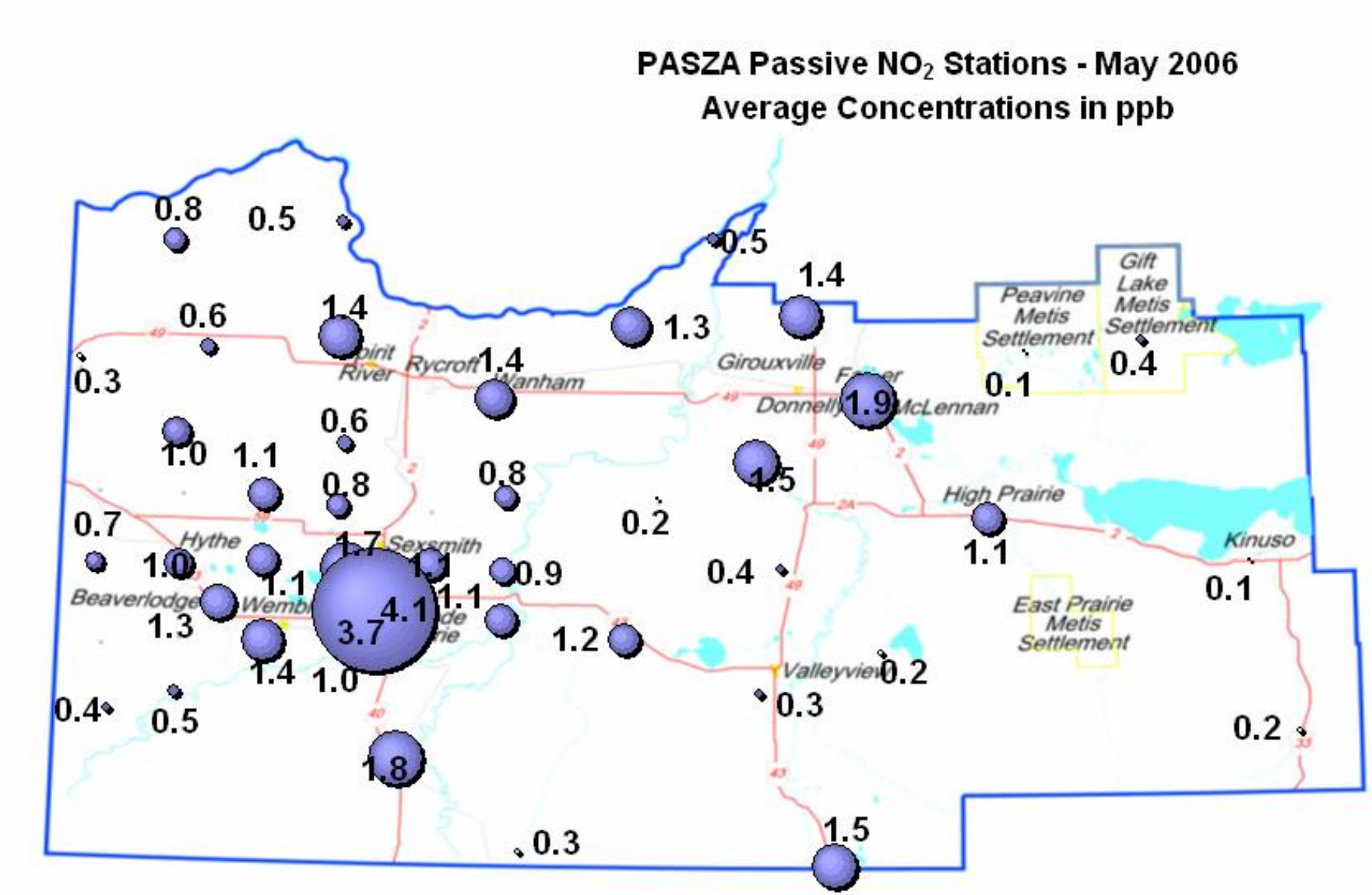


Figure 51. NO_2 Bubble Chart

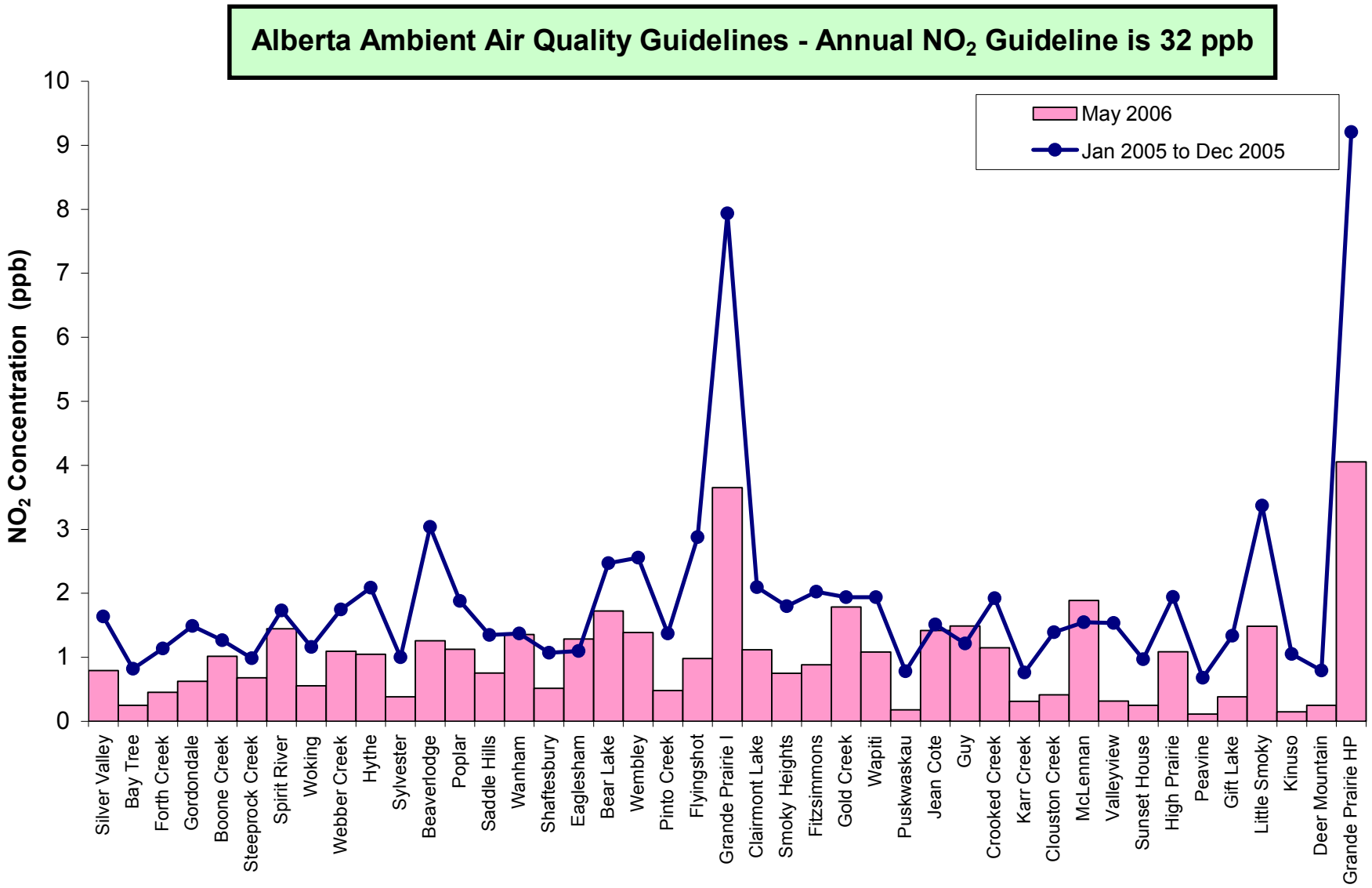


Figure 52. NO_2 Summary Chart

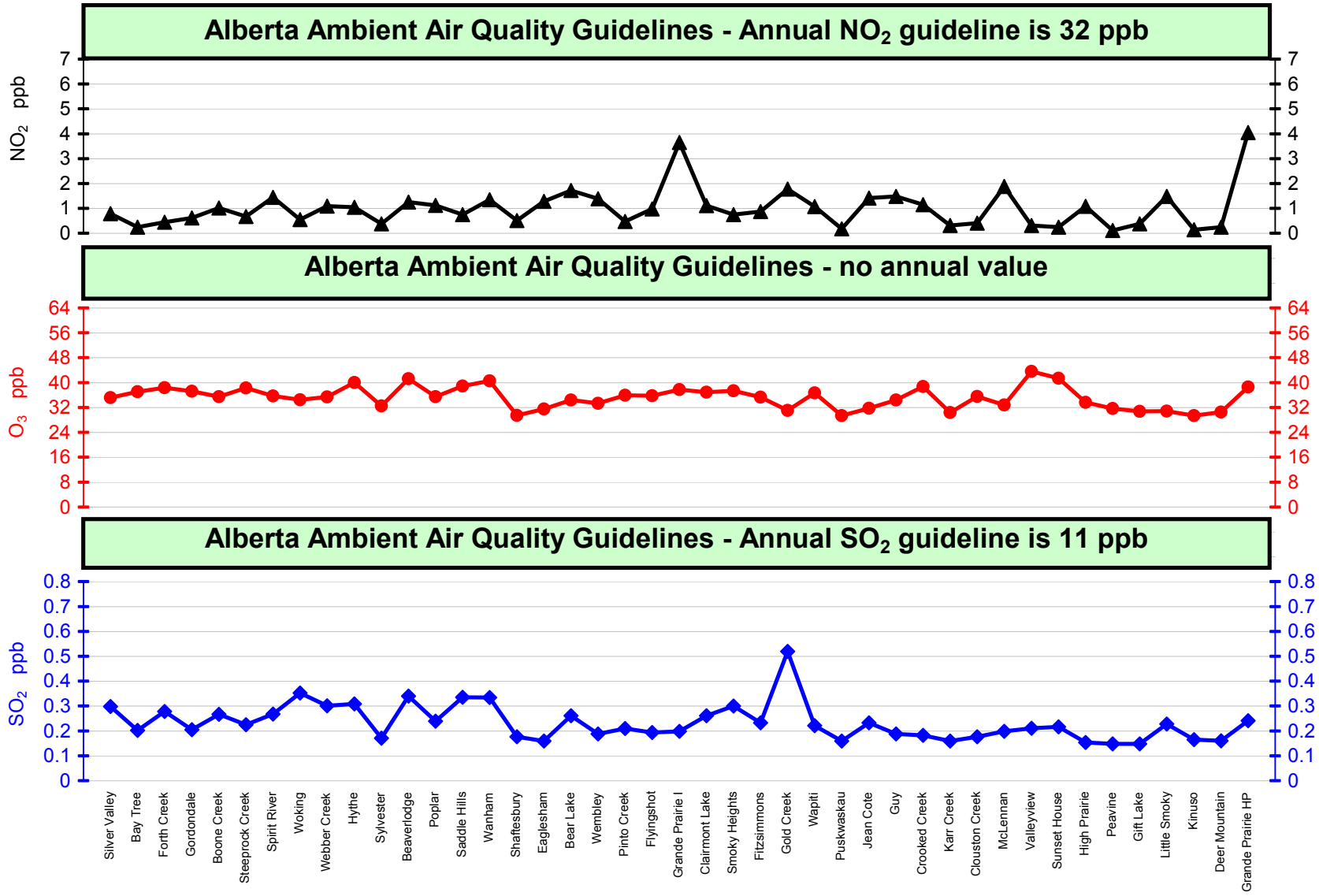


Figure 53. Overview Summary

May 2006 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO_2, NO, NO_2, NO_x, O_3, CO, THC, TRS, $PM_{2.5}$

PASZA – Evergreen Park Station with the following calibrations:

SO_2, TRS, $PM_{2.5}$

PASZA – Smoky Heights Station with the following calibrations:

SO_2, TRS, $PM_{2.5}$

PASZA – Beaverlodge Station with the following calibrations:

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

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	11:20	End Time (MST)	16:05
Barometric Pressure	28.0 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	0.950439	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.995944	Calculated slope	1.006944
Calculated intercept	-0.139673	Calculated intercept	0.149606

Analyzer make: TEI Model 43A — Analyzer serial #: 43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	167		167	
SO2 span pot	252		356	
UV Lamp voltage	948	V	948	V
Vacuum	17.2	" Hg	17.5	" Hg
Sample Flow	420	ccm	425	ccm

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2376.1	0.0	0.2	N/A
2500	2376.1	336.9	334.6	1.0069
5000	4752.2	168.4	167.0	1.0086
9000	8554.0	93.6	92.4	1.0127
zero	2376.1	0.0	0.1	As Found Zero
2500	2376.1	336.9	306.2	As Found Span
			Average Correction Factor	1.0094

Calculated value of As Found Response: 304.723 ppm Percent Change of As Found: 9.5%

	before calibration		after calibration	
Auto zero	-0.1	ppm	0.2	ppm
Auto span	240.5	ppm	207.2	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

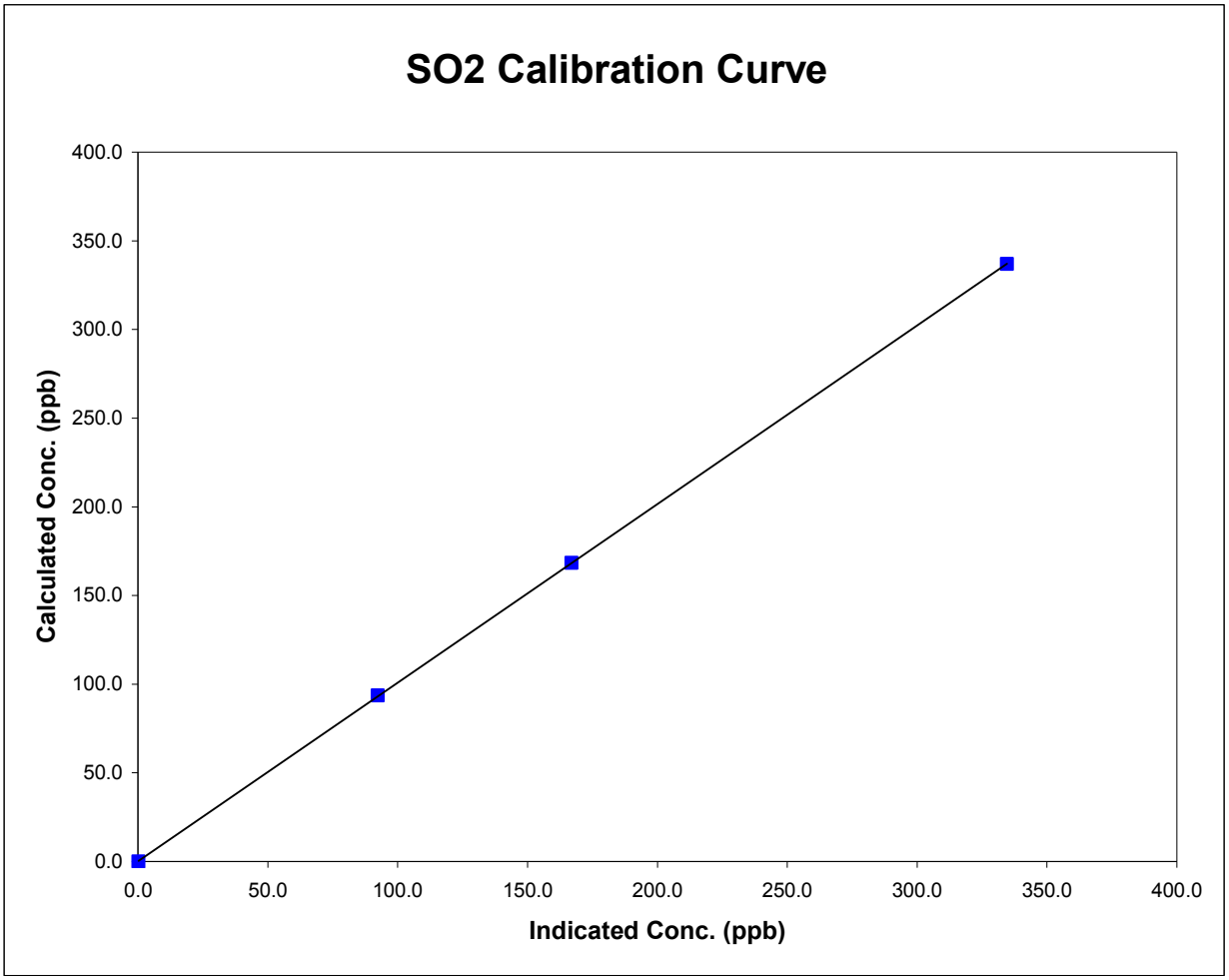
Air Monitoring Network **PASZA**

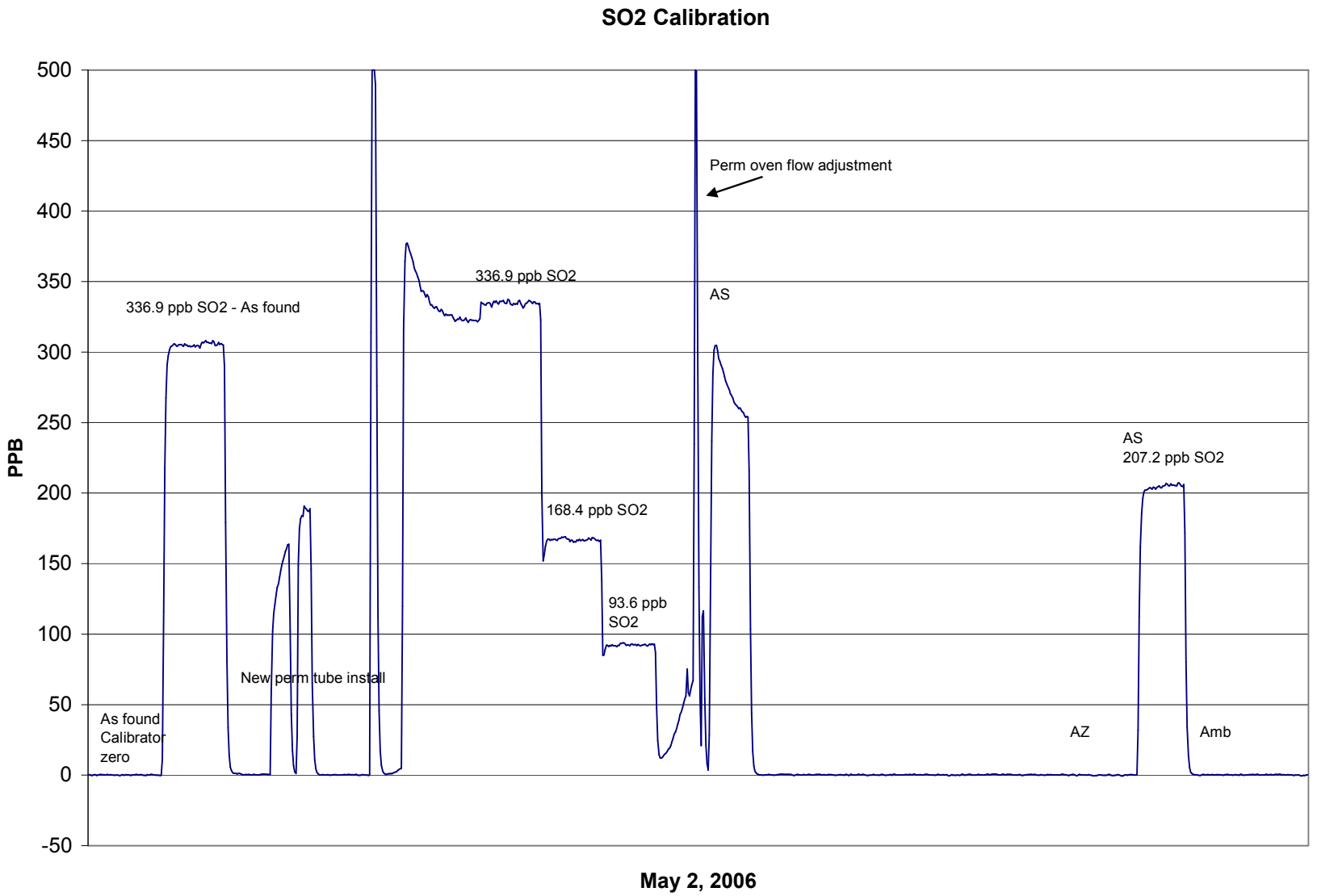
Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	16:05
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	0.2	N/A		
336.9	334.6	1.0069	Correlation Coefficient	0.999995
168.4	167.0	1.0086		
93.6	92.4	1.0127	Slope	1.006944
			Intercept	0.149606




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
336.9 ppb SO2 - As found
336.9 ppb SO2
Perm oven flow adjustment
AS
AS
207.2 ppb SO2
168.4 ppb SO2
93.6 ppb
SO2
New perm tube install
As found
Calibrator
zero
AZ
Amb
May 2, 2006

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 11, 2006	Previous Calibration	April 13, 2006
Station Number	1	Station Location	Muskoseepi Park

Reason: **Routine** Installation Removal Other:

Start Time (MST)	9:38		End Time (MST)	16:30	
Barometric Pressure	0.924	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6103		Serial Number	2977	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	22-Nov-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.004199	0.997680	0.996419
	Data Offset	-1.413853	-2.034960	-1.630104
After	Data Slope	0.995754	0.997146	0.996594
	Data Offset	0.053842	-1.126199	-1.113969
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	8.8	ppb	9.1	mV
NOx background	9.1	ppb	9.4	mV
NO coefficient	0.913		0.939	
NOx coefficient	0.976		0.987	
Chamber Temp	50.1	Deg C	50.0	Deg C
Cooler Temp	-2.5	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	207.5	mm Hg	213.8	mm Hg

Notes:

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date: May 11, 2006 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A
1	4992	39.93	400.7	399.1	1.6	401.9	400.5	1.4	0.9971	0.9966
2	4992	19.91	200.6	199.8	0.8	204.4	203.8	0.7	0.9814	0.9804
3	4992	10.00	101.0	100.6	0.4	102.5	102.1	0.5	0.9848	0.9853
AFZ	4992	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000
AFS	4992	39.93	400.7	399.1	1.6	391.4	396.0	-4.5	1.0238	1.0080
							Average Correction Factor		0.9878	0.9874

As Found Concentrations: NO_X= 389.4 NO= 394.3 As Found Percent Change NO_X= -2.8% NO= -1.2%

GPT Calibration Data

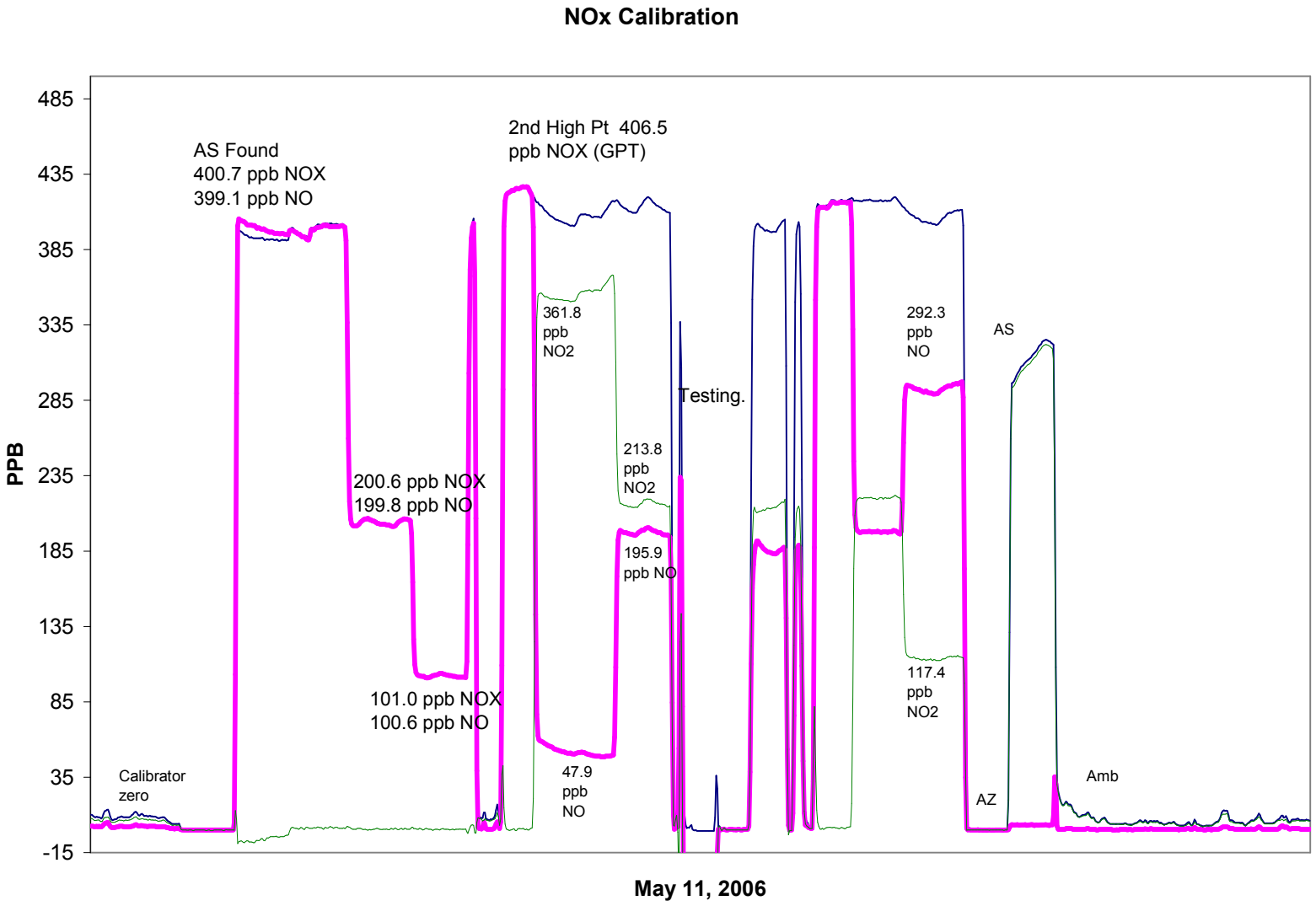
Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	409.7	422.4	-12.7	425.6	425.0	0.5	0.9627	0.9940	N/A	N/A
350	409.7	47.9	361.8	409.6	49.2	360.8	1.0001	0.9739	1.0027	99.7%
200	409.7	195.9	213.8	417.7	197.7	220.4	0.9808	0.9910	0.9701	103.1%
100	409.7	292.3	117.4	408.7	294.4	114.5	1.0026	0.9928	1.0248	97.6%
					Average Correction Factor		0.9945	0.9859	0.9992	100.1%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.0	0.9	1.0	ppb	1.0	1.0	1.1	ppb
Auto span	316.2	317.0	0.4	ppb	318.3	315.8	2.3	ppb

Calibration Performed By: Dawn Ewan


NOx Calibration
PPB
485
435
385
335
285
235
185
135
85
35
-15
AS Found
400.7 ppb NOX
399.1 ppb NO
2nd High Pt 406.5
ppb NOX (GPT)
361.8
ppb
NO2
213.8
ppb
NO2
195.9
ppb NO
Testing.
292.3
ppb
NO
AS
200.6 ppb NOX
199.8 ppb NO
101.0 ppb NOX
100.6 ppb NO
117.4
ppb
NO2
Calibrator
zero
47.9
ppb
NO
AZ
Amb
May 11, 2006

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **PASZA**

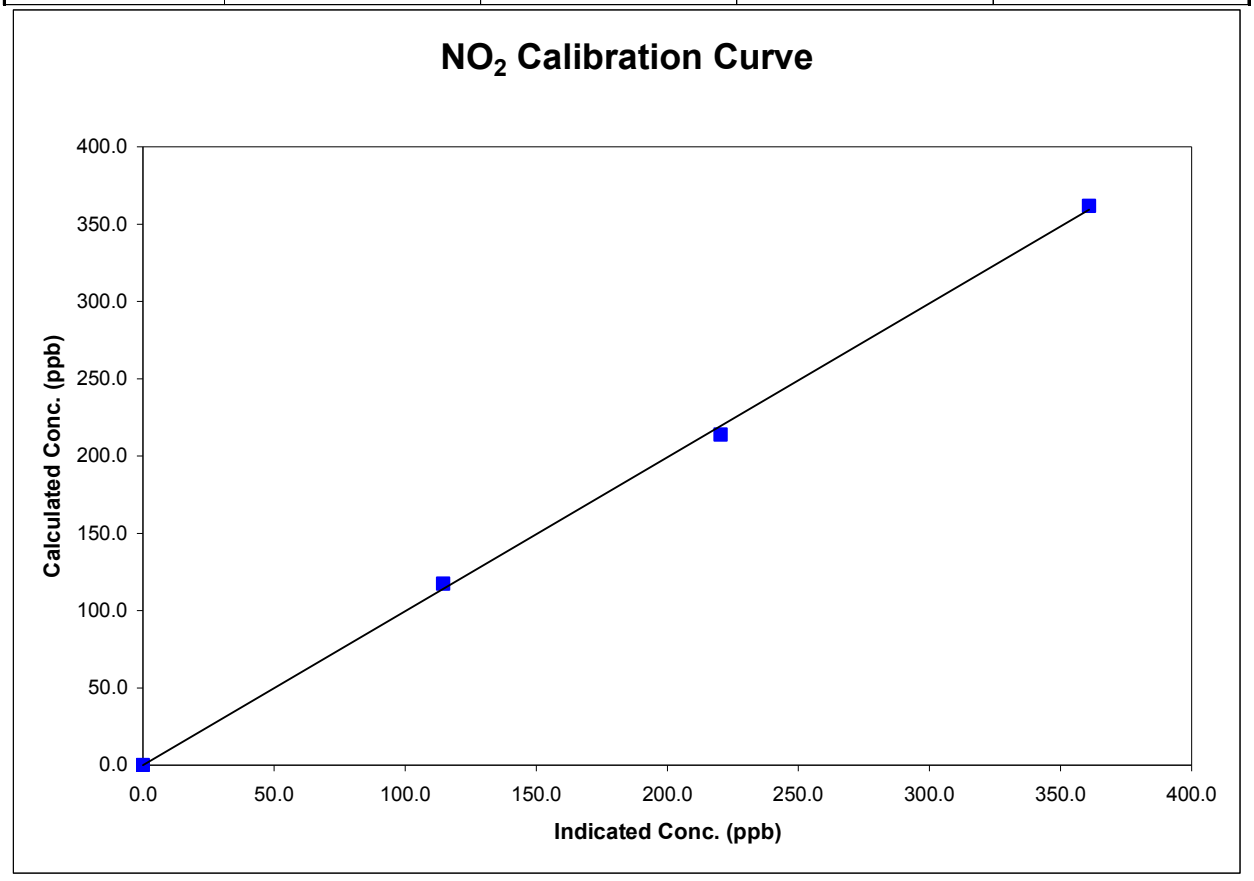
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 11, 2006	Previous Calibration	April 13, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:38	End Time (MST)	16:30
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		
361.8	360.8	1.0027	Correlation Coefficient	0.999298
213.8	220.4	0.9701		
117.4	114.5	1.0248	Slope	0.995754
			Intercept	0.053842



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

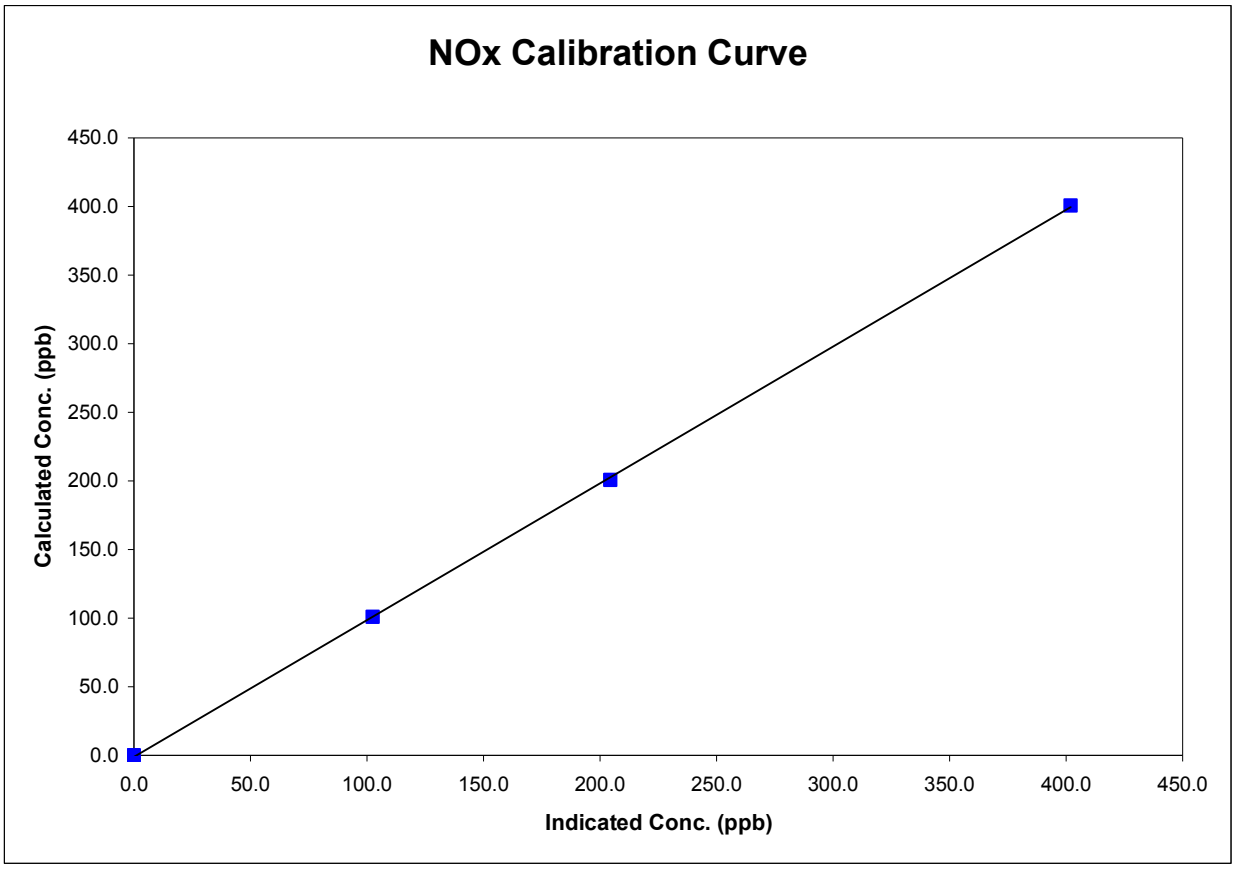
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 11, 2006	Previous Calibration	April 13, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:38	End Time (MST)	16:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
400.7	401.9	0.9971	Correlation Coefficient	0.999922
200.6	204.4	0.9814		
101.0	102.5	0.9848	Slope	0.997146
			Intercept	-1.126199



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**

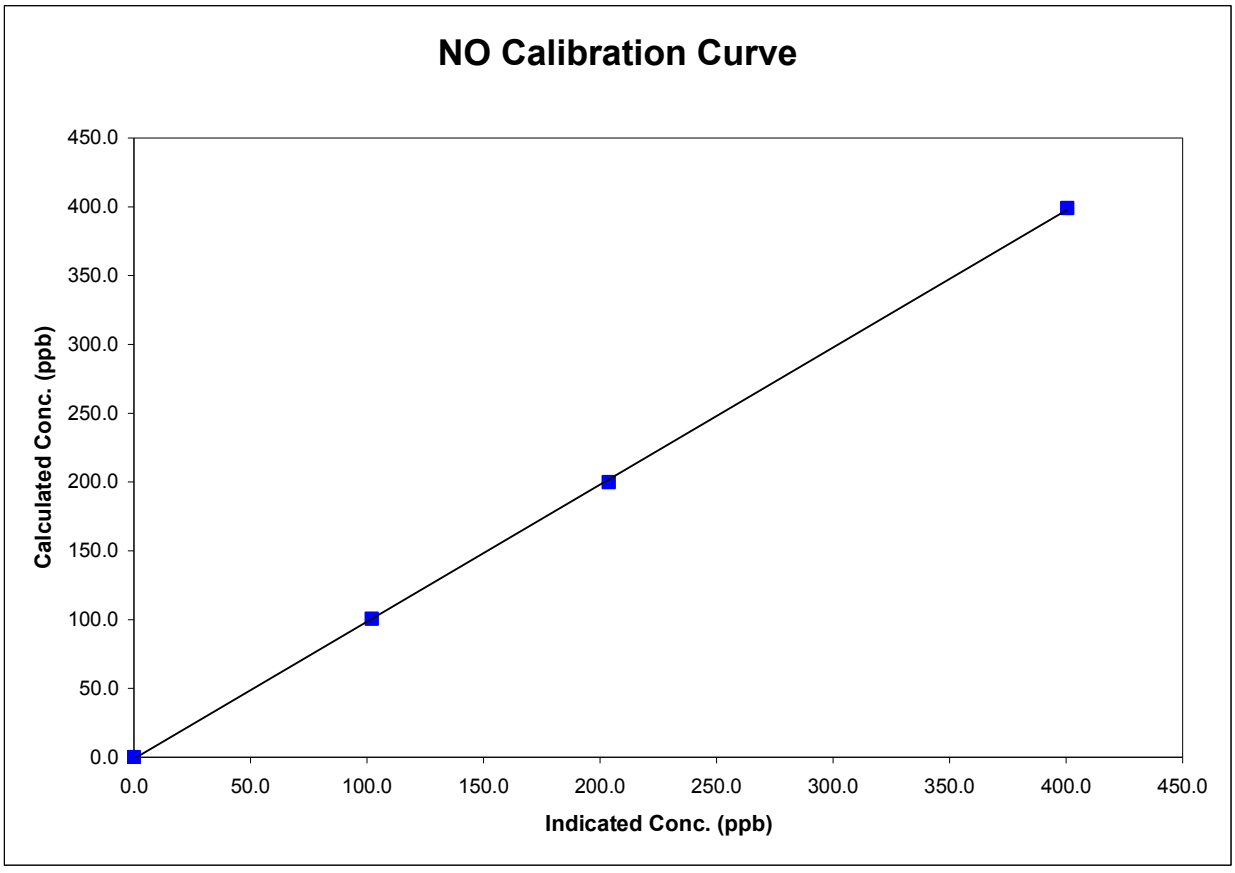
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 11, 2006	Previous Calibration	April 13, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:38	End Time (MST)	16:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
399.1	400.5	0.9966	Correlation Coefficient	0.999917
199.8	203.8	0.9804		
100.6	102.1	0.9853	Slope	0.996594
			Intercept	-1.113969



Calibration Report

Parameter **O3**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 15, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:35	End Time (MST)	14:22
Barometric Pressure	0.935 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.998106	Calculated slope	0.988367
Calculated intercept	-2.232910	Calculated intercept	3.268527
Analyzer make	API Model 400	Analyzer serial #	383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.7	ppb	-0.7	ppb
slope	1.065		1.065	
Lamp measure	4004	mV	4004	mV
Lamp Reference	4006	mV	4006	mV
Pressure	27.5	inches Hg	27.5	inches Hg
Sample Flow	696	ccm	696	ccm
ANA Lamp temp	52	Deg C	52	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	0.5	N/A
4992	0.00	361.8	364.8	0.9919
4992	0.00	213.8	212.1	1.0082
4992	0.00	117.4	110.6	1.0613
4992	0.00	0.0	1.0	As found zero
4992	0.00	361.8	350.2	As found span
			Average Correction Factor	1.0204

Calculated value of As Found Response: 346.3 ppm Percent Change of As Found: -4.3%

	before calibration		after calibration	
Auto zero	-3.5	ppb	4.2	ppb
Auto span	220.1	ppb	222.9	ppb

Notes: Adjusted zero and span.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **O3**

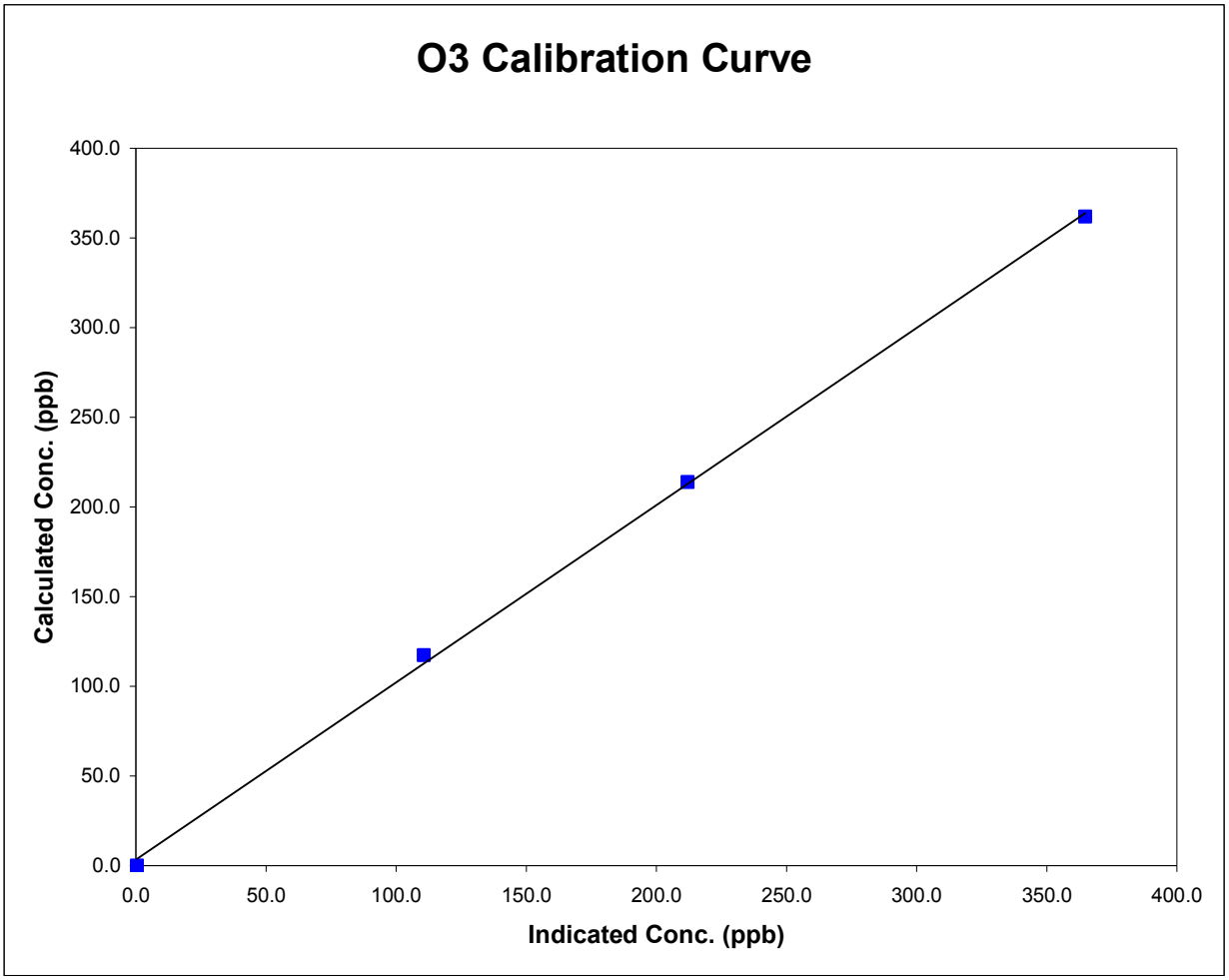
Air Monitoring Network **PASZA**

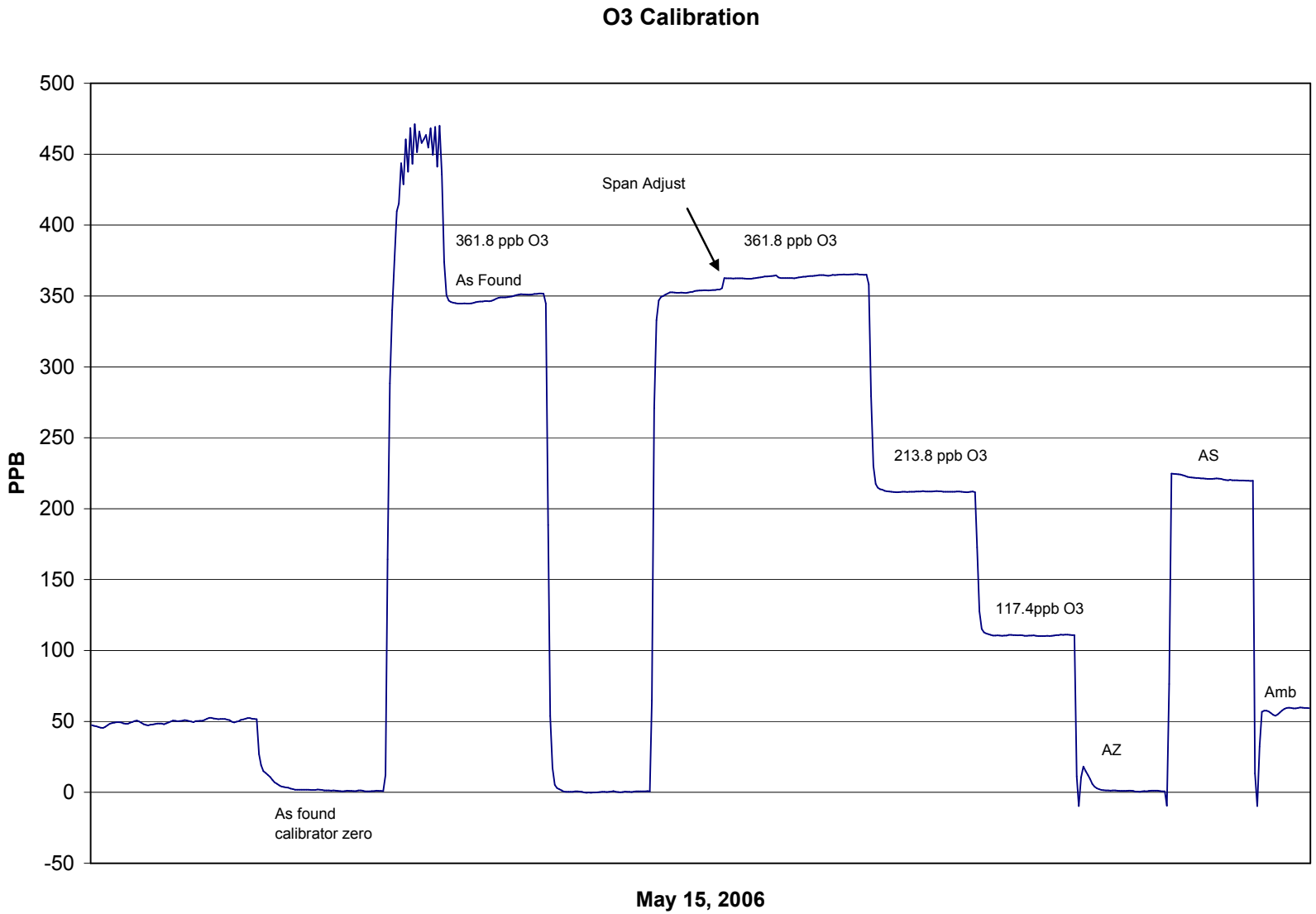
Station Information

Calibration Date	May 15, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:35	End Time (MST)	14:22
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	NA		
361.8	364.8	0.9919	Correlation Coefficient	0.999405
213.8	212.1	1.0082		
117.4	110.6	1.0613	Slope	0.988367
			Intercept	3.268527




O3 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
361.8 ppb O3
As Found
Span Adjust
361.8 ppb O3
213.8 ppb O3
117.4ppb O3
AZ
AS
Amb
As found
calibrator zero
May 15, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **CO**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine: ☒	Install: ☐	Removal: ☐	Other: ☐
Start Time (MST)	8:48	End Time (MST)	13:00
Barometric Pressure	0.935 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.001682	Calculated slope	1.007669
Calculated intercept	-0.022686	Calculated intercept	-0.056727
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.042		1.042	
CO zero setting	5.398		5.687	
Sample pressure	682.6	mm Hg	690.4	mm Hg
Sample Flow	1.079	LPM	1.075	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4994	0.00	0.00	0.02	N/A
4994	39.94	23.80	23.70	1.0042
4994	19.91	11.91	11.76	1.0128
4994	9.50	5.70	5.84	0.9759
4994	0.00	0.00	0.25	As Found Zero
4994	39.94	23.80	24.34	As Found Span
			Average Correction Factor	0.9976

Calculated value of As Found Response: 24.105 ppm Percent Change of As Found: -1.3%

	before calibration		after calibration	
Auto zero	-0.12	ppm	-0.08	ppm
Auto span	20.51	ppm	20.73	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **CO**

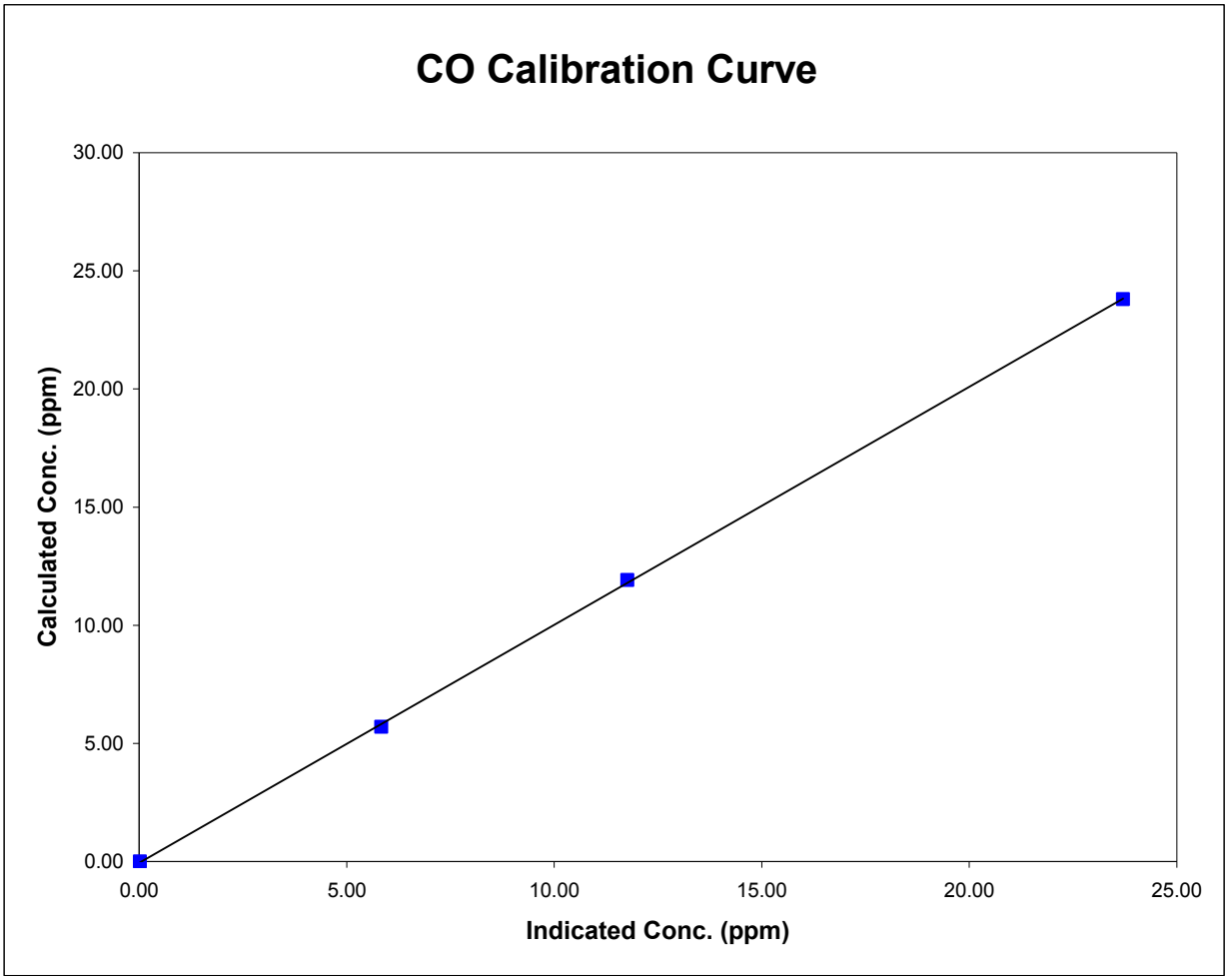
Air Monitoring Network **PASZA**

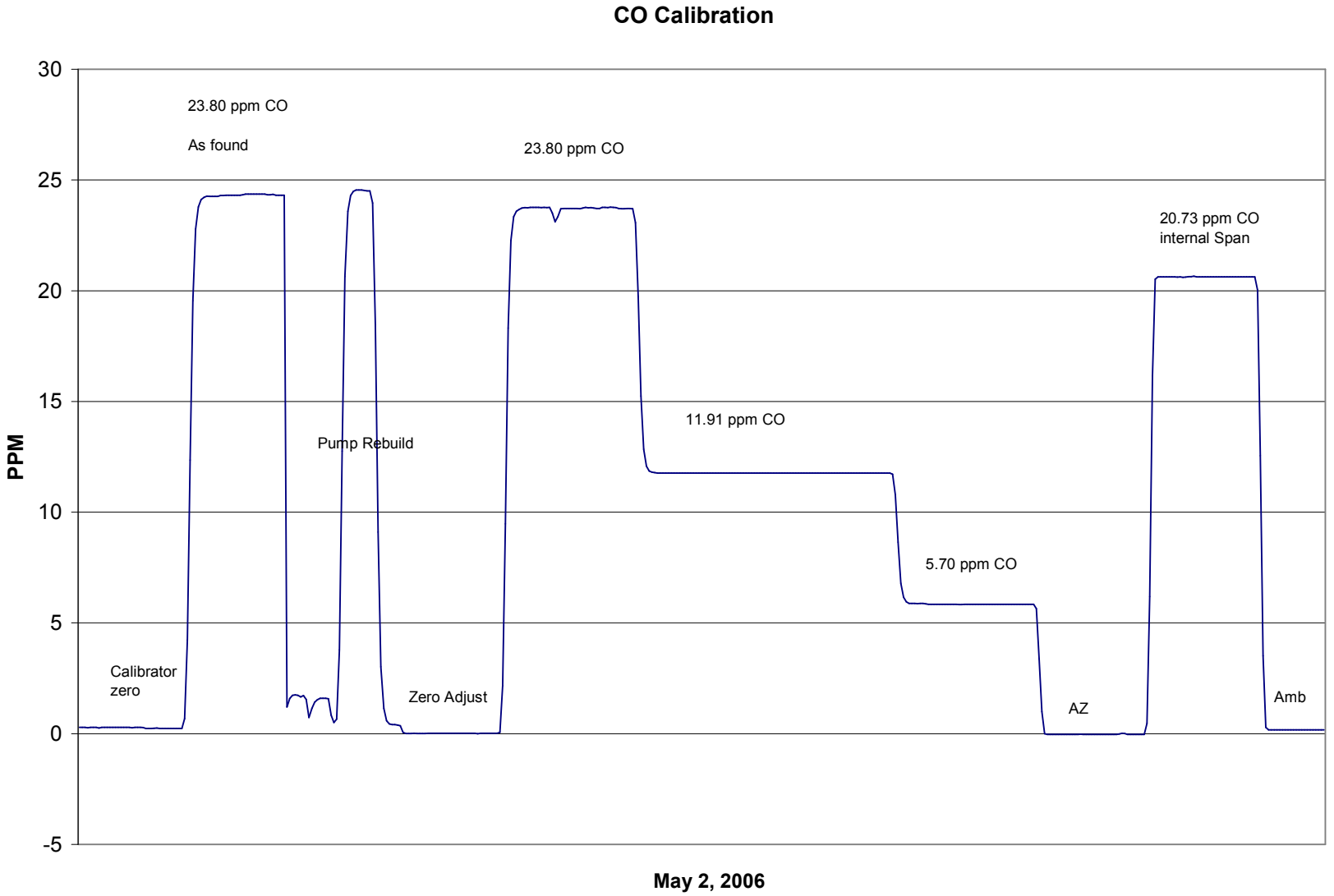
Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:48	End Time (MST)	13:00
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.018	N/A		
23.802	23.704	1.0042	Correlation Coefficient	0.999896
11.913	11.762	1.0128		
5.696	5.837	0.9759	Slope	1.007669
			Intercept	-0.056727




CO Calibration
30
25
20
15
10
5
0
-5
PPM
23.80 ppm CO
As found
23.80 ppm CO
20.73 ppm CO
internal Span
11.91 ppm CO
Pump Rebuild
5.70 ppm CO
Calibrator
zero
Zero Adjust
AZ
Amb
May 2, 2006

Calibration Report

Parameter **THC**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 23, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	9:05	End Time (MST)	15:45
Barometric Pressure	0.921 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.009974	Calculated slope	0.998682
Calculated intercept	-0.136352	Calculated intercept	0.040493

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	6943	capture	6943	capture
THC zero counts	1336	capture	1336	capture

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	-0.02	N/A
4992	64.92	19.54	19.53	1.0005
4992	34.95	10.58	10.55	1.0031
4992	9.92	3.02	2.97	1.0174
4992	0.00	0.00	-0.03	As Found Zero
4992	64.92	19.54	19.56	As Found Span
			Average Correction Factor	1.0070

Calculated value of As Found Response: 19.646 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	-0.02	ppm	0.03	ppm
Auto span	22.33	ppm	19.94	ppm

Notes: Repuilt internal pump.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **THC**

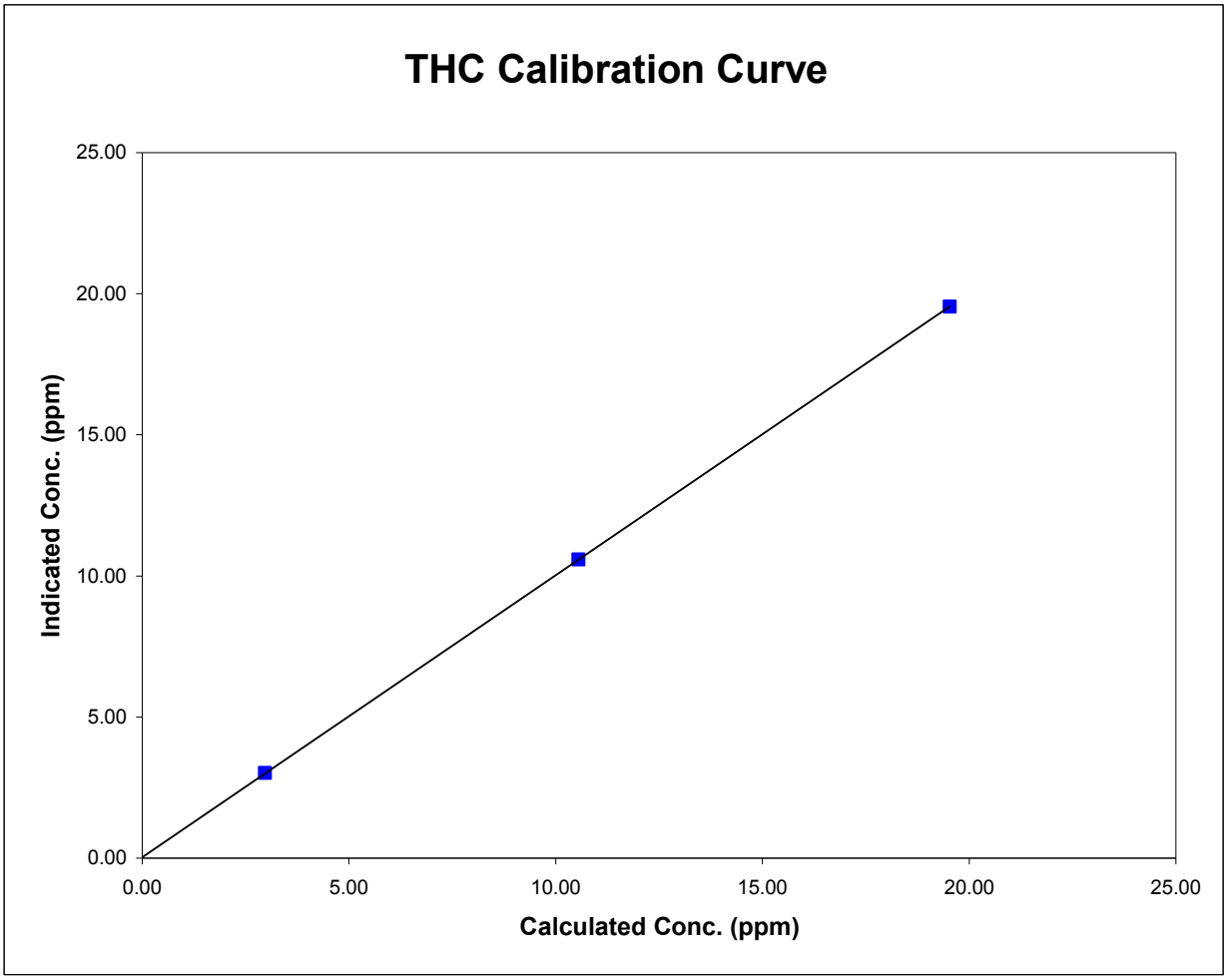
Air Monitoring Network **PASZA**

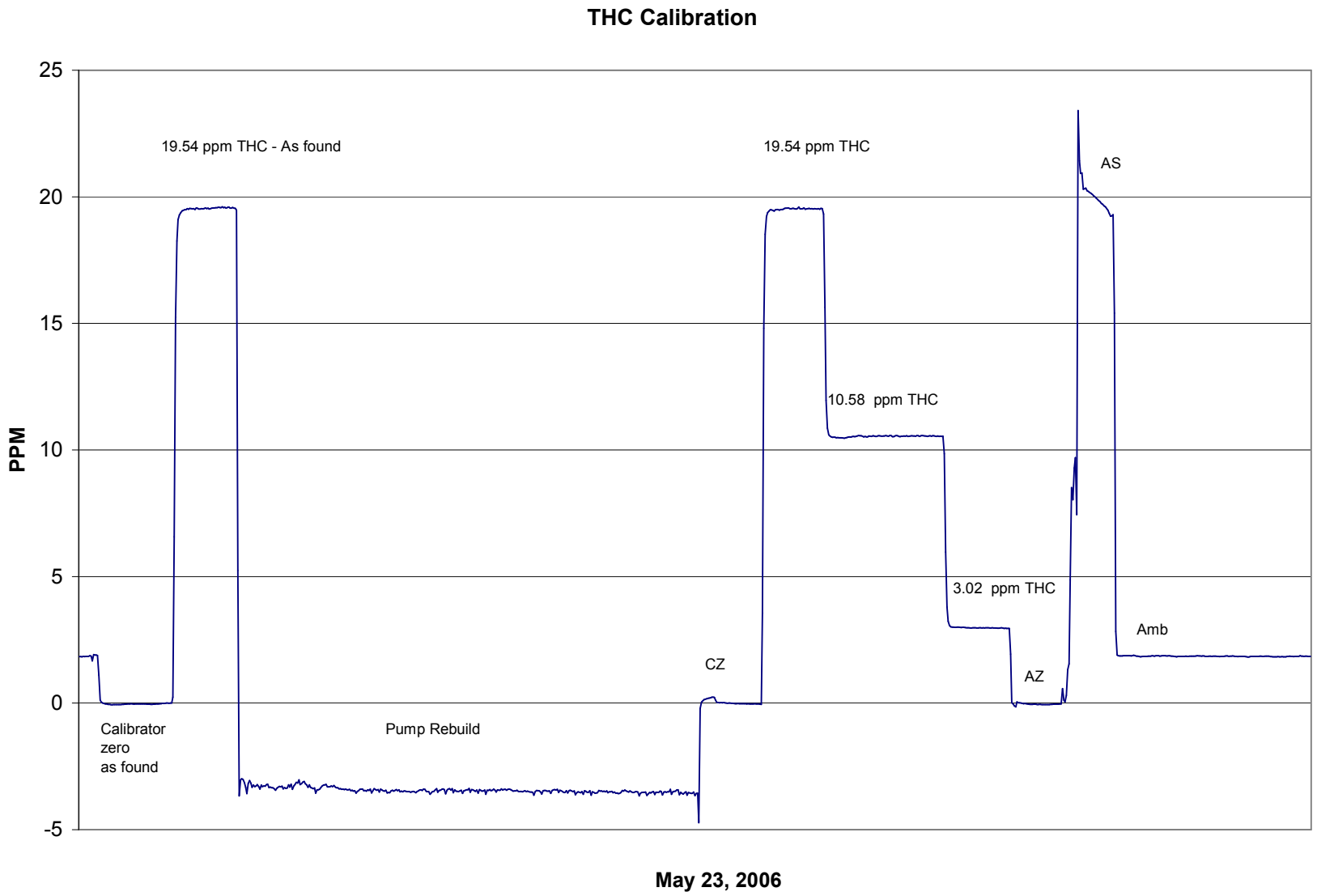
Station Information

Calibration Date	May 23, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:05	End Time (MST)	15:45
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	-0.025	N/A		
19.542	19.532	1.0005	Correlation Coefficient	0.999998
10.583	10.551	1.0031		
3.019	2.967	1.0174	Slope	0.998682
			Intercept	0.040493




THC Calibration
25
20
15
10
5
0
-5
PPM
19.54 ppm THC - As found
19.54 ppm THC
AS
10.58 ppm THC
3.02 ppm THC
Amb
CZ
AZ
Calibrator
zero
as found
Pump Rebuild
May 23, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine: ☒	Install: ☐	Removal: ☐	Other: ☐
Start Time (MST)	11:48	End Time (MST)	16:05
Barometric Pressure	28.0 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	0.950439	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	1.000930	Calculated slope	1.009239
Calculated intercept	-0.221173	Calculated intercept	0.362194
Analyzer make	TEI Model 43C	Analyzer serial #	31990000000491

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	25.5	ppb	27.3	ppb
coefficient	1.173		1.218	
Lamp Voltage	892	volts	891	volts
Chamber Temp	44.6	Deg C	44.7	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	668.7	mm Hg	635.5	mm Hg
Sample Flow	484	ccm	768	ccm
Lamp Intesity	39,000	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	2376.1	0.0	0.3	N/A
2500	2376.1	54.8	54.3	1.0086
5000	4752.2	27.4	26.3	1.0431
9000	8554.0	15.2	14.2	1.0737
zero	2376.1	0.0	0.1	As Found Zero
2500	2376.1	54.8	53.3	As Found Span
			Average Correction Factor	1.0418

Calculated value of As Found Response: 53.02 ppm Percent Change of As Found: 3.2%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.5	ppm
Auto span	99.6	ppm	71.0	ppm

Notes: Increased flow.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

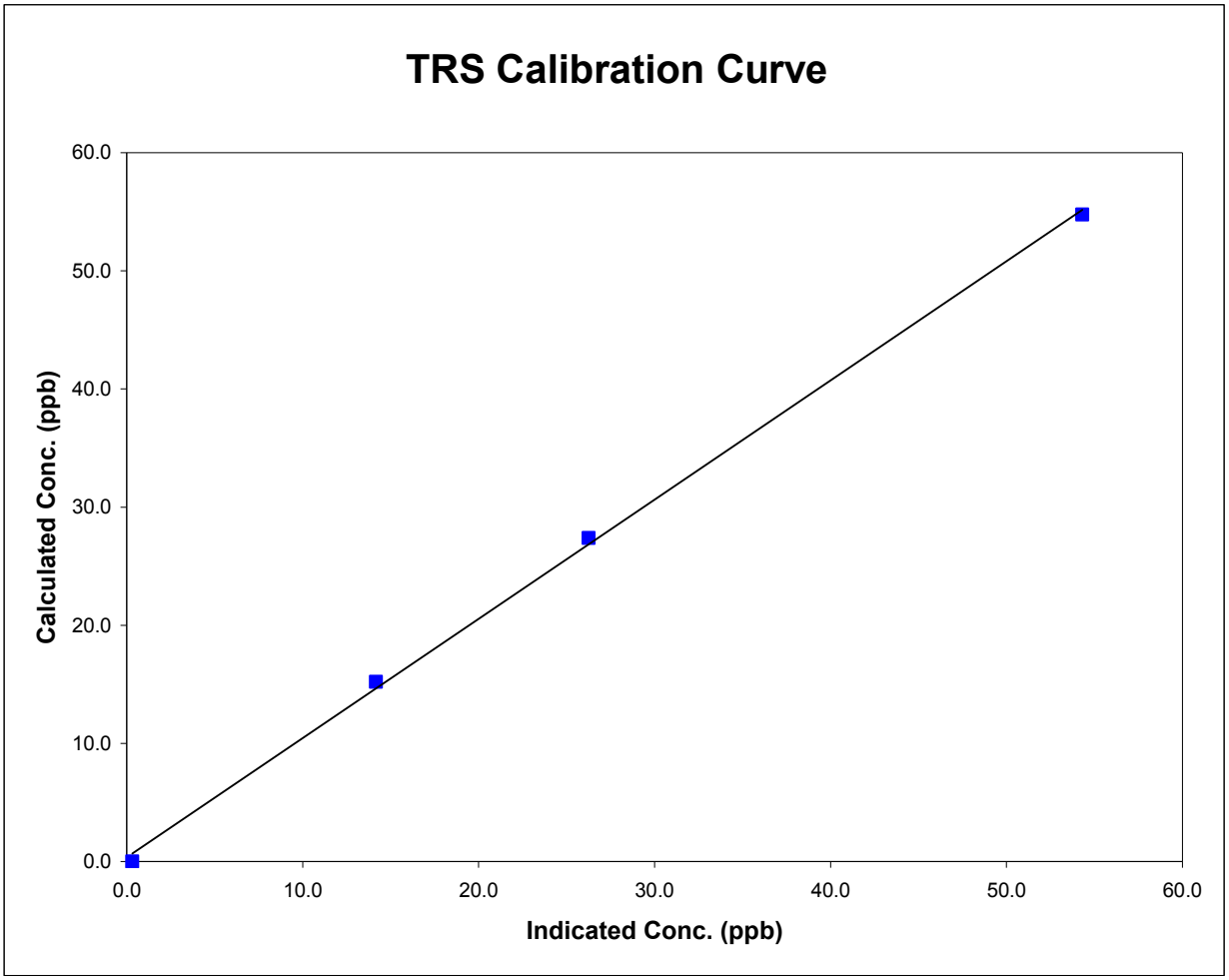
FOCUS AIR QUALITY MONITORING

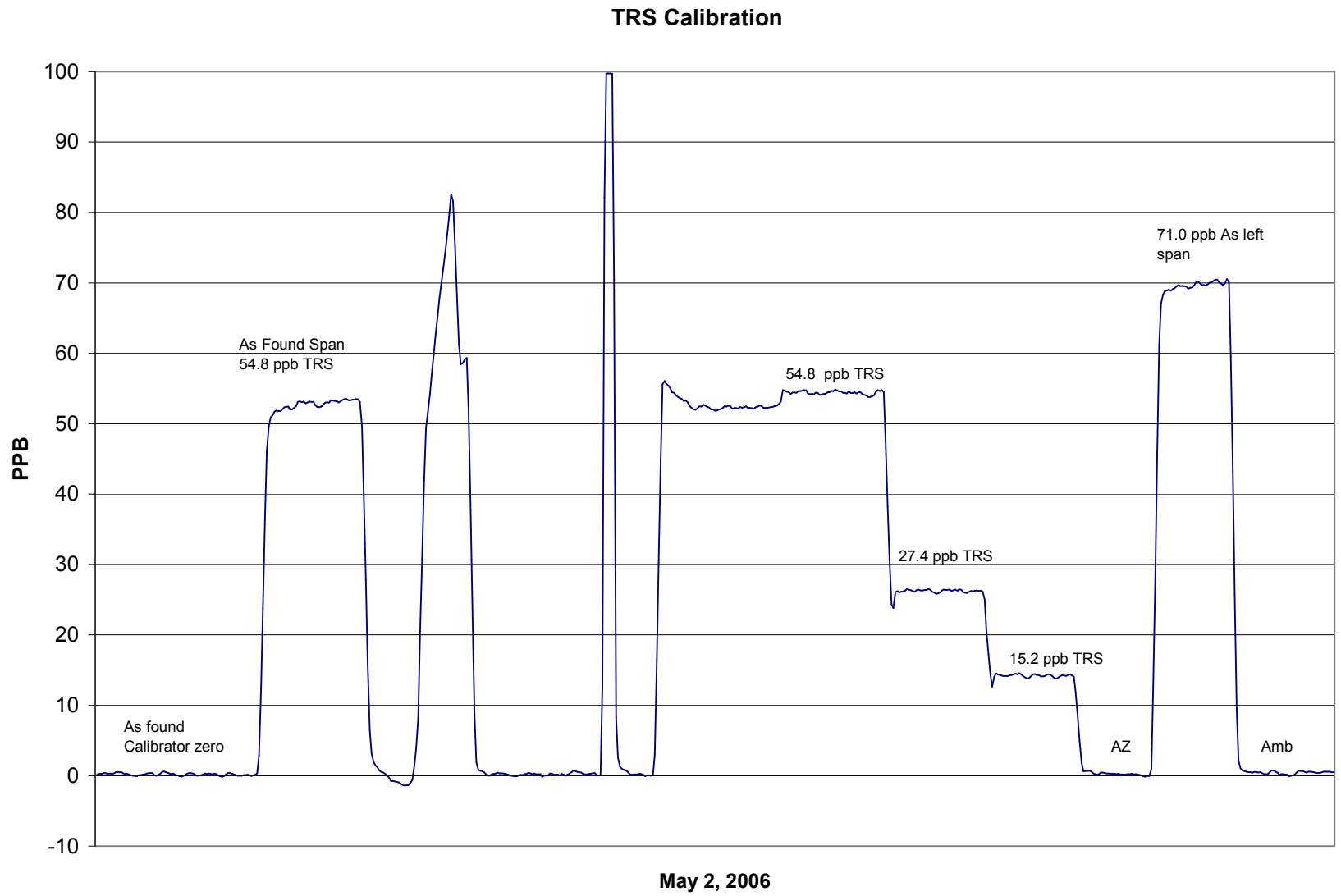
Station Information

Calibration Date	May 2, 2006	Previous Calibration	April 18, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:48	End Time (MST)	16:05
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
54.8	54.3	1.0086	Correlation Coefficient	0.999252
27.4	26.3	1.0431		
15.2	14.2	1.0737	Slope	1.009239
			Intercept	0.362194




TRS Calibration
PPB
100
90
80
70
60
50
40
30
20
10
0
-10
As Found Span
54.8 ppb TRS
54.8 ppb TRS
27.4 ppb TRS
15.2 ppb TRS
71.0 ppb As left
span
As found
Calibrator zero
AZ
Amb
May 2, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **PM2.5**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 23, 2006	Previous Calibration	April 7, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine: Install	Removal	Other:
Start Time (MST)	14:00	End Time (MST)	16:00
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305	
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305	
	before		after	
Main Flow Set Point	3.000	SLPM	2.990	SLPM
Aux Flow Set Point	13.67	SLPM	13.68	SLPM
Filter Load	33	%	15	%
Ko Factor	13020		13020	
Temperature	10.80	Deg C	10.8	Deg C
Pressure	0.924	ATM	0.924	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	0.01		0.01
flow recovery - main	45 - 60 Seconds	28.00	45 - 60 Seconds	28.00
flow recovery - aux	46 - 60 Seconds	55.00	46 - 60 Seconds	55.00
Temperature	measured	10.5	+/- 1.0 Deg C	10.5
Pressure	measured	0.924	+/- 1.5% ΔATM	0.924
Total Flow	16.67 SLPM	16.66		16.66
Main Flow	13.67 SLPM	14.23	+/- 1.0 SLPM	14.23
Auxillary Flow	3.0 SLPM	3.016	+/- 0.2 SLPM	3.016
Leak Check - main	0.0	0.07	<0.15 SLPM	0.07
Leak Check - aux	0.0	0.01	<0.15 SLPM	0.01
Ko Factor (w/o filter)	measured		filter weight (g)	0.11112
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: New filter installed.

Calibration Performed By: Dawn Ewan

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 9, 2006	Previous Calibration	April 19, 2006
Station Number	2	Station Location	Evergreen Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:25	End Time (MST)	14:56
Barometric Pressure	27.7 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	0.941941	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.999109	Calculated slope	1.009315
Calculated intercept	-6.147531	Calculated intercept	-8.746959

Analyzer make	API 100	Analyzer serial # 32

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	424	ccm	425	ccm
UV Lamp Voltage	3200	mv	3500	mv
Lamp Ratio	91	%	100	%
Rx Cell Temp	49	Deg C	49	Deg C
PMT Temp	10	Deg C	10	Deg C
IZS Temp	40	Deg C	40	Deg C
Slope	9.44		8.37	
Intercept	153		45.9	

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	1883.9	0.0	1.6	N/A
2000	1883.9	424.9	426.1	0.9971
5000	4709.7	170.0	182.0	0.9336
9000	8477.5	94.4	107.8	0.8758
zero	1883.9		-8.5	As Found Zero
2000	1883.9	424.9	431.4	As Found Span
			Average Correction Factor	0.9355

Calculated value of As Found Response: 433.360 ppm Percent Change of As Found: -2.0%

	before calibration		after calibration	
Auto zero	-5.2	ppm	-7.1	ppm
Auto span	207.0	ppm	213.6	ppm

Notes: New UV filter; HC Kicker

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

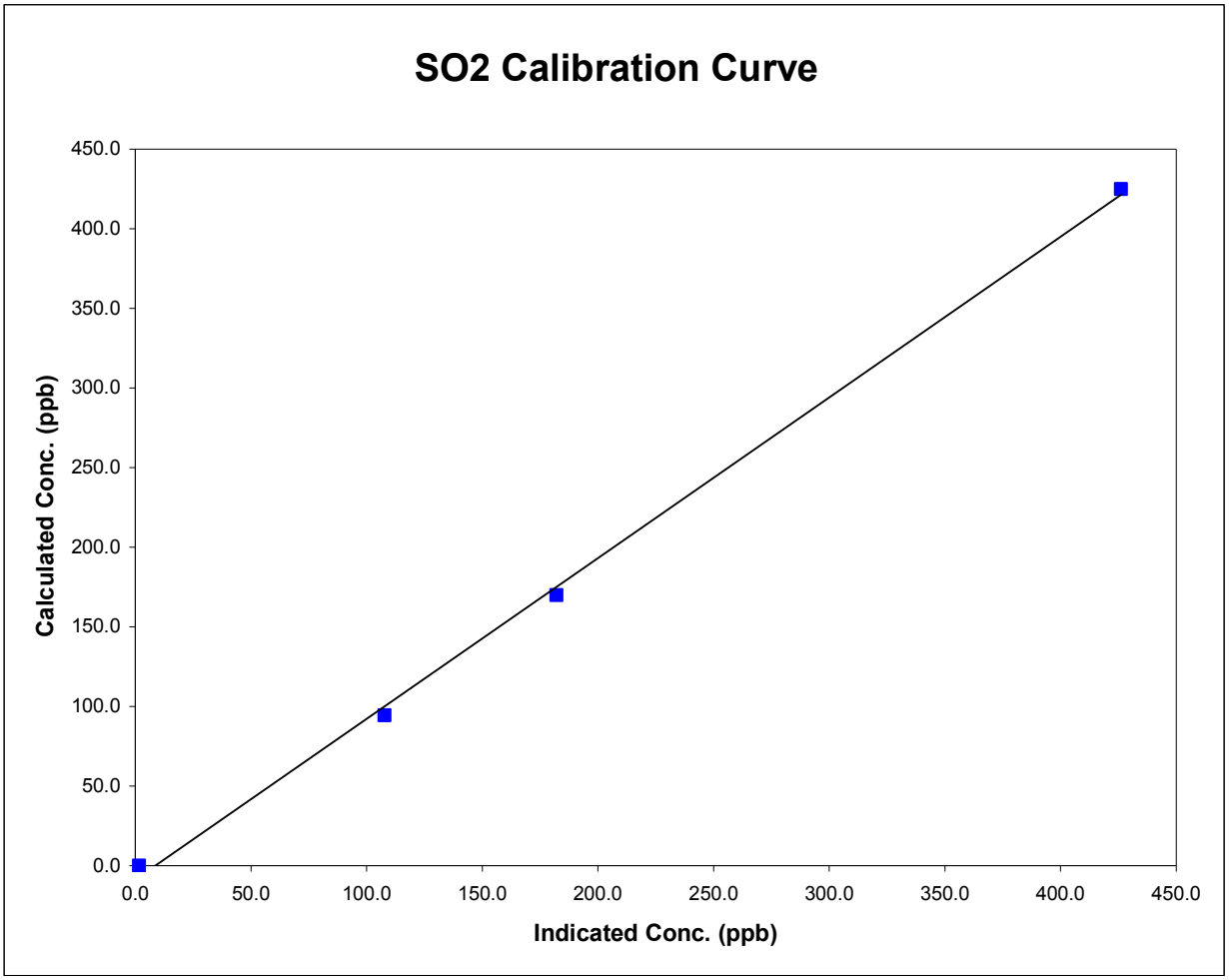
Air Monitoring Network **PASZA**

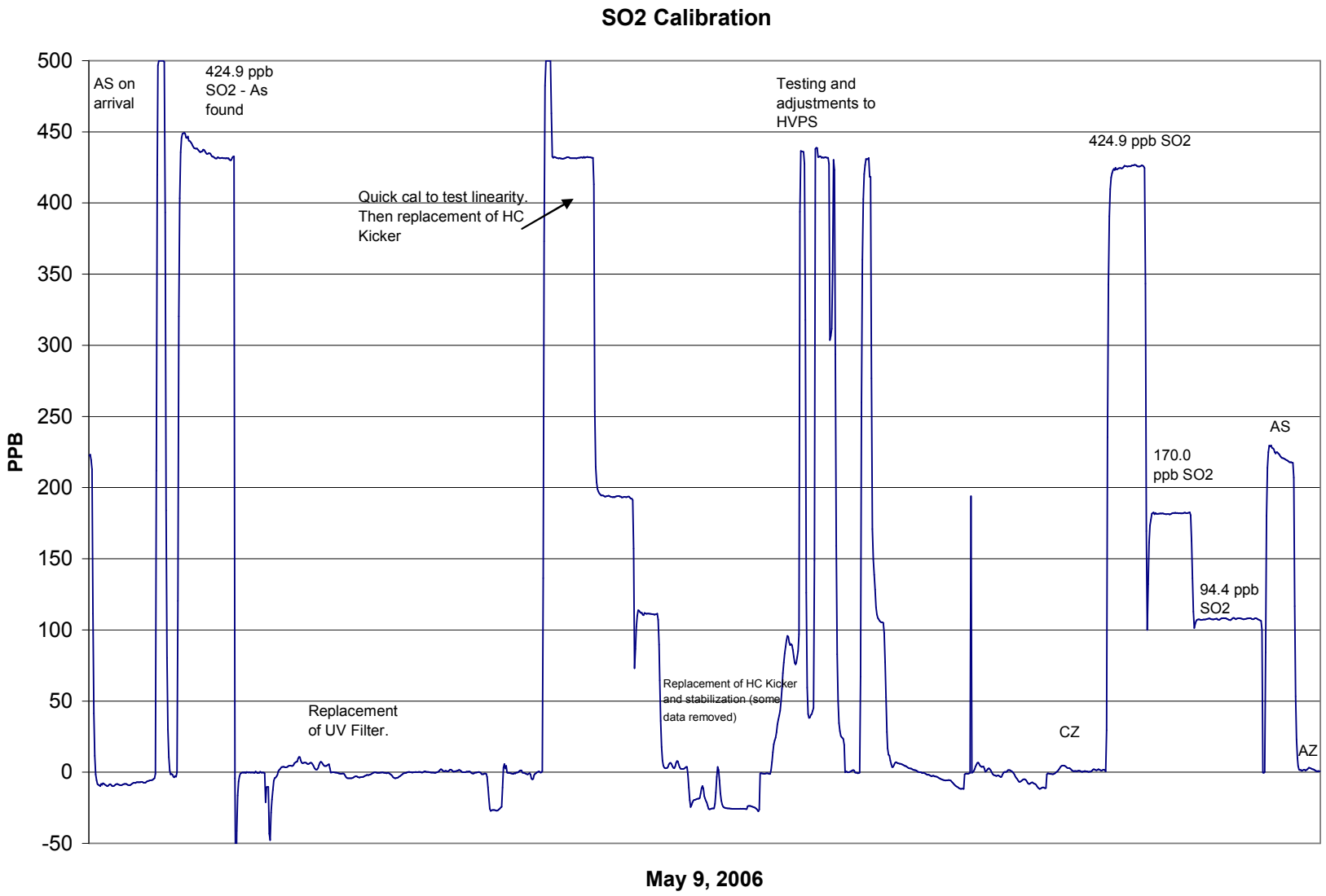
Station Information

Calibration Date	May 9, 2006	Previous Calibration	April 19, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:25	End Time (MST)	14:56
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	1.6	N/A		
424.9	426.1	0.9971	Correlation Coefficient	0.998786
170.0	182.0	0.9336		
94.4	107.8	0.8758	Slope	1.009315
			Intercept	-8.746959




SO2 Calibration
PPB
500
450
400
350
300
250
200
150
100
50
0
-50
AS on arrival
424.9 ppb SO2 - As found
Quick cal to test linearity. Then replacement of HC Kicker
Replacement of UV Filter.
Replacement of HC Kicker and stabilization (some data removed)
Testing and adjustments to HVPS
CZ
424.9 ppb SO2
170.0 ppb SO2
94.4 ppb SO2
AS
AZ
May 9, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 8, 2006	Previous Calibration	April 19, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	Routine ☒	Install ☐	Removal ☐	Other: ☐

Start Time (MST)	10:25	End Time (MST)	17:37
Barometric Pressure	27.71 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	0.941941	Perm-tube Cert #	04-19367
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.997224	Calculated slope	1.001320
Calculated intercept	0.167887	Calculated intercept	-0.321504

Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	13.6	ppb	13.6	ppb
coefficient	1.22		1.235	
Lamp Voltage	759	volts	759	volts
Chamber Temp	44	Deg C	44.2	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	636	mm Hg	646	mm Hg
Sample Flow	469	ccm	474	ccm
Lamp Intesity	32,300	mv	32,200	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	1893.3	0.0	0.1	N/A
2010	1893.3	68.7	68.9	0.9971
4985	4695.6	27.7	27.8	0.9961
9500	8948.4	14.5	15.3	0.9501
zero	1883.9	0.0	0.9	As Found Zero
2000	1883.9	69.1	66.2	As Found Span
			Average Correction Factor	0.9811

Calculated value of As Found Response: 65.24 ppm Percent Change of As Found: 5.6%

	before calibration		after calibration	
Auto zero	0.8	ppm	0.1	ppm
Auto span	85.2	ppm	86.2	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

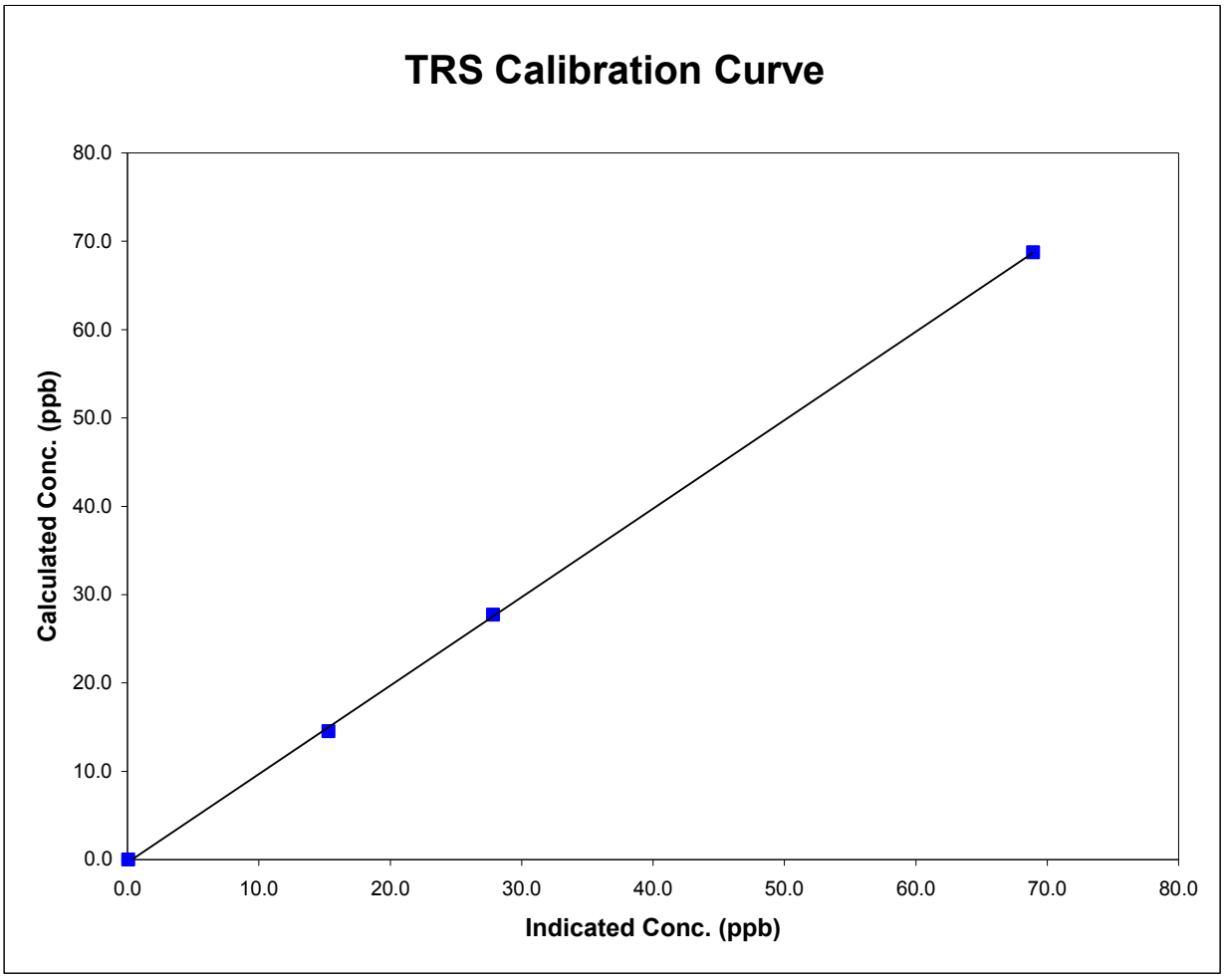
Air Monitoring Network **PASZA**

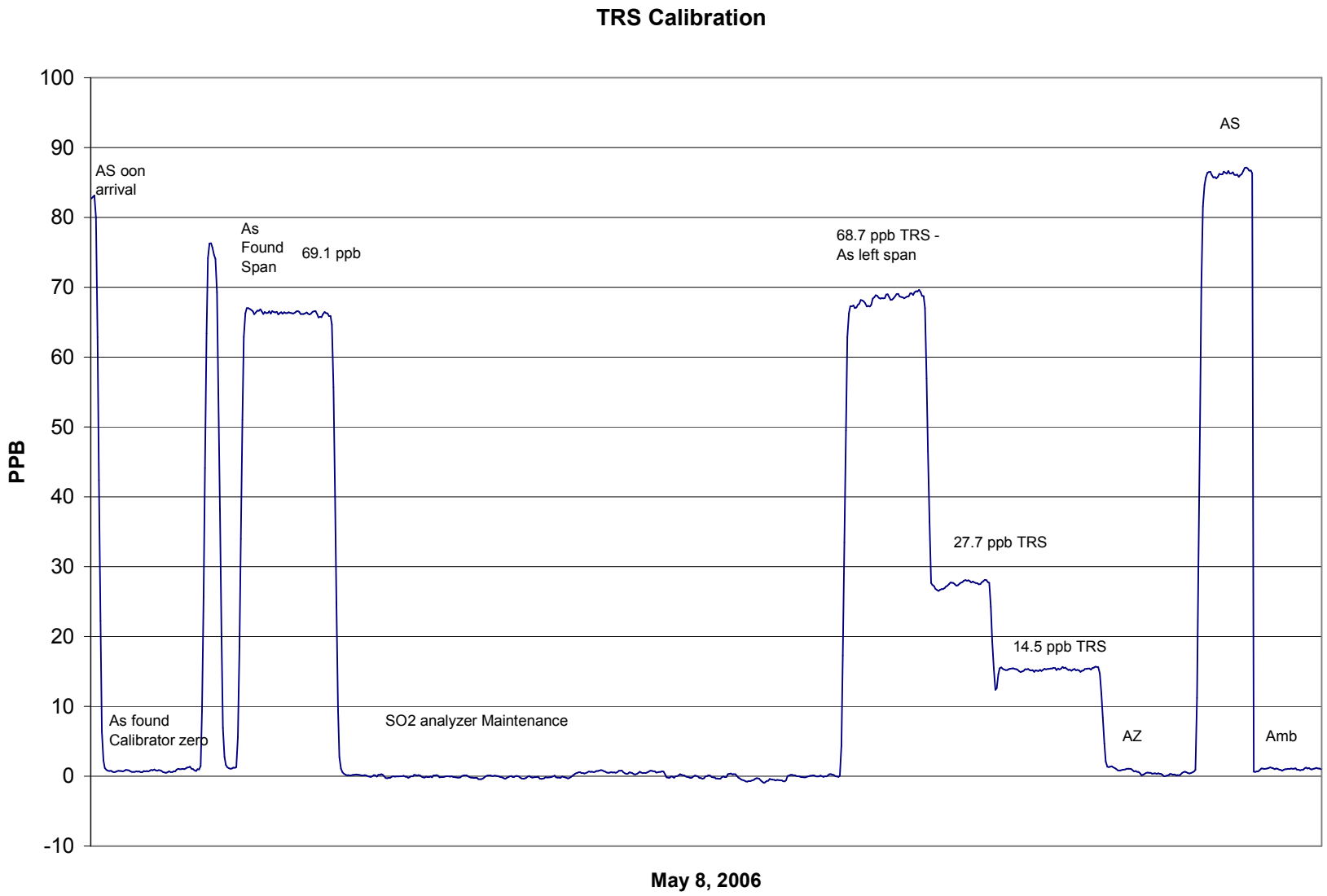
Station Information

Calibration Date	May 8, 2006	Previous Calibration	April 19, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:25	End Time (MST)	17:37
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
68.7	68.9	0.9971	Correlation Coefficient	0.999882
27.7	27.8	0.9961		
14.5	15.3	0.9501	Slope	1.001320
			Intercept	-0.321504




TRS Calibration
100
90
80
70
60
50
40
30
20
10
0
-10
PPB
AS oon arrival
As Found Span
69.1 ppb
68.7 ppb TRS - As left span
AS
27.7 ppb TRS
14.5 ppb TRS
As found Calibrator zero
SO2 analyzer Maintenance
AZ
Amb
May 8, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **PM2.5**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 9, 2006	Previous Calibration	April 18, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	Routine ☒	Install ☐	Removal ☐	Other: ☐
Start Time (MST)	11:30	End Time (MST)	13:30
Barometric Pressure	0.923 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.66	SLPM	13.65	SLPM
Filter Load	41	%	10	%
Ko Factor	10124		10124	
Temperature	13.7	Deg C	13.7	Deg C
Pressure	0.935	ATM	0.935	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	-0.03		-0.03
flow recovery - main	45 - 60 Seconds	35.0	45 - 60 Seconds	35.0
flow recovery - aux	46 - 60 Seconds	45.0	46 - 60 Seconds	45.0
Temperature	measured	13.1	+/- 1.0 Deg C	13.1
Pressure	measured	0.926	+/- 1.5% Δ_{ATM}	0.926
Total Flow	16.67 SLPM	16.20		16.20
Main Flow	13.67 SLPM	13.69	+/- 1.0 SLPM	13.69
Auxillary Flow	3.0 SLPM	3.002	+/- 0.2 SLPM	3.002
Leak Check - main	0.0	-0.01	<0.15 SLPM	-0.01
Leak Check - aux	0.0	0.18	<0.15 SLPM	0.18
Ko Factor (w/o filter)	measured	307.318	filter weight (g)	0.11012
Ko Factor (w/ filter)	measured	216.302	% Ko difference	-0.85%

Notes: Small leak in v-seal. Replace as soon as one available.

Calibration Performed By: Dawn Ewan

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 4, 2006	Previous Calibration	April 3, 2006
Station Number	3	Station Location	Smoky Heights
Reason:	Routine: ☒ Install: ☐ Removal: ☐	Other:	Check on lack of span
Start Time (MST)	11:03	End Time (MST)	15:14
Barometric Pressure	27.67 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	0.940581	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.989047	Calculated slope	1.002111
Calculated intercept	5.206772	Calculated intercept	-1.200673
Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	574	ccm	567	ccm
UV Lamp Voltage	3140	mv	2660	mv
Lamp Ratio	90	%	76	%
Rx Cell Temp	51.4	Deg C	51	Deg C
PMT Temp	7	Deg C	7	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	1.082		1.155	
Intercept	21.3		21.2	

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	1942.3	0.0	0.3	N/A
2065	1942.3	412.1	411.9	1.0005
5000	4702.9	170.2	172.1	0.9890
9000	8465.2	94.6	95.9	0.9859
zero	1942.3	0.0	1.1	As Found Zero
2065	1942.3	412.1	377.8	As Found Span
			Average Correction Factor	0.9918

Calculated value of As Found Response: 377.781 ppm Percent Change of As Found: 8.3%

	before calibration		after calibration	
Auto zero	4.4	ppm	-0.2	ppm
Auto span	238.5	ppm	245.9	ppm

Notes: Replaced zero charcoal. Adjusted zero and span.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **SO2**

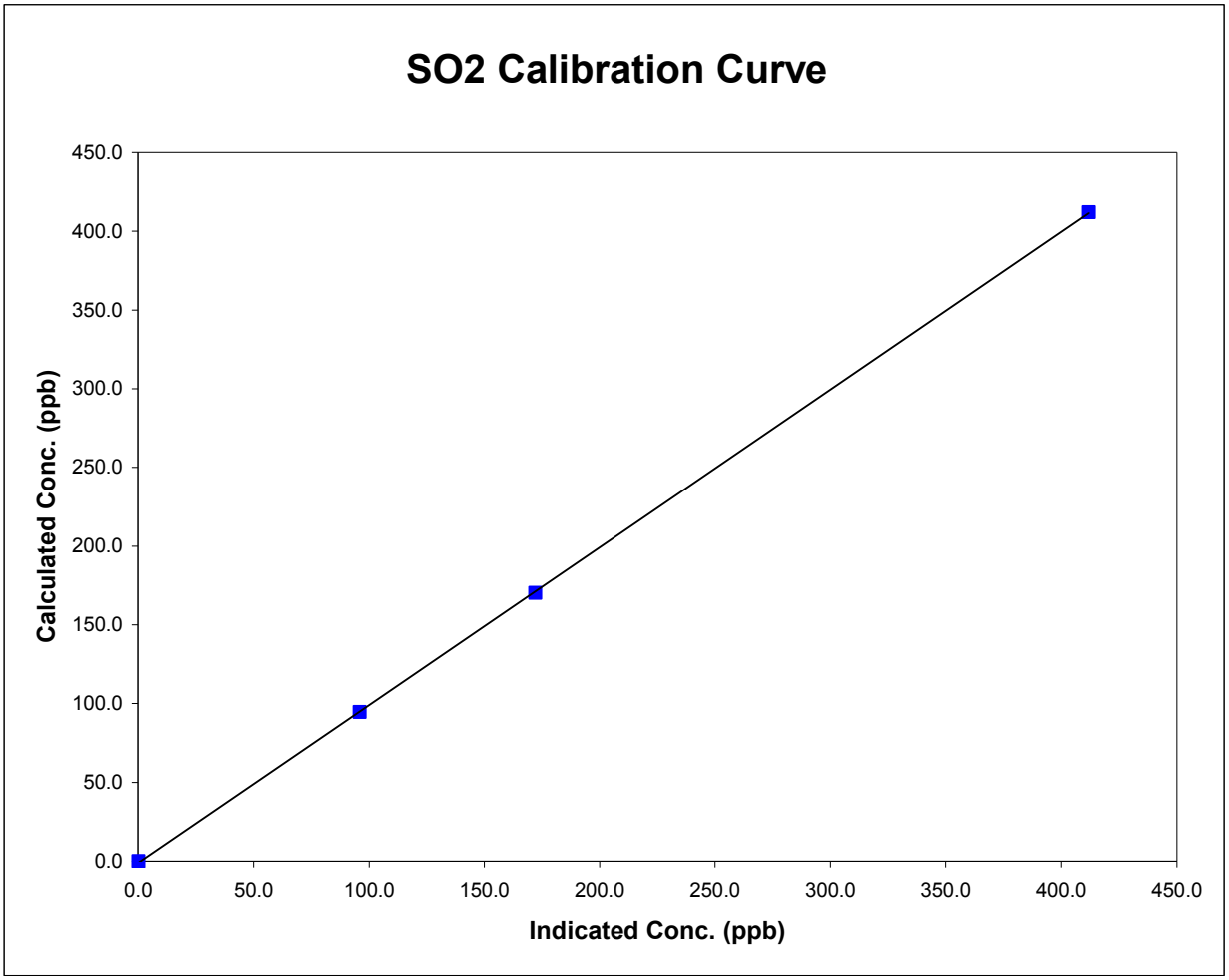
Air Monitoring Network **PASZA**

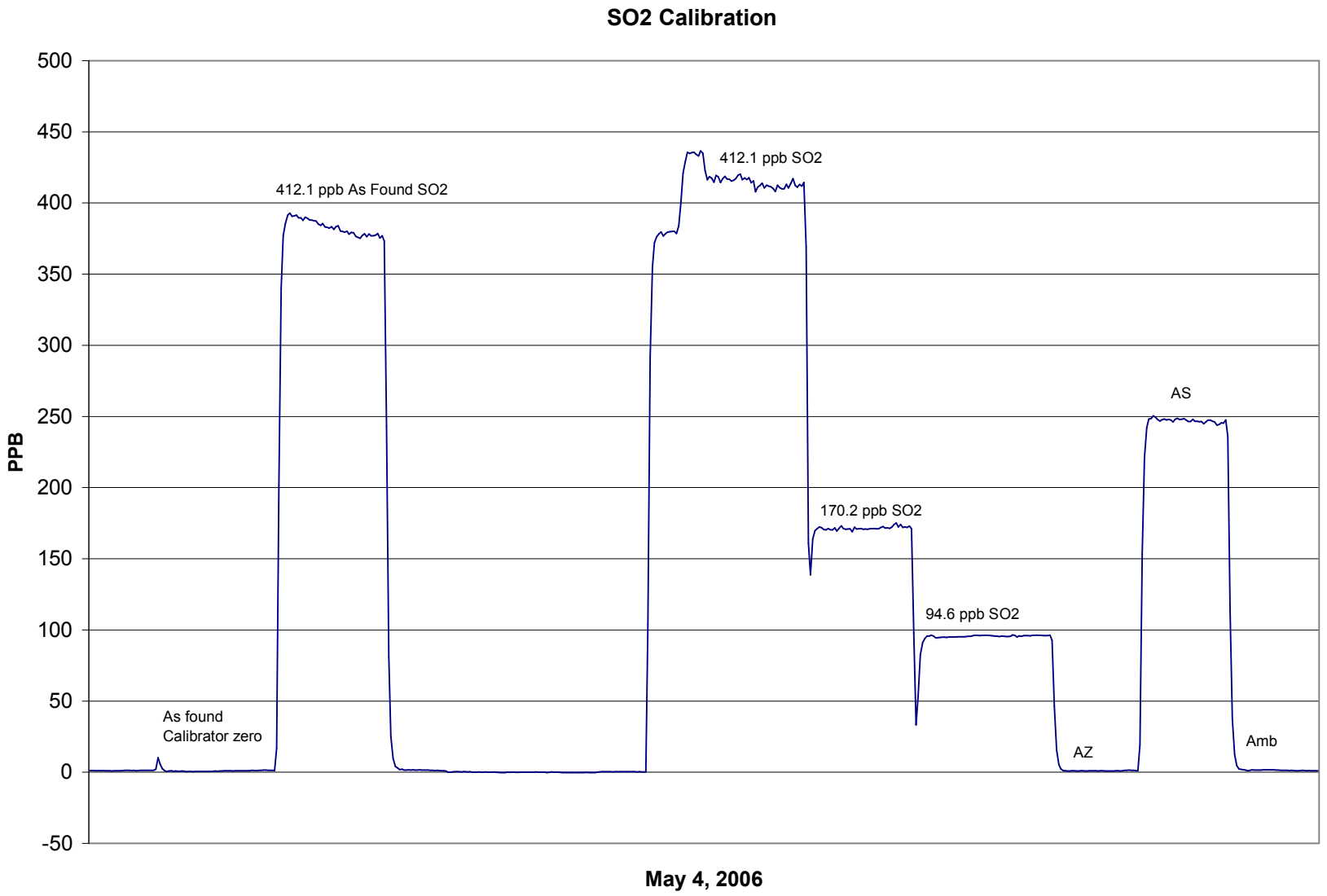
Station Information

Calibration Date	May 4, 2006	Previous Calibration	April 3, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:03	End Time (MST)	15:14
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	0.3	N/A		
412.1	411.9	1.0005	Correlation Coefficient	0.999975
170.2	172.1	0.9890		
94.6	95.9	0.9859	Slope	1.002111
			Intercept	-1.200673




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
412.1 ppb As Found SO2
412.1 ppb SO2
170.2 ppb SO2
94.6 ppb SO2
AS
As found
Calibrator zero
AZ
Amb
May 4, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 4, 2006	Previous Calibration	April 3, 2006
Station Number	3	Station Location	Smoky Heights
Reason:	Routine ☒	Install ☐	Removal ☐	Other: ☐
Start Time (MST)	11:03	End Time (MST)	15:14
Barometric Pressure	27.67 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	0.940581	Perm-tube Cert #	03-13509
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.975336	Calculated slope	0.998048
Calculated intercept	0.519720	Calculated intercept	-0.070997
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	10.4	ppb	10.2	ppb
coefficient	1.093		1.131	
Lamp Voltage	783	volts	780	volts
Chamber Temp	43.9	Deg C	44.1	Deg C
Perm Gas Temp	45.04	Deg C	49.96	Deg C
Pressure	635.4	mm Hg	644.8	mm Hg
Sample Flow	465	ccm	471	ccm
Lamp Intesity	32,100	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	1942.3	0.0	0.2	N/A
2065	1942.3	67.0	67.3	0.9962
5000	4702.9	27.7	27.7	0.9973
9000	8465.2	15.4	15.3	1.0037
zero	1942.3	0.0	-0.1	As Found Zero
2065	1942.3	67.0	63.6	As Found Span
			Average Correction Factor	0.9991

Calculated value of As Found Response: 62.70 ppm Percent Change of As Found: 6.4%

	before calibration		after calibration	
Auto zero	0.4	ppm	0.2	ppm
Auto span	88.0	ppm	92.3	ppm

Notes: New perm tube and capilliary installed.
Replaced zero air charcoal. Adjusted zero and span.

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **TRS**

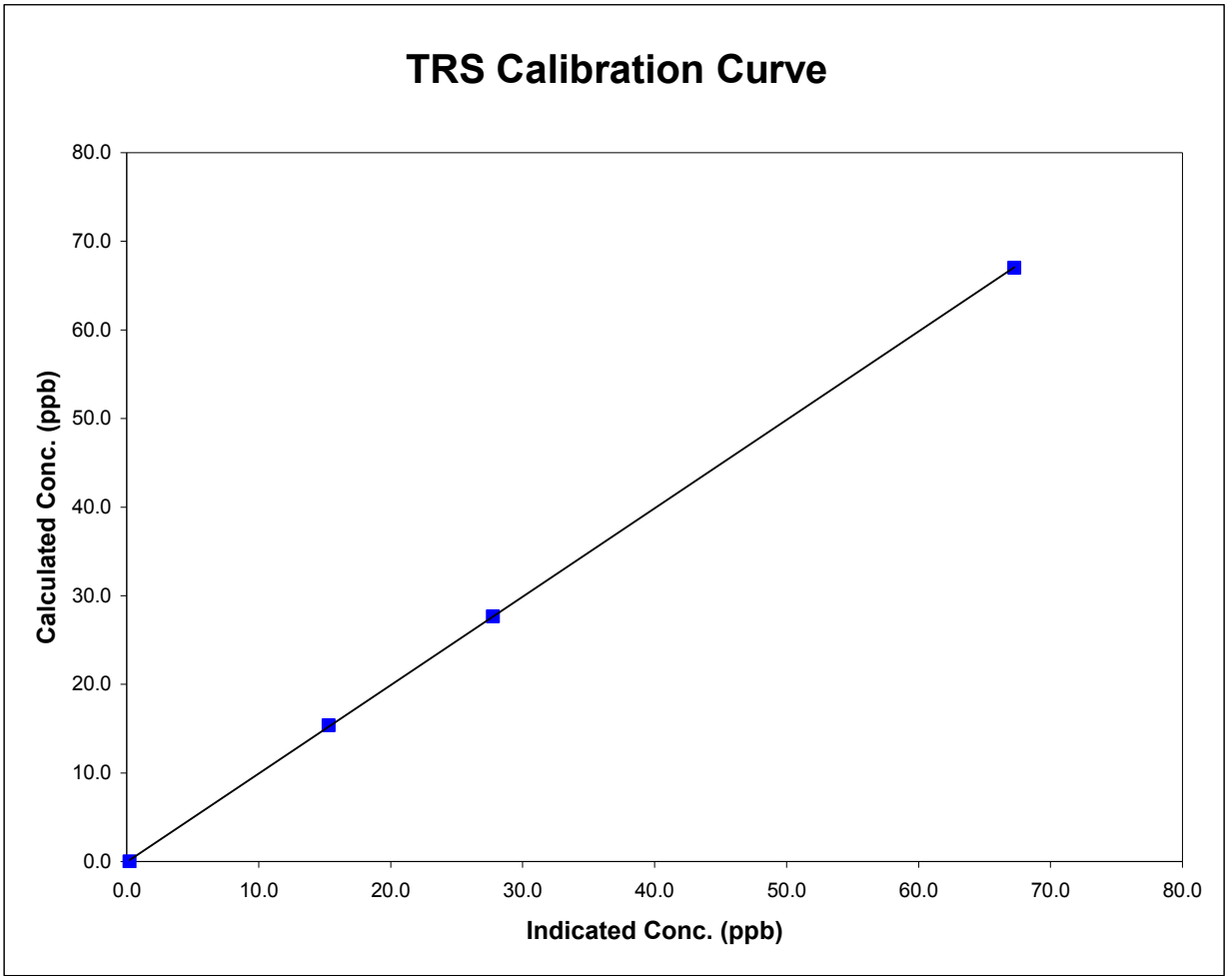
Air Monitoring Network **PASZA**

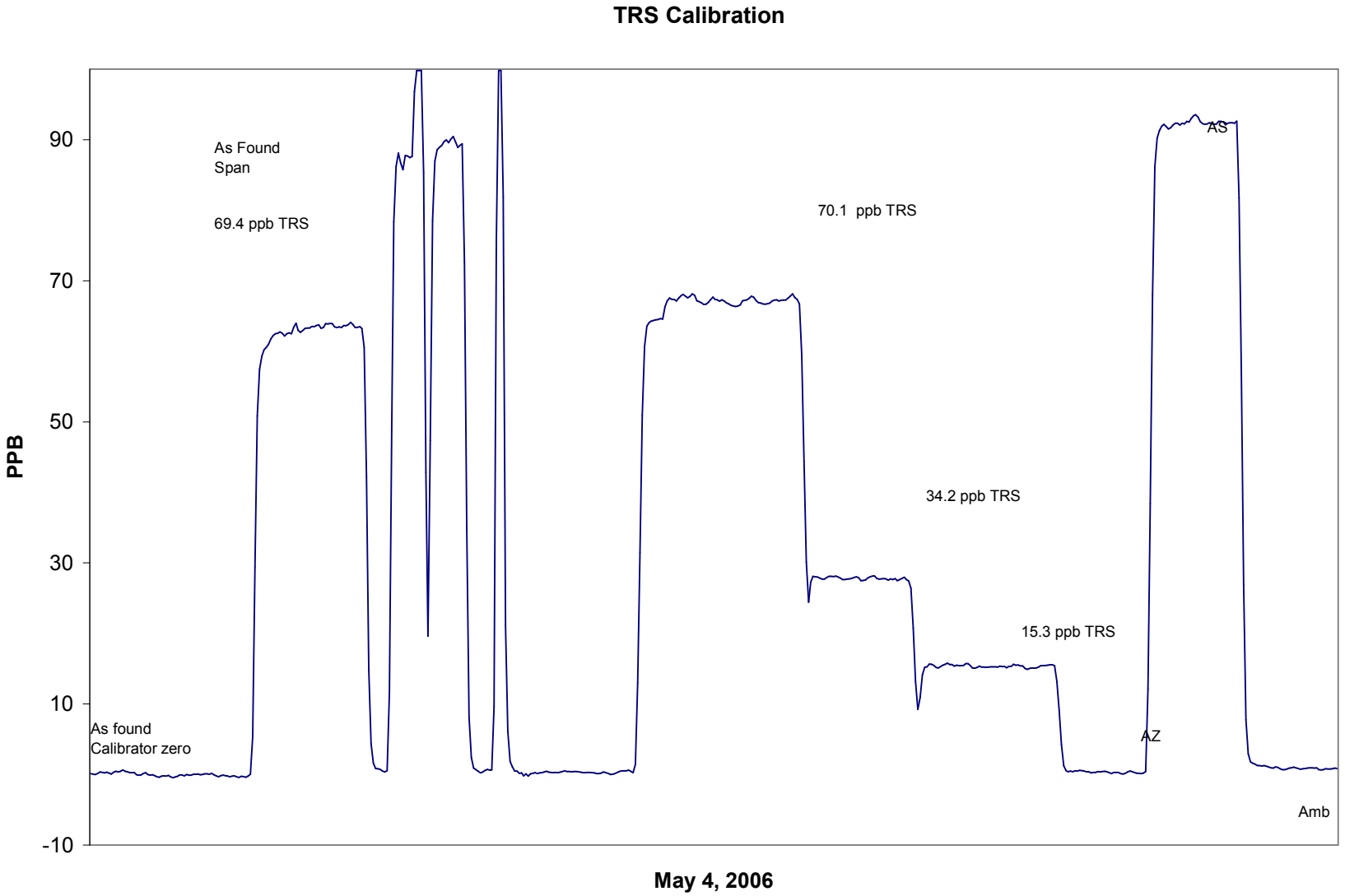
Station Information

Calibration Date	May 4, 2006	Previous Calibration	April 3, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:03	End Time (MST)	15:14
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
67.0	67.3	0.9962	Correlation Coefficient	0.999978
27.7	27.7	0.9973		
15.4	15.3	1.0037	Slope	0.998048
			Intercept	-0.070997




TRS Calibration
PPB
90
70
50
30
10
-10
As Found
Span
69.4 ppb TRS
70.1 ppb TRS
34.2 ppb TRS
15.3 ppb TRS
AS
AZ
As found
Calibrator zero
Amb
May 4, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **PM2.5**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 4, 2006	Previous Calibration	April 19, 2006
Station Number	3	Station Location	Smoky Heights
Reason: Routine	Install	Removal	Other:
Start Time (MST)	12:37	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	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	23	%	22	%
Ko Factor	12122		12122	
Temperature	21.3	Deg C	16.8	Deg C
Pressure	0.925	ATM	0.919	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.01		0.01
zero flow - auxillary	0.0	-0.01		-0.01
flow recovery - main	45 - 60 Seconds	27	45 - 60 Seconds	27
flow recovery - aux	46 - 60 Seconds	47	46 - 60 Seconds	47
Temperature	measured	21.6	+/- 1.0 Deg C	21.6
Pressure	measured	0.930	+/- 1.5% Δ_{ATM}	0.930
Total Flow	16.67 SLPM	15.80		15.80
Main Flow	13.67 SLPM	13.25	+/- 1.0 SLPM	13.25
Auxillary Flow	3.0 SLPM	2.960	+/- 0.2 SLPM	2.960
Leak Check - main	0.0	0.01	<0.15 SLPM	0.01
Leak Check - aux	0.0	-0.01	<0.15 SLPM	-0.01
Ko Factor (w/o filter)	measured	324.856	filter weight (g)	0.11014
Ko Factor (w/ filter)	measured	232.135	% Ko difference	0.05%

Notes: Cleaned head. Old filter reinstalled.

Calibration Performed By: Dawn Ewan

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **SO_2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 25, 2006	Previous Calibration	April 11, 2006
Station Number	4	Station Location	Beaverlodge

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	9:15	End Time (MST)	12:05
Barometric Pressure	0.912 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3

	Before		After
Calculated slope	1.010050	Calculated slope	0.991036
Calculated intercept	-0.125754	Calculated intercept	0.349887

Analyzer make	TEI Model 43CTL		Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.39	ppb	2.44	ppb
Coefficient	0.828		0.862	
Lamp Voltage	909.0	Volts	899.0	Volts
Chamber Temp	43.2	Deg C	43.3	Deg C
Sample Flow	616	ccm	617	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)
4992	0.00	0.00	-0.20	N/A
4992	39.98	81.84	82.22	0.9953
4992	19.93	40.96	41.13	0.9958
4992	9.95	20.49	20.02	1.0236
4992	0.00	0.00	-0.20	As Found Zero
4992	39.98	81.84	80.39	As Found Span
			Average Correction Factor	1.0049

Calculated value of As Found Response: 81.272 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	-0.19	ppm	0.18	ppm
Auto span	27.70	ppm	27.59	ppm

Notes: New perm tube installed.
Span adjustment only.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

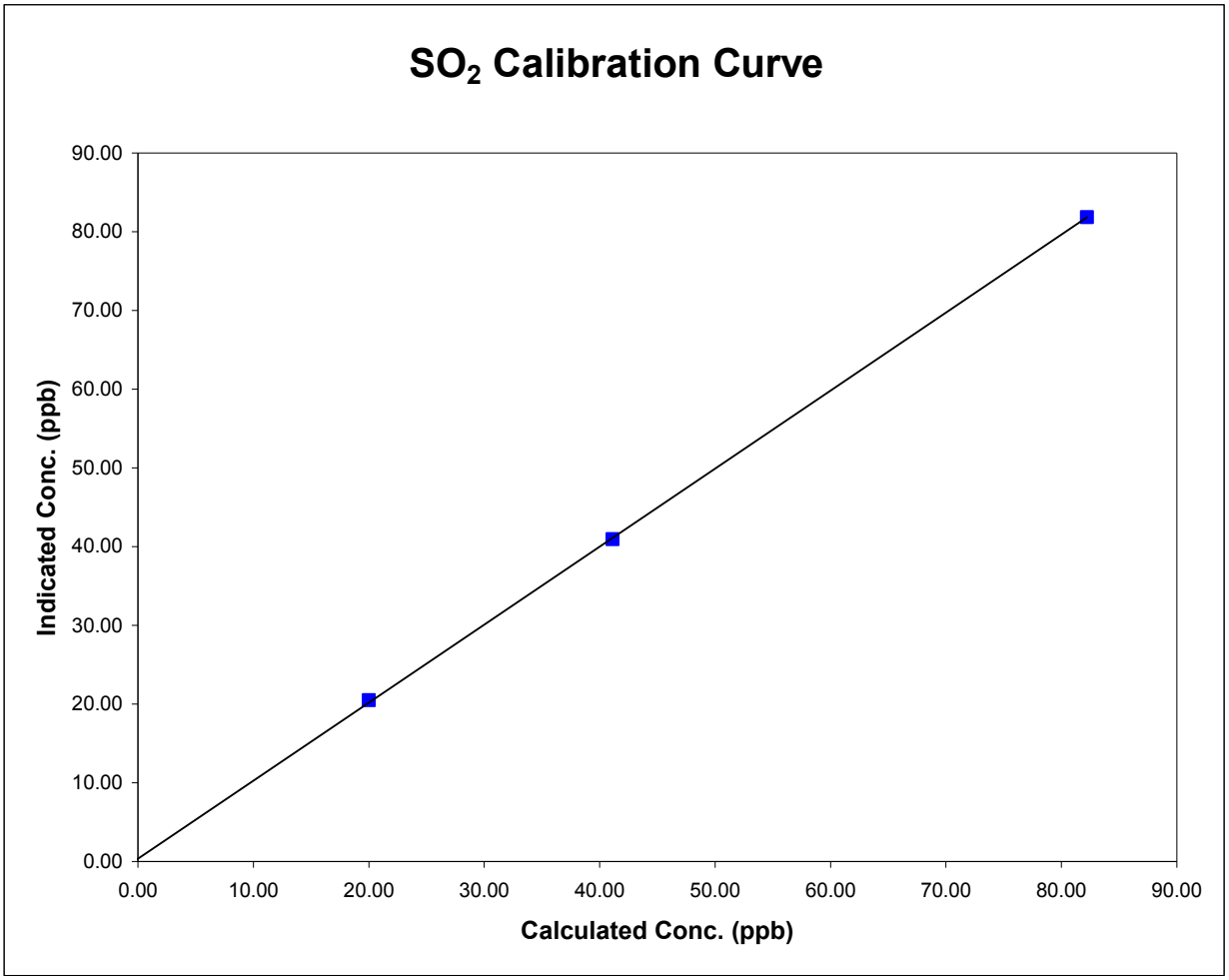
FOCUS AIR QUALITY MONITORING

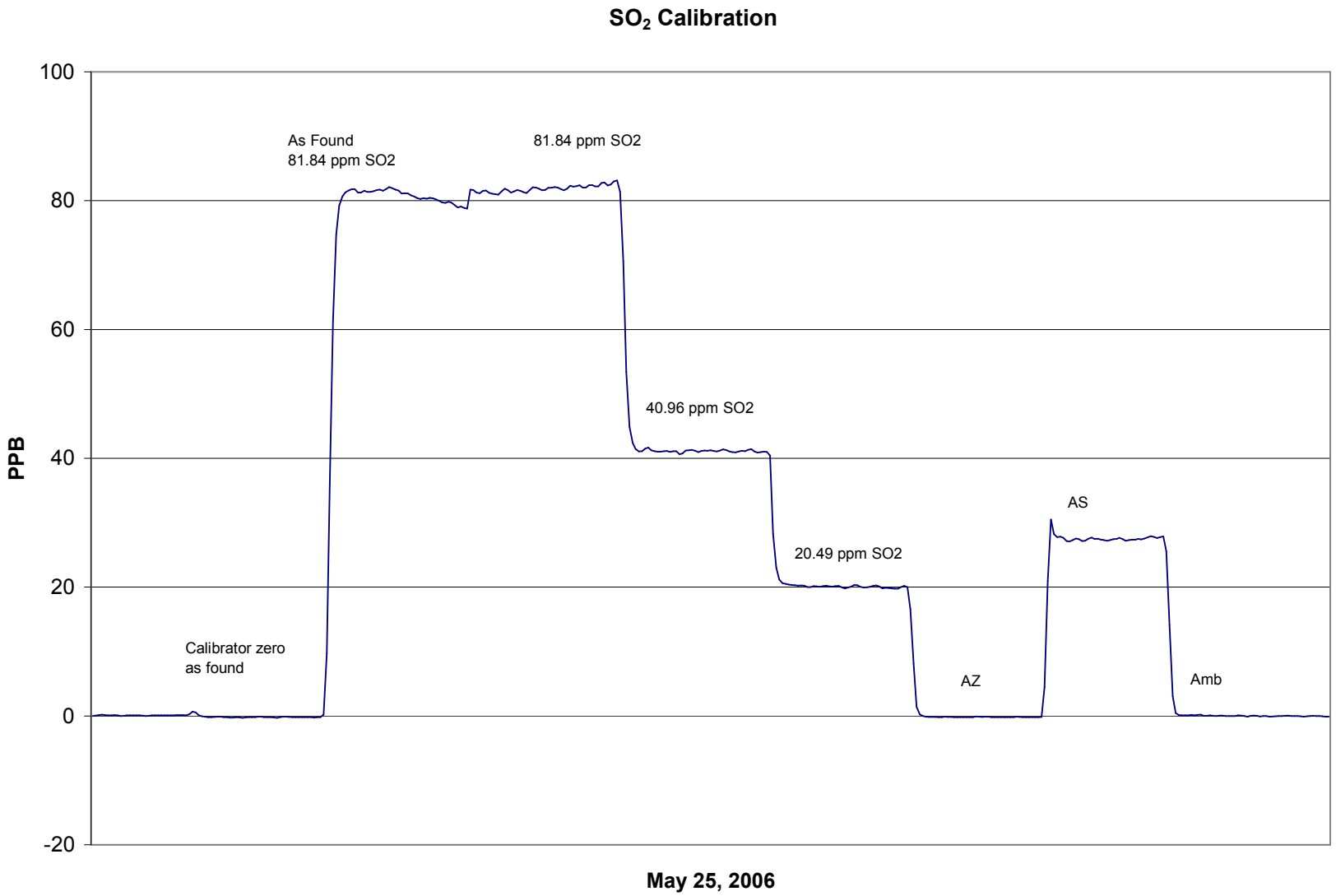
Station Information

Calibration Date	May 25, 2006	Previous Calibration	April 11, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:15	End Time (MST)	12:05
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	-0.200	N/A		
81.835	82.220	0.9953	Correlation Coefficient	0.999962
40.958	41.131	0.9958		
20.489	20.016	1.0236	Slope	0.991036
			Intercept	0.349887




SO2 Calibration
100
80
60
40
20
0
-20
PPB
As Found
81.84 ppm SO2
81.84 ppm SO2
40.96 ppm SO2
20.49 ppm SO2
AS
Calibrator zero
as found
AZ
Amb
May 25, 2006

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 24, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	10:30		End Time (MST)	14:55	
Barometric Pressure	0.916	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6103		Serial Number	2977	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	Nov 22/06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.999807	1.001268	1.002293
	Data Offset	0.209217	0.934865	0.795856
After	Data Slope	1.001328	1.000025	0.999981
	Data Offset	0.029693	-0.014692	0.112771
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	1.1	ppb	1.2	mV
NOx background	1.4	ppb	1.4	mV
NO coefficient	0.952		0.970	
NOx coefficient	0.992		0.994	
Box Temp	27.3	ccm	28.4	ccm
Chamber Temp	49.4	Deg C	49.1	Deg C
Cooler Temp	-2.1	Deg C	-2.0	Deg C
Converter Temp	324.0	Deg C	325.0	Deg C
Sample Flow	831.0	LPM	824.0	LPM
Ozonator Flow	0.087	LPM	0.087	LPM
Pressure	159.6	inches HG	164.2	inches Hg

Notes:

Calibration Report

Parameter **$NOx\text{-}NO\text{-}NO_2$**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: May 24, 2006 Station Location: Beaverlodge

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.4	N/A	N/A
1	4992	79.92	795.7	792.6	3.2	795.4	792.2	2.3	1.0004	1.0005
2	4992	39.98	401.2	399.6	1.6	401.8	400.2	1.1	0.9985	0.9986
3	4992	20.00	201.5	200.7	0.8	201.5	200.5	0.5	1.0000	1.0011
AFZ	4992	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.4	0.0000	0.0000
AFS	4992	79.92	795.7	792.6	3.2	779.8	779.2	-0.3	1.0204	1.0172
							Average Correction Factor		0.9996	1.0001

As Found Concentrations: NO_X= 781.0 NO= 780.4 As Found Percent Change NO_X= -1.9% NO= -1.5%

GPT Calibration Data

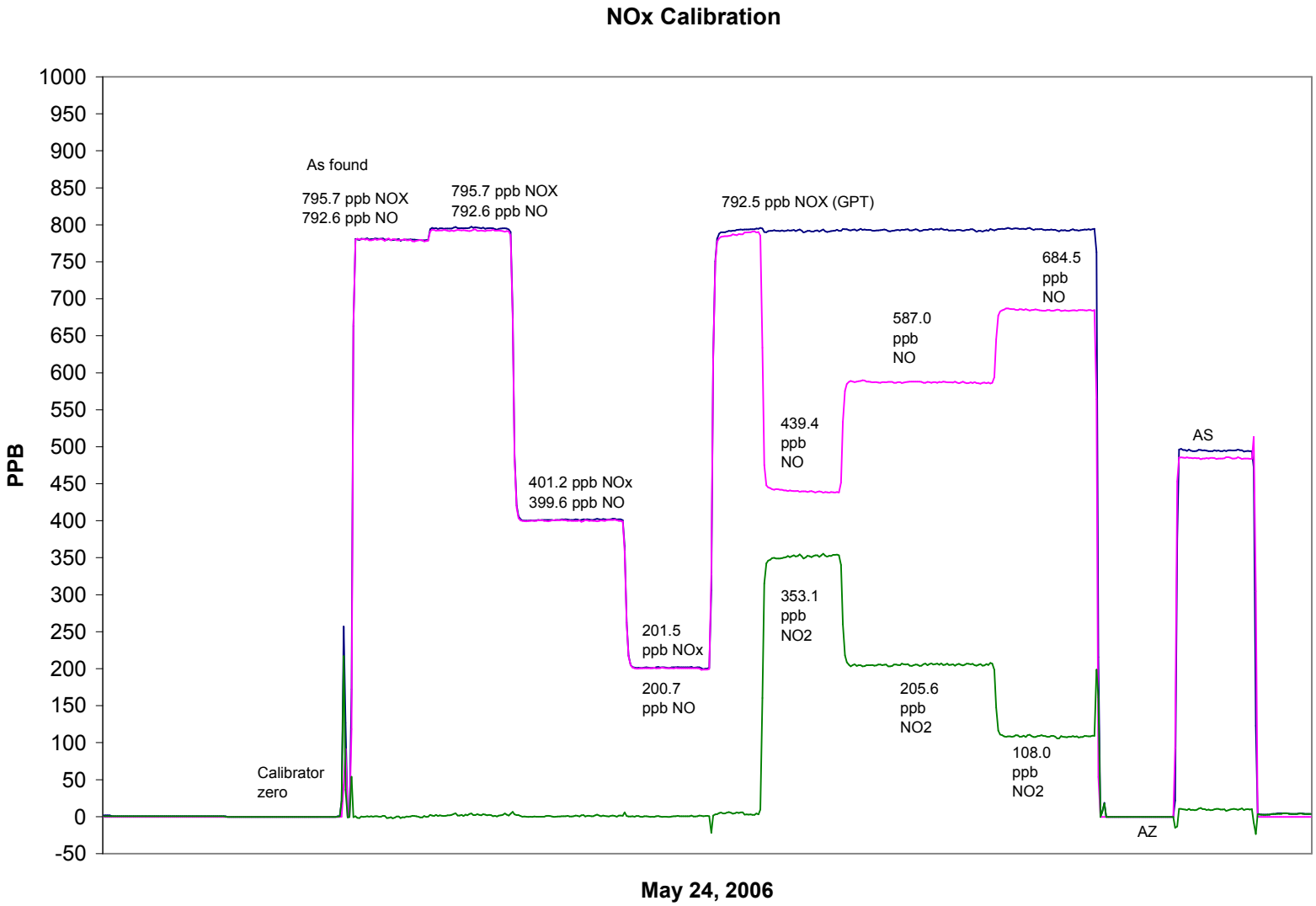
Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	792.5	787.0	5.5	792.3	786.9	4.4	1.0004	1.0001	N/A	N/A
350	792.5	439.4	353.1	791.8	439.3	352.3	1.0009	1.0002	1.0023	99.8%
200	792.5	587.0	205.6	792.9	586.9	205.7	0.9995	1.0002	0.9996	100.0%
100	792.5	684.5	108.0	792.9	684.4	108.1	0.9996	1.0001	0.9994	100.1%
					Average Correction Factor		1.0000	1.0002	1.0004	100.0%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.6	-0.1	0.5	ppb	-0.3	-0.3	-0.2	ppb
Auto span	488.6	9.7	479.0	ppb	494.6	9.7	484.5	ppb

Calibration Performed By: Dawn Ewan


NOx Calibration
PPB
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
As found
795.7 ppb NOX
792.6 ppb NO
795.7 ppb NOX
792.6 ppb NO
792.5 ppb NOX (GPT)
684.5
ppb
NO
587.0
ppb
NO
439.4
ppb
NO
AS
401.2 ppb NOx
399.6 ppb NO
201.5
ppb NOx
200.7
ppb NO
353.1
ppb
NO2
205.6
ppb
NO2
108.0
ppb
NO2
Calibrator
zero
AZ
May 24, 2006

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **PASZA**

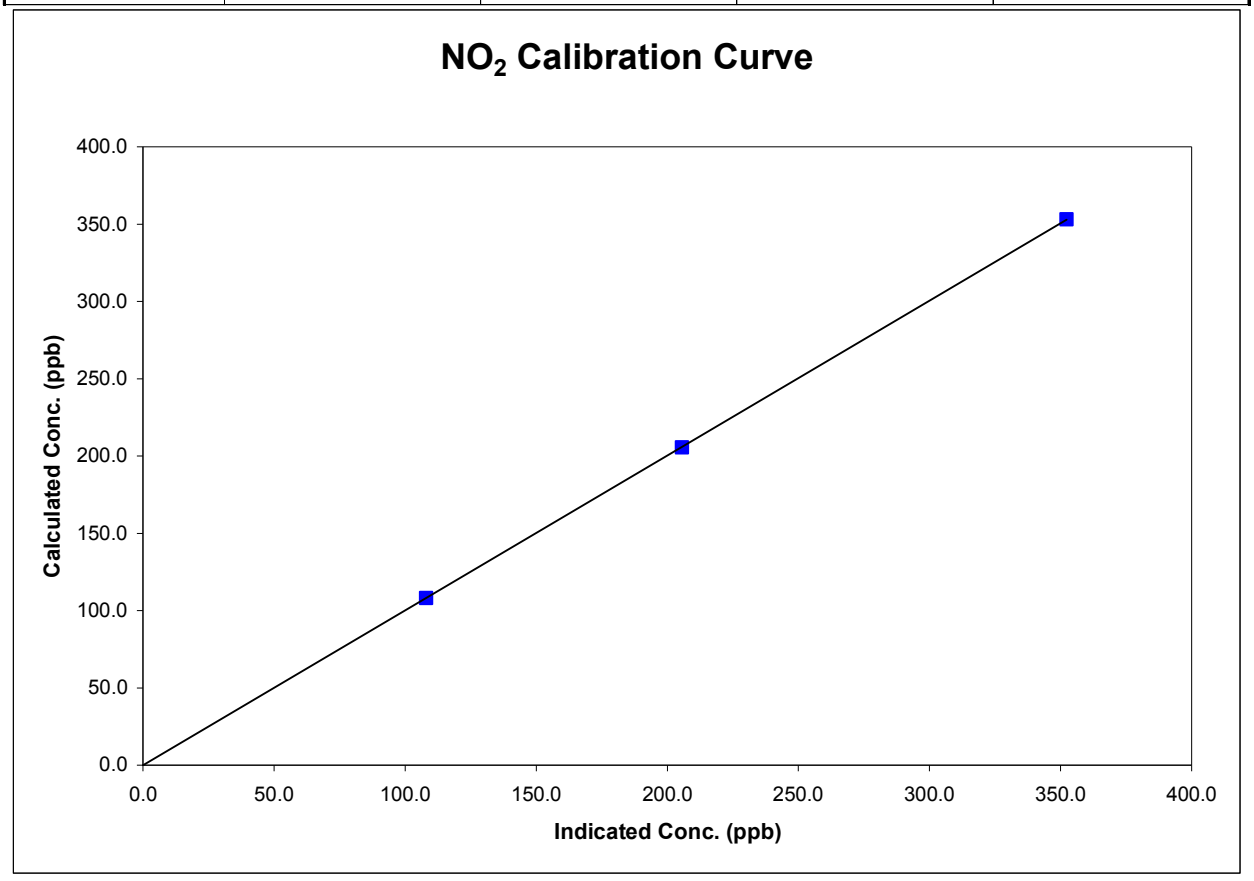
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 24, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:30	End Time (MST)	14:55
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		
353.1	352.3	1.0023	Correlation Coefficient	0.999994
205.6	205.7	0.9996		
108.0	108.1	0.9994	Slope	1.001328
			Intercept	0.029693



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

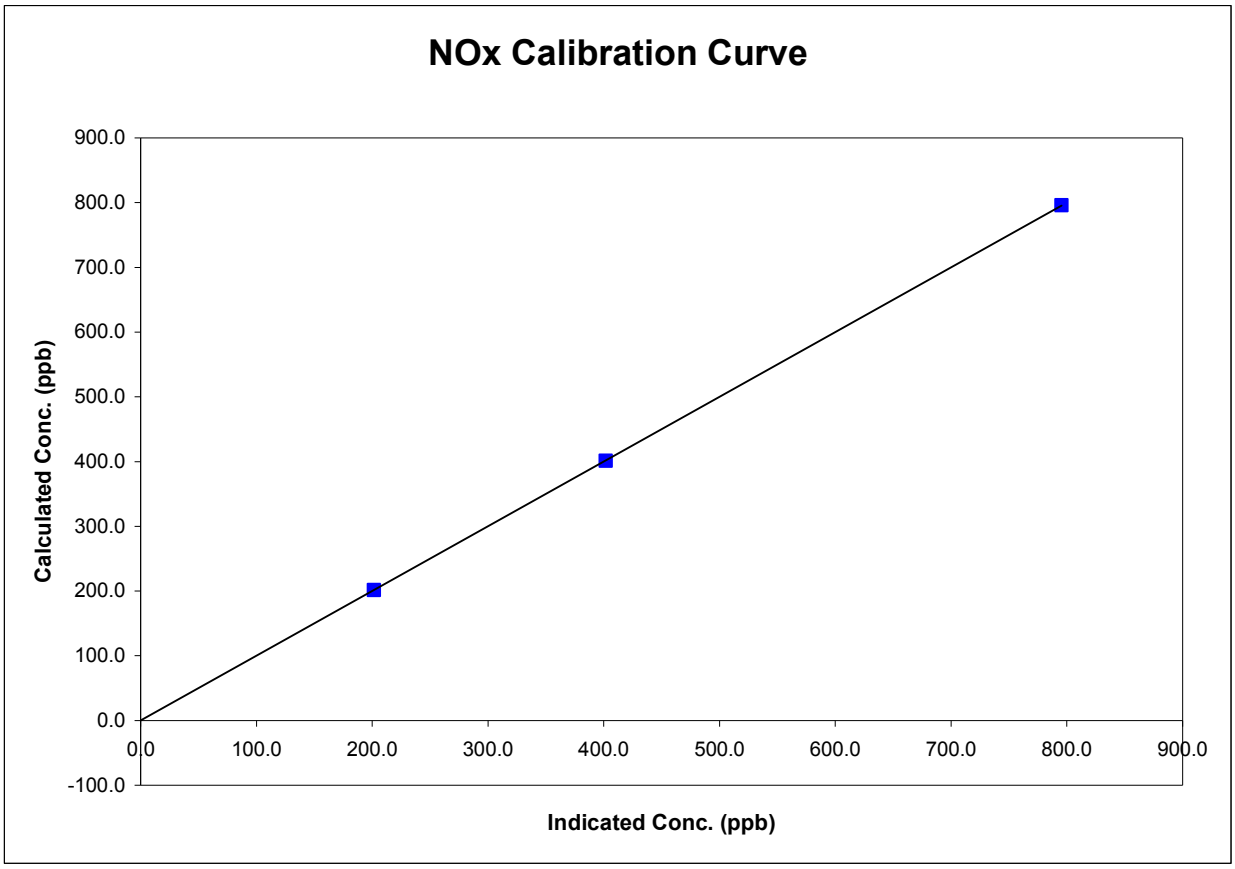
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 24, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:30	End Time (MST)	14:55
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		
795.7	795.4	1.0004	Correlation Coefficient	0.999998
401.2	401.8	0.9985		
201.5	201.5	1.0000	Slope	1.000025
			Intercept	-0.014692



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**

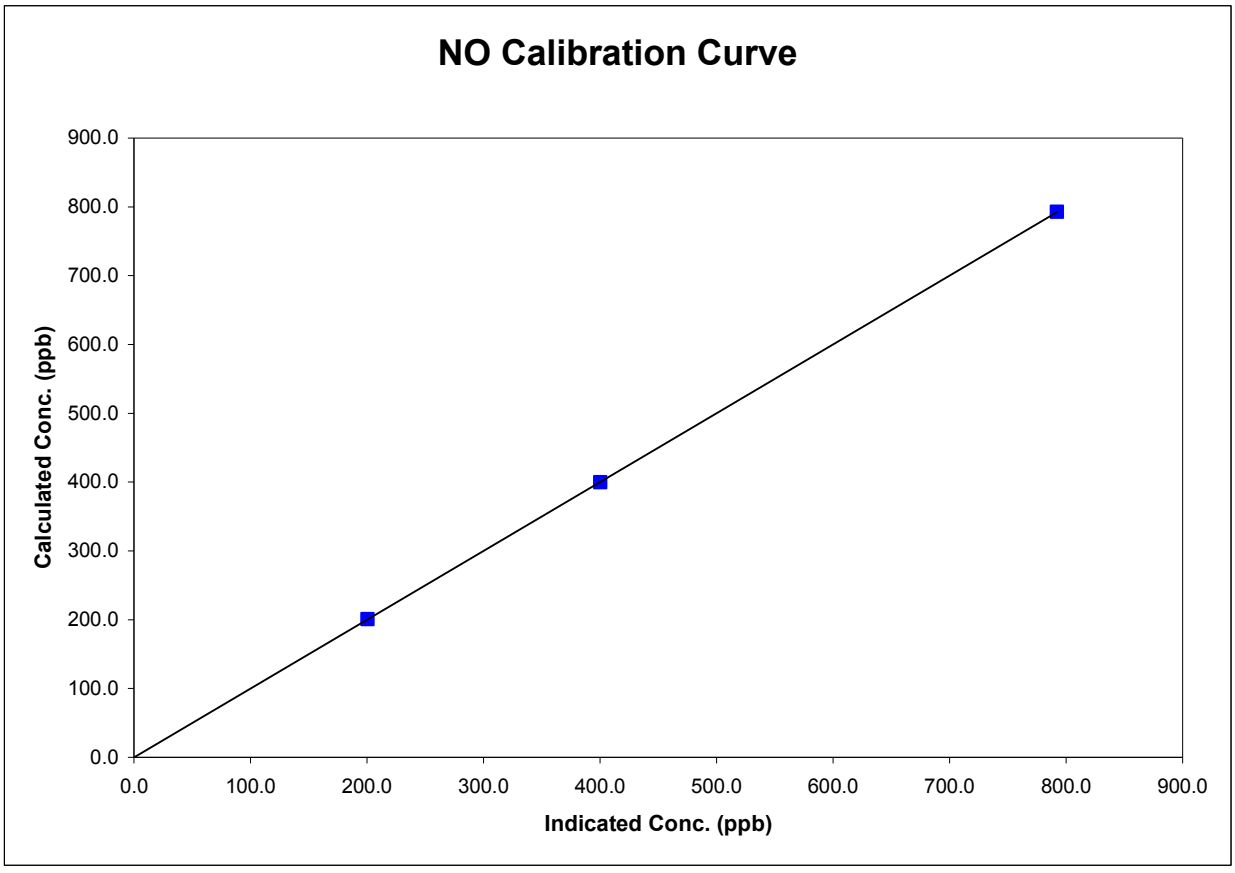
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 24, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:30	End Time (MST)	14:55
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
792.6	792.2	1.0005	Correlation Coefficient	0.999998
399.6	400.2	0.9986		
200.7	200.5	1.0011	Slope	0.999981
			Intercept	0.112771



Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **O3**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 25, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	11:20	End Time (MST)	15:05
Barometric Pressure	0.909 atm	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2977
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.034746	Calculated slope	0.988115
Calculated intercept	-1.688213	Calculated intercept	3.064112

Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	0.20	ppb	0.20	ppb
slope	1.03		1.11	
Lamp temp	70.9	mV	70.9	mV
Lamp Intensity A/B	85000/83500	mV	85100/83400	mV
Pressure	681.7	inches Hg	667.5	inches Hg
Flow A	749	ccm	740	ccm
Flow B	708	Deg C	699	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.5	N/A
4992	0.00	353.1	355.4	0.9935
4992	0.00	205.6	204.7	1.0042
4992	0.00	108.0	102.6	1.0525
4992	0.00	0.0	-0.5	As found zero
4992	0.00	353.1	327.8	As found span
			Average Correction Factor	1.0167

Calculated value of As Found Response: 338.0 ppm Percent Change of As Found: -4.3%

	before calibration		after calibration	
Auto zero	-2.2	ppb	2.6	ppb
Auto span	113.3	ppb	122.2	ppb

Notes: Adjusted span.
No zero adjustment

Calibration Performed By: Dawn Ewan

Calibration Summary

FOCUS AIR QUALITY MONITORING

Parameter **O3**

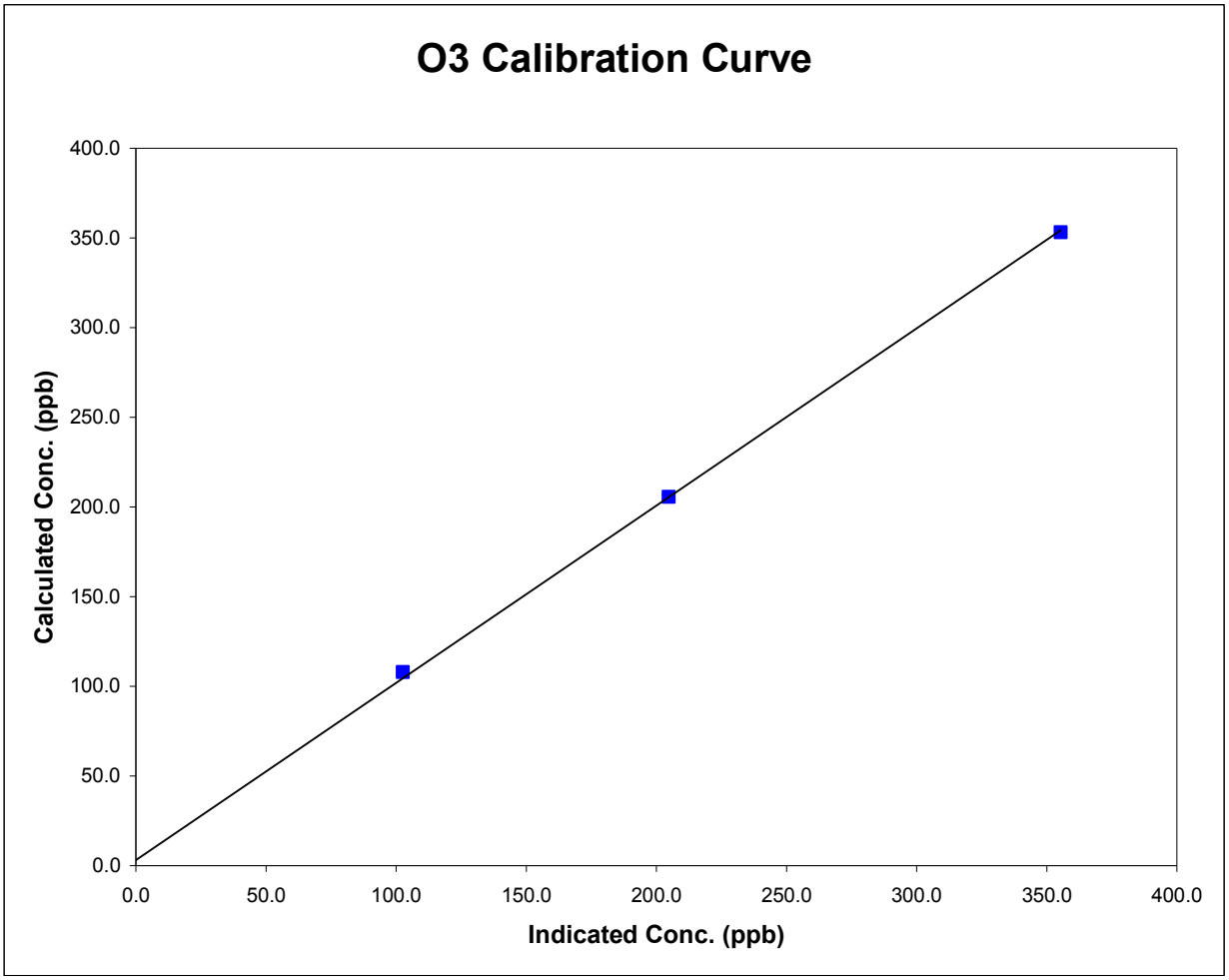
Air Monitoring Network **PASZA**

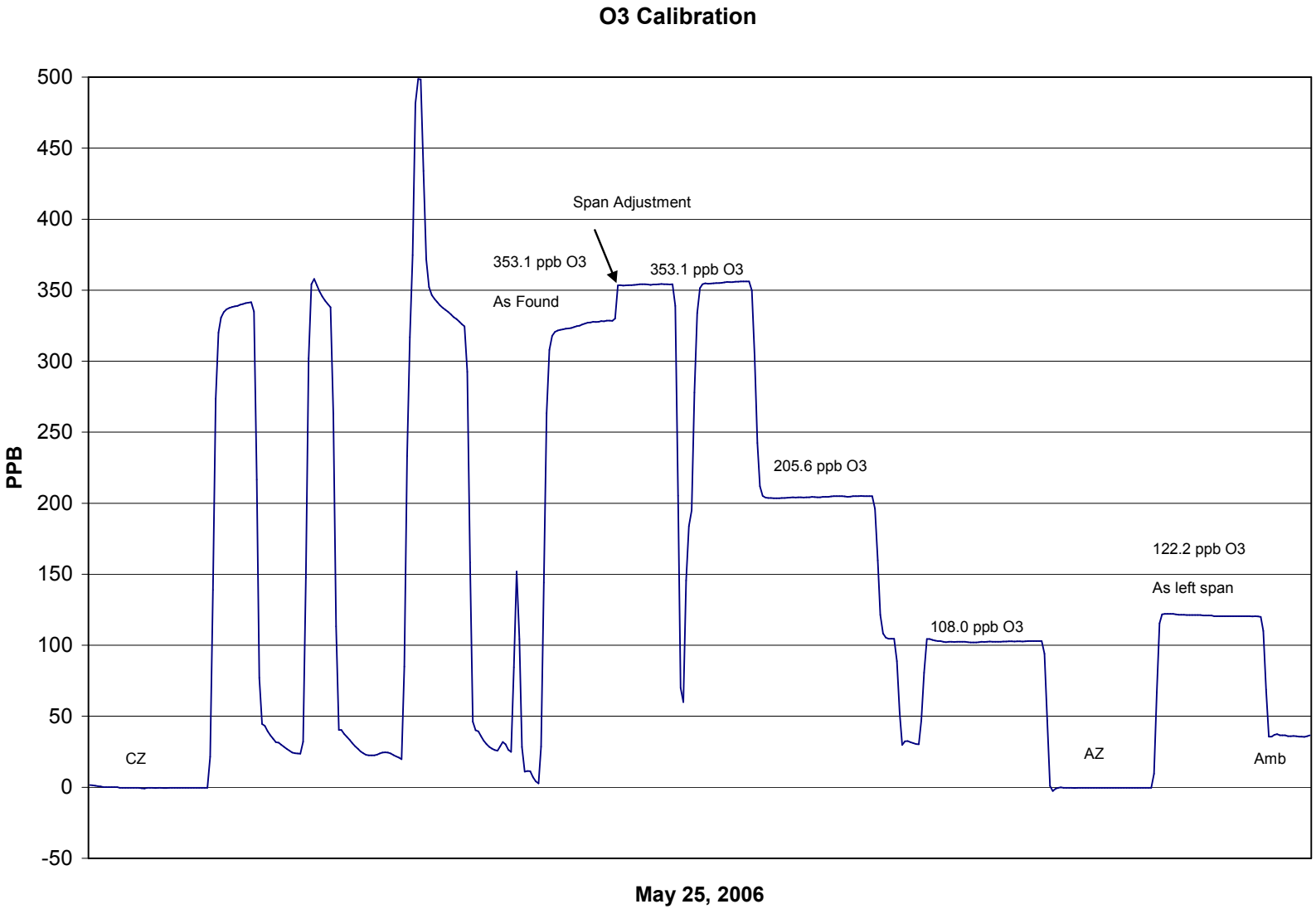
Station Information

Calibration Date	May 25, 2006	Previous Calibration	April 10, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:20	End Time (MST)	15:05
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	NA		
353.1	355.4	0.9935	Correlation Coefficient	0.999693
205.6	204.7	1.0042		
108.0	102.6	1.0525	Slope	0.988115
			Intercept	3.064112




O3 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
Span Adjustment
353.1 ppb O3
As Found
353.1 ppb O3
205.6 ppb O3
122.2 ppb O3
As left span
108.0 ppb O3
CZ
AZ
Amb
May 25, 2006

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **PM2.5**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	May 25, 2006	Previous Calibration	April 11, 2006
Station Number	4	Station Location	Beaverlodge
Reason:	Routine ☒	Install ☐	Removal ☐	Other: ☐
Start Time (MST)	11:15	End Time (MST)	14:30
Barometric Pressure	0.903 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	13.68	SLPM	13.68	SLPM
Filter Load	27	%	16	%
Ko Factor	14287		14287	
Temperature	13.4	Deg C	13.4	Deg C
Pressure	0.912	ATM	0.912	ATM

Calibration Data

Parameter	Set Point	Teom Reading (As Found)	Tolerance	Teom Reading (After Adjustments)
zero flow - main	0.0	0.01		0.01
zero flow - auxillary	0.0	0.01		0.01
flow recovery - main	45 - 60 Seconds	28.00	45 - 60 Seconds	28.00
flow recovery - aux	46 - 60 Seconds	40.00	46 - 60 Seconds	40.00
Temperature	measured	13.1	+/- 1.0 Deg C	13.1
Pressure	measured	0.912	+/- 1.5% Δ_{ATM}	0.912
Total Flow	16.67 SLPM	15.36		15.36
Auxillary Flow	13.67 SLPM	13.08	+/- 1.0 SLPM	13.08
Main Flow	3.0 SLPM	2.870	+/- 0.2 SLPM	2.870
Leak Check - main	0.0	-0.05	<0.15 SLPM	-0.05
Leak Check - aux	0.0	0.07	<0.15 SLPM	0.07
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: New filter installed.

Calibration Performed By: Dawn Ewan