



Air Quality Monitoring Network for July 2005



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Alberta Environment
Enforcement and Monitoring Division
11th Floor, Oxbridge Place
9820 - 106th Street
Edmonton, Alberta, T5K 2J6

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

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **July 2005**.

Continuous Monitoring: 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 with no exceedences recorded.

Alberta Environment conducted an audit of all the continuous stations from July 11 to 14. All parameters passed AENV criteria for annual audits.

Three of the four continuous monitoring stations operated without any problems. The TEOM PM_{2.5} monitor at the Smoky Heights station was down until July 5 when the main filter was changed. This is an extension of the same issue from July and was reported under reference number 163217. The letter sent to AENV describing the reported incident is attached.

At the Evergreen Park site, 30 hours of SO₂ data were invalidated from July 17 at 9:00 to July 18 at 15:00 due to excessive baseline drift. This was likely caused by a problem with the PMT cooler assembly. Investigation indicates the cooler is functioning normally now.

Passive Monitoring: 43 Stations throughout the PASZA zone:

There were two missing duplicate SO₂ passives from sites 44 and 45, in addition there was an entire site (#38) not collected this month due to a private road closure from an accident. A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from <0.1 ppb to 1.0 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.1 ppb to 4.5 ppb.
- Monthly average concentrations for O₃ passives ranged from 15.0 ppb to 28.5 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

September 8, 2005

Standards & Approvals Division
Alberta Environment
4th Floor, Oxbridge Place
9820 – 106 Street
Edmonton, Alberta T5K 2J6

ATTENTION: Director

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 163217

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 July for the PM_{2.5} parameter at the Smoky Heights School Air Monitoring Station located NE of Grande Prairie, Alberta. The station is owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 163217.

The cause of the non-compliance was due to a main filter that was not properly seated. This caused the monitor to read incorrectly until the problem was corrected. As a result of this issue the following actions have and will be taken:

1. A new filter was installed during the routine visit to the site on July 12.
2. Weekly site visits will be made until remote communications are established.
3. Remote access to data through a cell modem system will be installed, which will allow for alarms to identify potential problems or issues.

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

Jul-2005 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr				24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.3	0	0	12.5	Jul-29 07:00	8.7	SSW	2.1	Jul-29	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	1.0	0	0	11.5	Jul-13 19:00	25.1	W	3.2	Jul-13	96.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.3	0	0	4.2	Jul-14 03:00	21.9	W	1.0	Jul-01	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.1	0	0	3.2	Jul-08 19:00	8.1	S	0.6	Jul-22	100.0%
NO (ppb)			Henry Pirker	2.1	-	-	40.1	Jul-28 06:00	3.7	SSE	6.8	Jul-12	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	5.6	0	0	21.7	Jul-11 22:00	5.9	SSE	9.6	Jul-05	100.0%
NO _x (ppb)			Henry Pirker	7.7	-	-	51.7	Jul-28 06:00	3.7	SSE	15.7	Jul-12	100.0%
NO (ppb)			Beaverlodge	0.6	-	-	9.2	Jul-22 06:00	2.5	ENE	1.9	Jul-21	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	2.3	0	0	9.5	Jul-13 05:00	1.9	SSE	3.7	Jul-21	100.0%
NO _x (ppb)			Beaverlodge	3.1	-	-	18.2	Jul-22 06:00	2.5	ENE	6.2	Jul-21	100.0%
O ₃ (ppb)	82		Henry Pirker	18.7	0	-	42.8	Jul-28 14:00	11.7	SSW	26.2	Jul-18	100.0%
O ₃ (ppb) - 8-hr	65		Henry Pirker		0						38.8	Jul-21	
O ₃ (ppb)	82		Beaverlodge	24.4	0	-	50.8	Jul-22 12:00	12.8	ENE	33.8	Jul-22	100.0%
O ₃ (ppb) - 8-hr	65		Beaverlodge		0						45.5	Jul-21	
CO (ppm)	13		Henry Pirker	0.17	0	-	0.6	Jul-01 00:00	6.8	SSW	0.3	Jul-01	99.9%
CO (ppm) - 8-hr	5		Henry Pirker		0						0.5	Jul-01	
THC (ppm)			Henry Pirker	1.98	-	-	2.9	Jul-29 00:00	4.6	W	2.2	Jul-12	100.0%
TRS (ppb)			Henry Pirker	0.2	-	-	3.0	Jul-29 01:00	5.1	SSW	0.7	Jul-29	100.0%
TRS (ppb)			Evergreen Park	0.5	-	-	1.8	Jul-27 08:00	5.5	SE	0.6	Jul-27	100.0%
TRS (ppb)			Smoky Heights	0.5	-	-	1.4	Jul-11 00:00	4.6	WSW	0.7	Jul-29	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	2.6	0	0	13.8	Jul-08 09:00	4.8	NW	6.0	Jul-12	99.2%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	3.8	0	0	46.6	Jul-17 15:00	17.9	WSW	13.0	Jul-17	98.5%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	5.6	0	0	50.4	Jul-27 19:00	2.0	S	13.7	Jul-22	84.7%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	2.2	0	0	18.9	Jul-22 21:00	10.0	NNW	6.9	Jul-22	97.2%
RH (%)			Henry Pirker	66.9	-	-	-	-	-	-	-	-	100.0%
RH (%)			Beaverlodge	66.2	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Henry Pirker	241.3	-	-	-	-	-	-	-	-	99.9%
Temp (°C)			Henry Pirker	15.6	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Evergreen Park	14.9	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Smoky Heights	13.4	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Beaverlodge	14.8	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Henry Pirker	11.4	-	-	-	Jul-07 11:00	37.8	WSW	23.0	7-Jul	100.0%
WSPD v (km/hr)			Evergreen Park	8.6	-	-	-	Jul-07 12:00	30.7	W	18.9	7-Jul	100.0%
WSPD v (km/hr)			Smoky Heights	12.3	-	-	-	Jul-07 11:00	44.1	WSW	28.4	7-Jul	100.0%
WSPD v (km/hr)			Beaverlodge	9.8	-	-	-	38542.6	32.0	W	19.6	38540.0	100.0%
WSPD s (km/hr)			Henry Pirker	12.1	-	-	-	Jul-07 11:00	38.1	WSW	23.4	7-Jul	100.0%
WSPD s (km/hr)			Evergreen Park	9.1	-	-	-	Jul-07 12:00	31.3	W	19.4	7-Jul	100.0%
WSPD s (km/hr)			Smoky Heights	12.7	-	-	-	Jul-07 11:00	44.4	WSW	28.5	7-Jul	100.0%
WSPD s (km/hr)			Beaverlodge	10.0	-	-	-	Jul-09 14:00	32.0	W	19.9	7-Jul	100.0%
WDIR (Deg)			Henry Pirker	N	-	-	-	-	-	-	-	-	99.9%
WDIR (Deg)			Evergreen Park	N	-	-	-	-	-	-	-	-	100.0%
WDIR (Deg)			Smoky Heights	N	-	-	-	-	-	-	-	-	100.0%
WDIR (Deg)			Beaverlodge	N	-	-	-	-	-	-	-	-	100.0%

Note: ^a the draft 1-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

There were no general operational issues noted during the month.

Parameter	Make	Model	Notes
SO ₂	TECO	43	Calibrations were attempted on July 4 & 5 but were aborted both times. This was caused by an incorrect perm rate for SO ₂ only. The rate was corrected and the calibration successfully completed on July 14.
NOx/NO/NO ₂	TECO	42	No operational problems observed
O ₃	API	400	No operational problems observed
CO	TECO	48	No operational problems observed
THC	TEI	51-CLT	No operational problems observed
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	5 hours were removed due to excessive drift
RH	Met One	083D	No operational problems observed
AT	Met One	083D	No operational problems observed
SR	Met One	096-1	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA – Evergreen Park Station

General Station Issues

No general station issues were identified. A problem with the SO₂ analyzer is outlined below.

Parameter	Make	Model	Notes
SO ₂	API	100	30 hours of data were invalidated from July 17 at 9:00 to July 18 at 15:00 due to excessive baseline drift. This was likely caused by a problem with the PMT cooler assembly. Investigation indicates the cooler is functioning normally now.
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	11 hours were removed due to excessive drift
AT	Met One	083D	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA – Smoky Heights School Station

General Station Issues

Problems with the station air conditioner resulted in baseline adjustment for the SO₂, TRS and PM_{2.5} parameters.

Parameter	Make	Model	Notes
SO ₂	API	100A	No operational problems observed
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	Data was removed from July 1 to 5 due to a main filter that did not stabilize. This issue was carried over from the end of June. The filter was replaced on July 5 at 14:00.
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

There were no general operational issues noted during the month.

Parameter	Make	Model	Notes
SO ₂	API	100A	No operational problems observed
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	21 hours were removed due to excessive 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 - 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: July 1, 2005 to August 1, 2005

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:	703
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1-Jul-05	9	7	6	7	5	4	6	8	9	11	14	16	16	16	15	16	16	17	18	17	A	14	15	15	
2-Jul-05	16	15	14	12	11	11	12	12	12	12	12	13	12	12	12	11	10	9	10	A	9	8	8	8	
3-Jul-05	8	8	9	10	10	10	10	10	11	12	13	13	14	15	16	16	18	19	A	19	17	13	12	12	
4-Jul-05	11	11	10	9	6	6	6	7	10	13	17	20	12	11	11	11	11	11	11	10	8	5	6	5	
5-Jul-05	9	5	4	4	4	A	9	8	8	8	10	14	15	15	13	11	11	10	11	11	11	7	7	5	
6-Jul-05	4	4	5	4	4	A	2	3	4	6	10	11	11	14	15	14	14	14	13	11	12	12	11	11	
7-Jul-05	11	11	10	6	A	7	7	9	11	12	13	13	14	15	15	14	14	15	15	15	12	10	11	9	
8-Jul-05	9	5	7	A	6	4	5	7	10	11	10	12	16	18	19	18	18	17	16	17	16	19	16	14	
9-Jul-05	6	10	A	9	8	6	9	10	11	11	14	14	13	14	14	14	14	14	14	13	12	11	8	11	
10-Jul-05	10	A	9	8	7	7	8	10	11	12	12	12	12	13	13	13	13	13	12	10	7	5	6	7	
11-Jul-05	A	8	7	7	5	4	4	5	9	11	12	12	12	13	13	13	13	12	12	8	10	9	9	A	
12-Jul-05	4	8	3	3	5	8	7	10	11	10	8	10	15	19	16	16	16	16	10	17	16	12	8	A	10
13-Jul-05	8	8	8	8	5	4	5	5	7	A	A	A	A	A	12	13	12	12	12	12	12	12	13	12	
14-Jul-05	12	11	11	11	10	A	9	10	A	A	A	A	A	2	1	2	17	16	14	13	12	10	7	8	
15-Jul-05	7	7	7	8	6	A	4	5	7	7	9	11	13	16	18	19	17	17	16	15	10	6	4	8	
16-Jul-05	12	11	11	11	9	A	7	7	6	5	7	9	10	11	11	12	12	12	13	12	8	6	7	5	
17-Jul-05	6	5	5	5	A	4	4	6	7	8	10	11	12	13	13	12	12	13	12	11	11	10	8	8	20
18-Jul-05	19	13	10	A	6	5	5	9	12	13	14	15	17	17	16	16	17	20	16	16	14	11	10	10	
19-Jul-05	10	10	A	9	9	11	10	10	10	8	8	8	8	8	10	11	11	12	14	13	9	8	6	5	
20-Jul-05	4	A	4	2	2	3	4	7	9	8	10	14	15	16	14	12	14	13	14	12	11	8	7	6	
21-Jul-05	A	6	3	2	3	3	4	3	6	7	12	16	18	20	21	21	21	19	19	17	14	12	12	A	
22-Jul-05	8	7	7	4	5	3	7	7	9	12	17	19	21	18	16	15	13	13	12	8	8	7	A	6	
23-Jul-05	6	6	5	6	5	4	4	4	4	4	4	4	5	7	7	6	8	9	9	8	8	A	7	7	
24-Jul-05	5	4	4	3	2	2	2	4	5	6	8	9	10	11	11	11	11	12	12	10	A	7	7	5	
25-Jul-05	4	3	4	3	2	2	3	3	4	9	11	12	13	13	14	14	11	8	9	A	7	7	5	6	
26-Jul-05	5	5	4	3	4	3	3	3	5	4	5	6	7	9	10	12	12	12	A	9	9	6	5	4	
27-Jul-05	3	2	2	2	2	3	3	5	7	7	7	11	12	12	12	10	6	A	6	5	3	2	2	2	
28-Jul-05	2	2	1	2	2	3	4	6	4	6	9	11	10	18	21	19	A	15	15	15	12	8	9	8	
29-Jul-05	7	3	7	6	4	3	6	8	5	7	11	14	13	10	14	A	14	14	14	11	8	8	6	6	
30-Jul-05	8	6	7	7	7	6	7	7	8	11	12	14	14	14	A	14	11	11	10	9	9	7	5	5	
31-Jul-05	6	5	6	6	4	2	4	5	6	7	11	13	13	A	13	13	13	13	12	9	8	7	7	3	

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

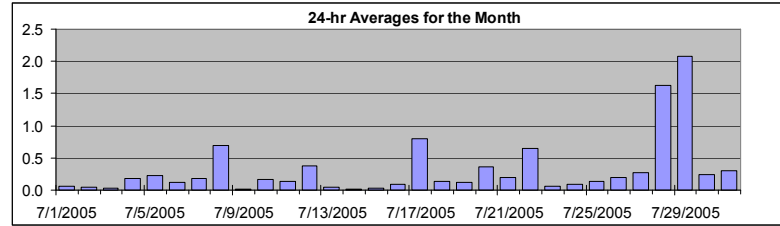
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Summary				
Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	12.5 ppb	29-Jul	7:00	8:00
Maximum 24-hr Average:	2.1 ppb	29-Jul		



AIC Time:	40 hrs	Operational Time:	692 hrs					
Calibration Time:	12 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	4.4	1.1	0.3	0.1	0.0	0.0	0.0	0.3 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
2-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.2
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.2
4-Jul-05	0	0	0	0	0	0	1	1	1	1	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
5-Jul-05	0	0	0	0	0	A	0	0	C	C	C	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
6-Jul-05	0	0	0	A	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Jul-05	0	A	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
8-Jul-05	A	0	0	A	0	0	1	1	1	1	0	1	0	0	0	0	0	0	2	2	2	1	0	A	0	0.7	2.3
9-Jul-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.1
10-Jul-05	0	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	1.9
11-Jul-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	A	0	0.1	0.4
12-Jul-05	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	A	0	0	0	0	0	0	0	A	0	0.4	1.1
13-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.0	0.3	
14-Jul-05	0	0	0	0	0	A	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
15-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
16-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
17-Jul-05	1	3	3	1	A	3	1	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.8	2.9
18-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
19-Jul-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
20-Jul-05	0	A	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0.4	1.2
21-Jul-05	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.6
22-Jul-05	0	0	0	0	0	0	0	1	1	1	2	2	2	1	1	1	1	0	0	0	0	0	0	A	0	0.7	2.5
23-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.2
24-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.3
25-Jul-05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.7
26-Jul-05	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0.2	0.6
27-Jul-05	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.9
28-Jul-05	0	0	0	1	1	1	1	6	7	3	1	0	0	0	0	0	0	A	0	0	0	1	5	5	3	1.6	7.2
29-Jul-05	1	1	1	6	4	1	9	12	2	1	1	1	4	1	0	A	0	0	0	0	0	0	0	1	2.1	12.5	
30-Jul-05	0	0	0	0	0	0	0	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.6
31-Jul-05	0	0	0	0	0	0	0	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
Hourly Avg	0.2	0.2	0.3	0.4	0.3	0.3	0.5	0.9	0.7	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2		
Hourly Max	0.9	2.5	2.9	5.9	4.4	2.7	9.0	12.5	7.2	3.0	2.0	2.5	3.9	1.1	0.7	0.5	0.6	1.6	2.3	1.7	1.4	4.8	4.6	2.9			

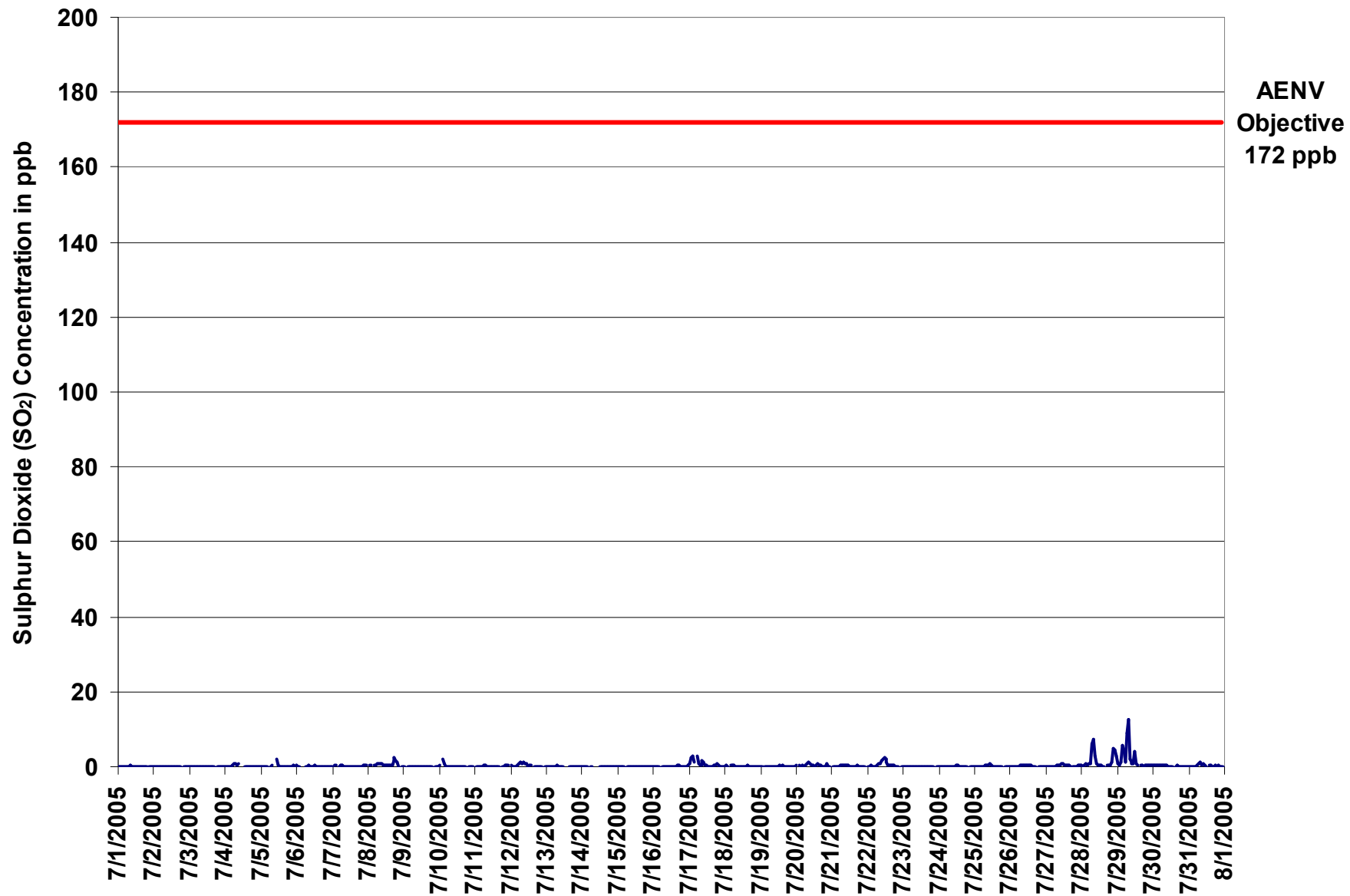


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

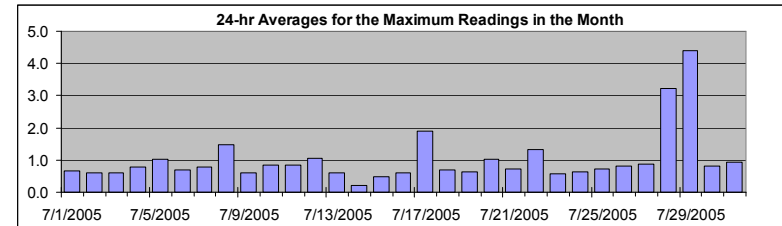
HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	21.9	ppb	29-Jul	6:00 7:00
Maximum 24-hr Value:	4.4	ppb	29-Jul	



AIC Time:	40 hrs	Operational Time:	692 hrs					
Calibration Time:	12 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	7.9	2.3	0.9	0.7	0.6	0.4	0.0	1.0 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-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9
2-Jul-05	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	A	1	0	0	1	0.6	0.9
3-Jul-05	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	0	0	1	A	1	1	1	1	1	0.6	0.9
4-Jul-05	1	1	1	1	1	1	2	1	2	1	C	C	C	0	1	1	1	1	1	0	1	1	1	1	0.8	1.8
5-Jul-05	1	1	0	1	1	A	1	1	C	C	C	6	1	1	1	1	1	1	1	1	1	1	1	1	1.0	6.0
6-Jul-05	1	1	1	A	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.7	1.0
7-Jul-05	1	A	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
8-Jul-05	A	1	1	A	1	1	2	2	2	1	1	1	1	1	1	1	1	3	3	3	3	1	A	1	1.5	3.1
9-Jul-05	1	0	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	0.6	0.8
10-Jul-05	2	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0	0	0.9	3.3
11-Jul-05	A	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	A	1	0	1	1	1	1	0.9	2.6
12-Jul-05	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	A	2	1	1	1	1	1	A	1	1.0	1.8
13-Jul-05	0	1	1	1	1	1	1	1	1	1	1	1	C	C	C	0	0	1	0	1	0	0	0	0	0.6	0.9
14-Jul-05	1	1	0	1	0	A	1	1	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
15-Jul-05	0	0	0	0	0	A	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.5	0.8
16-Jul-05	0	0	0	0	0	A	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0
17-Jul-05	3	6	4	3	A	6	1	1	1	4	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1.9	6.2
18-Jul-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.7	1.1
19-Jul-05	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
20-Jul-05	1	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1.0	2.4
21-Jul-05	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.1
22-Jul-05	1	1	1	1	1	1	1	1	2	2	3	4	3	2	1	1	1	1	1	1	1	1	A	1	1.3	3.9
23-Jul-05	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	A	0	1	0.6	0.8
24-Jul-05	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0	0	0.6	1.0
25-Jul-05	1	0	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	2.3
26-Jul-05	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.9
27-Jul-05	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.6
28-Jul-05	1	1	1	2	1	2	2	11	9	6	2	1	1	1	1	1	A	1	1	1	9	9	7	5	3.2	11.1
29-Jul-05	1	1	3	13	8	3	22	19	6	2	1	3	6	6	1	A	1	1	1	1	1	1	1	1	4.4	21.9
30-Jul-05	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	1.2
31-Jul-05	1	1	1	1	1	1	1	1	2	1	1	1	1	A	1	2	1	1	1	1	1	1	1	0	0.9	2.0
Hourly Avg	0.8	0.8	1.0	1.3	0.9	1.1	1.6	1.8	1.4	1.3	1.0	1.2	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	1.0	1.0	0.9	0.8		
Hourly Max	2.5	5.7	3.9	13.5	7.9	6.2	21.9	18.9	9.3	5.7	2.8	6.0	5.7	5.5	1.4	1.8	1.5	2.6	3.1	2.7	8.7	9.1	6.9	5.2		

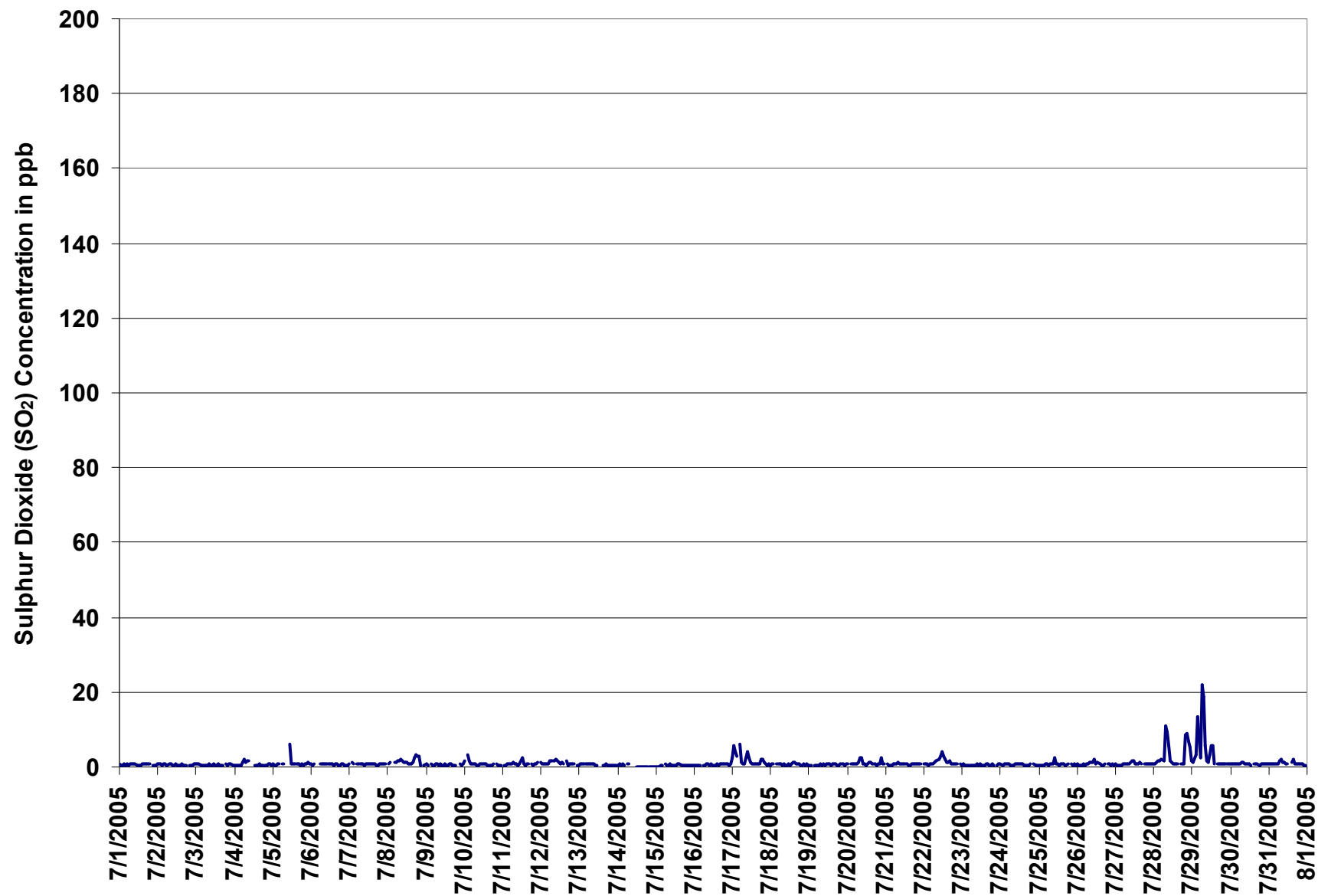
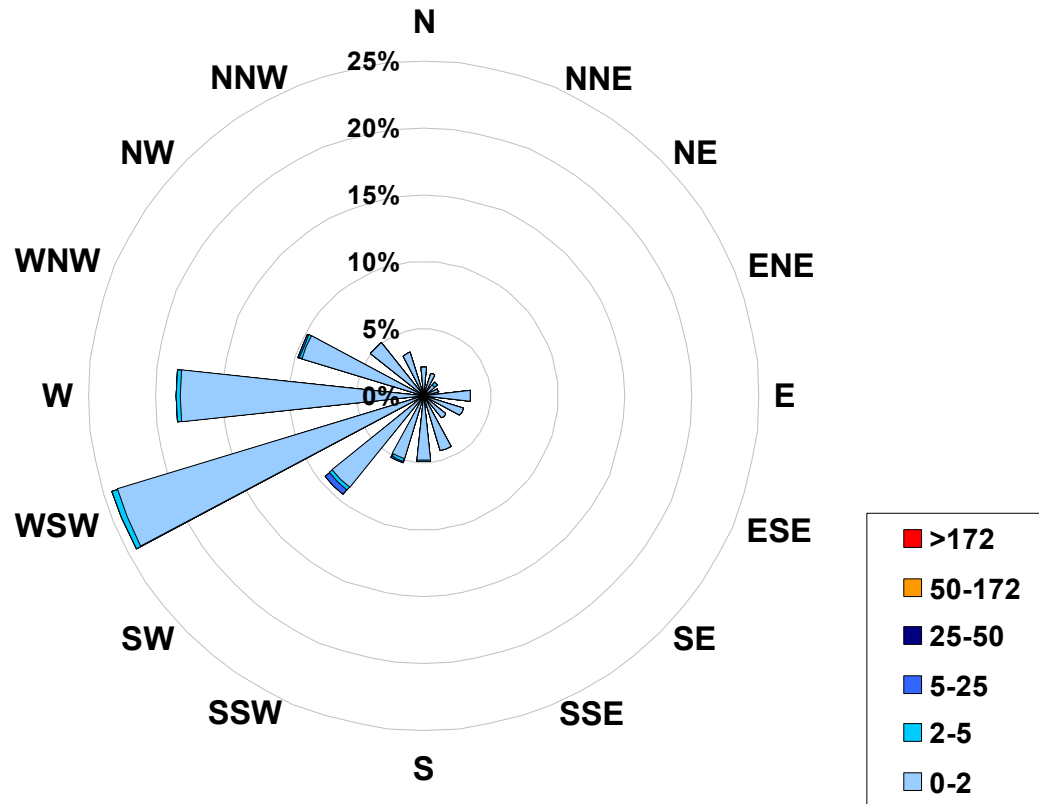


Figure 2. PASZA - Henry Pirker Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for July 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range	Frequency (hrs)		
0.0 < 2	675		
2 to 5	12		
5 to 25	5		
25 to 50	0		
50 to 172	0		
> 172	0		
Total Non-Zero Values			
			692

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

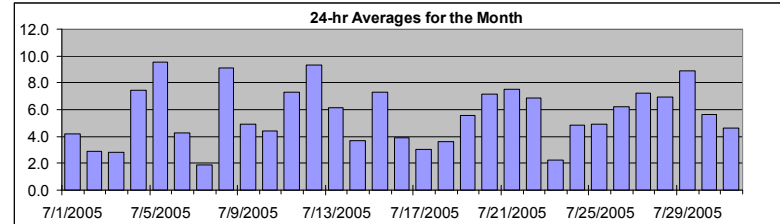
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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:	21.7 ppb	11-Jul	22:00	23:00
Maximum 24-hr Average:	9.6 ppb	5-Jul		



AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	19.3	14.3	7.9	4.7	2.4	1.2	0.0	5.6 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-05	8	7	10	7	8	8	6	4	3	3	2	2	1	2	2	2	2	2	1	2	A	6	4	3	4.2	10.0
2-Jul-05	3	3	3	4	5	6	3	2	2	2	2	1	2	2	1	2	2	2	2	A	4	5	5	5	2.9	5.9
3-Jul-05	5	3	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	A	5	3	9	8	5	2.8	8.8
4-Jul-05	6	5	6	7	9	14	13	16	10	4	9	16	3	2	2	2	2	3	5	7	14	10	11	7.4	16.3	
5-Jul-05	15	12	9	8	11	A	16	16	12	8	8	6	4	4	5	7	6	5	6	5	6	14	20	19	9.6	19.8
6-Jul-05	17	9	4	4	5	A	9	9	13	6	5	5	3	3	1	1	1	0	0	1	0	0	0	0	4.2	17.4
7-Jul-05	0	0	0	0	A	7	6	2	0	0	0	0	0	0	0	0	2	1	1	2	5	6	5	7	1.9	6.9
8-Jul-05	7	9	9	A	10	18	21	17	15	19	10	6	6	8	6	6	4	5	7	5	6	4	6	6	9.1	20.6
9-Jul-05	7	7	A	7	9	13	11	8	6	5	3	3	2	2	2	2	3	3	2	3	5	4	4	4	4.9	13.1
10-Jul-05	5	A	8	7	7	9	6	2	2	2	1	1	1	1	1	2	2	2	2	5	9	11	9	7	4.4	11.2
11-Jul-05	A	6	6	6	11	15	16	15	6	4	3	5	6	2	2	2	2	2	2	3	6	19	22	A	7.3	21.7
12-Jul-05	16	12	13	10	12	10	12	16	18	19	12	6	2	3	6	3	3	4	5	6	8	11	A	7	9.3	19.2
13-Jul-05	7	5	5	6	11	14	20	19	C	C	C	C	2	3	3	3	4	3	2	3	4	4	2	3	6.1	20.1
14-Jul-05	2	2	2	4	5	A	10	10	C	C	C	A	A	1	1	1	1	1	1	1	2	4	10	7	3.7	10.4
15-Jul-05	7	7	6	4	8	A	17	12	8	6	4	4	4	7	3	3	4	3	3	5	14	17	15	6	7.3	17.2
16-Jul-05	3	3	3	2	4	A	7	6	5	6	3	3	2	2	3	2	3	2	2	2	5	9	6	7	3.9	8.8
17-Jul-05	5	5	4	3	A	7	4	3	2	2	2	2	2	2	2	2	2	2	2	2	4	7	5	1	3.0	7.2
18-Jul-05	1	2	3	A	6	9	12	4	2	2	3	3	2	2	2	2	2	2	2	3	2	6	5	4	3.6	11.8
19-Jul-05	3	2	A	5	4	4	7	6	3	2	2	2	3	6	3	5	6	5	5	7	11	10	14	14	5.6	14.2
20-Jul-05	14	A	10	9	10	10	11	15	15	6	3	2	2	2	3	5	5	4	3	4	4	9	9	8	7.1	15.1
21-Jul-05	A	7	9	10	11	13	15	8	14	11	7	6	4	4	4	3	2	3	3	4	7	11	9	A	7.5	14.5
22-Jul-05	8	9	9	6	7	13	13	8	6	5	5	6	5	5	5	5	8	5	5	8	6	4	A	5	6.8	12.8
23-Jul-05	3	3	2	2	3	2	2	1	1	1	1	1	1	1	1	1	2	3	2	3	3	A	6	4	2.3	6.2
24-Jul-05	5	8	7	7	9	10	8	6	9	8	4	1	1	1	1	2	1	1	2	2	A	8	5	6	4.9	9.7
25-Jul-05	7	6	4	4	5	8	8	7	5	2	1	2	2	1	1	1	4	9	6	A	8	9	10	5	4.9	9.7
26-Jul-05	4	4	5	6	5	8	6	9	13	6	6	4	3	4	4	3	3	3	A	9	5	10	10	15	6.2	14.7
27-Jul-05	12	10	6	8	9	8	9	8	4	4	5	4	4	3	2	5	12	A	9	8	10	10	9	9	7.3	11.8
28-Jul-05	9	7	5	7	9	11	12	11	8	5	4	3	6	5	3	3	A	5	4	7	10	12	8	6	6.9	12.3
29-Jul-05	7	10	5	6	11	14	13	9	8	10	6	4	4	12	3	A	6	4	5	8	12	11	16	20	8.9	20.3
30-Jul-05	19	11	5	6	6	7	4	5	4	2	3	2	2	1	A	3	3	4	4	5	8	9	10	7	5.6	19.4
31-Jul-05	4	4	5	4	4	6	9	5	5	5	3	2	2	A	3	2	3	2	3	5	7	9	5	11	4.7	11.3
Hourly Avg	7.2	6.1	5.7	5.5	7.4	9.4	9.9	8.4	6.9	5.4	4.0	3.5	2.7	3.2	2.6	2.8	3.3	3.0	3.2	4.4	6.2	8.8	8.5	7.2		
Hourly Max	19.4	11.8	12.9	10.4	11.6	17.8	20.6	18.9	17.5	19.3	12.4	16.3	6.4	12.2	5.8	6.6	11.8	9.0	9.2	8.7	14.3	19.3	21.7	20.3		

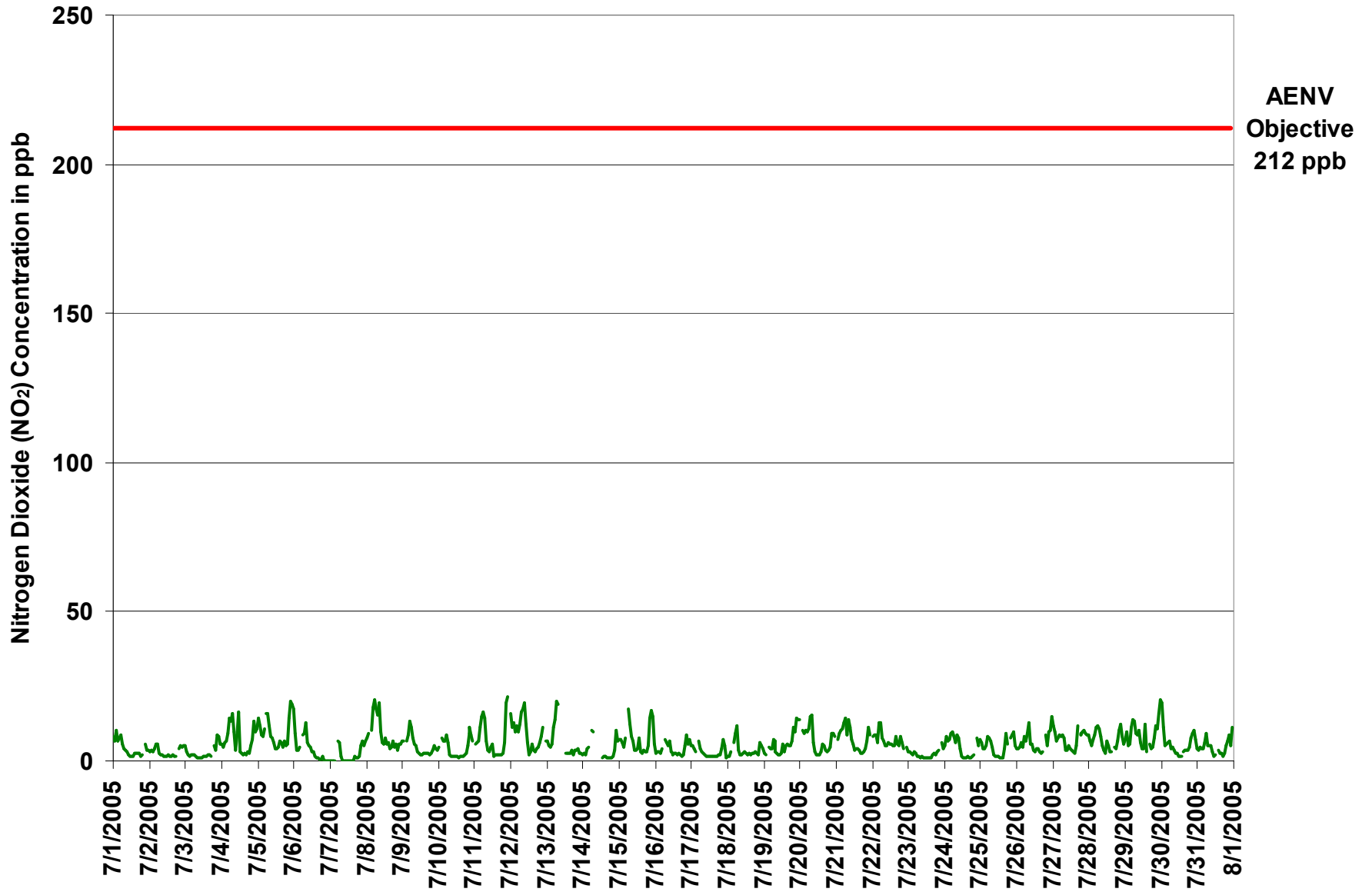


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

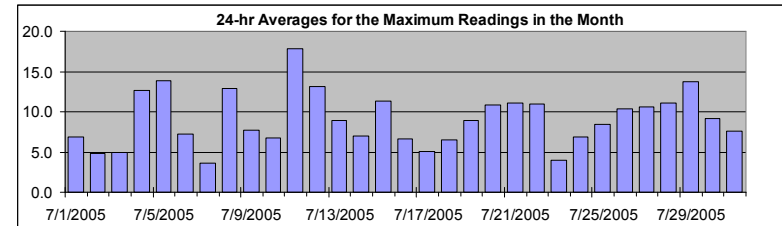
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	85.7	ppb	11-Jul	12:00 13:00
Maximum 24-hr Value:	17.9	ppb	11-Jul	

AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	25.3	20.8	11.8	7.9	4.5	2.5	1.0	9.1 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-Jul-05	18	13	13	11	10	13	9	6	5	5	4	4	3	4	4	4	4	5	2	4	A	12	5	4	6.9	17.8
2-Jul-05	5	6	5	6	7	13	4	3	3	4	3	3	3	3	3	4	3	3	A	6	7	7	7	7	4.9	13.0
3-Jul-05	6	5	2	2	3	4	3	2	2	2	2	2	2	3	4	4	6	3	A	8	5	16	14	14	5.0	15.6
4-Jul-05	11	7	11	10	11	19	19	21	17	9	31	31	10	4	5	5	5	7	5	7	14	18	14	15	12.7	31.2
5-Jul-05	23	22	11	12	15	A	19	18	14	11	10	10	6	9	8	11	13	8	10	7	9	24	25	24	13.8	24.5
6-Jul-05	21	15	4	5	7	A	13	12	21	8	8	8	7	6	4	4	3	3	5	2	3	1	1	1	7.2	20.9
7-Jul-05	0	0	1	0	A	11	9	5	1	0	0	0	2	1	1	3	4	3	3	4	8	9	7	9	3.6	10.9
8-Jul-05	10	13	12	A	14	22	28	25	20	23	16	9	10	11	8	9	6	8	10	8	9	6	11	8	12.9	27.9
9-Jul-05	9	9	A	9	15	19	16	10	8	8	7	4	3	4	5	4	4	5	4	5	7	8	7	6	7.8	19.4
10-Jul-05	7	A	11	9	9	11	11	3	3	2	3	3	2	3	3	3	4	4	8	12	15	15	8	6.7	15.4	
11-Jul-05	A	8	24	9	22	18	18	19	12	5	6	71	86	4	5	6	4	5	3	6	10	25	24	A	17.9	85.7
12-Jul-05	25	14	15	13	13	11	16	22	20	23	18	10	4	6	9	6	5	8	9	8	14	20	A	11	13.1	25.0
13-Jul-05	8	8	6	8	15	21	23	23	C	C	C	C	5	4	5	5	6	6	5	5	6	7	5	4	8.9	23.5
14-Jul-05	4	4	4	8	8	A	14	14	C	C	C	A	A	4	4	3	5	3	3	4	3	9	18	15	7.0	17.5
15-Jul-05	11	9	9	7	11	A	21	15	12	10	6	5	7	16	5	6	6	5	7	10	22	26	24	10	11.3	25.5
16-Jul-05	4	4	4	4	8	A	10	10	7	11	7	5	3	4	6	7	6	3	3	6	9	13	9	11	6.6	13.3
17-Jul-05	8	7	7	4	A	13	7	4	3	3	3	3	3	3	3	3	4	3	3	3	7	12	12	2	5.1	12.8
18-Jul-05	3	3	4	A	11	16	17	7	4	4	5	8	5	4	4	4	5	6	6	6	4	10	7	6	6.4	17.2
19-Jul-05	4	4	A	6	6	10	10	12	8	5	4	3	8	13	5	9	11	8	7	11	14	15	18	16	8.9	18.2
20-Jul-05	17	A	13	11	13	15	13	18	19	13	6	3	3	4	10	11	7	7	5	8	7	16	17	15	10.8	18.9
21-Jul-05	A	10	11	12	14	19	19	14	17	13	11	12	7	6	8	5	5	4	5	9	12	15	14	A	11.1	19.4
22-Jul-05	11	11	13	10	10	15	17	12	10	8	11	13	10	10	10	10	13	9	10	13	9	8	A	10	10.9	17.4
23-Jul-05	6	4	4	4	6	5	3	3	2	3	2	3	2	2	2	2	4	7	4	5	5	A	10	6	3.9	9.7
24-Jul-05	9	11	10	9	11	11	10	9	10	9	6	3	2	2	3	3	2	2	3	4	A	11	7	10	6.8	11.3
25-Jul-05	10	8	7	5	7	12	14	9	9	11	2	3	4	3	2	4	8	16	9	A	16	11	13	9	8.4	16.4
26-Jul-05	6	7	7	7	8	12	12	14	14	13	8	20	5	6	7	7	5	5	A	15	11	16	16	18	10.4	20.0
27-Jul-05	13	13	8	9	10	9	12	13	6	6	10	5	15	5	4	15	20	A	12	10	12	12	13	12	10.6	19.8
28-Jul-05	11	8	7	9	11	14	22	15	12	12	6	5	18	15	6	5	A	10	8	9	14	16	13	9	11.1	21.7
29-Jul-05	13	13	10	8	18	17	21	14	11	15	10	7	6	28	9	A	9	7	7	10	17	20	21	23	13.7	28.3
30-Jul-05	23	19	9	8	10	9	8	6	5	4	4	4	5	8	A	6	5	6	6	12	13	15	14	10	9.1	23.0
31-Jul-05	6	5	7	6	6	11	13	8	8	8	5	3	3	A	5	5	4	3	6	9	10	23	8	14	7.6	22.9
Hourly Avg	10.4	9.1	8.5	7.6	10.6	13.5	14.0	11.8	9.8	8.5	7.4	9.0	8.3	6.5	5.2	5.7	6.2	5.8	5.6	7.5	10.0	13.9	12.8	10.5		
Hourly Max	25.0	21.9	24.5	12.9	22.3	21.8	27.9	25.3	20.9	23.5	31.2	71.4	85.7	28.3	10.1	14.8	19.8	16.0	11.6	14.7	22.0	25.5	24.5	23.5		

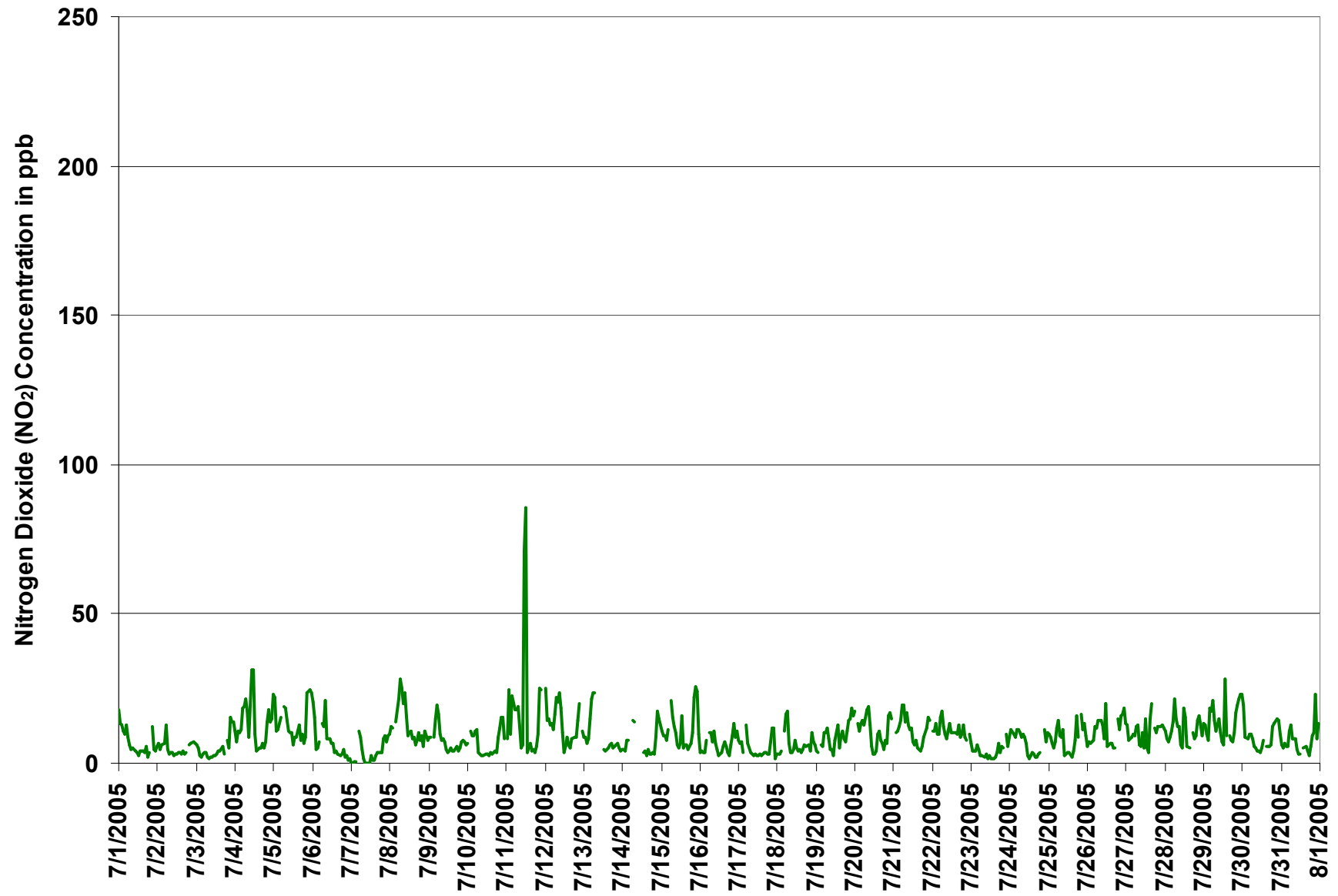
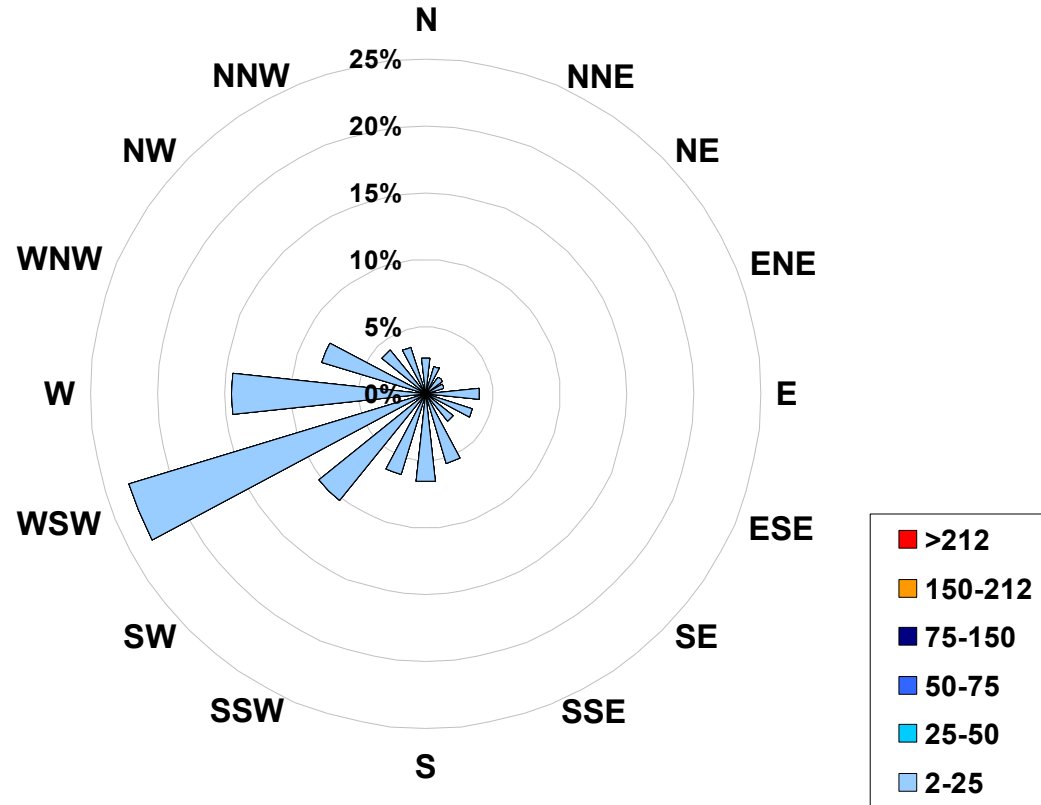


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for July 2005



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	699	
25	to 50	5	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values			704

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

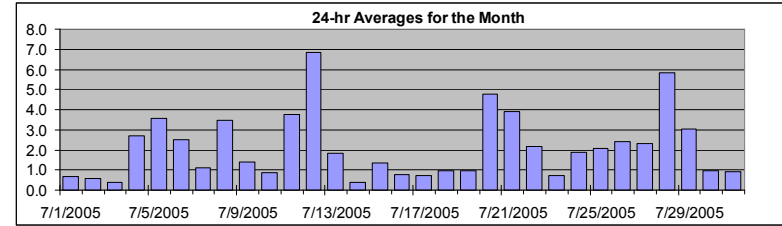
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	40.1	ppb	28-Jul	6:00 7:00
Maximum 24-hr Average:	6.8	ppb	12-Jul	



AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	22.3	9.8	1.6	0.8	0.3	0.0	0.0	2.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-05	0	0	0	0	0	2	2	2	2	1	1	0	0	0	1	1	1	1	0	0	A	0	0	0	0.7	2.4
2-Jul-05	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0.6	1.2
3-Jul-05	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	0	0	0.4	0.8
4-Jul-05	0	0	0	0	0	3	7	12	6	2	7	15	2	2	1	1	1	1	1	1	1	1	0	0	2.7	15.1
5-Jul-05	4	1	0	0	2	A	14	19	11	4	3	2	1	1	1	2	2	1	1	1	0	1	2	9	3.6	19.2
6-Jul-05	15	2	0	0	1	A	5	4	10	4	2	2	2	2	1	1	1	1	1	1	0	0	0	0	2.5	15.4
7-Jul-05	0	0	0	0	A	3	5	3	1	1	1	1	1	1	1	1	2	1	1	1	1	0	0	0	1.1	5.3
8-Jul-05	0	0	0	A	0	6	13	13	13	17	5	3	2	2	1	1	1	1	1	0	0	0	0	0	3.5	17.3
9-Jul-05	0	0	A	0	0	3	5	4	3	3	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1.4	5.0
10-Jul-05	0	A	0	0	0	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0	0.9	2.5
11-Jul-05	A	0	2	0	1	6	16	20	5	2	2	5	12	1	1	1	1	1	1	1	1	2	3	A	3.8	19.8
12-Jul-05	4	1	1	0	9	19	22	31	24	23	9	3	1	1	1	1	1	1	1	1	1	1	A	0	6.8	30.6
13-Jul-05	0	0	0	0	1	3	8	11	C	C	C	C	2	2	2	2	2	2	1	1	1	0	0	0	1.9	11.0
14-Jul-05	0	0	0	0	0	A	3	3	C	C	C	A	A	0	0	0	0	0	0	0	0	0	0	0	0.4	3.5
15-Jul-05	0	0	0	0	1	A	7	3	3	4	2	2	1	2	1	1	1	0	0	0	1	1	1	0	1.3	7.5
16-Jul-05	0	0	0	0	0	A	1	2	2	2	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0.8	2.2
17-Jul-05	0	0	0	0	A	1	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.7	1.9
18-Jul-05	0	0	0	A	0	2	8	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.9	8.3
19-Jul-05	0	0	A	0	0	1	2	2	1	1	1	1	1	3	2	2	2	1	1	1	1	0	0	0	1.0	3.3
20-Jul-05	0	A	0	1	4	10	21	33	30	4	1	1	1	1	0	1	1	0	0	0	0	0	0	0	4.8	32.9
21-Jul-05	A	0	0	0	2	18	19	10	18	9	4	2	1	1	1	0	0	0	0	0	0	0	0	A	3.9	19.1
22-Jul-05	0	0	1	0	0	9	16	5	3	2	2	2	1	1	1	1	2	1	1	1	1	1	A	0	2.2	16.0
23-Jul-05	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0.7	1.5
24-Jul-05	0	1	0	0	2	6	5	4	10	8	3	1	0	0	0	1	0	0	0	0	0	A	0	0	1.9	9.9
25-Jul-05	0	0	0	0	1	6	10	12	6	2	0	1	0	0	0	0	1	4	2	A	0	0	0	0	2.1	11.8
26-Jul-05	0	0	0	1	1	2	4	7	12	5	4	8	3	2	1	1	1	1	A	1	0	1	1	1	2.4	12.3
27-Jul-05	2	2	1	1	2	3	5	7	3	3	3	2	1	1	0	1	5	A	1	1	2	2	3	3	2.3	6.6
28-Jul-05	4	1	1	3	9	31	40	20	9	5	2	1	3	2	1	1	A	1	0	1	0	0	0	0	5.8	40.1
29-Jul-05	0	0	0	0	1	5	14	9	6	9	4	1	1	8	1	A	2	1	1	1	1	0	1	3	3.0	13.5
30-Jul-05	4	5	0	0	0	1	1	1	2	1	1	1	1	0	A	0	1	0	0	1	1	0	0	0	1.0	5.1
31-Jul-05	0	0	0	0	0	2	4	2	3	3	1	1	1	A	1	0	0	0	0	0	0	1	0	0	0.9	4.4
Hourly Avg	1.2	0.6	0.3	0.3	1.4	5.5	8.5	7.9	6.5	4.2	2.3	2.1	1.5	1.3	0.9	0.9	1.1	0.9	0.7	0.6	0.6	0.5	0.5	0.7		
Hourly Max	15.4	5.1	1.5	2.9	9.4	30.6	40.1	32.9	29.7	23.0	8.8	15.1	12.2	8.0	1.7	1.8	5.2	3.6	1.8	1.3	1.6	2.5	3.2	9.4		

Station: Henry Pirker
 Station Owner: PASZA

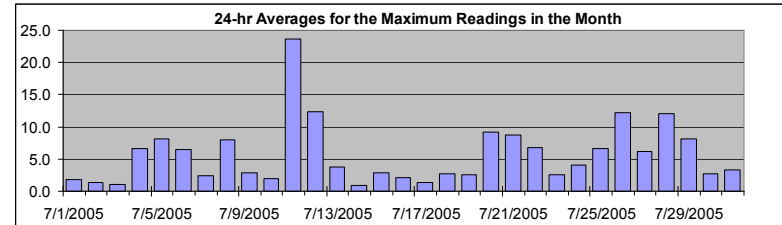
HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	246.0	ppb	11-Jul	12:00 13:00
Maximum 24-hr Value:	23.7	ppb	11-Jul	



AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	45.8	23.3	4.5	2.0	1.0	0.2	0.0	5.7 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-Jul-05	2	1	3	1	1	5	4	4	3	3	2	2	1	2	2	2	1	2	1	1	A	1	0	0	1.7	5.1
2-Jul-05	1	1	0	0	0	2	1	1	2	2	2	2	2	2	2	3	2	2	A	1	1	1	1	1	1.4	3.0
3-Jul-05	0	0	0	0	1	1	1	1	1	1	2	1	2	2	2	2	1	A	1	1	1	1	1	1	1.0	2.0
4-Jul-05	0	0	0	0	1	6	16	20	15	6	29	29	7	3	3	4	3	3	3	2	3	3	1	1	6.7	29.3
5-Jul-05	23	15	1	1	7	A	27	25	18	6	4	4	3	2	3	4	4	4	2	2	1	3	5	23	8.1	27.0
6-Jul-05	25	11	1	1	5	A	16	11	33	14	4	4	5	3	3	4	3	2	2	2	1	1	0	1	6.5	32.8
7-Jul-05	0	0	0	0	A	9	9	5	3	2	2	2	3	2	2	3	3	3	2	2	1	1	0	0	2.4	8.8
8-Jul-05	0	0	0	A	3	11	45	38	21	24	14	7	3	3	2	2	1	1	1	1	1	1	2	0	7.9	44.7
9-Jul-05	0	1	A	0	1	9	8	5	5	5	5	2	3	2	3	2	2	3	3	2	1	1	1	1	2.9	9.0
10-Jul-05	1	A	1	1	1	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	1	1.9	5.0
11-Jul-05	A	1	32	1	25	22	26	41	12	4	4	73	246	4	2	5	2	2	2	2	1	6	9	A	23.7	246.0
12-Jul-05	15	6	2	2	22	35	38	50	30	32	17	6	3	3	4	4	2	5	3	1	1	3	A	1	12.4	50.5
13-Jul-05	1	1	1	1	3	8	16	17	C	C	C	C	A	4	3	3	3	3	3	2	1	1	1	1	3.7	17.4
14-Jul-05	1	1	1	1	1	A	6	6	C	C	C	A	A	0	0	0	0	0	0	0	0	0	2	0	1.0	5.9
15-Jul-05	0	0	1	0	2	A	17	7	4	6	4	3	3	5	1	1	1	2	1	1	4	3	2	1	2.9	16.6
16-Jul-05	0	0	0	0	1	A	1	3	4	5	5	2	1	2	2	5	4	3	1	2	2	3	1	2	2.1	5.4
17-Jul-05	1	1	1	0	A	3	3	2	2	2	2	2	2	2	1	2	2	1	2	1	1	1	1	0	1.4	3.2
18-Jul-05	0	0	0	A	1	11	20	4	2	1	2	4	2	5	2	2	2	1	1	1	0	1	1	0	2.7	19.8
19-Jul-05	0	0	A	0	1	3	3	4	3	2	3	2	4	9	4	4	6	3	2	1	2	1	1	1	2.5	9.1
20-Jul-05	2	A	1	2	19	23	35	51	38	17	3	2	1	2	2	2	1	2	2	1	1	2	2	1	9.2	51.3
21-Jul-05	A	1	1	1	6	48	30	18	26	14	7	18	4	2	2	1	1	1	1	1	1	3	4	A	8.7	48.1
22-Jul-05	1	2	5	1	2	20	37	15	8	4	6	5	5	4	4	12	3	4	3	5	3	A	1	6.8	37.5	
23-Jul-05	5	1	1	0	1	3	2	2	2	5	2	4	2	2	2	4	6	2	3	3	A	2	3	2.6	6.1	
24-Jul-05	2	4	3	1	7	14	8	9	13	10	5	1	1	2	1	2	1	2	1	1	A	1	1	2	4.0	13.8
25-Jul-05	4	1	1	1	4	21	21	19	15	31	2	2	2	6	1	1	3	8	4	A	2	1	2	4	6.7	31.4
26-Jul-05	1	1	6	2	3	6	21	16	18	13	17	113	28	9	3	2	2	2	A	4	2	3	4	5	12.2	113.2
27-Jul-05	4	7	3	4	3	6	13	13	5	12	15	3	7	1	1	3	15	A	4	3	2	4	5	8	6.2	15.5
28-Jul-05	6	4	4	9	15	46	82	42	16	14	5	3	17	6	2	2	A	2	2	1	1	1	1	1	12.1	81.8
29-Jul-05	8	1	1	1	4	9	41	20	9	17	8	3	2	27	6	A	3	3	2	2	2	2	8	9	8.2	40.9
30-Jul-05	7	14	1	1	1	2	2	3	4	2	2	2	2	3	A	1	1	1	1	3	6	2	1	1	2.7	14.0
31-Jul-05	1	1	1	1	2	8	12	4	8	7	3	1	2	A	1	1	1	1	2	1	1	19	0	2	3.3	18.7
Hourly Avg	3.8	2.6	2.4	1.1	4.9	12.9	18.3	14.9	11.2	9.1	6.1	10.4	12.2	4.0	2.3	2.4	3.0	2.4	1.9	1.6	1.8	2.3	2.0	2.4		
Hourly Max	24.8	15.3	32.1	8.8	25.2	48.1	81.8	51.3	38.5	32.0	29.3	113.2	246.0	27.0	6.0	5.1	15.5	8.0	4.2	4.5	5.9	18.7	9.5	23.2		

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

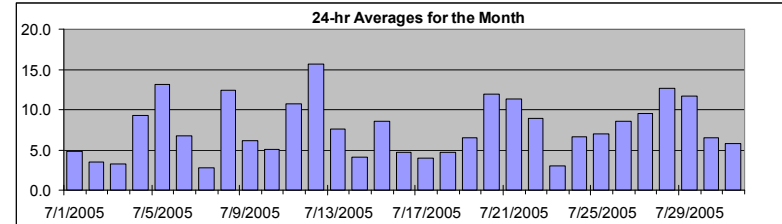
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	51.7	ppb	28-Jul	6:00 7:00
Maximum 24-hr Average:	15.7	ppb	12-Jul	

AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	36.4	23.0	9.4	5.5	3.2	1.6	0.0	7.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	9	7	10	7	8	10	8	6	5	4	2	2	2	2	3	3	3	3	1	2	A	6	4	3	4.8	10.2	
2-Jul-05	3	3	3	4	5	6	3	3	3	3	2	2	2	3	2	2	3	2	3	A	5	5	5	5	3.5	6.4	
3-Jul-05	5	3	2	2	2	3	3	2	2	2	2	2	2	2	2	3	3	2	A	6	3	9	8	6	3.2	9.0	
4-Jul-05	6	5	6	7	10	17	20	28	15	6	10	18	5	4	3	4	3	4	4	6	8	15	10	11	9.3	27.8	
5-Jul-05	18	13	9	8	12	A	30	35	23	12	10	8	5	5	6	8	8	6	8	6	6	15	22	28	13.1	34.9	
6-Jul-05	33	12	4	4	5	A	14	14	23	11	7	7	6	5	3	2	2	1	1	2	0	0	0	0	6.7	32.8	
7-Jul-05	0	0	0	0	A	10	11	5	0	0	0	0	0	0	0	1	4	2	2	2	6	7	5	7	2.8	11.4	
8-Jul-05	7	9	9	A	10	24	34	31	28	36	15	9	7	9	7	7	5	5	7	5	6	4	6	6	12.4	36.5	
9-Jul-05	7	7	A	6	9	16	16	11	8	8	4	4	3	3	4	4	4	4	3	3	4	6	4	4	6.2	16.1	
10-Jul-05	5	A	8	7	7	11	9	3	2	2	2	2	2	2	2	2	2	3	3	6	10	12	9	7	5.1	11.9	
11-Jul-05	A	6	8	6	12	21	32	34	11	5	4	9	18	2	3	2	2	3	2	3	6	21	25	A	10.7	34.1	
12-Jul-05	20	12	14	10	21	29	34	47	41	42	21	9	2	3	7	4	4	5	5	7	9	12	A	6	15.7	46.7	
13-Jul-05	7	5	5	6	12	16	28	29	C	C	C	C	4	4	4	4	5	5	3	4	4	5	3	3	7.6	29.5	
14-Jul-05	2	2	2	4	5	A	14	13	C	C	C	A	A	1	2	2	1	1	1	1	2	4	10	6	4.1	13.7	
15-Jul-05	7	7	6	4	8	A	24	15	10	10	6	5	5	9	4	3	4	4	3	6	15	17	16	6	8.5	24.0	
16-Jul-05	3	3	3	3	4	A	8	8	7	9	5	4	3	3	4	3	4	3	2	3	6	10	6	8	4.8	9.7	
17-Jul-05	5	5	5	3	A	8	6	5	4	3	3	3	2	3	2	2	3	3	3	3	5	8	5	1	3.9	8.2	
18-Jul-05	2	2	3	A	7	11	20	6	3	3	4	5	3	3	4	3	3	3	4	3	3	6	5	4	4.7	20.2	
19-Jul-05	3	2	A	5	4	5	9	8	4	3	3	3	3	9	5	7	8	7	6	8	12	9	14	13	6.5	14.0	
20-Jul-05	14	A	10	9	15	20	31	48	45	10	4	3	2	3	4	6	5	4	3	4	5	9	9	8	11.9	47.7	
21-Jul-05	A	7	10	10	12	30	34	18	32	20	11	8	5	5	5	4	3	3	3	5	7	11	9	A	11.4	33.6	
22-Jul-05	8	9	10	6	7	22	28	12	10	7	7	7	7	7	6	6	9	6	6	8	7	5	A	5	8.9	28.4	
23-Jul-05	3	3	2	2	4	3	2	2	2	3	2	3	2	2	2	2	3	4	3	4	4	A	6	4	3.0	6.5	
24-Jul-05	5	9	7	7	11	15	13	10	18	15	7	2	1	1	1	2	2	2	2	3	A	7	5	6	6.7	18.4	
25-Jul-05	7	6	4	4	6	14	18	18	11	4	2	2	2	2	1	1	5	12	7	A	8	9	10	6	7.0	18.4	
26-Jul-05	4	4	5	7	5	10	10	16	25	11	9	11	5	6	5	4	3	4	A	9	6	10	10	16	8.5	24.9	
27-Jul-05	13	12	7	9	10	10	14	14	6	7	8	5	5	4	3	6	17	A	10	9	11	13	12	12	9.5	16.8	
28-Jul-05	12	8	6	10	17	42	52	31	17	10	6	4	9	7	4	4	A	5	5	7	10	12	8	6	12.6	51.7	
29-Jul-05	7	10	5	6	12	18	26	19	14	19	10	5	5	20	4	A	7	5	5	9	13	11	16	23	11.7	26.4	
30-Jul-05	23	16	5	6	6	8	5	6	6	3	4	2	2	2	A	3	4	4	4	4	5	8	9	11	7	6.5	23.1
31-Jul-05	4	4	5	4	4	8	13	7	8	8	4	2	3	A	4	3	3	2	3	6	7	10	6	12	5.7	13.4	
Hourly Avg	8.4	6.6	5.9	5.7	8.7	14.8	18.3	16.2	13.3	9.5	6.0	5.0	4.1	4.4	3.5	3.7	4.4	3.9	3.9	4.9	6.7	9.2	8.9	7.9			
Hourly Max	32.8	16.2	13.5	10.4	20.6	41.7	51.7	47.7	44.6	41.8	20.8	18.4	17.6	20.0	6.6	8.4	16.8	12.5	10.4	9.5	15.1	20.9	24.5	28.5			

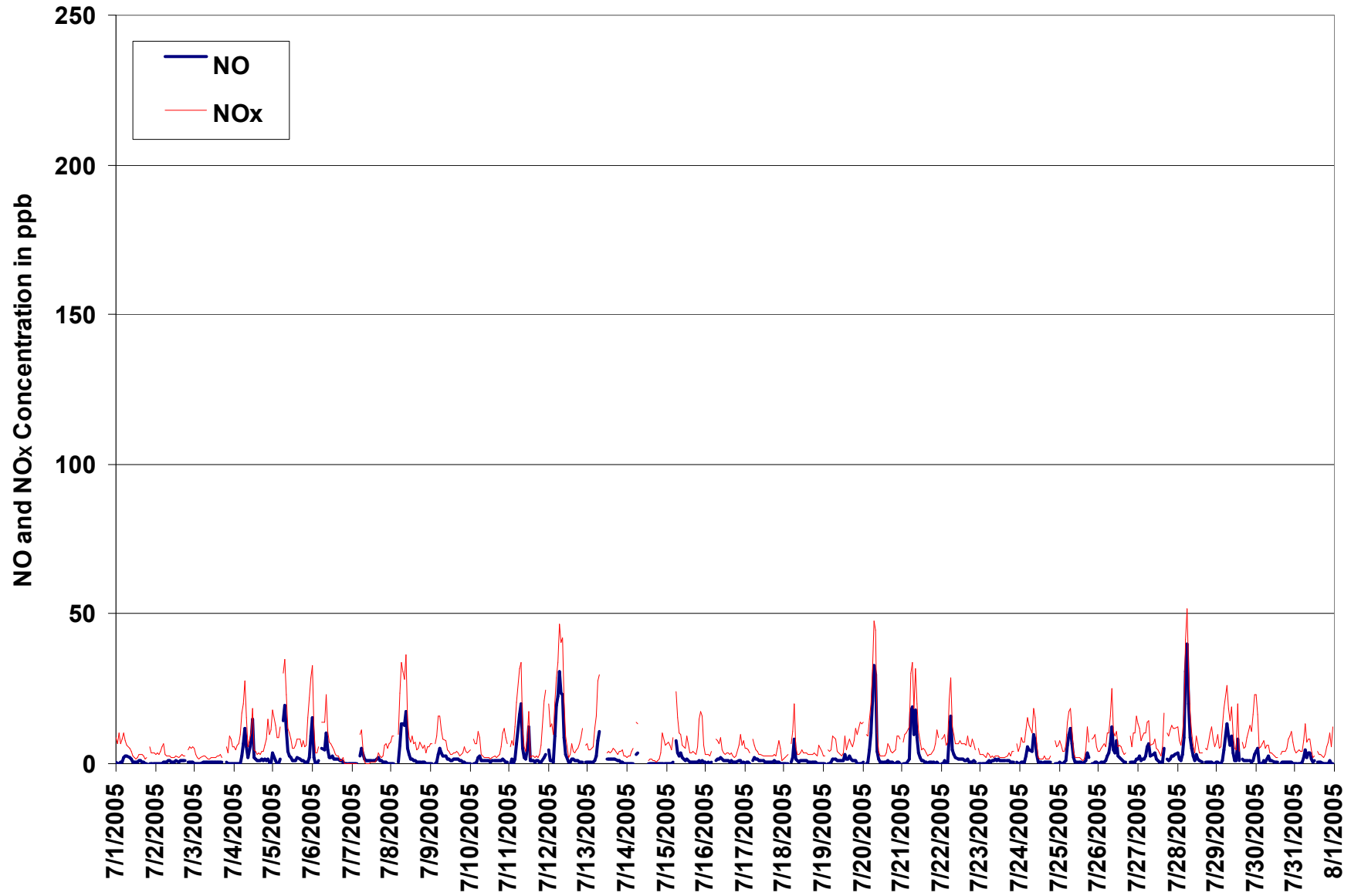


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

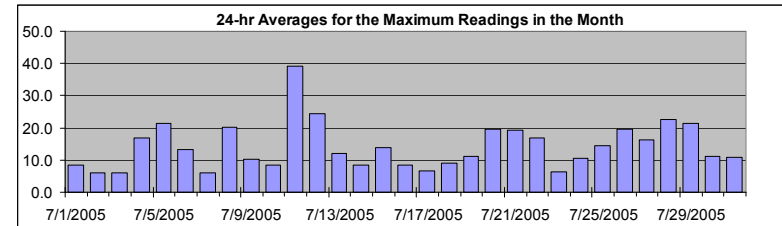
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	331.9	ppb	11-Jul	12:00 13:00
Maximum 24-hr Value:	39.2	ppb	11-Jul	

AIC Time:	33 hrs	Operational Time:	704 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	64.1	41.5	16.0	9.7	6.1	3.8	1.5	14.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-05	20	14	16	12	11	17	13	10	7	8	6	5	4	5	6	5	4	7	2	4	A	13	5	4	8.4	19.8
2-Jul-05	6	7	4	6	7	14	5	4	5	5	4	5	4	5	5	5	7	5	5	A	7	7	8	7	6.1	14.5
3-Jul-05	6	5	2	3	3	4	5	3	3	3	3	4	4	5	6	6	7	4	A	8	5	16	14	14	5.9	16.0
4-Jul-05	11	7	11	10	12	25	35	42	33	15	33	33	15	7	7	8	9	10	8	9	18	21	15	16	17.0	41.7
5-Jul-05	45	37	11	12	21	A	46	43	32	16	14	14	9	10	11	14	17	11	11	8	9	27	30	43	21.5	46.2
6-Jul-05	43	26	5	7	12	A	28	23	50	22	12	11	12	10	7	7	6	4	5	6	2	3	1	1	13.3	50.5
7-Jul-05	0	0	1	1	A	20	17	10	5	2	2	2	5	3	3	6	7	6	5	5	9	10	8	9	5.9	20.2
8-Jul-05	10	13	11	A	16	33	71	64	41	48	30	15	13	14	10	10	7	9	11	8	10	6	11	8	20.3	70.6
9-Jul-05	9	9	A	9	16	28	23	14	12	12	12	7	6	6	9	7	7	8	7	7	8	9	7	7	10.3	28.2
10-Jul-05	6	A	10	10	9	15	16	5	5	4	4	5	5	4	5	5	5	6	5	10	15	17	16	8	8.3	16.6
11-Jul-05	A	8	56	9	47	39	42	59	24	8	10	104	332	7	7	11	6	6	5	7	10	30	32	A	39.2	331.9
12-Jul-05	39	19	16	14	32	45	53	68	50	54	34	16	6	7	12	9	7	11	11	9	15	22	A	11	24.3	67.6
13-Jul-05	9	8	7	8	17	29	39	40	C	C	C	C	8	7	7	8	9	10	8	7	7	8	5	4	12.2	40.0
14-Jul-05	4	4	4	9	8	A	19	18	C	C	C	A	A	6	6	4	7	4	4	5	4	10	21	15	8.5	20.6
15-Jul-05	11	9	10	7	12	A	37	22	16	16	10	8	9	21	6	7	7	5	7	11	23	28	25	10	13.9	36.5
16-Jul-05	4	4	4	3	9	A	11	12	12	16	11	6	4	5	7	12	8	6	4	7	10	16	9	12	8.5	16.3
17-Jul-05	8	8	8	4	A	15	10	6	5	4	5	4	4	5	4	5	6	5	5	3	8	13	13	1	6.5	15.2
18-Jul-05	3	3	5	A	12	27	37	11	5	5	6	12	7	9	6	6	6	7	6	7	4	11	8	7	9.1	36.7
19-Jul-05	4	4	A	6	6	13	13	16	12	7	8	4	11	21	9	13	16	11	8	12	16	14	19	16	11.2	21.4
20-Jul-05	19	A	13	12	32	38	48	64	57	29	9	5	4	5	12	12	9	8	6	9	8	18	19	15	19.4	64.2
21-Jul-05	A	12	12	13	19	67	49	31	43	26	16	30	11	8	10	6	6	5	6	9	13	16	18	A	19.3	66.8
22-Jul-05	12	12	18	10	11	35	53	27	16	12	16	18	13	15	14	12	21	11	13	14	14	10	A	10	16.8	53.4
23-Jul-05	11	5	4	4	7	7	4	5	4	8	4	7	4	4	3	4	8	13	5	8	8	A	10	9	6.2	12.9
24-Jul-05	10	15	12	10	18	24	18	17	23	19	12	4	2	5	5	4	3	4	4	4	A	11	7	12	10.6	23.6
25-Jul-05	12	8	7	6	11	31	35	27	23	43	4	5	5	8	3	5	10	24	13	A	18	12	14	13	14.6	42.8
26-Jul-05	6	8	11	9	11	18	32	31	32	26	24	87	23	12	10	9	7	6	A	19	13	17	19	21	19.6	86.5
27-Jul-05	16	19	10	13	12	14	25	26	11	14	25	7	21	6	5	18	35	A	16	12	14	16	18	20	16.2	35.1
28-Jul-05	17	10	10	17	23	59	103	54	28	26	11	8	34	21	7	6	A	11	9	10	15	16	13	10	22.5	102.8
29-Jul-05	21	13	10	8	22	27	61	34	18	32	18	10	8	55	15	A	12	10	8	11	18	22	29	31	21.4	60.6
30-Jul-05	29	32	10	8	10	11	10	8	9	6	6	5	7	11	A	6	6	7	7	14	16	16	15	10	11.2	31.6
31-Jul-05	7	5	7	6	7	17	22	12	17	15	7	4	5	A	6	7	5	4	8	10	11	42	8	16	10.8	42.0
Hourly Avg	13.7	11.2	10.5	8.4	15.0	25.9	31.6	26.0	20.6	17.2	12.3	15.3	19.8	10.2	7.4	8.0	9.0	7.9	7.4	8.7	11.4	15.8	14.3	12.3		
Hourly Max	45.0	37.0	56.2	16.9	47.1	66.8	102.8	67.6	56.9	54.1	33.6	104.2	331.9	54.8	15.4	17.7	35.1	23.9	15.6	19.0	23.5	42.0	32.1	42.5		

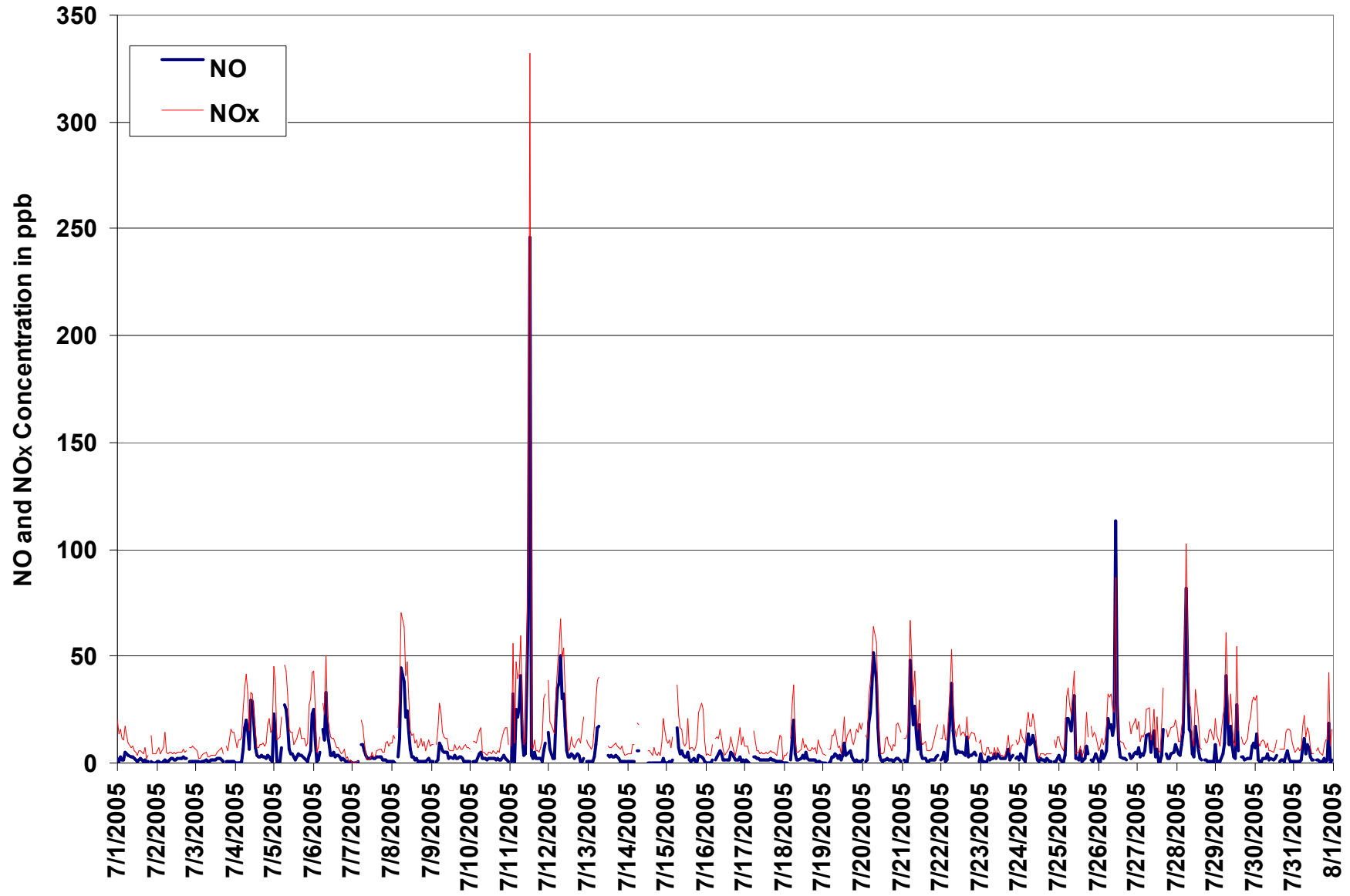


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

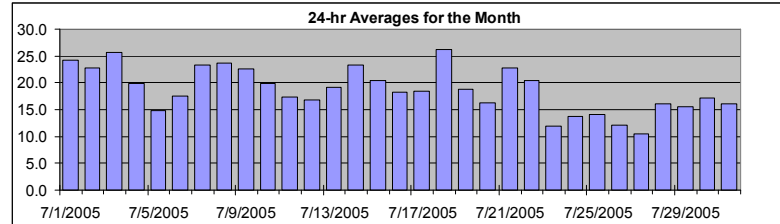
Monitoring Dates: July 1, 2005 to August 1, 2005

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	42.8 ppb	28-Jul	14:00 15:00
Maximum 24-hr Average:	26.2 ppb	18-Jul	

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
	39.5	33.9	25.1	19.5	11.6	3.4	1.1	18.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-05	18	15	12	13	10	8	12	15	19	22	28	32	33	32	31	33	33	33	35	35	A	28	30	30	24.2	35.4
2-Jul-05	33	30	28	25	22	22	23	24	24	24	24	25	25	25	24	22	19	19	20	A	18	16	16	16	22.7	32.6
3-Jul-05	15	16	19	20	21	20	19	20	22	24	26	27	28	30	32	33	36	38	A	37	34	26	24	24	25.7	37.7
4-Jul-05	22	22	21	17	13	12	13	13	20	25	34	40	24	23	22	22	22	21	22	20	17	9	12	10	19.9	39.7
5-Jul-05	5	6	7	7	4	A	2	4	9	15	21	28	30	29	27	22	21	21	22	22	22	13	3	2	14.9	30.4
6-Jul-05	0	7	11	9	7	A	4	4	5	11	19	21	22	28	30	29	28	28	26	22	23	23	22	22	17.6	29.8
7-Jul-05	22	22	21	13	A	14	14	18	22	24	25	26	27	29	29	28	28	29	30	29	24	20	21	19	23.3	29.7
8-Jul-05	17	11	13	A	13	4	6	9	10	10	21	23	32	36	37	35	37	34	31	35	33	38	32	28	23.7	37.9
9-Jul-05	13	20	A	18	16	12	17	20	21	21	28	29	27	28	27	27	28	28	28	27	25	22	15	22	22.5	28.7
10-Jul-05	21	A	17	16	14	13	17	20	22	23	24	25	25	26	26	26	26	26	24	20	10	10	13	14	19.8	26.0
11-Jul-05	A	16	14	14	9	6	4	9	18	22	24	25	24	25	25	25	25	25	24	15	21	7	3	A	17.3	25.4
12-Jul-05	5	4	5	6	2	1	3	5	6	7	13	19	30	38	32	31	32	21	34	31	24	17	A	20	16.8	38.3
13-Jul-05	16	17	17	15	9	9	5	8	14	19	23	C	C	C	C	A	33	32	28	27	24	21	14	17	19.1	25.5
14-Jul-05	24	23	23	22	21	A	17	19	23	25	26	25	C	C	C	A	33	32	28	27	24	21	14	17	23.4	33.2
15-Jul-05	15	13	13	16	12	A	4	9	14	14	18	22	27	32	37	38	34	34	33	30	19	12	7	17	20.5	38.0
16-Jul-05	23	21	21	21	17	A	15	13	11	9	13	19	20	22	23	24	23	24	26	23	17	12	14	10	18.3	25.7
17-Jul-05	11	10	10	9	A	8	9	11	13	17	20	22	23	26	25	25	26	24	22	22	20	16	16	40	18.4	39.6
18-Jul-05	38	27	21	A	12	10	9	18	24	27	29	30	33	34	32	31	35	39	33	31	29	21	21	19	26.2	39.1
19-Jul-05	20	19	A	18	18	21	21	20	19	15	16	16	16	16	20	21	21	24	27	27	17	15	12	11	18.8	27.2
20-Jul-05	7	A	8	4	1	0	1	2	5	15	21	27	30	31	29	25	27	26	28	25	21	15	14	13	16.3	31.3
21-Jul-05	A	11	6	4	3	2	3	7	9	15	25	33	37	39	42	42	41	39	37	34	28	24	24	A	22.8	42.0
22-Jul-05	17	14	13	7	9	3	6	14	19	24	34	39	41	36	32	30	27	27	25	16	14	13	A	12	20.4	41.2
23-Jul-05	12	11	9	11	10	8	8	7	9	9	8	9	11	13	14	13	16	17	17	16	16	A	15	14	11.9	17.4
24-Jul-05	10	7	7	6	2	2	4	8	9	13	16	19	21	21	22	22	23	24	23	20	A	14	13	10	13.7	23.8
25-Jul-05	7	6	8	6	5	2	1	5	8	17	22	24	25	26	27	28	22	17	19	A	14	14	10	11	14.1	27.6
26-Jul-05	10	9	8	6	7	5	5	4	3	8	10	12	14	17	20	24	25	24	A	18	19	13	11	4	12.0	24.6
27-Jul-05	2	2	4	3	3	5	7	9	13	13	14	21	23	24	25	21	13	A	12	9	7	3	3	2	10.4	24.8
28-Jul-05	1	1	3	1	0	0	1	5	7	12	18	22	21	35	43	38	A	30	31	30	23	17	18	16	16.2	42.8
29-Jul-05	15	7	13	11	7	4	5	6	7	13	22	28	26	20	27	A	27	28	27	22	15	16	7	3	15.5	27.8
30-Jul-05	1	6	14	14	14	12	14	14	15	21	24	28	27	28	A	27	23	23	19	18	17	15	10	10	17.2	27.6
31-Jul-05	11	11	11	13	8	4	6	11	12	14	21	25	27	A	27	27	25	25	24	18	16	13	13	6	16.0	26.9
Hourly Avg	14.2	13.3	13.0	11.9	10.0	7.9	8.9	11.3	13.9	17.1	21.5	24.6	25.8	27.4	27.9	27.4	26.7	26.7	25.9	24.3	20.4	17.0	15.1	15.4		
Hourly Max	38.0	30.1	28.3	24.7	22.3	21.8	23.3	24.2	24.4	26.9	34.3	39.7	41.2	39.5	42.8	42.0	41.2	39.1	37.0	37.3	33.8	37.9	32.3	39.6		

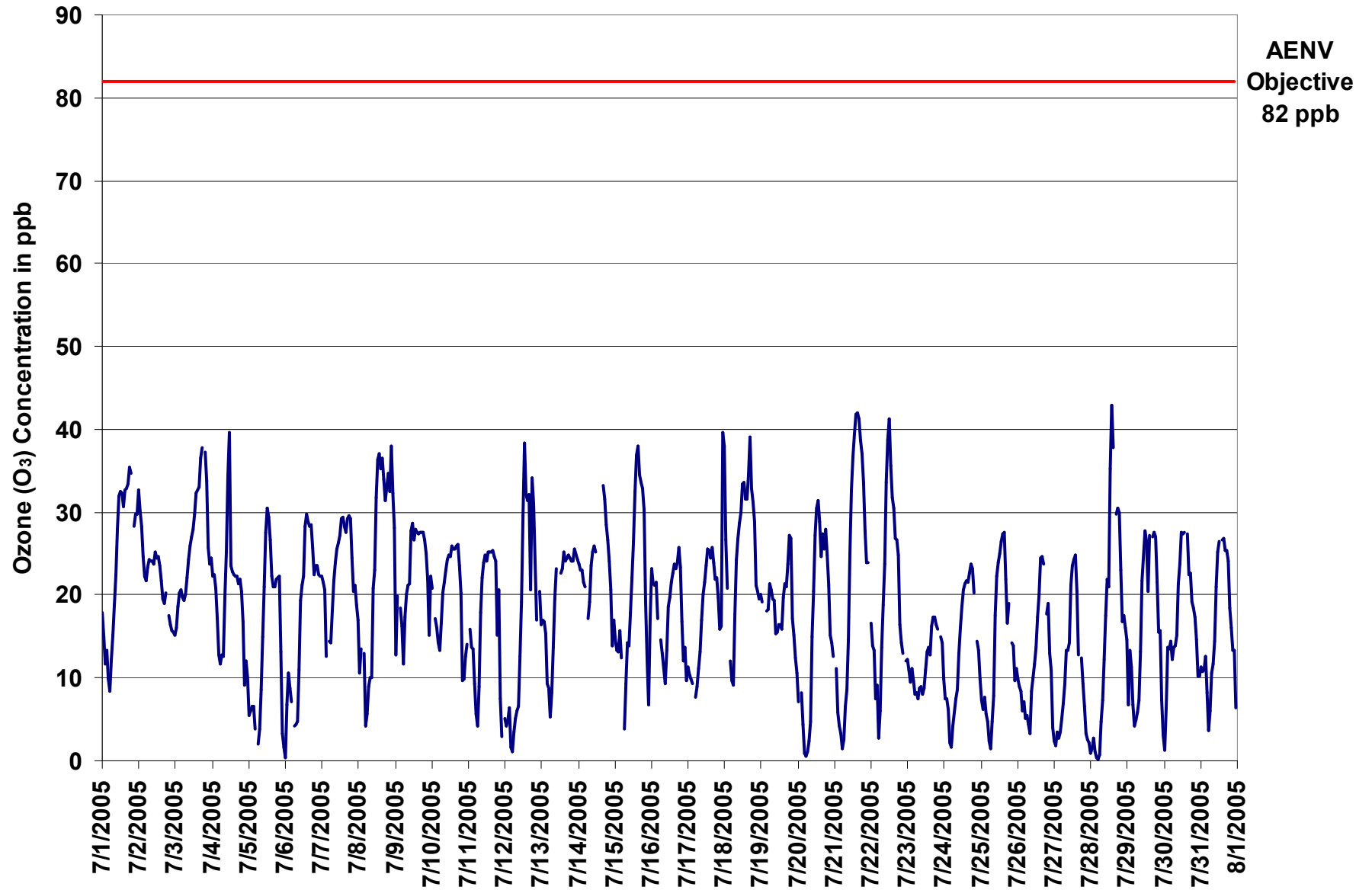


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

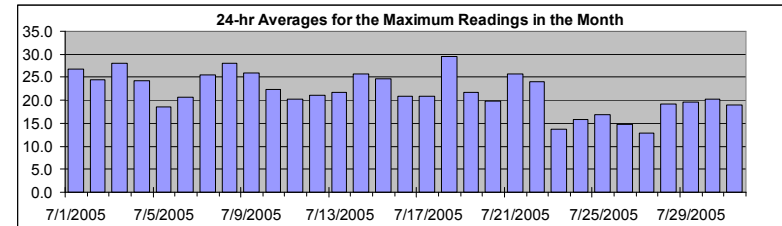
Ozone (O₃)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	58.0	ppb	4-Jul	10:00 11:00
Maximum 24-hr Value:	29.6	ppb	18-Jul	

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
	43.4	37.8	27.4	22.4	14.7	6.1	3.0	21.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-05	21	21	15	16	13	14	14	17	21	27	31	33	34	35	32	35	35	36	37	36	A	32	32	31	26.8	36.5	
2-Jul-05	35	32	30	27	25	24	24	26	26	26	25	27	26	26	25	24	21	20	22	A	19	18	17	17	24.5	35.2	
3-Jul-05	16	18	20	22	22	21	21	21	24	26	27	28	31	33	34	37	39	42	A	41	37	33	27	28	28.1	41.5	
4-Jul-05	25	25	24	21	15	15	15	16	25	29	58	57	26	24	24	24	24	24	25	25	21	13	17	13	24.4	58.0	
5-Jul-05	10	11	10	9	6	A	3	7	13	22	24	31	34	31	31	26	25	24	25	26	26	20	8	7	18.6	33.6	
6-Jul-05	4	13	12	10	8	A	8	7	12	18	22	25	26	32	33	31	31	31	28	26	25	25	24	24	20.7	32.6	
7-Jul-05	24	23	23	21	A	17	16	20	24	26	26	28	28	31	31	30	29	32	31	31	28	23	23	22	25.5	31.7	
8-Jul-05	19	18	19	A	16	10	10	15	16	17	25	28	37	39	40	38	38	37	36	38	40	41	37	33	28.1	41.3	
9-Jul-05	25	24	A	21	20	15	23	23	25	27	30	30	29	29	29	29	29	30	29	29	28	25	25	25	25.9	29.8	
10-Jul-05	24	A	19	18	19	16	20	22	23	25	25	27	26	27	28	28	27	28	26	23	17	12	17	16	22.3	28.2	
11-Jul-05	A	18	18	15	14	8	6	13	22	24	26	27	27	27	27	27	27	26	25	25	24	16	6	A	20.3	27.2	
12-Jul-05	11	7	7	8	6	3	5	8	9	12	18	27	35	42	36	36	34	35	37	36	29	21	A	23	21.0	42.2	
13-Jul-05	19	18	19	18	14	14	9	14	16	24	24	C	C	24	25	27	26	27	26	26	26	26	27	26	21.6	27.4	
14-Jul-05	25	24	24	23	22	A	19	22	26	27	28	27	C	C	C	A	35	33	30	28	26	23	21	21	25.7	35.2	
15-Jul-05	18	16	16	18	17	A	8	14	16	16	21	27	30	38	40	41	41	36	37	36	25	20	11	24	24.7	41.5	
16-Jul-05	25	22	23	24	20	A	17	15	14	12	16	21	22	24	26	27	25	26	27	26	22	18	16	14	20.9	27.0	
17-Jul-05	15	12	12	11	A	10	11	12	15	19	22	24	26	27	27	26	27	27	23	24	22	19	26	43	20.8	42.7	
18-Jul-05	43	31	25	A	14	13	15	23	26	29	30	34	35	39	34	34	38	43	38	33	33	26	22	21	29.6	43.4	
19-Jul-05	22	21	A	19	20	24	23	22	21	18	17	18	20	21	22	26	26	26	31	31	23	18	17	13	21.7	31.3	
20-Jul-05	13	A	11	8	3	2	3	4	10	18	27	30	34	33	32	28	32	28	30	28	24	20	21	18	19.9	33.8	
21-Jul-05	A	13	8	7	6	3	6	8	12	18	33	35	40	41	44	44	44	40	40	37	32	28	27	A	25.7	44.1	
22-Jul-05	19	17	17	13	11	5	12	19	21	29	39	41	45	41	36	33	31	28	29	21	17	15	A	15	24.1	44.5	
23-Jul-05	13	12	12	13	12	9	9	9	10	10	10	10	13	15	15	14	19	19	19	18	18	A	18	16	13.6	19.3	
24-Jul-05	12	11	10	9	5	4	7	10	11	16	18	20	22	23	23	23	24	25	25	22	A	16	15	12	15.8	25.5	
25-Jul-05	9	8	10	7	6	4	4	7	11	23	24	27	26	28	29	29	28	21	23	A	19	17	14	14	16.8	28.7	
26-Jul-05	12	11	10	8	9	8	8	7	6	12	12	14	17	21	22	27	26	26	A	22	23	16	15	7	14.7	26.8	
27-Jul-05	4	5	5	6	5	7	9	13	15	14	19	23	25	25	26	26	20	A	15	12	8	6	5	4	12.9	26.4	
28-Jul-05	2	3	5	3	2	1	2	8	11	16	19	24	26	43	46	42	A	32	33	33	28	23	21	19	19.2	45.7	
29-Jul-05	19	14	16	14	12	6	10	8	11	17	27	31	31	31	30	A	29	30	29	25	19	20	18	6	19.7	30.8	
30-Jul-05	4	16	15	15	17	16	16	15	21	24	27	29	29	29	A	29	25	27	21	21	23	19	13	13	20.3	29.4	
31-Jul-05	13	13	14	15	12	6	11	13	14	18	24	27	28	A	28	28	28	28	28	28	23	19	18	15	13	18.9	28.5
Hourly Avg	17.2	16.4	15.5	14.5	12.9	10.7	11.7	14.1	16.9	20.6	25.0	27.6	28.5	30.5	30.2	29.9	29.6	29.5	28.5	27.6	24.2	20.8	19.1	18.6			
Hourly Max	42.8	31.7	29.8	26.7	24.8	24.3	24.3	26.1	26.3	29.5	58.0	57.4	44.5	43.3	45.7	43.9	44.1	43.4	39.5	40.7	39.9	41.3	36.8	42.7			

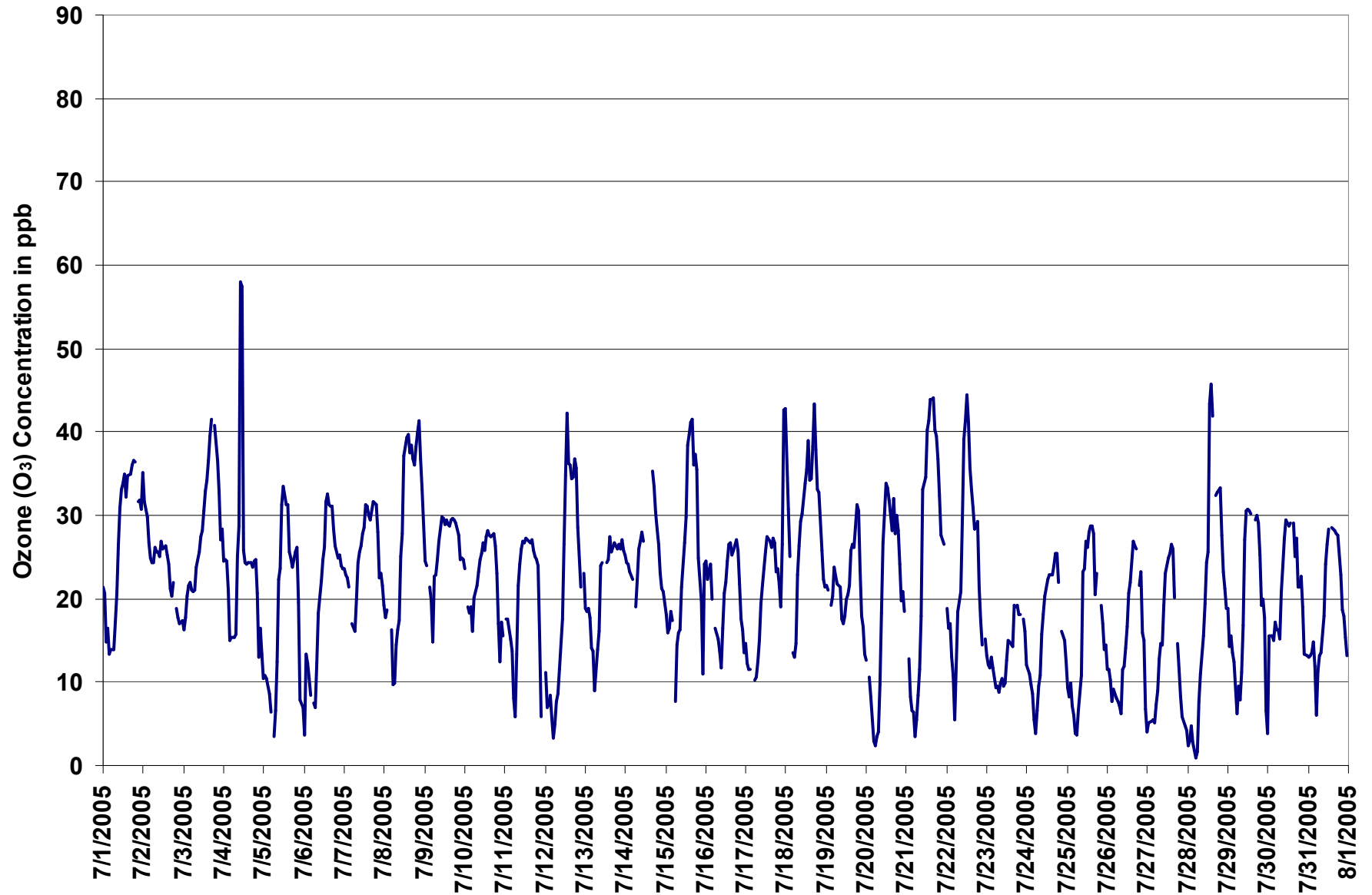
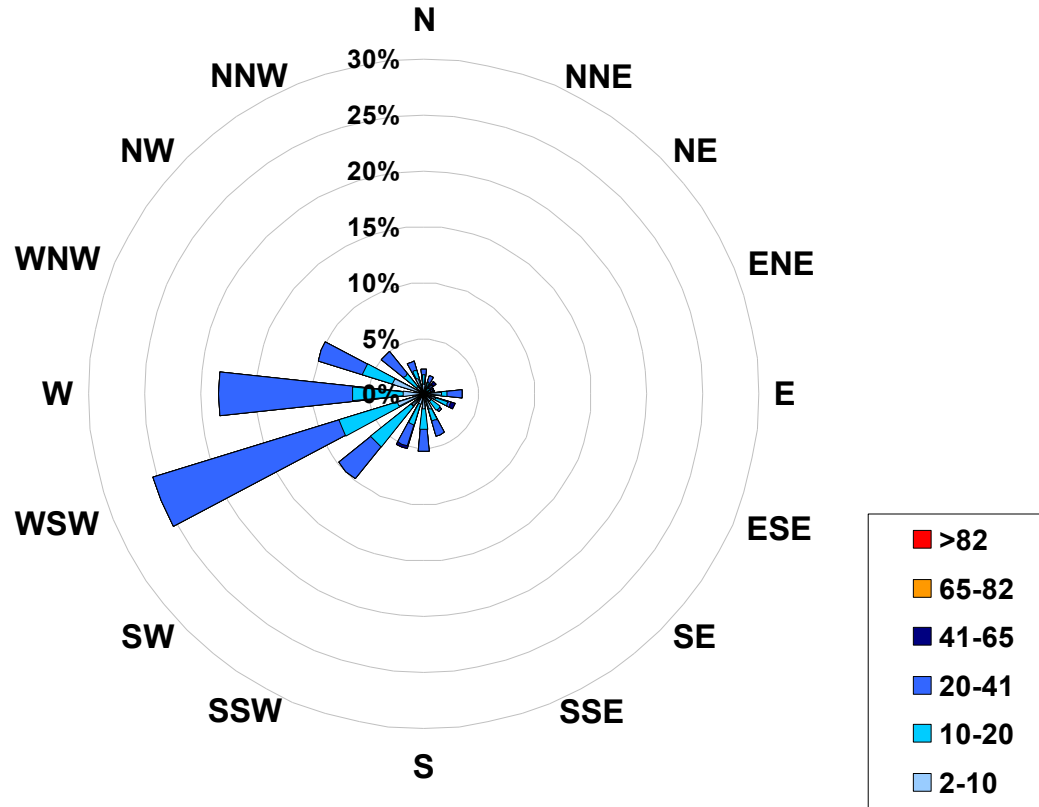


Figure 8. PASZA - Henry Pirker Ozone 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for July 2005



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	155	
10	to 20	206	
20	to 41	341	
41	to 65	5	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			707

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

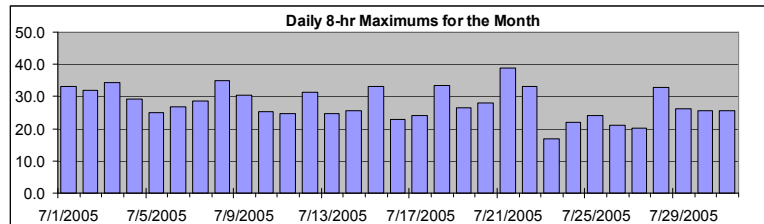
Ozone (O₃)

Monitoring Dates: July 1, 2005 to August 1, 2005

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	38.8	ppb	21-Jul	19:00	20:00		

Percentile	99	95	75	50	25	5	1
	34.6	32.0	24.1	19.0	12.6	5.8	3.6



Status Flag Characters

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

Day	Mountain Standard Time																								Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Jul-05	25	22	19	17	14	14	13	13	13	14	16	18	21	24	26	29	30	32	33	33	33	33	32	32	33.2
2-Jul-05	32	32	30	29	28	27	27	26	25	24	24	24	24	24	24	24	23	23	22	22	21	20	19	18	32.0
3-Jul-05	17	17	16	17	17	18	18	19	20	21	22	22	23	25	26	28	30	31	32	33	34	34	33	31	34.3
4-Jul-05	29	27	26	24	21	19	18	17	16	17	18	21	22	24	25	26	27	26	25	22	21	20	18	17	29.3
5-Jul-05	15	13	11	9	7	7	6	5	5	7	9	12	16	17	20	23	24	25	25	24	23	21	18	16	25.1
6-Jul-05	13	11	10	8	6	5	6	6	7	7	9	10	12	14	18	21	24	26	27	27	27	26	25	25	26.9
7-Jul-05	24	23	22	21	21	19	18	18	18	18	19	21	21	23	25	26	27	28	28	29	28	27	26	25	28.7
8-Jul-05	24	21	19	18	16	14	12	10	9	9	10	12	14	18	22	26	29	32	33	35	35	35	34	33	34.9
9-Jul-05	30	29	28	26	24	20	18	17	18	18	19	21	22	24	25	26	27	28	28	27	27	26	25	24	30.5
10-Jul-05	23	23	21	20	18	17	17	17	17	18	19	20	21	23	24	24	25	25	25	25	23	21	19	18	25.3
11-Jul-05	17	15	14	13	13	12	11	10	11	12	13	15	16	19	21	24	24	25	25	24	23	21	18	17	24.8
12-Jul-05	14	11	9	7	5	4	4	4	4	4	5	7	10	15	19	22	25	27	30	31	30	28	27	26	31.2
13-Jul-05	23	23	20	18	16	15	14	12	12	12	13	13	N	N	N	N	N	N	N	N	24	24	25	24	24.6
14-Jul-05	24	24	24	24	23	23	22	21	21	21	22	22	N	N	N	N	N	N	N	N	N	N	25	24	25.5
15-Jul-05	22	20	18	17	15	14	13	12	12	12	12	13	15	18	22	25	28	30	32	33	32	30	26	23	33.2
16-Jul-05	22	20	19	18	18	18	19	19	17	15	14	14	14	15	16	17	19	21	22	23	23	21	20	19	23.0
17-Jul-05	17	15	13	12	11	10	10	10	10	11	12	14	15	18	20	21	23	24	24	24	24	22	21	23	24.0
18-Jul-05	25	25	25	25	24	23	22	19	17	17	18	20	22	25	28	30	31	33	33	33	33	31	30	28	33.4
19-Jul-05	27	24	23	21	20	20	20	20	20	19	19	18	17	17	18	18	18	19	20	21	22	21	21	19	26.6
20-Jul-05	18	17	14	11	8	6	5	4	3	5	6	9	13	17	20	23	26	27	28	28	26	24	23	21	27.9
21-Jul-05	20	18	15	12	9	8	6	5	5	6	8	12	16	21	26	30	34	37	39	39	38	36	34	32	38.8
22-Jul-05	29	25	22	18	15	12	10	10	11	12	14	18	22	26	30	32	33	33	32	29	26	23	22	19	33.1
23-Jul-05	17	15	13	12	11	11	10	10	9	9	8	9	9	9	10	11	12	13	14	15	15	16	16	16	17.0
24-Jul-05	15	14	12	11	9	8	7	6	6	6	7	9	11	14	16	18	19	21	22	22	22	21	20	18	22.1
25-Jul-05	16	14	11	9	9	7	6	5	5	6	8	11	13	16	19	22	24	24	24	23	22	20	18	15	24.0
26-Jul-05	13	12	11	10	9	8	8	7	6	6	6	7	8	9	11	14	16	18	19	20	21	20	19	16	21.0
27-Jul-05	13	10	9	7	5	4	4	4	6	7	9	11	13	16	18	19	19	20	20	18	16	13	10	7	20.2
28-Jul-05	5	5	4	3	2	1	1	2	2	4	6	8	11	15	20	24	27	29	31	32	33	30	26	23	32.7
29-Jul-05	22	19	17	15	13	11	10	8	8	8	9	11	14	16	19	21	23	25	26	25	24	23	20	18	26.2
30-Jul-05	15	12	11	10	9	9	10	11	13	15	16	18	19	21	22	24	25	26	25	24	22	20	19	17	25.5
31-Jul-05	16	14	13	12	11	10	9	9	9	10	11	13	15	17	19	22	24	25	26	25	23	22	20	18	25.7

Hourly Max	32.0	31.5	30.5	29.0	28.2	27.4	26.6	25.9	24.8	24.1	23.5	23.6	23.9	26.4	29.6	31.7	34.2	37.2	38.7	38.8	37.7	35.7	34.3	33.4
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PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

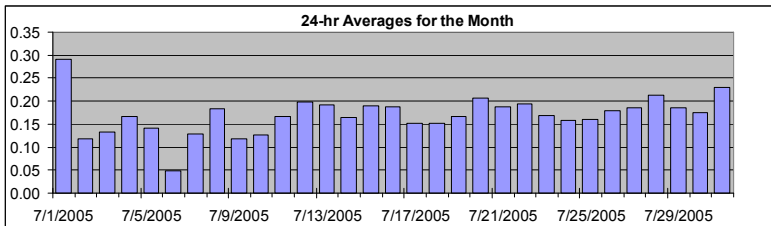
Carbon Monoxide (CO)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.6	ppm	1-Jul	0:00 1:00
Maximum 24-hr Value:	0.3	ppm	1-Jul	

AIC Time:	32 hrs	Operational Time:	706 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%					
Percentile	99	95	75	50	25	5	1	Average
	0.4	0.3	0.2	0.2	0.1	0.1	0.0	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																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Jul-05	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.29	0.58
2-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.12	0.15	
3-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.2	0.1	0.1	0.13	0.18	
4-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.25	
5-Jul-05	0.3	0.2	0.2	0.2	0.2	A	0.3	0.4	0.2	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.14	0.42	
6-Jul-05	0.3	0.1	0.0	0.0	0.0	A	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.05	0.34	
7-Jul-05	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.13	0.17	
8-Jul-05	0.2	0.1	0.2	A	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.18	0.34	
9-Jul-05	0.2	0.1	A	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.16	
10-Jul-05	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.13	0.21	
11-Jul-05	A	0.1	0.1	0.1	0.1	0.2	0.3	0.3	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	0.2	0.3	0.3	A	0.17	0.33	
12-Jul-05	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.20	0.42	
13-Jul-05	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	C	C	C	A	D	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.26	
14-Jul-05	0.2	0.2	0.1	0.1	0.1	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.21	
15-Jul-05	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	C	C	C	A	D	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.19	0.27		
16-Jul-05	0.1	0.1	0.1	0.1	0.1	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	0.19	0.27	
17-Jul-05	0.2	0.2	0.2	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.15	0.21	
18-Jul-05	0.1	0.2	0.2	A	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.15	0.21	
19-Jul-05	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.23	
20-Jul-05	0.2	A	0.1	0.1	0.2	0.2	0.4	0.6	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.57	
21-Jul-05	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.2	A	0.19	0.29	
22-Jul-05	0.2	0.2	0.2	0.1	0.1	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	0.3	0.2	A	0.2	0.19	0.28	
23-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.20	
24-Jul-05	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.16	0.22	
25-Jul-05	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	A	0.2	0.2	0.2	0.2	0.16	0.26	
26-Jul-05	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	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.18	0.28	
27-Jul-05	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.28	
28-Jul-05	0.3	0.2	0.1	0.2	0.3	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.46	
29-Jul-05	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.19	0.33		
30-Jul-05	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.17	0.32		
31-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.23	0.45		
Hourly Avg	0.19	0.17	0.15	0.14	0.16	0.19	0.22	0.21	0.18	0.17	0.15	0.15	0.15	0.16	0.15	0.15	0.16	0.15	0.15	0.16	0.18	0.20	0.20	0.19				
Hourly Max	0.58	0.49	0.48	0.42	0.40	0.40	0.46	0.57	0.44	0.34	0.30	0.27	0.25	0.29	0.25	0.23	0.28	0.25	0.24	0.30	0.33	0.35	0.35	0.45				

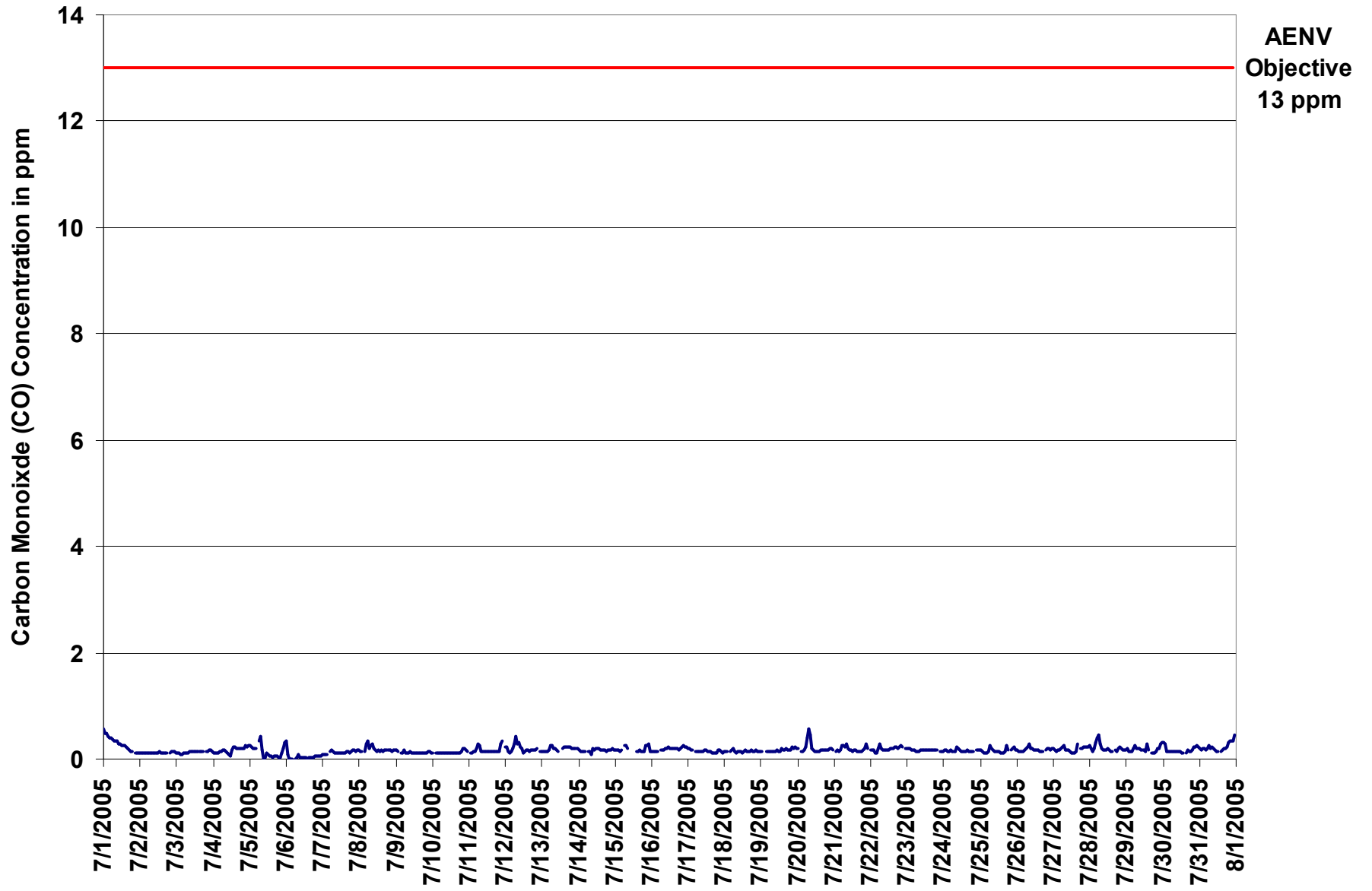


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

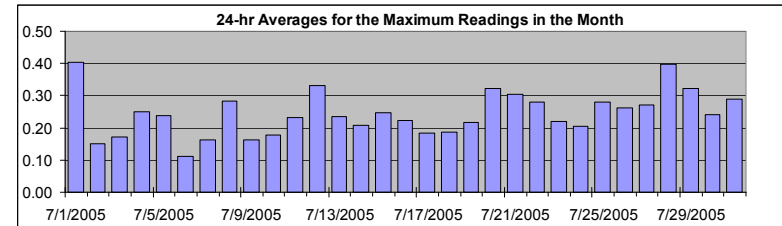
Carbon Monoxide (CO)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	1.4	ppm	28-Jul	4:00 5:00
Maximum 24-hr Value:	0.4	ppm	1-Jul	

AIC Time:	32 hrs	Operational Time:	706 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%					
Percentile	99	95	75	50	25	5	1	Average
	0.9	0.5	0.3	0.2	0.2	0.1	0.1	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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	0.9	0.5	1.1	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.6	0.6	0.4	0.3	0.2	0.1	0.2	A	0.1	0.2	0.2	0.2	0.40	1.13
2-Jul-05	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.15	0.20
3-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.29
4-Jul-05	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.5	0.2	0.2	0.1	0.2	0.3	0.3	0.7	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.25	0.66
5-Jul-05	0.4	0.4	0.3	0.2	0.2	A	0.4	0.5	0.3	0.0	0.1	0.5	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.24	0.54	
6-Jul-05	0.6	0.4	0.0	0.0	0.1	A	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.58
7-Jul-05	0.1	0.1	0.1	0.1	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	0.16	0.21
8-Jul-05	0.2	0.2	0.2	A	0.2	0.3	1.1	0.4	0.3	0.3	0.3	0.2	0.2	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28	1.10
9-Jul-05	0.2	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.24
10-Jul-05	0.2	A	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.18	0.35	
11-Jul-05	A	0.2	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1	0.2	0.2	0.2	0.4	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.4	A	0.23	0.43
12-Jul-05	0.3	0.4	0.2	0.1	0.2	0.2	0.5	0.8	0.4	0.8	0.8	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.33	0.80	
13-Jul-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	C	C	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.24	0.38	
14-Jul-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	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	0.3	0.3	0.3	0.21	0.28
15-Jul-05	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.3	C	C	C	A	D	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.25	0.40	
16-Jul-05	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.22	0.37
17-Jul-05	0.2	0.2	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	0.2	0.2	0.18	0.26
18-Jul-05	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	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.19	0.26	
19-Jul-05	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	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.22	0.32	
20-Jul-05	0.3	A	0.2	0.2	0.3	0.3	1.2	1.2	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.32	1.23	
21-Jul-05	A	0.2	0.2	0.2	0.2	0.4	0.3	0.9	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.8	0.3	A	0.30	0.85	
22-Jul-05	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.3	A	0.2	0.28	0.41	
23-Jul-05	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	0.3	0.2	0.3	0.2	0.2	0.2	0.4	0.3	A	0.2	0.22	0.35	
24-Jul-05	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.20	0.44	
25-Jul-05	0.2	0.2	0.1	0.1	0.1	0.3	0.9	0.7	0.2	0.2	0.3	0.4	0.4	0.4	0.1	0.2	0.2	0.4	0.2	A	0.2	0.3	0.3	0.3	0.28	0.85	
26-Jul-05	0.2	0.2	0.2	0.2	0.2	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.2	0.3	0.26	0.60	
27-Jul-05	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.5	A	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.46	
28-Jul-05	0.4	0.2	0.2	0.3	1.4	0.7	1.4	0.6	0.3	0.2	0.2	0.2	0.5	0.3	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.40	1.43	
29-Jul-05	0.3	0.2	0.3	0.3	0.2	0.4	0.8	0.6	0.2	0.3	0.2	0.2	0.2	0.6	0.3	A	0.2	0.2	0.2	0.2	0.4	0.3	0.4	0.5	0.32	0.78	
30-Jul-05	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.3	0.3	0.24	0.61	
31-Jul-05	0.3	0.2	0.2	0.4	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.29	0.51	
Hourly Avg	0.26	0.23	0.21	0.18	0.23	0.30	0.40	0.36	0.25	0.23	0.22	0.23	0.21	0.26	0.23	0.20	0.21	0.20	0.19	0.22	0.26	0.27	0.25	0.24			
Hourly Max	0.94	0.54	1.13	0.46	1.43	0.74	1.42	1.23	0.61	0.79	0.77	0.61	0.52	0.58	0.66	0.38	0.46	0.40	0.33	0.43	0.61	0.76	0.43	0.54			

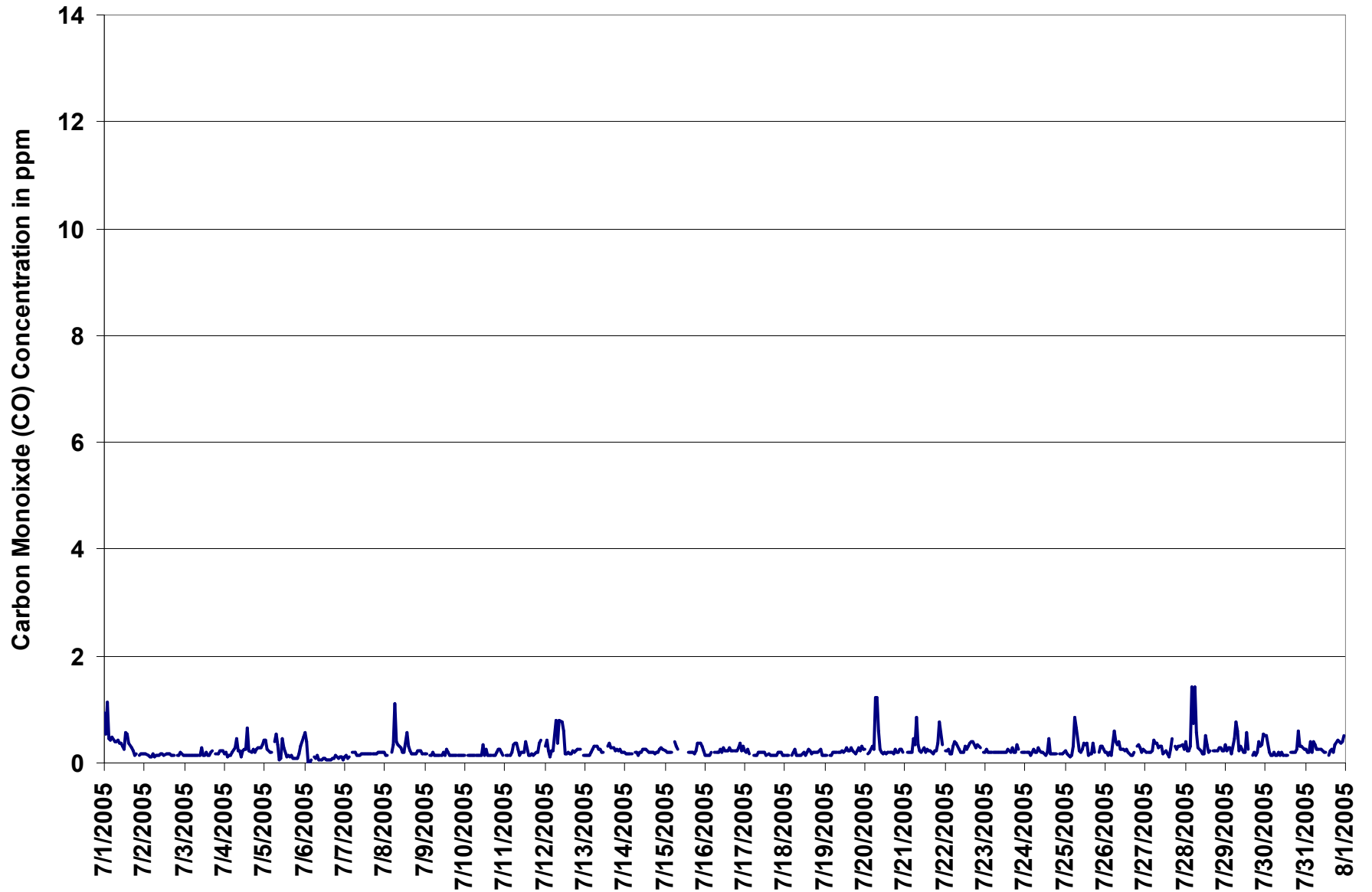
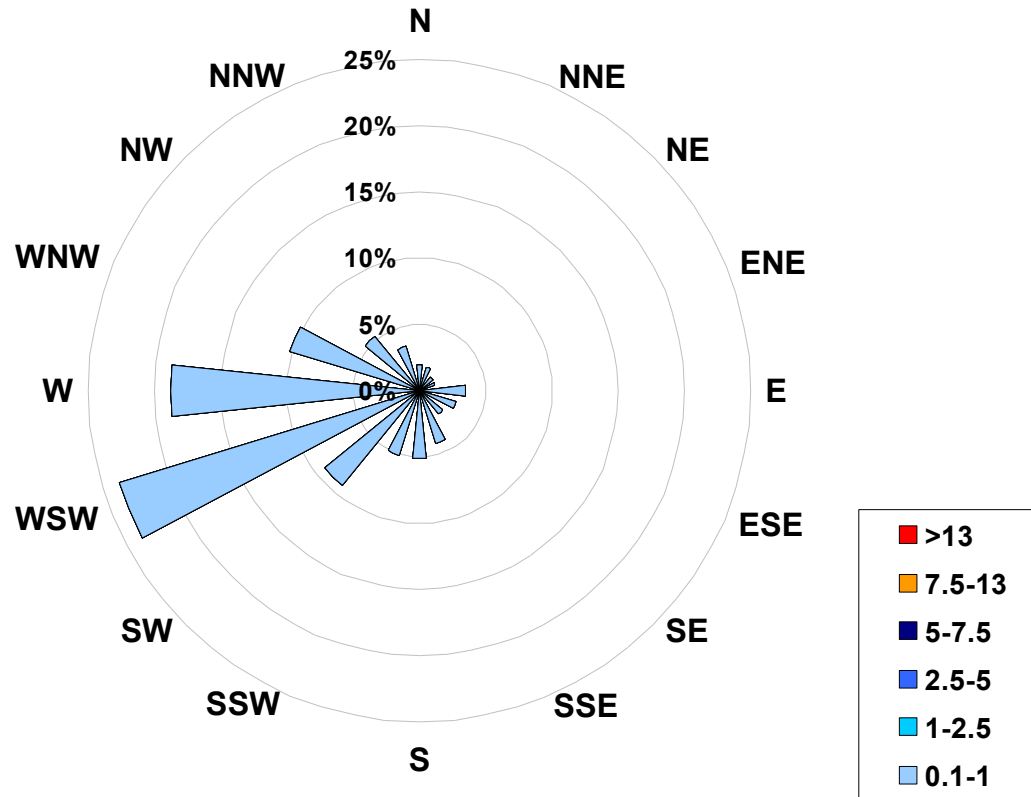


Figure 10. PASZA - Henry Pirker Carbon Monoxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for July 2005



Calms: 0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	706
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			706

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Station: Henry Pirker
 Station Owner: PASZA

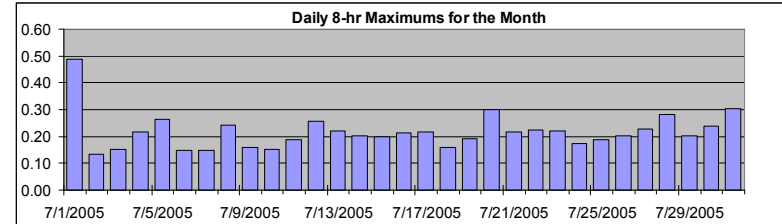
Monitoring Dates: July 1, 2005 to August 1, 2005

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.5	ppm	1-Jul	3:00	4:00		

Percentile	99	95	75	50	25	5	1
	0.4	0.3	0.2	0.2	0.1	0.1	0.0



Status Flag Characters

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

Day Mountain Standard Time

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	Daily Maximum
1-Jul-05	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.49
2-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
3-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.15
4-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
5-Jul-05	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.27
6-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
7-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
8-Jul-05	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
9-Jul-05	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
10-Jul-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.15
11-Jul-05	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.19
12-Jul-05	0.2	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	0.2	0.2	0.2	0.2	0.2	0.26
13-Jul-05	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.22
14-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
15-Jul-05	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	N	N	0.2	0.2	0.2	0.2	0.20
16-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
17-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.22
18-Jul-05	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.16
19-Jul-05	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
20-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
21-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
22-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
24-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.17
25-Jul-05	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.19
26-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
27-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
28-Jul-05	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	0.28
29-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
30-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.24
31-Jul-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.30

Hourly Max 0.43 0.46 0.48 0.49 0.48 0.47 0.46 0.43 0.40 0.38 0.36 0.34 0.32 0.30 0.29 0.28 0.26 0.24 0.22 0.21 0.23 0.24 0.27 0.30

PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

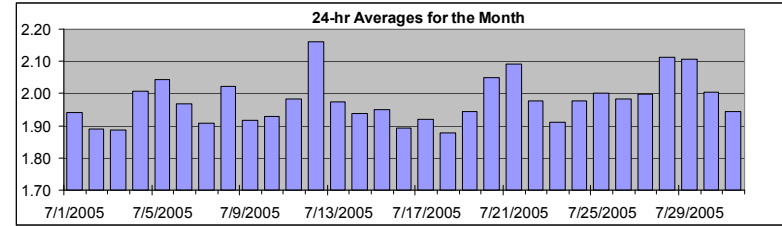
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	2.9	ppm	30-Jul	0:00 1:00
Maximum 24-hr Value:	2.2	ppm	12-Jul	



AIC Time:	41 hrs	Operational Time:	700 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	2.5	2.3	2.0	1.9	1.9	1.9	1.8	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																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-05	2.0	2.1	2.0	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	1.9	A	1.9	1.9	1.9	1.9	1.94	2.13
2-Jul-05	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	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.89	1.97
3-Jul-05	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	A	1.9	1.9	2.0	2.0	2.0	1.89	1.97
4-Jul-05	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	1.9	2.2	2.6	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.01	2.62
5-Jul-05	2.2	2.2	2.1	2.3	2.3	A	2.3	2.4	2.1	2.0	1.9	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.3	2.04	2.36
6-Jul-05	2.5	2.1	2.0	2.0	2.0	A	2.2	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.97	2.51	
7-Jul-05	1.9	1.9	1.9	A	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	2.0	1.91	1.98	
8-Jul-05	2.1	A	2.0	A	2.5	2.4	2.3	2.1	2.1	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.02	2.48	
9-Jul-05	A	2.0	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	1.9	1.9	1.9	1.9	A	2.0	1.92	2.03	
10-Jul-05	1.9	A	2.0	1.9	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	A	2.0	2.0	2.0	1.93	2.03	
11-Jul-05	A	2.0	2.0	2.0	2.0	2.1	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	A	2.0	2.1	2.1	A	1.98	2.18
12-Jul-05	2.3	2.4	2.3	2.3	2.5	2.5	2.4	2.5	2.4	2.3	2.2	2.1	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	1.9	1.9	A	1.9	2.16	2.53	
13-Jul-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.97	2.03	
14-Jul-05	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	1.9	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	2.0	2.0	1.94	2.03	
15-Jul-05	2.1	2.2	2.1	2.0	2.0	A	2.1	2.0	1.9	1.9	1.9	1.9	C	C	A	A	A	1.7	1.9	1.8	1.9	1.9	2.0	1.9	1.95	2.15	
16-Jul-05	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	1.89	2.05	
17-Jul-05	2.1	2.1	2.1	2.0	A	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	1.8	1.8	1.9	1.9	1.9	1.9	1.92	2.14	
18-Jul-05	1.9	1.9	1.8	A	1.9	1.9	1.9	1.9	1.9	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	1.9	1.88	1.94	
19-Jul-05	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	2.0	2.0	2.0	2.2	2.3	1.94	2.27	
20-Jul-05	2.4	A	2.2	2.2	2.4	2.3	2.3	2.4	2.3	2.0	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.05	2.38	
21-Jul-05	A	2.1	2.3	2.4	2.3	2.5	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.09	2.48	
22-Jul-05	2.0	2.2	2.1	2.1	2.1	2.1	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	1.9	1.9	1.9	A	1.9	1.98	2.18	
23-Jul-05	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	1.9	1.9	1.9	A	1.9	1.91	1.94	
24-Jul-05	1.9	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	A	1.9	1.9	2.0	1.98	2.24	
25-Jul-05	2.2	2.4	2.0	2.0	2.0	2.0	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.0	2.0	2.00	2.37	
26-Jul-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.4	1.98	2.38	
27-Jul-05	2.2	2.2	2.1	2.2	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.00	2.25	
28-Jul-05	2.5	2.4	2.2	2.3	2.7	2.5	2.4	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.8	1.9	2.1	2.4	2.0	2.0	2.0	2.11	2.67	
29-Jul-05	2.0	2.8	2.1	2.1	2.4	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.8	A	1.9	1.9	1.9	1.9	2.0	2.0	2.7	2.3	2.11	2.82	
30-Jul-05	2.9	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	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	2.00	2.87	
31-Jul-05	1.9	2.1	1.9	1.9	2.0	2.2	2.1	2.0	2.1	2.1	1.9	1.9	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.9	2.1	1.94	2.24	
Hourly Avg	2.09	2.10	2.03	2.06	2.10	2.10	2.07	2.04	2.02	1.98	1.94	1.94	1.90	1.90	1.89	1.89	1.88	1.87	1.89	1.90	1.92	1.95	2.00	2.01			
Hourly Max	2.87	2.82	2.33	2.37	2.67	2.53	2.44	2.52	2.43	2.34	2.22	2.62	1.97	2.00	1.99	2.00	1.98	1.99	1.97	2.10	2.36	2.11	2.70	2.38			

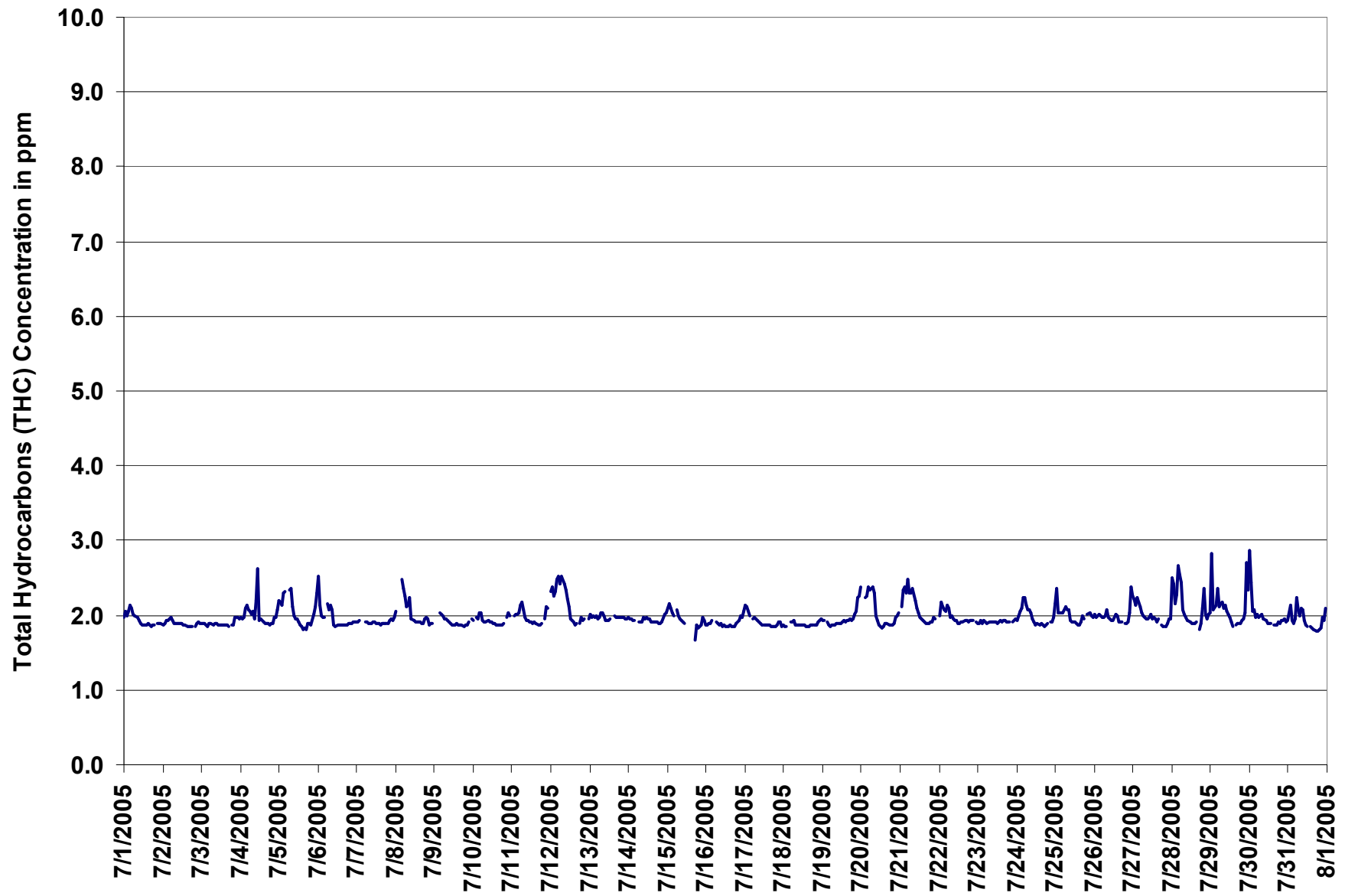


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

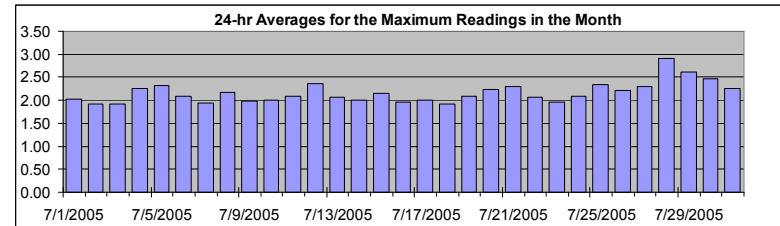
Total Hydrocarbons (THC)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	6.4	ppm	30-Jul	0:00 1:00
Maximum 24-hr Value:	2.9	ppm	28-Jul	

AIC Time:	41 hrs	Operational Time:	700 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	4.3	2.9	2.2	2.0	1.9	1.9	1.9	2.2 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	2.1	2.4	2.2	2.1	2.2	2.3	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	A	1.9	1.9	1.9	2.03	2.41	
2-Jul-05	1.9	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	1.9	2.0	2.0	1.9	1.93	2.00	
3-Jul-05	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	A	1.9	1.9	2.0	2.1	2.1	1.93	2.12	
4-Jul-05	2.0	2.0	2.1	2.3	2.3	2.1	2.1	2.1	3.0	2.0	3.4	3.4	2.0	2.7	2.3	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.5	2.25	3.45	
5-Jul-05	2.8	2.7	2.7	2.7	2.5	A	2.5	2.5	3.2	2.1	2.1	2.1	2.0	1.9	2.0	1.8	1.9	1.9	2.4	2.0	2.0	2.5	2.5	2.6	2.33	3.21	
6-Jul-05	3.0	3.2	2.0	2.0	2.0	A	2.3	2.1	2.3	2.3	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	2.08	3.15	
7-Jul-05	1.9	1.9	1.9	A	A	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	1.9	2.0	2.0	2.0	2.1	1.95	2.10	
8-Jul-05	2.3	A	2.3	A	2.6	2.7	2.5	2.5	2.3	2.4	2.1	2.0	2.0	2.0	1.9	2.0	1.9	2.0	2.2	2.1	2.3	1.9	1.9	2.0	2.17	2.68	
9-Jul-05	A	2.2	A	2.4	2.2	2.1	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	1.9	2.0	A	2.0	1.99	2.37	
10-Jul-05	2.0	A	2.0	2.0	2.2	2.2	2.0	1.9	2.0	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.3	2.2	2.0	2.00	2.28	
11-Jul-05	A	2.0	2.1	2.2	2.2	2.4	2.3	2.2	2.1	2.0	2.1	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	A	2.1	2.3	2.2	A	2.09	2.42	
12-Jul-05	2.8	3.5	2.5	2.5	2.6	2.7	2.6	2.7	2.6	2.5	2.3	2.2	2.1	2.1	2.0	1.9	1.9	A	1.9	2.4	2.2	2.0	A	2.0	2.36	3.55	
13-Jul-05	2.2	2.1	2.0	2.0	2.0	2.1	2.0	2.2	2.1	2.4	2.0	2.0	2.0	2.0	C	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.36	
14-Jul-05	2.0	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	2.0	2.0	1.9	1.9	2.0	2.1	2.2	2.00	2.22	
15-Jul-05	2.3	3.0	2.4	2.2	2.1	A	2.2	2.1	2.1	2.1	2.0	2.0	C	C	A	A	A	1.8	2.1	2.1	1.9	1.9	2.3	2.2	2.15	2.99	
16-Jul-05	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	2.0	2.0	2.0	2.5	1.95	2.51	
17-Jul-05	2.3	2.3	2.2	2.1	A	2.1	2.0	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	2.0	2.0	1.9	2.00	2.33	
18-Jul-05	1.9	1.9	2.0	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	1.9	1.9	1.9	2.0	2.0	1.93	2.02	
19-Jul-05	2.0	2.0	A	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	2.0	2.0	2.0	2.0	2.6	2.2	2.9	3.1	2.08	3.08	
20-Jul-05	3.3	A	2.8	2.4	2.6	2.5	2.9	2.6	2.6	2.1	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.9	1.9	2.1	2.0	2.1	2.23	3.35	
21-Jul-05	A	2.6	3.0	2.8	2.5	3.3	2.4	2.4	2.6	2.3	2.3	2.3	2.1	2.2	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.1	2.0	A	2.30	3.25	
22-Jul-05	2.1	2.4	2.2	2.2	2.1	2.2	2.3	2.1	2.1	2.2	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.07	2.36	
23-Jul-05	1.9	1.9	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	2.0	1.9	1.9	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.96	2.09	
24-Jul-05	2.0	2.1	2.3	2.2	2.3	2.5	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9	2.0	2.1	2.0	1.9	2.0	1.9	A	2.0	2.0	2.3	2.08	2.53	
25-Jul-05	4.3	3.9	2.4	2.1	2.1	2.1	2.3	2.3	2.4	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.4	2.2	A	2.4	2.5	2.1	2.5	2.34	4.32	
26-Jul-05	2.6	2.2	2.0	2.2	2.2	2.2	2.0	2.2	2.1	2.0	2.0	2.0	2.2	2.2	2.0	2.0	2.0	2.1	A	1.9	2.0	2.0	2.2	4.6	2.22	4.59	
27-Jul-05	3.1	2.4	2.2	2.8	2.2	2.1	2.1	2.0	2.0	2.0	2.5	2.7	2.3	2.5	2.4	2.6	2.2	A	2.0	1.9	2.0	2.0	2.0	2.8	2.30	3.12	
28-Jul-05	4.2	4.2	2.9	4.5	4.5	3.2	3.1	2.4	2.1	2.0	2.2	2.4	2.1	2.0	2.2	2.4	A	1.9	2.8	3.9	3.5	3.9	2.1	2.2	2.90	4.50	
29-Jul-05	2.2	5.6	2.3	2.5	3.3	2.9	2.7	2.6	2.5	2.5	2.3	2.4	2.5	2.0	2.1	A	1.9	1.9	1.9	2.0	2.1	2.3	5.2	2.5	2.61	5.55	
30-Jul-05	6.4	5.7	2.5	2.6	2.0	2.1	2.0	2.1	2.2	2.1	2.0	1.9	1.9	2.0	A	2.1	2.0	1.9	2.0	2.0	3.5	2.1	2.0	2.0	2.47	6.35	
31-Jul-05	2.6	2.8	2.5	1.9	2.1	3.8	2.3	2.2	2.5	2.5	2.1	1.9	1.9	A	2.0	1.9	1.9	1.8	1.8	1.9	1.9	2.2	2.9	2.5	2.26	3.77	
Hourly Avg	2.58	2.67	2.25	2.30	2.29	2.35	2.20	2.16	2.20	2.10	2.08	2.07	2.00	2.01	2.00	2.00	1.95	1.94	2.00	2.04	2.13	2.13	2.24	2.29			
Hourly Max	6.35	5.66	2.95	4.47	4.50	3.77	3.07	2.67	3.21	2.53	3.42	3.45	2.47	2.68	2.39	2.55	2.20	2.40	2.82	3.93	3.48	3.86	5.23	4.59			

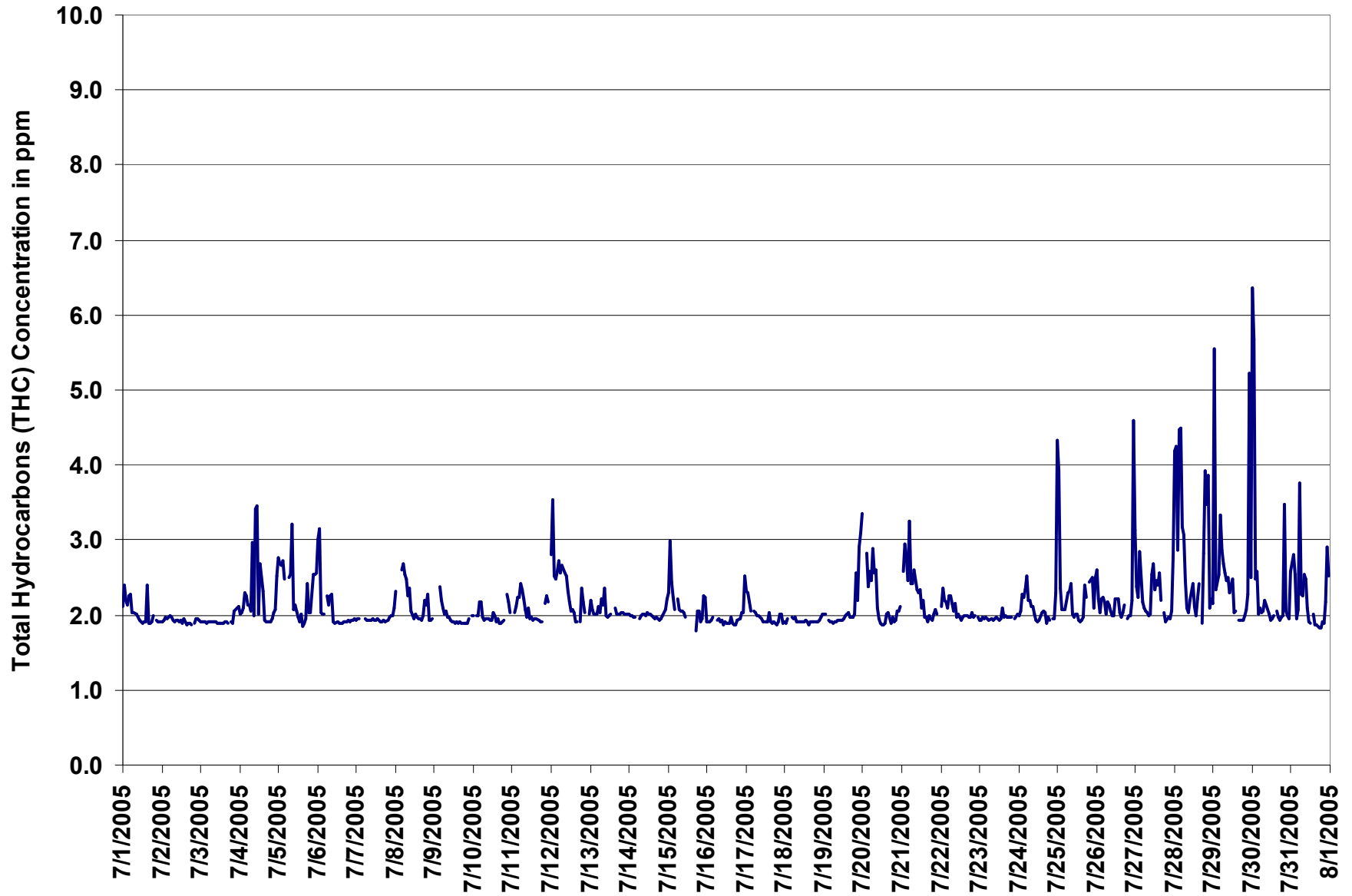
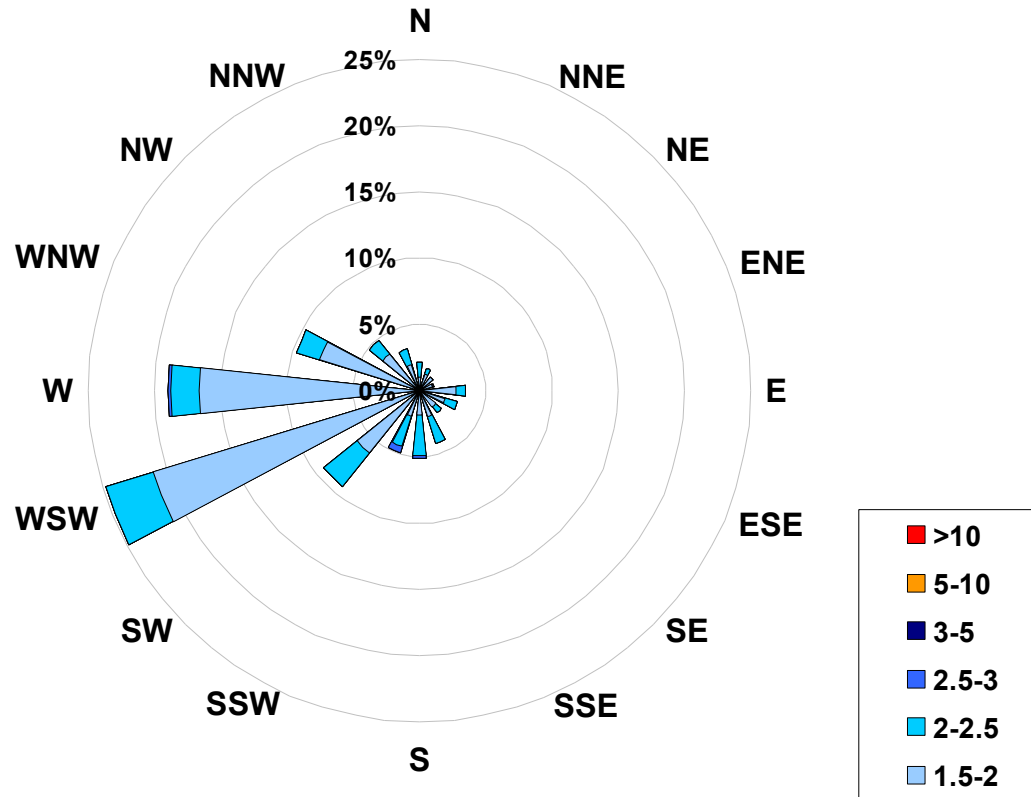


Figure 12. PASZA - Henry Pirker Total Hydrocarbons 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for July 2005**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	516
2	to	2.5	175
2.5	to	3	9
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			700

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

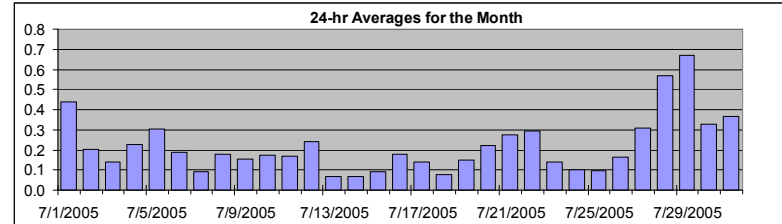
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	3.0	ppb	29-Jul	1:00 2:00
Maximum 24-hr Value:	0.7	ppb	29-Jul	

AIC Time:	33 hrs	Operational Time:	701 hrs					
Calibration Time:	10 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	1.2	0.6	0.3	0.2	0.1	0.0	0.0	0.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jul-05	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.9
2-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.4
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
4-Jul-05	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
5-Jul-05	0	0	0	0	0	A	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
6-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
7-Jul-05	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	0.1	0.2
8-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
9-Jul-05	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	0.2	0.3
10-Jul-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
11-Jul-05	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	0.2	0.3
12-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5
13-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0	0.1	0.2
14-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
15-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	C	C	A	A	1	0	0	0	0	0	0	0.1	0.9
16-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
17-Jul-05	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	0.1	0.3
18-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
19-Jul-05	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	0.1	0.6
20-Jul-05	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
21-Jul-05	A	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.8
22-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
23-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.3
24-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.2
25-Jul-05	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.9
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0.2	0.8
27-Jul-05	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.5
28-Jul-05	1	1	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0	A	0	0	0	1	0	0	1	0.6	1.3
29-Jul-05	1	3	2	1	1	0	1	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	0.7	3.0
30-Jul-05	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	1.6
31-Jul-05	0	1	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0.4	1.1
Hourly Avg	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3		
Hourly Max	1.3	3.0	2.1	0.7	1.3	1.1	0.9	0.6	0.9	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.5	0.3	0.9	0.4	0.6	0.5	1.3	0.8		

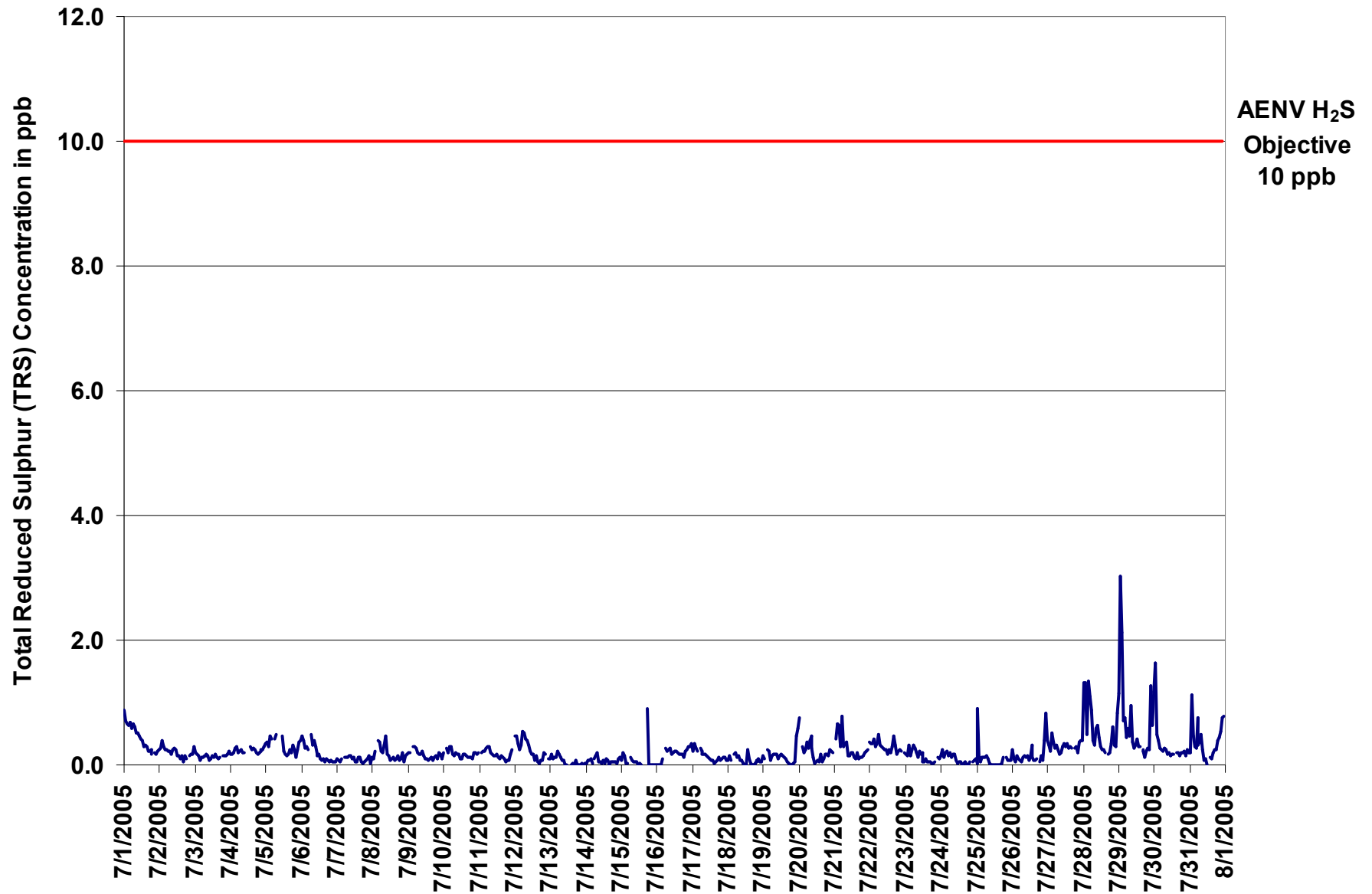


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

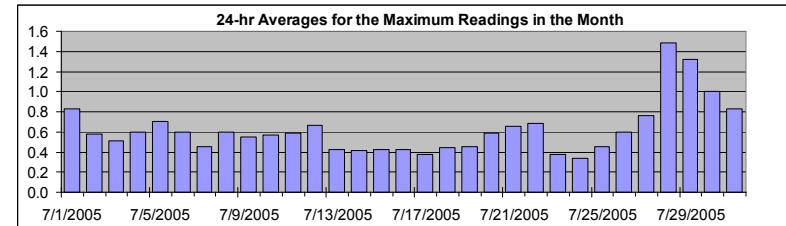
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	6.0	ppb	30-Jul	0:00 1:00
Maximum 24-hr Value:	1.5	ppb	28-Jul	

AIC Time:	33 hrs							Operational Time:	701 hrs						
Calibration Time:	10 hrs							AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average							
	4.0	1.3	0.6	0.5	0.4	0.2	0.1	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-Jul-05	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	2.0
2-Jul-05	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	0.6	0.8
3-Jul-05	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	1	1	A	1	1	0	1	1	0.5	0.6
4-Jul-05	1	1	1	1	1	1	1	1	1	0	C	C	C	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
5-Jul-05	1	1	1	1	1	A	1	1	C	C	C	1	1	1	0	1	1	1	1	1	1	1	1	1	0.7	0.9
6-Jul-05	1	1	1	1	1	A	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	1	0	0	0.6	1.0
7-Jul-05	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	0.6
8-Jul-05	0	0	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0.6	0.9
9-Jul-05	1	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0.5	0.7
10-Jul-05	1	A	1	1	1	1	1	0	1	0	1	0	0	1	1	0	1	0	1	0	1	0	1	0	0.6	0.9
11-Jul-05	A	1	0	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	1	1	1	1	A	0.6	1.1
12-Jul-05	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	1	0.7	1.5
13-Jul-05	0	1	0	0	1	1	1	0	0	0	0	0	C	C	0	0	0	1	0	0	0	0	0	1	0.4	0.6
14-Jul-05	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
15-Jul-05	0	1	1	0	1	A	1	0	0	0	0	0	0	0	C	C	A	A	1	0	0	0	0	0	0.4	1.1
16-Jul-05	0	0	0	0	0	A	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	1	0	1	0.4	0.7
17-Jul-05	0	1	1	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
18-Jul-05	0	0	0	A	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.4	3.0
19-Jul-05	0	0	A	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.3
20-Jul-05	3	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.6
21-Jul-05	A	1	2	1	1	2	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0.7	2.3
22-Jul-05	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	2	2	1	0	1	0	0	A	1	0.7	1.9
23-Jul-05	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.7
24-Jul-05	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5
25-Jul-05	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	1	0	0	1	0.5	3.1
26-Jul-05	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0	1	3	0.6	3.4
27-Jul-05	2	1	0	2	1	1	1	1	0	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	2.3
28-Jul-05	5	5	2	2	4	2	2	1	1	1	1	1	1	1	1	0	A	0	0	1	1	1	1	1	1.5	4.7
29-Jul-05	2	5	4	1	2	1	1	1	2	1	1	1	1	1	0	A	0	0	0	0	1	0	4	1	1.3	5.1
30-Jul-05	6	6	1	1	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	1	1	0	0	0	1.0	6.0
31-Jul-05	1	2	1	1	1	3	1	1	1	1	0	0	0	A	0	0	1	1	1	1	1	1	1	1	0.8	3.3
Hourly Avg	1.1	1.2	0.9	0.7	0.7	0.8	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.7	0.7		
Hourly Max	6.0	5.9	4.0	2.1	4.0	3.3	1.6	1.0	1.5	1.0	0.9	0.9	1.1	3.0	0.8	1.7	1.9	0.7	1.1	1.2	1.2	1.1	4.3	3.4		

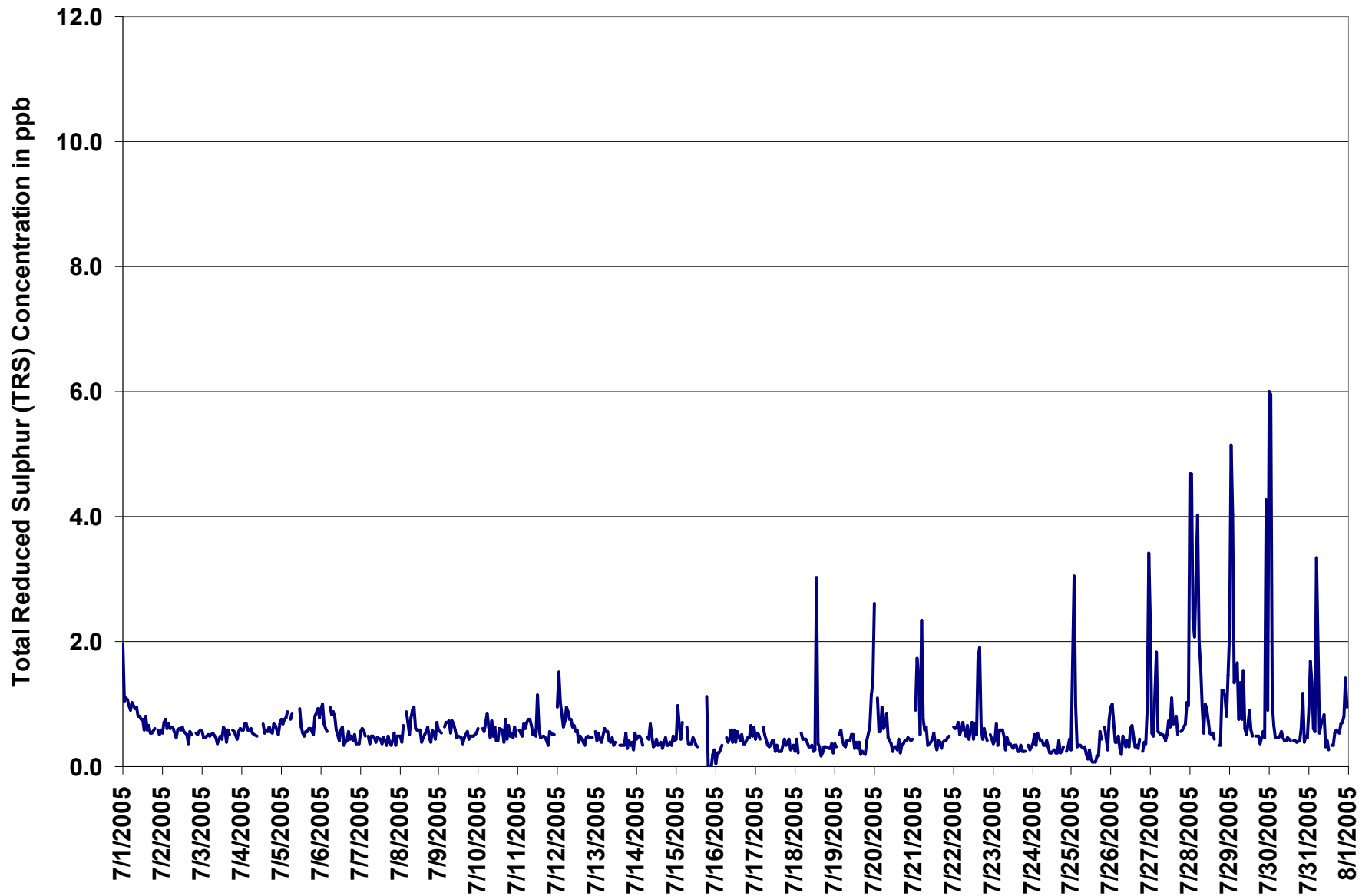
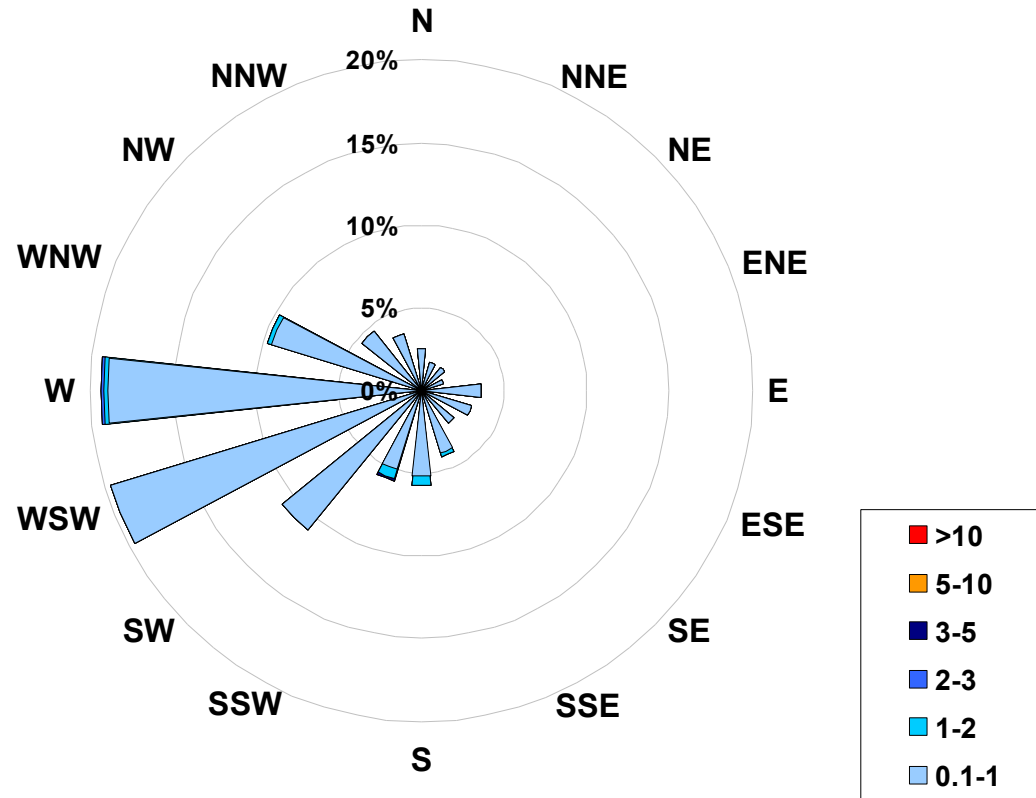


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for July 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1		690
1	to 2		9
2	to 3		1
3	to 5		1
5	to 10		0
	> 10		0
Total Non-Zero Values			701

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

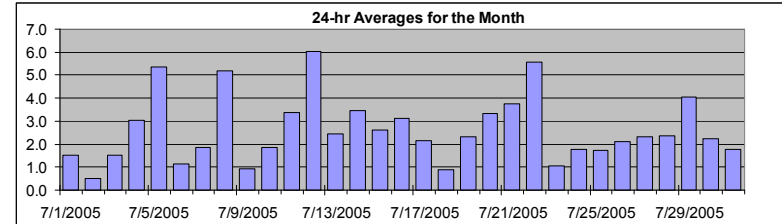
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	13.8 $\mu\text{g}/\text{m}^3$ 8-Jul 9:00 10:00
Maximum 24-hr Value:	6.0 $\mu\text{g}/\text{m}^3$ 12-Jul

AIC Time:	0 hrs	Operational Time:	733 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.2%
Percentile	99	95	75
	10.7	7.4	3.9
	50	25	5
	0.6	0.0	0.0
	1	Average	
	0.0	2.6 $\mu\text{g}/\text{m}^3$	
		Geomean	
		2.3 $\mu\text{g}/\text{m}^3$	



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jul-05	5	2	0	0	0	0	2	3	2	1	D	0	2	1	6	0	1	0	2	1	4	3	2	1	1.5	5.9	
2-Jul-05	0	1	0	1	1	1	1	0	0	0	2	0	0	0	1	0	0	0	1	1	1	2	0	0	0.5	2.3	
3-Jul-05	0	1	0	0	1	2	2	2	0	0	1	0	1	0	0	1	1	2	3	5	4	5	3	2	1.5	5.3	
4-Jul-05	3	2	1	4	3	4	6	9	5	3	1	0	3	2	1	1	2	1	2	4	5	6	4	4	3.0	8.7	
5-Jul-05	11	6	5	5	5	6	11	9	10	5	6	8	4	4	0	5	10	1	0	0	5	9	5	5.3	10.8		
6-Jul-05	3	5	0	0	0	0	2	3	5	D	0	0	D	D	0	0	0	0	1	4	0	0	1	0	1.2	4.9	
7-Jul-05	0	0	0	0	0	1	4	1	0	3	0	1	5	4	1	2	2	0	2	2	6	4	2	3	1.9	5.8	
8-Jul-05	3	4	4	3	1	5	4	9	12	14	5	7	1	4	6	6	5	6	7	6	8	4	2	0	5.2	13.8	
9-Jul-05	0	0	0	1	0	1	0	1	0	0	0	D	0	3	0	0	0	2	2	1	1	5	2	2	0.9	4.7	
10-Jul-05	1	1	1	1	2	2	2	1	1	0	0	0	1	0	2	0	0	1	3	3	9	6	6	3	1.9	8.8	
11-Jul-05	2	1	2	2	2	5	4	6	4	2	1	0	3	0	2	3	0	2	2	3	2	10	11	12	3.4	11.9	
12-Jul-05	5	9	1	4	6	10	8	12	13	12	9	5	0	6	10	3	5	4	2	6	3	4	8	0	6.0	13.0	
13-Jul-05	2	0	0	0	1	2	3	6	6	C	C	C	C	C	0	4	4	4	3	2	3	2	2	2	2.4	5.9	
14-Jul-05	2	2	2	2	2	2	4	5	4	6	3	5	4	2	2	3	3	2	2	2	9	6	5	4	3.4	8.7	
15-Jul-05	4	3	4	3	3	3	5	2	1	3	4	3	3	1	1	1	4	3	2	0	3	3	5	1	2.6	5.1	
16-Jul-05	0	0	0	0	1	1	1	1	2	3	3	4	6	5	5	4	4	3	3	6	6	6	5	4	3.1	6.3	
17-Jul-05	3	5	5	4	3	4	3	4	3	2	2	0	0	0	0	0	0	1	2	2	1	3	3	0	2.2	4.9	
18-Jul-05	2	0	1	2	2	1	2	1	0	0	0	0	0	3	2	2	1	0	2	0	0	1	0	1	0.9	3.1	
19-Jul-05	0	0	1	1	1	1	2	1	2	2	3	4	5	5	4	2	3	2	2	2	3	2	5	4	2.3	5.3	
20-Jul-05	3	2	2	2	2	3	5	8	10	4	3	1	1	1	3	6	4	3	2	3	2	3	2	2	3.3	10.5	
21-Jul-05	2	1	1	1	2	4	5	4	7	6	3	4	3	3	4	4	3	3	4	5	6	6	4	5	3.7	7.2	
22-Jul-05	3	4	3	1	2	3	8	6	6	5	5	7	5	6	6	5	9	8	6	9	9	8	7	3	5.6	9.2	
23-Jul-05	4	3	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	2	2	2	3	3	1.1	4.5	
24-Jul-05	3	2	1	1	1	1	3	5	6	4	3	1	1	1	1	1	1	1	1	1	2	2	0	0	1.8	6.2	
25-Jul-05	0	1	2	0	1	1	4	3	3	1	1	1	1	1	0	0	7	2	0	2	5	1	3	1	1.7	7.3	
26-Jul-05	2	1	0	0	0	1	3	3	5	3	2	4	4	5	2	0	0	2	2	4	3	2	2	0	2.1	5.5	
27-Jul-05	0	0	0	1	0	1	2	3	3	4	3	5	4	3	2	7	5	4	1	1	2	2	1	0	2.3	6.6	
28-Jul-05	0	0	0	0	1	3	5	8	4	4	4	3	4	0	0	0	0	2	1	4	4	3	3	3	2.4	7.8	
29-Jul-05	1	3	2	4	5	4	7	10	6	7	5	5	2	4	2	0	0	3	1	5	4	3	7	7	4.0	9.8	
30-Jul-05	10	7	3	3	2	2	2	2	2	3	1	1	0	0	0	1	2	4	0	3	1	0	1	3	2	2.3	9.7
31-Jul-05	2	2	2	0	0	0	4	4	6	4	1	0	D	1	0	0	3	0	1	4	1	3	0	1	1.8	6.0	
Hourly Avg	2.5	2.3	1.3	1.4	1.6	2.4	3.7	4.2	4.2	3.5	2.6	2.3	2.3	2.2	2.1	2.0	2.7	2.0	2.1	2.9	3.4	3.8	3.6	2.4			
Hourly Max	10.8	9.3	4.8	5.3	6.5	9.9	10.6	11.6	13.0	13.8	9.3	8.0	5.9	6.3	9.7	6.6	10.4	7.6	6.6	8.9	9.0	10.4	10.9	11.9			

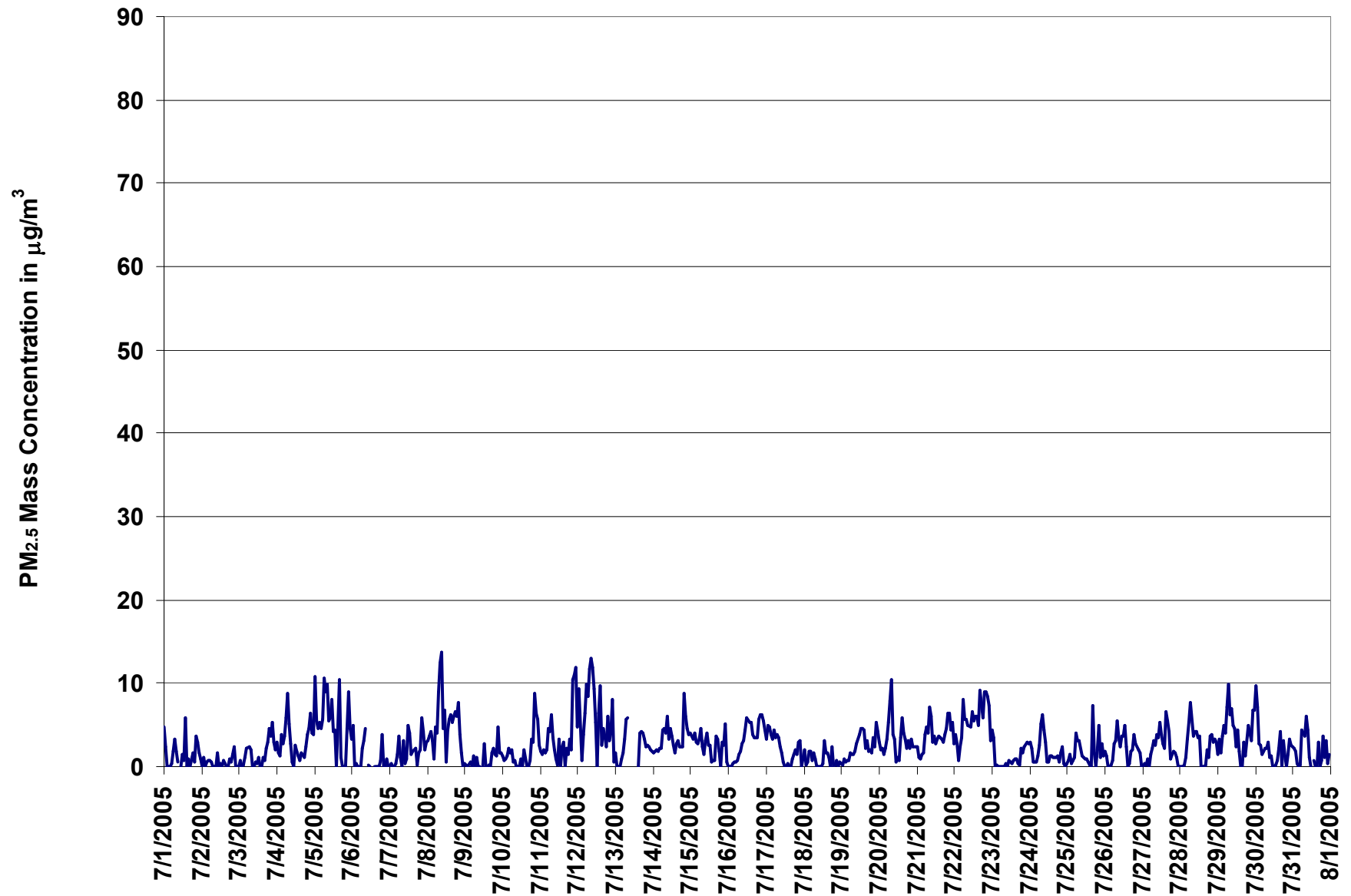


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

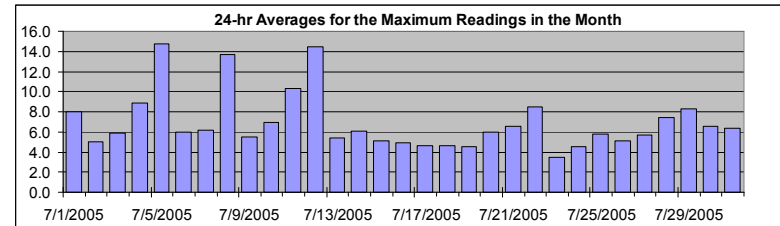
HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	38.4	µg/m ³	12-Jul	14:00 15:00
Maximum 24-hr Value:	14.8	µg/m ³	5-Jul	



AIC Time:	0 hrs	Operational Time:	733 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	23.3	15.9	8.7	5.8	3.8	1.9	1.2	7.0 µg/m ³	6.5 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-05	13	6	9	0	2	5	8	9	7	8	D	8	7	10	15	5	11	8	9	8	10	18	6	4	8.0	18.2
2-Jul-05	4	4	2	3	3	4	3	4	5	4	10	4	9	9	6	9	4	6	9	3	4	4	3	3	5.0	10.0
3-Jul-05	2	2	2	3	4	4	5	5	2	4	4	6	8	11	8	7	7	9	9	9	7	11	5	5	5.9	11.2
4-Jul-05	6	6	5	12	8	7	9	15	14	7	6	5	8	9	8	9	8	6	8	9	9	15	9	12	8.8	15.5
5-Jul-05	25	16	12	13	13	13	16	14	19	14	14	18	16	11	13	21	29	11	12	9	7	11	16	10	14.8	29.4
6-Jul-05	6	9	3	2	2	3	5	6	21	D	5	9	D	7	6	7	5	6	9	5	4	3	3	3	6.0	21.0
7-Jul-05	3	2	1	2	3	5	7	4	5	7	4	5	21	14	7	6	8	5	5	6	11	6	4	6	6.1	21.1
8-Jul-05	10	6	10	16	6	15	15	17	26	18	24	21	6	10	11	11	14	12	16	12	15	21	10	4	13.7	26.3
9-Jul-05	3	3	3	3	2	3	3	6	3	5	D	4	26	2	4	7	2	9	8	5	6	12	4	4	5.5	26.2
10-Jul-05	4	4	3	6	5	4	5	3	5	6	3	5	6	5	16	8	6	7	14	10	14	12	9	7	6.9	15.8
11-Jul-05	6	4	4	5	5	14	10	12	10	6	6	4	15	8	12	10	5	11	7	11	16	19	18	30	10.3	30.1
12-Jul-05	11	22	8	7	10	14	12	18	21	18	19	15	9	12	38	22	13	13	8	15	11	10	12	6	14.4	38.4
13-Jul-05	5	2	1	1	4	6	9	13	10	C	C	C	C	C	2	10	8	6	5	5	5	4	3	4	5.4	12.8
14-Jul-05	2	3	4	4	4	3	6	7	8	8	6	7	7	4	4	6	6	4	4	5	17	13	7	6	6.1	17.5
15-Jul-05	7	5	6	4	5	5	7	6	5	5	7	5	5	6	3	2	6	5	4	2	5	5	7	4	5.1	7.5
16-Jul-05	1	1	1	1	2	2	2	3	3	5	5	6	8	7	10	6	5	6	6	8	8	9	7	7	5.0	9.6
17-Jul-05	5	7	7	6	6	7	5	5	5	5	4	4	2	2	3	1	1	4	3	3	3	5	11	8	4.6	10.8
18-Jul-05	8	3	3	4	4	3	5	4	3	2	4	2	5	14	14	5	6	4	5	3	3	5	1	3	4.6	14.0
19-Jul-05	2	2	2	2	2	2	3	3	3	3	4	5	8	8	7	7	7	5	4	4	6	5	8	7	4.5	8.3
20-Jul-05	5	3	4	2	4	5	7	12	13	8	7	4	5	3	6	11	11	6	4	5	5	6	4	5	6.0	13.0
21-Jul-05	4	4	2	3	3	8	6	11	10	10	6	7	5	6	7	7	6	4	6	8	8	11	7	9	6.6	11.2
22-Jul-05	4	6	5	3	5	6	11	9	9	6	8	9	8	9	9	7	13	10	7	15	13	11	9	8	8.5	14.7
23-Jul-05	8	5	9	5	2	0	1	2	1	2	2	3	3	2	3	3	3	3	3	5	4	4	5	4	3.5	9.4
24-Jul-05	5	6	3	2	2	3	4	11	11	8	7	3	3	4	6	5	4	3	4	3	3	4	2	1	4.5	11.5
25-Jul-05	5	6	3	2	2	3	10	6	5	5	3	4	4	3	3	3	16	8	5	10	14	4	7	4	5.8	16.1
26-Jul-05	4	2	0	2	2	5	5	6	9	8	4	12	6	8	9	2	3	5	5	6	12	4	3	2	5.1	12.0
27-Jul-05	2	2	2	2	2	3	8	9	5	6	7	10	8	8	6	19	13	7	3	4	3	3	3	1	5.7	19.3
28-Jul-05	2	2	4	3	4	6	8	26	7	8	9	8	21	5	4	4	4	6	5	13	7	7	6	7	7.4	25.8
29-Jul-05	3	5	5	6	7	6	9	12	9	11	9	8	7	10	12	11	4	8	8	8	7	7	12	13	8.3	12.6
30-Jul-05	20	18	7	6	4	4	4	4	7	6	5	1	4	4	4	8	10	8	6	7	8	3	7	4	6.6	20.3
31-Jul-05	5	5	4	3	3	3	9	7	8	9	7	5	D	6	5	3	11	4	5	14	8	10	3	7	6.4	14.1
Hourly Avg	6.2	5.6	4.3	4.3	4.2	5.5	7.1	8.7	8.7	7.3	7.2	6.9	8.6	7.3	8.4	7.8	8.1	6.7	6.6	7.5	8.2	8.5	6.9	6.5		
Hourly Max	25.3	22.2	12.4	16.3	12.7	15.3	15.8	25.8	26.3	18.2	23.8	21.2	26.2	14.0	38.4	22.0	29.4	13.4	16.3	15.1	17.5	21.4	18.3	30.1		

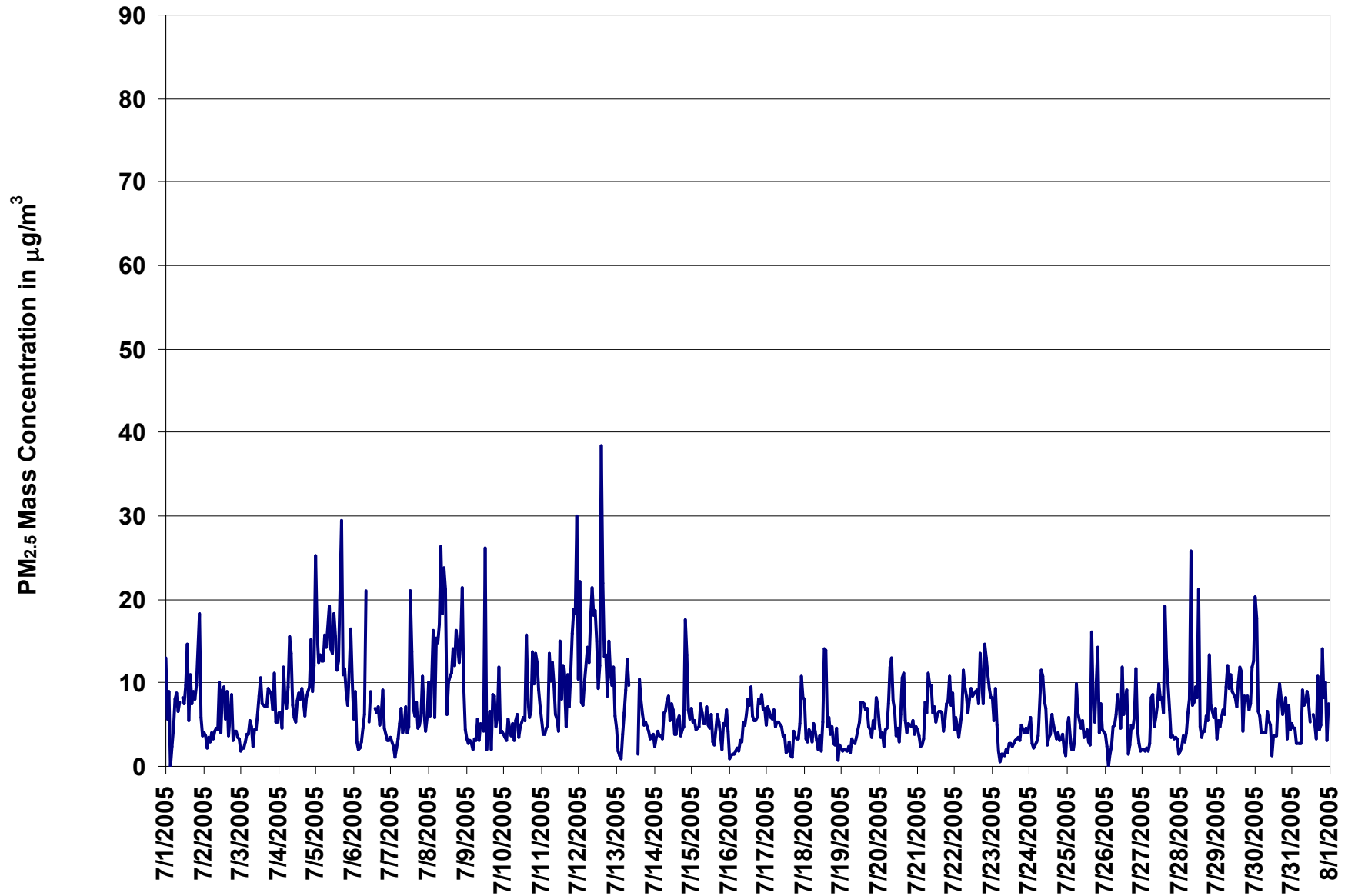
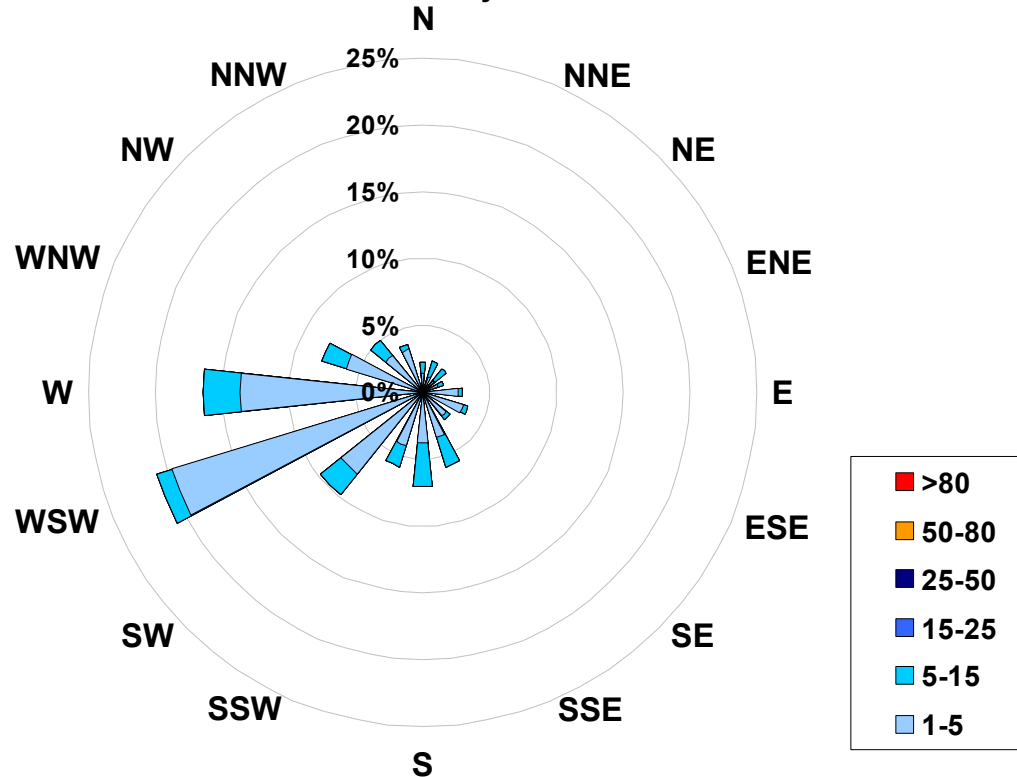


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 July 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	627	
5	to 15	106	
15	to 25	0	
25	to 50	0	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			733

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

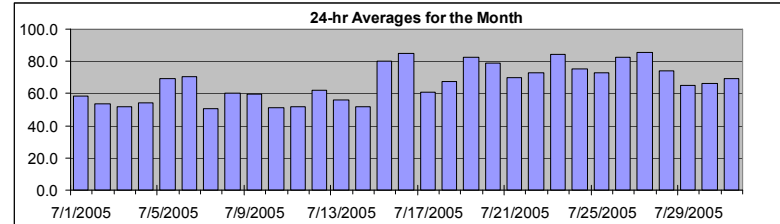
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	97.0 %	28-Jul	3:00 4:00
Maximum 24-hr Value:	85.6 %	27-Jul	



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
	96.0	94.1	84.0	67.2	51.2	37.4	34.2	66.9 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	80	88	86	86	88	88	76	70	65	59	48	38	38	42	43	41	40	38	41	44	52	56	62		58.6	88.5	
2-Jul-05	61	66	69	73	75	72	65	58	54	48	46	43	40	40	38	40	40	40	42	44	49	56	61	62		53.4	75.0
3-Jul-05	64	67	67	64	64	65	63	59	53	48	44	43	41	38	36	37	36	39	41	44	51	58	60	60		51.8	66.9
4-Jul-05	64	65	67	74	77	71	65	60	56	51	47	42	39	41	41	39	41	42	45	51	58	60	64		54.3	77.4	
5-Jul-05	70	76	81	81	82	81	78	75	67	63	58	54	47	49	47	49	72	74	68	68	67	74	86	91		69.2	91.4
6-Jul-05	94	95	94	95	95	94	94	93	91	87	83	78	67	55	48	44	43	39	43	49	49	51	56	59		70.7	95.0
7-Jul-05	62	65	67	69	69	67	63	58	51	48	45	42	41	38	37	37	37	36	36	37	45	51	54	56		50.5	69.4
8-Jul-05	62	63	66	71	71	73	66	59	61	59	50	53	47	42	45	48	47	52	56	55	59	77	86	86		60.5	86.2
9-Jul-05	91	92	86	89	89	87	73	68	65	61	46	40	48	41	38	39	37	36	42	43	45	53	58	62		59.5	91.9
10-Jul-05	62	65	67	70	73	71	63	57	53	47	42	39	37	34	34	33	33	31	36	40	54	61	61	62		51.2	73.0
11-Jul-05	68	70	72	75	77	78	76	62	51	46	43	39	36	34	35	34	36	32	35	35	39	48	59	67		51.9	77.8
12-Jul-05	74	81	75	75	84	90	77	66	65	61	56	50	35	36	52	44	41	49	51	57	60	65	70	68		61.7	90.0
13-Jul-05	75	78	78	77	80	75	70	66	64	56	49	44	46	44	41	36	38	37	42	43	46	51	54	59		56.2	80.2
14-Jul-05	63	66	67	68	66	65	63	59	51	45	42	39	37	35	34	36	38	40	44	46	52	59	64	65		51.8	68.0
15-Jul-05	70	75	75	75	78	88	91	93	92	88	81	75	72	72	62	62	75	78	76	78	85	91	94	90		79.9	94.1
16-Jul-05	83	85	86	88	90	91	91	91	92	93	91	90	84	83	82	78	79	73	69	71	81	87	88	91		84.9	93.3
17-Jul-05	92	93	94	93	92	89	82	76	71	62	55	48	43	38	37	35	32	33	37	40	46	53	56	67		61.0	93.6
18-Jul-05	76	84	87	88	89	84	74	68	58	53	50	45	41	51	54	56	61	65	69	64	72	78	75	77		67.4	88.8
19-Jul-05	78	81	84	85	83	83	90	92	93	93	91	89	87	82	75	72	75	74	69	70	80	86	86	87		82.6	93.0
20-Jul-05	91	92	93	93	94	95	95	88	82	72	66	56	50	47	51	60	70	84	84	85	85	88	88	88		79.1	94.6
21-Jul-05	89	92	93	95	95	95	94	88	79	73	62	56	53	49	47	48	46	47	49	52	60	63	67	79		69.7	95.4
22-Jul-05	82	84	86	91	91	91	85	74	70	65	60	58	55	56	58	54	55	60	62	76	83	83	85	91		73.2	91.4
23-Jul-05	93	93	95	94	93	92	92	87	83	81	81	78	75	74	72	73	80	82	79	82	85	85	85	87		84.2	94.8
24-Jul-05	90	91	93	93	94	94	95	95	90	70	64	61	57	56	56	59	54	52	54	65	75	81	83	88		75.4	95.0
25-Jul-05	90	92	92	91	89	88	88	78	72	63	57	52	49	46	43	40	63	77	66	71	79	83	88	89		72.6	91.8
26-Jul-05	92	93	94	95	95	95	95	93	90	86	83	82	78	75	72	60	59	61	63	69	84	90	91	93		82.7	94.9
27-Jul-05	95	96	95	95	95	96	96	94	86	82	78	65	60	60	57	68	89	88	90	91	93	94	95	96		85.6	96.2
28-Jul-05	96	97	97	97	97	97	97	85	78	70	62	58	78	65	56	57	53	58	53	57	65	65	69	77		74.3	97.0
29-Jul-05	78	87	83	84	85	84	79	76	78	64	59	57	56	77	61	45	38	39	38	46	53	56	69	72		65.1	86.6
30-Jul-05	75	77	80	84	80	82	83	78	70	60	58	47	44	43	41	45	60	57	63	69	67	70	76	84		66.4	84.1
31-Jul-05	87	90	91	91	94	96	94	88	83	73	61	51	42	42	41	41	46	46	47	59	62	70	81	86		69.4	95.6
Hourly Avg	79.0	81.9	82.6	83.8	84.8	84.4	81.0	75.9	71.4	65.4	60.0	55.3	52.4	51.0	49.5	48.9	52.0	53.6	54.2	57.8	63.4	68.9	72.9	76.3			
Hourly Max	96.2	96.8	96.9	97.0	96.9	96.9	96.6	95.0	92.6	93.3	91.5	89.5	86.7	83.1	81.8	78.1	89.1	88.0	90.4	91.1	92.6	93.6	94.8	95.7			

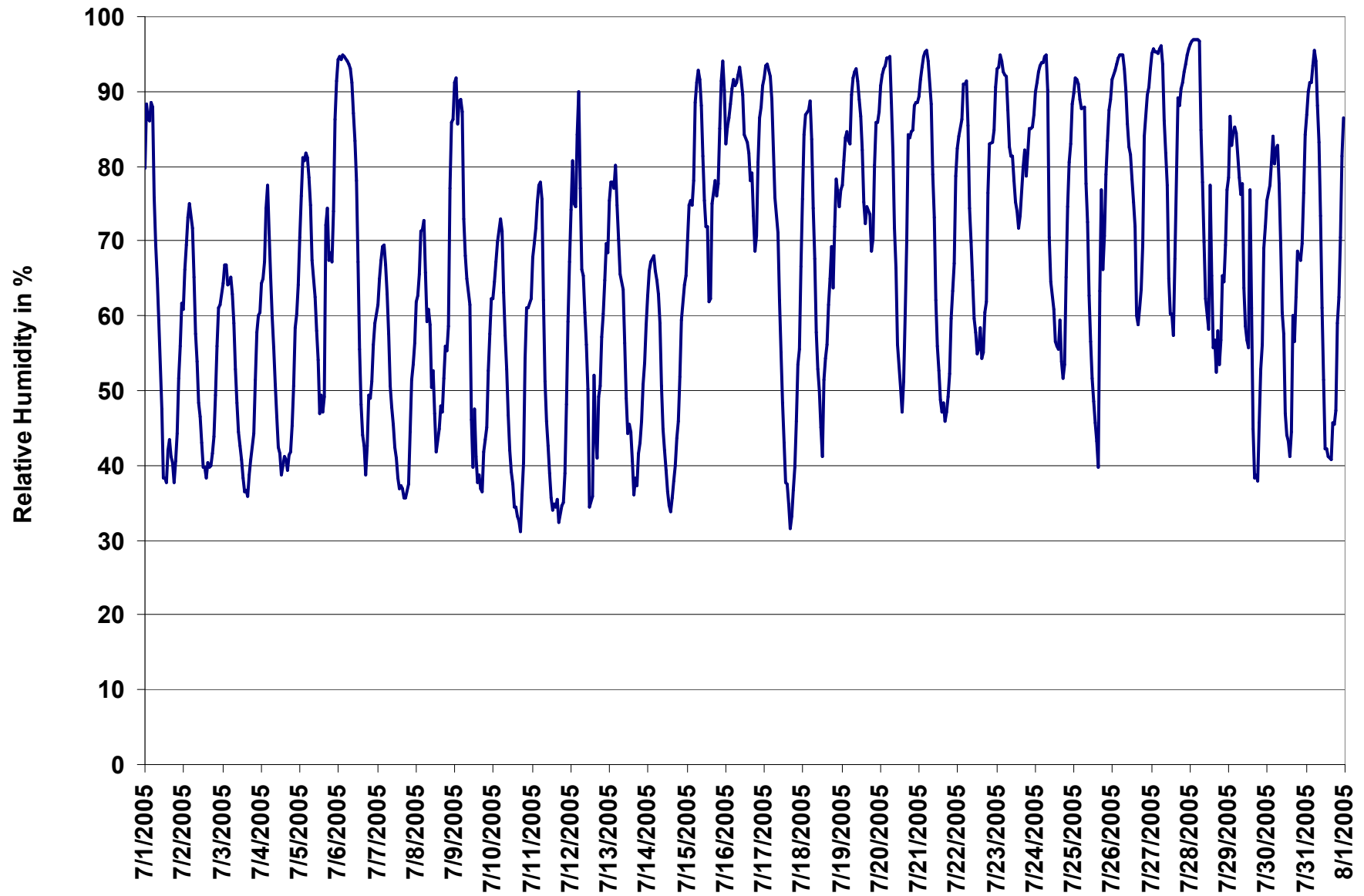


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

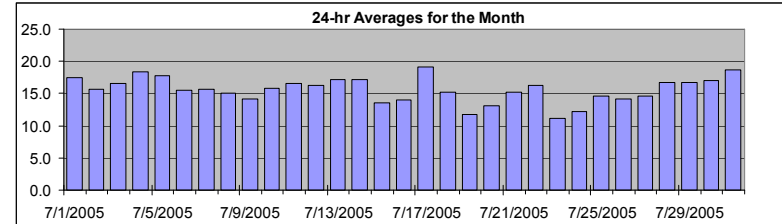
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	25.8 °C	17-Jul	17:00 18:00
Maximum 24-hr Value:	19.2 °C	17-Jul	



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
	24.4	22.6	19.2	15.2	12.1	9.2	7.3	15.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jul-05	14	13	12	11	10	10	13	15	17	18	21	22	23	23	22	21	21	21	22	21	20	17	16	14	17.4	22.8	
2-Jul-05	13	12	11	10	9	10	12	14	15	16	18	19	20	20	21	20	20	20	19	18	17	15	13	13	15.7	20.9	
3-Jul-05	12	12	12	13	13	13	13	15	16	17	18	19	20	21	21	21	21	21	19	19	17	16	15	15	16.5	21.1	
4-Jul-05	14	13	13	11	11	12	14	16	17	19	21	21	22	23	22	23	24	23	23	22	21	19	19	17	18.3	23.7	
5-Jul-05	16	15	14	14	14	14	15	16	18	19	20	22	24	23	23	22	18	19	19	19	18	16	15	14	17.8	24.0	
6-Jul-05	13	13	13	13	13	13	13	13	14	14	15	16	17	17	19	20	20	20	19	17	17	15	14	13	15.5	20.1	
7-Jul-05	12	11	11	10	10	11	12	14	16	16	17	18	18	19	20	20	20	20	20	19	18	16	15	13	15.6	20.2	
8-Jul-05	12	12	11	10	10	10	12	14	15	16	19	19	19	20	20	19	20	19	18	19	17	11	10	10	15.0	20.1	
9-Jul-05	9	9	9	8	7	7	11	12	13	14	17	19	18	19	20	19	19	20	18	18	16	15	13	12	14.2	19.6	
10-Jul-05	12	11	10	9	9	9	12	14	15	17	18	19	20	21	21	22	22	22	20	18	16	14	13	13	15.8	21.6	
11-Jul-05	11	11	10	9	8	8	9	13	16	18	19	20	21	22	22	23	22	23	22	23	21	18	15	14	16.5	23.0	
12-Jul-05	12	10	10	9	8	7	11	14	15	17	18	19	20	21	24	24	20	23	23	20	20	19	18	15	15	16.2	24.3
13-Jul-05	13	12	11	11	11	12	13	14	15	18	20	21	21	22	22	23	22	22	21	20	18	17	16	15	17.2	23.0	
14-Jul-05	14	13	13	13	13	13	14	15	17	18	19	20	21	21	22	21	21	21	19	19	18	16	14	14	17.1	21.7	
15-Jul-05	13	12	12	12	12	11	11	11	12	13	14	16	16	16	17	17	15	15	15	14	13	12	13	13	13.5	17.3	
16-Jul-05	12	12	11	11	11	10	11	11	11	12	13	14	15	15	16	17	17	18	19	19	17	15	15	13	14.0	19.3	
17-Jul-05	12	12	12	12	11	12	13	15	17	20	22	23	24	25	25	26	26	26	25	24	22	20	19	16	19.2	25.8	
18-Jul-05	15	14	14	14	14	14	15	16	17	18	19	19	18	18	17	16	14	14	15	13	12	11	10	15.2	19.4		
19-Jul-05	10	10	10	10	10	10	9	9	10	10	11	12	12	14	17	16	15	14	15	14	12	11	11	11	11.8	16.5	
20-Jul-05	10	10	10	10	9	9	9	11	12	15	17	19	20	20	19	17	15	13	13	13	13	11	11	10	13.1	20.0	
21-Jul-05	10	10	9	8	8	8	9	11	14	15	17	18	19	20	21	20	21	21	20	19	18	17	15	14	15.2	21.2	
22-Jul-05	13	12	12	9	9	9	12	16	17	19	20	21	22	21	21	20	20	19	17	16	16	16	14	16.3	21.6		
23-Jul-05	13	13	12	12	11	11	10	10	11	12	11	12	12	12	13	13	11	11	11	10	9	9	8	8	11.1	13.2	
24-Jul-05	8	7	6	6	5	5	6	7	10	13	15	17	18	18	18	17	18	19	18	15	13	12	12	10	12.2	19.1	
25-Jul-05	9	9	9	9	9	9	10	12	14	17	18	20	21	22	22	22	17	15	17	16	15	14	13	13	14.6	22.0	
26-Jul-05	12	12	11	11	11	11	11	12	12	14	14	15	16	17	18	18	19	18	18	17	14	13	13	12	14.2	18.7	
27-Jul-05	11	11	10	11	10	10	11	12	14	16	17	19	20	20	20	18	16	16	16	15	15	14	14	14	14.7	20.2	
28-Jul-05	13	12	12	11	11	11	11	14	15	18	20	22	16	18	20	21	22	21	22	21	19	17	16	14	16.7	22.1	
29-Jul-05	13	12	12	11	11	11	13	14	14	18	20	21	21	15	20	23	23	23	22	21	19	17	14	13	16.7	23.3	
30-Jul-05	13	13	12	12	12	12	12	13	16	19	19	21	21	22	23	23	20	20	19	18	17	16	15	15	17.0	23.5	
31-Jul-05	15	14	14	14	13	12	14	15	16	19	21	23	23	24	25	24	24	24	23	21	20	18	15	15	18.6	24.7	
Hourly Avg	12.3	11.6	11.2	10.7	10.4	10.5	11.6	13.3	14.7	16.3	17.8	18.9	19.5	19.8	20.2	20.3	19.6	19.2	18.9	18.1	16.6	15.1	14.1	13.1			
Hourly Max	16.0	14.7	14.1	14.0	13.7	13.8	14.8	16.2	18.2	19.8	21.7	23.1	24.2	25.3	25.1	25.7	25.8	25.8	25.1	24.1	22.1	20.3	19.4	17.4			

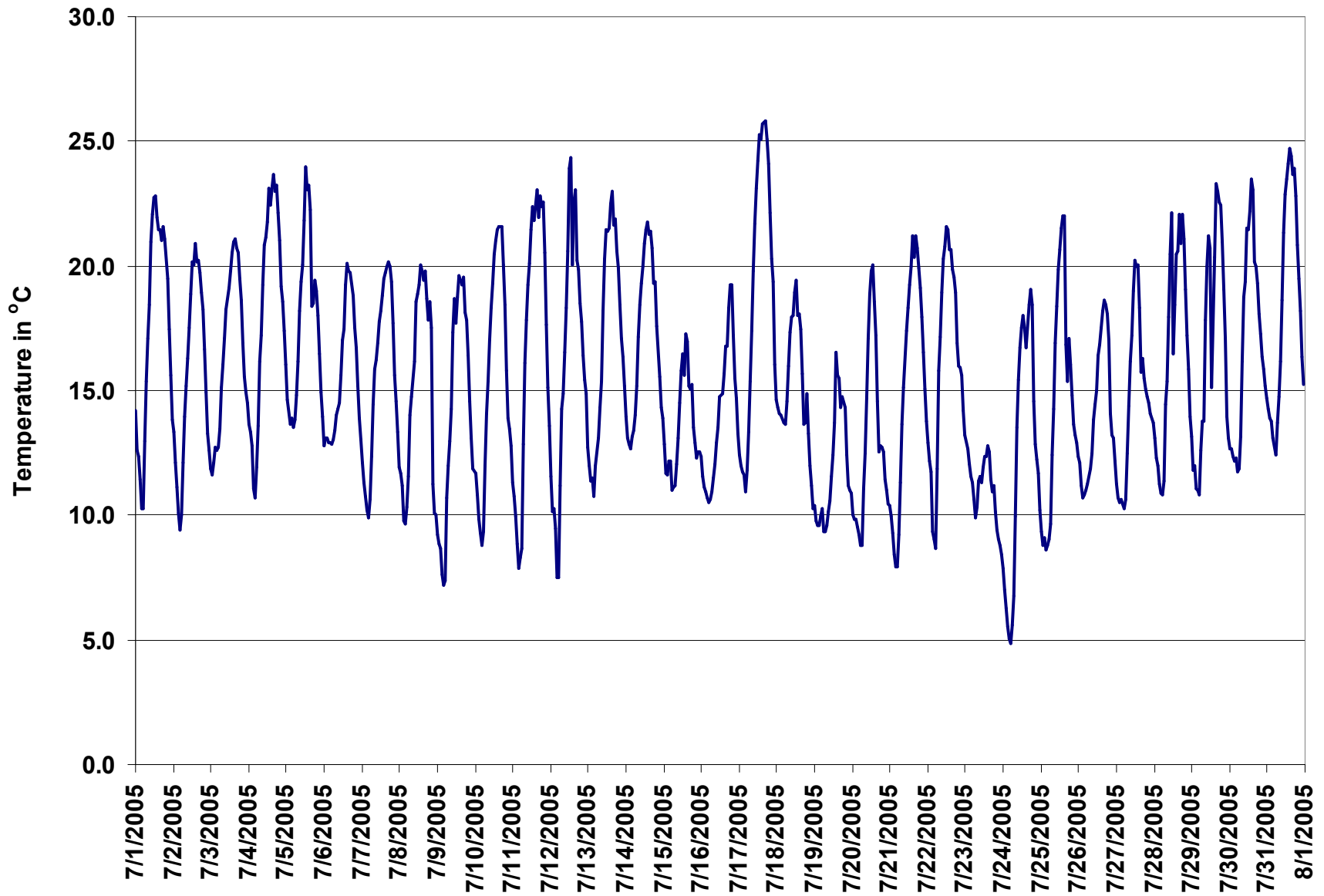


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

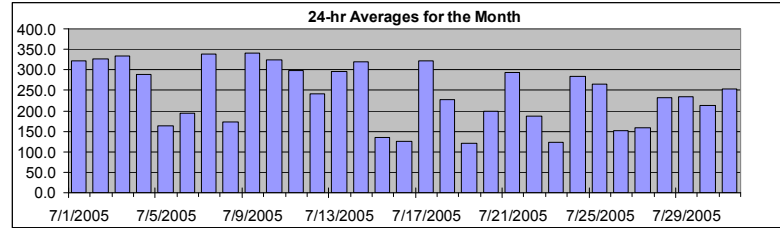
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	907.0	W/m ²	4-Jul	13:00 14:00
Maximum 24-hr Value:	341.8	W/m ²	9-Jul	



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
	861.5	792.7	442.9	120.3	0.4	0.0	0.0	241.3 W/m ²

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	0	0	0	0	2	22	191	321	477	486	736	833	834	758	773	778	606	371	301	204	45	8	0	0	322.7	833.6
2-Jul-05	0	0	0	0	7	68	169	310	497	633	754	827	836	675	761	593	595	499	358	216	47	5	0	0	327.0	835.6
3-Jul-05	0	0	0	0	6	65	201	409	453	596	745	822	861	862	824	699	536	415	304	161	47	7	0	0	333.9	861.7
4-Jul-05	0	0	0	0	12	55	197	280	422	623	693	513	688	907	504	542	585	359	318	170	60	6	1	0	288.9	907.0
5-Jul-05	0	0	0	1	10	49	89	199	317	341	291	485	639	359	285	206	170	175	172	111	34	5	0	0	164.1	638.6
6-Jul-05	0	0	0	0	5	23	56	47	70	112	188	288	498	372	731	716	633	464	264	106	60	5	0	0	193.3	731.1
7-Jul-05	0	0	0	0	0	17	192	305	489	633	762	809	797	859	818	728	628	496	350	208	47	6	0	0	339.3	859.2
8-Jul-05	0	0	0	0	3	26	68	215	269	329	443	500	431	386	303	318	290	173	105	212	63	0	0	0	172.2	500.1
9-Jul-05	0	0	0	D	1	27	259	323	317	487	756	854	820	670	843	741	613	538	351	206	51	3	0	0	341.8	854.5
10-Jul-05	0	0	0	0	2	23	187	300	486	629	744	792	872	865	749	624	627	471	261	110	34	4	0	0	324.1	872.0
11-Jul-05	0	0	0	0	3	39	71	295	483	626	735	556	779	874	626	812	241	403	344	200	42	4	0	0	297.2	874.4
12-Jul-05	0	0	0	0	2	25	175	271	228	259	322	582	859	681	410	823	628	192	225	75	31	2	0	0	241.3	859.0
13-Jul-05	0	0	0	0	0	10	34	143	223	514	760	816	881	777	839	698	342	503	320	186	43	6	0	0	295.5	880.9
14-Jul-05	0	0	0	0	3	36	145	232	449	600	682	803	853	872	793	729	577	418	204	211	58	5	0	0	319.7	872.2
15-Jul-05	0	0	0	0	1	10	23	53	144	254	457	393	325	251	394	295	204	230	152	54	18	1	0	0	135.8	456.6
16-Jul-05	0	0	0	0	2	21	45	91	80	60	113	200	258	192	322	339	238	450	342	197	45	4	0	0	125.0	449.8
17-Jul-05	0	0	0	0	3	22	149	262	428	598	709	765	840	845	752	721	614	480	332	175	20	3	0	0	321.7	845.3
18-Jul-05	0	0	0	0	1	16	153	271	466	501	422	602	475	727	600	501	265	99	103	185	50	3	0	0	226.6	726.5
19-Jul-05	0	0	0	0	2	15	18	38	63	88	104	223	154	357	774	250	333	187	178	82	19	3	0	0	120.4	773.6
20-Jul-05	0	0	0	0	1	15	43	181	358	330	704	795	849	614	196	199	119	106	169	65	36	2	0	0	199.2	849.4
21-Jul-05	0	0	0	0	2	35	94	226	439	489	716	732	816	703	783	524	595	442	240	142	39	2	0	1	292.5	816.3
22-Jul-05	0	0	0	0	1	18	141	237	438	574	640	530	566	464	313	284	138	102	45	5	3	0	1	0	187.5	639.8
23-Jul-05	0	0	0	0	0	8	16	132	221	243	192	340	305	294	370	276	173	181	142	41	9	2	0	0	122.6	369.7
24-Jul-05	0	0	0	0	0	15	52	167	386	598	686	736	880	734	447	605	608	474	290	104	17	1	0	0	283.4	880.2
25-Jul-05	0	0	0	0	0	20	54	249	395	559	680	798	809	821	729	583	54	278	245	68	14	1	0	0	264.9	821.2
26-Jul-05	0	0	0	0	1	17	64	91	105	277	226	408	491	456	350	370	374	243	133	36	5	0	0	0	151.9	490.5
27-Jul-05	0	0	0	0	1	20	114	204	392	491	430	551	499	385	302	112	143	90	47	11	10	1	0	0	158.5	550.6
28-Jul-05	0	0	0	0	1	19	70	258	248	568	681	603	183	582	782	407	430	375	223	120	16	1	0	0	232.0	782.2
29-Jul-05	0	0	0	0	1	14	119	211	202	543	657	574	242	290	786	655	509	388	290	117	29	1	0	0	234.5	786.2
30-Jul-05	0	0	0	0	0	22	52	147	435	492	494	763	547	540	652	515	167	144	84	51	18	0	0	0	213.5	763.0
31-Jul-05	0	0	0	0	0	22	111	149	339	488	675	776	767	758	678	497	290	354	112	29	5	0	0	0	252.1	776.1
Hourly Avg	0.0	0.0	0.0	0.0	2.4	25.7	108.1	213.4	332.9	452.3	554.8	621.6	634.0	610.7	596.4	520.7	397.6	325.8	225.9	124.5	32.7	2.9	0.0	0.0		
Hourly Max	0.5	0.5	0.5	0.7	12.1	68.2	259.0	408.9	497.5	632.9	761.6	854.5	880.9	907.0	842.8	822.7	632.8	538.3	358.4	215.5	63.0	8.2	0.5	0.5		

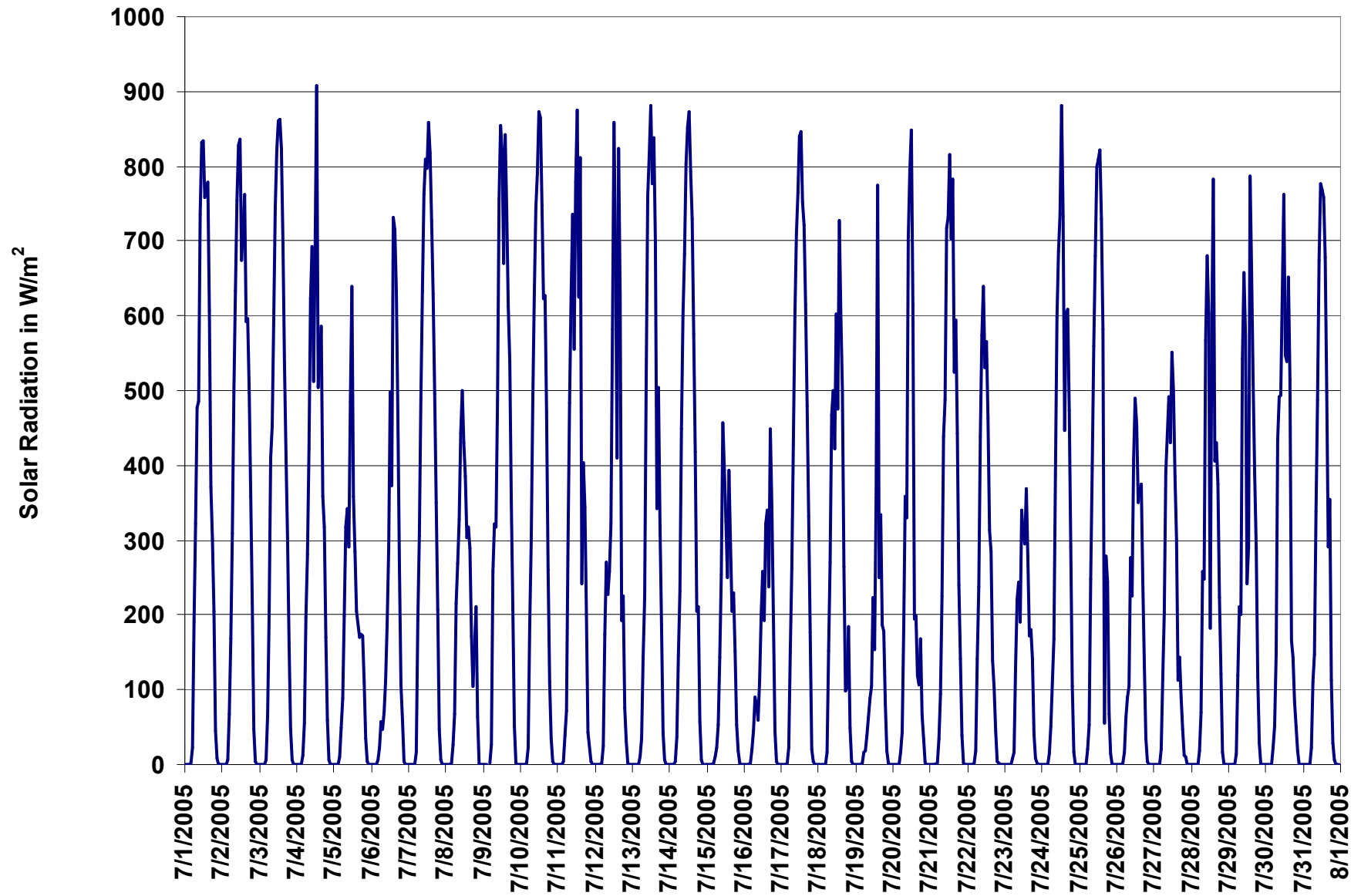


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

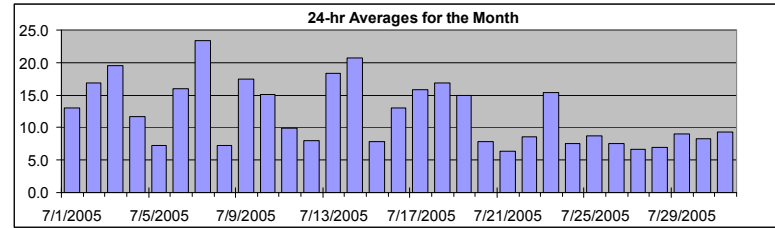
Wind Speed (WSs)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	38.1	km/hr	7-Jul	11:00 12:00
Maximum 24-hr Value:	23.4	km/hr	7-Jul	

Calm Time:	0 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	1 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	32.8	27.2	16.1	9.8	6.6	4.3	3.4	12.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	7	5	8	8	4	6	8	10	15	13	14	18	16	17	25	22	20	17	12	11	8	17	18	17	13.1	25.1	
2-Jul-05	19	15	15	13	7	11	13	14	17	19	19	15	15	18	17	20	23	26	24	23	21	15	12	13	16.8	25.6	
3-Jul-05	12	13	15	16	21	18	18	18	27	28	29	27	25	24	25	24	26	23	24	16	11	9	10	9	19.5	28.6	
4-Jul-05	7	7	7	6	7	8	8	9	11	11	13	C	20	20	19	15	16	16	17	15	11	9	8	6	11.6	20.4	
5-Jul-05	4	5	5	4	5	5	5	5	7	6	8	8	10	13	11	15	16	5	5	9	7	6	5	3	7.2	15.7	
6-Jul-05	4	5	6	4	6	7	7	5	7	15	11	15	21	23	27	27	31	31	28	21	25	24	19	17	16.0	31.2	
7-Jul-05	16	14	14	13	14	14	13	18	31	36	37	38	36	36	35	35	31	30	29	27	15	10	11	8	23.4	38.1	
8-Jul-05	5	6	5	6	4	4	6	6	7	5	7	9	8	6	7	8	6	9	8	7	12	20	8	6	7.3	19.7	
9-Jul-05	5	7	6	6	6	6	13	17	18	17	26	23	26	24	28	27	27	26	29	24	21	14	12	12	17.4	28.7	
10-Jul-05	11	11	10	9	9	10	11	19	24	23	22	21	18	18	18	19	19	20	22	14	9	7	8	10	15.1	23.7	
11-Jul-05	10	10	7	6	4	5	5	7	15	19	18	14	16	16	16	11	6	12	11	7	6	5	6	5	9.9	18.9	
12-Jul-05	5	4	6	5	4	4	3	6	5	4	5	8	8	10	17	17	14	11	9	8	8	8	10	14	8.1	16.9	
13-Jul-05	7	8	10	6	7	8	7	6	9	16	23	25	26	27	26	28	29	30	34	28	23	18	23	17	18.4	33.6	
14-Jul-05	15	14	12	12	15	17	19	26	32	29	28	28	28	30	31	26	28	27	24	16	12	8	7	20.7	31.8		
15-Jul-05	6	5	4	7	9	8	7	6	5	8	11	8	9	9	8	11	13	13	12	7	6	5	5	8	7.9	13.4	
16-Jul-05	10	9	10	11	12	10	13	14	15	12	18	19	21	19	17	13	9	12	14	15	11	10	9	7	13.0	20.8	
17-Jul-05	7	8	7	9	6	10	9	11	13	19	20	20	20	19	22	21	24	22	26	23	16	9	15	24	15.9	25.5	
18-Jul-05	15	11	15	13	11	11	10	13	18	21	20	21	24	24	18	21	20	28	20	17	13	11	15	12	16.8	27.6	
19-Jul-05	16	17	16	18	18	23	21	20	20	17	21	18	13	11	15	15	15	16	16	11	7	5	6	4	15.0	22.6	
20-Jul-05	4	4	5	4	3	5	4	3	6	7	9	10	12	14	11	14	13	14	9	8	9	8	9	6	7.9	13.9	
21-Jul-05	6	3	3	3	4	3	4	5	6	6	5	7	7	7	7	9	8	10	10	11	9	7	7	6	6.4	10.9	
22-Jul-05	6	6	6	6	6	5	5	5	5	7	8	11	12	13	13	12	10	12	11	8	10	10	7	11	8.6	13.3	
23-Jul-05	10	8	13	14	16	18	22	19	21	22	21	22	22	24	23	21	16	11	11	8	7	7	7	6	15.4	23.6	
24-Jul-05	6	3	3	3	5	4	4	4	4	5	6	7	10	10	9	14	10	9	12	16	12	8	9	6	7.5	16.3	
25-Jul-05	4	5	9	8	9	8	5	9	11	11	10	10	10	11	10	13	18	7	8	6	8	6	6	7	8.7	18.4	
26-Jul-05	5	5	5	6	7	8	6	5	5	6	6	9	9	11	10	9	10	11	11	7	12	7	7	5	7.5	11.5	
27-Jul-05	5	5	4	5	6	7	7	7	9	7	7	7	7	8	8	10	7	5	7	6	7	7	5	6	6.6	9.7	
28-Jul-05	5	4	5	4	4	4	4	6	7	8	7	8	13	11	12	10	10	8	4	6	9	8	6	7	7.0	13.0	
29-Jul-05	5	5	6	6	6	6	7	9	7	7	8	9	10	11	9	11	19	17	17	12	11	8	5	4	9.0	19.4	
30-Jul-05	5	9	8	6	10	10	8	9	9	10	10	11	13	10	7	8	9	9	7	7	6	5	6	6	8.2	12.9	
31-Jul-05	6	6	5	5	5	3	5	7	7	8	11	15	23	19	16	15	13	11	10	8	8	8	5	5	9.4	23.0	
1-hr Average	8.0	7.7	8.1	7.8	8.0	8.5	8.9	10.1	12.5	13.7	14.8	15.5	16.4	16.5	16.6	16.9	16.5	16.0	15.6	13.3	11.5	9.8	9.1	8.8			
Hourly Max	18.8	17.2	16.1	17.8	20.8	22.6	21.8	20.3	30.6	36.2	37.4	38.1	35.9	36.3	35.5	35.0	31.0	31.2	33.6	28.0	25.4	23.8	22.5	23.5			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

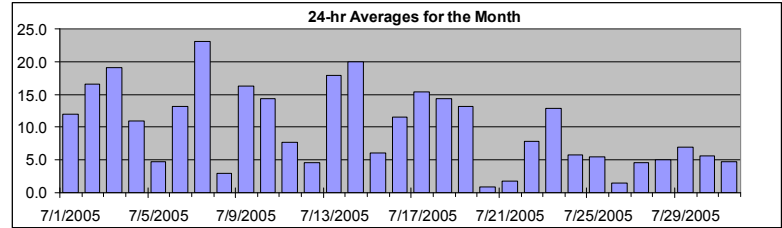
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	37.8	km/hr	7-Jul	11:00 12:00
Maximum 24-hr Value:	23.0	km/hr	7-Jul	



Calm Time:	2 hrs	0% calms	Operational Time:	741 hrs				
Calibration Time:	1 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	32.6	26.7	15.9	9.2	5.7	2.9	1.7	72.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	4	5	7	8	3	4	7	10	15	13	14	17	15	16	24	21	19	16	11	10	8	16	18	17		11.9	24.3
2-Jul-05	19	15	15	13	7	10	13	14	17	18	18	14	13	18	17	20	23	25	24	23	21	15	11	13		16.6	25.0
3-Jul-05	12	13	15	16	21	17	18	18	27	28	28	27	25	23	24	23	26	23	24	16	11	9	10	8		19.1	28.1
4-Jul-05	7	7	7	6	7	7	7	9	11	10	12	C	19	20	18	14	15	15	17	15	11	9	7	5		10.9	19.9
5-Jul-05	1	2	4	3	4	3	5	5	7	6	7	7	9	12	11	14	15	3	3	9	7	5	5	3		4.7	15.4
6-Jul-05	2	5	5	3	5	2	6	3	6	15	10	15	21	22	26	27	30	31	27	21	25	24	19	17		13.1	30.9
7-Jul-05	16	14	14	13	14	14	12	18	30	36	37	38	36	36	35	34	31	30	29	27	14	10	11	8		23.0	37.8
8-Jul-05	3	6	4	5	2	3	6	3	6	calm	4	8	6	5	6	8	6	8	8	7	8	19	5	6		2.9	18.8
9-Jul-05	5	6	5	6	5	6	12	16	18	17	25	23	25	23	27	27	26	25	28	24	21	14	12	12		16.3	28.4
10-Jul-05	11	11	10	9	8	10	11	19	23	23	21	20	17	17	18	19	19	22	14	9	7	8	9		14.3	23.4	
11-Jul-05	10	10	5	5	3	4	5	6	14	19	18	13	13	15	15	3	2	11	11	6	5	5	6	4		7.7	18.5
12-Jul-05	3	2	5	5	4	3	2	6	4	4	4	7	4	5	16	16	13	3	8	8	8	8	10	13		4.6	16.2
13-Jul-05	7	8	9	5	7	7	6	6	9	16	22	24	25	27	25	28	29	29	33	28	23	18	22	17		17.9	33.4
14-Jul-05	15	14	12	12	12	15	17	19	25	31	29	28	28	28	29	31	25	28	27	23	16	12	7	7		20.0	31.5
15-Jul-05	6	4	2	6	9	8	7	4	4	7	10	7	8	8	8	10	13	13	12	4	5	5	5	7		6.0	13.2
16-Jul-05	9	9	10	11	12	10	13	14	15	12	18	19	21	18	17	11	8	11	14	15	11	10	9	7		11.5	20.7
17-Jul-05	7	8	7	9	6	10	9	11	13	19	19	20	20	19	21	20	23	22	25	23	16	9	13	23		15.4	25.3
18-Jul-05	11	11	15	12	11	11	10	12	17	20	20	21	22	22	22	18	21	20	26	19	17	13	11	11		14.3	26.4
19-Jul-05	16	17	16	18	18	22	21	20	20	17	21	18	13	10	15	12	15	16	16	11	6	5	5	3		13.1	22.5
20-Jul-05	2	3	4	2	2	5	2	2	4	6	8	10	12	13	10	11	11	14	8	8	8	8	8	6		0.9	13.6
21-Jul-05	6	1	2	2	3	2	4	4	6	5	3	4	5	4	5	7	6	8	10	11	9	7	6	6		1.8	10.7
22-Jul-05	5	6	6	6	6	5	5	4	3	5	7	10	11	12	13	11	9	12	11	5	10	8	6	11		7.8	12.8
23-Jul-05	10	7	12	13	16	18	22	19	21	22	21	22	22	23	23	21	15	11	11	8	6	7	7	5		12.9	23.3
24-Jul-05	5	3	3	2	5	4	3	3	2	4	4	5	9	9	6	14	9	7	11	16	11	8	9	5		5.8	15.9
25-Jul-05	4	3	9	8	9	8	4	9	11	11	9	9	9	9	9	12	17	4	8	5	5	3	3	6		5.4	17.3
26-Jul-05	5	5	4	5	5	4	5	2	3	5	5	9	7	10	9	9	9	9	11	6	10	4	6	4		1.5	11.3
27-Jul-05	4	5	4	2	6	7	6	7	9	6	6	6	6	8	8	5	4	5	7	6	7	6	5	6		4.6	9.0
28-Jul-05	4	3	3	1	1	3	2	5	7	8	6	6	11	10	11	9	5	6	3	5	8	8	6	6		5.0	11.0
29-Jul-05	5	4	5	5	5	5	6	8	6	6	7	7	9	3	9	10	19	17	16	12	11	8	5	2		7.0	19.0
30-Jul-05	calm	8	7	5	9	10	6	9	9	9	9	11	12	8	6	6	9	9	7	7	6	4	6	6		5.6	12.4
31-Jul-05	6	6	5	5	4	2	4	6	7	7	10	14	23	18	15	14	12	10	10	7	8	7	3	3		4.8	22.6
1-hr Vector	4.7	5.2	5.8	5.1	5.0	5.6	5.7	7.1	9.5	10.9	11.2	11.3	12.2	12.1	12.3	13.5	13.3	11.4	11.2	9.8	7.9	6.8	6.1	5.0			
Hourly Max	18.6	17.2	15.9	17.7	20.7	22.5	21.7	20.3	30.3	35.8	37.1	37.8	35.5	36.0	35.1	34.5	30.8	30.9	33.4	27.8	25.3	23.7	22.4	23.1			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

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
	351.8	320.8	268.4	250.5	201.5	80.2	19.5	258 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	205	190	214	236	243	253	297	268	263	271	280	288	285	277	249	234	244	234	229	222	206	260	256	256	253	253	WSW
2-Jul-05	268	266	256	255	256	247	260	260	259	256	261	253	246	263	267	268	271	267	269	271	262	249	231	229	260	260	W
3-Jul-05	229	237	240	243	250	246	257	261	265	262	262	268	266	272	264	261	270	279	272	274	287	278	274	250	262	262	W
4-Jul-05	246	218	227	200	198	203	207	227	242	228	239	D	245	244	268	265	262	257	253	254	266	265	262	224	245	245	WSW
5-Jul-05	249	283	156	184	321	125	157	173	181	166	185	179	227	244	261	262	281	298	194	206	215	173	168	91	219	219	SW
6-Jul-05	75	111	116	85	99	329	0	353	235	278	259	239	246	253	257	264	255	256	265	257	256	253	252	240	257	257	WSW
7-Jul-05	229	234	240	233	228	224	235	244	254	258	254	257	255	255	260	258	250	252	254	251	245	224	226	227	249	249	WSW
8-Jul-05	183	207	173	166	95	144	359	345	162	319	49	103	162	259	295	318	294	164	183	172	187	247	247	213	208	208	SSW
9-Jul-05	160	231	200	189	213	179	220	212	237	240	247	234	271	257	251	250	246	250	266	267	256	240	231	239	244	244	WSW
10-Jul-05	220	223	228	229	197	211	251	255	259	256	259	261	257	254	267	262	269	256	261	266	282	278	220	243	253	253	WSW
11-Jul-05	249	249	258	159	169	190	150	216	234	244	256	255	241	284	209	250	292	295	314	307	251	202	157	175	245	245	WSW
12-Jul-05	271	259	290	306	319	269	215	176	189	265	269	305	310	143	216	247	261	93	95	173	229	249	260	251	242	242	WSW
13-Jul-05	225	235	238	264	284	285	252	208	223	248	255	267	256	261	256	268	255	263	256	251	248	246	249	244	254	254	WSW
14-Jul-05	241	238	243	250	252	238	239	244	254	262	260	260	256	259	273	268	282	280	284	281	285	279	270	256	263	263	W
15-Jul-05	257	238	203	200	232	252	220	196	165	172	169	163	176	247	245	197	166	167	187	313	108	127	163	212	196	196	SSW
16-Jul-05	238	258	251	246	246	245	250	254	254	264	291	314	307	312	315	318	316	289	304	288	285	270	261	244	280	280	W
17-Jul-05	261	265	262	258	276	255	268	263	269	262	261	261	259	260	261	251	261	261	266	257	251	240	255	314	263	263	W
18-Jul-05	306	219	213	232	261	263	266	300	300	287	279	276	288	333	347	333	313	304	278	288	292	260	254	257	287	287	WNW
19-Jul-05	257	255	261	259	260	278	280	280	290	302	315	302	302	226	220	254	233	239	244	240	221	177	222	217	265	265	W
20-Jul-05	242	200	230	312	118	159	158	165	157	83	86	86	88	94	121	201	244	303	338	294	308	274	257	304	202	202	SSW
21-Jul-05	332	1	266	165	328	277	293	282	232	251	225	244	168	166	65	119	112	97	98	91	86	77	58	49	106	106	ESE
22-Jul-05	49	13	354	328	339	332	355	32	14	47	51	42	50	30	24	32	31	0	350	340	8	48	47	30	21	21	NNE
23-Jul-05	36	75	296	297	283	285	291	293	295	293	293	290	298	301	302	309	347	356	8	23	19	358	346	347	310	310	NW
24-Jul-05	339	344	315	291	358	338	348	20	287	259	268	290	315	329	300	226	241	257	245	247	247	256	248	260	275	275	W
25-Jul-05	343	257	244	243	249	256	298	258	246	286	296	257	226	290	312	312	283	152	174	158	214	147	24	105	261	261	W
26-Jul-05	118	84	63	113	87	85	100	173	99	70	81	114	144	187	252	252	219	229	264	286	298	305	276	279	192	192	SSW
27-Jul-05	297	331	317	99	125	130	117	119	110	119	131	174	176	164	172	176	69	74	89	111	136	145	99	132	130	130	SE
28-Jul-05	147	170	266	127	195	177	160	236	232	256	240	238	299	257	193	193	261	328	223	184	204	229	233	298	232	232	SW
29-Jul-05	302	210	266	295	239	298	236	198	170	200	210	207	207	206	162	248	277	280	259	257	254	249	202	122	240	240	WSW
30-Jul-05	280	193	173	216	230	235	269	269	237	259	243	263	262	267	260	266	308	300	288	307	352	40	108	127	257	257	WSW
31-Jul-05	140	174	132	103	339	80	110	143	173	223	244	260	252	255	255	255	276	321	351	339	317	262	166	350	258	258	WSW
Hourly Avg	251	236	241	239	249	247	256	250	250	260	261	262	260	263	261	261	266	268	266	263	259	251	245	252			

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	743 hrs			
Calibration Time:	1 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	58.8	41.4	20.4	12.5	8.4	5.6	4.5

Status Flag Characters

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

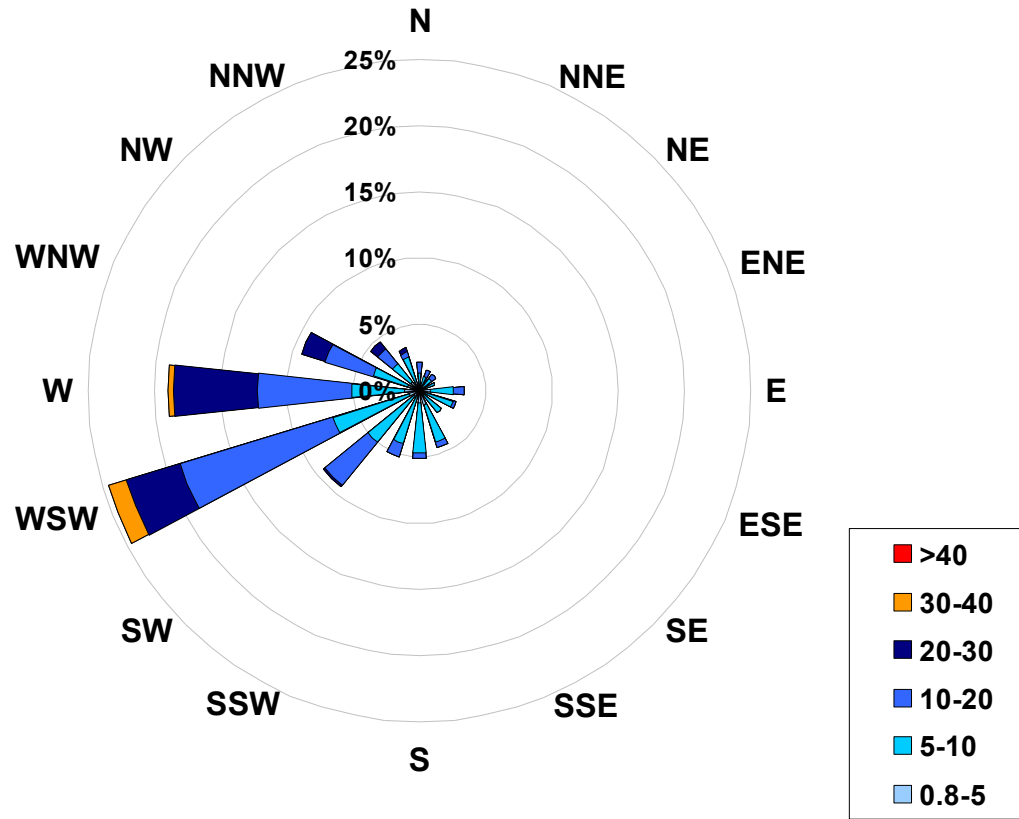
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-05	36	16	8	10	49	38	14	10	9	12	16	13	11	16	10	11	13	11	15	14	9	6	4	4	
2-Jul-05	5	5	5	5	21	8	7	12	11	12	13	20	21	11	15	10	8	11	9	7	6	6	7	6	
3-Jul-05	7	6	7	6	6	6	7	8	8	7	8	10	11	12	12	12	9	8	7	6	5	6	7	10	
4-Jul-05	10	8	12	15	9	10	14	12	11	20	31	C	12	13	12	17	16	13	14	6	8	7	8	16	
5-Jul-05	43	38	41	18	42	37	20	22	14	14	18	26	21	20	12	8	38	53	15	12	15	18	22		
6-Jul-05	56	19	16	30	27	29	16	28	39	9	10	10	9	8	10	10	8	8	7	6	6	5	6	6	
7-Jul-05	7	6	5	6	6	6	9	9	7	7	7	6	7	8	9	8	7	8	6	6	9	8	7	10	
8-Jul-05	49	15	19	18	33	36	30	59	31	43	38	25	38	47	27	16	21	25	16	10	21	9	49	18	
9-Jul-05	22	21	20	13	20	9	9	7	9	9	8	11	13	11	9	10	10	10	7	7	6	6	9	7	
10-Jul-05	7	7	7	6	7	8	13	7	8	10	12	14	17	17	17	16	12	13	6	6	6	14	6	12	
11-Jul-05	8	11	45	12	26	23	17	20	13	10	12	22	22	18	14	29	60	27	11	14	14	18	7	33	
12-Jul-05	26	23	15	9	15	29	41	16	20	23	27	18	38	40	18	12	15	37	17	13	13	13	7	6	
13-Jul-05	11	8	8	17	12	18	12	16	14	12	10	11	10	10	9	20	7	8	6	6	5	5	5	5	
14-Jul-05	6	6	7	7	8	6	6	8	7	7	8	9	10	11	10	9	8	7	6	7	5	5	7	13	
15-Jul-05	16	26	32	16	9	9	12	38	18	21	11	34	19	22	21	20	8	10	13	29	20	11	10	11	
16-Jul-05	8	7	8	7	7	9	8	6	5	7	7	6	6	6	8	25	14	15	10	6	6	7	6	16	
17-Jul-05	11	8	12	6	11	5	9	12	10	10	10	13	13	12	10	13	9	10	6	6	6	12	15	6	
18-Jul-05	22	12	7	12	8	7	16	11	9	9	9	10	14	11	10	8	11	8	11	7	4	7	4	12	
19-Jul-05	4	5	6	4	5	4	5	5	5	6	5	6	17	16	12	24	8	8	8	8	16	13	16	20	
20-Jul-05	56	27	19	42	45	12	54	62	25	20	25	21	15	14	16	14	16	10	14	10	10	14	10	20	
21-Jul-05	14	38	26	48	24	33	20	18	32	29	69	52	51	61	41	40	56	28	15	10	10	9	13	14	
22-Jul-05	13	9	14	8	6	26	24	37	53	35	30	21	20	15	16	14	15	11	10	39	16	15	18	13	
23-Jul-05	12	27	15	17	5	6	5	5	5	7	7	7	8	7	9	7	11	11	12	19	22	10	8	16	
24-Jul-05	12	22	39	56	12	14	26	37	58	53	59	32	30	29	30	12	19	33	19	9	8	13	10	25	
25-Jul-05	31	18	10	10	9	16	17	10	11	12	20	22	30	26	24	22	12	41	12	23	27	31	47	14	
26-Jul-05	22	18	24	29	32	25	17	23	61	31	22	16	25	20	21	17	19	16	11	18	51	19	19	30	
27-Jul-05	27	16	12	30	12	12	16	15	11	26	25	27	35	14	16	28	62	20	12	13	12	11	20	12	
28-Jul-05	20	44	30	41	54	32	26	28	16	17	24	37	30	15	20	17	27	17	45	24	9	10	16	16	
29-Jul-05	14	22	16	23	16	26	18	12	17	23	24	35	20	29	21	30	11	7	9	7	8	8	23	42	
30-Jul-05	35	14	13	26	7	8	36	12	14	14	16	14	14	19	30	40	12	13	8	10	16	16	8	11	
31-Jul-05	11	13	12	11	24	55	30	12	17	21	16	16	10	17	17	14	10	10	8	19	9	13	35	31	

Daily Maximum
49.5
21.2
12.2
30.9
52.5
55.9
10.3
59.4
22.5
16.7
59.7
41.4
20.3
13.2
37.6
25.4
14.5
21.9
24.0
61.5
68.6
53.4
26.7
59.2
47.5
60.6
62.1
54.5
42.0
39.9
55.2

Hourly Max	56	44	45	56	54	55	54	62	61	53	69	52	51	61	41	40	62	41	53	39	51	31	49	42
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for July 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	73	
5	to 10	306	
10	to 20	248	
20	to 30	102	
30	to 40	14	
	> 40	0	
Total Non-Zero Values			743

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

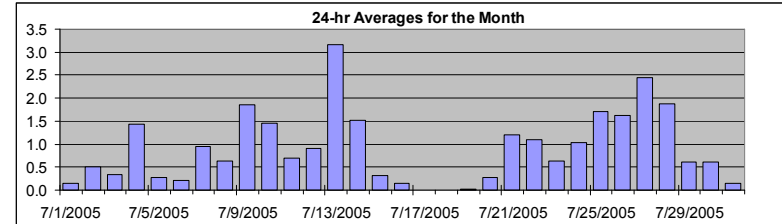
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	11.5	ppb	13-Jul	19:00	20:00
Maximum 24-hr Average:	3.2	ppb	13-Jul		



AIC Time:	31 hrs	Operational Time:	677 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	96.0%					
Percentile	99	95	75	50	25	5	1	Average
	6.8	4.1	1.2	0.5	0.0	0.0	0.0	1.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0.1	1.4	
2-Jul-05	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	A	0	0	1	1	1	0	0.5	0.9	
3-Jul-05	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	0.3	1.3	
4-Jul-05	1	1	0	1	0	0	1	1	C	1	1	1	6	1	1	1	5	5	2	3	0	0	1	1	1.4	5.8	
5-Jul-05	0	0	0	0	0	A	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0	
6-Jul-05	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.7	
7-Jul-05	0	0	0	A	0	0	0	1	1	4	5	1	0	0	4	1	0	4	0	0	0	0	0	0	0.9	4.8	
8-Jul-05	0	0	A	0	0	0	0	0	1	1	1	0	1	0	0	0	1	2	2	2	1	0	0	0	0.6	2.4	
9-Jul-05	0	A	1	0	0	0	0	1	1	5	3	0	3	4	1	2	7	4	5	1	1	1	1	1	1.9	7.3	
10-Jul-05	A	0	0	0	0	0	0	1	5	1	0	4	4	6	0	0	3	3	0	1	1	1	0	A	1.5	6.2	
11-Jul-05	1	0	0	0	0	0	0	1	0	2	6	1	0	0	0	4	0	0	0	0	0	0	0	0	0.7	6.5	
12-Jul-05	0	0	0	0	0	A	1	1	1	1	3	1	1	1	C	C	5	0	0	0	0	1	1	1	0.9	5.3	
13-Jul-05	1	1	1	1	1	A	1	1	1	6	10	2	1	2	8	6	6	2	6	11	2	1	1	1	3.2	11.5	
14-Jul-05	1	1	1	1	A	1	1	1	6	3	2	1	4	3	0	0	6	1	1	1	0	0	1	1	1.5	6.0	
15-Jul-05	1	1	1	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
16-Jul-05	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	1.5	
17-Jul-05	1	A	0	0	0	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.6	
18-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7	5	4	4	3	2	2	1	A	N	6.6	
19-Jul-05	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	0.5	
20-Jul-05	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	A	1	1	0.3	1.0	
21-Jul-05	1	1	1	1	1	1	1	2	6	2	1	2	1	1	1	1	1	0	0	0	A	1	1	1	1.2	6.1	
22-Jul-05	1	1	1	1	2	2	2	2	2	2	3	2	1	0	0	0	0	0	0	A	0	0	1	1	1.1	2.7	
23-Jul-05	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0.6	1.3	
24-Jul-05	0	0	0	1	1	1	1	3	2	1	1	2	1	0	0	0	2	A	0	1	2	2	2	2	1.0	2.8	
25-Jul-05	2	2	2	2	2	2	2	4	5	2	1	2	2	1	1	1	A	0	1	1	1	2	2	2	1.7	4.7	
26-Jul-05	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	A	0	0	0	1	2	2	2	2	1.6	2.4	
27-Jul-05	2	2	3	3	3	3	3	2	8	11	4	2	1	1	A	0	1	1	1	1	1	1	1	1	2.4	11.0	
28-Jul-05	2	2	2	2	2	3	3	3	4	6	C	C	C	A	A	8	0	0	0	0	0	0	0	0	1.9	7.8	
29-Jul-05	0	0	0	0	0	A	2	2	1	1	1	0	1	0	0	0	2	0	0	0	1	1	1	1	0.6	2.1	
30-Jul-05	1	1	0	0	A	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	0.6	1.2	
31-Jul-05	1	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
Hourly Avg	0.7	0.6	0.6	0.6	0.6	0.7	0.8	1.1	1.8	1.9	1.8	0.9	1.2	0.8	0.7	1.1	1.7	1.0	0.9	1.0	0.6	0.6	0.7	0.8			
Hourly Max	2.4	2.4	2.6	2.7	2.7	2.7	2.7	3.7	8.2	11.0	10.3	3.6	5.8	6.2	8.1	7.8	7.3	4.6	5.8	11.5	2.2	1.9	2.1	2.3			

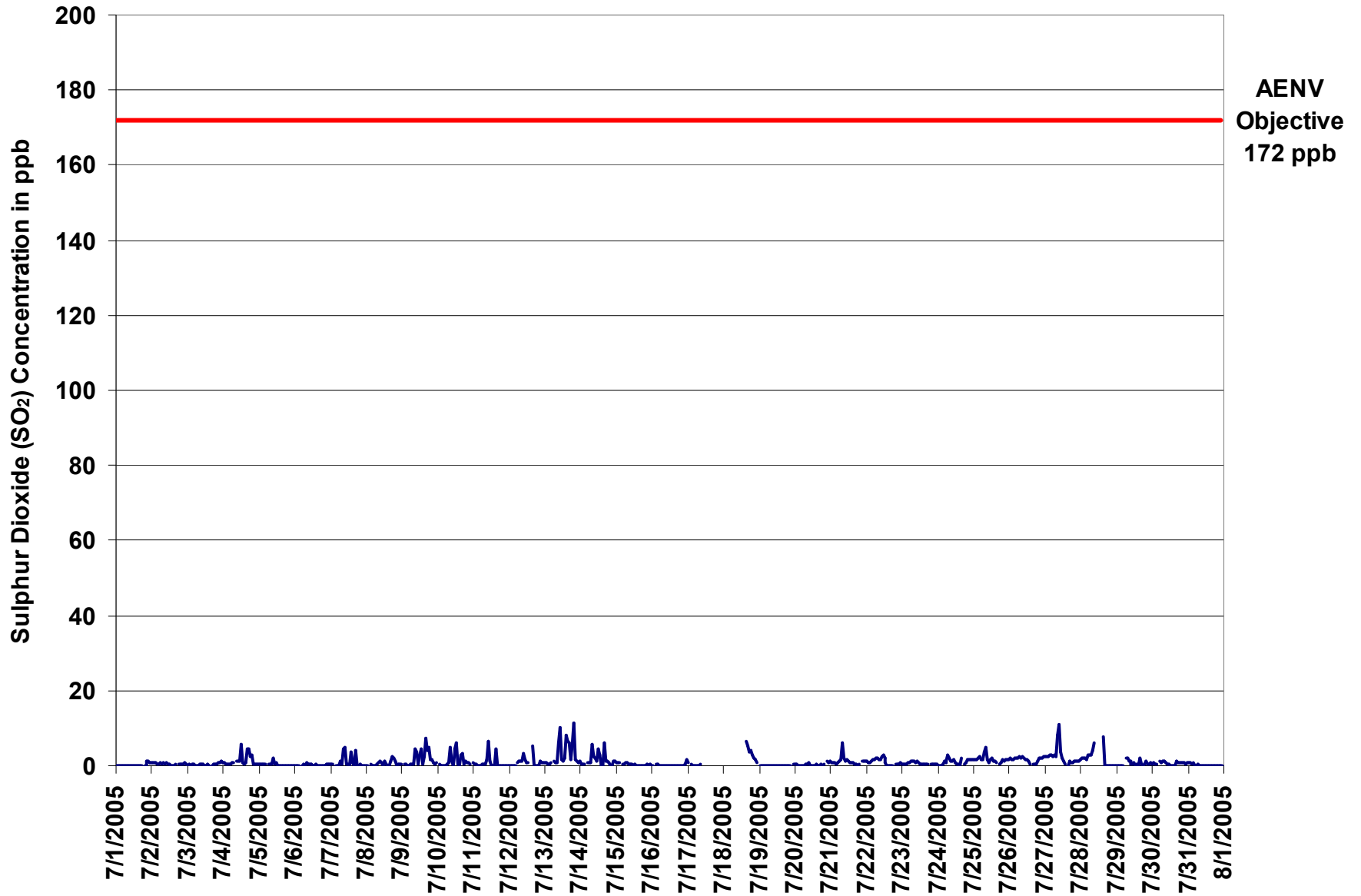


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

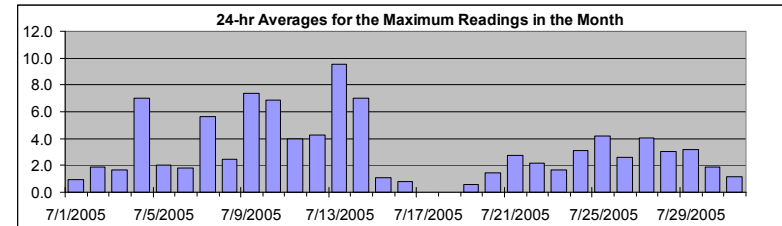
HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	35.6	ppb	12-Jul	16:00 17:00
Maximum 24-hr Value:	9.5	ppb	13-Jul	



AIC Time:	31 hrs	Operational Time:	677 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	96.0%					
Percentile	99	95	75	50	25	5	1	Average
	26.1	17.2	2.6	1.7	1.1	0.0	0.0	3.3 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-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	1	2	2	12	2	0.9	11.8	
2-Jul-05	2	2	2	2	2	2	2	2	1	2	2	2	5	1	2	1	1	A	1	1	1	2	3	1	1.9	4.9	
3-Jul-05	1	1	1	1	1	1	1	1	1	2	1	1	1	3	1	1	A	2	1	2	1	2	2	8	1.7	7.9	
4-Jul-05	2	2	1	2	2	2	2	2	C	3	2	4	23	2	2	2	32	20	27	24	2	2	1	2	7.0	32.4	
5-Jul-05	2	1	2	1	2	A	1	1	2	1	4	3	7	3	5	5	1	1	0	1	2	0	1	1	2.1	6.5	
6-Jul-05	2	1	1	1	A	1	1	1	2	2	1	2	1	1	2	1	1	0	14	1	1	1	1	2	1.8	14.2	
7-Jul-05	2	1	2	A	1	1	1	14	2	17	15	2	2	1	26	12	1	21	1	2	1	3	1	0	5.6	25.9	
8-Jul-05	0	1	A	1	1	1	1	2	2	2	2	2	3	2	1	3	14	4	4	4	2	1	2	1	2.4	13.9	
9-Jul-05	1	A	2	1	1	1	1	1	1	22	11	1	19	23	2	8	17	20	22	3	5	2	1	2	7.4	23.4	
10-Jul-05	A	2	1	1	1	1	1	8	22	7	1	18	15	24	4	1	13	20	2	2	2	1	A	6.9	23.6		
11-Jul-05	2	1	1	1	1	1	1	2	2	9	23	11	1	1	9	23	2	0	0	0	1	1	1	1	4.0	23.3	
12-Jul-05	1	1	1	1	1	A	3	2	2	3	14	3	3	2	C	C	36	7	1	0	2	2	2	2	4.2	35.6	
13-Jul-05	2	2	2	1	2	A	2	2	2	16	27	9	2	11	27	26	22	3	25	27	5	3	2	2	9.5	26.9	
14-Jul-05	2	2	2	2	A	2	2	2	24	19	14	2	18	25	1	1	31	3	2	2	1	2	2	2	7.0	30.5	
15-Jul-05	2	2	2	A	1	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1.1	2.0	
16-Jul-05	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	3	0.8	3.0	
17-Jul-05	2	A	1	1	1	1	1	0	15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	15.3	
18-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	8	8	5	5	5	6	3	1	A	N	8.3	
19-Jul-05	0	1	1	1	0	1	0	0	1	1	0	1	0	1	1	0	0	0	0	1	2	1	A	1	0.6	2.2	
20-Jul-05	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	9	1	1	1	A	2	2	1.4	9.2	
21-Jul-05	2	2	2	2	1	2	2	4	14	3	3	6	2	2	2	2	2	2	2	2	1	A	2	2	2.8	13.6	
22-Jul-05	2	2	2	3	2	3	3	3	2	3	4	4	4	3	1	1	1	1	1	A	1	2	2	2	2.2	4.5	
23-Jul-05	2	1	2	1	2	2	2	2	2	2	2	2	1	2	2	1	1	1	A	1	1	1	1	1	1.6	2.4	
24-Jul-05	1	1	1	1	2	2	2	4	3	2	3	5	2	2	1	1	14	A	3	9	2	3	3	3	3.1	14.1	
25-Jul-05	2	3	3	3	3	2	2	14	17	3	2	8	9	2	2	4	A	2	2	3	2	3	3	2	4.2	17.2	
26-Jul-05	3	3	3	3	3	3	3	3	3	4	3	3	3	2	1	A	2	2	1	2	3	3	3	3	2.6	3.5	
27-Jul-05	4	3	4	4	4	4	4	3	12	20	6	3	2	2	A	2	2	2	2	3	2	2	2	2	4.0	19.7	
28-Jul-05	3	3	3	3	3	4	3	5	8	13	C	C	C	A	A	9	0	0	0	0	0	0	1	0	3.0	12.6	
29-Jul-05	0	0	1	1	1	A	5	5	2	2	2	2	2	2	1	1	17	2	1	2	20	2	2	2	3.2	19.5	
30-Jul-05	2	2	2	2	A	2	2	2	3	2	2	2	2	1	1	1	2	3	2	2	2	2	1	2	1.9	3.4	
31-Jul-05	2	2	2	A	2	1	1	2	1	1	1	1	0	2	1	4	4	0	0	0	0	0	0	0	1.2	4.5	
Hourly Avg	1.7	1.5	1.5	1.6	1.6	1.6	1.8	3.0	5.3	5.6	5.4	3.5	4.6	4.4	3.7	4.3	8.1	4.6	4.3	3.4	2.5	1.7	2.0	1.9			
Hourly Max	3.6	3.3	3.6	3.5	3.7	3.9	5.5	14.0	24.3	21.6	26.9	18.0	23.3	25.3	26.8	26.0	35.6	21.0	26.6	19.5	3.3	11.8	7.9				

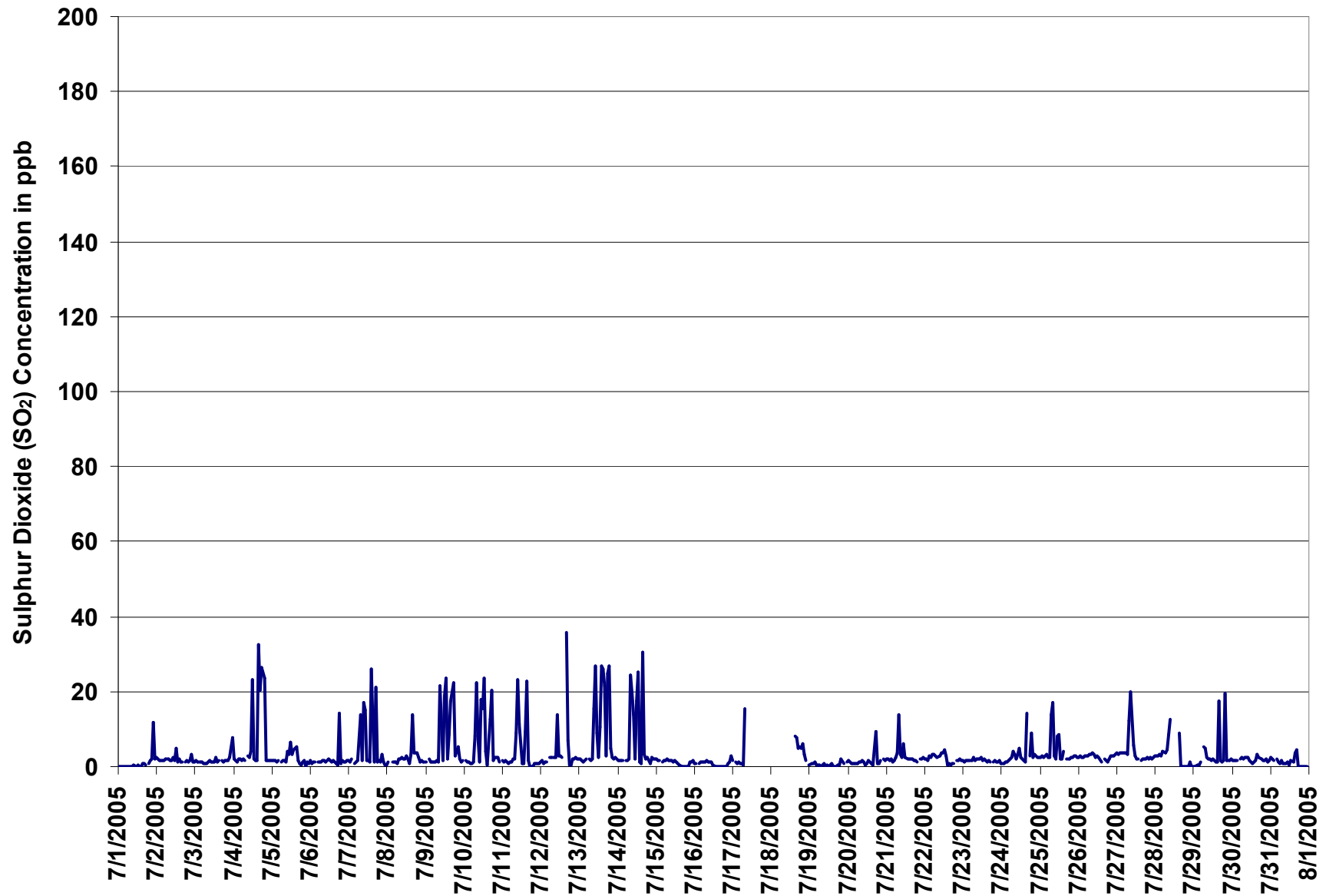
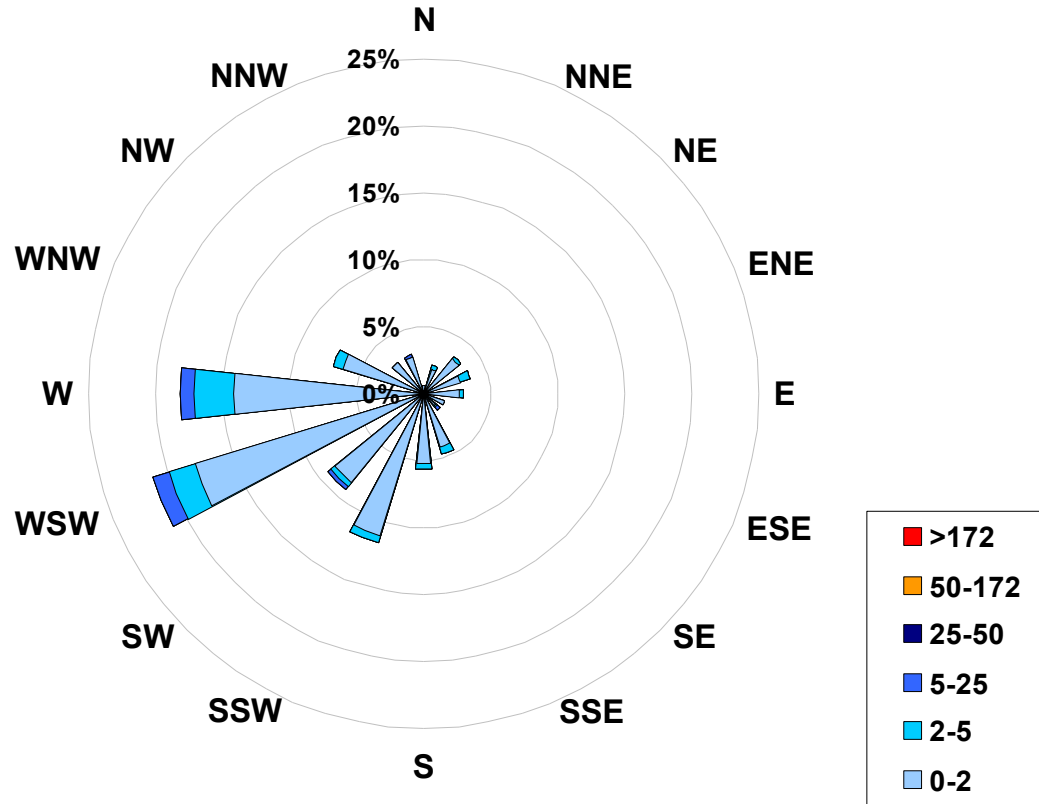


Figure 21. PASZA - Evergreen Park Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for July 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range	Frequency (hrs)		
0.0 < 2	592		
2 to 5	64		
5 to 25	21		
25 to 50	0		
50 to 172	0		
> 172	0		
Total Non-Zero Values	677		

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

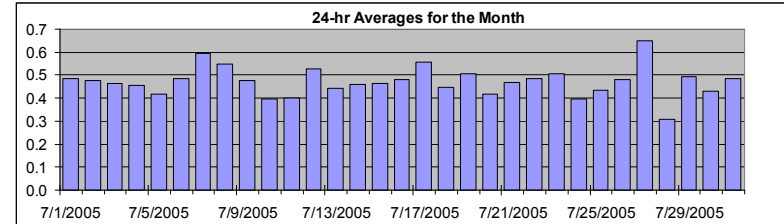
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	1.8	ppb	27-Jul	8:00 9:00
Maximum 24-hr Value:	0.6	ppb	27-Jul	



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
	0.9	0.6	0.5	0.4	0.3	0.2		0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-05	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.5	0.7
2-Jul-05	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	1	A	0	0	0	0	0	0	0	0.5	0.5
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	0.5	0.5	
4-Jul-05	0	0	0	0	0	0	0	0	C	0	0	1	1	1	1	0	1	1	0	1	1	0	0	0	0.5	0.5	
5-Jul-05	0	0	0	0	0	A	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.5	
6-Jul-05	0	0	0	0	A	0	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	0.5	0.6	
7-Jul-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	
8-Jul-05	0	0	A	0	0	0	0	1	1	1	1	0	1	0	1	0	0	1	0	0	0	0	1	0	0.5	1.2	
9-Jul-05	0	A	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0.5	0.6	
10-Jul-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5	
11-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0.4	0.5	
12-Jul-05	0	1	1	0	0	A	1	1	1	1	1	1	1	1	C	C	1	1	1	0	1	0	1	0	0.5	0.6	
13-Jul-05	0	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
14-Jul-05	0	0	0	0	A	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0.5	0.5	
15-Jul-05	0	0	0	A	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0.5	0.6	
16-Jul-05	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0.5	0.6	
17-Jul-05	0	A	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	0.8	
18-Jul-05	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	A	0.4	0.5	
19-Jul-05	1	1	1	1	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	A	0	0.5	0.7
20-Jul-05	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	1	1	A	1	0	0.4	0.9	
21-Jul-05	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	1	1	0	0	0	A	1	0	0	0.5	0.6	
22-Jul-05	0	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.5	0.7	
23-Jul-05	0	0	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	1	A	1	0	0	0	0	0.5	0.6	
24-Jul-05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0.4	0.6	
25-Jul-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	1	1	1	0	0	0	0.4	0.6	
26-Jul-05	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	A	0	1	1	0	0	0	1	0	0.5	0.6	
27-Jul-05	0	0	0	0	0	1	1	1	2	1	1	1	0	0	A	1	0	0	0	0	0	1	1	0	0.6	1.8	
28-Jul-05	0	0	0	0	0	0	0	1	1	0	C	C	C	A	A	0	0	0	0	0	0	0	0	0	0.3	0.9	
29-Jul-05	0	0	0	0	0	A	1	1	1	1	0	0	0	1	0	0	1	0	0	0	1	1	1	1	0.5	0.9	
30-Jul-05	1	1	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
31-Jul-05	1	0	0	A	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.5	0.7	
Hourly Avg	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max	0.7	0.6	0.6	0.6	0.7	1.4	1.1	0.9	1.8	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.9	0.7	0.6		

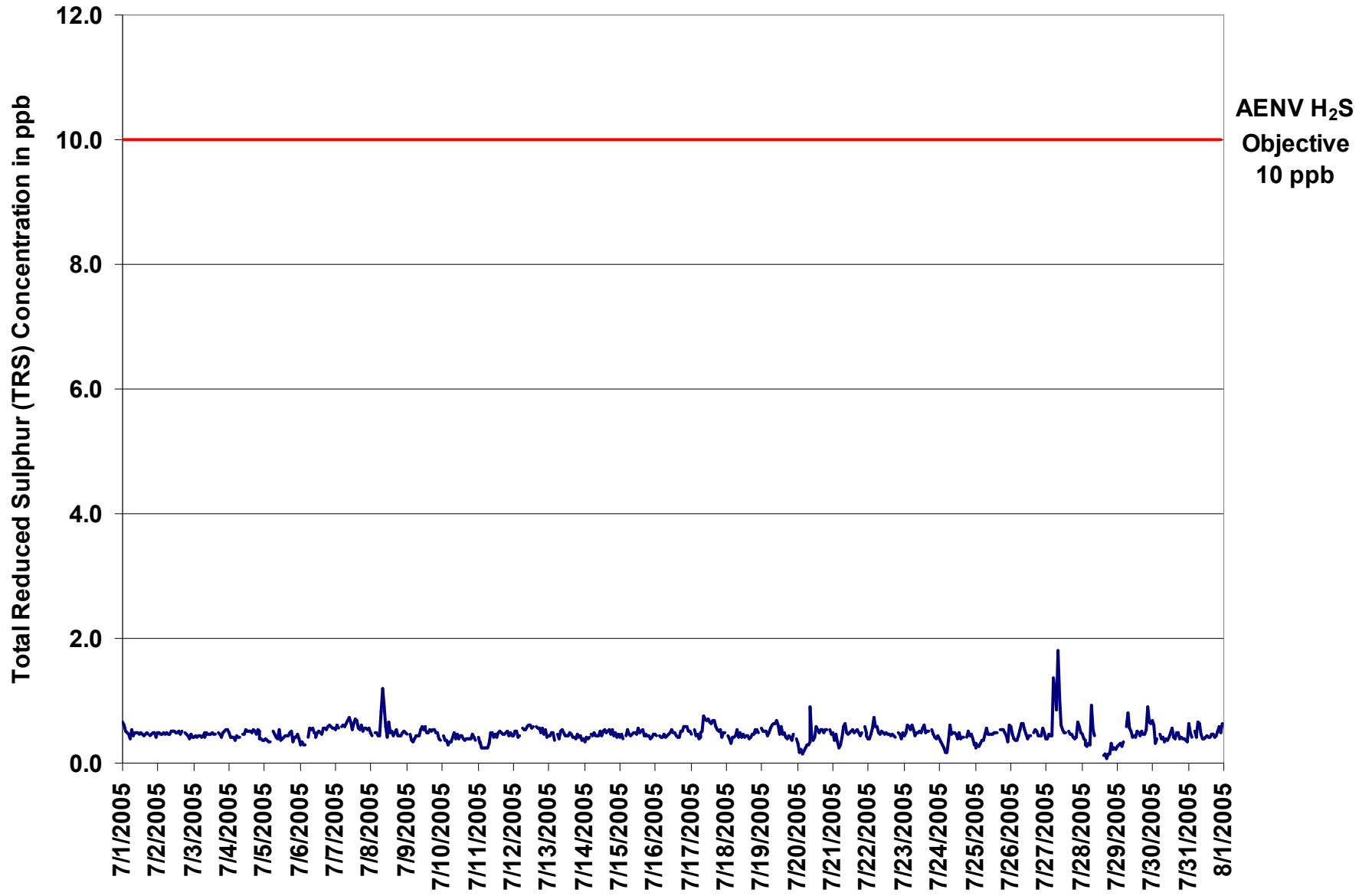


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

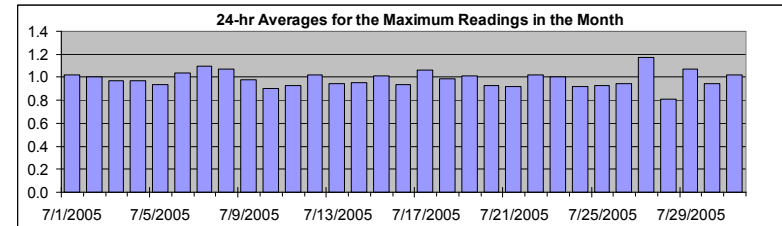
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	2.6	ppb	27-Jul	8:00 9:00
Maximum 24-hr Value:	1.2	ppb	27-Jul	

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
	2.0	1.3	1.0	1.0	0.9	0.7	0.6	1.0 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-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1.0	2.4
2-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	A	1	1	1	1	1	1	1.0	1.9
3-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	1.0	1.7
4-Jul-05	1	1	1	1	1	1	1	1	C	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1.0	1.5
5-Jul-05	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	1.2
6-Jul-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1.0	2.5
7-Jul-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.3
8-Jul-05	1	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.3
9-Jul-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
10-Jul-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1
11-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.9	1.9
12-Jul-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1.0	1.3
13-Jul-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
14-Jul-05	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
15-Jul-05	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
16-Jul-05	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
17-Jul-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.1	1.8
18-Jul-05	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
19-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.2
20-Jul-05	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	2.0
21-Jul-05	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	1.2
22-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.4
23-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	1.2
24-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	1	1	0.9	2.0
25-Jul-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.6
26-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.1
27-Jul-05	1	1	1	1	1	2	2	2	3	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.2	2.6
28-Jul-05	1	1	1	1	1	1	1	2	1	1	C	C	C	A	A	1	1	1	1	1	1	1	1	1	0.8	2.0
29-Jul-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.1	1.7
30-Jul-05	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
31-Jul-05	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	1.6
Hourly Avg	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Hourly Max	1.3	1.3	1.2	1.3	1.4	2.0	1.7	2.3	2.6	2.1	1.3	1.2	1.9	1.2	1.2	1.9	1.5	1.2	2.5	2.0	1.8	1.7	2.4	1.7		

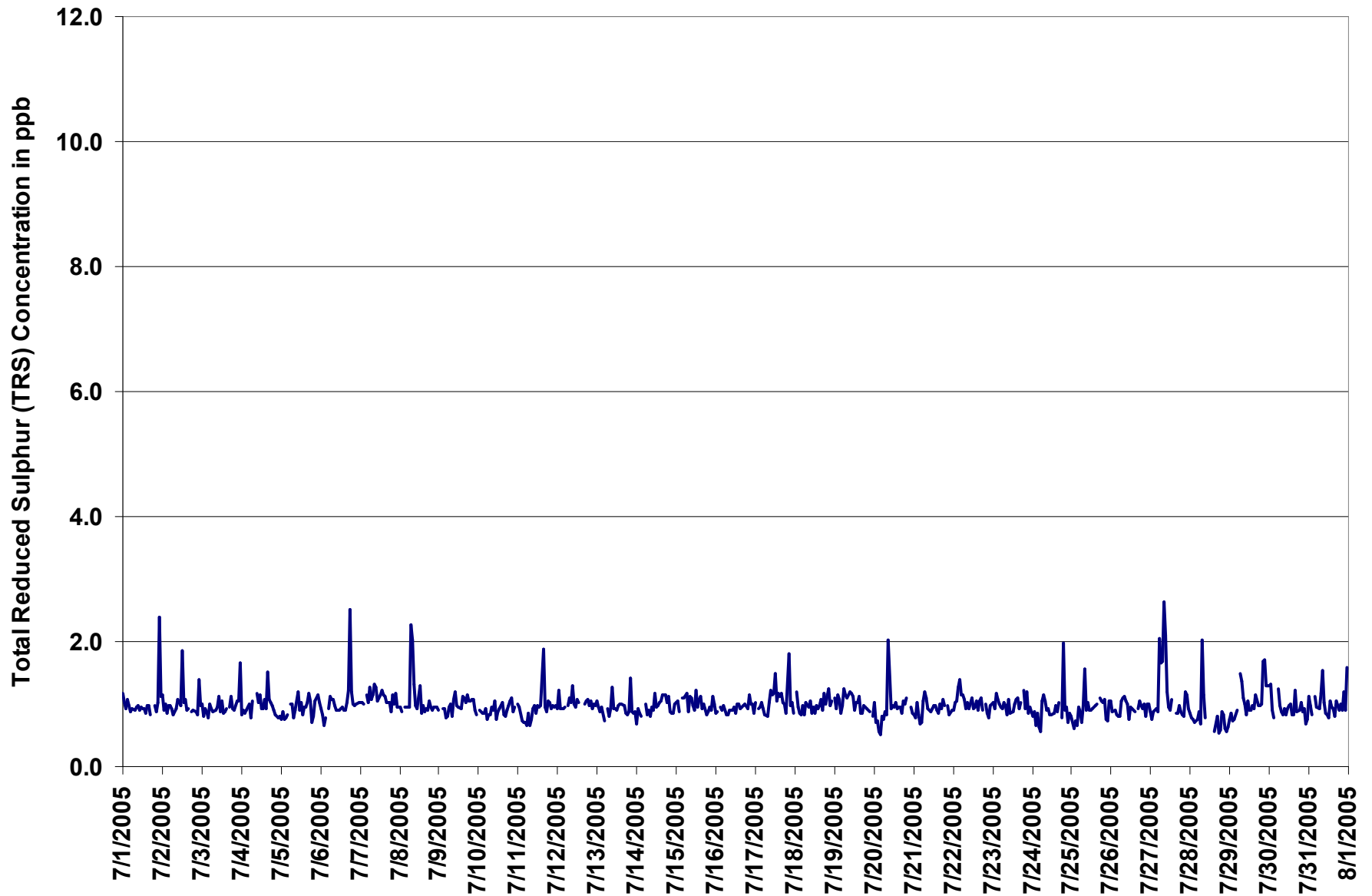
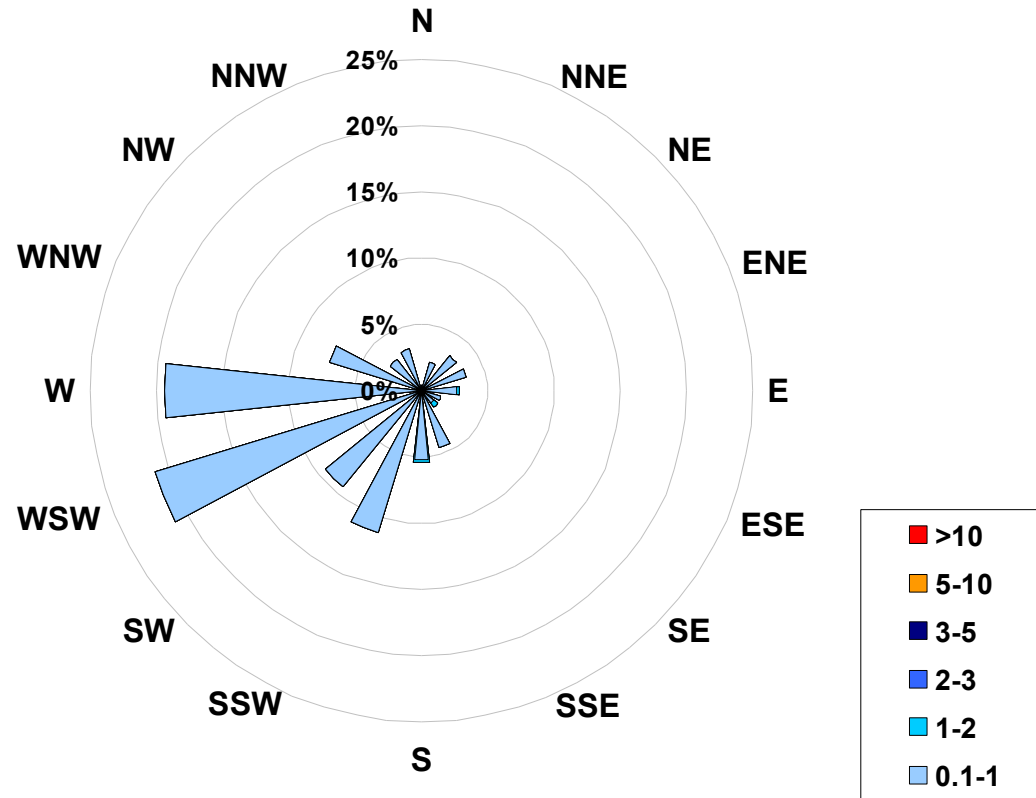


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for July 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1		701
1	to 2		5
2	to 3		0
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			706

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

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

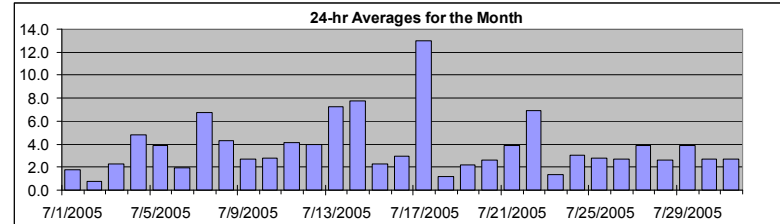
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	46.6 $\mu\text{g}/\text{m}^3$ 17-Jul 15:00 16:00
Maximum 24-hr Value:	13.0 $\mu\text{g}/\text{m}^3$ 17-Jul

AIC Time:	0 hrs	Operational Time:	731 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	98.5%
Percentile	99	95	75
	24.3	11.4	4.9
		50	2.4
		25	0.8
		5	0.0
		1	0.0
		Average	3.8 $\mu\text{g}/\text{m}^3$
		Geomean	3.2 $\mu\text{g}/\text{m}^3$



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-05	2	0	D	0	0	5	2	0	5	1	D	D	0	1	5	0	1	0	1	2	9	0	4	0	1.7	8.7
2-Jul-05	1	0	0	0	1	1	0	0	0	0	1	0	0	0	2	1	0	1	1	1	3	2	4	0	0.7	3.9
3-Jul-05	0	0	0	0	1	2	2	2	0	2	2	0	1	1	1	3	1	2	3	6	3	7	7	7	2.3	7.0
4-Jul-05	7	5	4	1	6	1	3	2	8	3	0	2	10	2	7	4	9	8	7	6	5	5	8	4	4.8	10.2
5-Jul-05	2	4	2	2	5	7	6	4	5	8	8	1	3	6	2	6	10	7	0	4	0	0	0	0	3.9	10.5
6-Jul-05	1	3	2	2	2	4	7	3	4	D	2	0	D	0	0	0	2	0	8	3	1	0	1	0	1.9	7.8
7-Jul-05	0	0	0	0	0	1	2	5	5	33	18	14	17	10	11	12	8	11	2	3	2	4	0	2	6.7	33.2
8-Jul-05	1	2	0	2	6	5	4	8	4	6	5	0	8	2	2	6	7	6	7	1	8	11	3	0	4.3	10.8
9-Jul-05	0	0	0	D	0	5	6	0	D	3	D	D	6	0	D	2	6	3	6	5	6	2	0	0	2.7	6.2
10-Jul-05	0	0	1	1	0	3	1	1	6	2	0	3	2	5	0	1	4	5	4	6	9	9	3	0	2.8	9.1
11-Jul-05	1	2	2	1	1	4	3	3	3	3	6	1	2	4	8	3	3	2	7	5	16	3	14	6	4.2	16.4
12-Jul-05	5	4	2	1	1	9	12	0	5	10	12	4	2	8	C	C	2	1	0	3	4	1	3	0	4.0	12.4
13-Jul-05	0	0	0	0	0	2	2	1	2	9	18	8	9	11	15	17	25	9	22	19	0	1	1	1	7.3	25.5
14-Jul-05	1	1	2	2	2	3	6	18	21	17	19	17	11	10	10	14	5	2	3	3	10	4	4	4	7.8	21.1
15-Jul-05	3	3	3	3	3	3	3	2	2	7	1	2	2	0	0	4	3	0	2	2	2	3	2	2	2.3	6.7
16-Jul-05	0	0	0	0	0	0	0	2	3	2	3	4	5	5	5	5	3	4	3	6	6	6	5	4	3.0	6.3
17-Jul-05	3	4	3	3	2	3	5	5	10	34	43	18	35	36	21	47	29	1	2	2	4	2	0	1	13.0	46.6
18-Jul-05	2	2	0	1	2	2	3	4	0	0	1	0	0	2	4	0	1	0	2	0	2	0	0	0	1.2	4.1
19-Jul-05	0	0	1	0	0	1	2	2	2	2	2	4	6	5	5	2	1	0	1	1	6	2	2	2	2.2	6.2
20-Jul-05	1	2	1	1	2	1	4	5	7	5	0	0	1	0	4	5	3	5	2	4	2	2	2	2	2.6	6.9
21-Jul-05	1	1	0	0	2	5	6	8	14	1	1	3	3	3	4	5	5	3	4	4	6	5	4	4	3.9	14.1
22-Jul-05	3	3	3	3	4	6	15	3	5	5	7	7	7	7	6	6	7	8	7	13	12	11	11	7	7.0	15.0
23-Jul-05	9	8	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	1	2	2	2	2	1.3	9.1
24-Jul-05	5	4	2	2	4	6	6	9	5	1	2	2	0	2	5	2	4	1	3	3	2	3	0	0	3.0	9.1
25-Jul-05	0	0	1	3	3	2	1	7	6	3	3	0	3	1	0	2	12	4	3	5	2	1	2	2	2.8	12.2
26-Jul-05	3	1	0	1	0	1	3	5	7	3	3	3	3	6	2	0	1	2	3	7	4	3	2	0	2.7	7.5
27-Jul-05	0	2	3	1	1	4	7	5	12	9	9	2	4	1	4	10	6	3	1	2	3	2	1	0	3.8	11.5
28-Jul-05	0	0	0	0	0	5	8	15	1	7	9	0	0	0	0	1	0	1	2	5	4	0	3	2	2.6	14.9
29-Jul-05	3	3	3	2	2	5	16	4	5	5	2	3	3	8	0	2	0	1	2	6	7	3	6	2	3.9	15.6
30-Jul-05	5	6	5	4	2	2	4	3	1	2	4	1	0	0	1	5	3	4	1	6	3	0	0	2	2.7	6.4
31-Jul-05	4	3	1	0	0	1	9	4	10	8	1	0	D	0	0	0	3	0	3	9	2	4	0	0	2.7	9.7
Hourly Avg	2.1	2.1	1.4	1.2	1.7	3.1	4.6	3.8	5.1	6.6	6.1	3.5	5.2	4.5	4.3	5.3	5.7	3.2	3.6	4.6	4.5	3.3	3.1	1.8		
Hourly Max	9.1	8.0	4.9	3.5	5.9	8.6	15.6	14.9	17.6	33.8	42.9	19.5	34.9	35.7	20.8	46.6	28.5	11.2	21.7	19.1	16.4	10.8	13.7	7.4		

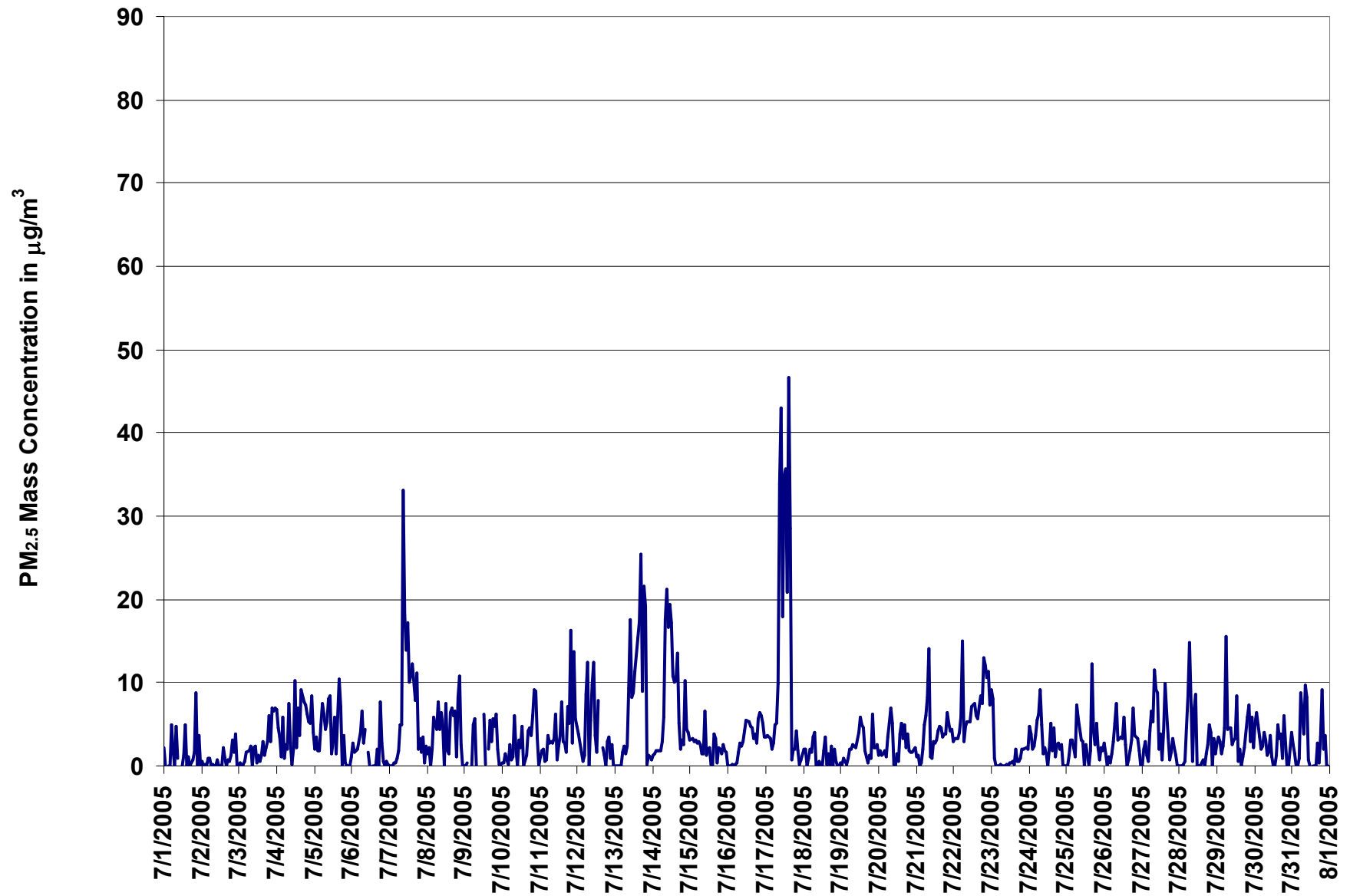


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

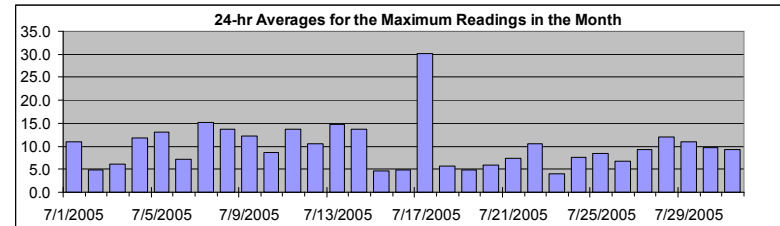
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	104.4	µg/m ³	17-Jul	10:00 11:00
Maximum 24-hr Value:	30.2	µg/m ³	17-Jul	

AIC Time:	0 hrs	Operational Time:	731 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	50.0	27.5	12.4	7.0	4.0	1.6	0.3	9.9 µg/m ³	9.0 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-05	10	4	D	4	5	18	18	7	12	8	D	D	9	13	12	8	13	13	6	12	18	17	21	1	10.9	20.6
2-Jul-05	1	3	1	1	3	5	2	3	3	3	6	5	5	9	9	6	6	4	2	4	5	5	26	0	4.8	25.6
3-Jul-05	2	2	1	2	2	3	3	4	4	9	7	5	4	6	7	7	5	7	7	10	5	15	16	14	6.1	15.7
4-Jul-05	13	8	7	5	8	8	7	8	19	13	5	8	24	14	16	13	22	13	14	14	8	10	17	11	11.9	23.7
5-Jul-05	7	6	6	4	10	12	11	11	15	21	17	18	15	12	13	18	21	19	16	36	16	8	0	2	13.1	36.2
6-Jul-05	6	7	5	4	6	8	12	5	7	D	12	10	D	5	5	7	8	10	21	7	4	5	4	2	7.2	20.5
7-Jul-05	1	2	2	2	2	3	4	9	29	51	37	25	28	17	36	26	17	36	6	8	8	10	3	6	15.2	51.3
8-Jul-05	5	5	4	5	9	9	9	15	10	13	12	12	34	9	7	16	16	19	16	31	20	43	9	3	13.8	42.9
9-Jul-05	1	3	3	D	1	30	42	4	D	25	D	D	23	9	D	13	14	11	13	10	18	8	4	2	12.3	42.2
10-Jul-05	2	2	3	3	3	10	3	6	18	9	5	15	11	13	5	7	17	13	9	11	17	16	7	3	8.6	17.7
11-Jul-05	4	7	5	4	4	8	9	26	10	10	18	12	9	11	42	17	11	6	19	12	39	11	23	9	13.6	41.6
12-Jul-05	6	6	4	3	3	25	28	8	13	17	21	14	11	18	C	C	18	8	2	7	7	5	8	2	10.6	27.6
13-Jul-05	0	0	0	0	1	4	6	4	6	17	24	15	12	16	31	39	53	26	43	47	5	3	2	3	14.8	53.0
14-Jul-05	2	3	3	3	3	4	6	8	36	33	30	25	23	26	14	13	26	18	4	9	4	20	8	5	13.6	36.3
15-Jul-05	4	5	4	4	5	5	5	4	4	10	5	5	4	3	2	5	6	4	7	4	3	4	3	3	4.6	10.5
16-Jul-05	0	1	1	2	1	1	2	5	5	3	4	7	6	7	8	9	6	7	5	9	8	7	6	5	4.8	9.2
17-Jul-05	5	5	5	5	4	7	9	17	31	69	104	32	77	79	41	94	76	4	5	4	22	7	10	13	30.2	104.4
18-Jul-05	7	6	2	3	5	3	11	14	5	4	7	5	4	9	8	4	8	3	6	2	15	2	1	1	5.6	15.4
19-Jul-05	1	2	2	1	2	3	3	3	4	5	4	6	8	8	8	8	7	2	3	3	18	5	5	4	4.8	18.4
20-Jul-05	3	3	2	3	3	3	8	8	15	9	6	3	4	3	7	12	7	15	5	6	4	4	4	4	5.8	14.6
21-Jul-05	3	3	2	2	4	8	14	13	27	4	3	6	5	7	9	10	8	6	6	7	9	7	5	6	7.3	27.3
22-Jul-05	5	5	5	5	6	16	22	6	7	9	9	10	11	11	9	9	10	12	11	23	17	14	14	12	10.6	22.7
23-Jul-05	16	10	14	3	0	1	3	2	2	2	2	2	2	2	2	2	6	4	6	4	3	4	5	4	4.1	16.0
24-Jul-05	7	6	6	6	5	7	9	13	11	5	5	7	4	5	18	10	18	5	8	12	4	5	2	1	7.6	18.4
25-Jul-05	0	1	3	7	4	3	4	22	15	6	8	4	8	5	5	5	35	12	16	10	12	4	8	5	8.4	35.0
26-Jul-05	5	5	2	3	4	5	6	10	10	7	9	8	7	10	9	5	6	7	6	14	13	7	3	2	6.8	14.3
27-Jul-05	2	7	6	3	3	6	12	17	18	15	15	15	17	8	9	22	16	7	4	4	6	4	4	4	9.3	21.8
28-Jul-05	4	5	6	4	3	9	32	37	10	17	19	6	17	6	7	20	24	9	11	17	14	7	7	4	12.1	37.3
29-Jul-05	10	6	6	4	4	7	28	11	10	10	6	10	13	25	12	11	11	5	7	12	28	6	17	4	10.9	28.1
30-Jul-05	9	16	9	8	4	5	9	15	8	6	7	6	3	6	13	20	18	24	16	17	7	1	3	7	9.8	23.8
31-Jul-05	7	5	4	2	1	5	16	8	14	15	9	14	D	6	5	6	11	8	14	27	17	11	6	1	9.2	27.2
Hourly Avg	4.8	4.8	4.1	3.5	3.8	7.7	11.3	10.4	12.5	14.2	14.4	10.6	13.7	12.1	12.7	14.7	16.7	10.8	10.0	12.6	12.1	8.9	8.1	4.6		
Hourly Max	16.0	15.9	13.8	8.5	10.3	29.5	42.2	37.3	36.3	69.0	104.4	31.7	77.3	79.4	41.6	94.4	75.7	36.1	43.2	46.7	39.1	42.9	25.6	13.8		

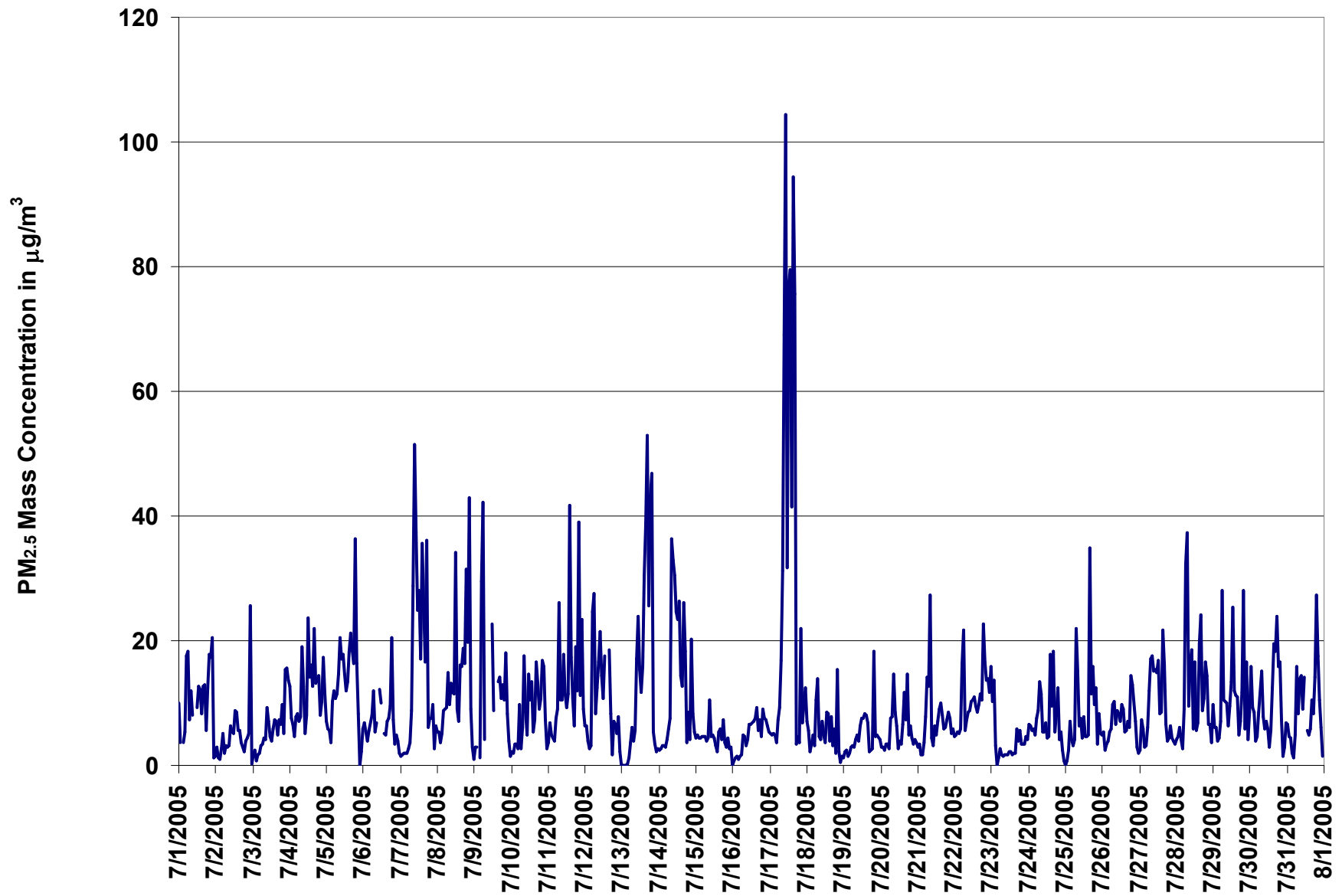
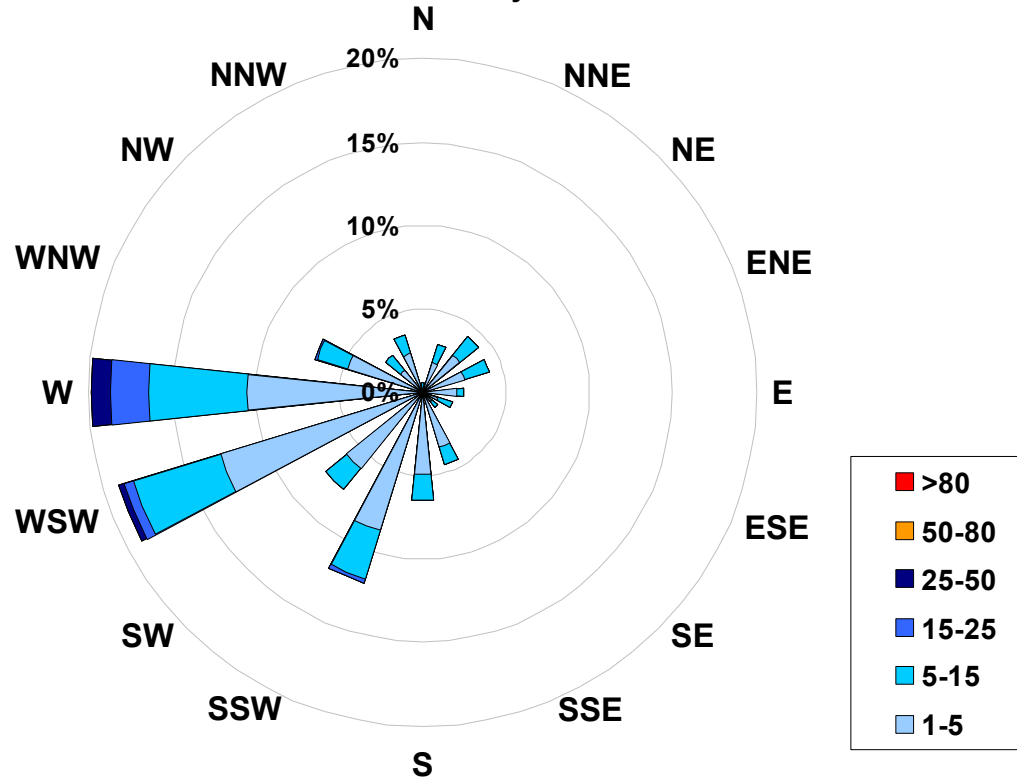


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 July 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	552	
5	to 15	154	
15	to 25	17	
25	to 50	8	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			731

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

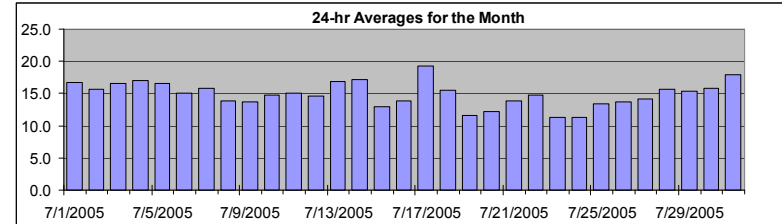
Ambient Temperature (T)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	25.9 °C	17-Jul	17:00 18:00
Maximum 24-hr Value:	19.3 °C	17-Jul	

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
	24.4	22.1	18.8	14.6	11.4	7.4	5.1	14.9 °C



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	13	12	11	10	9	9	12	14	15	18	20	21	22	22	21	21	21	21	22	21	19	18	16	14		16.7	22.0	
2-Jul-05	13	12	11	11	10	11	13	13	15	16	17	18	19	20	20	20	20	19	19	18	17	15	14	13		15.7	20.2	
3-Jul-05	12	12	13	13	13	13	13	14	16	17	18	19	20	20	21	21	21	21	19	19	18	16	15	13		16.5	21.0	
4-Jul-05	11	10	9	7	8	11	13	15	17	19	20	20	21	22	22	22	23	23	23	22	21	20	17	15		17.0	23.2	
5-Jul-05	13	12	11	10	10	11	14	15	18	19	20	22	23	23	23	22	19	18	19	19	18	15	13	12		16.6	23.2	
6-Jul-05	11	10	11	11	11	12	13	14	14	14	14	15	17	17	19	20	20	20	19	18	17	16	14	13		15.0	20.0	
7-Jul-05	12	12	12	11	11	11	12	14	16	16	17	18	18	19	19	20	20	20	20	20	18	16	15	13		15.9	20.3	
8-Jul-05	11	9	9	8	8	8	10	12	13	15	16	18	18	19	19	19	19	18	17	19	18	11	10	9		13.9	19.2	
9-Jul-05	8	8	7	6	5	5	10	11	13	15	17	18	18	19	19	19	19	19	18	18	17	15	13	12		13.7	19.3	
10-Jul-05	11	10	9	6	4	7	11	14	15	16	18	19	20	20	21	21	21	22	20	18	17	13	10	13		14.8	21.5	
11-Jul-05	12	10	8	6	5	5	6	10	15	17	19	20	21	20	19	21	22	23	22	23	21	14	11	9		15.0	22.7	
12-Jul-05	8	7	6	5	5	5	10	12	13	15	16	19	22	23	22	22	22	21	20	18	17	15	13	13		14.7	22.6	
13-Jul-05	12	11	11	11	12	12	12	13	15	17	19	21	21	21	22	23	22	21	21	20	19	18	16	15		16.8	22.9	
14-Jul-05	15	14	14	14	14	14	14	15	17	18	19	20	21	21	22	21	21	21	20	19	18	16	13	11		17.2	21.7	
15-Jul-05	10	9	10	11	11	11	11	11	12	13	14	15	16	16	17	16	15	15	15	14	13	13	12	12		13.0	16.7	
16-Jul-05	12	12	12	11	11	11	11	11	12	12	13	13	14	15	15	16	16	16	18	18	19	17	16	15	14		13.9	18.7
17-Jul-05	13	13	12	12	11	10	13	15	17	20	21	23	24	25	25	25	26	26	25	24	23	20	21	17		19.3	25.9	
18-Jul-05	16	14	14	14	14	14	14	16	17	18	18	19	20	18	18	18	16	14	15	15	14	13	12	11		15.5	20.1	
19-Jul-05	11	10	10	10	11	11	9	9	9	10	11	11	12	13	15	16	15	14	14	15	13	11	9	9		11.6	15.8	
20-Jul-05	8	8	8	8	7	7	7	9	11	14	17	18	20	20	18	16	14	13	13	13	13	12	11	10		12.3	19.9	
21-Jul-05	9	9	8	6	6	6	9	10	12	14	16	17	17	19	19	20	21	21	20	19	17	14	12	11		13.8	20.7	
22-Jul-05	9	8	8	7	7	7	10	13	15	17	19	20	21	21	20	20	20	19	19	16	15	15	14		14.8	20.9		
23-Jul-05	13	13	12	12	11	11	10	11	12	12	12	12	13	12	13	13	12	11	11	10	9	9	8	8		11.3	13.5	
24-Jul-05	8	7	6	5	4	4	5	7	9	12	14	16	16	17	16	16	17	18	17	14	13	12	12	9		11.4	17.8	
25-Jul-05	7	6	6	7	8	9	9	11	13	16	17	18	20	20	21	21	17	14	16	15	14	12	12	12		13.4	21.3	
26-Jul-05	12	11	10	10	10	10	11	11	12	13	14	15	16	17	17	18	18	18	18	17	14	13	12	11		13.7	18.2	
27-Jul-05	10	10	10	10	9	9	10	12	14	16	17	19	20	20	20	18	16	16	15	15	15	14	14	13		14.2	20.4	
28-Jul-05	12	11	11	9	8	9	9	13	15	17	19	21	18	18	20	21	22	21	21	21	19	17	14	12		15.7	21.8	
29-Jul-05	10	10	9	8	7	7	9	12	13	16	19	21	20	17	21	22	23	22	22	21	19	17	12	10		15.3	22.8	
30-Jul-05	9	11	11	11	11	12	12	13	16	18	18	20	21	22	21	21	21	20	19	16	15	15	14	14		15.8	21.5	
31-Jul-05	14	14	13	13	12	11	13	15	15	17	20	22	23	24	24	25	24	24	22	20	18	18	15	14		17.9	24.7	
Hourly Avg	11.2	10.6	10.0	9.4	9.1	9.4	10.8	12.4	14.1	15.7	17.1	18.3	19.0	19.3	19.7	19.8	19.4	19.1	18.8	18.0	16.6	14.7	13.2	12.1				
Hourly Max	15.8	14.2	14.1	14.1	14.0	13.7	14.5	15.8	17.9	19.7	21.2	22.5	23.9	24.7	25.0	25.4	25.8	25.9	25.3	24.4	22.6	20.4	21.0	17.1				

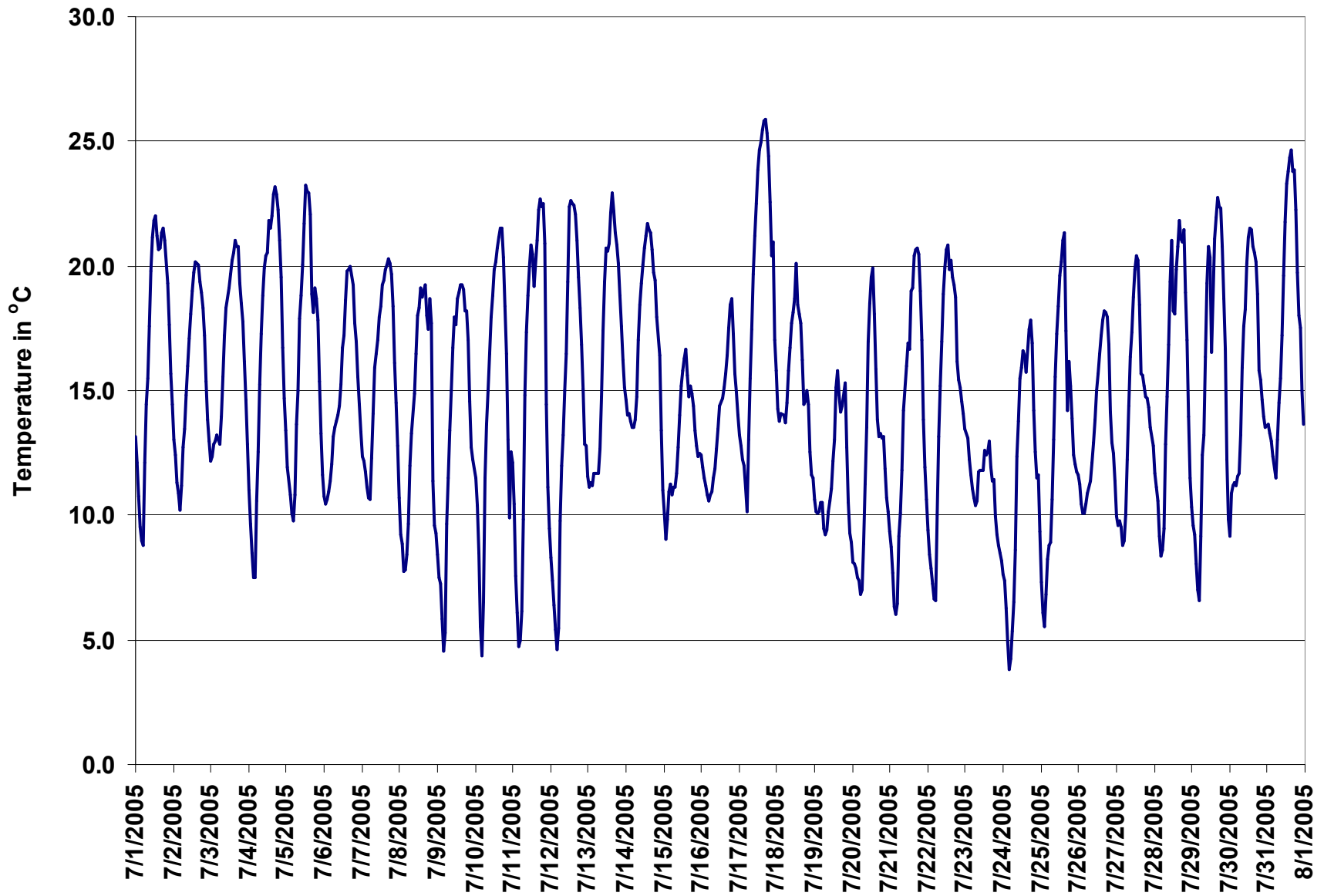


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

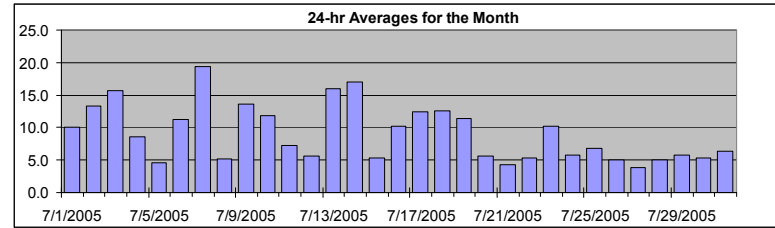
Wind Speed (WSs)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	31.3	km/hr	7-Jul	12:00 13:00
Maximum 24-hr Value:	19.4	km/hr	7-Jul	

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
	25.9	21.6	13.0	7.1	4.0	2.2	1.6	9.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	6	4	3	4	4	3	5	8	9	11	12	12	13	14	23	21	18	15	11	9	6	12	8	12	10.1	22.8
2-Jul-05	11	14	12	10	6	7	10	11	16	16	14	15	14	16	15	14	17	19	18	17	13	12	12	13	13.2	18.5
3-Jul-05	12	13	14	16	22	20	18	19	22	24	22	21	21	19	19	17	16	17	14	9	7	5	5	5	15.7	24.5
4-Jul-05	5	3	2	3	3	5	7	8	9	8	11	13	16	18	14	13	12	11	11	14	8	6	4	3	8.5	17.7
5-Jul-05	2	2	3	2	2	3	3	4	4	5	4	6	7	9	8	10	11	4	3	7	5	2	2	2	4.6	10.7
6-Jul-05	2	3	2	3	4	3	3	4	6	10	7	12	19	19	18	18	24	20	17	15	15	17	14	15	11.2	24.3
7-Jul-05	15	15	13	12	12	11	11	17	24	26	29	30	31	28	26	26	26	27	24	20	13	12	11	7	19.4	31.3
8-Jul-05	5	2	3	5	3	3	4	6	4	4	6	5	6	4	5	5	6	7	3	3	6	21	6	4	5.2	20.7
9-Jul-05	2	4	8	3	2	3	9	11	16	17	17	20	19	18	22	22	26	22	18	16	13	11	13	13	13.5	25.8
10-Jul-05	11	12	7	3	3	7	12	16	20	18	17	18	17	16	16	15	15	14	15	9	5	4	5	8	11.8	20.4
11-Jul-05	8	5	4	3	3	2	2	3	9	16	15	14	13	13	9	9	11	11	10	4	2	2	2	3	7.3	16.3
12-Jul-05	2	4	2	1	2	3	2	4	4	4	5	7	6	10	18	15	12	8	6	4	4	4	4	5	5.7	17.9
13-Jul-05	6	7	8	8	9	5	3	3	5	17	22	23	24	24	23	23	27	24	26	25	22	19	15	15	15.9	26.6
14-Jul-05	16	16	18	15	15	17	19	18	22	26	24	25	23	22	21	22	19	17	15	15	11	7	3	3	17.1	25.6
15-Jul-05	4	3	5	6	6	6	5	5	3	5	6	5	5	6	7	6	6	7	8	5	3	3	4	6	5.3	8.4
16-Jul-05	9	9	9	11	11	11	12	11	12	10	12	14	16	13	13	8	7	8	10	10	8	7	8	7	10.3	15.6
17-Jul-05	6	6	5	5	4	2	4	12	15	14	15	19	17	16	18	18	17	17	18	15	13	9	15	18	12.4	18.5
18-Jul-05	11	10	12	12	7	7	8	12	13	16	18	16	17	19	10	17	16	14	16	12	8	7	9	12	12.5	19.3
19-Jul-05	10	11	12	13	16	16	15	14	14	13	13	12	7	9	13	17	17	16	12	9	5	3	3	2	11.4	17.5
20-Jul-05	2	4	2	2	3	3	3	2	3	5	6	8	9	8	5	10	12	9	7	7	7	6	6	4	5.6	11.6
21-Jul-05	3	2	3	3	2	3	4	3	4	5	5	5	5	6	6	6	8	7	6	5	4	3	3	3	4.3	7.8
22-Jul-05	1	3	2	2	2	2	2	5	4	5	7	7	8	8	10	10	9	8	7	7	6	5	3	5	5.4	10.3
23-Jul-05	6	5	9	11	12	12	13	12	14	14	13	15	15	16	16	16	13	8	7	7	4	3	2	3	10.2	16.3
24-Jul-05	2	2	2	2	2	2	2	3	3	4	6	6	9	10	11	11	10	7	8	15	7	5	8	3	5.8	14.6
25-Jul-05	3	2	5	5	7	6	6	9	11	9	9	9	10	11	9	9	14	5	4	4	5	5	4	4	6.8	13.7
26-Jul-05	3	3	3	4	4	5	4	4	3	4	5	5	6	7	9	7	7	8	7	5	9	5	4	3	5.0	8.9
27-Jul-05	3	3	2	3	3	3	2	4	6	5	4	6	6	5	5	5	7	4	4	3	3	3	3	3	3.9	6.7
28-Jul-05	3	4	2	3	2	2	2	3	4	5	4	9	13	8	9	8	4	6	4	3	5	6	5	4	5.0	12.8
29-Jul-05	2	4	6	2	2	3	5	5	3	5	8	8	6	8	4	6	12	10	11	8	7	7	3	2	5.8	12.4
30-Jul-05	3	8	4	5	5	7	5	4	8	8	7	7	8	7	6	7	8	4	5	4	2	2	2	2	5.3	8.4
31-Jul-05	3	2	3	3	3	2	3	4	5	5	7	12	17	17	14	13	11	6	4	4	4	6	3	3	6.4	17.4
1-hr Average	5.8	5.9	6.0	5.9	5.7	6.0	6.5	7.8	9.5	10.8	11.3	12.4	13.1	13.0	13.0	13.1	13.4	11.6	10.7	9.3	7.4	7.1	6.1	6.2		
Hourly Max	16.4	16.3	18.0	16.3	21.7	20.3	19.1	18.8	23.7	26.5	28.9	30.3	31.3	28.2	25.7	25.9	26.6	26.9	26.0	25.1	21.8	20.7	14.7	18.2		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

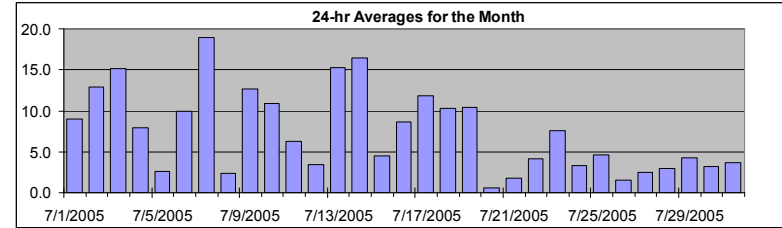
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	30.7	km/hr	7-Jul	12:00 13:00
Maximum 24-hr Value:	18.9	km/hr	7-Jul	



Calm Time:	27 hrs	4% calms	Operational Time:	717 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	25.6	21.3	12.9	6.9	3.3	1.4	1.0	43.1 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	6	4	3	3	2	2	5	8	8	10	11	11	12	13	22	20	17	15	11	8	5	12	8	12	9.0	22.2	
2-Jul-05	11	13	12	10	5	7	10	10	15	15	13	14	13	15	13	14	16	18	17	17	13	12	12	12	12.9	18.1	
3-Jul-05	12	13	14	16	22	20	18	19	21	24	22	20	20	19	18	17	16	16	14	8	6	4	4	4	15.2	24.1	
4-Jul-05	4	2	1	2	2	5	7	7	8	7	10	11	15	17	14	12	11	11	10	14	8	6	3	3	7.9	16.7	
5-Jul-05	1	2	2	calm	calm	2	3	4	3	5	4	5	5	7	7	9	10	3	2	6	4	2	1	1	2.6	10.2	
6-Jul-05	1	1	calm	2	2	1	2	1	5	9	6	12	19	18	17	18	24	19	16	15	15	17	14	14	9.9	23.9	
7-Jul-05	14	14	13	12	12	10	11	17	23	26	28	30	31	28	25	25	25	27	24	19	13	12	11	6	18.9	30.7	
8-Jul-05	5	2	3	5	1	2	4	5	3	3	5	3	5	2	4	4	5	6	3	2	4	20	4	3	2.3	20.0	
9-Jul-05	2	3	8	1	1	3	9	11	15	17	17	20	19	18	21	22	26	21	18	15	13	11	13	13	12.7	25.5	
10-Jul-05	11	12	7	2	3	7	12	16	20	18	16	17	16	16	15	13	13	13	15	9	5	4	5	8	10.9	20.2	
11-Jul-05	8	5	4	2	2	2	3	9	16	15	13	12	9	8	9	10	10	9	4	2	1	2	3	6.3	16.0		
12-Jul-05	1	1	1	1	1	1	2	4	3	3	3	6	4	7	17	14	11	5	5	4	3	3	3	5	3.4	17.2	
13-Jul-05	6	7	8	8	9	3	3	3	4	16	21	22	24	24	22	23	26	23	26	25	22	19	15	15	15.3	26.2	
14-Jul-05	16	16	18	15	15	17	19	18	21	25	23	25	22	21	20	21	18	16	14	14	10	7	3	3	16.4	25.0	
15-Jul-05	4	3	5	6	5	6	5	3	2	4	5	5	5	3	5	5	6	7	8	5	3	3	4	6	4.5	8.2	
16-Jul-05	9	9	9	11	11	11	12	11	12	10	12	13	15	12	13	8	7	7	10	9	8	7	8	6	8.6	15.2	
17-Jul-05	6	6	5	5	4	1	4	12	15	13	14	18	16	15	18	17	17	17	18	15	13	8	14	18	11.8	18.0	
18-Jul-05	9	9	12	12	6	7	8	11	12	16	17	14	17	18	9	16	15	13	16	12	8	7	9	12	10.3	18.4	
19-Jul-05	10	11	12	13	16	16	14	13	13	13	13	12	7	8	13	16	17	16	12	8	5	2	3	calm	10.4	17.1	
20-Jul-05	calm	4	1	1	2	2	1	calm	calm	4	5	7	8	7	5	10	11	9	6	6	6	6	6	3	0.6	10.6	
21-Jul-05	1	calm	3	1	calm	3	3	2	4	3	calm	calm	4	3	3	5	7	6	5	5	4	3	3	3	1.8	7.0	
22-Jul-05	calm	2	2	1	1	1	calm	4	3	4	6	5	7	7	10	10	9	7	6	3	5	4	calm	5	4.1	10.0	
23-Jul-05	5	5	8	10	11	11	12	11	14	14	12	14	14	15	15	16	12	8	6	7	3	3	calm	2	7.6	15.6	
24-Jul-05	2	1	1	2	1	calm	1	1	1	2	4	2	8	9	9	11	10	6	8	14	7	4	8	3	3.4	14.4	
25-Jul-05	2	calm	4	5	6	6	6	8	11	8	8	8	8	8	7	7	12	3	4	3	2	3	calm	3	4.6	12.1	
26-Jul-05	1	1	2	2	3	3	3	calm	2	3	4	4	5	6	8	6	6	7	6	3	7	3	3	3	1.5	8.0	
27-Jul-05	3	2	1	2	2	1	1	3	5	4	3	5	6	4	5	3	5	3	4	2	2	3	1	2	2.5	5.8	
28-Jul-05	2	3	2	calm	calm	2	calm	2	3	5	2	8	11	7	8	7	2	5	3	2	5	6	5	1	3.0	10.8	
29-Jul-05	1	4	5	1	1	2	5	5	2	4	7	7	5	4	3	5	11	10	10	8	7	7	calm	calm	4.2	11.2	
30-Jul-05	calm	8	2	4	4	7	3	1	8	7	6	6	6	6	5	6	8	3	5	calm	2	2	calm	2	3.2	8.0	
31-Jul-05	3	1	2	3	1	1	2	4	4	4	5	11	17	17	14	12	10	6	4	2	3	5	2	2	3.7	17.0	
1-hr Vector	3.9	4.5	4.8	3.9	4.1	4.4	5.0	6.1	7.7	8.5	8.3	9.1	10.2	9.9	10.1	9.9	10.7	8.5	7.6	6.6	5.4	5.7	4.6	3.7			
Hourly Max	16.3	16.2	17.9	16.1	21.6	20.2	19.0	18.6	23.2	26.0	28.5	29.7	30.7	27.7	25.1	25.2	26.2	26.5	25.6	24.9	21.7	20.0	14.6	17.9			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	339.5	310.1	267.3	245.2	189.4	51.3	16.4	258 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	200	214	203	215	173	345	292	298	283	276	286	286	280	276	251	247	243	251	246	245	206	255	259	261	258	WSW
2-Jul-05	263	262	252	250	259	254	255	253	252	269	272	273	261	262	287	271	269	277	277	269	266	254	231	236	263	W
3-Jul-05	228	237	236	242	249	248	248	256	257	266	266	278	275	279	275	274	273	274	277	279	288	259	281	265	262	W
4-Jul-05	177	211	176	199	203	218	213	221	265	209	250	242	254	253	253	252	270	260	257	255	250	241	220	201	244	WSW
5-Jul-05	150	66	202	67	86	148	195	189	194	205	188	194	235	264	281	293	284	321	144	210	200	142	196	164	226	SW
6-Jul-05	36	134	160	52	64	315	334	270	228	281	280	247	251	253	255	262	257	266	264	243	256	258	247	236	257	WSW
7-Jul-05	229	235	243	243	232	220	232	252	254	267	259	253	263	253	259	266	264	253	256	251	234	227	226	219	251	WSW
8-Jul-05	205	205	172	194	168	46	36	177	185	17	71	56	219	291	287	308	297	213	186	153	196	252	211	193	221	SW
9-Jul-05	162	209	208	139	169	211	228	226	234	254	249	250	271	261	253	257	255	253	268	264	256	227	220	224	247	WSW
10-Jul-05	227	220	209	71	193	208	229	245	254	249	258	273	270	266	256	267	268	262	272	273	260	234	200	247	252	WSW
11-Jul-05	250	236	186	186	194	195	198	184	225	248	257	258	248	268	241	249	263	285	311	316	276	190	195	198	250	WSW
12-Jul-05	227	254	204	200	190	180	178	192	200	273	269	325	339	202	241	268	274	14	82	176	231	249	249	241	249	WSW
13-Jul-05	213	209	227	215	223	277	219	175	202	252	256	261	254	261	262	264	258	256	263	259	251	246	239	237	251	WSW
14-Jul-05	245	245	247	245	246	248	245	252	252	263	267	271	273	278	269	273	280	287	301	292	285	269	246	262	265	W
15-Jul-05	217	209	195	198	218	235	250	208	162	165	157	148	172	224	280	184	163	171	197	194	147	165	191	217	195	SSW
16-Jul-05	234	250	248	249	250	248	248	251	260	257	272	320	319	327	331	343	328	298	306	293	272	263	270	265	280	W
17-Jul-05	268	263	269	269	289	254	270	257	251	270	272	263	260	260	251	253	264	270	265	263	251	219	250	326	263	W
18-Jul-05	294	232	221	230	276	263	254	271	282	278	278	292	287	339	16	340	328	295	274	282	303	252	249	257	284	WNW
19-Jul-05	268	265	263	267	263	278	278	280	273	302	317	306	294	255	236	256	248	250	258	258	218	214	224	73	268	W
20-Jul-05	245	196	188	102	180	175	210	105	328	58	77	92	66	84	135	193	222	313	345	288	280	269	253	301	219	SW
21-Jul-05	26	65	207	168	182	211	303	246	231	270	124	86	148	31	16	80	54	79	86	95	71	57	50	13	77	ENE
22-Jul-05	263	334	276	310	270	327	287	59	51	54	68	87	64	55	37	35	30	25	3	20	349	36	163	44	36	NE
23-Jul-05	40	77	297	279	267	282	287	287	278	278	297	295	304	309	314	311	344	29	31	44	48	52	49	44	309	NW
24-Jul-05	27	55	173	195	94	172	70	22	53	16	304	293	346	339	251	234	252	277	248	251	230	229	246	210	266	W
25-Jul-05	184	152	207	255	255	286	302	273	269	283	264	271	256	295	300	305	279	160	182	186	193	169	46	86	264	W
26-Jul-05	195	112	89	119	81	79	182	284	74	70	70	87	172	204	239	241	234	233	274	279	328	269	242	203	220	SW
27-Jul-05	218	252	12	160	163	138	94	159	142	144	158	189	188	177	173	118	27	64	78	132	153	164	105	98	145	SE
28-Jul-05	198	195	231	70	134	205	228	242	276	249	216	276	271	281	213	221	197	4	59	163	224	235	216	95	237	WSW
29-Jul-05	40	207	201	119	167	197	199	207	161	193	197	216	243	283	165	207	265	282	268	255	256	238	3	217	234	SW
30-Jul-05	110	220	198	249	224	229	199	325	255	253	242	247	283	329	327	175	207	265	244	102	67	87	155	173	239	WSW
31-Jul-05	177	196	76	93	310	174	120	166	195	193	226	252	257	260	255	271	277	325	22	49	332	243	113	355	256	WSW
Hourly Avg	235	231	230	234	237	245	247	249	251	262	263	267	268	273	265	265	269	273	272	261	256	243	235	246		

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	66.7	56.1	32.4	17.7	11.1	6.5	4.8

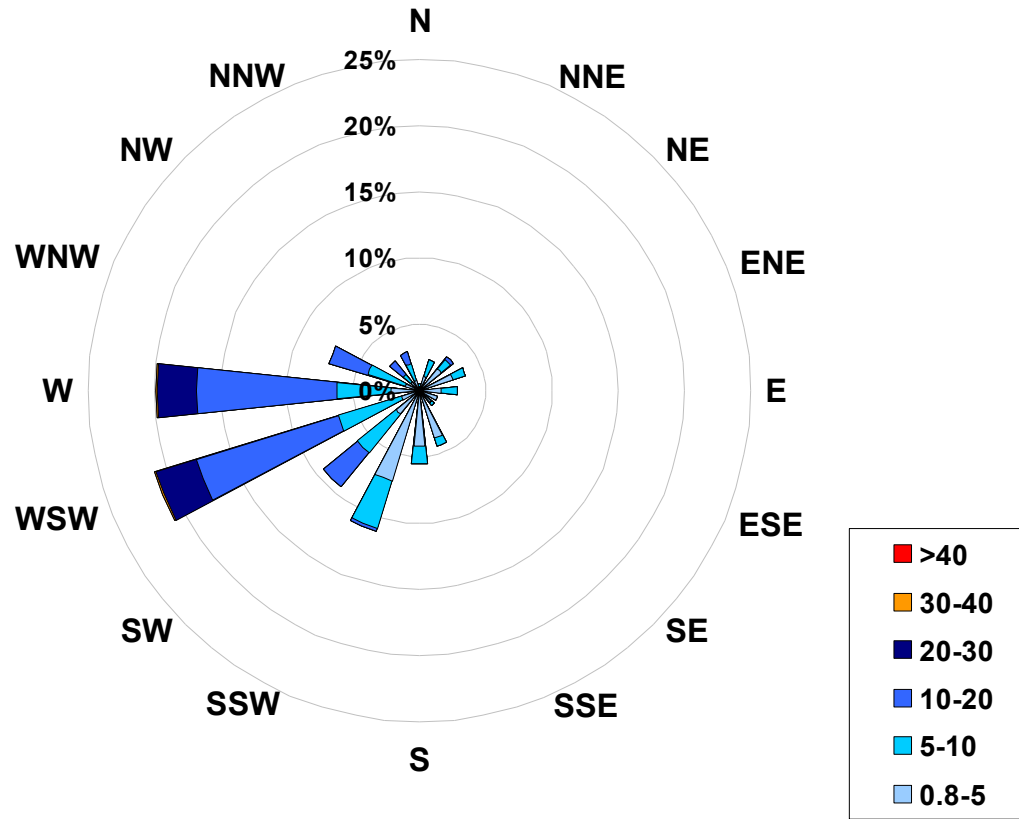
Status Flag Characters

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-Jul-05	19	21	30	15	32	50	18	20	16	20	21	24	22	20	10	9	10	9	13	15	6	8	8	9	50.1
2-Jul-05	8	7	5	7	23	13	12	14	11	16	17	18	25	19	22	18	16	13	11	9	9	9	6	7	25.5
3-Jul-05	5	6	7	7	6	6	6	7	9	10	11	13	15	15	16	16	16	18	13	15	15	22	16	17	22.4
4-Jul-05	32	50	55	52	23	9	7	10	15	29	24	20	17	16	11	14	20	22	11	9	10	8	9	17	54.9
5-Jul-05	26	49	11	62	56	64	21	19	28	18	28	32	43	15	22	15	12	41	35	20	11	39	38	42	63.7
6-Jul-05	64	67	64	48	41	43	66	34	15	14	24	10	10	9	14	14	9	14	9	9	7	7	8	7	67.3
7-Jul-05	7	8	7	7	7	6	10	8	10	11	9	11	11	8	12	12	10	9	9	9	7	4	5	22	21.8
8-Jul-05	10	55	11	11	33	42	22	22	59	57	27	37	39	67	36	35	32	26	20	32	27	12	24	22	66.7
9-Jul-05	44	19	7	66	62	14	12	7	9	8	14	14	14	14	10	11	7	9	10	10	7	8	3	4	66.0
10-Jul-05	4	3	13	37	32	10	7	7	8	11	14	17	19	15	19	23	25	18	12	11	14	14	8	10	36.8
11-Jul-05	6	18	12	23	46	36	34	21	16	12	15	18	22	21	22	19	21	18	15	22	37	24	40	32	45.9
12-Jul-05	45	46	34	47	17	36	44	15	33	26	40	24	56	47	13	18	18	35	22	28	26	19	20	8	55.8
13-Jul-05	9	4	5	5	5	40	38	15	26	13	11	13	11	13	12	13	10	9	10	8	6	6	6	7	40.1
14-Jul-05	6	6	5	5	5	5	6	7	8	12	10	12	12	14	13	14	15	15	15	13	13	11	44	23	44.1
15-Jul-05	21	12	6	5	11	11	16	32	46	26	22	31	32	46	21	17	20	18	11	14	14	16	8	7	45.9
16-Jul-05	9	8	7	7	6	5	6	9	9	9	11	11	12	10	11	35	18	21	17	15	11	9	9	9	34.8
17-Jul-05	14	10	11	10	15	48	20	10	7	15	15	13	16	16	16	16	15	12	10	10	9	9	9	10	47.8
18-Jul-05	15	11	5	6	14	12	10	11	18	15	17	16	12	16	21	12	15	16	13	13	13	8	6	8	20.9
19-Jul-05	11	9	7	8	7	10	10	9	13	12	12	12	22	11	12	10	8	9	11	17	14	46	12	83	83.5
20-Jul-05	56	30	27	39	36	26	50	34	55	28	33	35	31	28	23	13	12	17	20	14	16	15	9	33	56.2
21-Jul-05	40	56	14	35	41	26	32	50	28	55	60	57	44	56	45	50	31	28	36	17	17	11	22	28	60.4
22-Jul-05	51	21	26	44	26	49	53	27	58	35	40	48	27	29	14	14	13	14	21	49	43	21	50	32	58.2
23-Jul-05	26	16	34	15	10	11	12	13	13	13	18	16	18	14	16	16	15	16	25	20	34	26	59	37	59.2
24-Jul-05	20	45	40	17	54	63	56	67	70	70	46	79	31	24	25	12	18	29	17	9	11	14	10	38	79.0
25-Jul-05	42	58	8	9	9	17	20	14	12	25	26	31	38	36	39	30	17	30	18	35	64	46	59	45	63.7
26-Jul-05	61	51	38	43	48	26	59	59	53	31	30	33	24	26	17	26	21	12	16	34	20	41	43	32	60.8
27-Jul-05	13	34	46	38	28	49	50	26	29	27	45	35	28	34	22	37	29	40	23	29	28	27	45	49	49.6
28-Jul-05	49	16	35	42	54	29	66	53	21	29	53	34	27	26	24	31	59	26	35	44	18	8	8	33	66.1
29-Jul-05	59	10	11	43	53	27	21	11	37	37	21	43	21	53	53	41	19	15	15	10	9	11	43	69	69.5
30-Jul-05	56	12	54	31	24	13	18	68	25	20	21	28	32	38	35	21	15	26	32	52	45	50	36	20	67.8
31-Jul-05	13	35	50	38	45	38	25	20	21	29	38	26	11	10	14	20	14	29	28	57	47	26	53	24	56.9
Hourly Max	64	67	64	66	62	64	66	68	70	70	60	79	56	67	53	50	59	41	36	57	64	50	59	83	

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for July 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	254	
5	to 10	213	
10	to 20	229	
20	to 30	46	
30	to 40	2	
	> 40	0	
Total Non-Zero Values			744

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

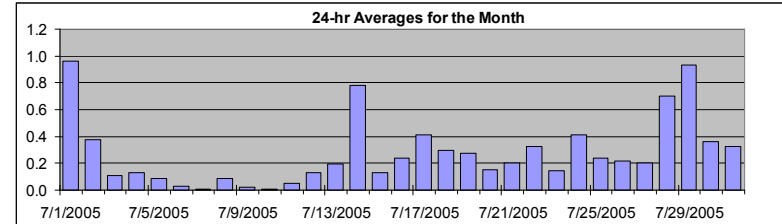
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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:	4.2 ppb	14-Jul	3:00	4:00
Maximum 24-hr Average:	1.0 ppb	1-Jul		



AIC Time:	32 hrs	Operational Time:	702 hrs					
Calibration Time:	10 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	2.0	1.1	0.3	0.1	0.0	0.0	0.0	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jul-05	1	1	1	1	1	1	3	4	1	1	1	1	1	0	1	1	0	0	0	0	0	A	1	1	1.0	3.5	
2-Jul-05	0	0	0	1	2	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	2.0
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	1	0.1	0.6
4-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0	0.1	1.3
5-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Jul-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
7-Jul-05	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	0.1
8-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
9-Jul-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
10-Jul-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
11-Jul-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0.0	0.6
12-Jul-05	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	1	1	0	0	0	0	0	0	0.1	0.6
13-Jul-05	0	1	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
14-Jul-05	0	0	1	4	A	4	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	4.2
15-Jul-05	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
16-Jul-05	0	0	A	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
17-Jul-05	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0.4	0.9
18-Jul-05	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.3
19-Jul-05	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	1.4
20-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0.1	0.5
21-Jul-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0.2	1.1
22-Jul-05	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0.3	1.1
23-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.3
24-Jul-05	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	1	A	0	1	0	0	0	0	0.4	1.7
25-Jul-05	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	A	1	0	0	0	0	0	0	0	0.2	0.7
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0.2	0.6
27-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0	0	0	0	C	0	0	0	0	0.2	0.5
28-Jul-05	0	0	0	2	1	A	1	0	1	2	2	1	1	0	0	0	0	0	0	0	C	C	C	C	A	0.7	1.9
29-Jul-05	1	1	0	0	0	A	1	1	1	3	2	1	1	1	1	0	0	1	1	2	2	1	1	1	0.9	3.1	
30-Jul-05	0	1	1	1	A	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.8
31-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	0	0	0	0	0.3	1.7
Hourly Avg	0.2	0.2	0.2	0.4	0.2	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1		
Hourly Max	1.4	0.9	1.4	4.2	2.0	3.8	4.1	3.5	1.8	3.1	2.4	1.3	1.0	1.1	1.7	0.9	1.0	0.9	0.9	1.6	1.6	1.3	0.8	0.8			

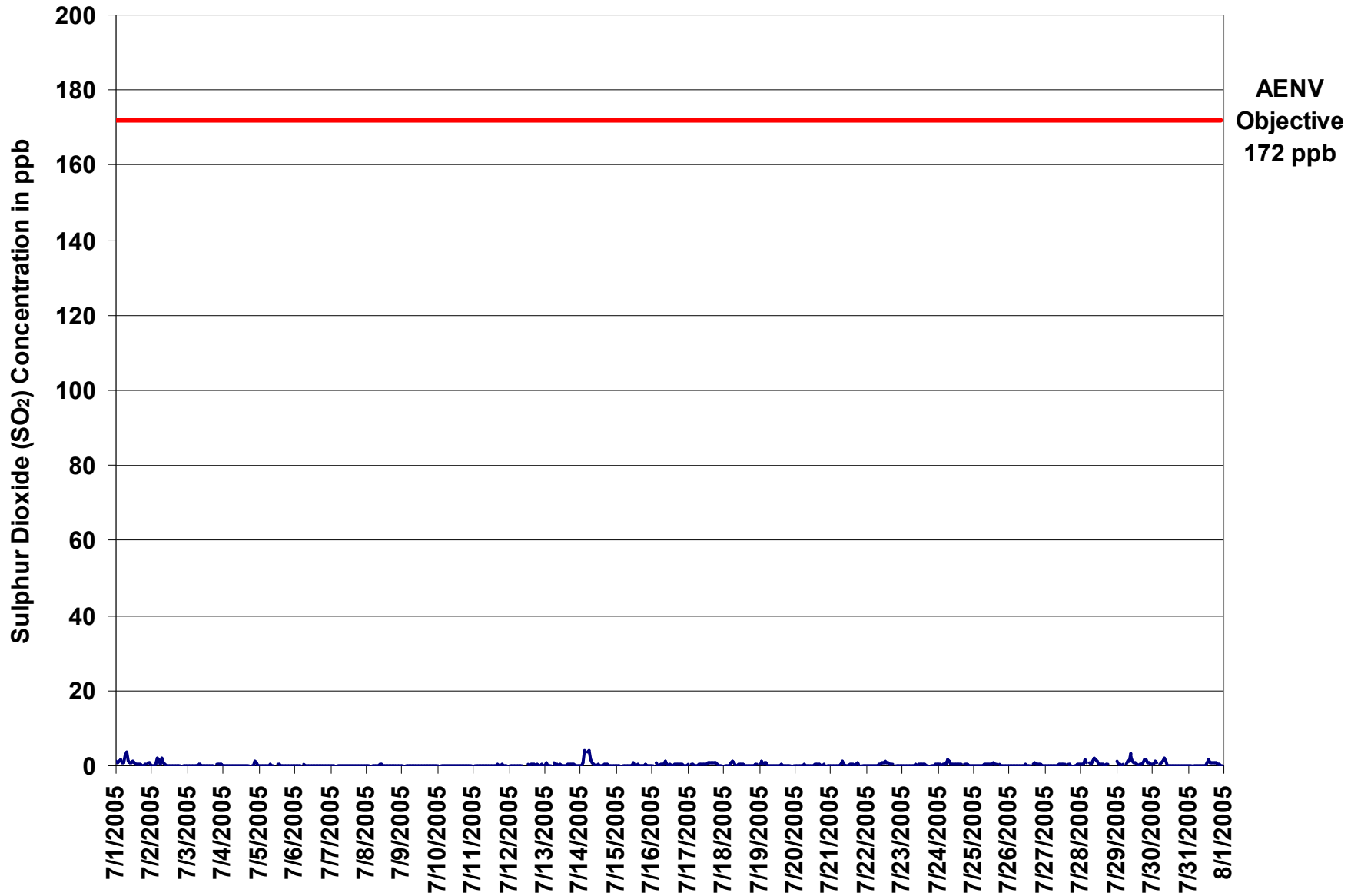


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

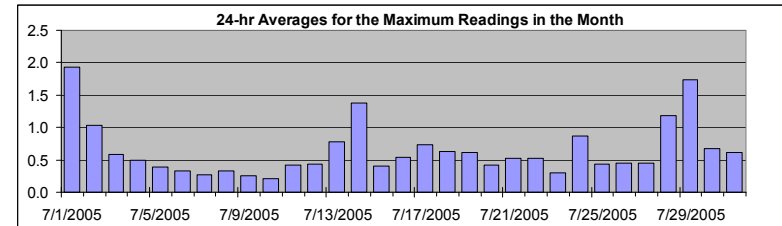
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	6.7	ppb	14-Jul	6:00 7:00
Maximum 24-hr Value:	1.9	ppb	1-Jul	

AIC Time:	32 hrs	Operational Time:	702 hrs					
Calibration Time:	10 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	4.6	2.1	0.6	0.3	0.2	0.0	0.0	0.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-05	2	1	1	2	1	2	5	6	2	2	2	2	2	1	1	1	1	1	1	1	1	A	A	5	5	1.9	6.0
2-Jul-05	0	1	0	3	3	3	3	3	1	1	0	1	1	1	0	0	0	0	0	0	1	A	1	0	0	1.0	3.3
3-Jul-05	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	A	2	1	1	1	0.6	2.0	
4-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	A	1	1	2	1	1	0.5	1.9
5-Jul-05	1	0	0	0	0	0	0	0	1	1	1	C	C	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.0
6-Jul-05	0	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
7-Jul-05	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.8
8-Jul-05	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
9-Jul-05	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	0.4
10-Jul-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
11-Jul-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	1	0	0	0	A	0.4	3.6
12-Jul-05	0	0	0	0	0	0	0	0	0	0	0	C	C	C	1	0	1	1	1	1	1	0	0	0	0	0.4	1.2
13-Jul-05	1	4	0	0	0	A	5	1	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0.8	4.8
14-Jul-05	0	0	4	6	A	6	7	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	6.7
15-Jul-05	0	0	1	A	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0.4	1.4
16-Jul-05	0	0	A	1	1	0	1	1	1	2	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0.5	1.7
17-Jul-05	1	A	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.4
18-Jul-05	A	0	1	0	1	2	2	2	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	A	0.6	2.0
19-Jul-05	1	2	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.6	2.2
20-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	0	A	0	0	0.4	1.6
21-Jul-05	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	1	1	1	A	0	0	0	0.5	2.5
22-Jul-05	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	1	0	0	0	0	0.5	1.4
23-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0.3	0.5
24-Jul-05	0	0	0	1	1	1	1	4	4	1	0	0	1	1	1	1	1	1	A	1	1	1	0	0	0	0.9	4.3
25-Jul-05	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0.4	1.0
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	0	0	0	0.4	1.3
27-Jul-05	0	0	0	0	0	0	0	0	0	1	0	1	1	1	A	1	1	0	0	C	0	0	0	1	0	0.5	1.0
28-Jul-05	1	1	1	4	1	A	1	1	2	3	2	2	1	0	1	0	0	1	1	C	C	C	C	A	0	1.2	3.8
29-Jul-05	2	1	1	1	1	A	1	2	2	5	4	2	1	1	1	0	0	1	2	3	4	1	1	1	0	1.7	5.5
30-Jul-05	1	1	2	1	A	1	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	2.9
31-Jul-05	0	0	0	A	0	0	0	0	0	0	0	0	0	2	3	1	2	1	1	1	1	1	1	0	0	0.6	2.8
Hourly Avg	0.4	0.5	0.6	0.9	0.5	0.8	1.0	1.1	0.9	0.8	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.4	0.5	0.5			
Hourly Max	1.9	4.1	4.5	6.3	2.5	5.7	6.7	6.0	3.6	5.5	4.0	2.1	1.6	1.7	2.8	1.5	3.6	1.2	1.6	3.1	4.2	1.9	4.6	4.5			

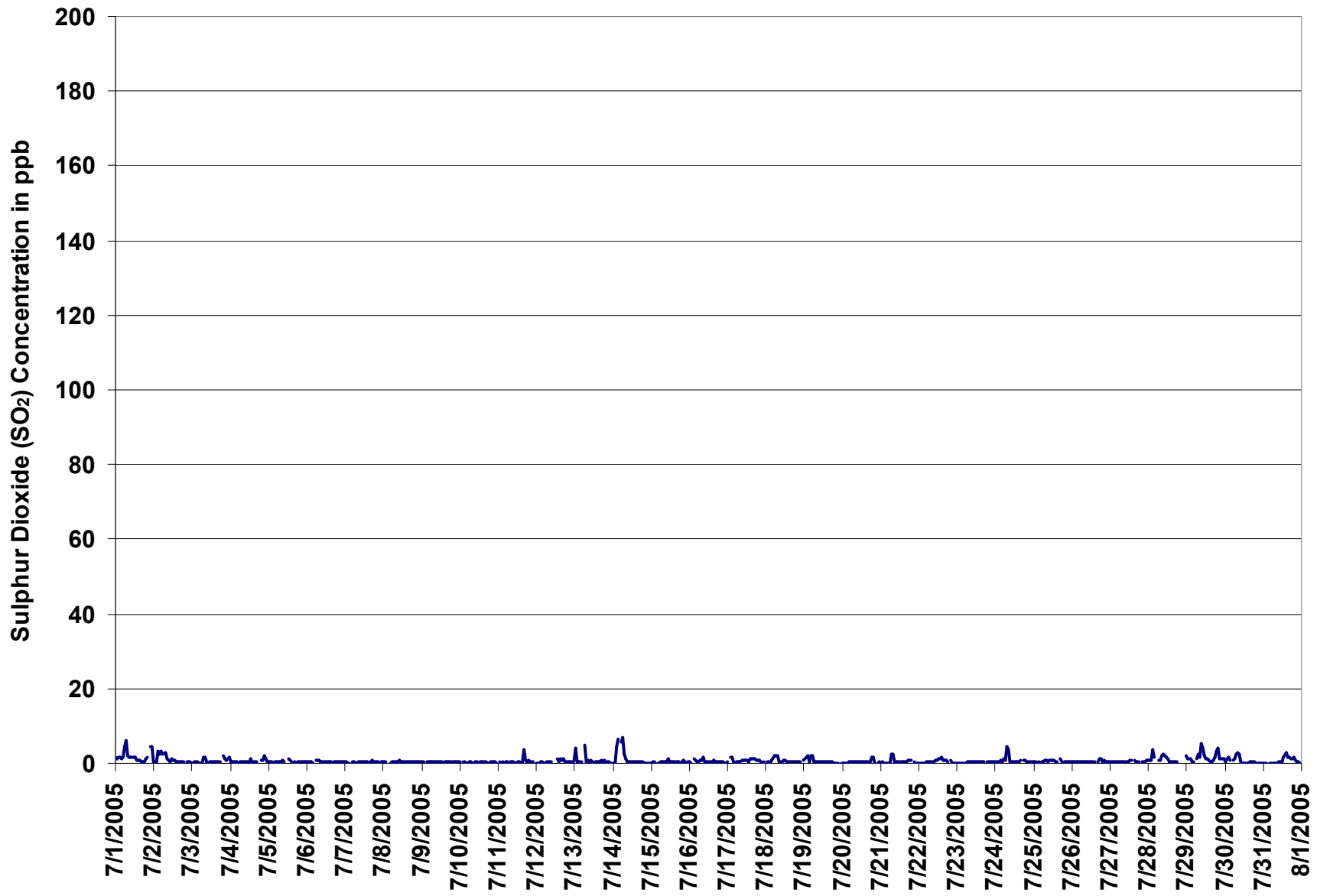
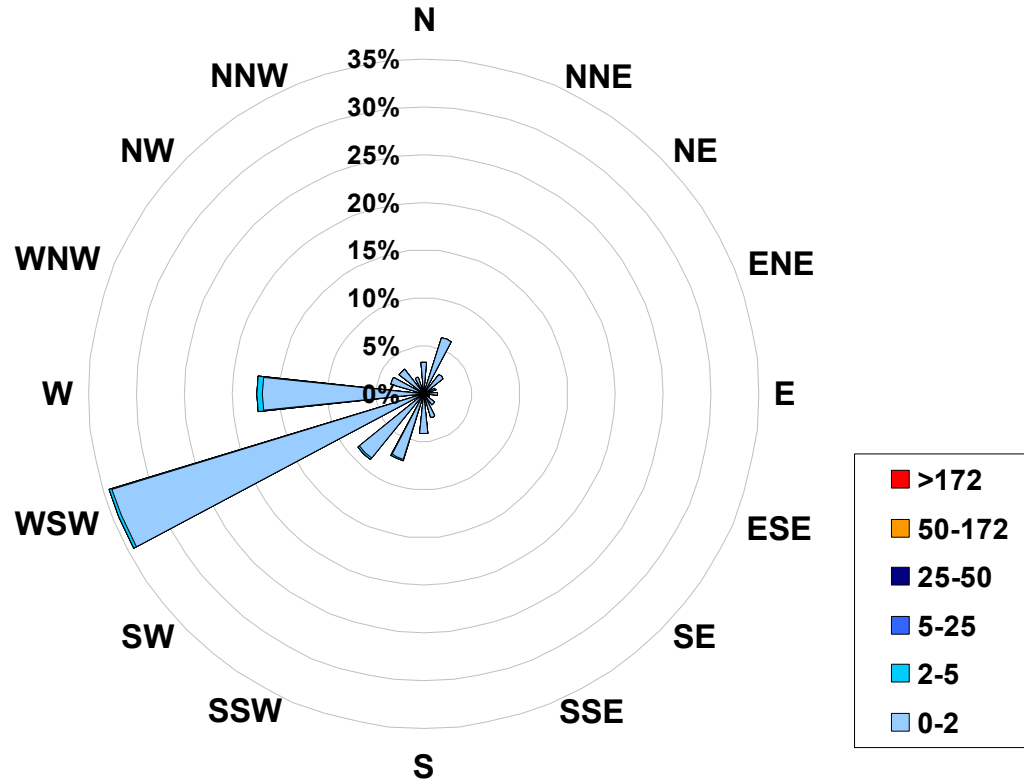


Figure 28. PASZA - Smoky Heights Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for July 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	694
2	to	5	8
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			702

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

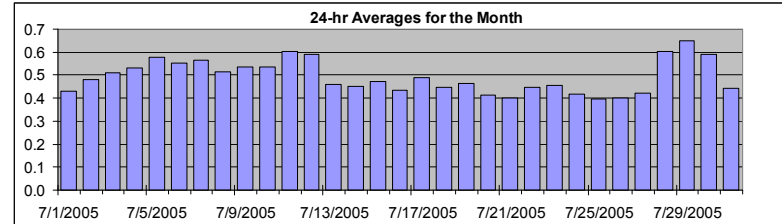
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	1.4	ppb	12-Jul	0:00 1:00
Maximum 24-hr Value:	0.7	ppb	29-Jul	

AIC Time:	32 hrs	Operational Time:	702 hrs					
Calibration Time:	10 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	0.8	0.7	0.5	0.5	0.4	0.4	0.3	0.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0	0.4	0.5	
2-Jul-05	0	1	0	1	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0.5	0.5	
3-Jul-05	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	A	1	1	1	1	0.5	0.8	
4-Jul-05	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	A	1	0	1	1	1	0.5	0.7	
5-Jul-05	1	1	1	1	1	1	1	0	0	0	0	C	C	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	
6-Jul-05	1	1	1	1	1	A	1	1	0	0	0	1	1	0	1	0	1	0	1	1	1	1	0	1	0.6	0.8	
7-Jul-05	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6	
8-Jul-05	1	1	1	A	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.7	
9-Jul-05	1	0	A	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0.5	0.7	
10-Jul-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0.5	0.8	
11-Jul-05	A	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	1	1	A	0.6	1.0	
12-Jul-05	1	1	1	1	1	1	1	1	1	1	C	C	C	0	0	0	0	0	0	1	1	1	1	1	0.6	1.4	
13-Jul-05	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	
14-Jul-05	0	0	1	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.7	
15-Jul-05	1	1	1	A	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6	
16-Jul-05	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
17-Jul-05	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5	0.6	
18-Jul-05	A	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.4	0.6	
19-Jul-05	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.5	0.6	
20-Jul-05	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.6	
21-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0.4	0.5	
22-Jul-05	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	A	0	0	0	0	0.4	0.5	
23-Jul-05	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.5	0.5	
24-Jul-05	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.5	
25-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.5	
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.5	
27-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	C	0	1	1	1	0.4	0.6	
28-Jul-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	A	0.6	0.8	
29-Jul-05	1	1	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8	
30-Jul-05	1	1	1	1	A	1	1	1	1	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0.6	0.8	
31-Jul-05	1	1	1	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0.4	0.6	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max	1.4	1.2	0.8	0.7	0.8	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8			

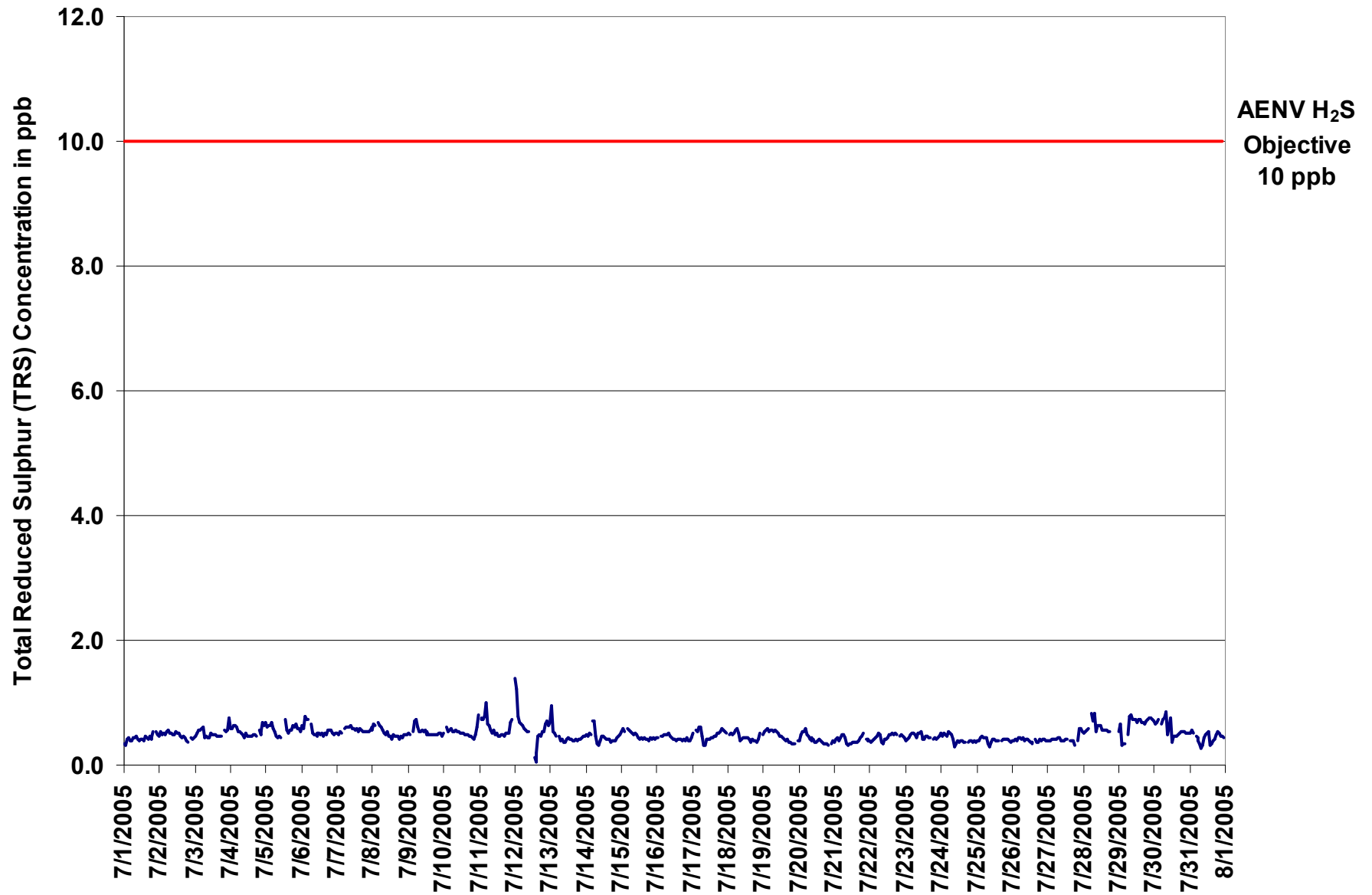


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

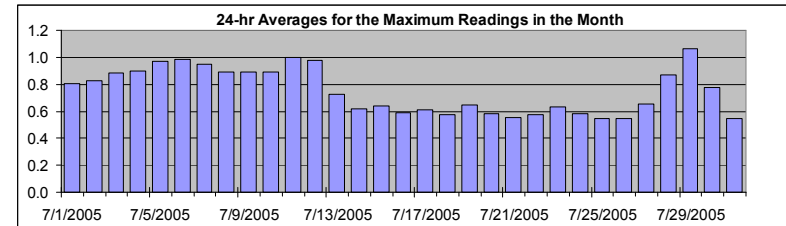
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	2.4	ppb	13-Jul	1:00 2:00
Maximum 24-hr Value:	1.1	ppb	29-Jul	

AIC Time:	32 hrs		Operational Time:	702 hrs				
Calibration Time:	10 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
2-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	0.9
3-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.3	
4-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.1	
5-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2	
6-Jul-05	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9	
7-Jul-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1	
8-Jul-05	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	0.9	1.1	
9-Jul-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
10-Jul-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
11-Jul-05	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.7	
12-Jul-05	2	2	1	1	1	1	1	1	1	1	1	C	C	C	0	0	1	1	1	1	1	1	1	1	1	1.0	2.0	
13-Jul-05	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0.7	2.4	
14-Jul-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0.6	1.2	
15-Jul-05	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	0.6	0.8	
16-Jul-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	0.6	0.7	
17-Jul-05	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9	
18-Jul-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	A	0.6	0.8	
19-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	1	1	0.6	0.9	
20-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	A	1	1	1	0.6	0.8	
21-Jul-05	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	1	1	1	A	1	1	1	1	0.6	0.7	
22-Jul-05	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.7	
23-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.9	
24-Jul-05	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	A	0	0	0	0	1	0	1	0.6	0.8	
25-Jul-05	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	A	0	1	1	1	1	1	1	0	0.5	0.7	
26-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0	0	1	0	1	1	1	0.5	0.7	
27-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	1	0	C	1	1	1	1	1	0.7	1.4	
28-Jul-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	A	1	0.9	1.2	
29-Jul-05	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	1.4	
30-Jul-05	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	0.8	1.2	
31-Jul-05	1	1	1	A	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0.5	0.7	
Hourly Avg	0.8	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8			
Hourly Max	1.8	2.4	1.9	1.4	1.2	1.7	1.2	1.1	1.2	1.1	1.1	1.1	1.0	1.2	1.1	1.0	1.1	1.0	1.1	1.0	1.4	1.2	1.4	1.1	1.2	1.3		

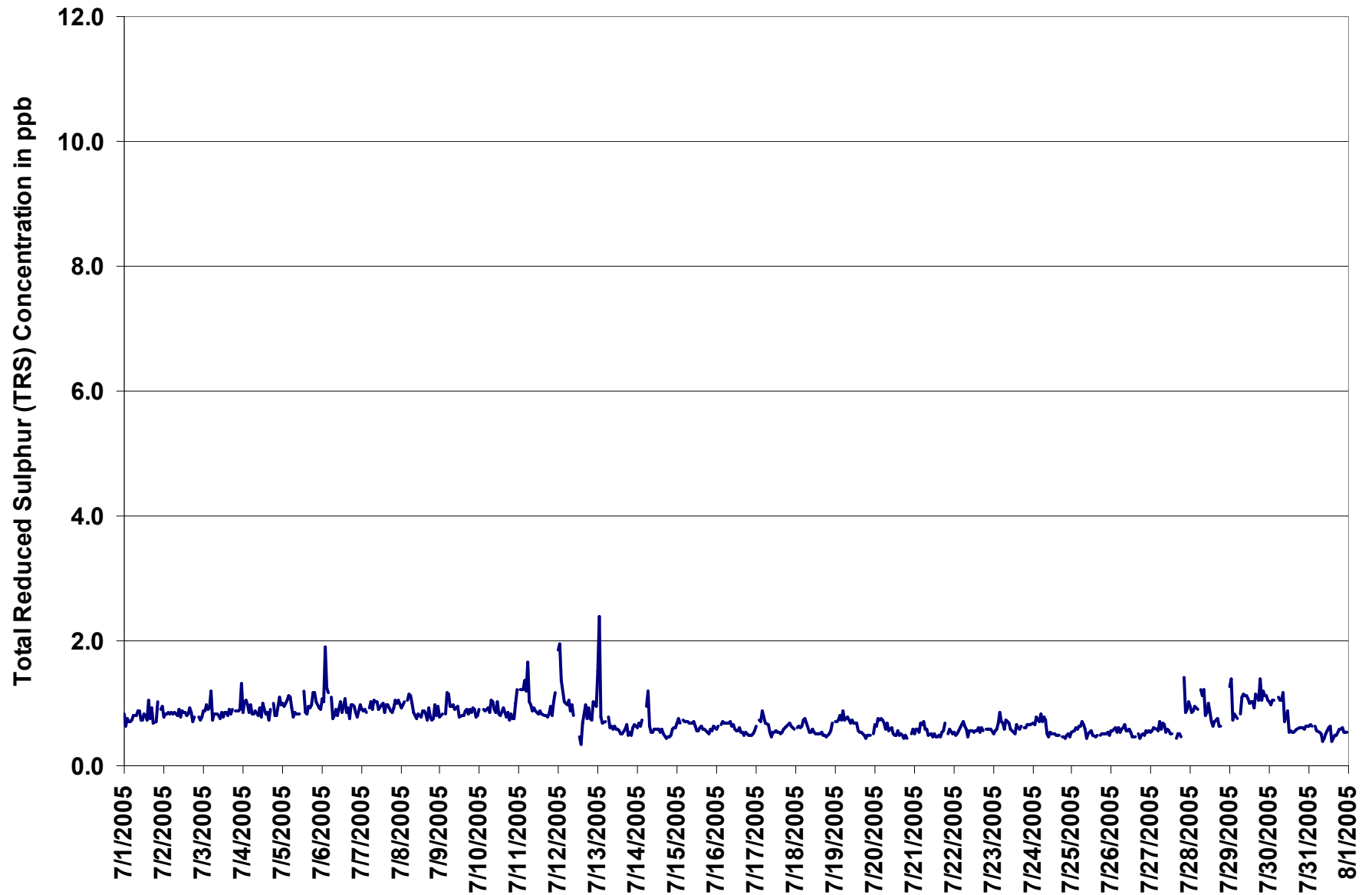
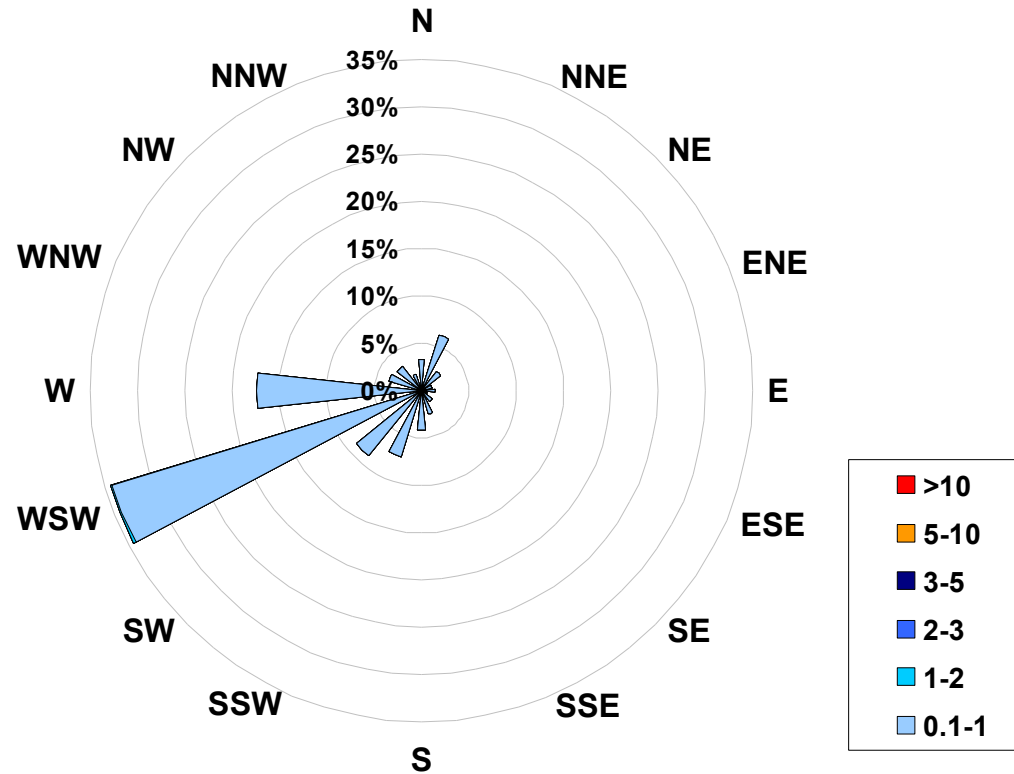


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for July 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1	700	
1	to 2	2	
2	to 3	0	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values			702

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

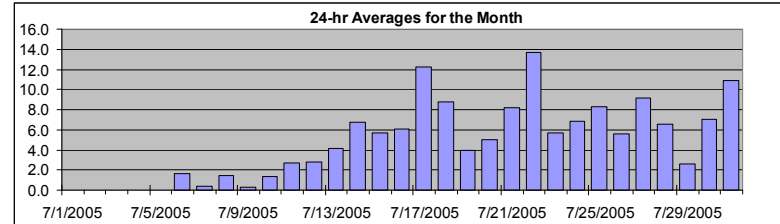
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

Draft Objective Limit: Alberta Environment: 1-hr - µg/m³ 24-hr 30 µg/m³

Number of 24-hr Exceedances (draft): 0			
Maximum 1-hr Average:	50.4 µg/m ³	27-Jul	19:00 20:00
Maximum 24-hr Value:	13.7 µg/m ³	22-Jul	

AIC Time:	0 hrs	Operational Time:	627 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	84.7%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	23.2	18.2	7.8	4.0	1.5	0.0	0.0	5.6 µg/m ³	4.1 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum				
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00						
1-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
2-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6-Jul-05	0	0	5	8	3	5	4	6	1	3	0	0	0	0	0	D	0	0	0	0	2	2	0	0	1.7	7.8				
7-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2	1	3	0.4	2.7				
8-Jul-05	0	2	0	1	1	2	5	1	1	0	0	0	0	3	1	2	4	1	2	4	2	6	0	0	1.5	5.6				
9-Jul-05	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	1	0.3	1.5				
10-Jul-05	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	1	0	1	4	3	3	3	5	4	1.3	5.1				
11-Jul-05	4	3	2	5	2	2	2	2	1	1	1	1	0	1	1	2	1	2	2	8	8	6	7	2	2.7	7.9				
12-Jul-05	3	1	5	10	3	5	4	3	4	4	C	C	C	0	0	1	1	2	2	1	1	2	3	3	2.8	9.6				
13-Jul-05	2	2	2	2	2	1	1	1	1	1	3	4	6	8	8	8	9	11	10	5	2	4	2	4	4.2	10.8				
14-Jul-05	5	5	5	4	3	3	3	3	5	6	6	7	9	10	14	13	13	10	8	2	2	6	12	10	6.8	14.0				
15-Jul-05	6	8	11	8	3	3	3	3	4	4	4	5	5	5	8	8	8	8	8	6	6	4	3	2	5.6	11.3				
16-Jul-05	4	5	6	5	4	4	3	3	2	3	3	3	4	6	6	9	9	16	14	13	5	2	7	9	6.1	16.4				
17-Jul-05	5	6	7	7	7	3	3	3	4	7	11	23	23	22	20	19	17	15	13	12	14	17	18	18	12.2	22.6				
18-Jul-05	18	19	19	19	13	7	6	4	7	9	17	16	12	5	6	4	2	4	3	6	5	3	4	5	8.8	19.1				
19-Jul-05	6	5	5	3	3	2	2	2	2	1	1	1	2	4	5	7	9	8	6	6	5	4	3	3	3.9	8.9				
20-Jul-05	3	5	4	2	2	1	1	1	1	2	2	4	6	10	19	15	5	5	8	4	5	5	5	5	5.0	19.4				
21-Jul-05	4	5	4	4	3	2	3	2	3	4	5	8	11	18	16	15	14	12	10	5	8	14	14	14	8.2	18.5				
22-Jul-05	16	13	9	9	9	9	4	3	4	7	21	25	23	18	12	8	10	12	13	18	20	20	24	21	13.7	25.0				
23-Jul-05	21	17	11	8	6	4	4	5	7	6	6	6	6	6	4	3	3	3	3	2	2	1	1	1	5.6	20.9				
24-Jul-05	2	1	1	1	1	3	4	2	2	5	6	6	9	10	16	16	12	11	11	5	7	9	13	11	6.8	16.1				
25-Jul-05	6	8	9	6	3	2	1	2	4	6	8	19	19	12	12	12	11	7	8	6	9	11	12	4	8.3	19.2				
26-Jul-05	6	7	5	4	5	5	4	4	4	4	4	5	5	6	8	9	11	12	11	4	2	2	4	3	5.6	11.6				
27-Jul-05	4	5	6	5	6	5	4	4	3	5	5	7	14	20	16	12	5	4	24	50	13	0	0	0	9.1	50.4				
28-Jul-05	0	0	0	0	0	1	4	3	0	2	3	2	3	7	10	11	15	17	17	29	32	0	0	0	6.5	32.2				
29-Jul-05	0	0	0	1	1	3	5	7	6	3	6	4	2	4	2	0	2	3	D	6	3	1	1	0	2.6	6.8				
30-Jul-05	2	4	4	5	0	1	1	2	3	2	3	7	10	13	20	23	18	14	8	6	7	5	6	9	7.0	22.5				
31-Jul-05	9	9	5	3	3	3	4	3	5	6	19	23	22	19	15	14	12	11	11	10	13	15	13	15	10.9	22.9				
Hourly Avg	4.8	5.1	4.9	4.6	3.2	2.9	2.9	2.7	2.9	3.4	5.4	7.0	7.7	7.9	8.5	8.5	7.3	6.9	7.5	8.0	6.5	5.4	5.9	5.5						
Hourly Max	20.9	18.8	19.1	18.9	12.8	8.7	6.2	6.8	7.3	8.9	21.3	25.0	23.4	22.0	20.5	22.5	17.7	16.7	23.5	50.4	32.2	20.2	23.8	21.4						

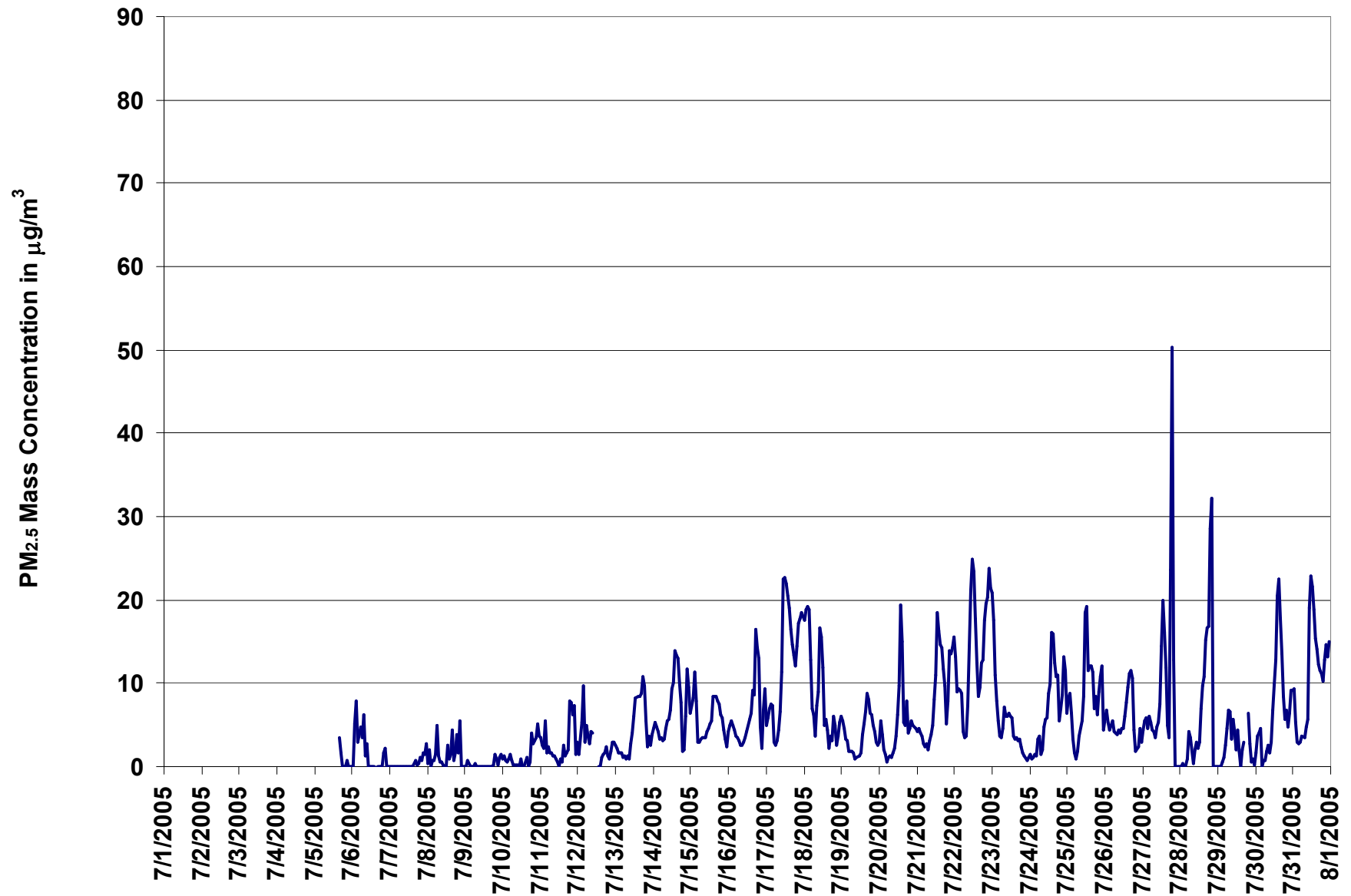


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

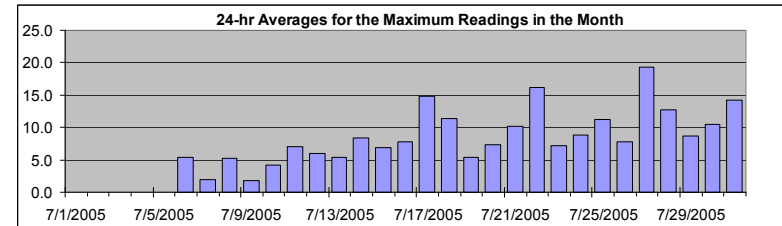
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	109.1	µg/m ³	27-Jul	19:00 20:00
Maximum 24-hr Value:	19.3	µg/m ³	27-Jul	

AIC Time:	0 hrs	Operational Time:	627 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	84.7%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	26.9	21.9	11.2	6.3	3.5	1.2	0.1	8.6 µg/m ³	7.6 µg/m ³



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
2-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
3-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
4-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
5-Jul-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	9.5
6-Jul-05	0	6	17	17	5	13	12	15	6	5	7	1	2	0	0	D	0	0	0	1	5	5	3	2	0	5.3	17.4
7-Jul-05	1	1	0	0	1	1	2	1	2	2	2	2	2	1	1	4	2	2	3	3	2	4	3	5	1.9	4.8	
8-Jul-05	3	10	1	2	4	3	19	5	3	3	3	3	1	4	3	5	16	3	4	6	4	11	4	5	5.2	19.2	
9-Jul-05	0	1	2	1	1	1	2	1	2	1	2	1	2	2	0	2	2	2	4	4	2	2	3	2	1.8	3.9	
10-Jul-05	2	3	3	2	3	2	2	2	2	1	3	4	4	1	2	6	1	3	11	6	8	11	13	8	4.2	13.3	
11-Jul-05	5	4	5	14	3	5	5	4	3	3	4	3	1	4	5	8	5	5	4	25	14	10	24	6	7.1	24.7	
12-Jul-05	9	6	12	19	5	7	6	4	7	8	C	C	C	3	1	12	3	3	4	2	2	3	4	4	5.9	19.0	
13-Jul-05	4	3	2	3	2	2	2	2	2	2	4	6	8	10	10	10	11	13	12	8	4	5	3	4	5.4	12.7	
14-Jul-05	5	6	6	5	4	4	4	4	6	6	7	9	11	12	16	15	14	12	10	3	5	8	14	16	8.4	15.9	
15-Jul-05	8	10	16	11	4	3	4	4	4	5	6	5	6	6	10	10	9	8	9	8	7	5	4	3	6.9	15.6	
16-Jul-05	6	6	7	6	5	4	4	4	3	4	4	4	7	8	7	11	13	19	16	16	11	4	8	11	7.8	18.8	
17-Jul-05	10	7	8	8	8	5	4	4	6	8	20	25	25	24	22	21	18	17	20	15	17	21	20	21	14.8	25.3	
18-Jul-05	23	20	20	20	19	9	8	7	9	14	19	19	15	11	11	9	3	5	4	7	7	3	5	6	11.3	23.5	
19-Jul-05	7	7	5	5	4	3	3	3	2	2	2	2	3	6	7	10	12	11	9	8	6	5	4	3	5.4	11.9	
20-Jul-05	5	7	6	4	3	2	2	2	2	3	9	6	9	15	23	20	10	7	11	5	6	7	6	6	7.3	22.7	
21-Jul-05	5	6	5	4	4	3	4	3	4	5	7	11	14	22	19	17	17	14	12	7	10	16	18	16	10.2	22.0	
22-Jul-05	17	19	10	10	10	10	8	4	5	10	26	27	25	22	14	11	13	14	17	19	22	25	28	23	16.2	27.7	
23-Jul-05	22	23	12	10	8	6	4	7	9	7	7	8	9	7	5	4	4	4	5	4	3	2	1	2	7.2	23.3	
24-Jul-05	2	2	2	2	2	5	6	2	5	6	8	7	11	12	20	18	14	13	13	9	9	11	16	16	8.9	19.7	
25-Jul-05	8	10	9	9	4	3	2	4	7	7	13	25	24	18	17	14	14	10	14	9	10	13	13	11	11.2	24.7	
26-Jul-05	7	8	7	5	8	7	6	5	6	6	5	7	8	9	10	13	17	15	14	7	4	5	7	4	7.8	16.9	
27-Jul-05	6	6	7	7	7	6	5	5	13	6	7	14	22	23	18	16	9	8	81	109	82	3	1	1	19.3	109.1	
28-Jul-05	1	0	8	4	2	4	7	7	4	5	6	4	6	13	14	13	19	22	20	74	68	0	2	0	12.7	74.3	
29-Jul-05	2	1	2	3	4	5	8	12	12	11	10	13	12	15	19	11	12	10	D	15	11	4	4	4	8.7	19.2	
30-Jul-05	4	8	10	11	4	2	2	4	5	3	5	10	13	18	26	25	21	19	13	8	14	6	11	11	10.5	26.2	
31-Jul-05	10	11	11	4	4	4	7	5	7	12	24	27	26	22	18	16	14	15	16	16	18	19	16	19	14.3	26.6	
Hourly Avg	6.7	7.3	7.4	7.1	4.8	4.6	5.3	4.6	5.2	5.6	8.5	9.7	10.6	11.1	11.6	12.1	10.6	9.6	12.5	14.7	13.1	8.0	8.9	7.8			
Hourly Max	23.5	23.3	20.2	20.1	18.8	13.0	19.2	14.5	13.2	13.6	26.4	27.1	26.5	23.8	26.2	25.4	21.4	22.4	80.9	109.1	82.4	25.2	27.7	23.1			

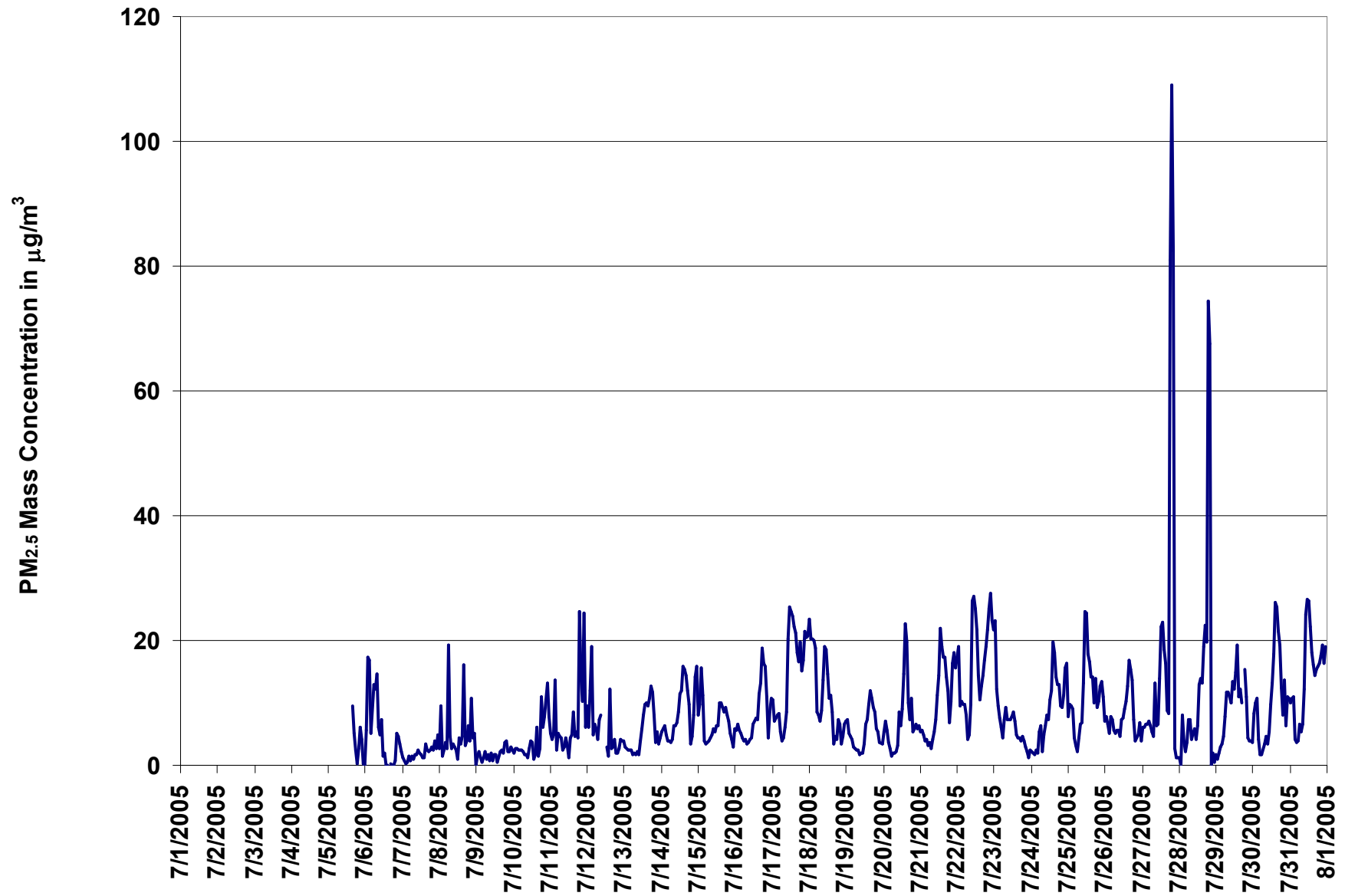
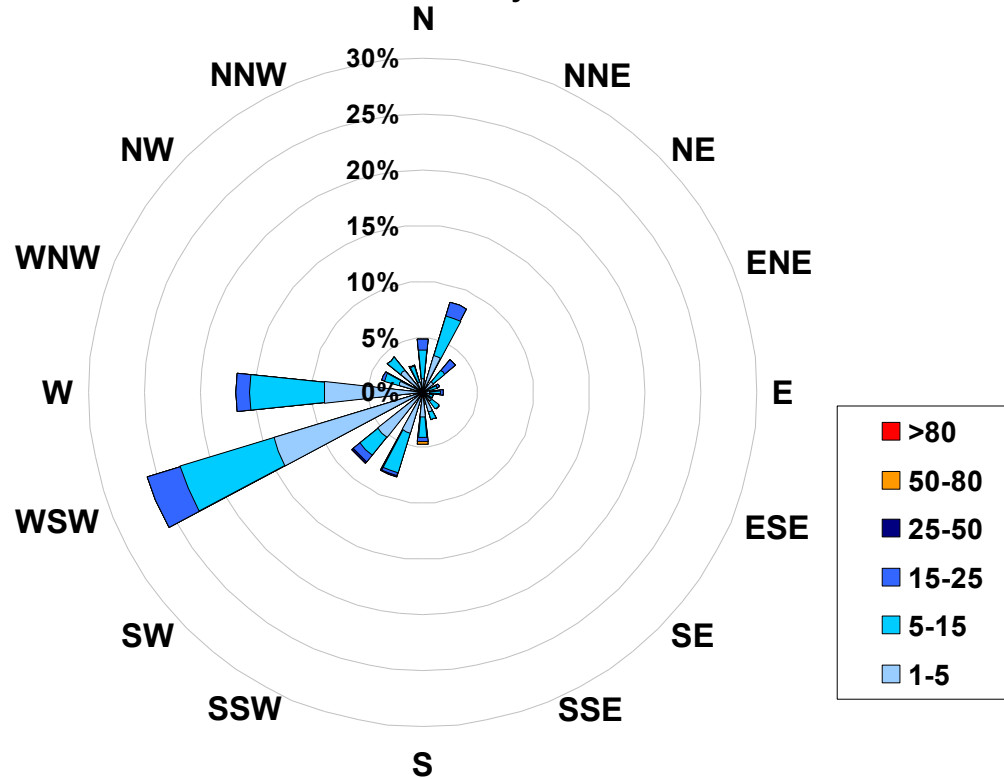


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 July 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	377	
5	to 15	197	
15	to 25	50	
25	to 50	2	
50	to 80	1	
	> 80	0	
Total Non-Zero Values			627

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

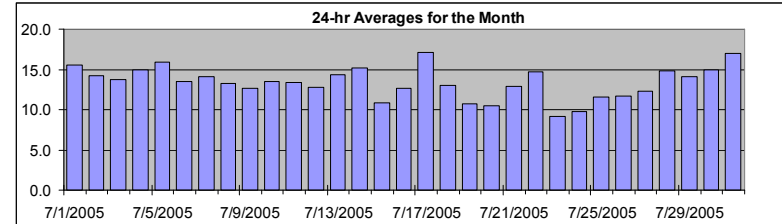
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	23.9 °C	17-Jul	17:00 18:00
Maximum 24-hr Value:	17.1 °C	17-Jul	



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
	22.8	20.5	17.3	13.2	9.7	6.4	4.1	13.4 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-05	11	12	12	12	11	11	11	12	15	18	18	19	20	20	20	18	19	20	19	19	17	13	14	13	15.6	20.4
2-Jul-05	12	10	10	10	10	10	10	12	14	15	16	17	18	19	19	19	19	18	18	17	15	13	11	10	14.2	19.1
3-Jul-05	9	7	7	7	7	8	10	12	14	16	17	18	19	19	20	20	20	19	19	18	15	12	10	8	13.7	19.8
4-Jul-05	8	7	6	5	5	7	10	12	15	17	19	19	20	21	21	21	21	21	21	20	18	16	14	13	14.9	21.5
5-Jul-05	13	12	11	10	10	12	14	15	18	20	20	21	22	23	21	21	19	16	16	16	15	13	11	11	15.9	22.7
6-Jul-05	9	9	8	9	9	11	12	13	13	13	13	14	15	16	16	18	19	19	18	17	15	14	12	12	13.5	18.5
7-Jul-05	11	10	9	8	8	8	11	13	14	16	16	17	17	18	18	18	19	19	19	18	16	14	12	9	14.1	18.8
8-Jul-05	10	10	8	8	7	8	9	11	12	13	15	17	18	18	18	18	18	18	18	17	17	13	9	8	13.3	18.1
9-Jul-05	6	6	5	6	5	6	8	10	13	14	15	16	17	17	18	18	18	18	17	16	15	13	12	11	12.6	18.4
10-Jul-05	9	8	6	6	5	7	9	12	14	15	17	17	18	19	19	20	20	20	19	18	16	12	9	8	13.5	20.1
11-Jul-05	8	7	6	5	3	5	7	9	11	15	17	18	19	20	21	20	21	21	21	20	18	13	9	7	13.4	20.9
12-Jul-05	6	5	4	4	4	7	10	13	15	18	18	20	21	23	22	14	13	14	15	14	14	12	10	10	12.7	23.2
13-Jul-05	10	9	8	9	9	10	10	11	12	13	16	18	19	18	16	19	21	20	20	18	16	15	14	13	14.4	20.6
14-Jul-05	12	11	11	11	11	11	12	13	15	17	18	19	20	20	20	20	20	19	18	17	16	13	11	9	15.1	20.2
15-Jul-05	8	7	7	7	8	9	9	10	10	11	12	12	13	14	15	15	14	14	14	13	10	10	9	9	10.8	15.0
16-Jul-05	9	10	10	9	9	9	9	10	10	11	12	13	13	15	15	16	17	18	17	18	15	13	13	12	12.7	18.0
17-Jul-05	11	10	9	8	8	9	11	13	16	17	19	21	22	23	23	24	24	24	24	23	20	19	17	17	17.1	23.9
18-Jul-05	15	14	13	12	12	12	14	15	15	15	16	15	14	12	14	15	14	14	15	13	12	9	8	8	13.1	15.7
19-Jul-05	7	8	7	7	8	8	8	8	9	10	10	11	12	16	16	16	15	14	13	13	12	11	10	9	10.7	16.2
20-Jul-05	8	5	5	6	5	6	7	8	9	10	13	15	17	18	18	17	14	10	11	11	10	10	9	9	10.5	18.5
21-Jul-05	9	9	9	9	9	9	9	11	11	12	14	15	15	16	17	17	18	18	18	17	15	13	12	12	12.9	18.0
22-Jul-05	11	10	10	10	9	9	11	13	14	16	18	19	19	19	19	19	18	18	18	17	16	14	13	12	14.7	19.5
23-Jul-05	11	11	11	11	11	11	10	10	10	10	11	10	9	9	9	8	8	8	7	7	7	7	6	6	9.1	11.4
24-Jul-05	4	3	2	2	2	3	6	7	9	10	11	12	13	14	15	16	16	16	17	15	13	10	8	8	9.8	16.7
25-Jul-05	7	7	6	5	5	6	7	9	11	14	16	17	16	15	17	18	18	15	14	12	12	11	11	10	11.6	18.4
26-Jul-05	9	9	9	9	8	8	9	9	10	10	11	13	14	15	16	15	15	16	16	15	14	13	10	8	11.7	16.2
27-Jul-05	8	8	8	8	8	8	8	8	9	10	14	16	17	18	18	18	16	14	14	14	13	13	13	13	12.3	17.8
28-Jul-05	12	11	10	10	10	10	10	12	14	15	17	19	18	17	19	20	19	19	19	18	16	14	13	12	14.8	19.6
29-Jul-05	11	10	10	9	8	8	9	11	13	15	17	19	20	18	15	18	19	19	20	19	17	14	11	9	14.1	20.2
30-Jul-05	8	9	11	11	10	10	11	12	14	16	18	20	20	20	20	21	20	19	18	17	15	14	13	13	15.0	20.8
31-Jul-05	13	12	12	12	11	11	12	14	15	17	19	20	22	22	23	23	22	23	22	20	18	17	15	14	17.0	22.9
Hourly Avg	9.6	8.9	8.4	8.2	8.0	8.5	9.9	11.3	12.7	14.2	15.5	16.7	17.4	17.8	18.0	18.1	17.9	17.5	17.2	16.3	14.8	12.8	11.4	10.3		
Hourly Max	15.3	13.8	12.9	12.2	12.0	12.0	13.9	15.5	17.6	19.5	20.5	21.1	22.1	23.2	23.5	23.8	23.8	23.9	23.6	22.5	20.4	18.6	16.9	16.8		

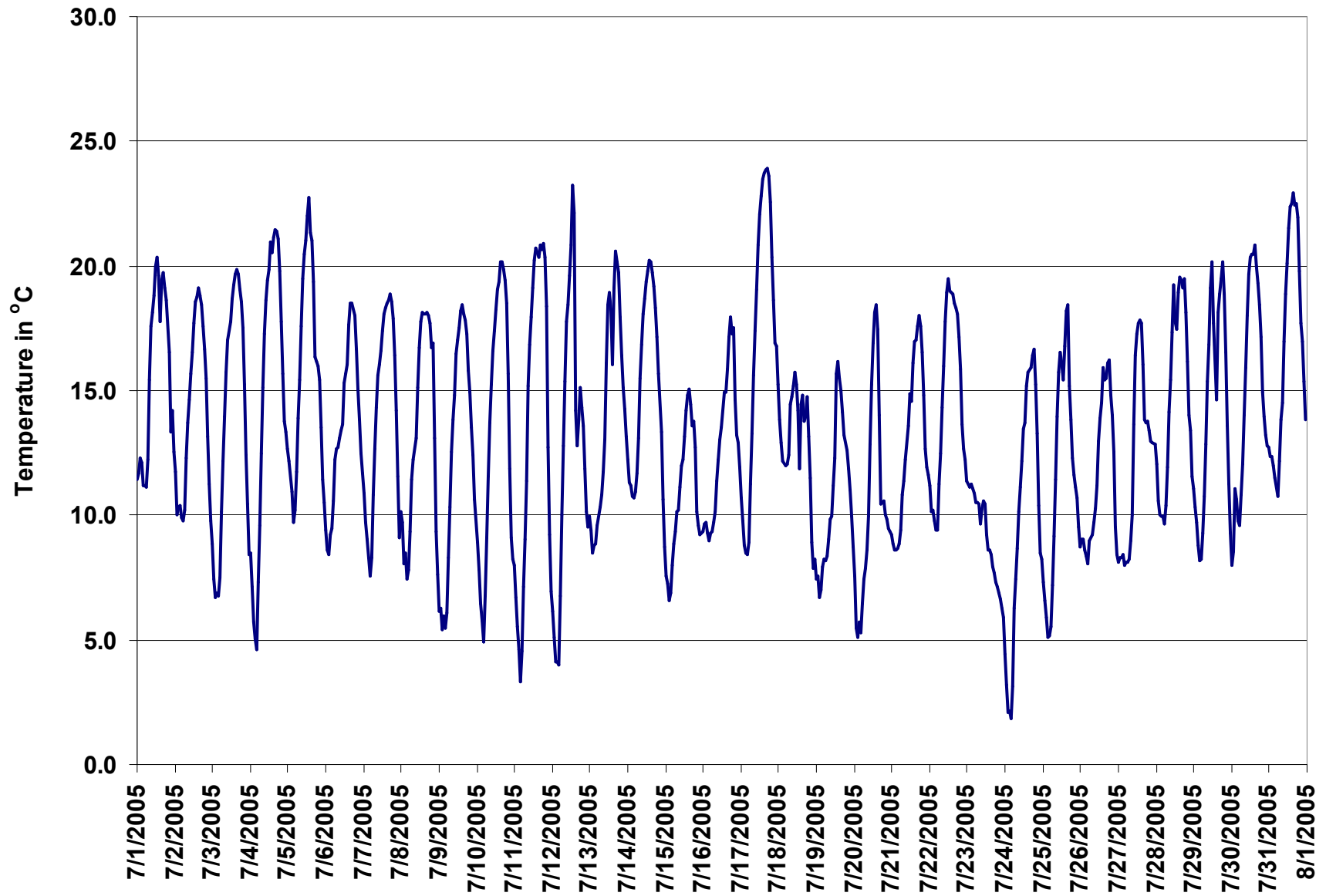


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

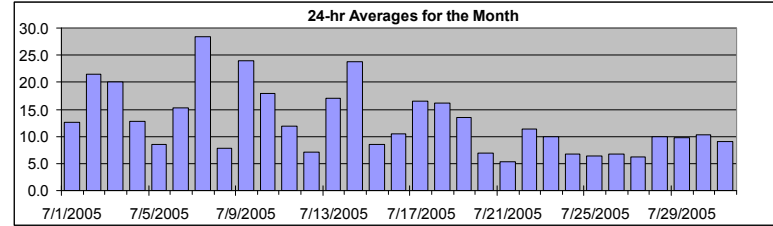
Wind Speed (WSs)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	44.4	km/hr	7-Jul	11:00 12:00
Maximum 24-hr Value:	28.5	km/hr	7-Jul	

Calm Time:	1 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	37.8	28.8	17.1	10.3	6.4	3.2	1.8	12.7 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	5	9	11	10	11	10	13	12	9	10	8	7	8	7	10	10	26	24	20	15	10	11	22	23	12.6	26.1	
2-Jul-05	23	15	21	17	19	21	19	23	28	28	23	22	20	20	22	28	28	26	27	22	16	15	16	15	21.4	28.4	
3-Jul-05	13	12	12	14	13	15	18	24	31	33	31	30	28	25	27	24	26	26	21	19	14	8	8	9	20.1	33.0	
4-Jul-05	10	9	5	5	8	5	5	6	8	14	21	22	23	24	22	22	22	18	19	12	10	8	4	6	12.9	24.3	
5-Jul-05	7	8	5	4	6	6	7	7	7	8	10	11	14	15	15	13	16	16	6	9	7	6	1	2	8.5	16.1	
6-Jul-05	4	2	2	3	3	2	4	5	4	8	12	15	18	22	23	23	30	31	31	28	24	26	23	25	15.3	31.3	
7-Jul-05	24	24	22	19	17	16	24	29	32	40	41	44	42	41	40	41	39	33	30	28	22	15	10	9	28.5	44.4	
8-Jul-05	15	10	9	7	8	4	6	6	9	7	4	5	3	6	6	5	6	5	2	2	6	22	20	11	7.8	22.5	
9-Jul-05	11	11	11	14	14	13	15	19	23	29	29	36	34	33	35	33	33	32	33	30	23	22	21	15	23.9	36.1	
10-Jul-05	13	15	12	12	11	16	15	23	26	26	26	23	22	23	21	21	23	21	17	18	14	10	11	13	17.9	26.4	
11-Jul-05	11	10	8	7	8	5	8	11	14	17	17	17	18	19	23	21	17	15	13	10	5	3	4	4	11.9	22.8	
12-Jul-05	5	4	5	5	9	8	8	6	6	5	5	3	5	9	16	17	11	4	4	13	6	2	4	10	7.1	17.0	
13-Jul-05	12	12	10	9	9	10	13	9	9	11	15	17	16	22	10	24	29	28	30	26	22	21	23	21	17.0	29.9	
14-Jul-05	22	22	22	22	21	22	22	25	33	33	31	30	29	30	29	27	28	30	26	19	10	6	2	2	23.8	33.5	
15-Jul-05	6	7	6	5	7	7	6	9	8	3	7	10	10	12	16	11	15	13	12	14	6	4	5	5	8.5	15.7	
16-Jul-05	5	7	12	12	9	12	15	15	13	12	12	13	11	13	11	9	10	10	8	7	8	8	10	8	10.4	14.7	
17-Jul-05	10	9	7	9	9	7	11	16	18	21	19	21	21	21	22	23	22	22	22	24	19	16	13	18	16.5	23.5	
18-Jul-05	17	23	18	17	15	18	15	17	19	12	9	11	15	17	15	20	21	23	21	17	11	10	12	13	16.1	23.5	
19-Jul-05	15	15	11	16	17	20	17	16	12	19	18	17	14	11	10	14	15	16	10	10	8	9	7	5	13.5	20.2	
20-Jul-05	5	5	5	5	3	1	3	2	2	1	5	7	9	10	11	9	18	18	14	7	7	3	5	7	6.9	18.5	
21-Jul-05	5	2	4	6	3	1	1	1	5	6	8	9	9	7	7	8	7	6	6	5	5	4	5	6	5.4	9.1	
22-Jul-05	6	6	6	7	7	8	8	9	10	10	12	14	14	16	16	13	13	13	14	12	12	21	15	9	11.3	21.0	
23-Jul-05	12	9	6	7	9	13	13	13	16	18	17	14	10	11	10	10	9	8	8	7	6	5	3	3	9.9	18.1	
24-Jul-05	4	6	5	5	7	4	7	7	6	6	6	7	7	6	5	6	4	6	9	11	12	11	10	10	6.8	12.5	
25-Jul-05	7	8	7	6	4	5	4	6	6	5	6	6	12	10	8	9	9	9	5	5	4	5	4	4	6.4	11.8	
26-Jul-05	4	4	3	5	4	3	4	5	8	5	4	7	9	7	8	12	12	15	14	8	9	3	5	5	6.8	14.8	
27-Jul-05	6	6	4	5	5	3	3	3	4	5	5	8	10	10	10	7	9	8	3	2	6	8	10	8	6.1	10.2	
28-Jul-05	7	5	6	7	10	6	7	9	11	9	12	14	11	18	18	19	14	10	10	9	6	6	6	6	9.9	18.6	
29-Jul-05	5	10	7	7	6	6	8	9	11	11	10	12	15	21	11	11	11	12	14	6	10	9	7	7	9.8	20.7	
30-Jul-05	6	7	11	9	11	11	9	8	14	17	18	19	20	16	9	10	10	9	7	8	3	5	2	4	10.2	20.3	
31-Jul-05	3	2	6	2	calm	3	3	8	11	8	12	16	21	23	21	17	14	9	5	2	5	4	4	6	9.0	22.6	
1-hr Average	9.6	9.5	9.1	9.0	9.4	9.1	10.0	11.6	13.4	14.1	14.7	15.7	16.1	17.0	16.3	16.7	17.7	16.6	15.0	13.2	10.6	10.1	9.5	9.3			
Hourly Max	23.8	24.1	22.4	21.9	21.3	21.6	23.6	29.0	33.5	39.9	40.9	44.4	42.1	41.0	39.9	40.9	39.1	33.2	33.4	29.8	23.6	26.4	23.4	25.3			

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

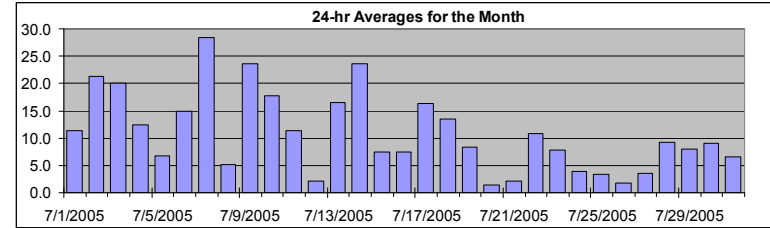
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	44.1	km/hr	7-Jul	11:00 12:00
Maximum 24-hr Value:	28.4	km/hr	7-Jul	



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
	37.6	28.6	16.9	10.0	6.0	2.7	1.4	84.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	4	9	11	10	11	10	13	12	9	9	8	6	6	2	9	7	26	24	20	15	10	11	22	23	11.3	25.9	
2-Jul-05	23	15	21	17	19	21	19	23	28	28	23	21	20	20	22	27	28	26	27	22	16	15	15	14	21.3	28.2	
3-Jul-05	13	12	12	14	13	15	18	24	31	33	31	30	27	25	27	24	25	26	21	19	14	8	8	9	20.0	32.8	
4-Jul-05	10	9	5	5	8	5	5	6	7	13	21	22	22	24	21	21	21	18	19	12	10	7	4	6	12.5	23.9	
5-Jul-05	7	8	4	4	6	5	7	7	7	10	11	13	14	15	13	15	16	5	9	7	6	calm	2	6.8	15.7		
6-Jul-05	3	2	2	3	2	2	4	5	3	6	12	15	17	22	23	22	30	31	31	28	23	26	23	25	14.9	31.0	
7-Jul-05	24	24	22	19	17	16	24	29	32	40	40	44	42	41	39	40	39	33	30	27	22	15	10	9	28.4	44.1	
8-Jul-05	15	10	9	7	8	4	5	1	8	7	2	4	3	3	6	5	6	3	1	2	6	21	19	11	5.1	21.1	
9-Jul-05	10	11	11	14	14	13	15	19	23	29	29	35	34	33	35	33	33	32	33	30	23	22	21	15	23.7	35.5	
10-Jul-05	13	15	12	12	11	16	15	23	26	26	26	22	21	22	20	20	22	21	17	18	13	10	11	13	17.8	26.1	
11-Jul-05	11	10	8	7	8	4	8	11	14	17	16	16	16	17	22	20	16	15	12	10	4	3	3	3	11.3	21.9	
12-Jul-05	5	4	5	5	8	7	8	6	6	3	5	2	4	9	15	13	11	1	4	13	3	1	3	9	2.1	15.1	
13-Jul-05	11	12	9	9	9	10	13	8	9	11	15	16	15	21	10	24	28	28	30	26	22	21	23	21	16.5	29.7	
14-Jul-05	22	22	22	22	21	22	22	25	33	33	30	30	28	30	28	29	27	28	29	26	19	9	5	2	23.6	33.4	
15-Jul-05	6	6	6	4	7	6	6	9	8	2	6	9	10	12	16	11	15	13	12	13	6	4	5	5	7.5	15.5	
16-Jul-05	5	7	12	12	9	12	14	15	13	12	11	12	11	13	11	9	10	9	8	7	8	7	10	8	7.4	14.7	
17-Jul-05	10	8	7	9	8	7	11	16	17	21	19	21	20	20	22	23	21	21	21	23	18	16	13	17	16.3	23.5	
18-Jul-05	16	23	18	17	15	18	15	17	19	11	9	10	15	16	15	20	21	23	21	16	11	10	11	13	13.4	23.2	
19-Jul-05	15	15	11	16	17	20	17	16	12	19	18	17	14	10	6	13	13	16	7	10	7	9	6	4	8.3	20.2	
20-Jul-05	3	5	5	4	3	1	3	1	2	1	5	6	9	10	11	9	11	18	10	6	6	2	4	6	1.4	17.9	
21-Jul-05	5	2	2	6	3	calm	calm	calm	4	6	7	8	9	5	5	7	7	5	6	5	5	4	5	5	2.2	8.6	
22-Jul-05	5	6	6	7	7	8	8	9	9	10	12	14	14	15	16	13	13	13	14	12	12	20	15	9	10.8	19.8	
23-Jul-05	12	9	6	7	8	11	12	13	16	18	17	13	10	11	10	10	9	8	8	6	5	5	3	3	7.8	17.9	
24-Jul-05	4	6	5	5	7	4	7	7	6	6	6	6	5	3	3	3	4	3	2	8	10	12	11	10	4.0	12.2	
25-Jul-05	6	7	7	6	4	5	4	5	6	5	4	5	11	9	8	8	8	7	2	4	3	4	4	4	3.4	11.3	
26-Jul-05	4	4	3	5	4	3	4	5	7	5	4	7	8	7	7	11	12	15	14	7	7	2	4	4	1.8	14.5	
27-Jul-05	5	5	4	5	5	3	3	2	3	5	5	8	10	10	10	6	9	8	2	2	6	8	9	8	3.6	9.7	
28-Jul-05	7	5	6	7	9	6	7	9	11	9	11	14	11	18	17	18	14	9	10	8	5	6	5	6	9.3	18.1	
29-Jul-05	5	10	6	6	5	6	8	9	10	10	10	12	14	19	6	10	11	10	14	6	10	9	7	7	7.9	19.3	
30-Jul-05	6	6	11	7	10	11	9	8	14	17	18	18	20	16	8	9	9	9	7	7	calm	5	1	4	9.0	19.8	
31-Jul-05	3	1	5	2	calm	2	2	8	11	8	11	16	21	22	21	17	14	8	4	2	4	calm	3	5	6.5	22.0	
1-hr Vector	7.6	7.7	7.5	7.3	7.6	7.8	8.1	9.1	10.0	10.7	10.9	11.3	11.2	11.4	10.4	11.1	13.0	13.2	11.9	10.1	7.9	7.0	7.3	7.1			
Hourly Max	23.7	24.0	22.4	21.9	21.3	21.5	23.6	28.8	33.4	39.5	40.3	44.1	41.8	40.6	39.5	40.4	38.8	33.0	33.2	29.7	23.5	26.3	23.3	25.2			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

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
	352.6	317.3	261.0	245.7	202.8	23.5	8.5	253 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	237	212	241	227	223	246	251	267	299	296	294	210	289	13	303	264	247	254	252	249	262	269	255	267	258	WSW
2-Jul-05	264	265	262	262	258	256	260	255	260	259	254	254	252	256	254	263	259	270	259	253	249	249	244	245	257	WSW
3-Jul-05	249	247	248	254	262	260	259	259	264	267	264	263	259	256	246	249	256	264	265	255	251	253	258	265	258	WSW
4-Jul-05	259	238	252	242	223	225	196	218	214	216	239	252	247	244	254	257	249	252	253	248	261	261	259	235	245	WSW
5-Jul-05	244	249	210	263	264	220	192	188	178	184	190	188	215	235	261	257	269	280	164	161	186	197	152	257	225	SW
6-Jul-05	292	281	240	279	337	352	267	252	213	253	263	249	227	235	250	254	249	247	245	251	246	245	243	243	248	WSW
7-Jul-05	245	241	240	245	245	237	238	243	250	253	244	251	252	249	243	250	251	252	243	241	244	240	240	263	247	WSW
8-Jul-05	250	267	260	211	194	255	236	97	185	209	315	84	76	234	239	294	299	311	114	127	157	250	258	203	238	WSW
9-Jul-05	213	234	219	237	243	249	235	233	239	243	248	249	251	248	249	252	253	243	241	253	250	239	240	237	244	WSW
10-Jul-05	239	244	246	244	247	238	247	249	253	257	264	262	251	247	251	259	246	250	252	250	262	254	262	255	252	WSW
11-Jul-05	261	255	239	225	250	217	201	217	211	239	243	240	241	236	227	236	246	236	239	253	237	264	329	280	238	WSW
12-Jul-05	257	252	234	241	194	207	196	188	180	160	131	239	357	32	66	136	81	3	203	224	321	8	241	260	190	S
13-Jul-05	266	268	243	225	246	254	249	232	223	214	236	268	271	277	267	262	268	266	255	255	250	249	250	250	255	WSW
14-Jul-05	252	262	262	264	265	265	263	261	260	265	272	262	258	253	258	260	258	270	266	274	272	256	243	310	263	W
15-Jul-05	249	238	259	263	262	238	236	247	198	193	172	184	175	178	210	204	194	199	207	242	227	227	262	250	216	SW
16-Jul-05	251	233	247	251	241	242	249	254	252	262	320	343	347	358	345	359	349	350	309	291	270	289	272	255	288	WNW
17-Jul-05	265	253	237	258	259	235	241	244	250	248	256	261	260	259	248	247	250	243	246	241	240	255	246	281	251	WSW
18-Jul-05	255	245	241	250	247	256	273	283	312	324	337	358	353	332	340	304	304	281	280	293	277	266	270	256	285	WNW
19-Jul-05	251	258	255	244	255	266	273	280	312	327	322	317	309	317	296	119	137	192	202	196	192	221	242	226	264	W
20-Jul-05	212	253	245	264	220	192	186	177	174	27	40	43	62	57	53	65	213	273	269	352	313	109	291	311	294	WNW
21-Jul-05	2	21	311	242	260	294	256	86	182	164	141	152	162	146	91	92	142	90	85	51	34	16	15	27	109	ESE
22-Jul-05	19	16	16	19	17	20	29	33	25	24	39	44	35	33	24	17	9	7	9	11	19	74	14	4	25	NNE
23-Jul-05	8	26	38	49	351	292	303	289	289	301	308	314	354	0	12	13	16	15	16	19	13	350	357	321	340	NNW
24-Jul-05	259	261	268	266	273	279	257	250	226	214	239	246	232	24	42	32	88	65	139	183	212	249	265	263	246	WSW
25-Jul-05	226	207	209	211	202	204	155	177	158	154	224	298	253	264	267	255	276	272	342	16	330	341	60	51	244	WSW
26-Jul-05	6	12	33	42	29	16	46	29	34	67	163	150	168	190	203	223	238	256	266	271	321	11	292	296	268	W
27-Jul-05	18	31	35	31	51	68	113	131	114	143	171	186	188	172	171	169	223	216	220	182	191	185	182	197	171	S
28-Jul-05	219	230	211	255	243	244	256	247	251	233	231	249	260	281	238	223	234	223	204	201	229	207	261	233	238	WSW
29-Jul-05	256	272	255	219	206	213	196	192	201	216	201	208	200	244	148	166	166	186	268	267	252	266	262	272	220	SW
30-Jul-05	281	214	221	245	252	256	234	235	239	248	254	250	261	266	264	264	217	238	232	219	150	139	17	37	246	WSW
31-Jul-05	27	341	290	328	330	230	239	188	196	209	243	244	255	252	251	255	260	277	324	351	353	184	86	49	251	WSW
Hourly Avg	258	253	249	250	251	251	248	247	248	253	256	255	255	259	255	252	251	257	254	253	255	248	258	260		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	51.7	35.4	14.4	9.1	6.0	3.1	2.4

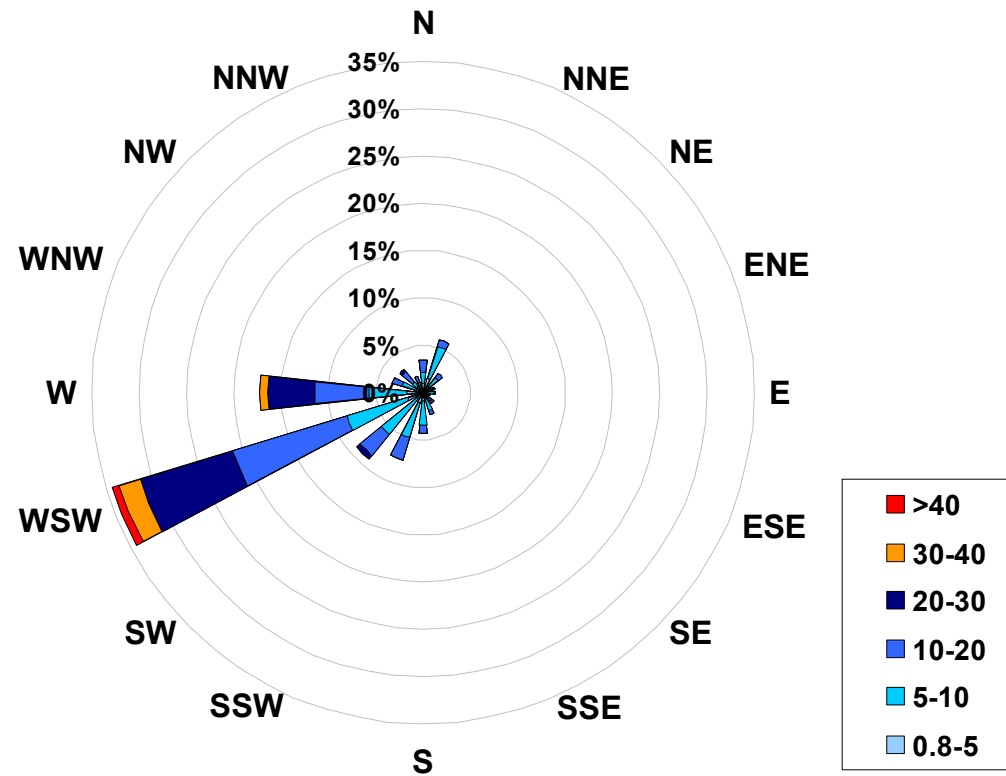
Status Flag Characters

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	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	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-05	22	13	4	4	5	7	5	6	12	15	19	30	49	54	19	29	8	8	5	5	3	6	3	3	54.4
2-Jul-05	2	3	3	4	3	3	4	5	6	9	12	13	15	15	9	9	9	7	8	5	4	3	2	4	15.2
3-Jul-05	2	2	3	2	3	2	3	5	5	5	6	7	11	11	8	11	10	6	6	5	3	5	7	7	11.3
4-Jul-05	6	15	29	14	8	10	9	14	16	13	10	10	8	8	10	10	12	12	8	6	7	8	19	7	29.4
5-Jul-05	6	15	16	11	7	18	7	9	16	20	16	14	12	16	8	7	6	8	21	7	7	11	58	29	57.9
6-Jul-05	18	14	24	18	33	35	9	12	32	34	6	7	10	7	6	9	7	8	5	5	4	4	4	3	34.7
7-Jul-05	3	3	3	3	3	4	4	6	5	7	8	7	7	8	7	8	6	7	6	4	4	3	4	5	8.2
8-Jul-05	3	12	6	12	7	9	12	29	11	11	50	23	36	40	26	20	16	35	62	19	6	16	8	17	61.8
9-Jul-05	6	5	6	3	2	4	4	4	7	8	8	9	9	8	8	9	9	8	5	4	5	3	3	3	8.7
10-Jul-05	3	4	3	3	4	3	4	5	7	8	8	12	14	14	13	15	12	11	8	5	3	4	3	3	14.8
11-Jul-05	3	9	7	9	8	14	5	7	7	13	16	19	14	18	15	12	15	11	11	7	10	6	29	10	29.2
12-Jul-05	9	7	6	7	5	5	8	11	17	28	21	32	21	22	14	23	12	44	45	5	11	35	41	5	44.7
13-Jul-05	4	3	5	6	3	5	5	6	7	9	12	12	10	9	6	5	7	7	6	4	4	3	3	3	11.9
14-Jul-05	3	3	3	2	2	2	3	3	4	6	6	8	10	9	9	10	7	7	7	5	4	4	9	21	20.9
15-Jul-05	14	17	9	20	5	7	4	5	14	48	18	12	11	12	8	13	9	6	6	10	9	9	5	7	48.5
16-Jul-05	5	4	2	3	3	4	4	5	5	7	14	11	9	12	10	13	15	14	16	11	6	4	7	7	16.5
17-Jul-05	5	14	8	4	4	6	5	4	7	7	7	11	11	12	11	8	9	7	6	4	3	7	5	6	13.8
18-Jul-05	8	4	5	5	7	6	8	6	9	12	16	24	9	10	10	9	8	7	5	9	4	3	6	3	24.0
19-Jul-05	5	4	6	3	4	3	4	3	9	6	6	8	14	17	35	14	13	8	45	4	12	5	34	25	45.2
20-Jul-05	42	33	12	15	20	21	13	25	31	48	15	19	14	18	14	13	25	6	21	36	16	40	19	13	48.1
21-Jul-05	7	27	17	11	26	41	49	57	21	19	20	28	21	45	34	22	24	24	20	7	5	5	7	11	57.4
22-Jul-05	9	5	7	6	6	6	6	7	9	11	10	11	11	11	9	10	8	6	6	7	7	11	10	11	11.4
23-Jul-05	5	6	9	13	19	12	6	6	6	7	8	13	11	8	11	9	9	11	12	10	11	9	22	7	21.6
24-Jul-05	9	5	11	9	7	13	10	12	18	23	28	31	37	30	51	70	32	51	39	6	8	4	4	11	69.6
25-Jul-05	16	12	7	8	4	9	16	9	21	26	52	38	16	12	14	18	21	52	43	44	19	12	12	22	52.2
26-Jul-05	10	14	37	10	13	18	11	13	13	16	21	14	17	22	28	14	11	9	7	4	12	21	19	9	37.2
27-Jul-05	18	8	15	10	11	28	20	31	29	26	26	25	16	16	12	11	8	9	33	17	8	6	5	6	33.1
28-Jul-05	13	8	6	11	7	11	8	7	9	13	13	14	10	9	10	13	8	9	9	7	26	10	19	14	26.2
29-Jul-05	12	3	11	14	12	10	6	6	8	16	15	16	14	15	21	12	10	27	6	8	6	7	11	8	27.2
30-Jul-05	11	18	19	17	7	6	12	8	6	8	11	10	10	12	31	12	16	14	8	6	40	10	24	8	40.3
31-Jul-05	10	37	6	14	53	25	44	12	6	15	18	13	12	12	8	10	11	10	21	32	41	48	27	16	52.7
Hourly Max	42	37	37	20	53	41	49	57	32	48	52	38	49	54	51	70	32	52	62	44	41	48	58	29	

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for July 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	107
5	to	10	254
10	to	20	233
20	to	30	120
30	to	40	24
	>	40	5
Total Non-Zero Values			743

PASZA – Beaverlodge Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: July 1, 2005 to August 1, 2005

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:	736
Number of 1-hr Fair Readings:	1
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Jul-05	13	11	10	9	6	5	6	8	11	14	16	16	16	16	15	15	16	16	16	16	16	17	15	15
2-Jul-05	16	15	15	15	13	10	10	11	12	12	13	13	12	12	11	10	10	11	10	10	11	11	10	8
3-Jul-05	7	9	10	11	10	10	11	12	13	13	14	14	15	16	16	18	20	22	21	20	17	16	15	13
4-Jul-05	11	10	11	11	9	7	8	9	10	12	14	13	13	12	12	12	12	11	11	10	10	10	10	10
5-Jul-05	9	9	9	9	7	7	4	5	7	7	10	13	15	14	14	12	12	14	14	14	14	12	12	14
6-Jul-05	13	13	8	7	5	7	7	10	7	12	10	11	14	16	15	16	14	14	14	13	13	13	13	12
7-Jul-05	12	12	11	11	9	9	11	12	12	13	13	14	15	15	15	15	15	15	15	16	15	13	12	11
8-Jul-05	11	10	10	10	7	8	6	6	9	10	16	19	18	18	19	19	19	17	18	17	20	20	17	16
9-Jul-05	14	13	14	12	12	9	10	10	11	12	14	14	14	15	14	14	14	14	14	14	13	12	12	11
10-Jul-05	10	10	9	9	7	7	9	10	11	12	13	13	13	13	13	13	13	13	12	11	10	9	10	10
11-Jul-05	10	10	9	8	7	8	8	9	12	13	10	12	13	13	13	13	13	13	12	11	9	10	11	7
12-Jul-05	7	7	7	7	8	6	7	7	10	11	14	17	16	14	13	15	17	16	14	13	13	12	12	11
13-Jul-05	11	8	8	7	6	5	8	12	13	13	13	13	13	14	15	15	14	14	14	14	14	14	13	13
14-Jul-05	14	15	14	14	13	11	13	13	14	15	14	14	14	1	1	1	17	16	15	15	14	13	12	13
15-Jul-05	14	14	12	7	6	8	9	11	11	15	21	23	24	24	24	23	21	18	17	14	15	14	14	15
16-Jul-05	17	17	16	13	11	10	11	10	11	12	12	13	13	14	17	16	17	14	15	14	12	13	13	13
17-Jul-05	10	9	8	7	7	7	8	6	7	A	A	A	A	A	A	A	14	14	14	14	14	14	20	22
18-Jul-05	17	14	11	12	12	11	12	15	15	19	19	21	20	20	19	19	18	20	19	18	16	14	15	13
19-Jul-05	12	13	14	15	15	17	16	16	15	14	13	14	15	15	17	17	17	16	17	17	15	13	14	12
20-Jul-05	15	8	9	12	12	10	8	8	9	15	18	19	21	21	18	17	17	17	18	16	16	14	13	10
21-Jul-05	9	10	8	5	4	5	5	6	7	10	18	18	21	22	23	22	23	23	25	23	19	17	15	17
22-Jul-05	17	17	17	15	15	12	7	10	11	19	22	25	26	24	22	22	20	20	18	16	15	16	13	13
23-Jul-05	10	7	7	7	7	7	6	6	6	7	7	8	9	10	10	11	12	12	12	11	11	10	11	11
24-Jul-05	10	9	6	5	6	8	7	8	9	10	11	13	13	13	13	14	14	15	16	13	11	10	9	8
25-Jul-05	7	7	6	5	6	4	9	5	8	11	14	15	16	16	16	15	14	14	14	12	13	12	12	9
26-Jul-05	9	8	7	8	6	3	5	6	7	8	9	11	10	12	15	16	15	14	14	12	11	9	8	7
27-Jul-05	7	8	6	4	3	4	6	4	6	8	10	11	12	13	14	13	12	12	10	10	6	5	4	5
28-Jul-05	5	6	7	8	5	5	4	6	8	10	12	15	21	23	20	19	18	18	16	14	14	14	14	11
29-Jul-05	12	10	10	8	7	7	6	6	9	13	14	15	15	16	17	18	18	17	16	16	15	14	14	15
30-Jul-05	10	8	8	8	9	10	9	8	9	11	13	15	15	14	14	13	13	14	11	11	9	11	7	6
31-Jul-05	7	7	8	7	8	9	8	7	8	10	13	14	14	14	14	14	14	14	13	9	8	10	9	8

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

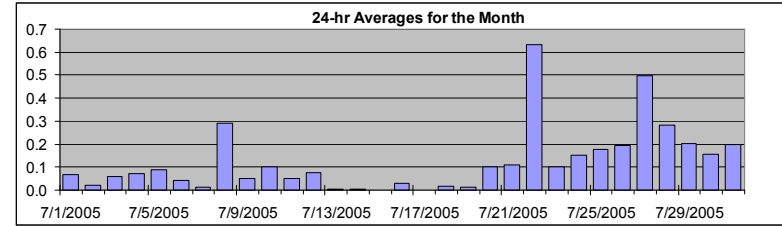
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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:	3.2 ppb 8-Jul 19:00 20:00
Maximum 24-hr Average:	0.6 ppb 22-Jul



AIC Time:	0 hrs	Operational Time:	733 hrs					
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	1.3	0.4	0.2	0.1	0.0	0.0	0.0	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
2-Jul-05	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	0.1
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
4-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
5-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Jul-05	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	0.2
7-Jul-05	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	0.1
8-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0.3	3.2
9-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
11-Jul-05	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
12-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
13-Jul-05	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	0.1
14-Jul-05	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	0.1
15-Jul-05	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	0.0
16-Jul-05	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	0.2
17-Jul-05	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	N	0.1
18-Jul-05	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	0.3
19-Jul-05	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	0.1
20-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
21-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
22-Jul-05	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	0.6	2.2
23-Jul-05	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	0.1	0.6
24-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
25-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
27-Jul-05	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	2	1	0	0.5	1.7
28-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0.3	0.9
29-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
30-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
31-Jul-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.3	0.3	0.4	0.4	0.3	0.2	0.4	0.5	0.5	1.4	1.5	1.6	1.3	1.1	0.7	0.7	0.8	2.2	1.1	3.2	0.9	1.7	0.8	0.5			

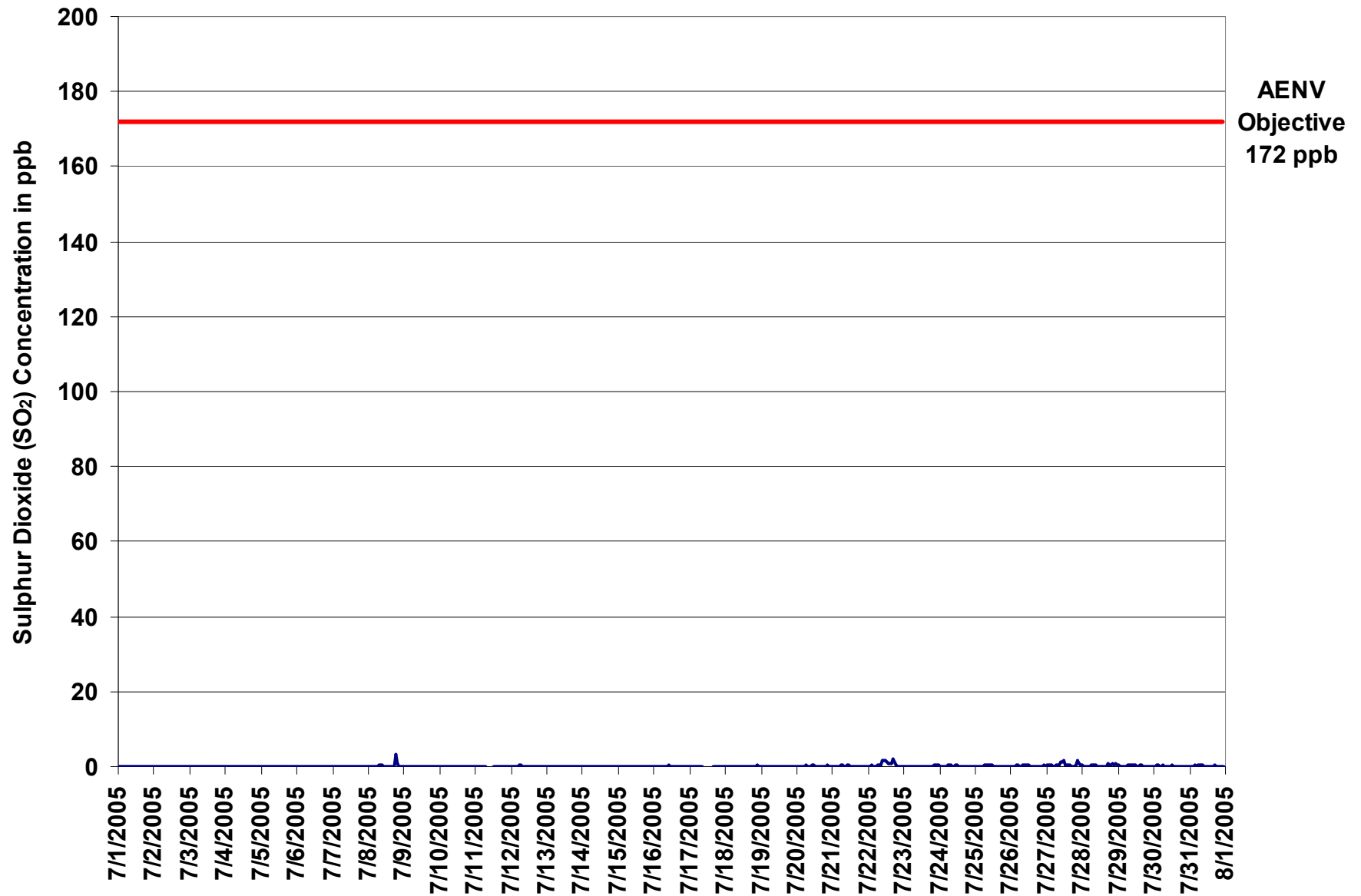


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

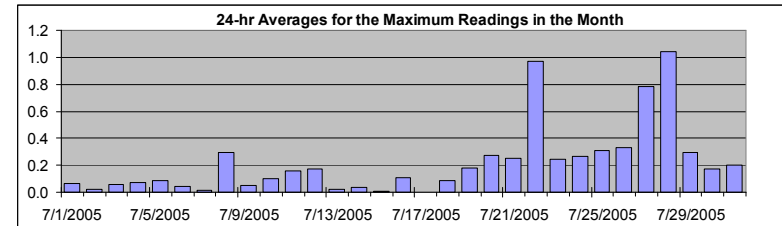
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	5.7	ppb	28-Jul	20:00 21:00
Maximum 24-hr Value:	1.0	ppb	28-Jul	

AIC Time:	0 hrs	Operational Time:	733 hrs					
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	2.3	0.8	0.2	0.1	0.0	0.0	0.0	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-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
2-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
3-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
4-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
5-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
7-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
8-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0.3	3.2
9-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
11-Jul-05	0	0	0	0	0	0	0	0	C	C	C	C	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.8
12-Jul-05	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
13-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
14-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
15-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
16-Jul-05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
17-Jul-05	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	N	0.1
18-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0.1	0.6
19-Jul-05	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.0
20-Jul-05	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
21-Jul-05	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.4
22-Jul-05	0	0	0	0	0	0	1	1	1	2	2	2	2	2	1	1	2	3	3	0	0	0	0	0	1.0	3.2
23-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	1.2
24-Jul-05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
25-Jul-05	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0.3	1.0
26-Jul-05	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
27-Jul-05	0	1	1	1	0	0	0	0	1	2	2	2	1	1	1	0	0	0	0	0	1	2	1	1	0.8	2.2
28-Jul-05	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	4	2	1	6	2	2	4	1.0	5.7	
29-Jul-05	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.3	0.6
30-Jul-05	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
31-Jul-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
Hourly Avg	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.4	0.2	0.2	0.2		
Hourly Max	0.4	0.5	0.5	0.6	1.3	0.6	0.9	1.4	0.6	1.9	3.0	2.0	1.6	1.6	0.9	0.8	2.3	3.6	2.6	3.2	5.7	2.2	2.2	3.6		

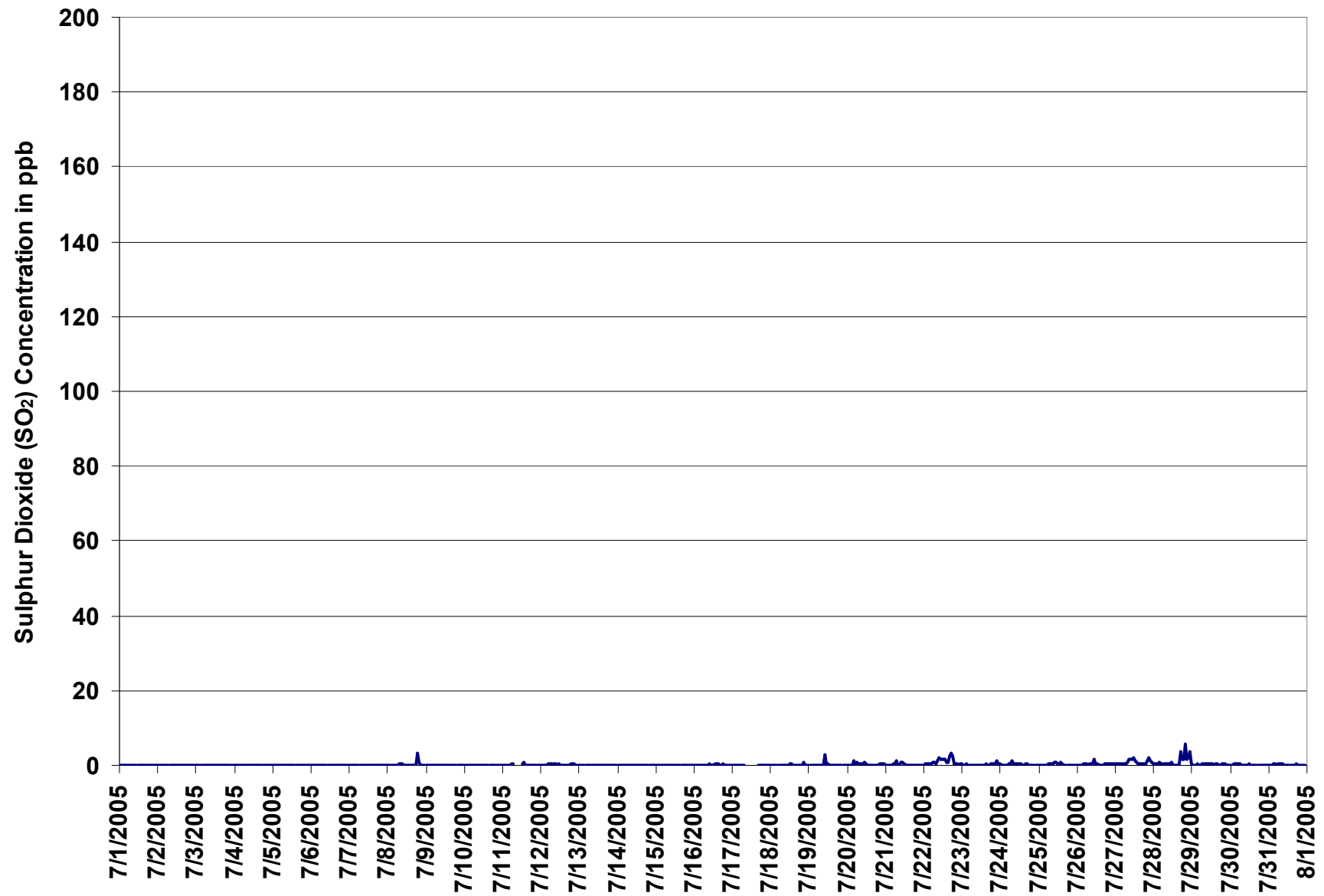
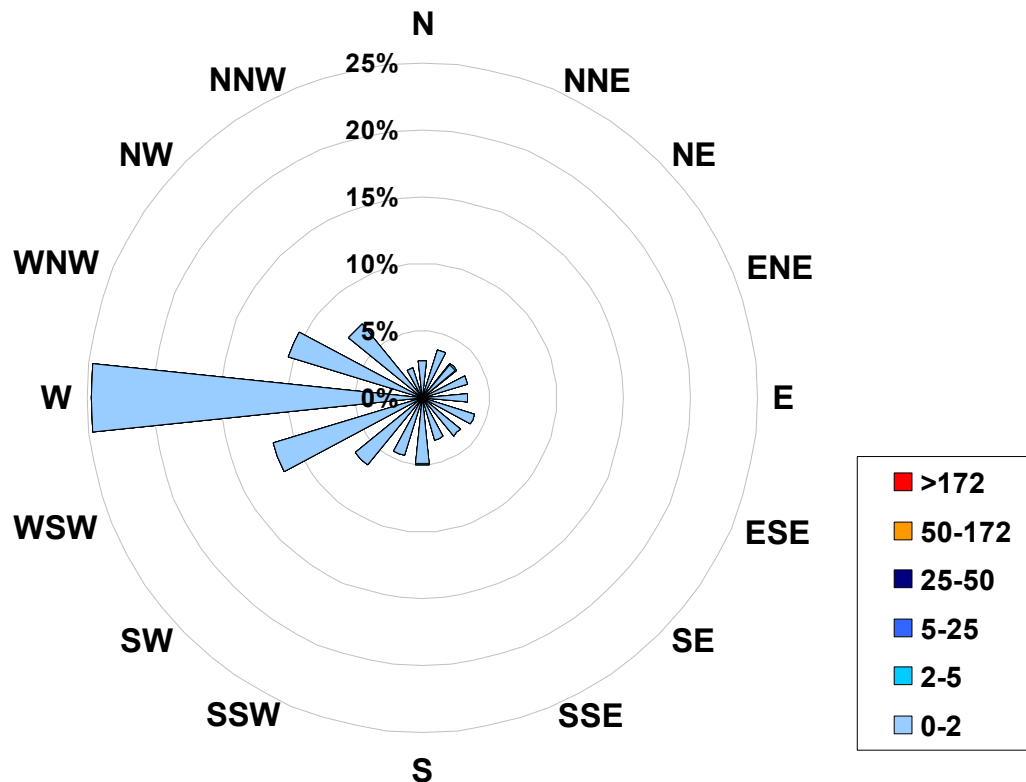


Figure 35. PASZA - Beaverlodge Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for July 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	731	
2	to 5	2	
5	to 25	0	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		733	

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

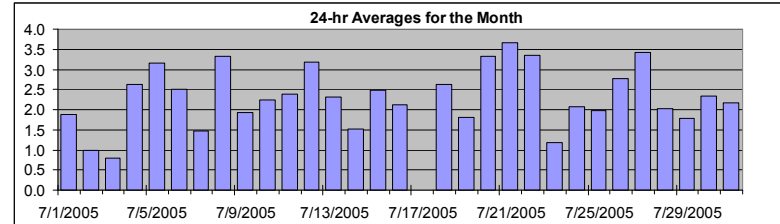
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

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:	9.5 ppb	13-Jul	5:00	6:00
Maximum 24-hr Average:	3.7 ppb	21-Jul		



AIC Time:	0 hrs	Operational Time:	737 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	7.0	5.0	3.0	2.0	1.1	0.8	0.0	2.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			23:00
1-Jul-05	0:00	3	3	3	4	4	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.9	5.0
2-Jul-05	1:00	2	1	1	1	2	3	3	2	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	2	1.0	3.0
3-Jul-05	2:00	3	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	0.8	3.0
4-Jul-05	3:00	3	4	3	3	4	7	6	5	2	1	1	1	1	1	1	1	1	1	1	2	2	4	4	4	2.6	7.0
5-Jul-05	4:00	5	2	2	2	3	5	8	7	4	3	2	2	1	1	1	2	2	1	1	2	3	8	6	3	3.2	8.0
6-Jul-05	5:00	3	2	7	5	7	5	5	4	5	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2.5	7.0
7-Jul-05	6:00	1	1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	1.5	4.0	
8-Jul-05	7:00	4	5	4	4	4	5	7	8	5	4	3	2	1	2	2	2	2	2	2	2	2	3	3	3.3	8.0	
9-Jul-05	8:00	3	3	2	3	3	5	4	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1.9	5.0
10-Jul-05	9:00	2	3	3	3	4	5	3	2	1	1	1	1	1	1	1	1	1	1	2	3	3	5	4	2	2.3	5.0
11-Jul-05	10:00	2	2	2	2	4	3	4	3	2	1	2	2	3	0	1	2	1	1	2	3	5	4	2	4	2.4	5.2
12-Jul-05	11:00	4	3	3	4	4	6	7	5	5	3	2	2	2	2	2	1	1	1	2	4	4	5	3	2	3.2	7.0
13-Jul-05	12:00	2	4	4	5	6	10	4	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2.3	9.5
14-Jul-05	13:00	1	2	2	1	2	3	3	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	5	2	1.5	4.9
15-Jul-05	14:00	2	2	2	5	6	5	3	2	2	2	1	1	1	1	1	2	2	2	3	4	3	3	2	2	2.5	6.0
16-Jul-05	15:00	2	2	2	2	4	3	2	2	2	2	2	2	2	1	1	2	1	3	2	2	3	3	2	3	2.1	4.3
17-Jul-05	16:00	4	3	3	3	3	3	2	2	0	C	C	C	C	C	C	C	2	2	2	3	3	3	3	3	N	3.5
18-Jul-05	17:00	3	3	3	2	2	3	4	2	2	2	2	2	2	2	2	3	4	3	2	2	3	6	3	3	2.6	5.9
19-Jul-05	18:00	3	2	2	1	1	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	4	2	4	1.8	3.7
20-Jul-05	19:00	2	5	3	2	3	4	6	4	3	2	2	3	2	2	4	4	4	2	2	2	3	4	6	6	3.3	6.4
21-Jul-05	20:00	4	3	5	6	6	6	6	5	3	3	2	2	2	2	2	3	3	3	4	4	4	4	5	3	3.7	6.4
22-Jul-05	21:00	3	3	3	2	3	6	9	6	6	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3.4	8.6
23-Jul-05	22:00	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.2	2.0
24-Jul-05	23:00	2	2	3	3	2	2	2	2	2	2	2	1	1	2	1	1	1	1	2	2	2	3	3	3	2.1	3.3
25-Jul-05	0:00	3	3	3	3	2	3	3	4	2	1	1	1	1	1	3	1	1	2	2	2	2	2	2	2	2.0	3.6
26-Jul-05	1:00	2	2	3	3	4	5	4	4	4	4	3	2	2	2	1	1	1	1	2	3	3	3	4	4	2.8	4.8
27-Jul-05	2:00	3	3	5	6	6	5	4	3	3	2	2	2	2	2	2	2	1	2	2	3	8	6	6	4	3.4	8.2
28-Jul-05	3:00	3	3	2	2	3	3	4	3	2	2	1	1	1	1	1	1	1	1	2	2	3	3	2	3	2.0	4.0
29-Jul-05	4:00	2	2	2	3	3	3	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1.8	4.0
30-Jul-05	5:00	2	4	4	4	3	3	3	3	2	1	1	1	1	1	1	2	1	1	2	2	3	2	3	7	2.3	7.0
31-Jul-05	6:00	5	4	4	3	3	3	3	3	2	2	1	1	0	0	0	1	1	1	1	4	4	2	2	2	2.2	5.0
Hourly Avg		2.7	2.7	2.8	2.9	3.4	3.9	4.0	3.0	2.2	1.7	1.6	1.3	1.3	1.2	1.3	1.5	1.5	1.5	1.6	2.1	2.6	3.1	2.8	2.8		
Hourly Max		5.0	5.0	7.0	6.1	7.0	9.5	8.6	8.0	5.8	4.0	3.4	3.2	3.1	2.8	4.2	4.4	3.8	3.2	3.8	4.1	8.2	8.0	6.4	7.0		

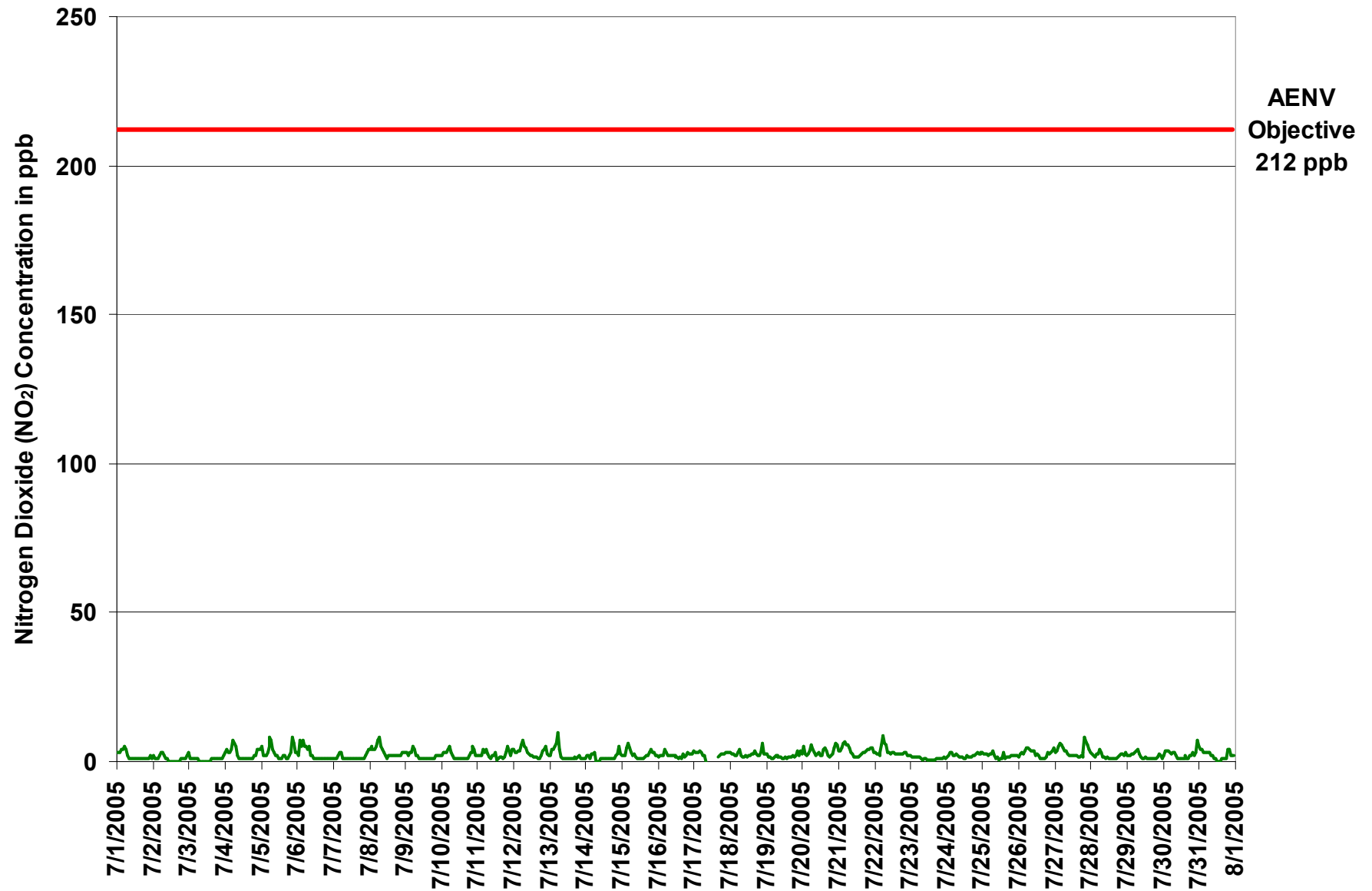


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

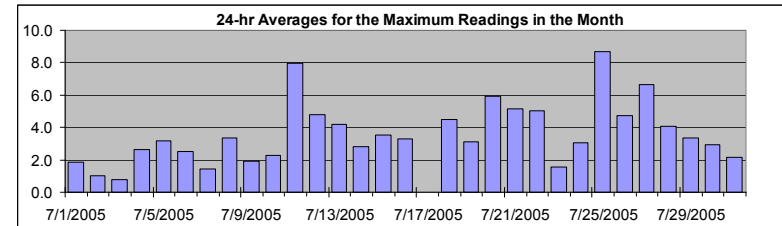
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	129.2	ppb	25-Jul	14:00 15:00
Maximum 24-hr Value:	8.7	ppb	25-Jul	

AIC Time:	0 hrs		Operational Time:	737 hrs				
Calibration Time:	7 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	12.9	8.3	4.0	2.8	1.8	1.0	0.0	3.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-05	3	3	3	4	4	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.9	5.0
2-Jul-05	2	1	1	1	2	3	3	2	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	2	1.0	3.0
3-Jul-05	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	0.8	3.0
4-Jul-05	3	4	3	3	4	7	6	5	2	1	1	1	1	1	1	1	1	1	1	2	2	4	4	4	2.6	7.0
5-Jul-05	5	2	2	2	3	5	8	7	4	3	2	2	1	1	1	2	2	1	1	2	3	8	6	3	3.2	8.0
6-Jul-05	3	2	7	5	7	5	5	4	5	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2.5	7.0
7-Jul-05	1	1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	1.5	4.0
8-Jul-05	4	5	4	4	4	5	7	8	5	4	3	2	1	2	2	2	2	2	2	2	2	2	3	3	3.3	8.0
9-Jul-05	3	3	2	3	3	5	4	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1.9	5.0
10-Jul-05	2	3	3	3	4	5	3	2	1	1	1	1	1	1	1	1	1	1	2	3	3	5	4	2	2.3	5.0
11-Jul-05	2	2	2	2	4	3	7	4	2	2	6	18	94	2	2	3	3	2	3	6	8	6	3	5	8.0	94.2
12-Jul-05	5	5	3	4	5	10	9	7	6	8	3	2	2	2	3	2	2	2	4	7	8	10	4	3	4.8	10.0
13-Jul-05	11	10	4	6	7	13	7	2	2	2	2	2	2	2	2	2	2	2	7	3	4	3	2	2	4.2	13.0
14-Jul-05	2	3	2	2	5	3	3	0	0	0	2	3	1	4	2	3	3	2	2	2	4	5	10	4	2.8	10.0
15-Jul-05	4	5	2	6	9	8	5	3	3	3	2	2	2	2	2	3	4	2	3	4	3	3	2	2	3.5	9.0
16-Jul-05	2	2	2	3	8	6	3	3	3	3	3	2	2	2	2	2	2	6	3	3	4	4	4	5	3.3	8.0
17-Jul-05	6	3	5	3	6	5	3	2	0	C	C	C	C	C	C	C	2	3	3	4	4	5	4	4	N	5.7
18-Jul-05	5	5	4	3	3	5	6	5	3	3	4	4	4	3	4	4	8	7	4	3	6	13	5	5	4.5	12.5
19-Jul-05	5	3	2	2	3	4	3	3	3	3	2	2	2	2	2	3	4	3	4	3	4	6	6	6	3.1	5.6
20-Jul-05	7	9	4	3	3	7	11	8	4	3	3	5	3	3	10	9	7	4	2	3	5	11	14	9	5.9	14.3
21-Jul-05	5	5	7	8	8	9	9	13	4	4	3	2	2	3	3	3	4	4	5	5	7	5	6	6	5.1	13.0
22-Jul-05	4	4	4	4	4	13	12	11	8	5	7	3	5	4	3	4	4	4	3	4	5	4	3	3	5.0	13.0
23-Jul-05	3	2	2	3	2	2	2	2	1	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	1.6	2.8
24-Jul-05	3	4	4	4	4	3	4	4	2	2	2	2	2	3	2	2	2	3	2	4	4	5	4	6	3.0	5.7
25-Jul-05	4	4	3	3	3	5	4	5	3	2	5	1	3	3	129	2	3	3	4	4	9	5	3	3	8.7	129.2
26-Jul-05	3	4	5	4	11	9	7	6	5	5	5	3	3	4	3	2	2	2	2	8	5	4	7	9	4.7	10.7
27-Jul-05	5	5	8	9	9	6	5	5	3	3	27	13	2	2	3	5	2	5	4	7	10	9	8	8	6.6	26.7
28-Jul-05	4	3	6	3	4	5	6	6	3	2	4	5	3	3	3	2	3	2	3	5	8	4	4	11	4.1	11.1
29-Jul-05	5	3	3	3	3	5	8	6	9	2	2	2	3	1	1	2	2	2	2	2	4	6	5	3	3.4	9.1
30-Jul-05	6	5	5	6	5	4	6	3	2	1	1	1	1	1	1	2	1	1	2	2	3	2	3	7	2.9	7.0
31-Jul-05	5	4	4	3	3	3	3	3	2	2	1	1	0	0	0	1	1	1	1	4	4	2	2	2	2.2	5.0
Hourly Avg	3.9	3.6	3.4	3.5	4.5	5.5	5.3	4.2	2.8	2.3	3.2	2.7	4.8	1.8	6.2	2.2	2.3	2.2	2.4	3.1	4.0	4.5	4.1	4.1		
Hourly Max	10.6	9.6	8.2	8.7	10.7	13.0	12.2	13.0	9.1	7.9	26.7	18.1	94.2	3.9	129.2	8.6	7.6	6.6	6.7	7.8	9.8	12.5	14.3	11.1		

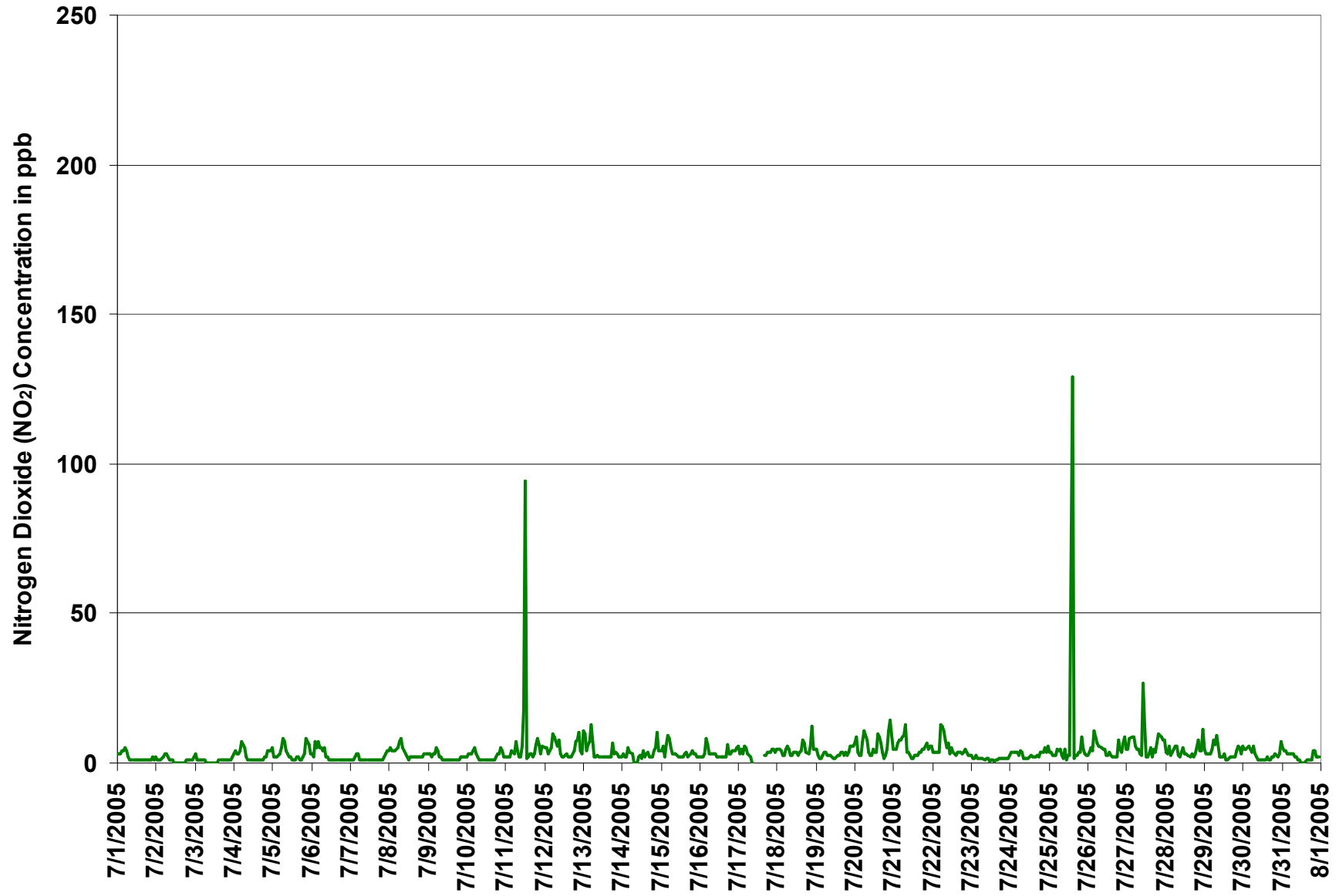
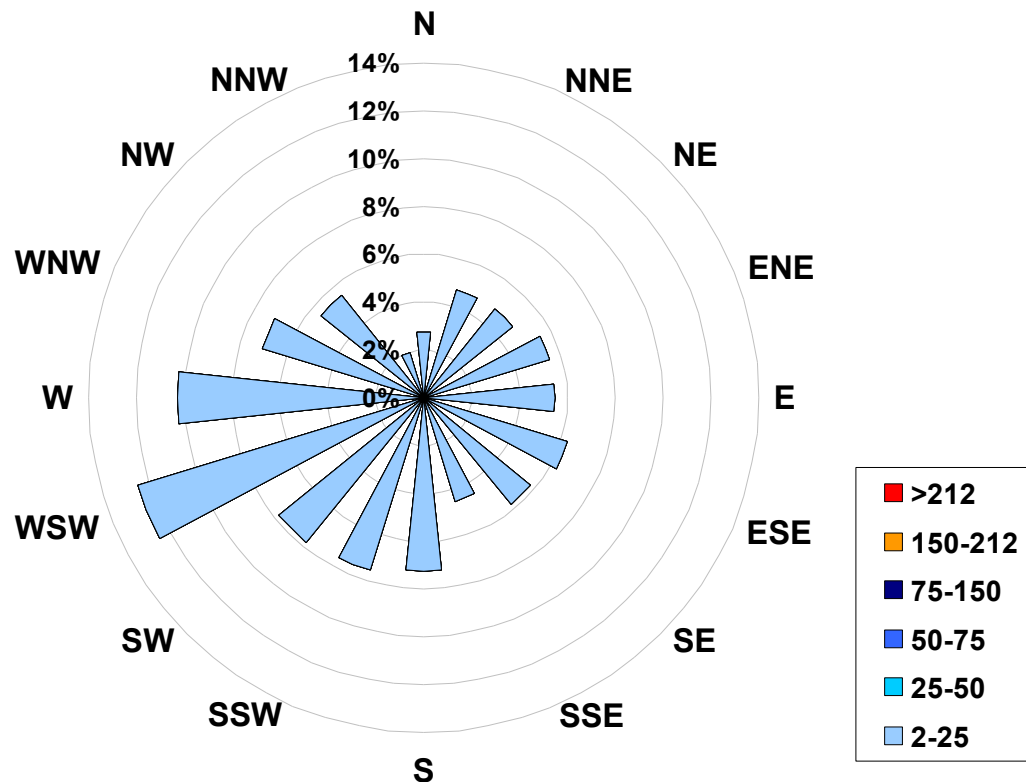


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for July 2005



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	737	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		737	

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

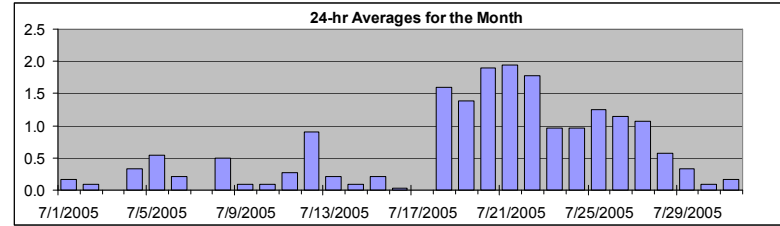
Nitric Oxide (NO)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	9.2	ppb	22-Jul	6:00 7:00
Maximum 24-hr Average:	1.9	ppb	21-Jul	

AIC Time:	0 hrs	Operational Time:	737 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	5.3	2.2	1.0	0.0	0.0	0.0	0.0	0.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Jul-05	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
2-Jul-05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
3-Jul-05	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	0.0	0.0
4-Jul-05	0	0	0	0	0	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.0
5-Jul-05	0	0	0	0	0	0	3	4	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0
6-Jul-05	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
7-Jul-05	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	0.0	0.0
8-Jul-05	0	0	0	0	0	0	2	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.0
9-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
10-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
11-Jul-05	0	0	0	0	0	0	2	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.4
12-Jul-05	0	0	0	0	0	6	8	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	7.5
13-Jul-05	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.9
14-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
15-Jul-05	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
16-Jul-05	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	0.0	0.5
17-Jul-05	0	0	0	0	1	2	1	1	0	C	C	C	C	C	C	C	C	2	2	2	2	2	2	2	2	2	N	1.9
18-Jul-05	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1.6	2.5
19-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	1.5
20-Jul-05	1	1	1	1	1	2	8	5	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	8.1
21-Jul-05	1	1	1	2	1	3	7	7	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	7.4
22-Jul-05	1	1	1	1	1	2	9	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	9.2
23-Jul-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
24-Jul-05	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
25-Jul-05	1	1	1	1	1	1	4	7	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.3	6.7
26-Jul-05	0	0	0	0	1	4	2	2	3	3	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1.1	4.3
27-Jul-05	0	0	1	1	1	2	3	5	2	1	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1.1	4.9
28-Jul-05	0	0	0	0	0	0	3	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.0
29-Jul-05	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.4
30-Jul-05	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
31-Jul-05	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
Hourly Avg	0.3	0.3	0.4	0.4	0.4	1.2	2.3	2.1	1.4	0.8	0.7	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4			
Hourly Max	1.6	1.6	1.6	1.9	1.6	5.5	9.2	7.4	4.9	2.7	2.5	2.2	1.5	2.4	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6			

Station: Beaverlodge
 Station Owner: PASZA

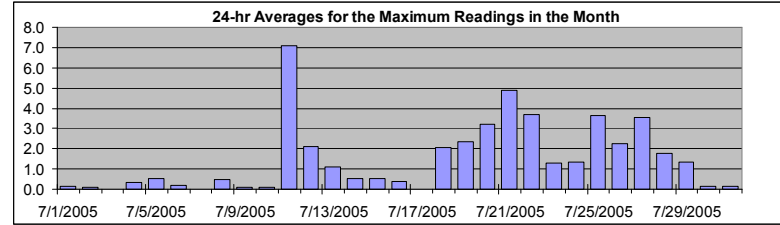
HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	141.2	ppb	11-Jul	13:00 14:00
Maximum 24-hr Value:	7.1	ppb	11-Jul	



AIC Time:	0 hrs	Operational Time:	737 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	15.5	5.0	1.4	0.4	0.0	0.0	0.0	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-Jul-05	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
2-Jul-05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
3-Jul-05	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	0.0
4-Jul-05	0	0	0	0	0	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.0
5-Jul-05	0	0	0	0	0	0	3	4	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0
6-Jul-05	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
7-Jul-05	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	0.0
8-Jul-05	0	0	0	0	0	0	2	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.0
9-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
10-Jul-05	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
11-Jul-05	0	0	0	0	0	0	5	2	1	1	4	10	3	141	0	1	0	0	0	1	0	0	0	1	7.1	141.2
12-Jul-05	0	0	0	0	2	15	12	8	4	2	1	0	2	1	1	0	0	0	0	1	0	0	0	0	2.1	15.2
13-Jul-05	3	2	0	0	1	5	3	1	1	1	1	0	1	0	0	1	1	1	4	0	0	0	0	0	1.1	5.1
14-Jul-05	0	0	0	0	1	1	1	0	0	0	1	2	1	2	1	1	1	0	0	0	0	0	0	0	0.5	2.0
15-Jul-05	0	0	0	1	1	3	2	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.9
16-Jul-05	0	0	0	0	1	1	0	1	0	0	1	0	1	1	0	0	0	2	1	0	0	0	0	0	0.4	2.0
17-Jul-05	0	0	1	0	3	6	2	1	0	C	C	C	C	C	C	C	2	3	3	3	3	2	2	2	N	5.5
18-Jul-05	2	2	2	2	2	3	3	4	3	3	3	3	3	3	2	3	2	2	2	2	2	1	1	1	2.0	3.5
19-Jul-05	1	1	1	1	1	1	1	1	2	2	9	2	2	2	8	2	2	2	1	2	1	1	1	1	2.3	8.7
20-Jul-05	1	2	1	2	1	2	23	9	4	3	2	3	2	1	2	4	2	2	1	1	1	1	2	1	3.2	23.0
21-Jul-05	1	1	1	4	2	9	16	55	4	3	3	1	1	2	1	1	2	2	1	1	1	1	1	1	4.9	54.5
22-Jul-05	1	1	1	1	1	12	25	16	8	3	5	1	2	1	1	1	1	1	1	1	1	1	1	1	3.7	25.0
23-Jul-05	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1.3	1.9
24-Jul-05	1	1	1	1	2	1	4	4	3	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1.3	3.8
25-Jul-05	1	1	1	1	1	4	16	12	4	2	13	14	1	3	8	2	2	2	2	1	1	1	1	1	3.7	15.6
26-Jul-05	1	1	1	1	7	13	4	2	4	4	4	2	1	1	1	0	0	0	0	0	0	0	0	1	2.3	13.1
27-Jul-05	0	0	4	3	2	5	5	9	3	2	21	10	1	1	1	4	0	1	1	1	1	0	1	1	3.5	21.4
28-Jul-05	0	0	0	0	0	1	4	7	5	2	4	1	1	1	1	0	1	0	1	1	0	0	0	7	1.8	7.3
29-Jul-05	1	0	0	1	0	2	13	3	5	1	1	0	1	0	0	1	1	0	0	0	0	0	1	0	1.4	12.8
30-Jul-05	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
31-Jul-05	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
Hourly Avg	0.5	0.5	0.5	0.6	1.0	2.9	5.0	5.0	2.1	1.3	2.7	1.8	0.9	5.5	1.1	0.8	0.6	0.7	0.7	0.6	0.4	0.4	0.4	0.7		
Hourly Max	3.0	2.3	4.4	4.2	7.5	15.2	25.0	54.5	8.0	4.4	21.4	14.4	3.0	141.2	8.4	4.3	2.4	2.7	4.1	2.7	2.7	1.7	2.2	7.3		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

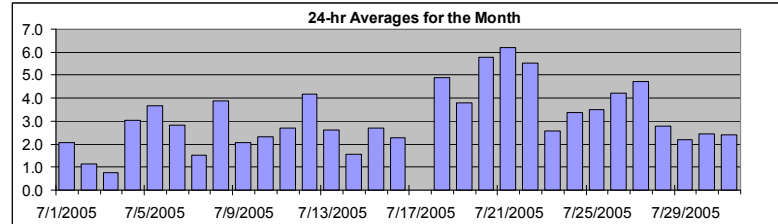
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Maximum 1-hr Average:	18.2	ppb	22-Jul	6:00 7:00
Maximum 24-hr Average:	6.2	ppb	21-Jul	

AIC Time:	0 hrs	Operational Time:	737 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	11.9	7.1	4.0	2.9	1.5	1.0	0.0	3.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	23:00
1-Jul-05	3	3	3	4	4	6	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2.1	6.0	
2-Jul-05	2	1	1	1	2	4	4	2	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1	2	1.1	4.0	
3-Jul-05	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	2	0.8	3.0		
4-Jul-05	3	4	3	3	5	9	8	8	3	2	1	1	1	1	1	1	1	1	1	1	2	2	4	4	4	3.0	9.0	
5-Jul-05	5	2	2	2	3	5	12	10	5	4	3	2	2	1	1	2	2	2	2	1	2	3	8	6	3	3.7	12.0	
6-Jul-05	3	2	8	5	7	6	6	5	7	2	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	2.8	8.0	
7-Jul-05	1	1	1	2	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	1.5	4.0	
8-Jul-05	4	5	4	4	4	5	9	13	8	5	5	2	1	2	2	2	2	2	2	2	2	2	3	3	3	3.9	13.0	
9-Jul-05	3	3	2	3	3	6	4	3	2	2	1	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2.1	6.0	
10-Jul-05	2	3	3	3	4	6	4	2	1	1	1	1	1	1	1	1	1	1	1	2	3	3	5	4	2	2.3	6.0	
11-Jul-05	2	2	2	2	4	4	6	4	2	1	3	3	3	1	1	2	2	1	2	3	5	4	2	4	4	2.7	5.6	
12-Jul-05	4	3	3	4	4	11	15	9	7	4	3	2	2	2	2	2	2	1	1	2	4	4	5	3	2	4.2	14.7	
13-Jul-05	2	4	4	5	6	12	6	2	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	2.6	12.5	
14-Jul-05	1	2	2	1	2	3	3	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	5	2	1.6	5.0	
15-Jul-05	2	2	2	5	7	5	4	3	4	3	1	1	1	1	1	1	2	2	2	3	4	3	3	2	2	2.7	6.7	
16-Jul-05	2	2	2	2	5	4	2	2	2	2	2	2	2	2	2	1	2	1	3	2	2	3	3	2	3	2.3	4.6	
17-Jul-05	4	3	3	3	4	5	3	3	0	C	C	C	C	C	C	C	C	4	5	5	5	5	6	5	5	N	5.9	
18-Jul-05	6	5	5	4	4	5	7	5	4	4	4	4	4	4	4	5	5	6	5	4	4	4	5	8	5	5	4.9	8.0
19-Jul-05	4	4	4	3	3	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	5	4	6	3.8	5.5	
20-Jul-05	4	7	5	4	4	6	15	9	7	5	5	6	4	4	4	6	6	6	4	3	4	4	6	8	7	5.8	14.5	
21-Jul-05	5	5	6	8	9	9	14	13	7	6	4	3	3	3	3	4	4	5	5	6	6	6	6	6	5	6.2	13.7	
22-Jul-05	5	4	4	4	4	8	18	12	11	5	5	4	5	4	4	4	4	4	4	4	4	4	5	3	3	5.5	18.2	
23-Jul-05	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2.6	3.3	
24-Jul-05	3	3	4	4	3	3	5	4	4	3	3	3	2	3	2	3	2	3	3	3	3	4	4	4	4	3.4	4.5	
25-Jul-05	4	3	4	4	3	4	7	10	5	3	4	2	2	2	2	4	2	2	3	3	3	3	3	3	3	3.5	10.5	
26-Jul-05	3	3	4	4	5	9	6	6	7	7	6	4	4	3	2	2	2	2	2	2	4	3	4	4	5	4.2	9.4	
27-Jul-05	3	4	6	7	7	7	7	9	5	3	4	3	2	3	3	3	2	3	2	3	2	4	9	7	6	4	4.7	9.0
28-Jul-05	3	3	3	2	3	3	7	6	3	3	2	2	2	2	2	2	1	1	1	2	3	3	3	2	3	2.8	6.9	
29-Jul-05	2	2	2	3	3	4	6	6	4	2	2	1	2	1	1	1	1	1	1	1	1	1	3	2	1	2.2	6.0	
30-Jul-05	2	4	4	4	3	3	4	4	2	2	1	1	1	1	1	1	2	1	1	2	2	3	2	3	7	2.5	7.0	
31-Jul-05	5	4	4	3	3	3	4	5	3	4	1	1	0	0	0	0	0	1	1	2	4	4	2	2	2	2.4	5.0	
Hourly Avg	3.2	3.2	3.3	3.4	4.1	5.4	6.5	5.4	3.7	2.8	2.5	2.1	1.9	1.8	1.9	2.0	2.0	2.1	2.3	2.7	3.2	3.6	3.3	3.3				
Hourly Max	5.5	6.8	8.0	8.5	8.5	12.5	18.2	13.0	11.1	6.7	6.1	5.9	4.7	4.4	6.2	6.4	5.9	5.3	6.0	6.2	9.0	8.0	8.1	7.3				

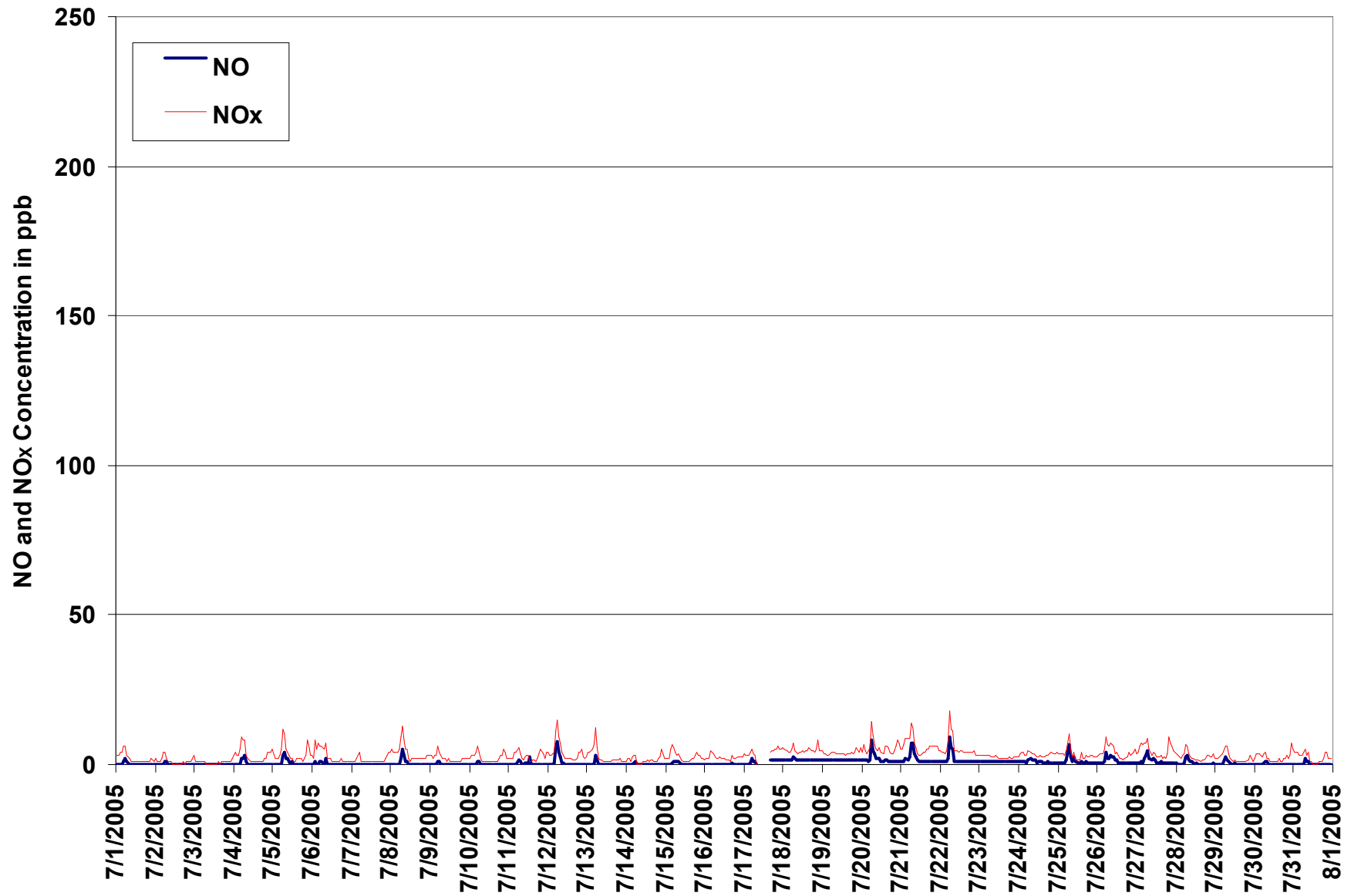


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

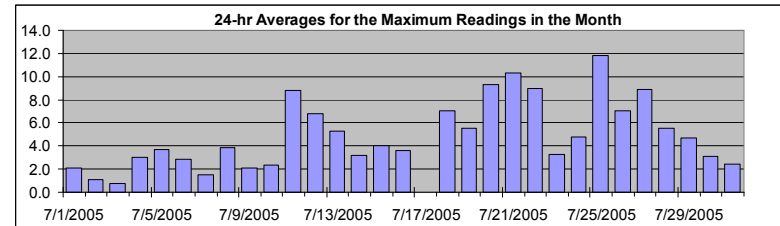
HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	131.1	ppb	25-Jul	14:00 15:00
Maximum 24-hr Value:	11.8	ppb	25-Jul	



AIC Time:	0 hrs	Operational Time:	737 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	25.0	12.1	5.7	3.8	2.0	1.0	0.0	4.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-05	3	3	3	4	4	6	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2.1	6.0	
2-Jul-05	2	1	1	1	2	4	4	2	1	1	1	0	0	0	0	0	0	1	0	1	0	1	1	1	2	1.1	4.0
3-Jul-05	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	2	0.8	3.0	
4-Jul-05	3	4	3	3	5	9	8	8	3	2	1	1	1	1	1	1	1	1	1	2	2	4	4	4	3.0	9.0	
5-Jul-05	5	2	2	2	3	5	12	10	5	4	3	2	2	1	1	2	2	2	1	2	3	8	6	3	3.7	12.0	
6-Jul-05	3	2	8	5	7	6	6	5	7	2	2	2	1	1	1	1	1	1	2	1	1	1	1	1	2.8	8.0	
7-Jul-05	1	1	1	2	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	1.5	4.0	
8-Jul-05	4	5	4	4	4	5	9	13	8	5	5	2	1	2	2	2	2	2	2	2	2	2	3	3	3.9	13.0	
9-Jul-05	3	3	2	3	3	6	4	3	2	2	1	2	1	1	1	1	1	1	1	1	2	2	2	2	2.1	6.0	
10-Jul-05	2	3	3	3	4	6	4	2	1	1	1	1	1	1	1	1	1	1	2	3	3	5	4	2	2.3	6.0	
11-Jul-05	2	2	2	2	4	4	12	6	3	2	7	20	97	4	2	4	3	2	3	6	8	6	3	6	8.8	97.4	
12-Jul-05	5	5	3	5	6	25	20	16	9	10	4	2	3	3	4	3	2	2	4	7	8	10	3	3	6.8	25.1	
13-Jul-05	14	12	4	6	8	18	10	2	3	3	3	2	2	2	2	3	3	3	11	3	4	3	3	2	5.3	18.2	
14-Jul-05	2	3	2	2	5	4	3	0	0	0	3	4	2	6	2	4	5	2	2	2	4	5	10	4	3.2	10.1	
15-Jul-05	4	6	2	7	10	11	6	4	5	4	3	2	2	2	2	3	4	2	3	4	3	3	2	2	4.0	11.1	
16-Jul-05	2	2	2	3	8	7	3	3	3	4	3	3	2	2	2	2	3	8	3	3	4	4	4	5	3.6	8.1	
17-Jul-05	6	3	5	3	9	11	5	3	0	C	C	C	C	C	C	C	5	6	6	7	7	8	7	6	N	10.9	
18-Jul-05	7	7	7	5	5	8	9	9	6	6	7	6	6	5	6	7	10	9	6	6	9	15	7	7	7.1	15.1	
19-Jul-05	7	5	4	4	5	6	6	6	5	5	5	5	5	5	9	6	7	6	6	5	6	8	7	7	5.5	9.4	
20-Jul-05	8	11	5	4	4	9	31	17	8	6	6	8	5	5	12	13	8	5	3	4	6	13	16	11	9.3	31.2	
21-Jul-05	7	6	9	12	10	16	25	65	8	8	6	3	3	4	4	4	5	6	6	6	8	7	7	7	10.3	65.1	
22-Jul-05	5	5	4	5	5	24	36	26	16	9	12	5	7	5	4	5	5	5	5	5	6	5	4	4	8.9	36.0	
23-Jul-05	4	3	3	4	3	3	4	4	3	4	4	3	3	3	2	3	3	3	3	3	3	3	4	3	3.2	4.1	
24-Jul-05	4	5	5	5	6	5	8	7	6	5	4	3	3	4	4	3	3	4	4	6	6	7	5	7	4.8	8.3	
25-Jul-05	5	5	4	4	4	9	20	15	6	4	18	6	4	5	131	3	5	5	6	5	10	6	4	4	11.8	131.1	
26-Jul-05	4	5	6	5	18	21	11	7	10	8	8	4	5	5	4	2	2	2	2	8	5	4	7	9	7.1	21.4	
27-Jul-05	5	5	13	11	10	10	10	14	6	4	28	14	3	3	4	9	3	6	4	8	11	9	8	9	8.9	28.2	
28-Jul-05	4	3	6	3	4	6	9	13	5	4	7	6	3	4	3	2	4	2	3	6	8	4	4	16	5.5	16.0	
29-Jul-05	6	3	3	3	3	6	20	9	15	3	3	2	4	2	2	2	2	2	3	2	4	6	5	3	4.7	20.4	
30-Jul-05	6	5	5	6	5	5	8	4	2	2	1	1	1	1	1	2	1	1	2	2	3	2	3	7	3.1	7.6	
31-Jul-05	5	4	4	3	3	3	4	5	3	4	1	1	0	0	0	0	1	1	2	4	4	2	2	2	2.4	5.0	
Hourly Avg	4.5	4.2	4.1	4.2	5.5	8.5	10.2	9.1	4.9	3.8	4.9	3.8	5.7	2.7	7.0	3.0	3.0	3.1	3.2	3.8	4.6	5.0	4.6	4.8			
Hourly Max	13.8	11.8	13.2	12.3	17.9	25.1	36.0	65.1	16.1	10.0	28.2	20.3	97.4	5.8	131.1	13.0	10.0	9.2	10.9	8.4	11.2	15.1	16.0	16.0			

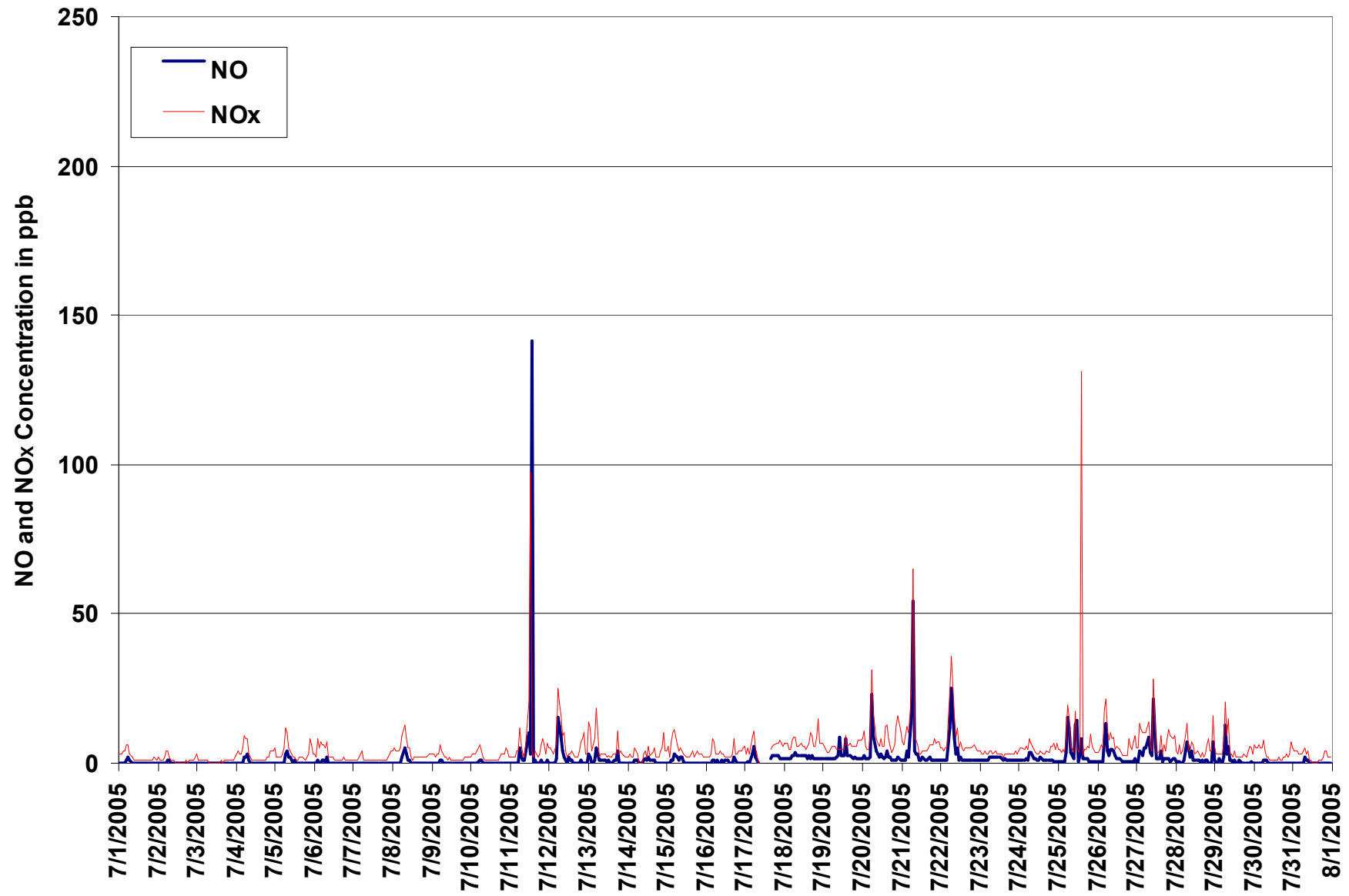


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

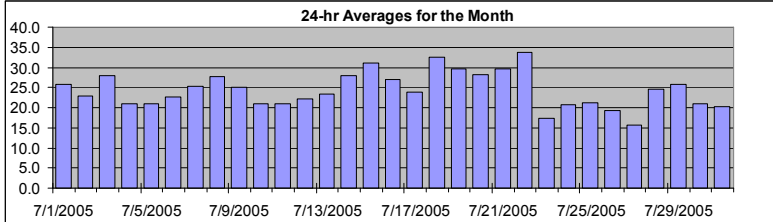
Monitoring Dates: July 1, 2005 to August 1, 2005

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	50.8 ppb	22-Jul	12:00 13:00
Maximum 24-hr Average:	33.8 ppb	22-Jul	

AIC Time:	0 hrs		Operational Time:	738 hrs				
Calibration Time:	6 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	46.7	39.0	29.2	25.0	18.3	11.5	8.3	24.4 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-05	25	22	20	18	12	10	12	15	21	28	31	31	32	31	30	30	32	32	32	32	31	34	30	30	25.9	34.0	
2-Jul-05	31	30	29	29	25	20	20	21	23	24	26	26	23	24	21	20	20	21	20	20	21	22	20	16	23.0	31.0	
3-Jul-05	13	17	20	21	19	19	21	23	25	26	28	28	29	31	32	35	40	43	42	39	34	31	30	25	28.0	43.0	
4-Jul-05	22	19	22	21	17	13	15	17	19	24	27	26	26	24	23	23	23	22	22	20	19	19	20	20	21.0	27.0	
5-Jul-05	17	18	18	17	14	13	7	9	14	13	19	26	29	28	27	24	24	27	27	28	28	24	24	28	21.0	29.0	
6-Jul-05	26	26	15	13	9	14	13	19	13	23	20	22	27	31	30	31	28	28	28	26	26	25	25	24	22.6	31.0	
7-Jul-05	24	23	22	21	17	17	21	23	23	25	26	27	29	30	29	30	30	30	30	31	29	26	23	21	25.3	31.0	
8-Jul-05	21	19	19	20	14	16	11	12	18	19	32	38	36	36	37	38	37	33	35	34	39	39	33	31	27.8	39.0	
9-Jul-05	28	26	27	23	23	18	20	19	21	24	28	27	28	29	28	28	28	28	28	28	25	24	23	21	25.1	29.0	
10-Jul-05	20	19	17	17	14	14	17	19	22	24	25	25	25	25	26	26	26	26	25	23	21	20	19	19	21.1	26.0	
11-Jul-05	19	19	18	16	13	15	16	18	24	25	21	25	26	26	26	26	26	26	26	25	21	18	19	14	21.0	26.5	
12-Jul-05	13	14	14	14	15	10	10	15	16	22	28	33	32	27	26	30	33	31	28	25	26	24	24	22	22.2	33.3	
13-Jul-05	21	15	15	14	13	9	16	24	25	26	25	25	26	28	30	29	28	29	28	27	27	27	26	26	23.3	29.6	
14-Jul-05	29	29	28	28	26	23	25	26	29	30	28	28	28	C	C	C	33	32	30	30	27	26	23	26	27.8	33.1	
15-Jul-05	28	28	23	14	13	16	18	22	22	31	42	46	49	48	48	46	41	36	33	28	30	27	28	30	31.1	48.8	
16-Jul-05	34	34	31	27	22	21	22	21	22	23	25	26	25	28	33	32	33	27	30	27	25	26	27	25	26.9	34.3	
17-Jul-05	20	18	16	14	13	14	16	11	14	23	28	30	30	C	C	C	29	29	28	28	29	28	40	44	23.9	44.1	
18-Jul-05	34	27	23	23	25	23	25	29	30	37	38	42	40	40	39	39	35	41	39	36	32	27	29	26	32.5	41.6	
19-Jul-05	25	25	28	29	29	33	32	31	29	28	26	28	30	30	33	34	35	33	34	33	29	25	29	25	29.7	34.7	
20-Jul-05	29	16	19	23	23	21	13	16	18	31	36	38	41	42	36	35	35	35	35	33	31	28	25	20	28.3	42.1	
21-Jul-05	19	21	16	9	7	10	10	12	14	19	36	37	42	44	46	45	45	47	50	46	38	34	31	35	29.7	50.0	
22-Jul-05	33	35	33	29	29	23	13	21	22	38	45	50	51	47	44	44	41	39	36	32	29	23	26	27	33.8	50.8	
23-Jul-05	20	14	15	15	14	13	12	13	13	13	13	14	16	18	19	19	22	23	23	23	22	21	20	22	17.4	23.4	
24-Jul-05	20	19	12	11	12	16	15	16	18	19	23	25	26	25	26	27	29	30	31	26	22	20	17	15	20.8	31.1	
25-Jul-05	14	13	11	10	11	8	8	10	16	23	28	30	31	32	32	30	28	28	28	24	25	24	23	18	21.1	32.2	
26-Jul-05	18	16	14	16	13	7	9	11	14	16	17	21	21	24	30	32	31	29	27	24	22	19	15	14	19.2	32.0	
27-Jul-05	13	15	11	8	5	7	9	9	12	16	19	22	24	27	28	26	25	24	21	19	12	10	9	9	15.8	27.5	
28-Jul-05	9	12	14	16	11	10	8	12	16	21	24	30	42	46	40	39	36	37	33	29	29	27	28	23	24.6	45.7	
29-Jul-05	23	19	19	16	14	14	13	13	18	26	29	30	30	33	35	36	36	35	33	32	30	28	27	30	25.7	35.8	
30-Jul-05	21	16	16	16	18	19	17	16	18	22	25	29	29	28	27	26	26	27	22	21	17	21	13	11	20.9	29.0	
31-Jul-05	14	13	15	14	16	18	16	13	15	19	26	27	28	28	28	28	27	27	26	17	15	20	18	16	20.2	28.0	
Hourly Avg	22.1	20.6	19.4	18.1	16.3	15.6	15.4	17.2	19.5	23.8	27.2	29.4	30.6	31.4	31.3	31.3	31.0	30.7	30.0	27.8	26.1	24.8	24.1	22.9			
Hourly Max	34.3	34.8	33.2	29.2	29.5	33.1	32.5	31.1	30.5	38.4	44.8	49.9	50.8	48.4	47.9	46.1	45.1	46.9	50.0	46.0	39.0	39.0	39.9	44.1			

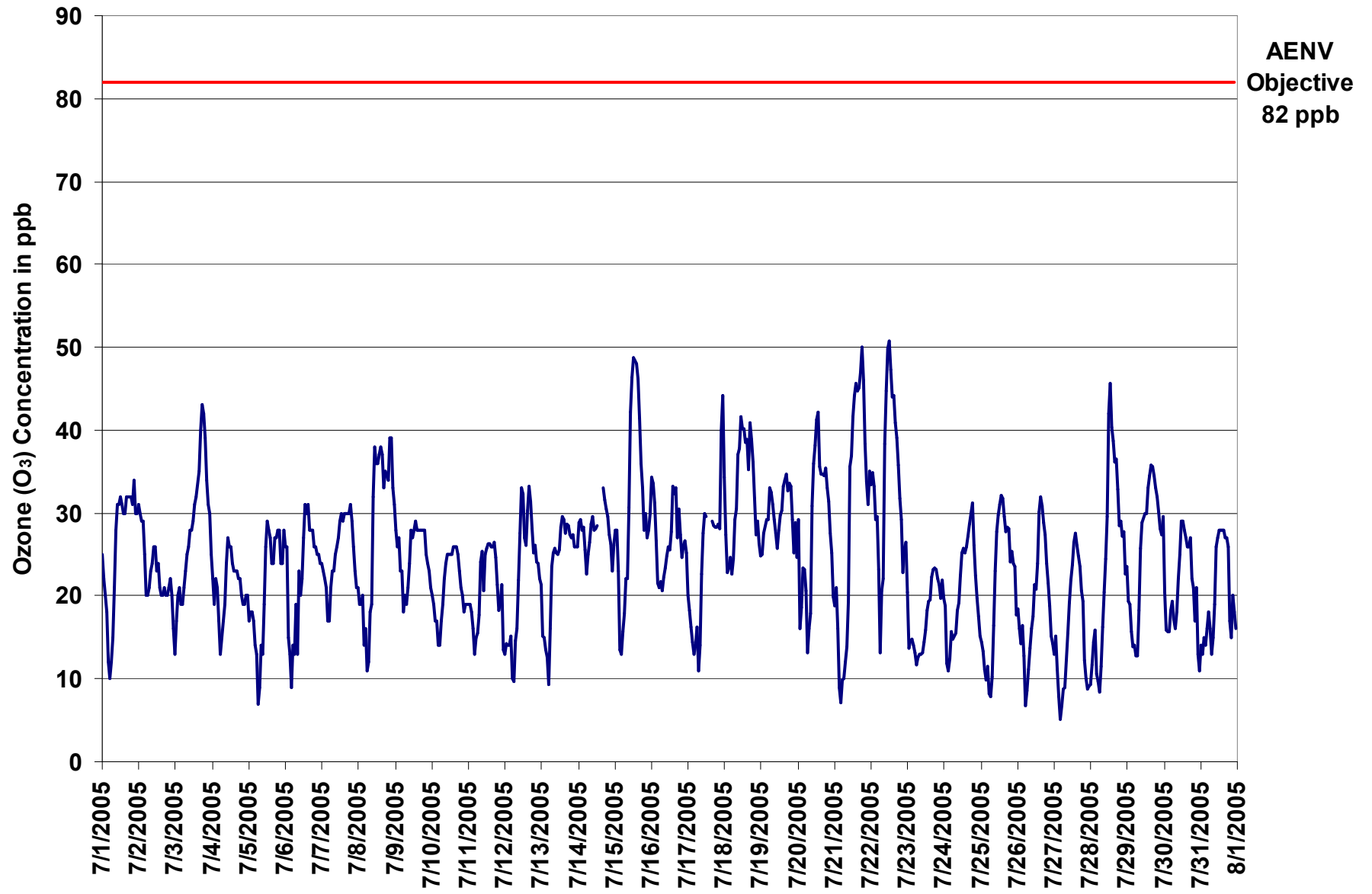


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

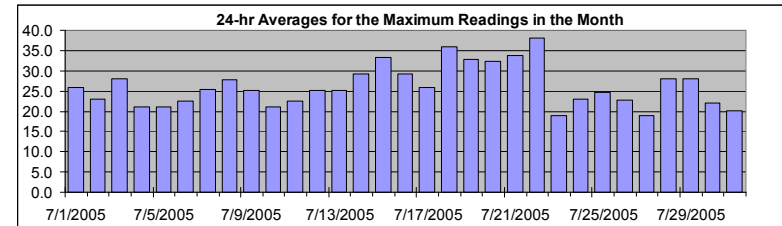
Ozone (O₃)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Value:	54.0	ppb	22-Jul	12:00 13:00
Maximum 24-hr Value:	38.0	ppb	22-Jul	

AIC Time:	0 hrs	Operational Time:	738 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	50.8	42.7	30.8	26.0	19.9	13.0	10.5	26.1 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-Jul-05	25	22	20	18	12	10	12	15	21	28	31	31	32	31	30	30	32	32	32	31	34	30	30	25.9	34.0	
2-Jul-05	31	30	29	29	25	20	20	21	23	24	26	26	23	24	21	20	20	21	20	20	21	22	20	16	23.0	31.0
3-Jul-05	13	17	20	21	19	19	21	23	25	26	28	28	29	31	32	35	40	43	42	39	34	31	30	25	28.0	43.0
4-Jul-05	22	19	22	21	17	13	15	17	19	24	27	26	26	24	23	23	23	22	22	20	19	19	20	20	21.0	27.0
5-Jul-05	17	18	18	17	14	13	7	9	14	13	19	26	29	28	27	24	24	27	27	28	28	24	24	28	21.0	29.0
6-Jul-05	26	26	15	13	9	14	13	19	13	23	20	22	27	31	30	31	28	28	28	26	26	25	25	24	22.6	31.0
7-Jul-05	24	23	22	21	17	17	21	23	23	25	26	27	29	30	29	30	30	30	30	31	29	26	23	21	25.3	31.0
8-Jul-05	21	19	19	20	14	16	11	12	18	19	32	38	36	36	37	38	37	33	35	34	39	39	33	31	27.8	39.0
9-Jul-05	28	26	27	23	23	18	20	19	21	24	28	27	28	29	28	28	28	28	28	28	25	24	23	21	25.1	29.0
10-Jul-05	20	19	17	17	14	14	17	19	22	24	25	25	25	25	26	26	26	25	23	21	20	18	19	19	21.1	26.0
11-Jul-05	19	19	18	16	13	15	18	20	26	27	27	27	28	28	27	27	27	27	26	24	21	21	22	17	22.6	27.9
12-Jul-05	15	17	14	16	17	17	16	17	20	25	32	35	36	29	29	35	38	33	30	28	29	27	25	24	25.3	37.7
13-Jul-05	23	17	15	16	15	13	23	26	26	27	26	26	27	30	31	31	29	30	30	29	28	29	27	27	25.1	31.2
14-Jul-05	30	30	28	29	28	26	27	28	31	31	28	29	29	C	C	C	35	33	31	31	30	28	26	28	29.3	34.7
15-Jul-05	30	30	23	15	15	20	21	25	25	42	48	50	51	51	50	49	44	36	33	28	30	27	28	30	33.4	51.3
16-Jul-05	36	36	33	29	24	24	23	22	24	26	26	27	27	30	36	35	38	32	32	31	27	27	28	29	29.2	38.2
17-Jul-05	23	20	17	15	15	17	17	11	14	25	31	32	31	C	C	C	30	32	29	29	30	30	49	46	25.9	49.4
18-Jul-05	43	31	25	26	27	25	29	31	35	39	41	43	44	43	41	41	48	49	41	39	35	30	31	29	36.0	48.7
19-Jul-05	26	26	30	30	31	35	34	33	30	29	27	30	33	34	41	37	40	38	37	38	33	29	33	29	32.7	41.4
20-Jul-05	35	24	23	26	26	23	20	22	37	38	40	43	44	42	37	37	37	37	35	34	32	34	26	26	32.4	43.6
21-Jul-05	32	29	19	13	10	14	18	15	16	28	43	40	44	46	47	46	47	51	53	51	44	37	33	37	33.9	52.6
22-Jul-05	37	37	35	34	33	33	24	26	29	42	49	52	54	52	47	47	44	41	39	34	31	29	29	35	38.0	54.0
23-Jul-05	22	15	16	16	15	14	13	14	14	14	14	17	17	21	21	21	24	24	24	24	23	23	21	25	18.8	24.8
24-Jul-05	24	22	14	13	15	17	18	18	20	21	25	27	27	27	28	29	30	32	34	29	25	24	19	17	23.0	34.0
25-Jul-05	16	15	12	14	16	12	13	14	20	27	30	32	33	34	34	33	31	32	31	33	33	27	29	23	24.8	33.7
26-Jul-05	25	18	20	19	15	12	11	14	16	19	23	24	24	28	33	33	33	31	31	28	27	22	20	18	22.7	33.5
27-Jul-05	19	19	15	12	10	10	11	11	15	18	24	23	26	29	30	28	28	28	23	22	16	12	11	11	18.9	29.7
28-Jul-05	10	14	16	17	14	12	11	15	19	24	27	39	50	51	44	41	40	39	37	32	33	31	31	30	28.1	50.6
29-Jul-05	26	21	21	17	15	15	18	16	24	30	30	32	33	35	36	37	38	37	34	34	33	30	29	31	28.1	37.7
30-Jul-05	25	22	20	19	22	23	20	16	18	22	25	29	29	28	27	26	26	27	22	21	17	21	13	11	22.0	29.0
31-Jul-05	14	13	15	14	16	18	16	13	15	19	26	27	28	28	28	28	27	27	26	17	15	20	18	16	20.2	28.0
Hourly Avg	24.5	22.4	20.6	19.6	17.9	17.9	18.0	18.8	21.3	25.9	29.1	30.9	32.1	33.0	32.9	32.7	32.9	32.4	31.2	29.5	27.8	26.4	26.0	25.0		
Hourly Max	43.5	37.4	34.7	34.3	32.8	35.2	33.9	33.3	35.0	42.2	49.4	52.5	54.0	52.1	49.9	48.8	47.9	51.4	52.6	51.1	44.1	39.0	49.4	46.3		

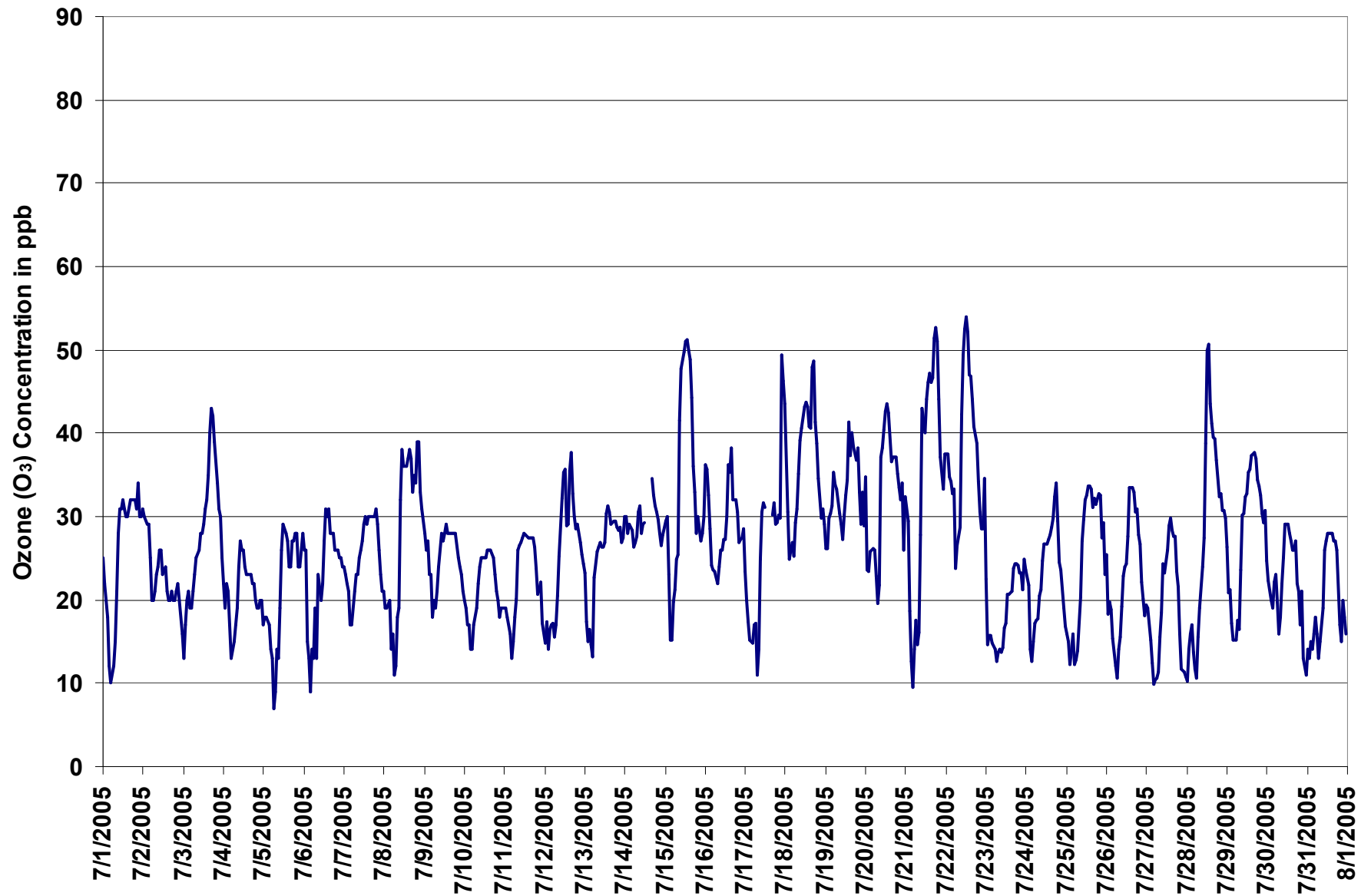
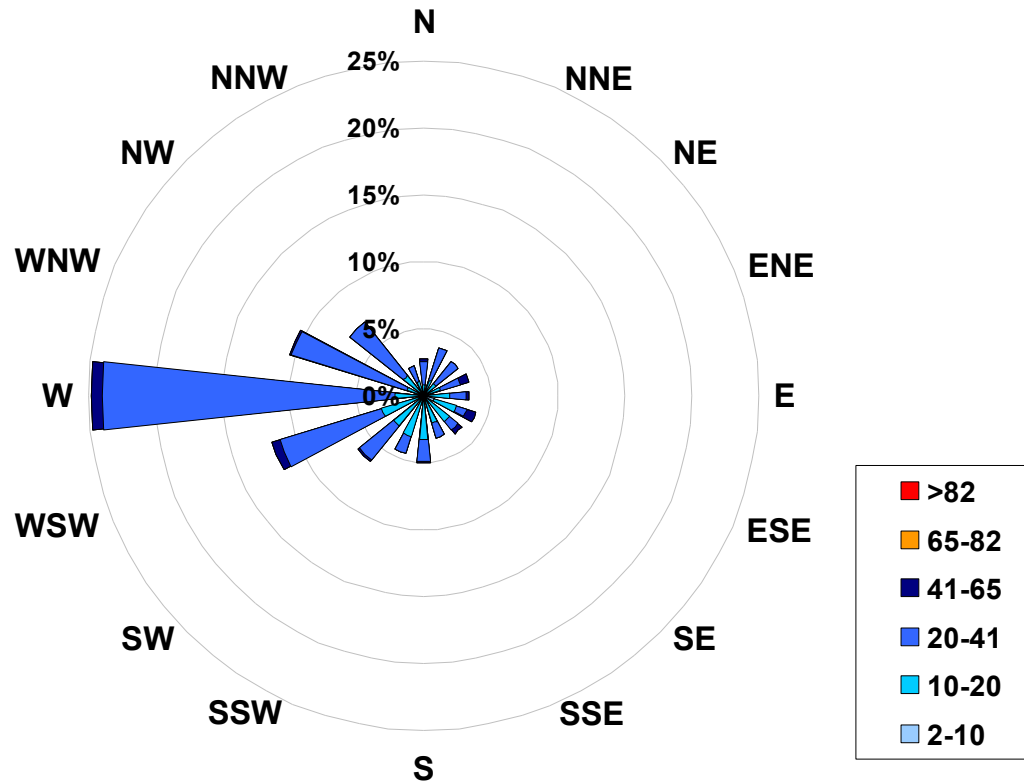


Figure 41. PASZA - Beaverlodge Ozone 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for July 2005



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	23	
10	to 20	217	
20	to 41	468	
41	to 65	29	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			738

PASZA - Beaverlodge Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

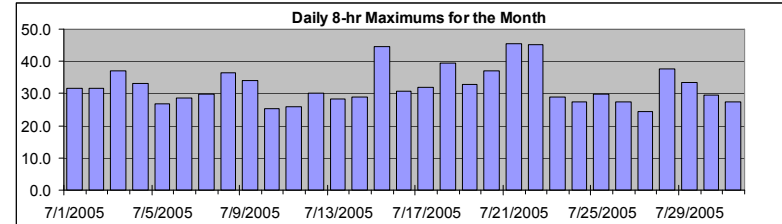
Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: July 1, 2005 to August 1, 2005

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	45.5 ppb	21-Jul	19:00 20:00



Percentile	99	95	75	50	25	5	1
	43.9	36.8	28.6	24.3	19.1	13.4	11.1

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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
1-Jul-05	30	29	28	26	24	22	19	17	16	17	18	20	23	25	27	29	31	31	31	31	31	32	32	32	32	31.6	
2-Jul-05	32	31	31	31	30	28	27	26	25	24	24	23	23	23	24	23	23	23	22	21	21	21	21	21	20	31.5	
3-Jul-05	19	19	19	19	19	18	18	19	21	22	23	24	25	26	28	29	31	33	35	36	37	37	37	36	36	37.0	
4-Jul-05	33	30	28	26	23	21	19	18	18	19	19	20	21	22	23	24	25	24	24	23	22	21	21	21	21	33.3	
5-Jul-05	20	19	19	19	18	17	16	14	14	13	13	14	16	18	21	23	24	26	27	27	27	26	26	26	26	26.8	
6-Jul-05	27	26	25	23	21	19	18	17	15	15	16	17	19	21	23	25	27	27	28	29	29	28	27	26	26	28.6	
7-Jul-05	26	25	24	24	23	22	21	21	21	21	22	22	24	26	27	27	28	29	29	30	30	29	29	28	28	29.9	
8-Jul-05	26	25	24	22	20	19	18	17	16	16	18	20	23	25	29	32	34	36	36	36	36	37	36	35	35	36.5	
9-Jul-05	34	33	32	31	29	26	25	23	22	22	22	23	23	25	26	27	28	28	28	28	28	28	27	27	26	34.0	
10-Jul-05	25	24	22	21	19	18	17	17	17	18	19	20	21	23	24	25	25	25	25	25	25	24	23	22	21	25.4	
11-Jul-05	21	20	19	19	18	17	17	17	17	18	18	20	21	23	24	25	25	25	26	25	24	24	23	21	21	25.8	
12-Jul-05	20	18	17	16	16	14	13	13	13	14	16	18	21	23	25	27	29	30	30	29	28	28	28	27	27	30.2	
13-Jul-05	25	23	22	20	18	17	16	16	16	18	19	20	22	24	26	27	27	27	28	28	28	28	28	27	27	28.3	
14-Jul-05	27	28	27	28	27	27	27	27	27	27	27	27	27	28	N	N	N	N	N	N	N	N	N	29	28	28.8	
15-Jul-05	28	27	26	24	23	21	21	20	19	20	22	26	31	35	39	42	44	45	43	41	39	36	34	32	32	44.6	
16-Jul-05	31	30	30	30	29	28	28	26	25	24	23	23	23	24	25	27	28	29	29	30	29	29	28	28	28	30.8	
17-Jul-05	26	25	23	21	20	19	17	15	15	15	17	19	21	22	N	N	N	N	N	N	N	N	30	32	31.9		
18-Jul-05	33	32	32	31	31	30	28	26	26	27	29	31	33	35	37	38	39	39	39	39	38	36	35	33	33	39.3	
19-Jul-05	32	30	29	28	27	28	28	29	30	30	30	30	30	29	29	30	30	31	32	33	33	32	31	30	30	32.7	
20-Jul-05	30	28	26	24	24	23	21	20	19	20	23	24	27	29	32	35	37	37	37	36	35	33	32	30	30	37.1	
21-Jul-05	28	27	24	21	18	16	14	13	12	12	15	18	22	27	31	35	39	43	44	46	45	44	42	41	41	45.5	
22-Jul-05	39	38	36	34	32	31	29	27	26	26	28	30	33	36	40	43	45	45	44	42	39	36	34	31	31	45.1	
23-Jul-05	29	26	23	21	19	18	16	14	13	13	13	13	14	15	16	17	18	20	21	21	22	22	22	22	22	28.9	
24-Jul-05	22	21	20	18	17	16	16	15	15	15	16	18	20	21	22	24	25	26	27	27	27	26	25	24	24	27.5	
25-Jul-05	22	20	17	15	14	13	11	11	11	12	14	17	19	22	25	28	29	30	30	29	28	27	26	25	25	29.8	
26-Jul-05	24	22	20	19	18	16	14	13	12	12	13	14	15	17	19	22	24	26	27	27	27	27	25	23	23	27.3	
27-Jul-05	20	19	17	15	13	11	10	10	9	10	11	12	15	17	19	22	23	24	24	24	23	21	18	16	16	24.4	
28-Jul-05	14	13	12	11	11	11	11	11	12	13	15	16	20	25	29	32	35	37	38	38	36	34	32	30	30	37.8	
29-Jul-05	29	26	25	23	21	20	18	16	16	17	18	20	22	24	27	30	32	33	33	34	34	33	32	31	31	33.6	
30-Jul-05	29	27	25	23	21	20	19	17	17	18	19	21	22	23	24	26	27	27	27	26	24	23	22	20	20	29.4	
31-Jul-05	18	17	16	15	15	14	15	15	15	16	17	19	20	22	23	25	26	27	27	26	25	24	22	21	21	27.4	

Hourly Max	39.3	37.8	35.7	33.6	32.5	31.1	28.9	29.1	29.6	29.9	29.7	31.0	32.9	35.9	39.7	42.7	45.0	45.1	44.4	45.5	45.1	43.8	42.0	40.8
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PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

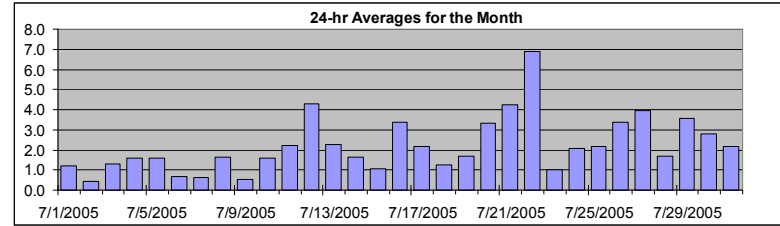
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	18.9 $\mu\text{g}/\text{m}^3$ 22-Jul 21:00 22:00
Maximum 24-hr Value:	6.9 $\mu\text{g}/\text{m}^3$ 22-Jul

AIC Time:	0 hrs	Operational Time:	723 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	97.2%
Percentile	99	95	75
	10.0	6.9	3.3
		50	1.6
		25	0.3
		5	0.0
		1	0.0
		Average	2.2 $\mu\text{g}/\text{m}^3$
		Geomean	1.8 $\mu\text{g}/\text{m}^3$



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
1-Jul-05	0:00	0	1	0	0	1	2	3	4	3	0	0	0	2	1	4	1	1	1	1	2	0	0	1	1	1.2	4.3	
2-Jul-05	1:00	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0.4	1.7	
3-Jul-05	2:00	0	0	1	1	1	3	3	1	0	1	0	1	1	0	1	1	0	2	2	3	4	2	1	2	1.3	3.8	
4-Jul-05	3:00	3	2	0	1	1	2	4	3	4	1	0	1	0	0	0	1	0	2	1	5	1	2	3	2	1.6	4.5	
5-Jul-05	4:00	2	1	2	3	1	2	4	4	4	5	3	0	0	0	2	7	0	0	0	0	0	0	0	0	1.6	7.0	
6-Jul-05	5:00	0	0	2	2	1	2	1	0	4	0	3	D	D	0	0	0	0	0	0	1	0	0	0	0	0.7	4.3	
7-Jul-05	6:00	0	0	0	0	0	1	0	0	1	1	0	1	0	0	1	0	1	0	1	1	2	2	2	1	0.7	2.1	
8-Jul-05	7:00	1	0	0	1	1	2	3	5	2	5	0	2	2	2	1	2	1	2	2	4	1	1	0	0	1.6	4.7	
9-Jul-05	8:00	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	2	1	1	1	0.5	1.7	
10-Jul-05	9:00	1	1	1	1	1	2	1	2	1	0	0	1	1	1	1	1	0	1	4	3	4	5	4	2	1.6	5.1	
11-Jul-05	10:00	2	3	2	1	2	2	3	4	1	1	1	3	1	2	0	2	1	0	4	3	4	4	2	6	2.2	6.4	
12-Jul-05	11:00	6	3	4	2	3	7	8	8	12	8	2	3	7	5	4	1	2	0	5	4	2	4	1	0	4.3	11.6	
13-Jul-05	12:00	1	1	1	1	2	5	5	3	2	3	2	2	0	2	3	4	2	1	3	3	2	2	1	1	2.3	5.5	
14-Jul-05	13:00	0	2	3	2	3	4	2	2	2	0	0	2	1	1	1	1	1	1	3	5	1	1	0	1	1.6	4.8	
15-Jul-05	14:00	0	0	1	2	1	0	2	1	2	D	D	0	0	0	0	4	3	3	2	2	D	0	0	0	1.1	3.7	
16-Jul-05	15:00	0	1	0	0	1	2	3	3	3	5	5	5	5	5	4	7	4	8	4	6	3	2	3	2	3.4	8.0	
17-Jul-05	16:00	2	2	2	2	5	7	3	3	3	10	D	0	0	D	0	D	D	0	1	1	0	1	4	0	2.2	10.0	
18-Jul-05	17:00	3	1	0	0	0	0	0	0	0	0	0	3	0	5	1	0	3	0	0	0	9	2	0	1	1.2	8.9	
19-Jul-05	18:00	1	1	0	0	0	0	2	1	2	2	3	3	4	2	0	0	4	5	2	0	2	1	2	2	1.7	5.2	
20-Jul-05	19:00	2	3	3	3	3	4	10	8	6	0	4	3	2	2	4	6	4	2	1	3	1	2	1	3	3.3	9.7	
21-Jul-05	20:00	2	1	1	1	2	4	4	6	4	3	0	3	2	4	5	4	7	5	7	9	9	6	5	4	4.2	9.4	
22-Jul-05	21:00	5	4	4	4	3	4	9	7	7	4	7	9	9	7	4	3	5	3	10	13	19	8	6	6.9	18.9		
23-Jul-05	22:00	5	D	D	0	0	0	0	0	0	0	0	0	0	D	1	1	0	1	1	3	2	3	3	1	1.0	5.5	
24-Jul-05	23:00	3	2	1	1	3	6	5	4	3	2	1	1	2	4	0	1	1	1	1	0	5	3	2	0	0	2.1	5.6
25-Jul-05	0:00	0	0	0	0	2	2	10	0	2	0	1	0	0	0	1	11	3	D	2	5	3	2	1	3	2.2	10.5	
26-Jul-05	1:00	2	0	2	0	4	0	7	5	4	3	3	6	4	4	0	3	2	6	8	4	6	2	2	4	3.4	7.9	
27-Jul-05	2:00	2	6	3	0	0	5	7	5	3	5	4	7	4	5	6	4	7	4	3	4	6	5	1	0	4.0	7.0	
28-Jul-05	3:00	0	0	1	0	0	3	2	3	4	5	3	D	0	2	0	0	4	0	0	4	0	1	1	5	1.7	5.0	
29-Jul-05	4:00	0	1	3	6	4	6	6	6	5	2	6	D	6	D	0	2	2	3	3	4	4	3	5	1	3.6	6.5	
30-Jul-05	5:00	7	9	5	5	4	3	4	2	0	0	0	D	0	7	1	0	D	6	3	0	0	2	0	3	2.8	8.6	
31-Jul-05	6:00	4	2	2	0	0	3	7	5	1	0	0	D	0	1	0	0	1	3	11	8	0	D	0	0	2.2	10.9	
Hourly Avg		1.7	1.6	1.5	1.3	1.6	2.8	3.7	3.1	2.7	2.3	1.6	2.1	1.9	2.1	1.7	2.2	2.0	2.3	2.4	3.3	2.6	2.9	1.8	1.7			
Hourly Max		6.9	8.6	5.4	5.8	4.6	6.7	10.3	7.9	11.6	10.0	6.9	8.9	8.6	9.5	6.9	10.5	7.3	8.0	10.9	10.0	13.3	18.9	7.7	6.4			

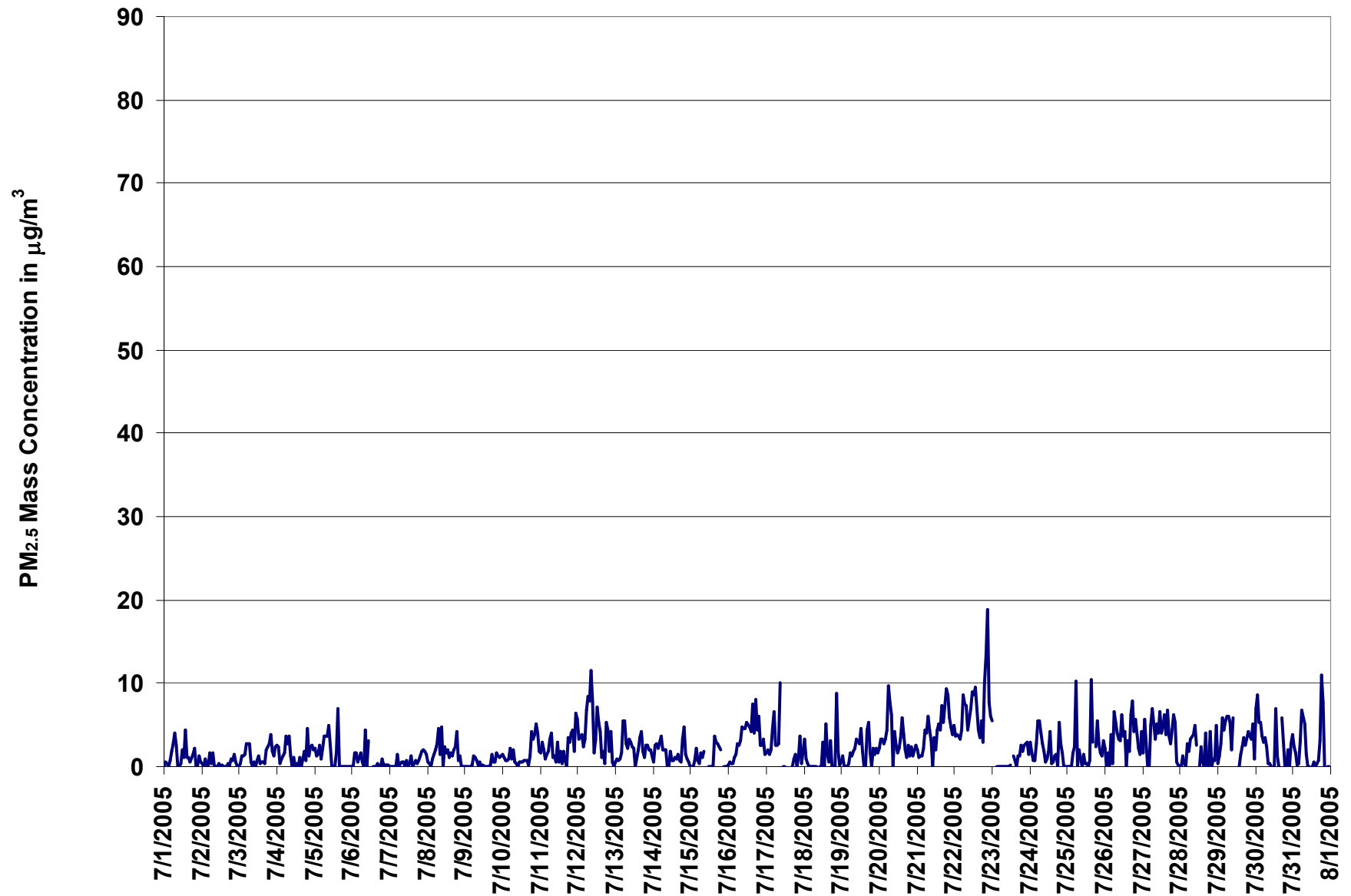


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

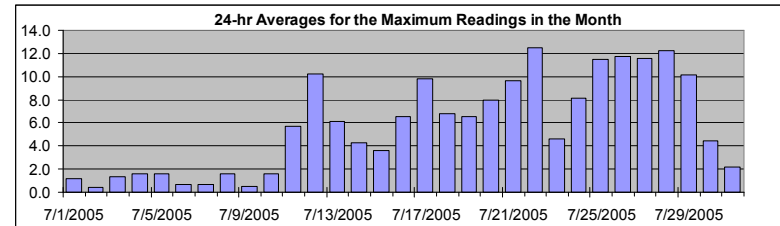
HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	57.2	µg/m ³	17-Jul	9:00 10:00
Maximum 24-hr Value:	12.5	µg/m ³	22-Jul	



AIC Time:	0 hrs	Operational Time:	723 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	97.2%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	22.7	16.4	8.8	4.3	1.2	0.0	0.0	5.7 µg/m ³	3.8 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-05	0	1	0	0	1	2	3	4	3	0	0	0	2	1	4	1	1	1	1	2	0	0	1	1	1.2	4.3
2-Jul-05	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0.4	1.7
3-Jul-05	0	0	1	1	1	3	3	1	0	1	0	1	1	0	1	1	0	2	2	3	4	2	1	2	1.3	3.8
4-Jul-05	3	2	0	1	1	2	4	3	4	1	0	1	0	0	0	1	0	2	1	5	1	2	3	2	1.6	4.5
5-Jul-05	2	1	2	3	1	2	4	4	4	5	3	0	0	0	2	7	0	0	0	0	0	0	0	0	1.6	7.0
6-Jul-05	0	0	2	2	1	2	1	0	4	0	3	D	D	0	0	0	0	0	0	1	0	0	0	0	0.7	4.3
7-Jul-05	0	0	0	0	0	1	0	0	1	1	0	1	0	0	1	0	1	0	1	1	2	2	2	1	0.7	2.1
8-Jul-05	1	0	0	1	1	2	3	5	2	5	0	2	2	2	1	2	1	2	2	4	1	1	0	0	1.6	4.7
9-Jul-05	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	2	1	1	1	0.5	1.7
10-Jul-05	1	1	1	1	1	2	1	2	1	0	0	1	1	1	1	0	1	4	3	4	5	4	2	1.6	5.1	
11-Jul-05	2	3	2	1	2	2	6	8	7	7	6	8	5	8	5	16	6	5	7	5	5	9	5	9	5.7	15.9
12-Jul-05	8	5	6	5	5	12	17	12	18	15	10	15	22	9	8	7	9	6	31	9	7	8	1	1	10.3	30.7
13-Jul-05	2	3	3	3	3	13	10	12	6	9	7	6	10	7	6	10	11	5	4	4	4	3	4	2	6.1	12.7
14-Jul-05	2	3	5	5	6	6	6	6	2	0	0	5	5	4	4	5	5	3	3	9	10	3	3	2	4.3	10.0
15-Jul-05	1	2	5	5	2	3	5	5	6	D	D	1	5	4	3	8	12	3	2	2	D	0	0	0	3.6	11.7
16-Jul-05	2	2	2	2	3	3	5	4	6	7	8	6	9	11	14	13	10	16	9	8	4	4	5	5	6.5	16.1
17-Jul-05	5	4	5	4	9	25	10	3	3	57	D	9	10	D	0	D	D	4	6	5	3	7	14	12	9.8	57.2
18-Jul-05	13	6	2	0	3	1	5	3	5	D	4	5	14	6	15	10	15	14	3	4	4	16	7	3	6.8	15.6
19-Jul-05	2	4	2	1	1	2	3	3	3	4	7	7	11	9	9	8	19	18	6	10	4	4	10	10	6.5	18.8
20-Jul-05	6	6	5	5	5	7	14	13	11	7	9	12	9	7	17	7	7	7	5	10	2	4	6	7	7.9	16.8
21-Jul-05	5	3	5	5	5	9	10	9	7	8	11	13	12	13	12	13	17	12	11	18	13	8	7	5	9.6	17.6
22-Jul-05	6	6	5	6	5	10	14	12	15	13	14	19	13	16	14	13	14	9	9	16	18	36	9	9	12.5	36.0
23-Jul-05	10	D	D	7	0	2	2	1	3	2	3	3	4	D	6	6	5	11	3	7	5	6	7	5	4.6	10.9
24-Jul-05	6	4	5	4	5	10	17	8	8	7	6	7	10	13	12	14	11	11	13	9	7	7	2	2	8.2	16.6
25-Jul-05	2	2	4	6	6	6	24	14	8	6	8	8	12	10	11	30	20	D	19	20	17	13	13	5	11.5	29.9
26-Jul-05	15	4	7	4	8	6	10	11	8	11	9	15	11	16	16	12	23	22	22	14	10	10	8	9	11.7	22.7
27-Jul-05	9	11	6	6	10	14	15	20	9	13	17	14	12	12	14	18	20	14	11	9	8	7	6	3	11.5	19.8
28-Jul-05	4	2	6	7	4	9	7	9	10	13	20	D	11	14	19	22	16	17	23	15	9	18	10	15	12.2	22.8
29-Jul-05	5	3	7	13	8	10	13	13	11	9	15	D	23	D	6	11	14	14	8	9	8	6	9	9	10.2	22.7
30-Jul-05	19	15	8	9	6	6	8	2	0	0	0	D	0	7	1	0	D	6	3	0	0	2	0	3	4.4	19.3
31-Jul-05	4	2	2	0	0	3	7	5	1	0	0	D	0	1	0	0	1	3	11	8	0	D	0	0	2.2	10.9
Hourly Avg	4.3	3.2	3.3	3.5	3.3	5.7	7.3	6.2	5.3	6.9	5.5	6.1	7.1	6.2	6.5	7.8	8.2	7.0	7.1	6.8	5.1	6.3	4.4	4.1		
Hourly Max	19.3	15.4	8.1	12.9	9.8	25.1	24.2	19.8	17.8	57.2	20.2	18.8	22.7	16.3	18.7	29.9	22.7	22.2	30.7	19.7	17.5	36.0	14.4	15.2		

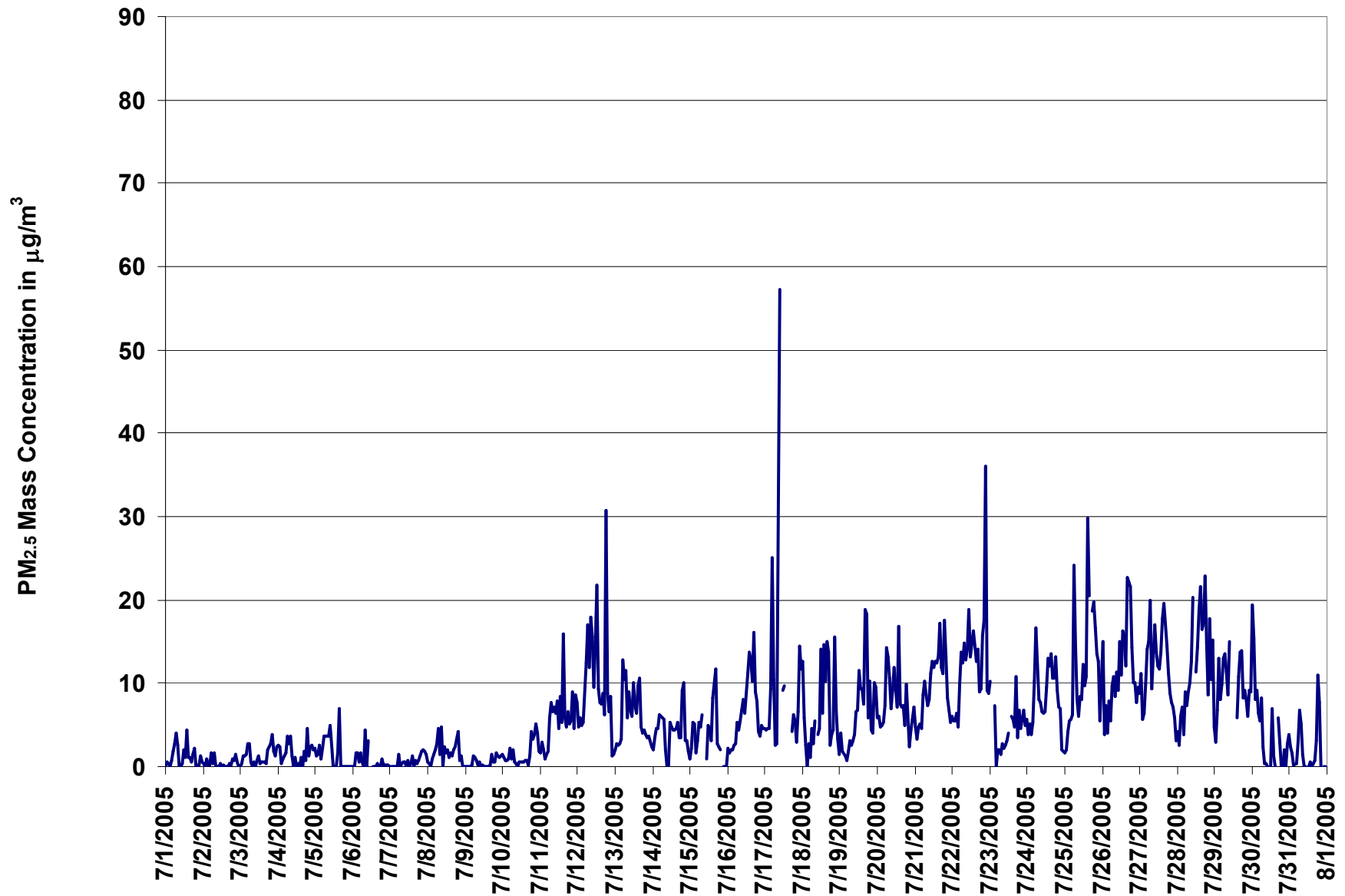
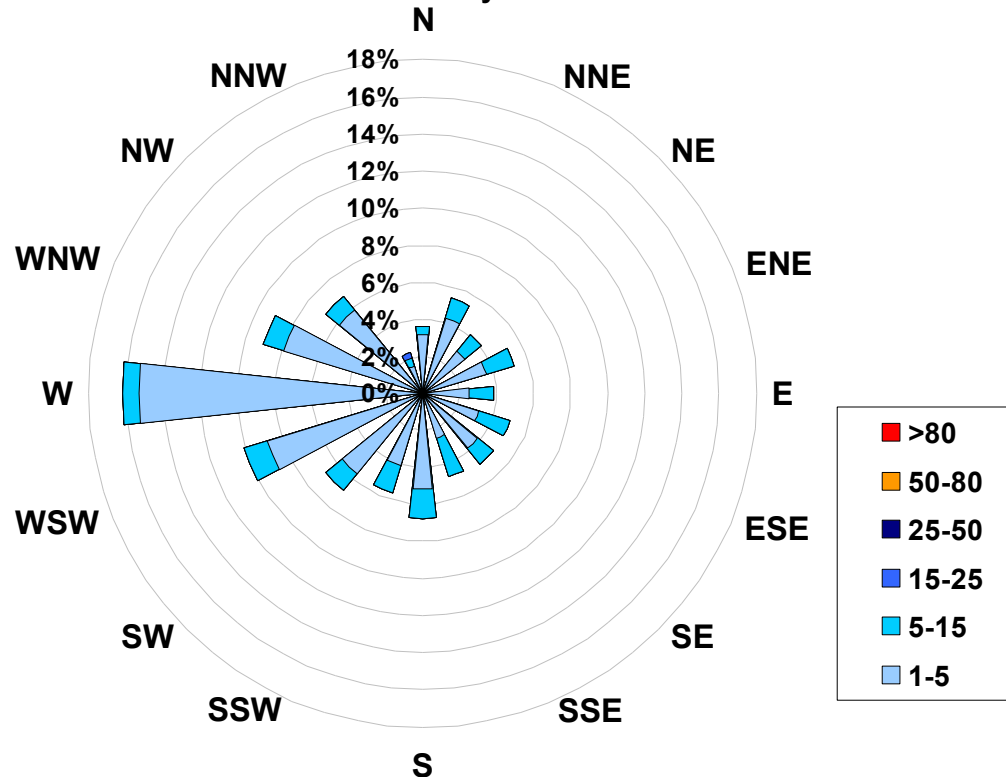


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for July 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	632	
5	to 15	89	
15	to 25	1	
25	to 50	0	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			723

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

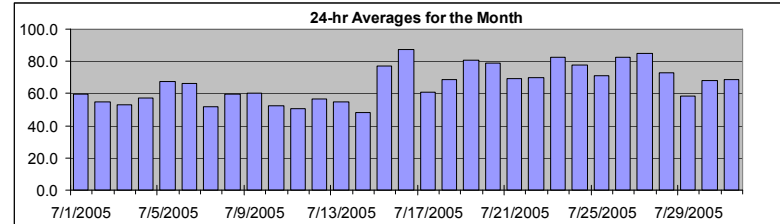
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	97.3	%	27-Jul	5:00 6:00
Maximum 24-hr Value:	87.1	%	16-Jul	



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
	96.8	94.1	82.6	68.0	49.0	36.0	31.3	66.2 %

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																								24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Jul-05	81	85	89	88	89	85	75	69	60	48	41	39	39	44	50	50	45	44	43	42	47	53	63	69	59.9	89.0
2-Jul-05	69	73	77	73	72	72	73	64	54	48	42	40	39	38	37	36	37	40	41	44	50	58	66	72	54.8	77.0
3-Jul-05	77	77	75	75	77	70	62	56	49	44	42	41	40	38	37	36	35	38	38	42	48	55	56	65	53.0	77.0
4-Jul-05	70	74	71	73	75	76	69	68	62	54	47	46	43	43	40	40	40	43	46	48	56	59	64	66	57.2	76.0
5-Jul-05	71	75	79	78	80	77	81	76	70	70	59	51	47	44	47	70	69	60	61	64	67	69	76	74	67.3	81.0
6-Jul-05	75	75	82	86	88	86	82	76	85	90	85	75	63	52	47	41	41	41	41	45	50	57	61	67	66.3	90.0
7-Jul-05	67	70	72	72	76	71	61	52	49	48	45	41	39	38	37	35	35	36	37	38	44	55	65	66	52.0	76.0
8-Jul-05	63	65	68	68	72	70	73	68	57	58	44	43	47	47	43	42	47	51	46	50	62	86	85	82	59.9	86.0
9-Jul-05	84	86	84	87	85	79	76	77	70	62	51	53	42	37	36	37	36	40	40	41	48	56	61	71	60.0	87.0
10-Jul-05	75	72	75	77	80	69	66	58	49	42	38	37	36	35	32	31	31	33	40	46	50	55	62	70	52.5	80.0
11-Jul-05	72	74	75	80	80	71	66	61	48	41	38	39	33	32	29	32	33	28	31	37	44	51	50	68	50.5	80.0
12-Jul-05	70	71	80	70	62	59	55	52	52	50	40	30	35	49	52	43	44	46	58	56	63	67	72	77	56.4	79.6
13-Jul-05	77	81	80	79	77	76	68	53	48	45	46	45	41	33	31	33	37	39	40	47	54	60	65	68	55.0	80.9
14-Jul-05	58	54	54	58	60	58	52	46	39	36	34	33	33	33	35	38	39	42	46	48	58	64	70	71	48.3	70.9
15-Jul-05	69	69	81	90	93	94	94	89	86	75	61	54	53	50	52	58	84	84	96	90	83	83	83	81	77.2	96.0
16-Jul-05	86	89	92	93	94	93	92	93	93	90	89	87	84	79	68	80	88	86	76	82	89	89	90	89	87.1	94.0
17-Jul-05	96	97	97	97	94	81	77	77	66	60	49	43	42	40	37	33	33	34	37	41	44	50	59	79	61.0	97.0
18-Jul-05	90	89	92	86	77	77	66	60	56	47	46	38	43	43	54	69	84	76	76	67	71	78	83	83	68.6	91.9
19-Jul-05	87	90	88	85	82	85	92	92	93	92	91	82	71	67	70	64	63	72	74	69	74	82	81	87	80.5	92.9
20-Jul-05	83	91	92	89	89	90	85	79	77	63	60	56	52	50	61	86	91	85	80	81	84	89	90	93	79.0	93.4
21-Jul-05	94	93	96	96	97	96	86	86	90	79	60	53	47	46	42	39	44	47	49	54	63	69	72	70	69.5	96.8
22-Jul-05	76	77	78	83	84	82	76	71	65	61	60	58	60	60	60	56	53	53	55	59	66	91	96	95	69.8	96.0
23-Jul-05	95	96	94	93	91	91	90	85	82	83	82	78	73	69	69	70	68	70	78	80	83	85	89	90	82.7	96.3
24-Jul-05	93	92	96	96	97	95	89	89	81	75	59	58	61	67	61	61	50	51	63	75	81	87	92	94	77.6	96.9
25-Jul-05	94	96	96	97	95	95	89	72	62	57	51	47	43	38	36	56	68	55	55	70	80	82	80	90	71.0	96.6
26-Jul-05	90	92	94	94	93	95	96	94	85	79	80	77	77	78	61	56	60	65	68	78	91	92	94	95	82.6	95.7
27-Jul-05	95	94	95	96	97	97	94	91	87	80	70	65	64	61	65	69	77	81	87	90	94	96	96	97	85.0	97.3
28-Jul-05	97	97	93	88	91	93	88	82	77	69	61	70	63	58	61	54	61	57	56	56	62	71	69	75	72.8	97.3
29-Jul-05	77	84	86	90	90	88	80	80	74	62	55	45	46	36	32	31	32	33	35	38	46	51	54	54	58.3	90.2
30-Jul-05	67	76	80	81	85	83	83	77	72	62	54	43	43	42	58	57	56	56	67	72	78	72	82	81	67.8	84.9
31-Jul-05	82	86	88	88	88	87	86	85	76	67	54	47	43	40	38	39	42	42	48	66	83	89	90	91	68.5	91.0
Hourly Avg	80.0	81.9	83.8	84.1	84.2	82.0	78.2	73.5	68.1	62.6	56.0	52.1	49.8	48.0	47.7	49.7	52.3	52.4	55.1	58.6	64.9	71.1	74.5	78.4		
Hourly Max	97.3	97.1	96.7	97.0	96.9	97.3	95.7	93.7	93.1	92.2	91.4	86.8	84.5	79.1	69.7	86.4	90.6	85.6	96.0	90.4	93.9	95.9	96.4	97.0		

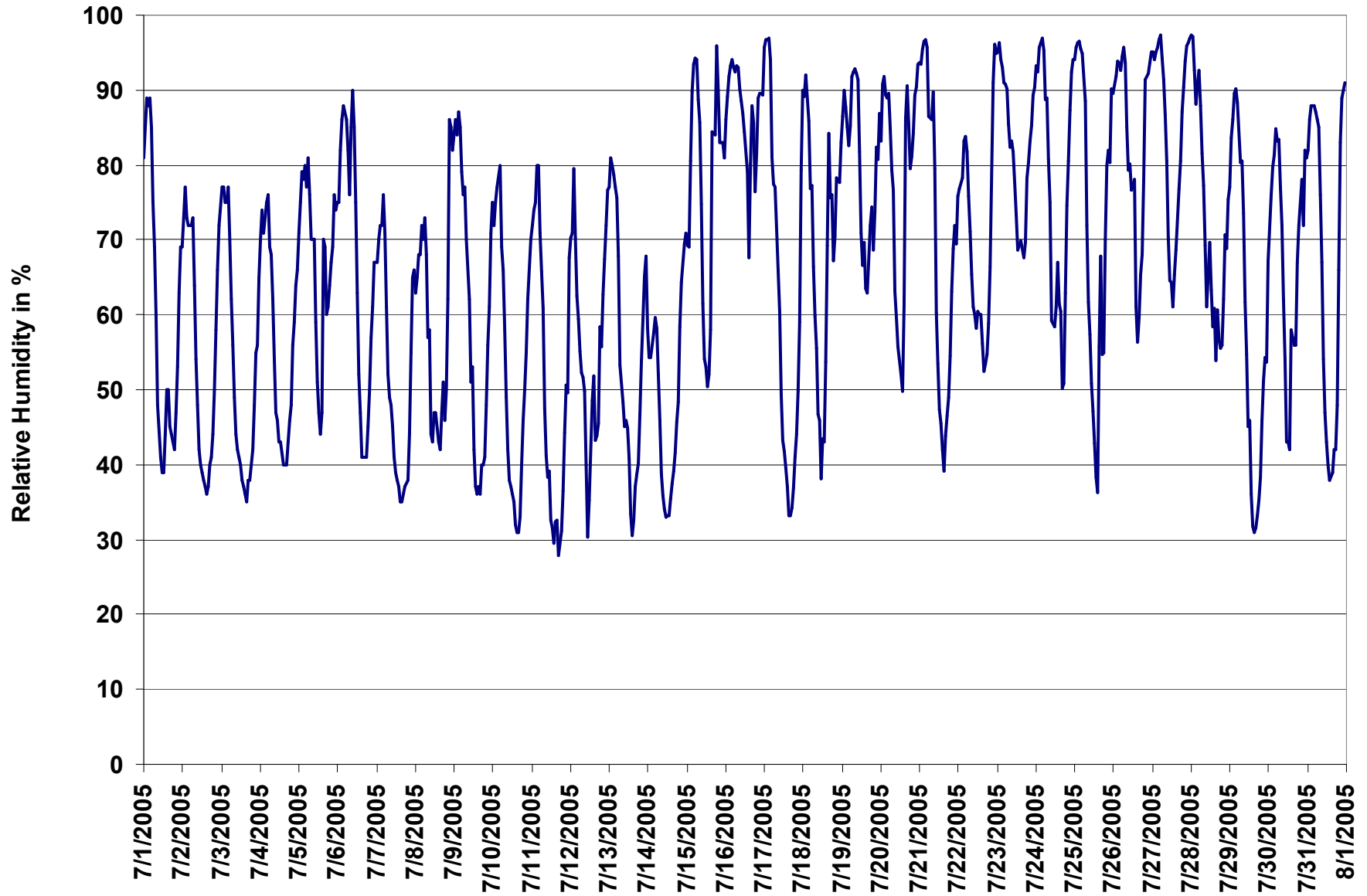


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

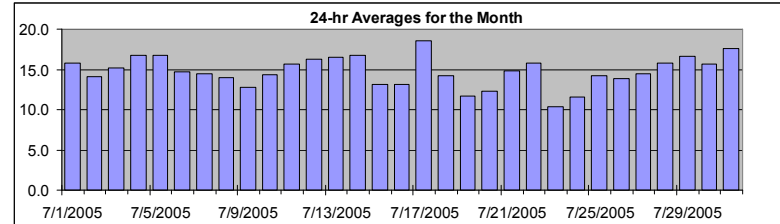
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	25.3 °C	17-Jul	15:00 16:00
Maximum 24-hr Value:	18.5 °C	17-Jul	



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
	23.8	21.5	18.3	14.5	11.2	8.6	6.4	14.8 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-05	12	11	10	10	9	10	12	15	18	20	20	21	21	20	19	19	20	20	20	21	18	14	12	11		15.8	21.2
2-Jul-05	10	9	8	9	9	10	10	12	15	16	17	18	19	19	19	19	18	18	18	17	15	13	12	10		14.1	19.4
3-Jul-05	9	9	10	10	9	11	13	14	16	17	18	19	19	20	20	20	20	19	18	18	17	15	14	13		15.2	19.6
4-Jul-05	12	11	11	11	10	10	12	13	16	18	20	20	20	20	21	22	22	22	21	21	19	18	16	16		16.7	22.0
5-Jul-05	15	14	13	13	13	14	13	15	17	18	20	21	23	23	22	18	18	19	18	18	17	16	14	14		16.8	22.6
6-Jul-05	13	14	13	13	12	13	14	14	13	13	14	15	16	18	18	18	19	18	18	17	15	13	12	11		14.7	18.7
7-Jul-05	11	10	9	9	8	10	12	14	15	16	16	18	18	18	19	19	20	19	19	18	17	14	11	11		14.5	19.5
8-Jul-05	11	11	10	10	9	10	11	13	15	16	18	18	18	18	19	19	18	17	19	19	14	9	9	9		14.0	19.0
9-Jul-05	8	8	7	6	6	7	9	10	11	14	16	15	17	18	18	18	18	17	17	16	15	13	12	9		12.7	18.2
10-Jul-05	8	9	8	7	7	9	11	13	16	17	18	18	19	19	21	21	21	19	18	17	15	14	12	10		14.3	20.7
11-Jul-05	9	9	9	7	6	8	10	13	17	19	19	19	21	22	22	21	22	22	22	20	17	15	15	11		15.7	22.4
12-Jul-05	10	10	8	9	11	14	16	17	19	19	22	24	22	20	19	21	21	21	17	18	15	13	13	12		16.2	23.9
13-Jul-05	11	10	11	11	11	12	14	18	19	20	20	20	21	22	22	21	21	20	19	18	16	14	13	12		16.5	22.2
14-Jul-05	14	15	15	13	13	14	16	17	19	19	20	20	21	21	20	20	19	19	18	17	15	13	12	12		16.7	20.6
15-Jul-05	12	12	11	11	10	11	11	12	13	15	15	16	16	17	17	16	13	13	12	13	13	12	12	11		13.1	17.0
16-Jul-05	10	10	10	10	10	10	11	11	12	13	13	13	14	16	18	16	15	16	18	16	14	13	13	12		13.2	18.1
17-Jul-05	11	10	10	10	10	14	15	15	19	20	22	23	24	25	24	25	25	25	24	23	21	19	17	14		18.5	25.3
18-Jul-05	13	13	13	13	14	13	14	16	17	18	18	19	18	19	17	14	11	12	12	15	13	10	10	9		14.2	19.2
19-Jul-05	8	8	9	9	9	9	9	9	9	10	10	12	15	16	15	16	16	15	14	15	14	12	11	10		11.6	15.8
20-Jul-05	10	9	9	9	9	9	10	12	14	16	17	18	19	19	15	10	11	12	12	12	12	11	10	9		12.2	18.7
21-Jul-05	10	10	9	8	8	8	11	11	11	14	17	19	20	20	20	21	20	20	19	19	17	16	14	14		14.8	21.4
22-Jul-05	13	13	12	11	11	11	13	15	17	18	19	20	20	20	19	19	19	19	18	17	17	14	13	13		15.8	19.9
23-Jul-05	13	10	10	10	10	9	9	10	10	10	11	12	12	12	12	12	13	12	11	10	10	9	9	7		10.4	12.8
24-Jul-05	7	6	5	4	5	6	8	9	11	13	16	16	16	15	16	17	19	18	14	13	13	11	10	9		11.5	19.1
25-Jul-05	9	8	7	7	7	8	9	14	16	17	18	20	20	21	22	18	16	18	18	16	13	13	13	12		14.2	21.9
26-Jul-05	12	11	11	10	10	10	10	11	13	14	15	16	16	15	18	19	18	18	18	16	13	13	12	12		13.8	19.4
27-Jul-05	11	12	12	11	9	9	11	13	14	15	17	18	18	19	19	18	17	17	16	15	15	15	14	13		14.4	19.2
28-Jul-05	13	12	12	12	10	10	11	13	15	18	21	17	18	19	20	21	20	21	20	20	17	15	15	13		15.8	21.0
29-Jul-05	13	11	11	10	9	9	12	13	15	18	20	22	20	22	23	23	22	22	21	20	18	16	15	14		16.6	22.8
30-Jul-05	13	12	12	12	11	11	11	13	15	17	19	21	21	22	19	19	19	19	18	16	15	15	14	14		15.7	21.7
31-Jul-05	14	14	13	13	13	13	13	14	17	19	21	22	23	23	24	24	23	23	21	19	17	15	14	14		17.6	24.0
Hourly Avg	11.1	10.6	10.2	9.9	9.7	10.3	11.7	13.2	14.8	16.2	17.6	18.3	18.8	19.2	19.2	18.9	18.4	18.3	17.7	17.1	15.3	13.6	12.6	11.6			
Hourly Max	14.7	14.8	14.6	13.4	13.8	14.1	15.9	18.1	18.8	19.9	22.2	23.9	23.8	24.5	24.4	25.3	25.1	24.7	23.9	22.8	21.4	19.3	17.1	15.8			

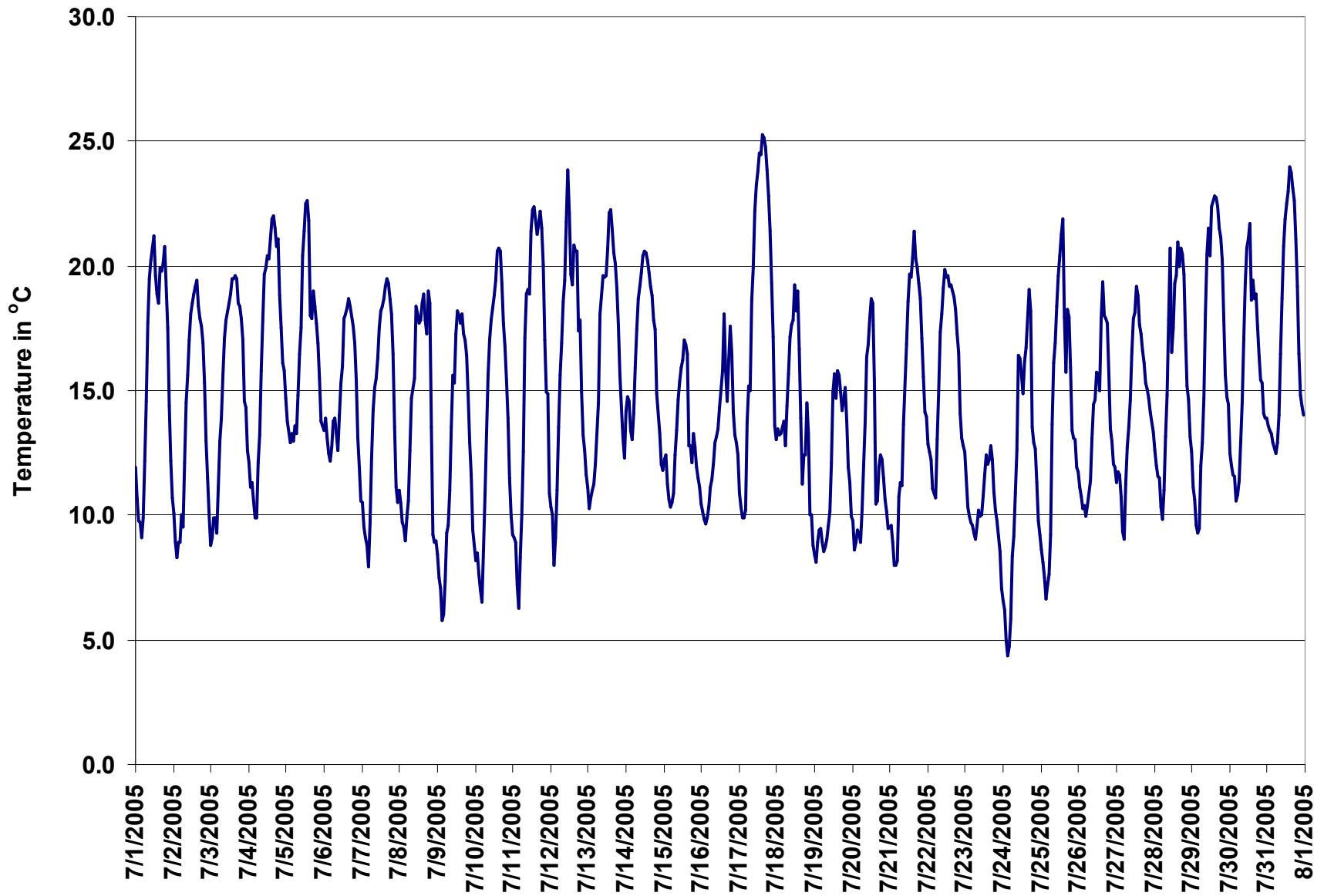


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

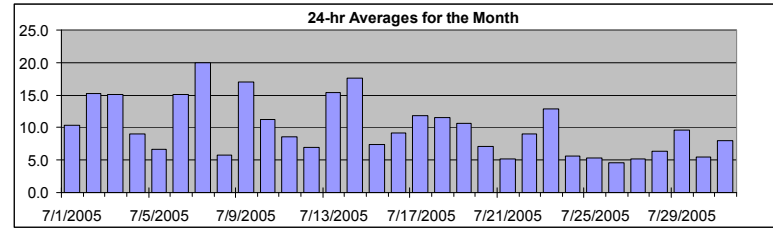
Wind Speed (WSs)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	32.0	km/hr	9-Jul	14:00 15:00
Maximum 24-hr Value:	19.9	km/hr	7-Jul	

Calm Time:	1 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.7	24.3	14.2	7.5	4.5	2.5	1.8	10.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	7	5	4	3	3	2	3	3	5	11	14	14	14	18	23	21	18	14	10	11	14	11	11	9	9	10.4	23.4
2-Jul-05	8	10	3	6	6	5	8	11	17	20	20	20	21	21	22	24	25	23	23	22	18	15	11	7	7	15.2	25.2
3-Jul-05	4	5	6	7	6	7	11	18	22	23	25	22	22	23	20	23	23	24	23	14	9	10	7	6	6	15.0	24.9
4-Jul-05	4	5	5	3	4	3	3	5	8	12	14	15	14	15	19	15	13	13	13	8	6	8	6	5	5	9.0	19.4
5-Jul-05	3	4	2	3	3	2	4	2	4	4	4	6	12	17	14	12	9	14	14	8	6	4	4	4	4	6.6	16.6
6-Jul-05	4	3	2	4	8	5	3	5	9	8	11	17	20	20	26	30	30	27	30	27	25	20	16	14	14	15.1	30.1
7-Jul-05	14	9	7	8	3	11	22	27	28	31	31	31	30	29	29	26	26	26	27	25	16	13	7	5	5	19.9	31.3
8-Jul-05	6	5	3	3	3	2	3	6	3	5	6	6	6	7	4	3	4	6	5	8	24	10	6	6	6	5.8	24.3
9-Jul-05	7	6	8	5	7	3	6	12	15	18	22	23	26	29	32	27	29	28	26	22	16	17	15	7	7	16.9	32.0
10-Jul-05	6	6	7	8	8	3	9	10	13	17	20	17	17	17	18	15	16	19	13	7	6	6	9	6	6	11.3	19.9
11-Jul-05	3	7	8	4	5	4	6	6	15	14	14	14	16	9	15	14	8	14	10	6	3	4	6	2	2	8.6	16.3
12-Jul-05	calm	4	5	3	4	2	3	4	2	6	4	5	13	18	14	11	11	11	7	5	9	8	5	5	5	6.9	18.5
13-Jul-05	6	3	3	2	2	2	4	11	18	21	23	22	22	23	29	26	28	24	24	18	17	16	15	13	13	15.4	29.0
14-Jul-05	17	18	17	14	9	6	16	20	22	22	23	26	25	27	24	23	24	23	20	13	9	10	6	7	7	17.6	26.8
15-Jul-05	6	5	4	2	3	4	5	5	8	9	12	13	13	10	10	11	12	12	3	4	8	5	5	6	6	7.4	13.4
16-Jul-05	6	7	6	5	4	5	9	11	11	13	14	15	15	15	16	16	6	6	11	8	7	6	7	5	5	9.2	15.5
17-Jul-05	3	3	2	2	3	2	4	4	7	8	17	18	16	18	17	19	20	23	21	18	15	13	19	9	9	11.8	23.2
18-Jul-05	5	7	8	9	9	8	8	14	13	18	16	22	17	12	16	15	13	15	11	9	9	8	7	7	7	11.5	21.6
19-Jul-05	6	7	10	13	15	17	16	16	17	17	14	13	11	11	8	10	8	13	6	8	5	6	4	3	3	10.6	17.3
20-Jul-05	2	3	3	3	4	4	2	4	5	8	11	12	13	12	15	16	15	13	4	4	5	5	4	4	4	7.1	15.6
21-Jul-05	4	4	3	5	5	3	2	4	3	2	3	4	4	4	6	5	8	10	11	9	6	6	7	6	6	5.2	11.3
22-Jul-05	3	3	6	6	8	5	3	4	3	9	12	12	13	14	13	12	11	11	13	12	13	10	9	10	10	9.0	14.0
23-Jul-05	10	18	17	15	14	14	12	15	16	16	17	16	17	18	17	16	12	11	10	7	5	4	4	5	5	12.8	17.9
24-Jul-05	6	5	3	2	4	3	4	5	5	5	4	6	5	9	10	9	4	7	17	8	4	7	2	2	2	5.6	16.9
25-Jul-05	2	2	2	2	3	1	2	2	4	7	7	8	9	9	7	14	8	5	4	6	7	5	8	5	5	5.3	13.7
26-Jul-05	4	3	3	4	6	4	4	4	4	3	5	7	9	7	4	4	7	3	4	7	3	3	4	3	3	4.5	8.7
27-Jul-05	4	4	3	2	4	3	2	6	6	6	6	7	8	9	12	8	4	5	5	7	6	4	4	3	3	5.2	12.0
28-Jul-05	2	3	6	7	3	4	2	3	5	6	7	10	18	15	11	10	7	5	9	7	5	2	4	4	4	6.4	17.5
29-Jul-05	4	3	2	4	4	4	4	3	5	6	6	13	12	19	24	24	24	19	16	14	8	8	5	2	2	9.6	24.2
30-Jul-05	3	5	3	5	5	4	5	8	8	5	5	10	8	4	8	6	9	6	5	5	4	4	4	4	4	5.5	10.2
31-Jul-05	6	6	5	3	5	5	2	5	4	8	11	15	19	17	13	13	10	9	6	5	7	8	5	6	6	8.0	18.5
1-hr Average	5.5	5.8	5.3	5.2	5.4	4.8	6.0	8.0	9.8	11.5	12.8	14.2	14.9	15.3	16.0	15.3	14.3	14.1	13.1	10.6	9.5	8.3	7.2	5.8	5.8		
Hourly Max	16.6	18.2	17.3	15.0	15.0	17.3	22.1	26.5	28.1	30.6	30.6	31.3	30.3	29.3	32.0	30.0	30.0	28.2	30.1	26.5	24.5	20.4	18.8	13.6	13.6		

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

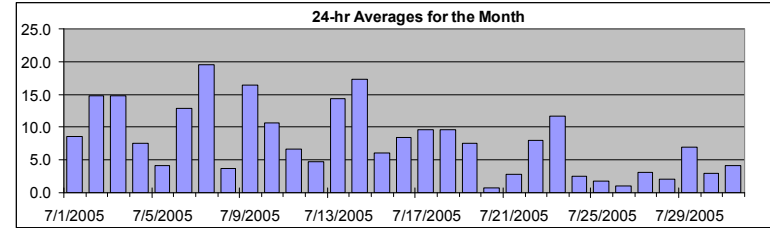
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

Maximum 1-hr Average:	32.0	km/hr	9-Jul	14:00 15:00
Maximum 24-hr Value:	19.6	km/hr	7-Jul	



Calm Time:	6 hrs	1% calms	Operational Time:	738 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.7	24.2	14.0	7.4	4.2	2.1	1.3	42.3 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-05	7	5	4	3	3	2	3	2	3	5	11	14	14	14	18	23	21	18	14	10	11	14	11	11	9	8.6	23.4
2-Jul-05	8	10	3	6	6	5	8	11	17	20	20	20	21	21	22	24	25	23	23	22	18	15	11	7	14.8	25.2	
3-Jul-05	4	5	6	7	6	7	11	18	22	23	25	22	22	23	20	23	23	24	23	14	9	10	7	6	14.8	24.9	
4-Jul-05	4	5	5	3	4	3	3	5	8	12	14	15	14	15	19	15	13	13	13	8	6	8	6	5	7.6	19.4	
5-Jul-05	3	4	2	3	3	2	4	2	4	4	4	6	12	17	14	12	9	14	14	8	6	4	4	4	4.2	16.6	
6-Jul-05	4	3	2	4	8	5	3	5	9	8	11	17	20	20	26	30	30	27	30	27	25	20	16	14	12.9	30.1	
7-Jul-05	14	9	7	8	3	11	22	27	28	31	31	31	30	29	29	26	26	26	27	25	16	13	7	5	19.6	31.3	
8-Jul-05	6	5	3	3	3	2	3	6	3	5	6	6	6	7	4	3	4	6	5	8	24	10	6	6	3.7	24.3	
9-Jul-05	7	6	8	5	7	3	6	12	15	18	22	23	26	29	32	27	29	28	26	22	16	17	15	7	16.4	32.0	
10-Jul-05	6	6	7	8	8	3	9	10	13	17	20	17	17	17	18	15	16	19	13	7	6	6	9	6	10.6	19.9	
11-Jul-05	3	7	8	4	5	4	5	5	15	13	14	13	16	4	14	11	7	13	10	6	3	4	5	1	6.7	15.7	
12-Jul-05	calm	3	2	3	4	calm	1	3	2	5	1	2	11	18	14	11	11	11	6	5	9	8	4	4	4.7	18.3	
13-Jul-05	5	2	3	2	2	2	4	10	17	21	22	22	21	22	29	26	28	24	24	18	17	16	15	13	14.4	28.5	
14-Jul-05	17	18	17	14	9	5	16	20	21	22	23	25	24	26	24	23	24	23	20	13	9	10	6	7	17.3	26.4	
15-Jul-05	6	5	4	2	3	4	5	5	8	8	12	13	12	10	9	9	8	12	3	4	8	5	5	6	6.1	13.3	
16-Jul-05	6	7	6	5	4	5	9	11	10	13	14	15	15	14	15	15	5	5	11	8	7	6	7	4	8.4	15.4	
17-Jul-05	3	3	2	2	3	2	4	4	7	8	16	18	16	17	16	19	20	23	21	18	15	13	17	8	9.6	23.2	
18-Jul-05	4	7	8	9	8	7	8	14	13	18	16	21	15	12	15	15	11	13	11	8	9	8	7	6	9.6	21.5	
19-Jul-05	6	7	10	13	15	13	16	16	17	17	14	13	10	11	7	9	4	12	6	8	5	5	3	2	7.5	17.0	
20-Jul-05	1	1	3	3	4	3	calm	3	4	7	11	11	12	12	10	15	15	13	4	4	5	4	4	2	0.7	15.4	
21-Jul-05	3	4	2	3	5	1	2	4	2	1	2	2	1	2	4	3	8	9	11	9	6	6	6	6	2.9	11.2	
22-Jul-05	3	3	6	5	8	4	1	2	3	9	12	12	13	14	13	12	11	11	13	12	12	10	9	9	8.0	13.7	
23-Jul-05	7	18	16	15	14	14	12	15	16	16	17	16	17	18	17	16	12	10	10	7	5	4	4	5	11.7	17.6	
24-Jul-05	5	4	2	1	4	3	3	5	5	4	2	5	3	7	9	7	3	6	17	8	3	7	1	2	2.5	16.5	
25-Jul-05	2	2	1	1	calm	calm	calm	1	3	7	6	8	9	9	7	14	8	5	4	4	7	5	8	5	1.7	13.7	
26-Jul-05	4	3	3	4	6	4	4	4	4	3	5	7	9	7	4	4	7	2	4	7	3	3	4	3	1.0	8.7	
27-Jul-05	4	4	3	2	4	3	2	6	6	6	6	7	8	9	8	8	4	5	5	7	6	4	4	3	3.1	8.9	
28-Jul-05	2	3	6	7	3	4	2	3	5	6	7	10	18	15	11	10	7	5	8	6	5	2	4	4	2.1	17.5	
29-Jul-05	4	3	2	4	4	4	4	3	5	6	6	13	12	19	24	24	24	19	16	14	8	8	5	2	6.9	24.2	
30-Jul-05	3	5	3	5	5	4	5	8	8	5	5	10	8	4	8	6	9	6	5	5	4	4	4	4	3.0	10.2	
31-Jul-05	6	6	5	3	5	5	2	5	4	8	11	15	19	17	13	13	10	9	6	5	7	8	5	6	4.2	18.5	
1-hr Vector	2.5	2.2	2.3	2.2	1.1	0.9	3.0	4.8	7.5	8.4	9.3	10.8	11.2	11.6	12.3	11.3	10.4	10.6	8.9	6.3	6.5	6.0	4.2	2.4			
Hourly Max	16.5	18.2	17.2	14.8	14.9	13.8	22.1	26.5	28.1	30.6	30.6	31.3	30.3	29.3	32.0	30.0	30.0	28.2	30.1	26.5	24.5	20.4	17.1	13.6			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

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
	351.1	322.4	276.6	254.0	159.9	32.7	9.1	273 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector					
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00						
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00							
1-Jul-05	254	229	115	90	145	111	183	191	249	278	296	302	289	251	237	237	238	225	223	229	262	268	260	259	250	250	250	250	250	250	
2-Jul-05	259	259	258	254	244	209	237	253	265	263	269	276	272	283	284	282	279	273	268	263	261	261	257	236	236	236	236	236	236	236	
3-Jul-05	232	258	261	274	260	249	264	279	277	276	273	278	266	266	273	267	272	271	277	286	284	297	307	249	249	249	249	249	249	249	
4-Jul-05	230	172	196	138	170	144	212	191	199	249	268	281	264	262	262	276	265	268	260	278	291	283	262	264	264	264	264	264	264	264	
5-Jul-05	299	31	149	344	93	124	178	127	209	200	175	203	255	270	274	283	289	271	254	259	246	200	89	81	81	81	81	81	81	81	
6-Jul-05	111	77	121	107	345	22	29	18	270	274	244	251	257	268	268	263	258	264	265	264	263	257	260	263	263	263	263	263	263	263	
7-Jul-05	253	260	276	235	199	237	258	265	266	264	270	268	271	270	272	276	274	260	259	261	258	256	247	223	223	223	223	223	223	223	
8-Jul-05	226	218	204	205	118	187	43	350	302	183	20	254	239	292	307	281	184	223	182	175	256	238	276	245	245	245	245	245	245	245	
9-Jul-05	204	220	250	228	235	199	246	237	253	261	267	285	274	265	269	264	263	266	268	264	258	262	259	254	254	254	254	254	254	254	
10-Jul-05	240	226	231	245	241	209	240	256	272	285	296	287	288	283	276	287	278	270	273	297	302	290	262	271	271	271	271	271	271	271	
11-Jul-05	222	245	246	164	143	157	151	194	256	267	267	242	261	318	274	278	307	257	260	257	243	314	339	151	151	151	151	151	151	151	
12-Jul-05	73	90	75	79	64	171	234	238	220	219	43	279	225	259	268	277	274	264	296	289	282	273	249	261	261	261	261	261	261	261	
13-Jul-05	262	151	125	168	109	160	213	271	277	290	280	280	284	283	277	283	271	274	264	256	258	261	265	266	266	266	266	266	266	266	
14-Jul-05	272	275	278	282	276	226	267	266	279	281	275	275	274	267	266	271	274	286	280	286	299	299	301	301	301	301	301	301	301	301	301
15-Jul-05	321	304	237	229	187	172	190	153	189	249	273	268	274	274	252	218	251	261	259	203	267	259	253	254	254	254	254	254	254	254	
16-Jul-05	250	254	260	246	250	267	295	298	302	323	325	324	316	323	326	328	344	297	321	310	306	324	322	298	298	298	298	298	298	298	
17-Jul-05	76	86	98	135	101	140	210	209	247	264	276	282	267	259	278	264	261	265	262	260	257	264	319	8	8	8	8	8	8	8	
18-Jul-05	267	236	256	271	322	329	313	290	292	289	290	286	315	341	24	16	354	305	296	302	281	279	307	301	301	301	301	301	301	301	
19-Jul-05	292	297	288	289	294	308	0	0	0	0	359	326	316	295	293	263	235	213	218	225	252	302	317	41	41	41	41	41	41	41	
20-Jul-05	11	205	61	56	40	43	167	185	129	125	134	115	108	110	207	243	323	307	351	11	356	315	305	12	12	12	12	12	12	12	
21-Jul-05	19	39	323	278	45	345	271	257	233	133	179	171	133	129	171	125	122	115	111	97	102	110	94	69	69	69	69	69	69	69	
22-Jul-05	59	48	30	26	24	11	68	25	246	59	64	85	75	72	61	69	58	46	50	38	23	342	18	35	35	35	35	35	35	35	
23-Jul-05	345	313	339	315	321	320	317	315	311	311	313	317	327	324	331	333	353	17	32	26	28	15	26	19	19	19	19	19	19	19	
24-Jul-05	4	21	249	76	74	109	160	193	222	234	313	48	130	188	225	190	183	255	275	246	190	235	213	116	116	116	116	116	116	116	
25-Jul-05	86	90	114	51	356	179	119	248	301	308	285	271	310	323	334	319	47	118	158	163	140	71	32	295	295	295	295	295	295	295	
26-Jul-05	338	44	227	96	62	198	215	98	175	136	166	159	195	263	269	283	226	129	91	96	28	353	39	351	351	351	351	351	351	351	
27-Jul-05	13	40	65	277	321	83	105	152	169	169	170	176	164	152	34	97	69	78	114	128	134	133	171	116	116	116	116	116	116	116	
28-Jul-05	104	240	261	261	146	81	108	182	213	230	248	297	256	237	223	160	57	51	60	82	323	154	269	85	85	85	85	85	85	85	
29-Jul-05	98	126	121	77	90	90	156	160	189	215	255	282	269	272	281	277	281	286	288	301	311	1	268	268	268	268	268	268	268	268	
30-Jul-05	197	172	197	204	234	220	229	246	253	228	275	301	305	213	185	277	294	300	12	51	52	83	154	154	154	154	154	154	154	154	
31-Jul-05	125	125	122	189	102	110	195	202	230	238	259	275	254	260	264	267	288	309	358	156	216	299	6	49	49	49	49	49	49	49	
Hourly Avg	271	261	263	265	308	252	254	263	265	273	278	278	273	274	274	274	277	272	273	266	270	277	293	286	286	286	286	286	286	286	

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2005 to August 1, 2005

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	56.0	34.3	14.0	9.2	8.0	4.6	3.0

Status Flag Characters

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

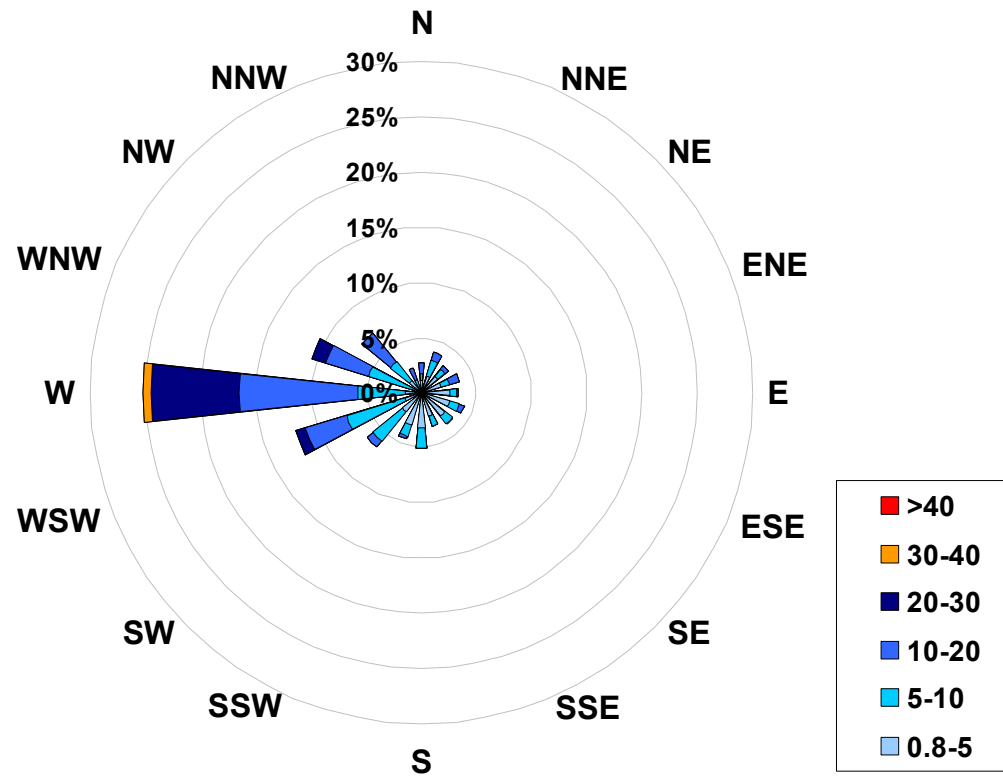
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-05	5	3	6	7	9	9	8	15	16	10	10	10	10	8	8	8	7	7	8	8	7	3	5		
2-Jul-05	2	2	14	16	5	11	7	9	9	9	9	9	9	10	10	9	9	8	8	8	8	8	9		
3-Jul-05	19	10	11	9	8	9	10	9	9	9	9	9	10	9	9	9	9	8	9	8	7	10	4		
4-Jul-05	5	12	9	5	9	10	11	9	11	9	10	10	10	10	9	10	10	9	8	8	5	6	6	3	
5-Jul-05	8	8	11	6	8	21	11	11	12	13	22	21	14	9	9	8	10	9	8	7	3	4	8	4	
6-Jul-05	6	6	7	6	9	8	14	10	8	10	8	9	8	9	9	8	9	8	8	8	8	8	8	8	
7-Jul-05	8	9	8	6	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	7	16	11	
8-Jul-05	6	4	3	5	10	15	7	12	12	17	17	13	11	9	12	18	14	9	14	9	9	9	9	9	
9-Jul-05	16	14	8	13	6	11	8	8	8	9	9	10	10	9	9	9	9	9	9	9	8	8	8	7	
10-Jul-05	7	12	5	5	4	22	8	9	10	11	10	11	10	12	10	11	11	9	9	8	6	7	4	13	
11-Jul-05	17	10	7	16	14	9	18	18	10	17	12	14	16	58	15	24	15	13	9	12	14	19	10	28	
12-Jul-05	16	22	31	23	9	28	50	26	41	25	38	54	40	10	9	12	12	13	15	13	8	8	17	45	
13-Jul-05	35	31	17	22	19	16	20	13	11	10	9	9	9	10	11	8	10	9	9	8	8	8	8	8	
14-Jul-05	8	8	8	7	9	22	18	10	11	10	11	13	13	12	11	12	9	8	8	8	9	7	10	19	
15-Jul-05	8	7	10	34	17	20	15	15	23	12	10	12	13	15	12	22	8	9	9	7	5	6	6	6	
16-Jul-05	6	5	4	5	6	7	5	5	6	5	5	5	5	9	8	7	8	12	5	5	4	4	5	17	
17-Jul-05	20	16	15	13	11	17	13	12	14	10	9	7	12	8	11	12	7	4	5	4	4	5	11	18	
18-Jul-05	39	11	13	5	22	7	11	5	7	9	8	7	13	14	13	7	16	15	6	10	5	3	7	9	
19-Jul-05	7	5	4	4	4	32	0	0	0	5	6	11	12	49	18	32	8	11	9	11	10	13	26	49.3	
20-Jul-05	34	17	14	18	18	39	41	29	21	17	11	14	13	13	17	10	8	5	23	18	8	6	25	44	44.2
21-Jul-05	40	14	28	41	13	42	32	13	32	51	40	58	50	59	61	53	21	16	7	7	5	3	6	9	61.2
22-Jul-05	23	11	6	22	6	62	62	45	39	18	13	10	11	9	7	9	6	5	4	4	5	11	8	6	62.4
23-Jul-05	16	7	17	5	5	6	6	6	7	7	6	5	6	9	6	10	12	13	8	10	11	10	9	5	16.9
24-Jul-05	7	31	33	29	6	8	12	14	25	34	53	26	28	22	20	18	40	33	8	10	25	10	45	20	52.6
25-Jul-05	18	24	40	60	44	53	57	32	23	17	25	17	15	17	20	14	9	15	7	45	8	8	11	5	59.6
26-Jul-05	7	9	7	5	9	9	16	13	13	19	12	12	10	13	19	29	13	34	24	14	15	9	8	8	34.4
27-Jul-05	15	5	4	10	8	7	7	10	9	10	13	13	9	10	44	14	8	7	9	9	9	8	4	6	43.6
28-Jul-05	9	13	5	5	19	8	15	10	10	14	21	12	9	9	9	11	12	12	15	10	13	4	17	9	21.0
29-Jul-05	11	12	15	14	8	13	14	11	18	19	14	12	9	10	10	9	10	9	8	7	7	12	10	10	19.0
30-Jul-05	13	9	11	6	13	18	9	8	8	15	17	12	20	15	9	10	8	9	5	10	4	3	6	4	20.0
31-Jul-05	8	8	9	8	6	11	11	9	14	12	10	10	9	9	11	9	9	10	15	18	7	7	8	8	18.0

Daily Maximum
16.0
16.0
19.0
12.0
22.0
14.0
16.0
18.0
16.0
22.0
57.7
54.1
34.6
21.8
33.6
16.8
19.8
38.9
49.3
44.2
61.2
62.4
16.9
52.6
59.6
34.4
43.6
21.0
19.0
20.0
18.0

Hourly Max	40	31	40	60	44	62	62	45	41	51	53	58	50	59	61	53	40	34	24	45	25	19	45	45
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for July 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	229
5	to	10	225
10	to	20	208
20	to	30	75
30	to	40	6
	>	40	0
Total Non-Zero Values			743

PEACE AIRSHED ZONE ASSOCIATION

PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for July 2005

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
43a	High Prairie	0.1	20.3	1.1	
43b	High Prairie	0.1	26.0	0.9	
44a	Peavine	N/A	19.8	0.4	
44b	Peavine	0.3	18.1	0.5	
45a	Gift Lake	0.2	16.5	0.6	
45b	Gift Lake	N/A	20.9	0.7	
49a	Grande Prairie HP	0.2	27.9	4.4	
49b	Grande Prairie HP	0.2	24.5	4.7	
1	Silver Valley	0.2	22.9	1.6	08-27-081-11 W6M
2	Bay Tree	0.1	20.8	0.6	13-16-078-13 W6M
3	Forth Creek	0.1	23.5	0.8	04-13-082-07 W6M
4	Gordondale	0.2	23.4	1.1	04-34-078-10 W6M
5	Boone Creek	0.1	15.0	0.7	01-23-076-11 W6M
7	Steeprock Creek	0.2	22.1	0.6	09-35-072-13 W6M
9	Spirit River	0.2	21.2	1.2	08-12-079-07 W6M
10	Woking	0.3	21.9	1.1	01-13-076-07 W6M
11	Webber Creek	0.2	24.6	1.3	09-36-074-09 W6M
12	Hythe	0.4	24.6	1.1	14-36-072-11 W6M
14	Sylvester	0.1	18.1	0.3	08-06-069-12 W6M
16	Beaverlodge	0.1	26.1	1.9	15-36-071-10 W6M
17	Poplar	0.3	23.7	1.0	13-06-073-08 W6M
18	Saddle Hills	0.2	21.6	0.9	04-25-074-07 W6M

Table 1. PASZA Passive Stations for July 2005 (Continued)

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
19	Wanham	0.3	26.6	0.7	16-22-077-03 W6M
20	Shaftesbury	0.1	18.7	0.8	04-03-082-23 W5M
21	Eaglesham	0.2	18.8	0.9	16-21-079-25 W5M
23	Bear Lake	0.1	22.7	1.3	15-31-072-06 W6M
24	Wembley	0.2	16.8	1.4	12-31-070-08 W6M
25	Pinto Creek	0.1	20.9	0.6	04-24-069-11 W6M
26	Flyingshot	0.2	19.9	1.2	15-36-070-07 W6M
27	Grande Prairie I	0.2	23.9	3.2	08-15-071-06 W6M
28	Clairmont Lake	0.2	22.1	1.3	09-06-073-04 W6M
29	Smoky Heights	0.3	28.5	1.2	04-06-075-02 W6M
30	Fitzsimmons	0.2	21.6	1.3	15-36-072-03 W6M
32	Gold Creek	0.4	16.4	0.9	06-33-067-05 W6M
33	Wapiti	0.2	26.3	1.2	02-25-071-03 W6M
34	Puskwaskau	0.0	19.4	0.1	15-35-074-25 W5M
35	Jean Cote	1.0	19.8	1.3	12-35-079-21 W5M
36	Guy	0.1	21.4	0.8	03-04-076-22 W5M
37	Crooked Creek	0.2	22.2	1.0	16-01-071-26 W5M
38	Karr Creek	Sample could not be collected due to accident and road closure			10-16-065-02 W6M
39	Clouston Creek	0.2	27.1	0.8	12-01-073-22 W5M
40	McLennan	0.2	21.1	1.8	03-29-077-19 W5M
41	Valleyview	0.2	26.8	0.7	09-30-069-22 W5M
42	Sunset House	0.1	24.9	0.6	05-32-070-19 W5M
43	High Prairie	0.1	23.2	1.0	16-13-074-17 W5M
44	Peavine	0.1	18.9	0.4	03-05-079-15 W5M
45	Gift Lake	0.1	18.7	0.7	10-07-079-12 W5M
46	Little Smoky	0.1	17.8	1.2	12-01-065-21 W5M
47	Kinuso	0.1	17.2	0.4	12-10-073-10 W5M
48	Deer Mountain	0.1	19.1	0.6	15-22-068-09 W5M
49	Grande Prairie HP	0.2	26.2	4.5	17-26-071-06 W6M

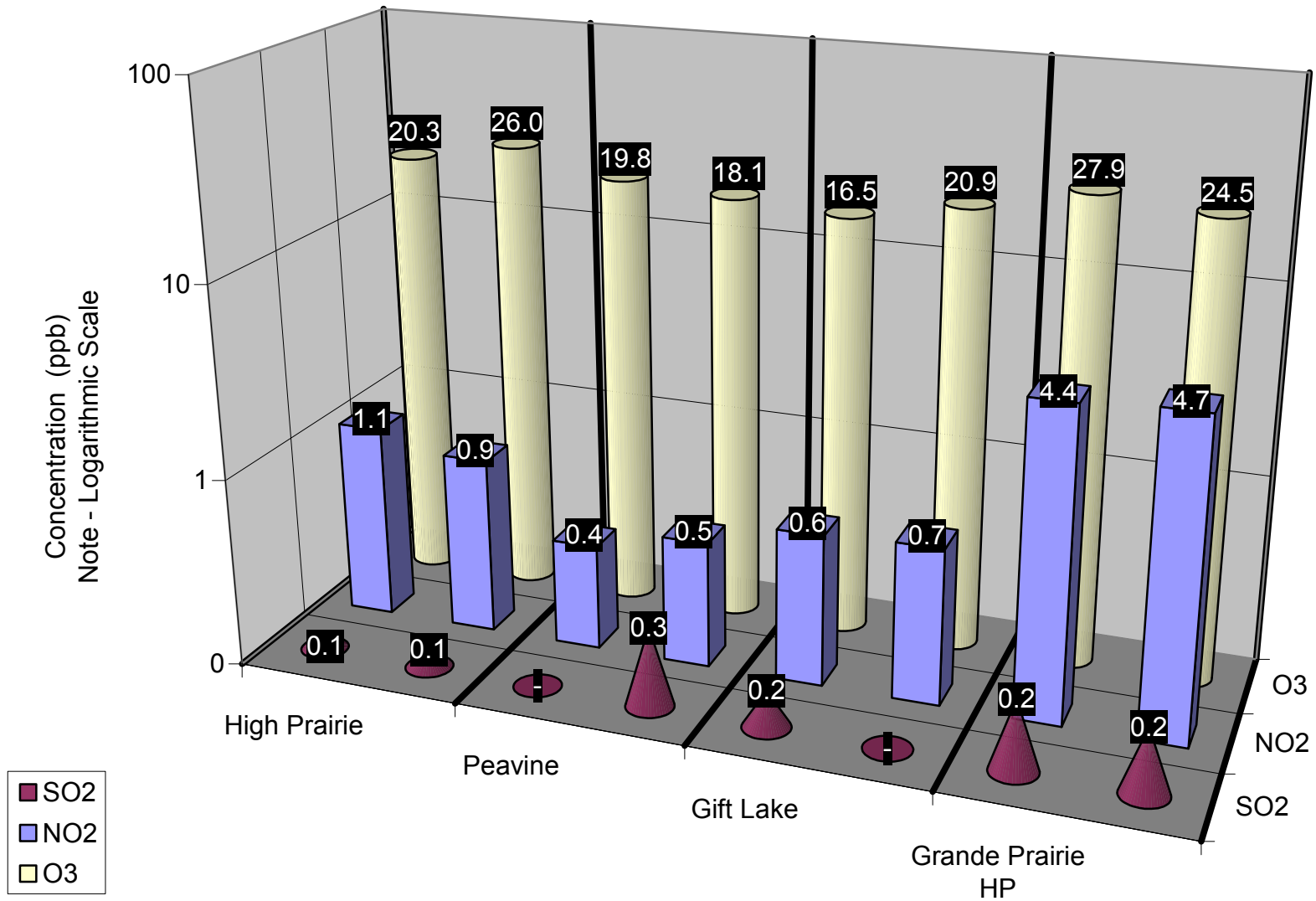


Figure 46. Duplicate Summary Chart

Table 2. Passive Summary Results for July 2005

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for July 2005 (PASZA Zone)			
Mean	0.2	21.8	1.1
Standard Deviation	0.1	3.3	0.8
Minimum	0.0	15.0	0.1
	Puskwaskau (#34)	Boone Creek (#5)	Puskwaskau (#34)
Maximum	1.0	28.5	4.5
	Jean Cote (#35)	Smoky Heights (#29)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.1	24.6	2.3
PASZA Beaverlodge passive	0.1	26.1	1.9
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.3	18.7	5.6
PASZA Grande Prairie passive	0.2	26.2	4.5

PASZA Passive SO₂ Stations - July 2005
Average Concentrations in ppb

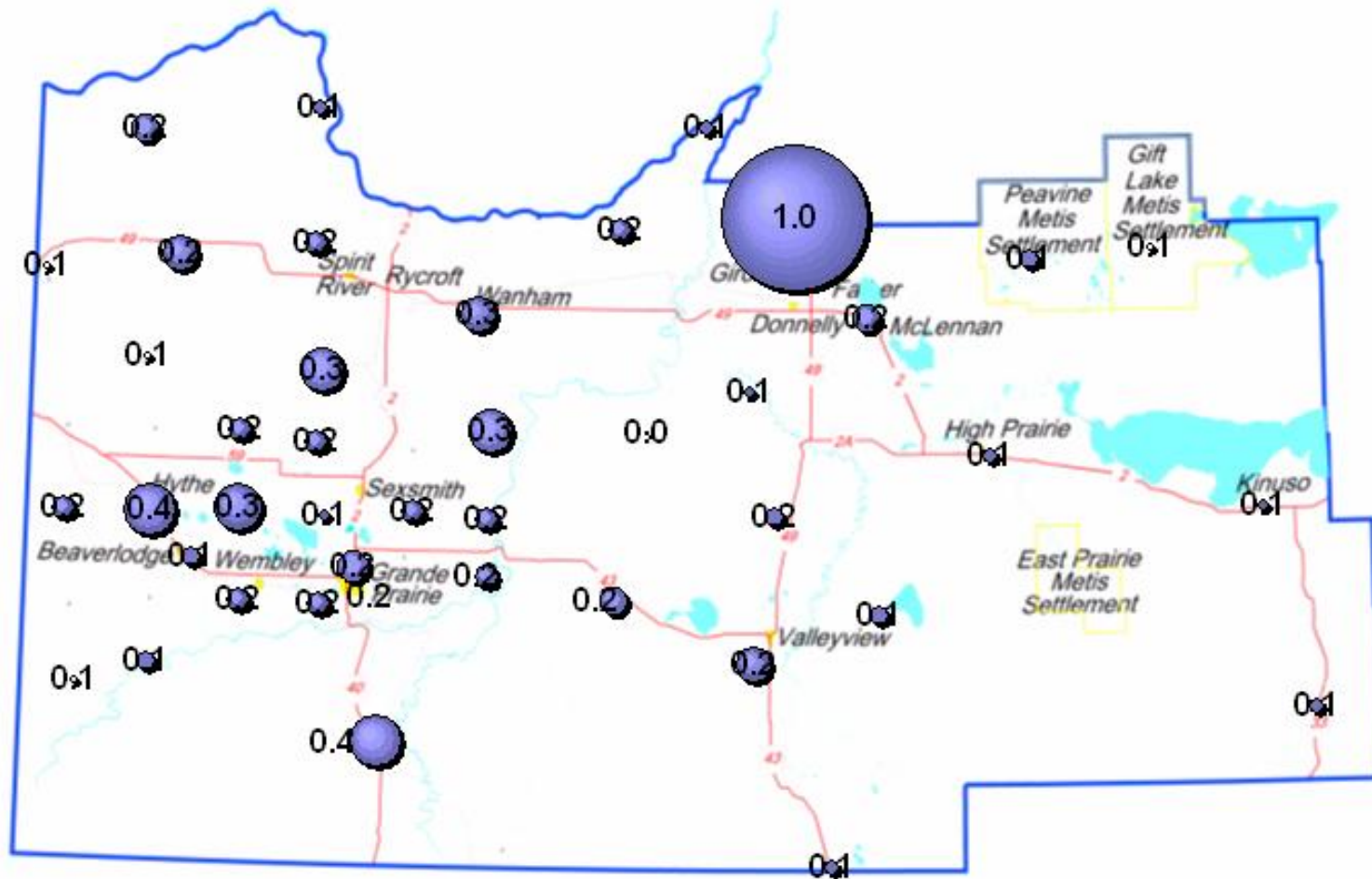


Figure 34. SO₂ Bubble Chart

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

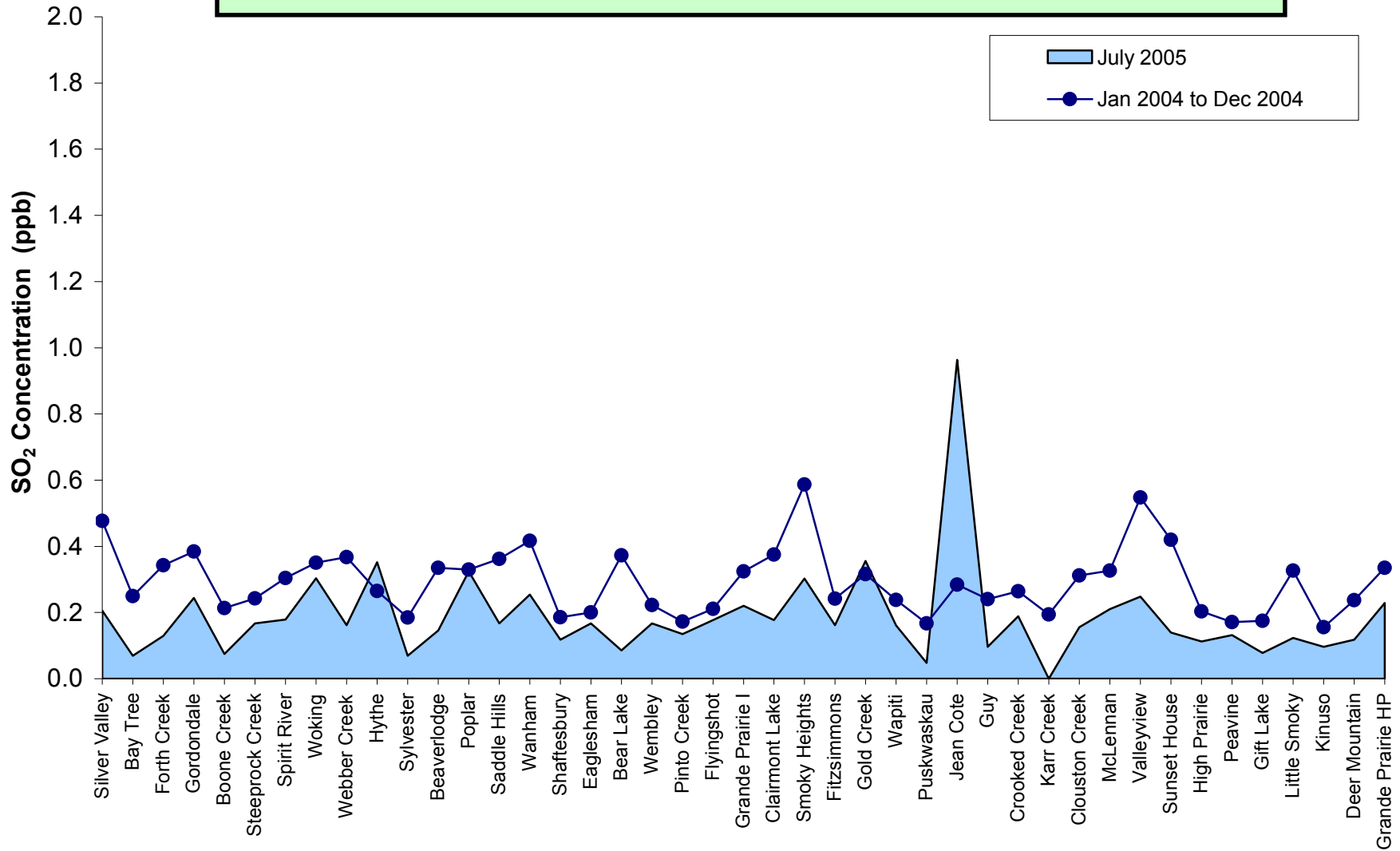


Figure 35. SO₂ Summary Chart

PASZA Passive O₃ Stations - July 2005
Average Concentrations in ppb

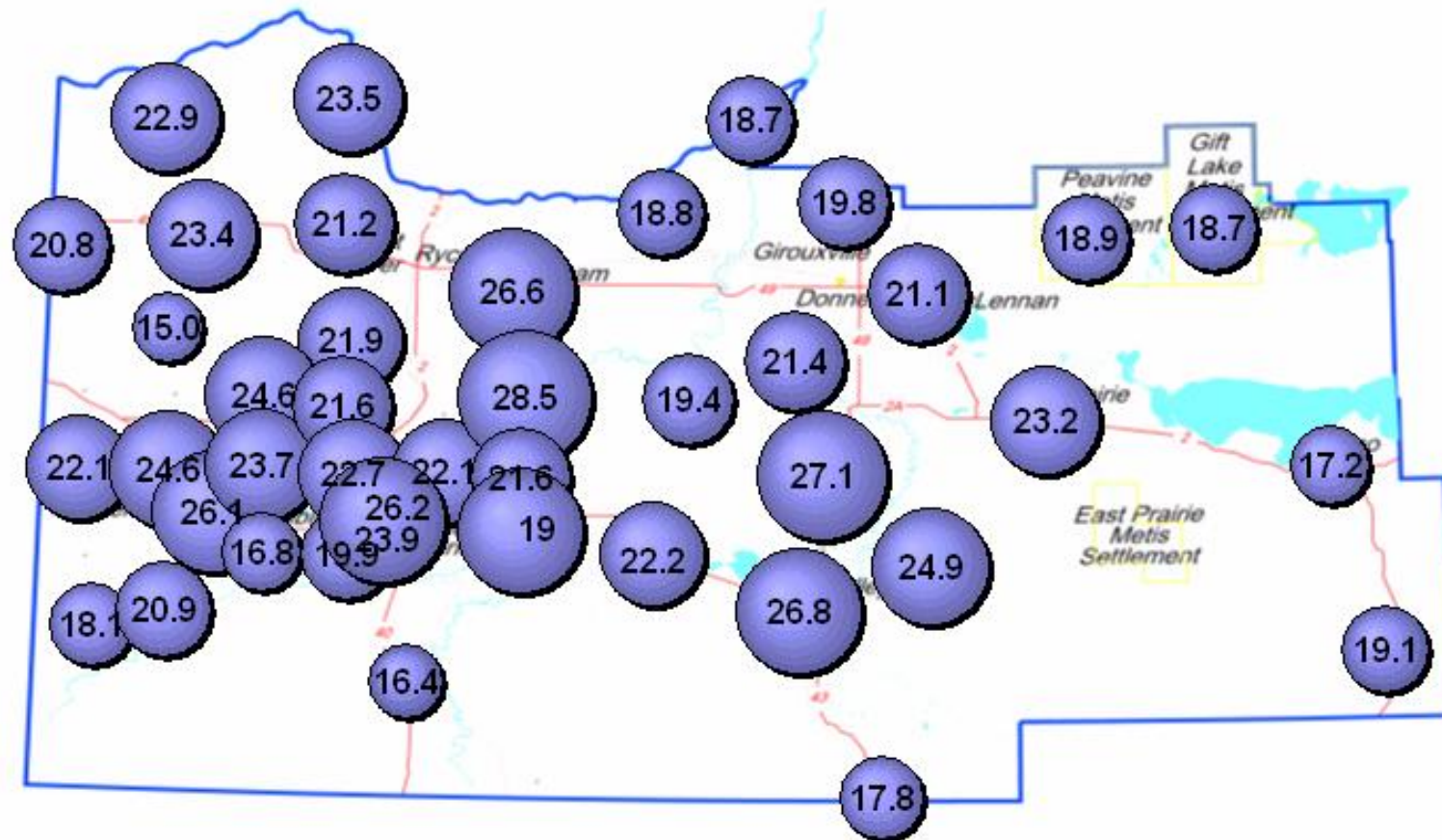


Figure 36. O₃ Bubble Chart

Alberta Ambient Air Quality Guidelines - No Annual O₃ Guideline

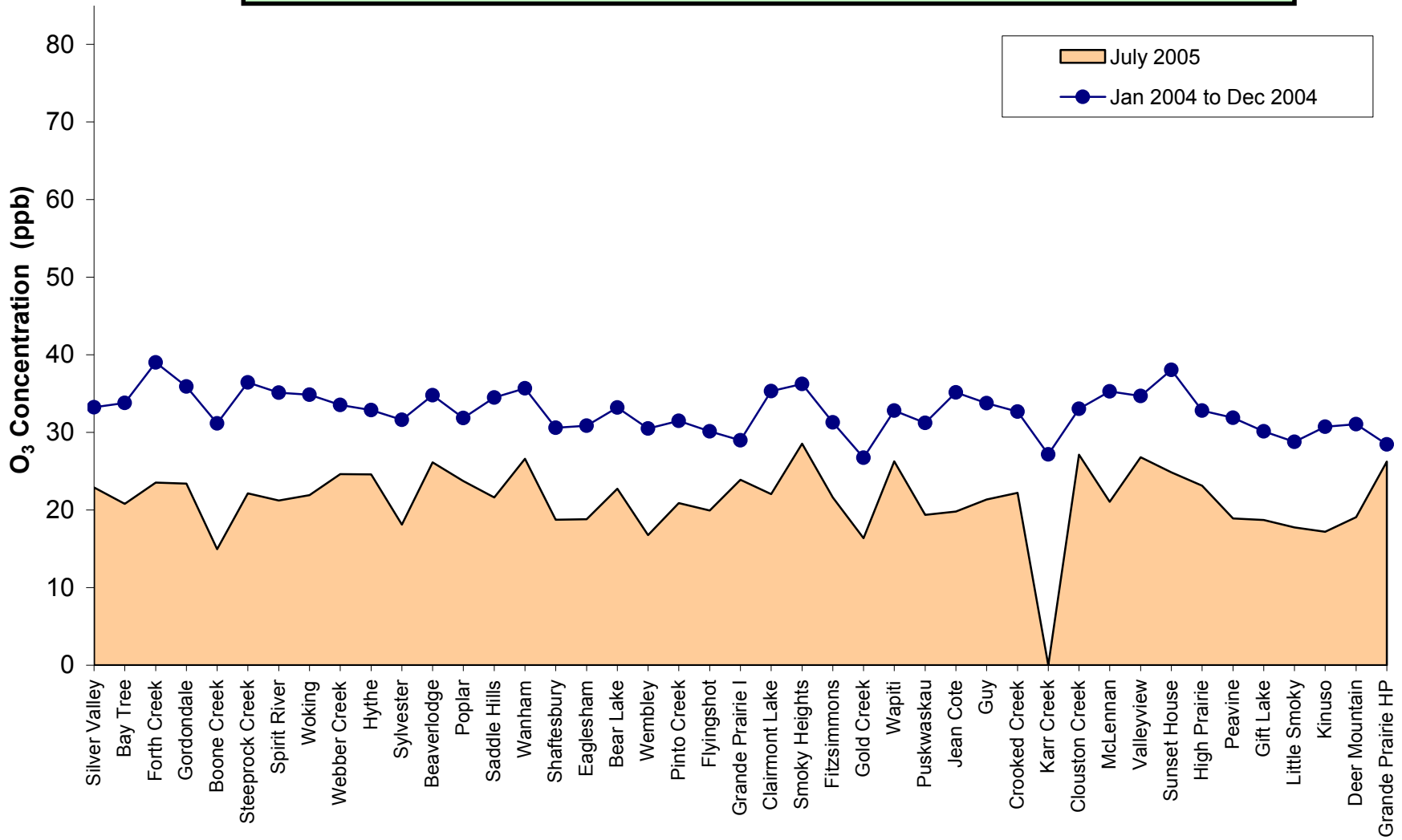


Figure 37. O₃ Summary Chart

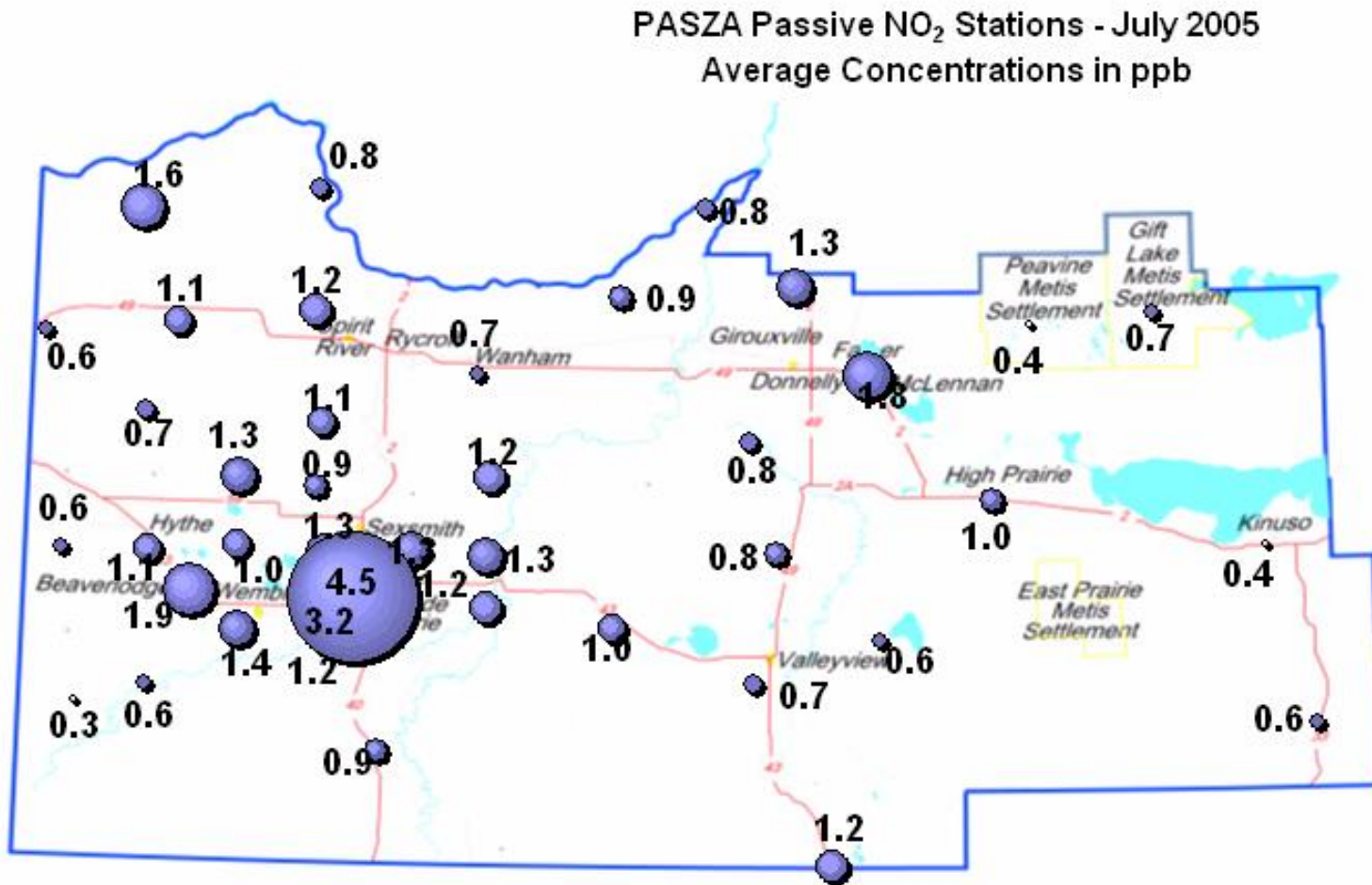


Figure 38. NO₂ Bubble Chart

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

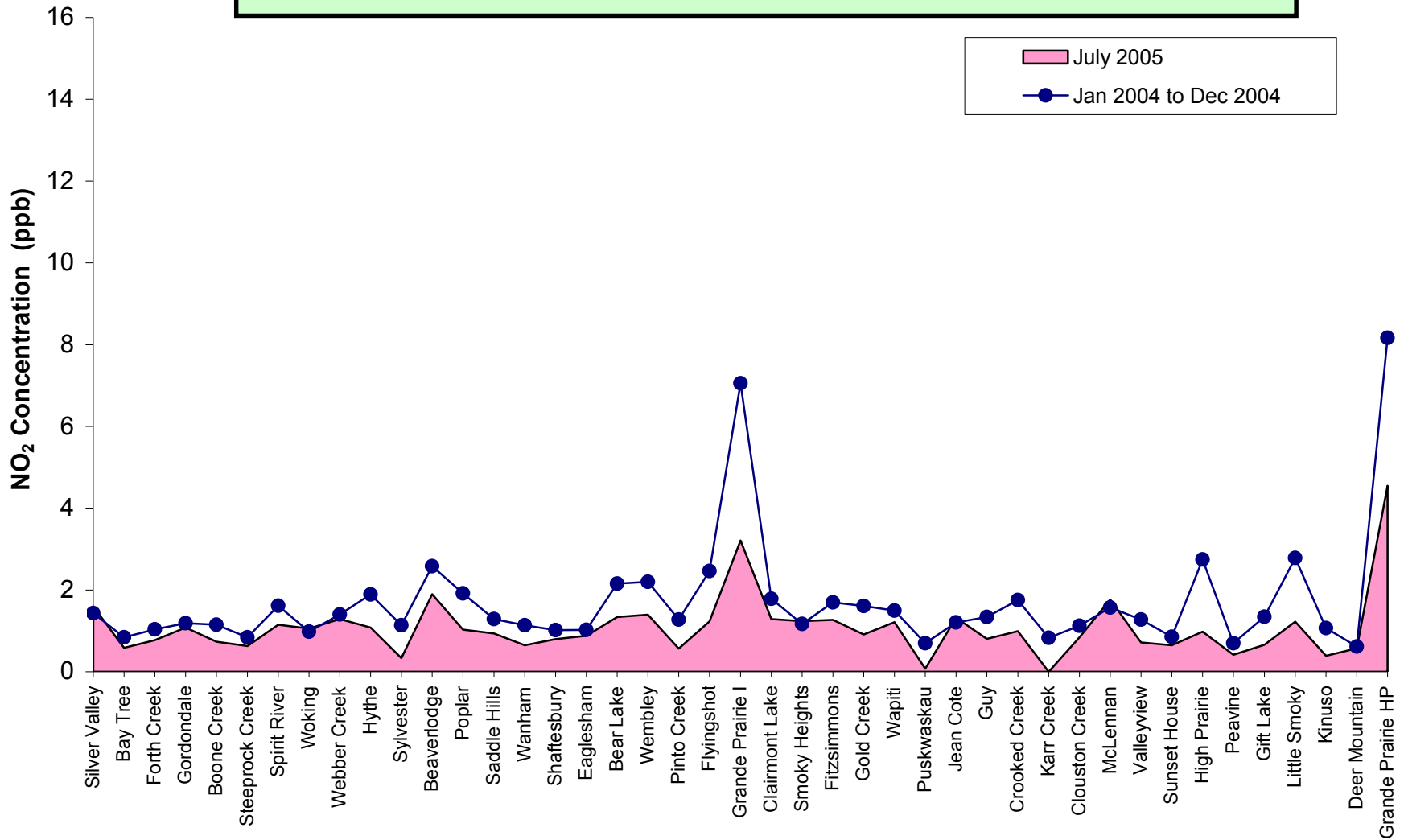


Figure 39. NO₂ Summary Chart

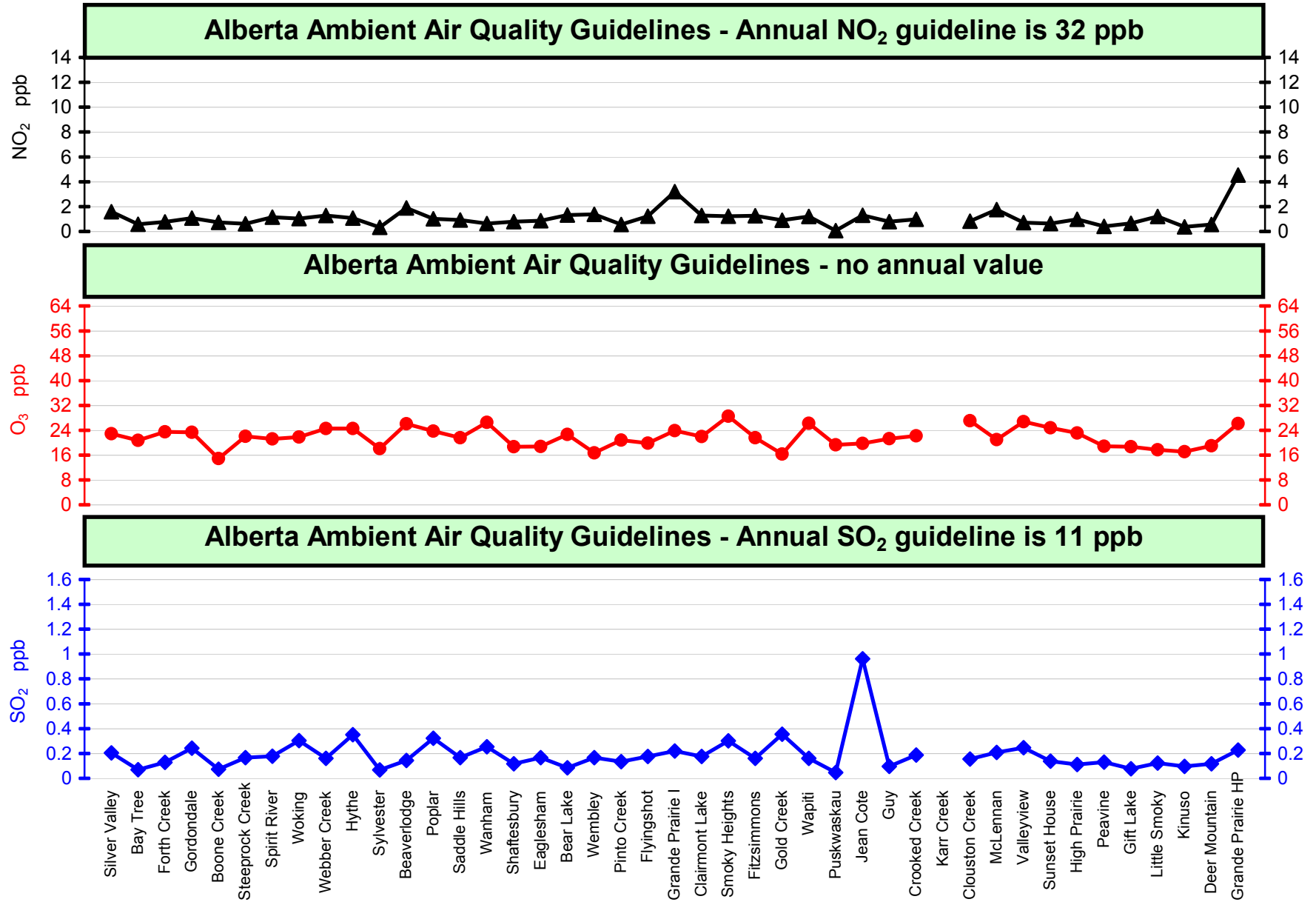


Figure 40. Overview Summary

July 2005 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

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

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, PM_{2.5}

Calibration Summary

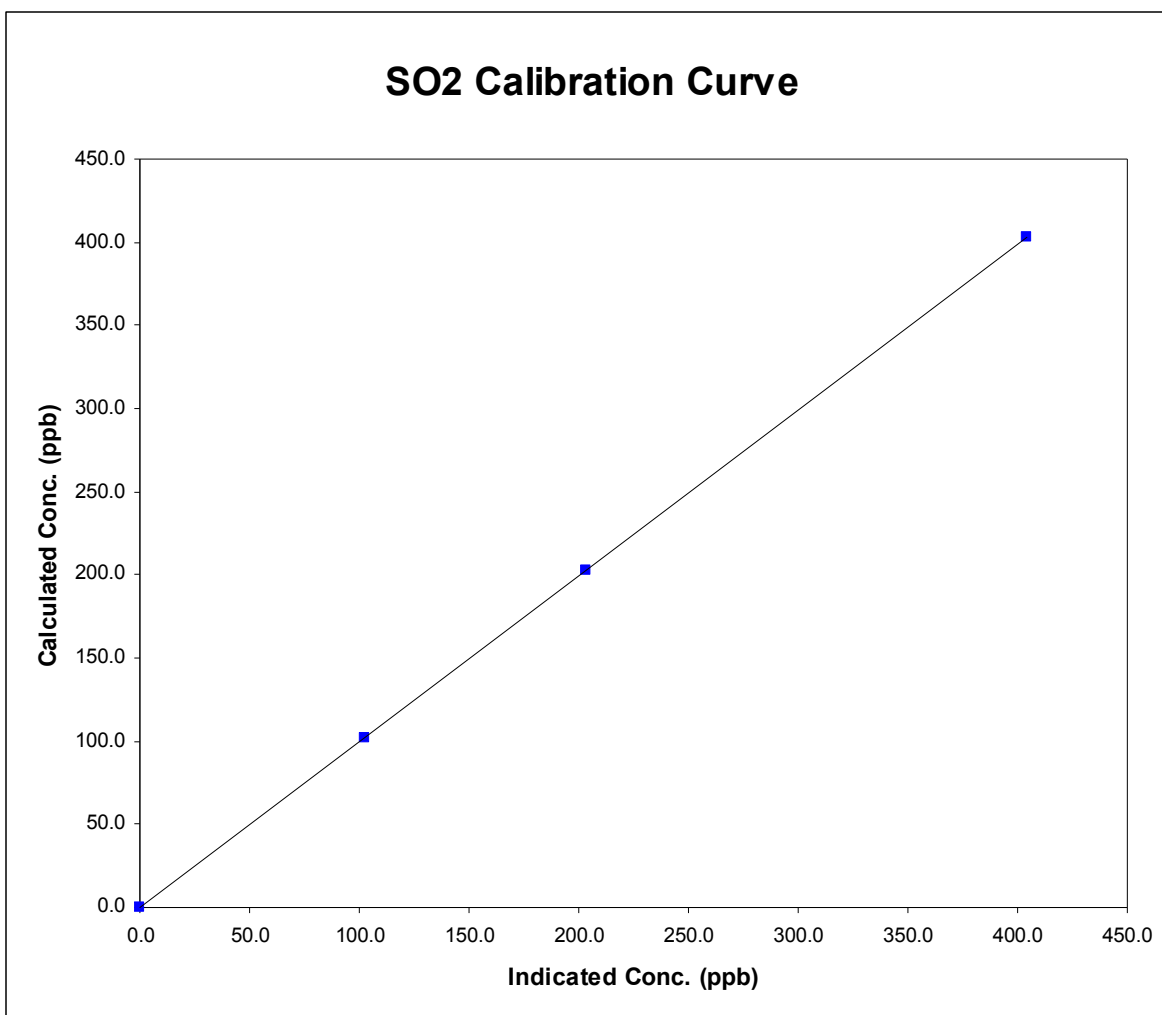
Parameter SO2Air Monitoring Network PASZA

Station Information

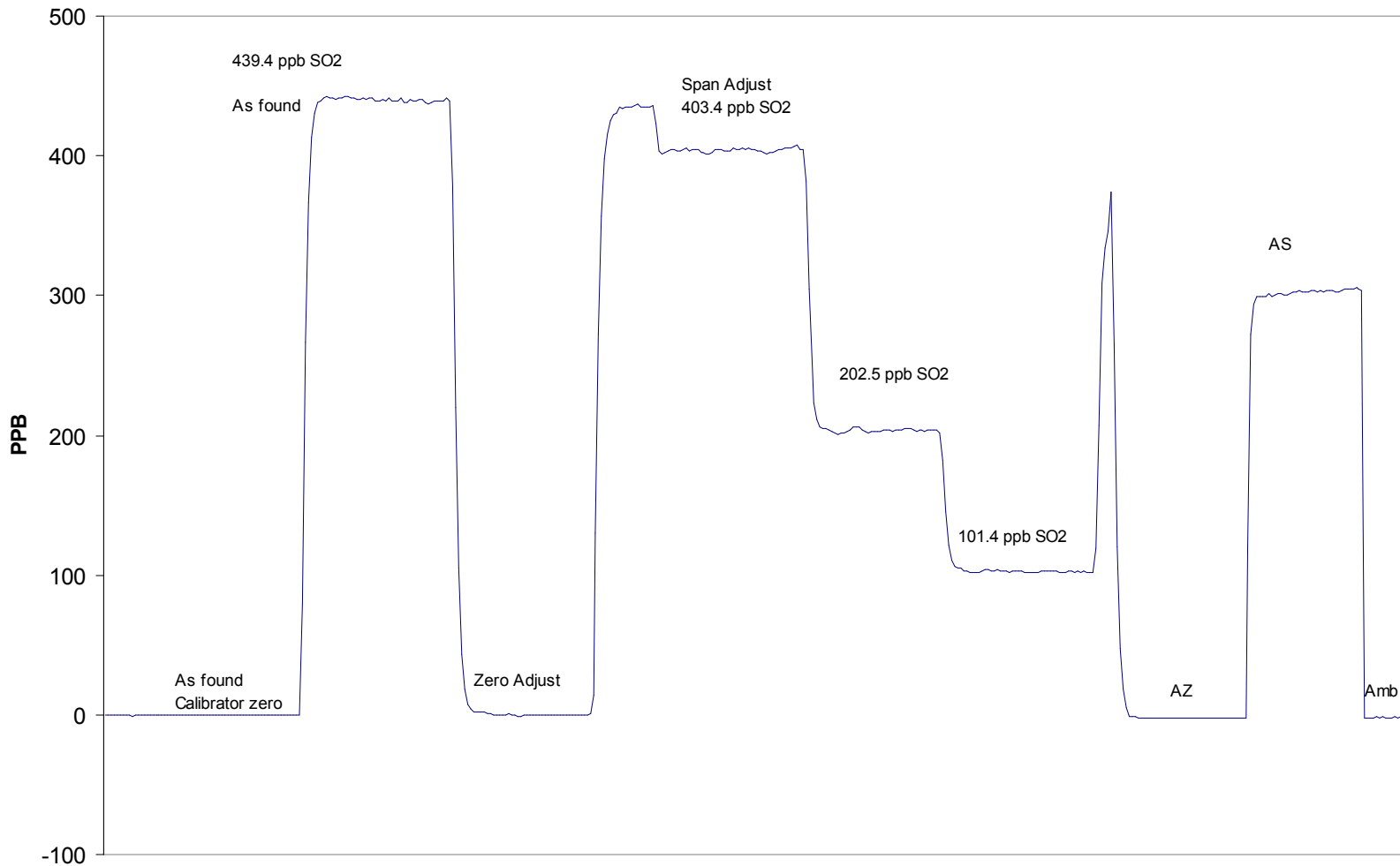
Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:48	End Time (MST)	11:20
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	-0.3	N/A		
403.4	404.1	0.9983	Correlation Coefficient	0.999992
202.5	203.6	0.9945		
101.4	102.2	0.9923		
			Slope	0.998044
			Intercept	-0.237090



SO2 Calibration



July 14, 2005

Calibration Report

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



Station Information

Calibration Date	<u>July 14, 2005</u>	Previous Calibration	<u>June 7, 2005</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
	Other: <u>Install Span/zero Board and Ribbon Cable</u>		
Start Time (MST)	<u>7:48</u>	End Time (MST)	<u>13:10</u>
Barometric Pressure	<u>0.927</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.001403	1.002140	1.000219
	Data Offset	0.199782	0.075497	0.099497
After	Data Slope	1.024118	1.003082	0.999353
	Data Offset	-1.724540	-1.104197	-2.411468
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	6.3	ppb	7.8	mV
NOx background	6.5	ppb	8.2	mV
NO coefficient	1.058		0.939	
NOx coefficient	1.002		1.002	
Chamber Temp	49.9	Deg C	49.6	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	214.9	mm Hg	199.2	mm Hg

Notes: Zero and Span Adjustment made.

Calibration Report

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



Station Information

Calibration Date: July 14, 2005 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	0.0	0.1	0.0	N/A	N/A
1	4993	39.97	401.1	399.5	1.6	400.3	399.2	1.1	1.0019	1.0006
2	4993	19.98	201.3	200.5	0.8	202.6	208.9	0.5	0.9936	0.9598
3	4993	9.99	100.8	100.4	0.4	102.5	102.3	0.2	0.9833	0.9815
AFZ	4993	0.00	0.0	0.0	0.0	1.3	0.5	0.7	0.0000	0.0000
AFS	4993	39.97	401.1	399.5	1.6	452.0	450.7	1.3	0.8873	0.8863
Average Correction Factor									0.9930	0.9806

As Found Concentrations: NO_x= 450.8 NO= 450.3 As Found Percent Change NO_x= 12.4% NO= 12.7%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

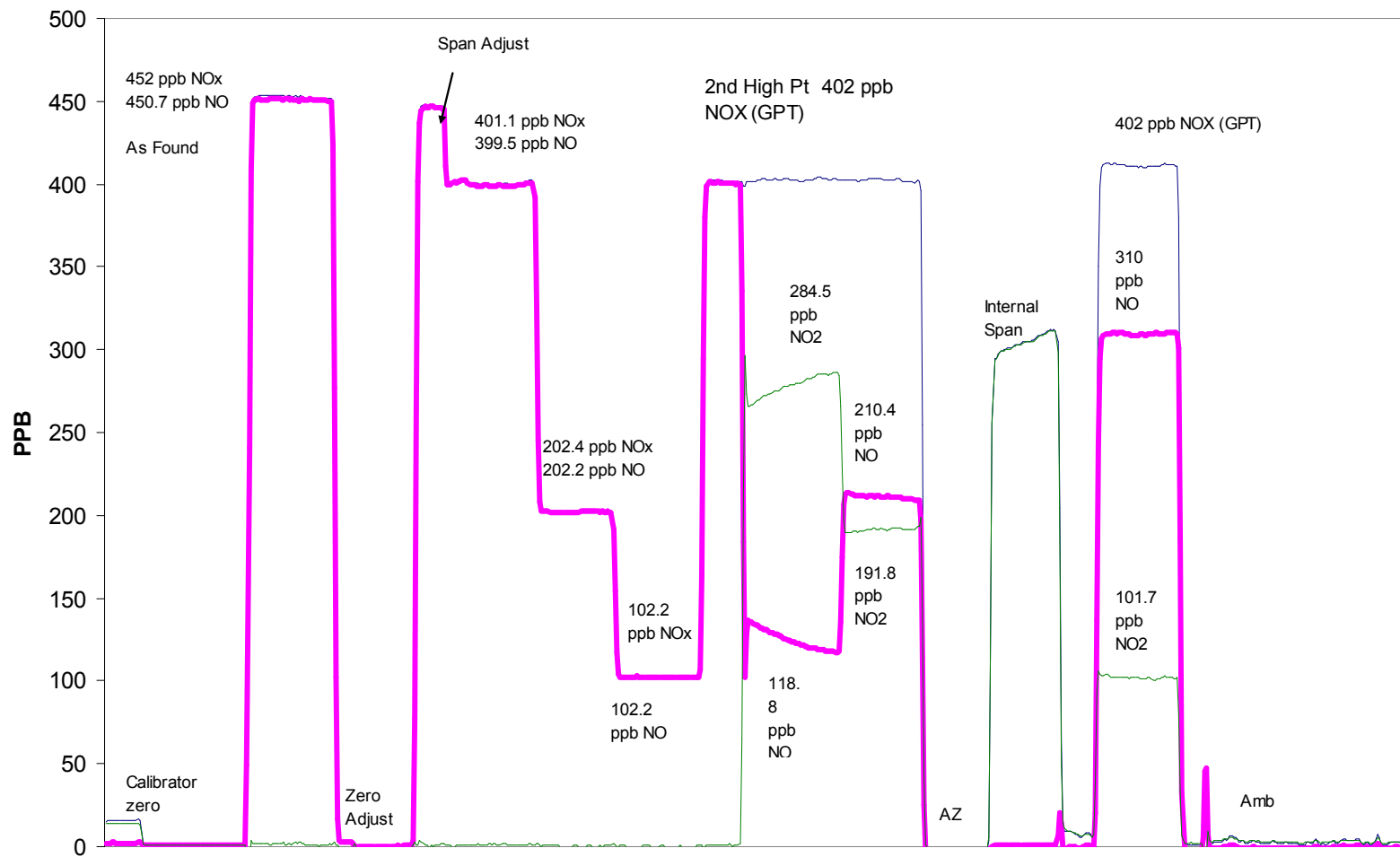
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	405.5	398.2	7.3	401.9	400.9	1.0	1.0089	0.9933	N/A	N/A
300	405.5	116.3	289.2	403.0	118.8	284.5	1.0062	0.9791	1.0163	98.4%
200	405.5	207.9	197.6	402.0	210.4	191.8	1.0087	0.9879	1.0303	97.1%
100	405.5	307.2	98.3	411.1	309.8	101.7	0.9865	0.9916	0.9667	103.4%
Average Correction Factor							1.0005	0.9862	1.0045	99.6%

AIC Data

	Previous calibration				Current calibration			
Parameter	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.1	0.2	0.1	ppb	307.5	312.9	-1.9	ppb
Auto span	NA	NA	NA	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



July 14, 2005

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA

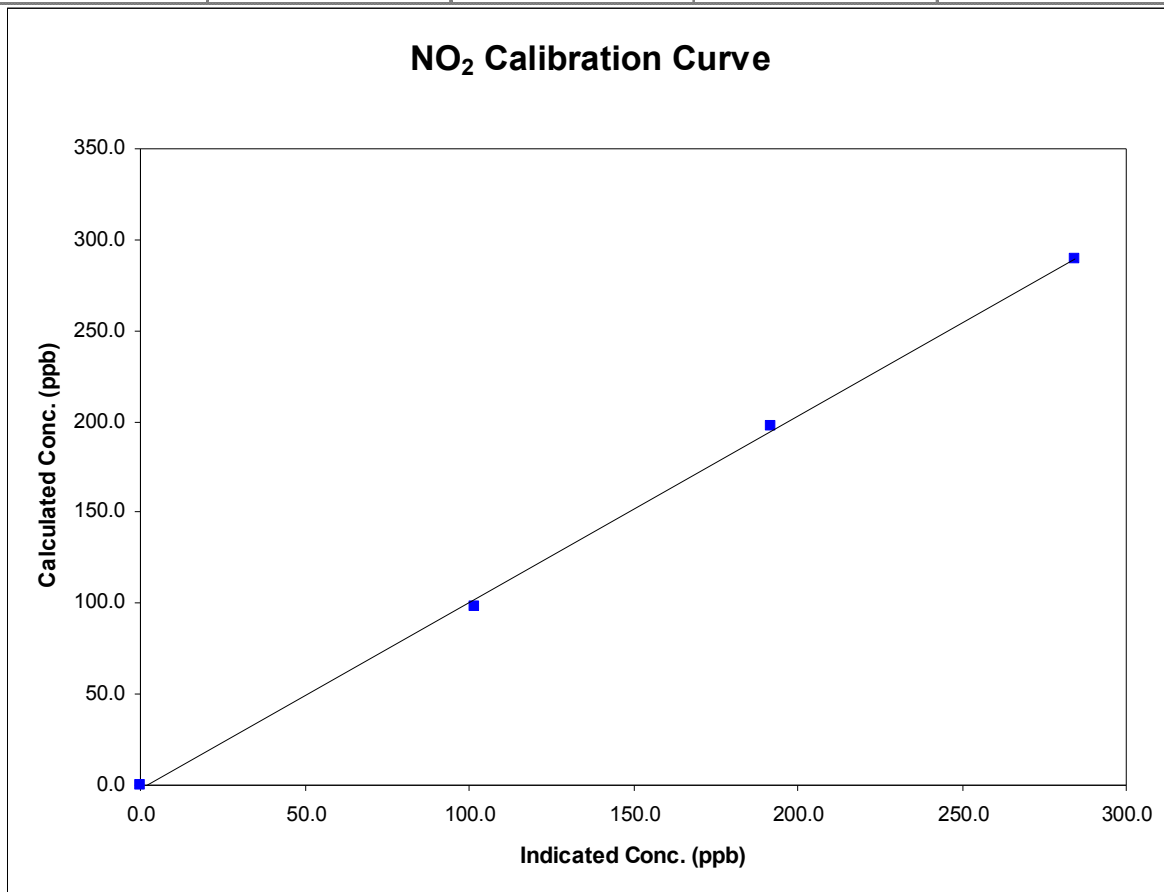


Station Information

Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:48	End Time (MST)	13:10
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		
289.2	284.5	1.0163	Correlation Coefficient	0.999391
197.6	191.8	1.0303		
98.3	101.7	0.9667	Slope	1.024118
			Intercept	-1.724540



Calibration Summary

Parameter NO_xAir Monitoring Network PASZA

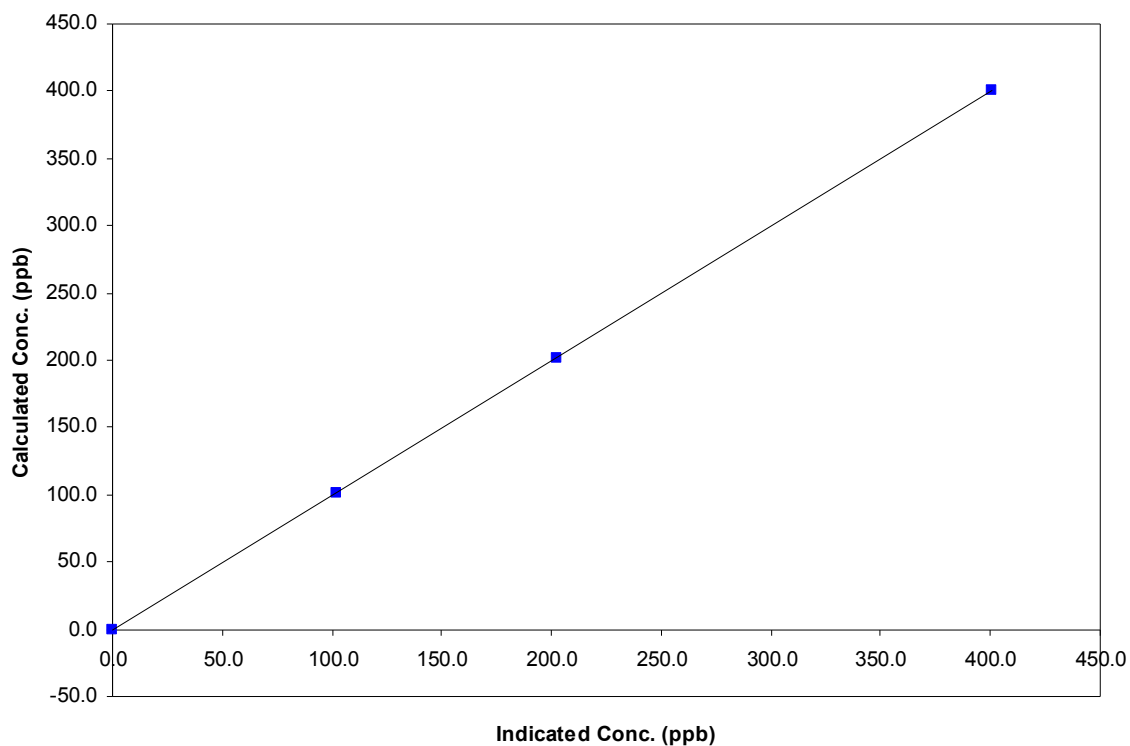
Station Information

Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:48	End Time (MST)	13:10
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		
401.1	400.3	1.0019	Correlation Coefficient	0.999965
201.3	202.6	0.9936		
100.8	102.5	0.9833	Slope	1.003082
			Intercept	-1.104197

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

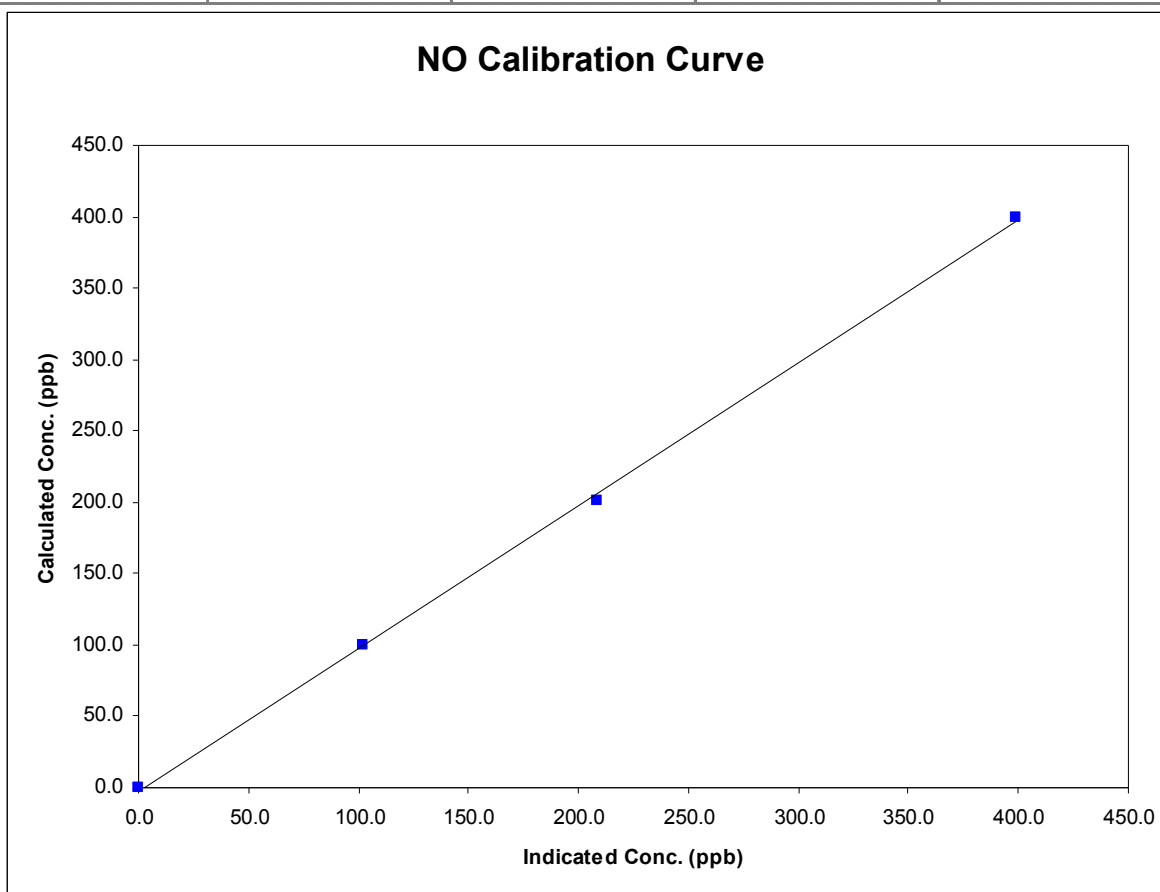


Station Information

Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:48	End Time (MST)	13:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
399.5	399.2	1.0006	Correlation Coefficient	0.999443
200.5	208.9	0.9598		
100.4	102.3	0.9815	Slope	0.999353
			Intercept	-2.411468



Calibration Summary

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

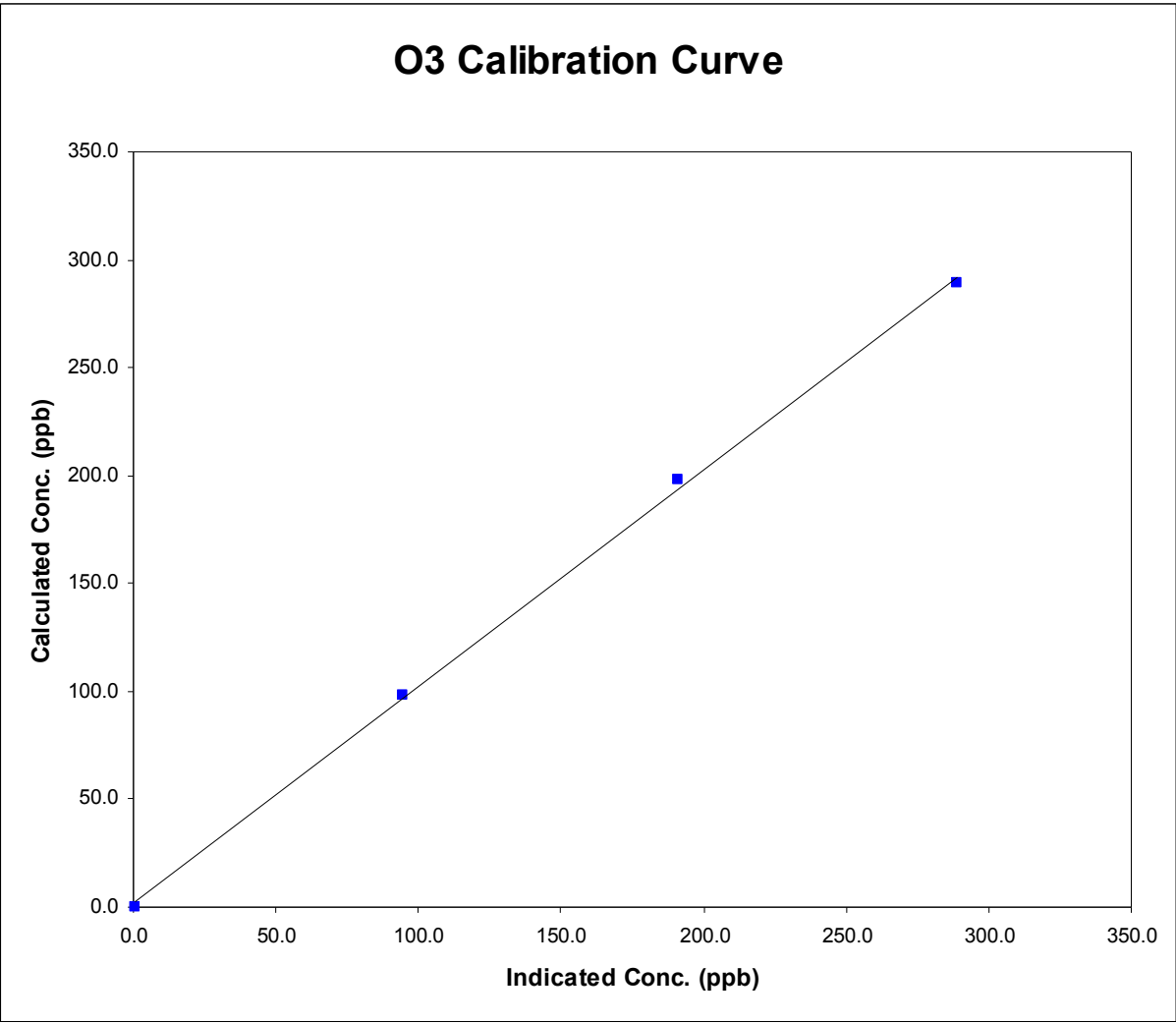


Station Information

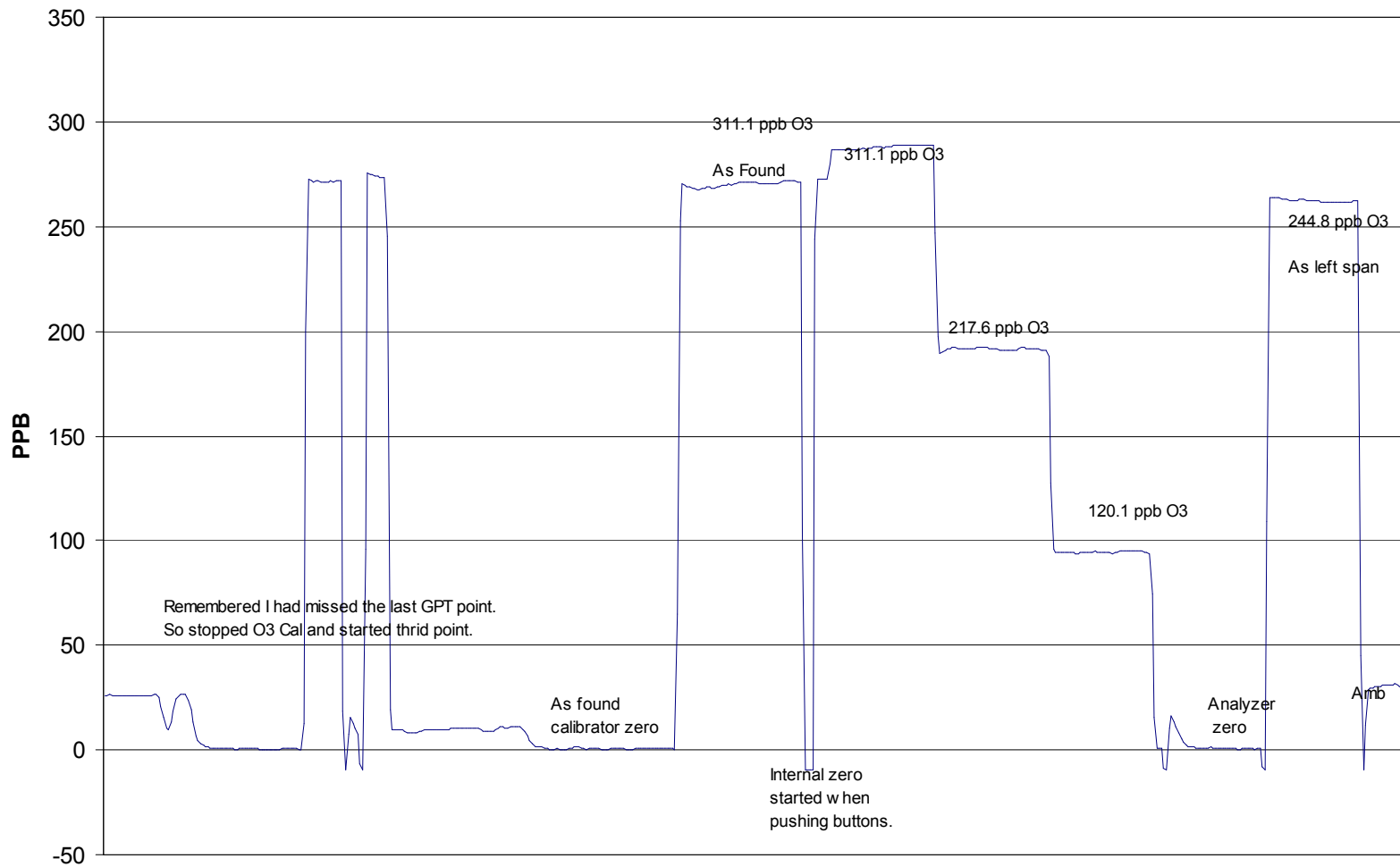
Calibration Date	<u> </u> July 14, 2005 <u> </u>	Previous Calibration	<u> </u> June 7, 2005 <u> </u>
Station Number	<u> </u> 1 <u> </u>	Station Location	<u> </u> Muskoseepi Park <u> </u>
Start Time (MST)	<u> </u> 13:00 <u> </u>	End Time (MST)	<u> </u> 15:10 <u> </u>
Analyzer make/model	<u> </u> API Model 400 <u> </u>	Analyzer serial #	<u> </u> 383 <u> </u>

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	0.8	NA		
289.0	288.6	1.0013	Correlation Coefficient	0.999371
197.6	191.3	1.0330		
98.3	94.7	1.0381		
			Slope	1.006241
			Intercept	1.478082



O3 Calibration



July 14, 2005

Calibration Report

Parameter CO
 Air Monitoring Network PASZA



Station Information

Calibration Date	<u>July 15, 2005</u>	Previous Calibration	<u>June 7, 2005</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>9:36</u>	End Time (MST)	<u>12:52</u>
Barometric Pressure	<u>0.923 ATM</u>	Station Temperature	<u>20.0 Deg C</u>
Calibrator	<u>Enviroics 6100</u>	Serial Number	<u>3016</u>
Cal Gas Conc	<u>3000 ppm</u>	Cal Gas Expiry Date	<u>AUG 28/05</u>
		Cal Gas Cylinder #	<u>AAL20565</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>1</u>
DACS voltage range	<u>0 - 1 volt</u>	DACS channel #	<u>9</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>1.004957</u>	Calculated slope	<u>1.004134</u>
Calculated intercept	<u>0.418846</u>	Calculated intercept	<u>0.393082</u>
Analyzer make	<u>TEI Model 48C</u>	Analyzer serial #	<u>508011062</u>

	before		after	
Concentration range	<u>0 - 25</u>	<u>ppm</u>	<u>0 - 25</u>	<u>ppm</u>
CO span setting	<u>1.018</u>		<u>1.018</u>	
CO zero setting	<u>0.429</u>		<u>1.133</u>	
Sample pressure	<u>677.8</u>	<u>mm Hg</u>	<u>675.8</u>	<u>mm Hg</u>
Sample Flow	<u>1.067</u>	<u>LPM</u>	<u>1.068</u>	<u>LPM</u>

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)
4993	0.00	0.00	-0.35	N/A
4993	39.97	23.82	23.37	1.0194
4993	19.96	11.95	11.43	1.0447
4993	9.97	5.98	5.56	1.0755
4993	0.00	0.00	0.35	As Found Zero
4993	39.97	23.82	24.89	As Found Span
Average Correction Factor				1.0465

Calculated value of As Found Response: 25.079 ppm Percent Change of As Found: -5.3%

	before calibration		after calibration	
Auto zero	<u>0.13</u>	<u>ppm</u>	<u>0.05</u>	<u>ppm</u>
Auto span	<u>20.13</u>	<u>ppm</u>	<u>19.82</u>	<u>ppm</u>

Notes: _____

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter CO
 Air Monitoring Network PASZA

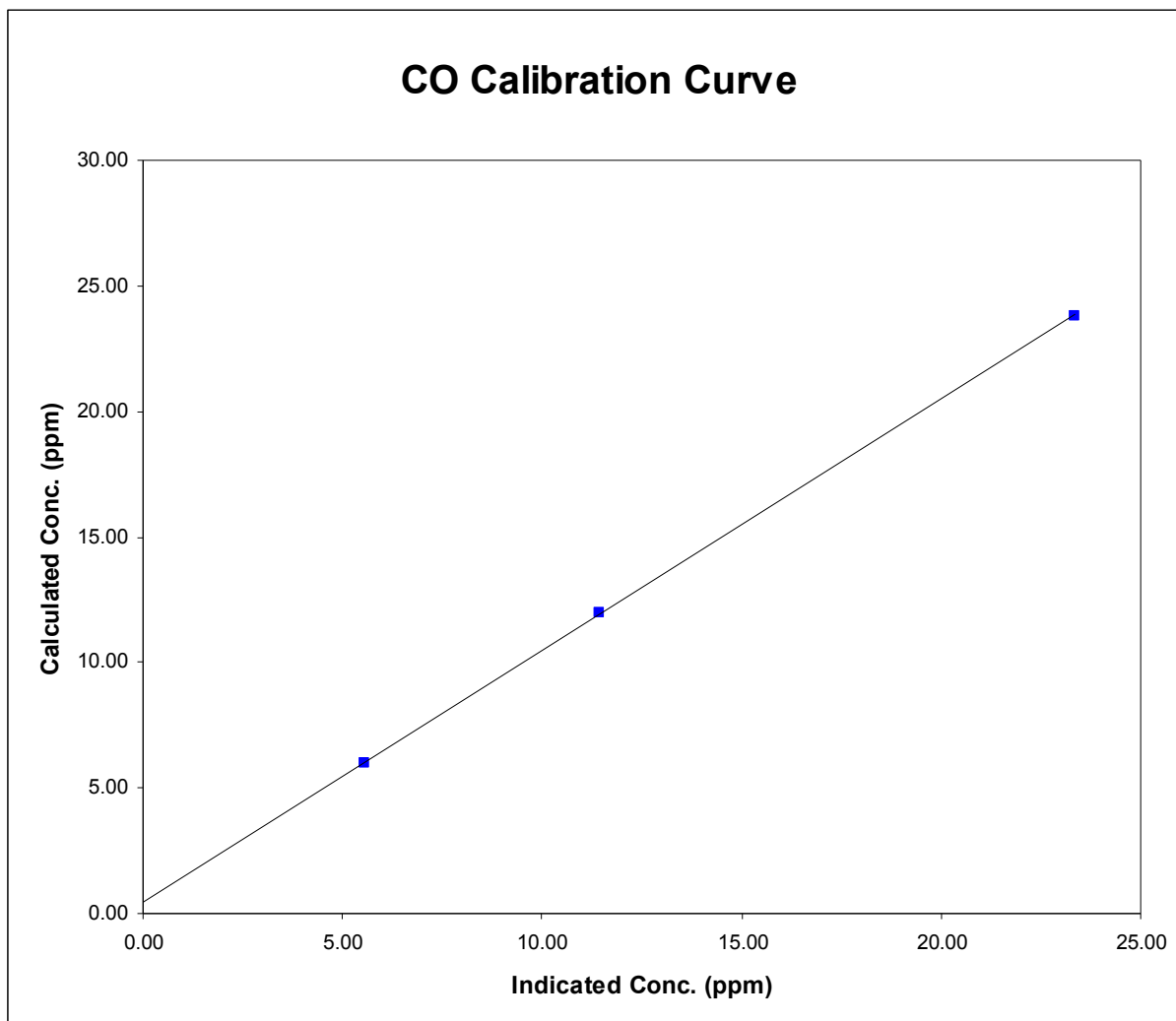


Station Information

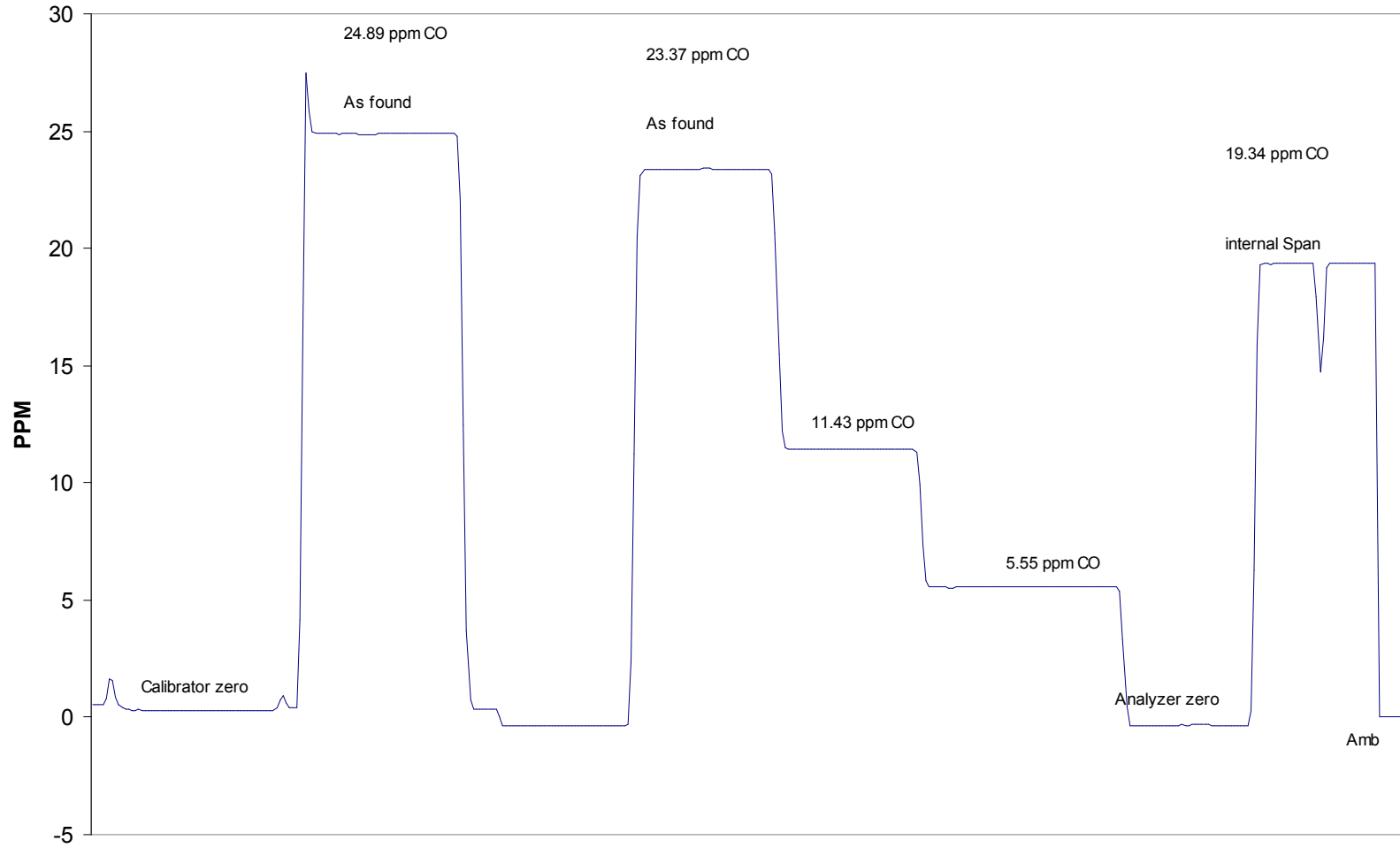
Calibration Date	July 15, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:36	End Time (MST)	12:52
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.000	-0.353	N/A		
23.825	23.371	1.0194	Correlation Coefficient	0.999975
11.945	11.433	1.0447		
5.978	5.559	1.0755	Slope	1.004134
			Intercept	0.393082



CO Calibration



July 15, 2005

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

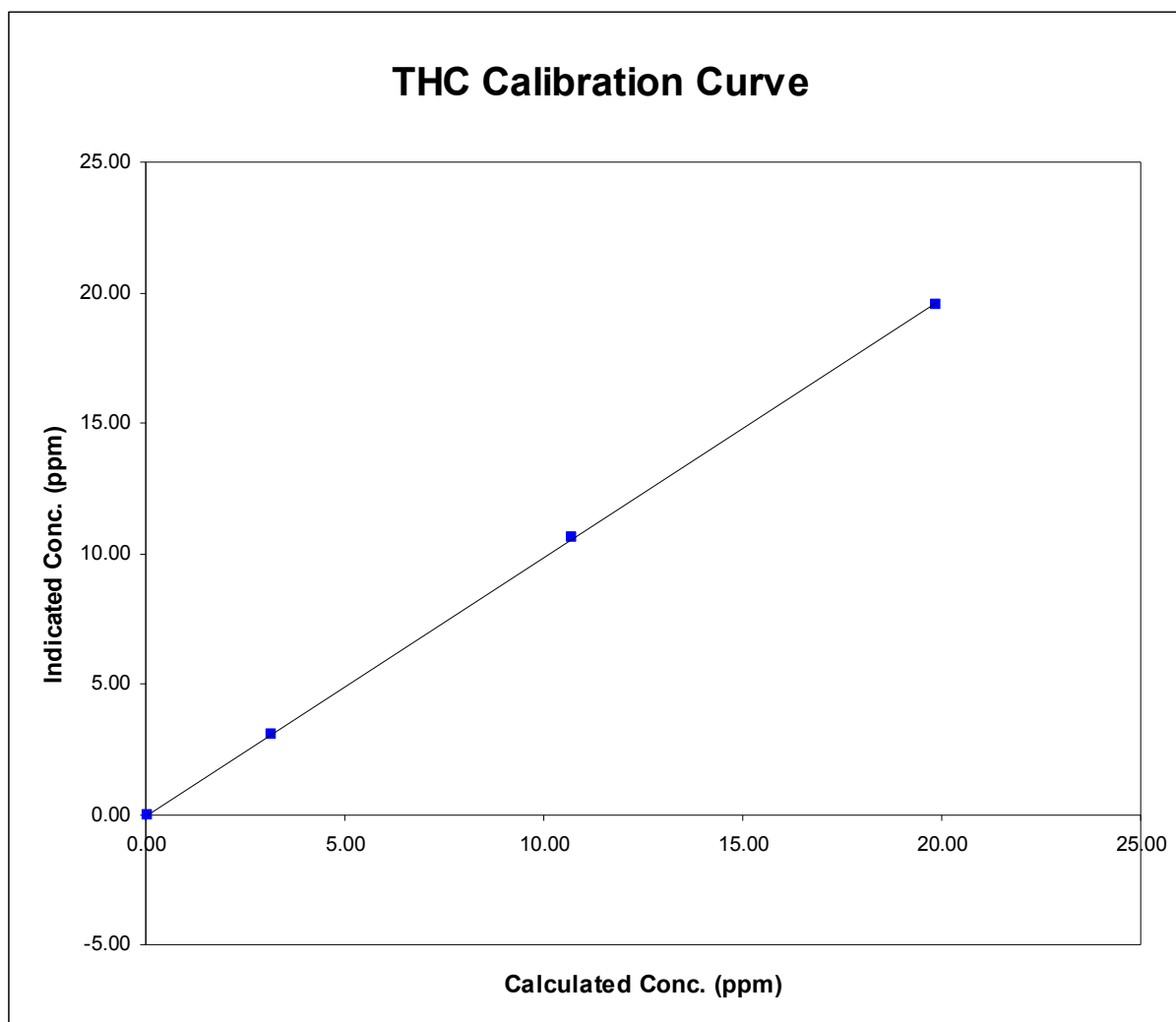


Station Information

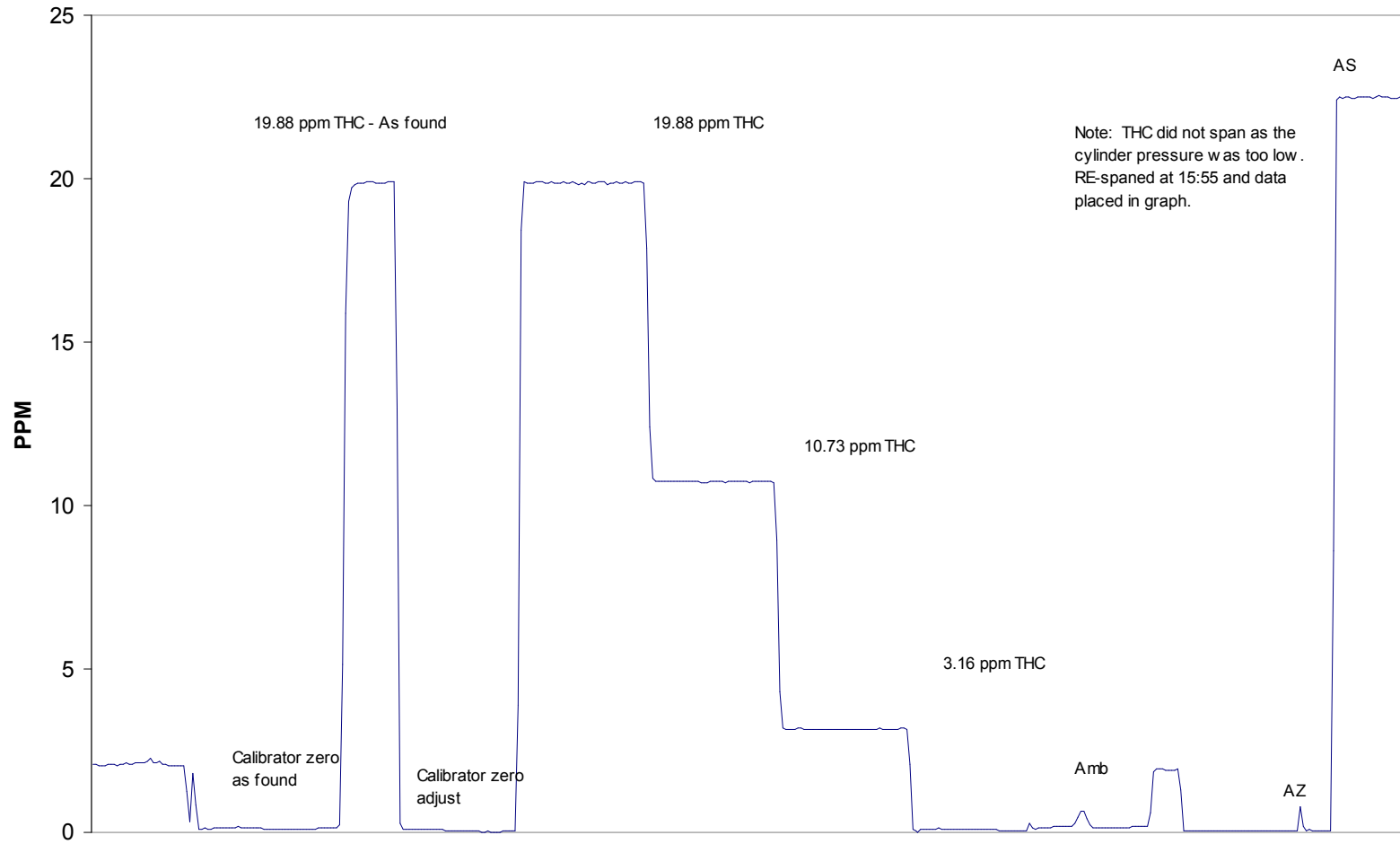
Calibration Date	July 15, 2005	Previous Calibration	June 6, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	12:14	End Time (MST)	16:15
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.000	0.035	N/A		
19.553	19.876	0.9838	Correlation Coefficient	0.999982
10.584	10.727	0.9868		
3.034	3.164	0.9588	Slope	0.987086
			Intercept	-0.048307



THC Calibration



July 15, 2005

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

Calibration Date	July 15, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="checked" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	14:23	End Time (MST)	17:20
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
Cal Gas Concentration	5.02 ppm	Cal Gas Expiry Date	11/15/2005
Cylinder S/N	BLM003489		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	8

	Before	After
Calculated slope	1.007326	0.970361
Calculated intercept	0.381963	1.090784

Analyzer make	Teco 43C	Analyzer serial #	31990000000491
---------------	----------	-------------------	----------------

	before		after	
Concentration range	0-100	ppb	0-100	ppb
Background	20.4	ppb	19.9	ppb
Coefficient	1.215		1.185	
Lamp Volt	869	V	872	V
Chamber Temp	44.4	Deg C	44.4	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	635	mm Hg	638.3	mm Hg
Sample Flow	675	ccm	689	ccm
Lamp Intensity	39500	mv	39500	mv

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.0	-0.3	N/A
4993	79.95	79.1	80.8	0.9786
4993	39.96	39.9	39.4	1.0125
4993	19.98	20.0	18.9	1.0612
4993	0.00	0.0	-0.3	As found zero
4993	79.95	79.1	81.4	As found span
Average Correction Factor				1.0174

 Calculated value of As Found Response: **82.7 ppm** Percent Change of As Found: **-4.6%**

	before calibration		after calibration	
Auto zero	0.0	ppm	1.3	ppm
Auto span	68.8	ppm	67.2	ppm

Notes: _____

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

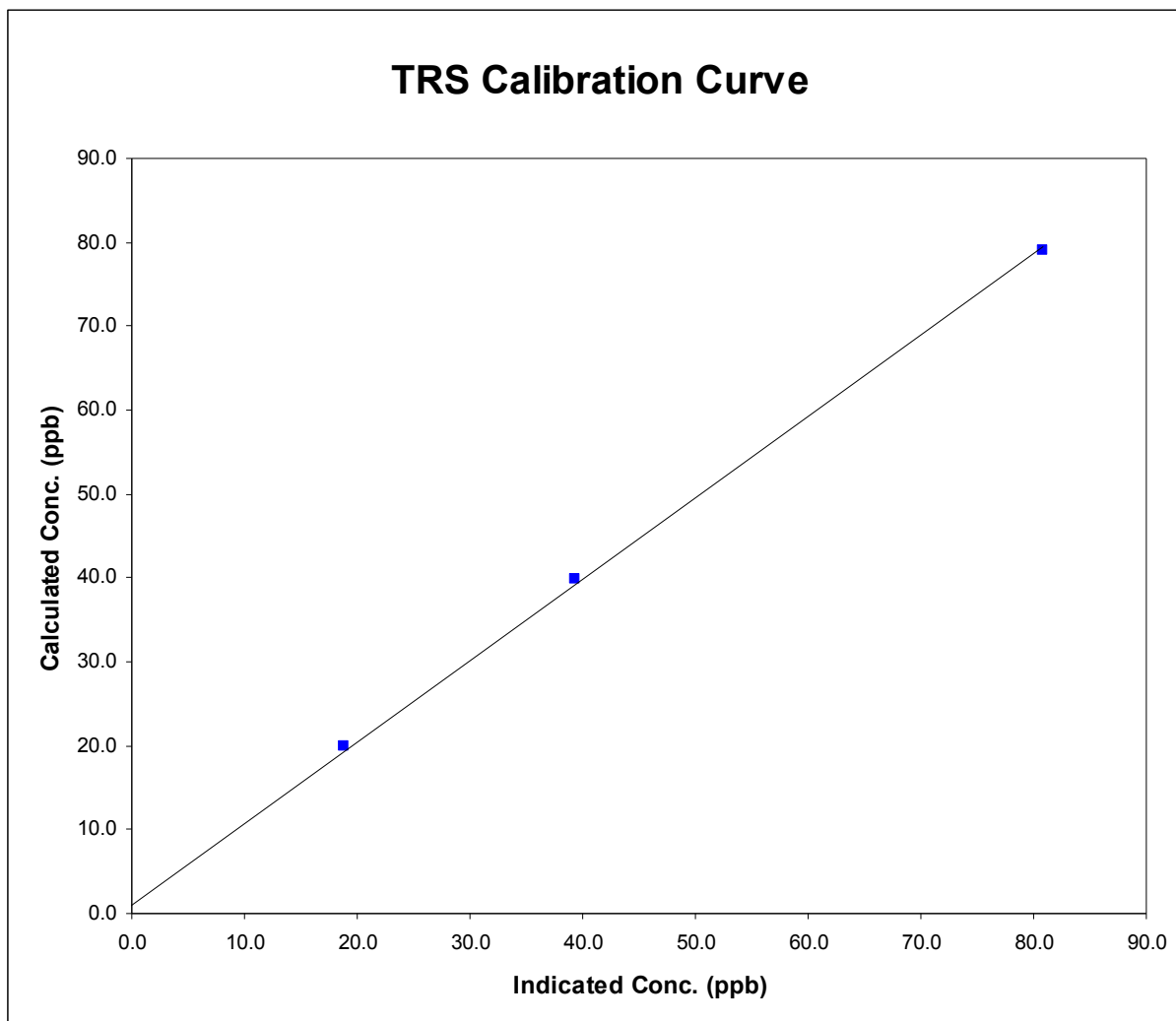


Station Information

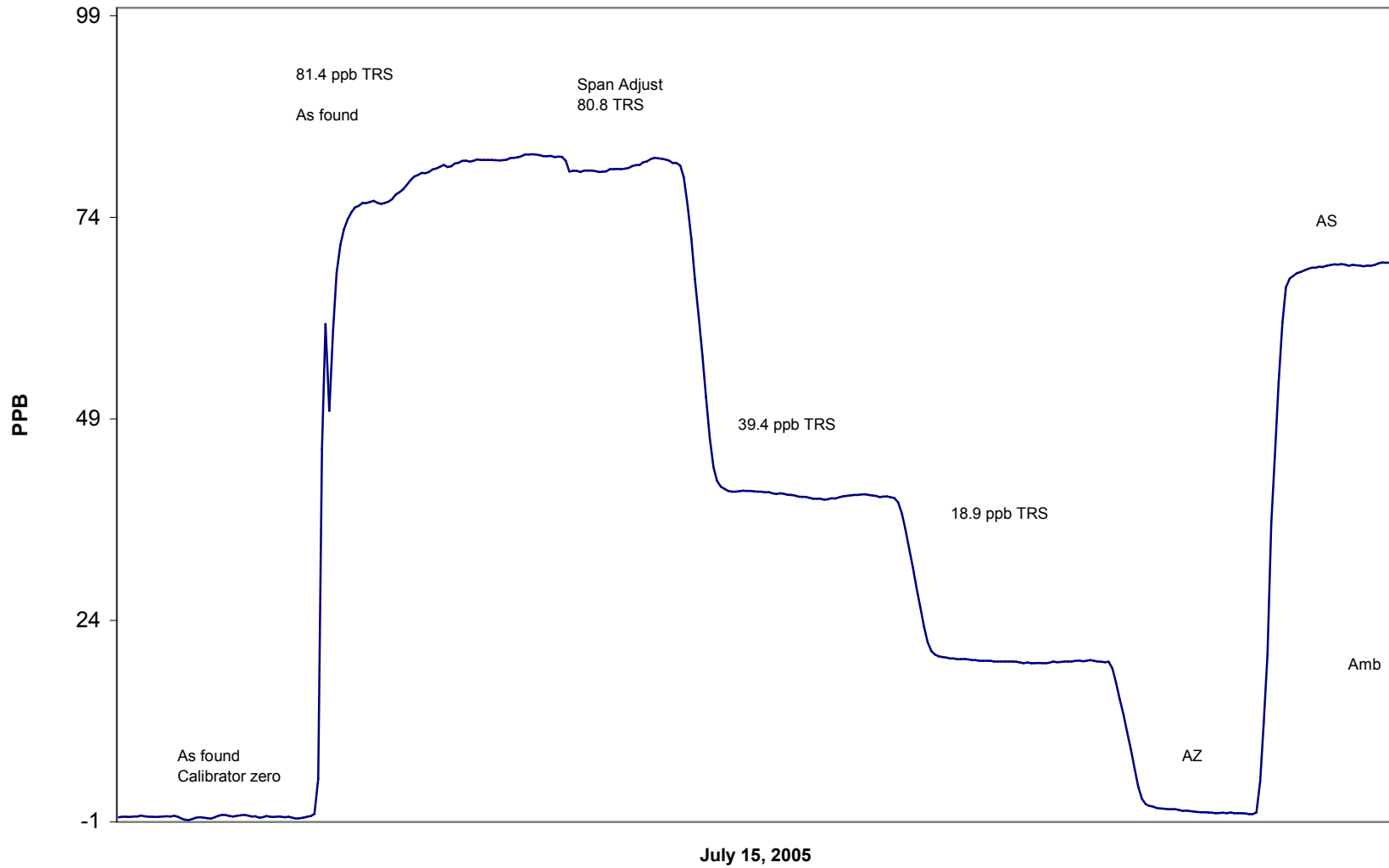
Calibration Date	July 15, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	14:23	End Time (MST)	17:20
Analyzer make/model	Teco 43C	Analyzer serial #	3.199E+13

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	-0.3	N/A		
79.1	80.8	0.9786	Correlation Coefficient	0.999569
39.9	39.4	1.0125		
20.0	18.9	1.0612	Slope	0.970361
			Intercept	1.090784



TRS Calibration



Calibration Report

Parameter PM2.5Air Monitoring Network PASZA

Station Information

Calibration Date	July 13, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:52	End Time (MST)	16:45
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	60	%	24	%
Ko Factor	12122		12122	
Temperature	17.9	Deg C	17.9	Deg C
Pressure	0.930	ATM	0.930	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.02
zero flow - auxillary	0.0	0.00		-0.01
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	27
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	51
Temperature	measured	18.0	+/- 1.0 Deg C	17.9
Pressure	measured	0.924	+/- 1.5% ΔATM	0.930
Total Flow	16.67 SLPM	16.15		16.60
Main Flow	13.67 SLPM	13.60	+/- 1.0 SLPM	13.67
Auxillary Flow	3.0 SLPM	3.036	+/- 0.2 SLPM	2.990
Leak Check - main	0.0	0.00	<0.15 SLPM	0.02
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.07
Ko Factor (w/o filter)	measured	324.854	filter weight (g)	0.11398
Ko Factor (w/ filter)	measured	230.124	% Ko difference	0.0%

Notes: Cleaned filter head.
Changed Filter.

Calibration Performed By: Dawn Ewan

Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	July 28, 2005	Previous Calibration	June 20, 2005
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	

Start Time (MST)	9:55	End Time (MST)	16:00
Barometric Pressure	27.6 inches Hg	Station Temperature	23.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	3,141 ng/min	Perm-tube Expiry Dat	June 30/05
Correction factor	0.929029	Perm-tube Cert #	19-14433
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4

	<u>Before</u>		<u>After</u>
Calculated slope	1.273587	Calculated slope	0.998494
Calculated intercept	-5.152738	Calculated intercept	-4.831759

Analyzer make	API 100	Analyzer serial #	32
---------------	---------	-------------------	----

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	553	ccm	488	ccm
UV Lamp Voltage	3150	mv	3263	mv
Lamp Ratio	90	%	93	%
Rx Cell Temp	50	Deg C	50	Deg C
PMT Temp	10	Deg C	10	Deg C
IZS Temp	40	Deg C	40	Deg C
Slope	9.78		6.69	
Intercept	211.8		180.7	

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	2532.5	0.0	-0.7	N/A
2726	2532.5	473.4	475.4	0.9957
5022	4665.6	257.0	265.5	0.9679
10160	9438.9	127.0	137.8	0.9218
zero	2536.2	0.0	-3.4	As Found Zero
2730	2536.2	472.7	322.2	As Found Span
Average Correction Factor				0.9618

Calculated value of As Found Response: 409.537 ppm Percent Change of As Found: 13.4%

	before calibration		after calibration	
Auto zero	-1.6	ppm	-4.2	ppm
Auto span	227.5	ppm	355.6	ppm

Calibration Summary

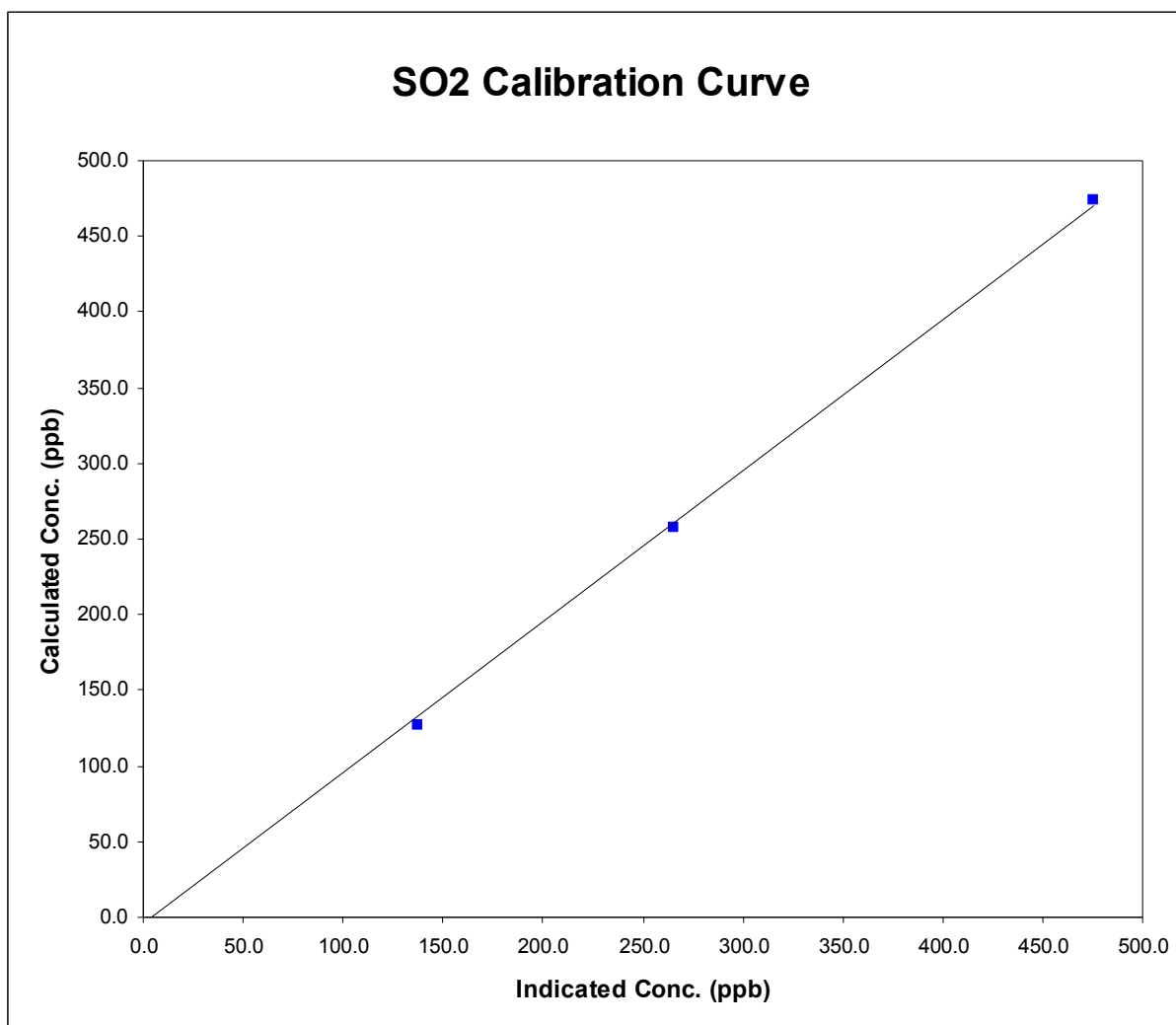
Parameter SO2Air Monitoring Network PASZA

Station Information

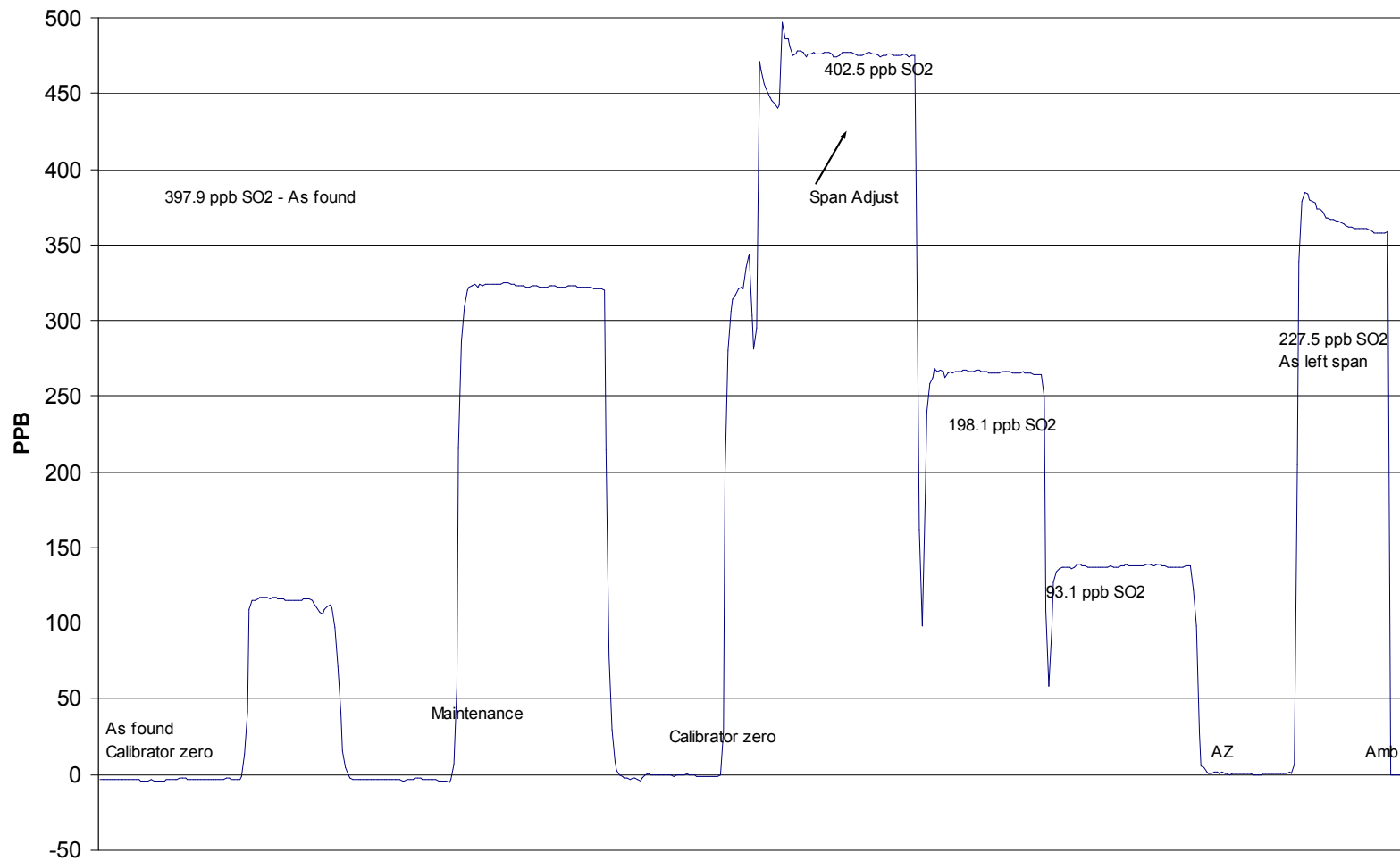
Calibration Date	July 28, 2005	Previous Calibration	June 20, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:55	End Time (MST)	16:00
Analyzer make/model	API 100	Analyzer serial #	32

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	-0.7	N/A		
473.4	475.4	0.9957	Correlation Coefficient	0.999292
257.0	265.5	0.9679		
127.0	137.8	0.9218		
			Slope	0.998494
			Intercept	-4.831759



SO2 Calibration



July 28, 2005

Calibration Summary

Parameter
 Air Monitoring Network
PASZA

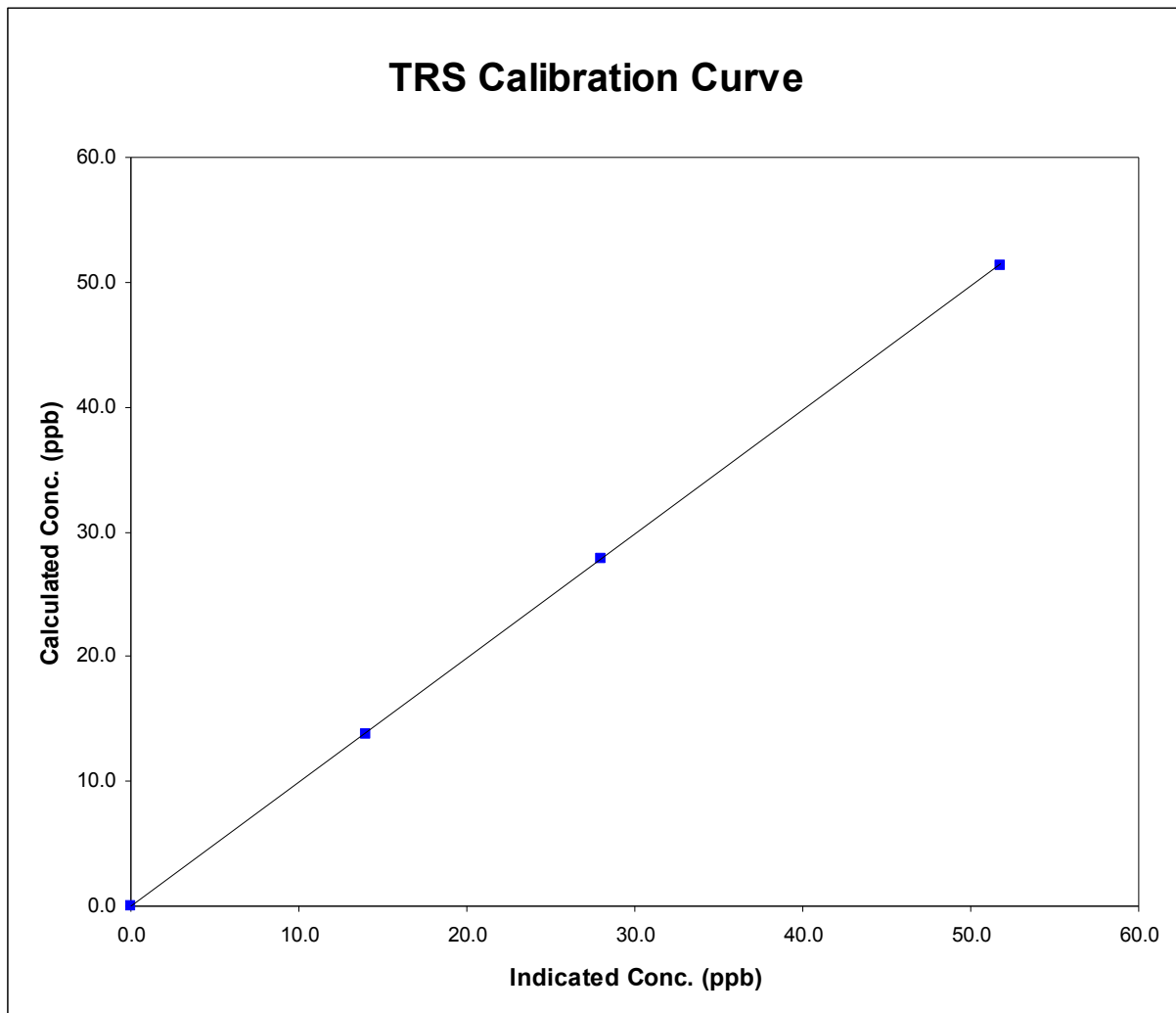


Station Information

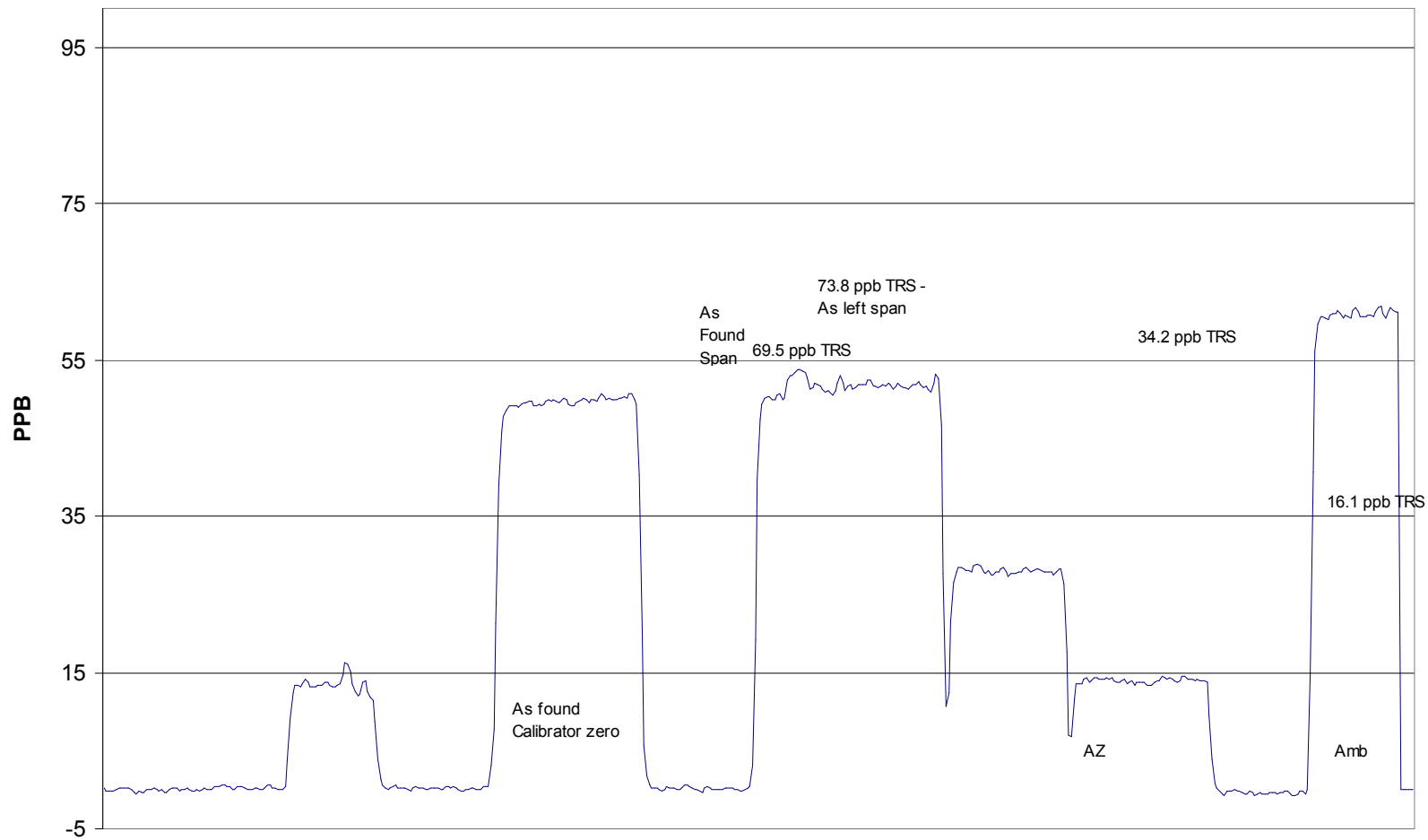
Calibration Date	July 28, 2005	Previous Calibration	June 20, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:55	End Time (MST)	16:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	0.0	N/A		
51.4	51.8	0.9918	Correlation Coefficient	0.999981
27.9	28.0	0.9957		
13.8	14.0	0.9817		
			Slope	0.993735
			Intercept	-0.064253



TRS Calibration



July 28, 2005

Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	July 28, 2005	Previous Calibration	June 23, 2005
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
Other:			
Start Time (MST)	19:30	End Time (MST)	23:12
Barometric Pressure	27.58 inches Hg	Station Temperature	18.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	3,141 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.943965	Perm-tube Cert #	19-14433
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
Calculated slope	0.991832	Calculated slope	0.983871
Calculated intercept	1.532871	Calculated intercept	1.929856
Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	524	ccm	545	ccm
UV Lamp Voltage	3390	mv	3290	mv
Lamp Ratio	93	%	90	%
Rx Cell Temp	51	Deg C	51	Deg C
PMT Temp	7.1	Deg C	6.8	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	0.817		1.202	
Intercept	20.6		18.3	

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2591.2	0.0	1.2	N/A
2745	2591.2	462.7	469.7	0.9851
5075	4790.6	250.3	251.7	0.9943
10110	9543.5	125.6	121.9	1.0308
zero	2591.2	0.0	2.1	As Found Zero
2745	2591.2	462.7	331.4	As Found Span
Average Correction Factor				1.0034

Calculated value of As Found Response: 328.167 ppm Percent Change of As Found: 29.1%

	before calibration		after calibration	
Auto zero	2.1	ppm	4.6	ppm
Auto span	232.5	ppm	342.0	ppm

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA



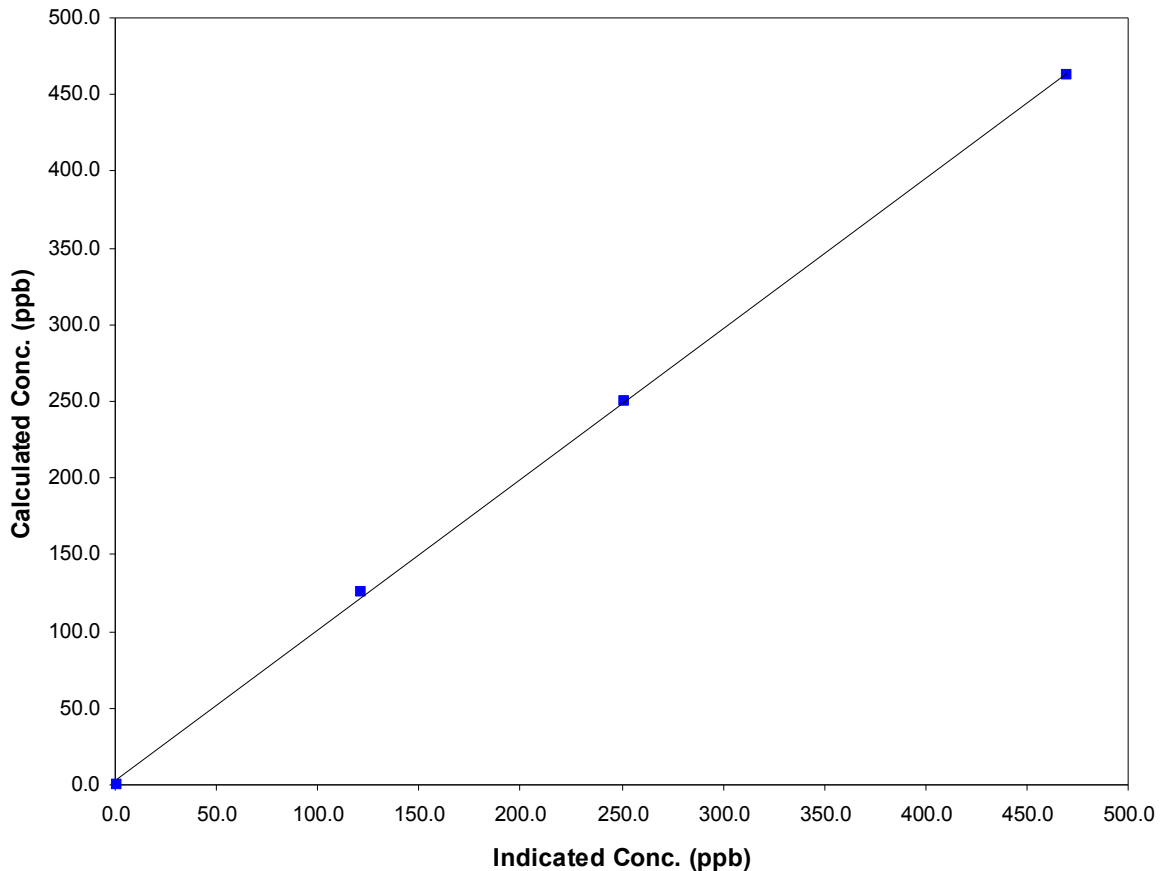
Station Information

Calibration Date	July 28, 2005	Previous Calibration	June 23, 2005
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	19:30	End Time (MST)	23:12
Analyzer make/model	API 102A	Analyzer serial #	212

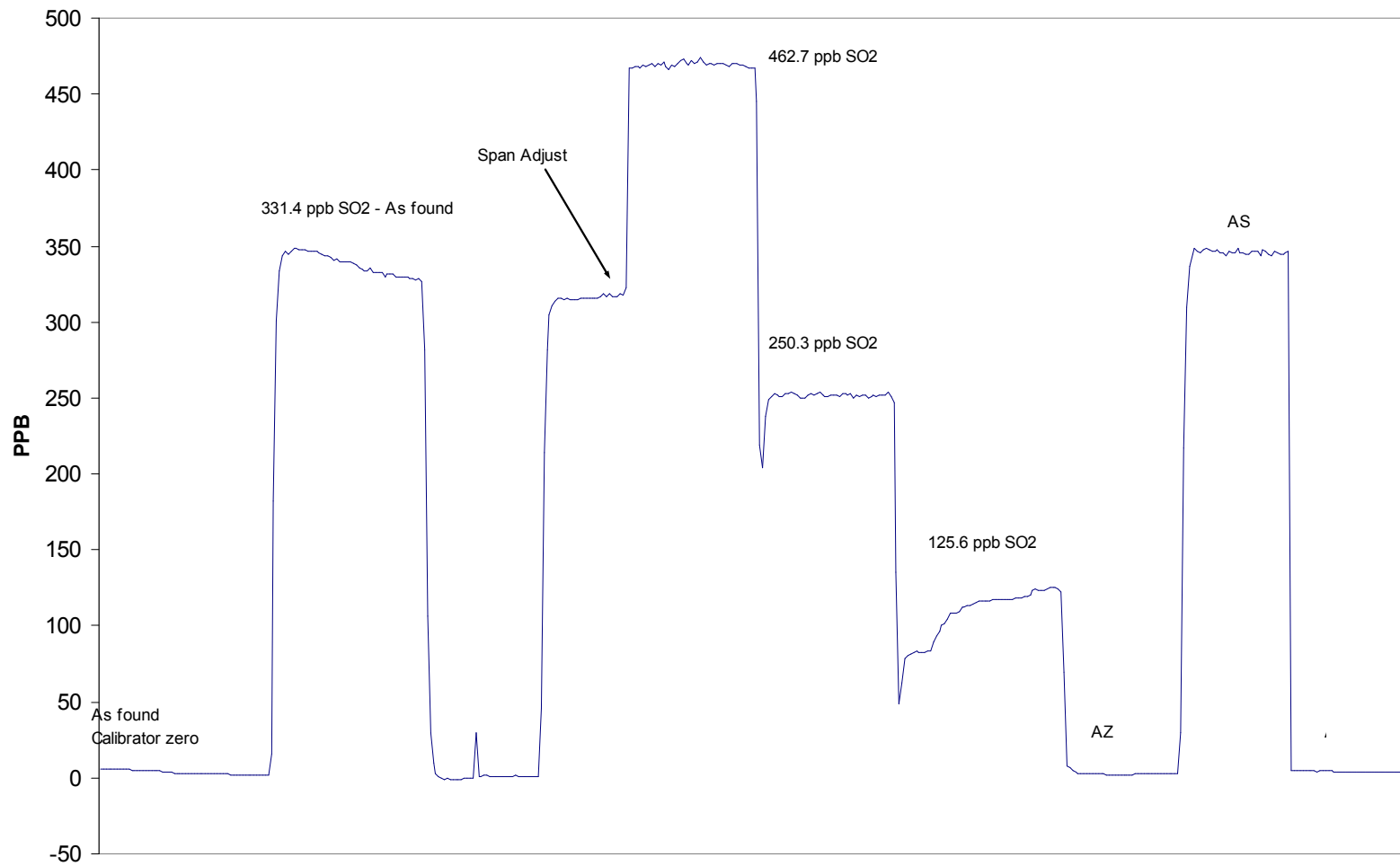
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	1.2	N/A		
462.7	469.7	0.9851	Correlation Coefficient	0.999772
250.3	251.7	0.9943		
125.6	121.9	1.0308		
			Slope	0.983871
			Intercept	1.929856

SO2 Calibration Curve



SO2 Calibration



July 28, 2005

Calibration Report



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

Station Information

Calibration Date	July 28, 2005	Previous Calibration	June 23, 2005
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	19:30	End Time (MST)	23:12
Barometric Pressure	27.58 inches Hg	Station Temperature	25.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	181 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.921791	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	0.994967	Calculated slope	0.977345
Calculated intercept	-0.170310	Calculated intercept	0.836924
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	9.4	ppb	10.1	ppb
coefficient	1.154		1.057	
Lamp Voltage	779	volts	776	volts
Chamber Temp	44	Deg C	34	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	642.1	mm Hg	641.5	mm Hg
Sample Flow	466	ccm	459	ccm
Lamp Intesity	32,200	mv	32,500	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/lc)
zero	2530.3	0.0	-0.1	N/A
2745	2530.3	51.4	51.8	0.9931
5075	4678.1	27.8	28.1	0.9890
10110	9319.3	14.0	12.1	1.1506
zero	2530.3	0.0	0.8	As Found Zero
2745	2530.3	51.4	56.3	As Found Span
Average Correction Factor				1.0442

Calculated value of As Found Response: 55.10 ppm Percent Change of As Found: -7.1%

	before calibration		after calibration	
Auto zero	-0.2	ppm	-0.1	ppm
Auto span	72.3	ppm	71.5	ppm

Notes: _____

Calibration Summary

Parameter TRS
 Air Monitoring Network PASZA

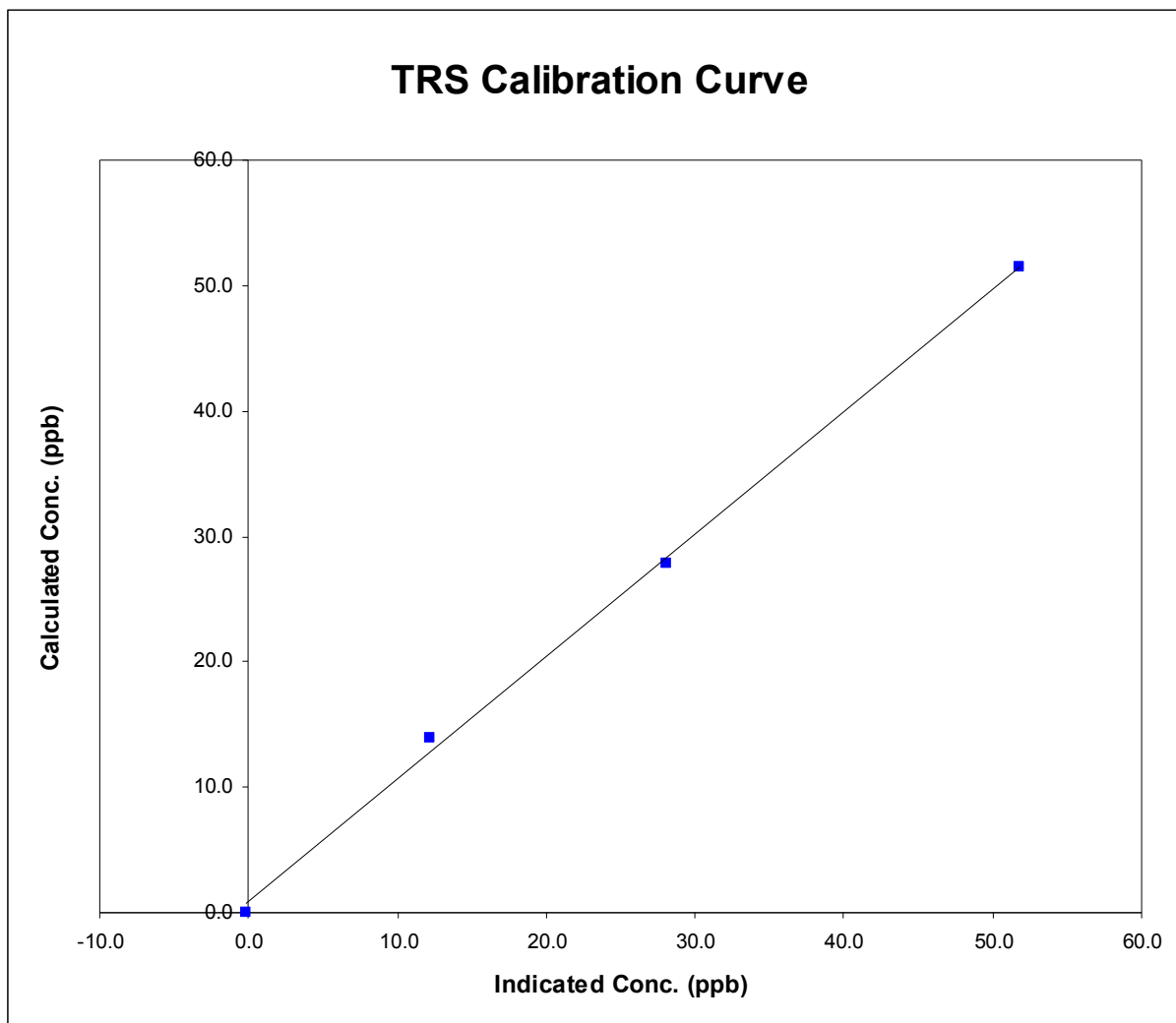


Station Information

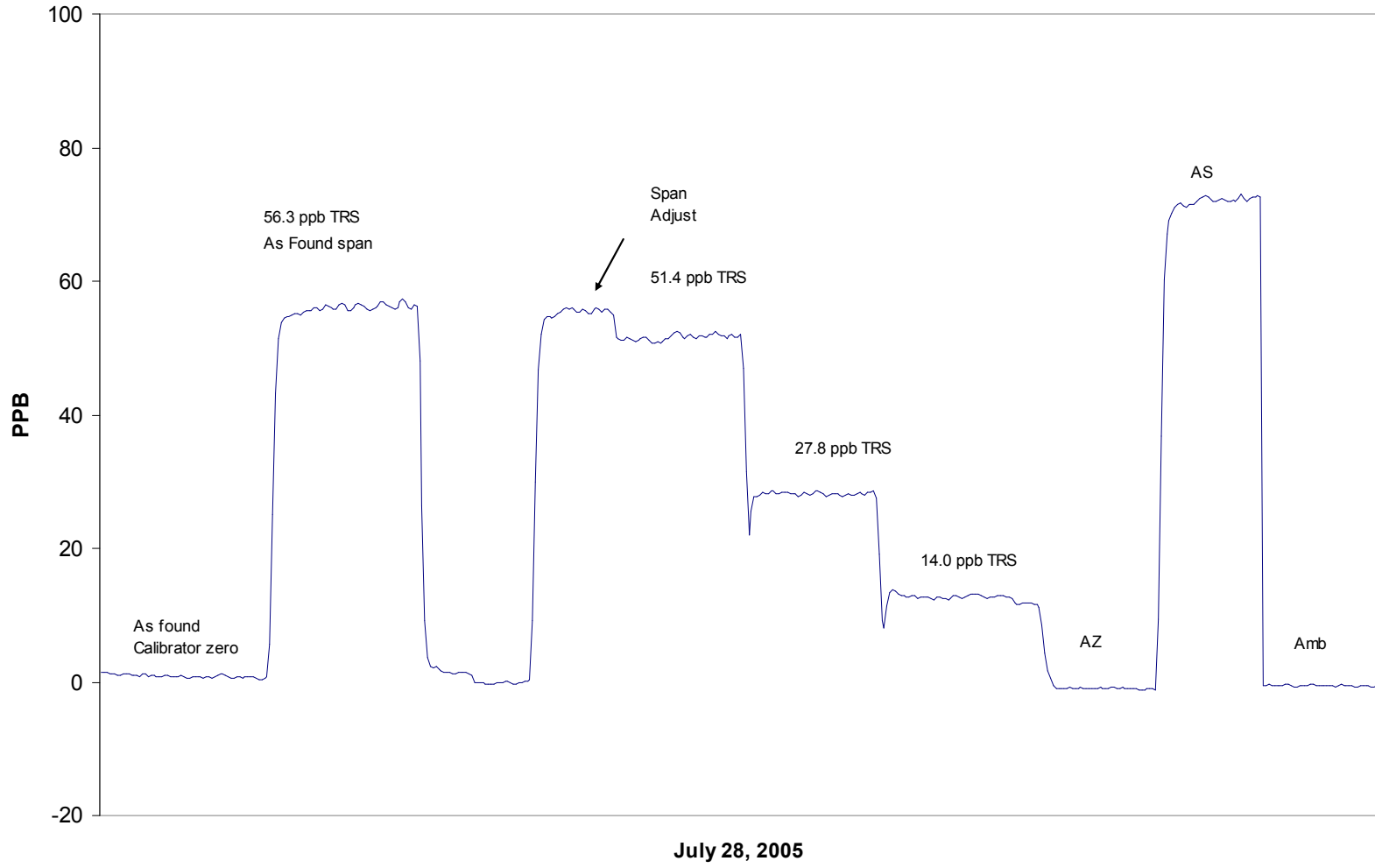
Calibration Date	July 28, 2005	Previous Calibration	June 23, 2005
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	19:30	End Time (MST)	23:12
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.0	-0.1	N/A		
51.4	51.8	0.9931	Correlation Coefficient	0.998333
27.8	28.1	0.9890		
14.0	12.1	1.1506	Slope	0.977345
			Intercept	0.836924



TRS Calibration



Calibration Report

Parameter PM2.5
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	July 5, 2005	Previous Calibration	June 23, 2005
Station Number	1	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:50	End Time (MST)	
Barometric Pressure	0.919 inches Hg	Station Temperature	22.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	54	%	18	%
Ko Factor			10997	
Temperature	22.9	Deg C	22.9	Deg C
Pressure	0.923	ATM	0.923	ATM
Main Fadj				
Aux Fadj				

Calibration Data

Parameter	Set Point	Indicated Reading	Tolerance	New Reading
zero flow - main	0.0	0.00		
zero flow - auxillary	0.0	0.01		
flow recovery - main	45 - 60 Seconds	>45	45 - 60 Seconds	>45
flow recovery - aux	46 - 60 Seconds	>45	46 - 60 Seconds	>45
Temperature	10.49 measured	22.9	+/- 1.0 Deg C	22.9
Pressure	0.924 measured	0.923	+/- 1.5% ΔATM	0.923
Total Flow	16.67 SLPM	16.30		16.30
Main Flow	13.67 SLPM	13.71	+/- 1.0 SLPM	13.71
Auxillary Flow	3.0 SLPM	3.010	+/- 0.2 SLPM	3.010
Leak Check - main	0.0	0.04	<0.15 SLPM	0.04
Leak Check - aux	0.0	0.08	<0.15 SLPM	0.08
Ko Factor	measured	NA		NA

Notes: Data running in the negative on arrival.
All Parameters running to spec.
Step 4 indicated on screen.
Change filter, Changed Blue Filter.

Calibration Performed By: Dawn Ewan

Calibration Report

 Parameter SO₂

Air Monitoring Network

PASZA


Station Information

Calibration Date	July 11, 2005	Previous Calibration	May 17, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other:
Start Time (MST)	8:48	End Time (MST)	11:46
Barometric Pressure	0.913 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45271
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.046733	Calculated slope	1.001235
Calculated intercept	0.338827	Calculated intercept	0.238810

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

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.97	ppb	2.43	ppb
Coefficient	1.359		1.122	
Lamp Voltage	997.0	Volts	1000.0	Volts
Chamber Temp	44.1	Deg C	43.9	Deg C
Sample Flow	602	ccm	608	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)
4993	0.00	0.00	-0.01	N/A
4993	39.97	81.79	81.60	1.0024
4993	19.96	41.00	40.52	1.0119
4993	10.00	20.59	20.15	1.0219
4993	0.00	0.00	-0.01	As Found Zero
4993	39.97	81.79	76.14	As Found Span
Average Correction Factor				1.0121

 Calculated value of As Found Response: 80.046 ppm Percent Change of As Found: 2.1%

	before calibration		after calibration	
Auto zero	0.07	ppm	0.36	ppm
Auto span	7.40	ppm	28.85	ppm

 Notes: No zero adj. Adjusted span. Initial Jump in first point caused by operator error.

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

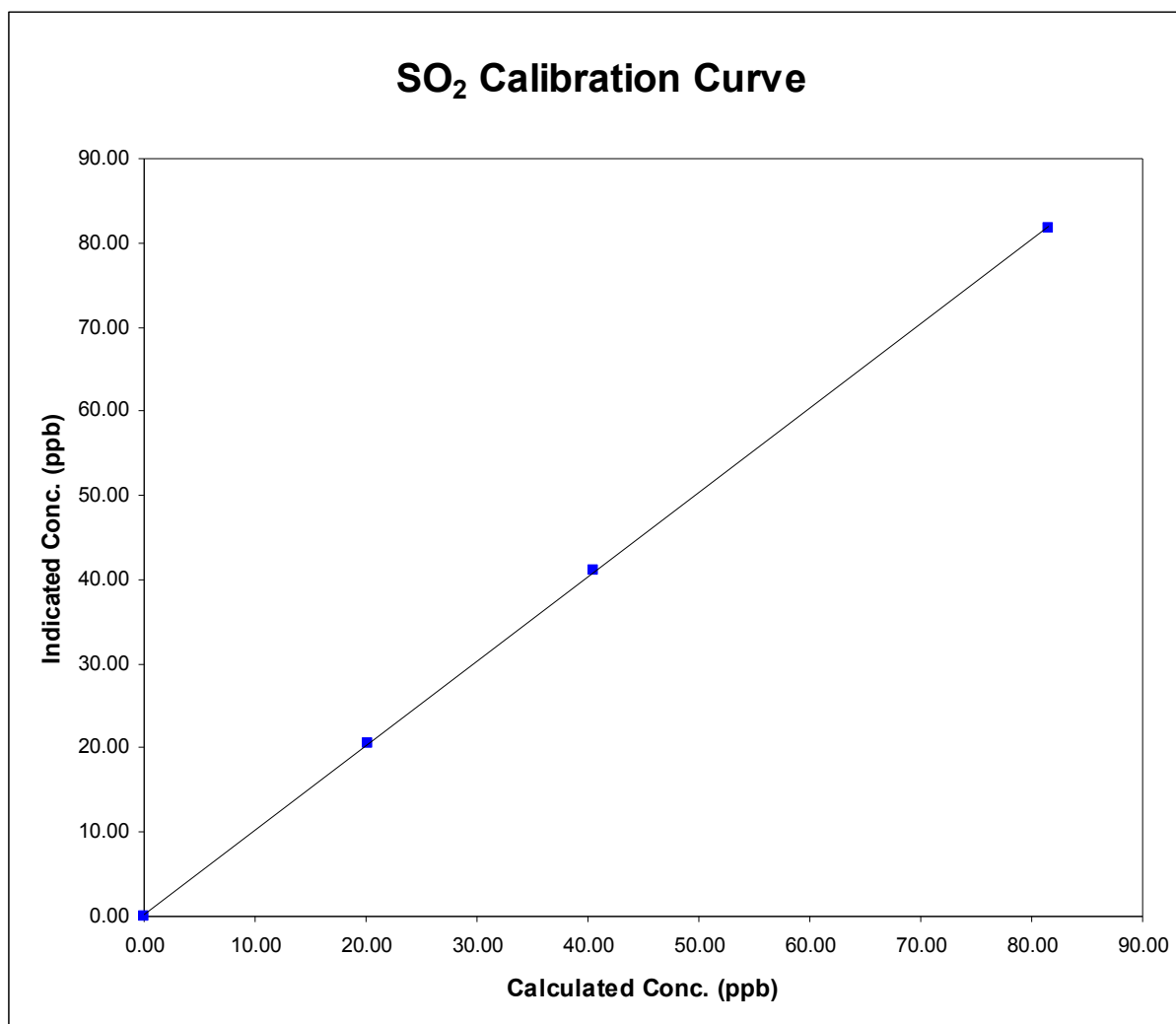


Station Information

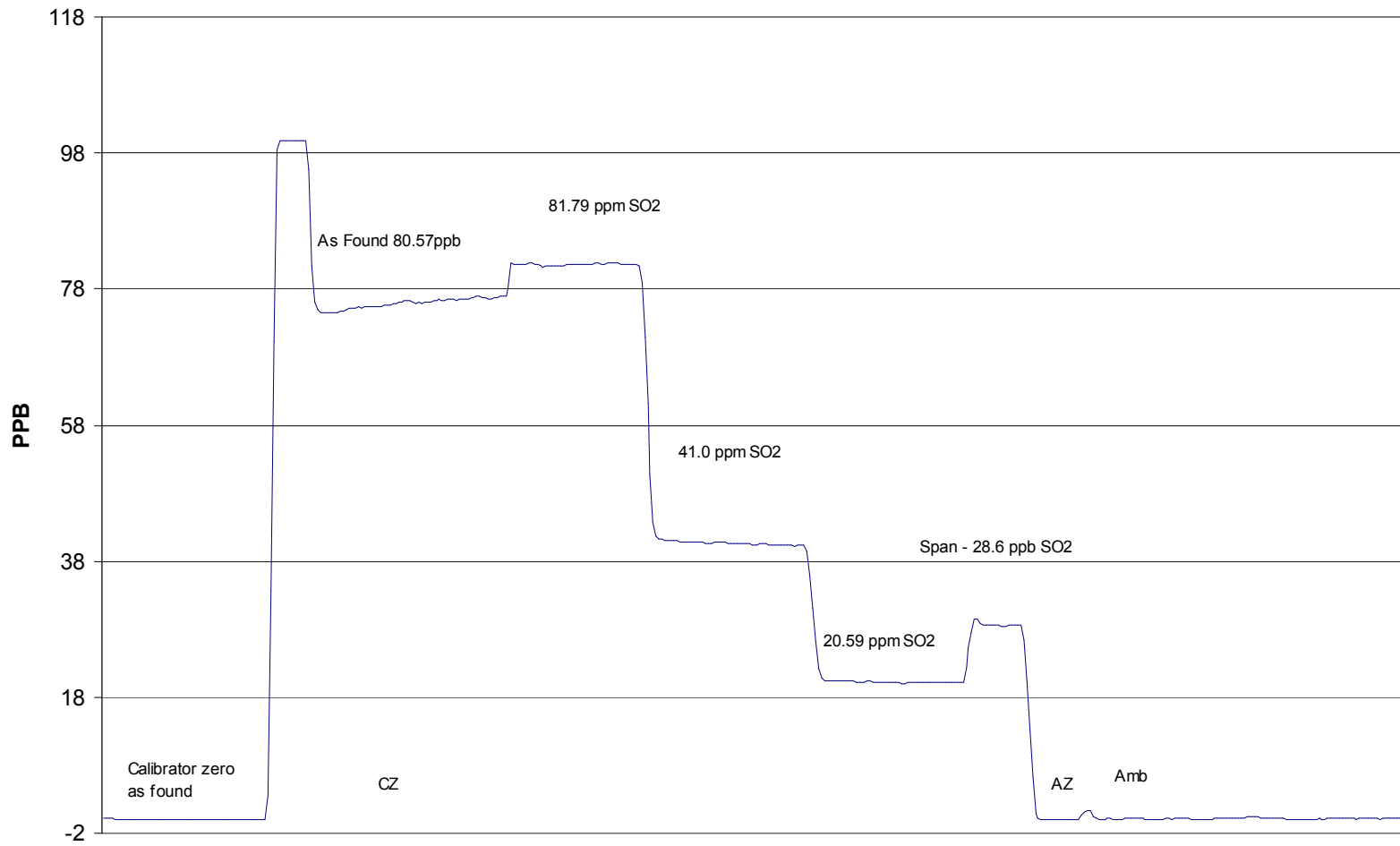
Calibration Date	July 11, 2005	Previous Calibration	May 17, 2005
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:48	End Time (MST)	11:46
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)	Statistical Evaluation	
0.000	-0.007	N/A		
81.795	81.596	1.0024	Correlation Coefficient	0.999961
41.003	40.519	1.0119		
20.588	20.147	1.0219		
			Slope	1.001235
			Intercept	0.238810



SO₂ Calibration



July 11, 2005

Calibration Report

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



Station Information

Calibration Date	<u>July 17, 2005</u>	Previous Calibration	<u>June 8, 2005</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>8:40</u>	End Time (MST)	<u>12:40</u>
Barometric Pressure	<u>0.918</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>Envionics 6100</u>	Serial Number	<u>3016</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.000323	1.012447	1.013664
	Data Offset	0.449577	-2.090985	-1.785209
After	Data Slope	0.993332	0.993668	0.997664
	Data Offset	-0.048419	-0.315305	-0.243597
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	0-1000	ppb	0-1000	ppb
NO background	1.1	ppb	1.1	mV
NOx background	1.2	ppb	1.2	mV
NO coefficient	0.922		0.922	
NOx coefficient	1.005		1.005	
Chamber Temp	49.1	Deg C	1.0	Deg C
Cooler Temp	-2.2	Deg C	-2.0	Deg C
Converter Temp	324.0	Deg C	323.0	Deg C
Sample flow	836	LPM	835.0	LPM
Pressure	162.4	inches Hg	162.3	inches Hg
Box Temp	33.1	ccm	33.3	ccm

Notes: No adjustments made.
Forgot that the analyzer range was 1000ppb next time will have higer cal numbers.

Calibration Report

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



Station Information

Calibration Date: July 17, 2005 Station Location: AG Canada Research Station

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	-0.4	-0.4	-0.4	N/A	N/A
1	4993	39.97	401.1	399.5	1.6	403.6	400.4	2.7	0.9936	0.9976
2	4993	19.98	201.3	200.5	0.8	203.0	201.2	1.0	0.9913	0.9964
3	4993	9.99	100.8	100.4	0.4	102.6	101.8	0.4	0.9827	0.9866
AFZ	4993	0.00	0.0	0.0	0.0	-0.4	-0.4	-0.4	0.0000	0.0000
AFS	4993	39.97	401.1	399.5	1.6	403.6	400.4	2.6	0.9937	0.9976
Average Correction Factor									0.9892	0.9935

As Found Concentrations: NO_x= 401.9 NO= 399.1 As Found Percent Change NO_x= 0.2% NO= -0.1%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	399.0	399.5	-0.5	403.7	400.7	2.5	0.9884	0.9971	N/A	N/A
300	399.0	119.7	279.3	402.1	120.2	281.1	0.9923	0.9956	0.9938	100.6%
200	399.0	209.5	189.5	401.6	210.2	190.7	0.9936	0.9965	0.9937	100.6%
100	399.0	303.5	95.5	401.9	304.5	96.9	0.9928	0.9969	0.9849	101.5%
Average Correction Factor							0.9929	0.9963	0.9908	100.9%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.1	0.2	0.1	ppb	243.8	15.5	228.6	ppb
Auto span	NA	NA	NA	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA

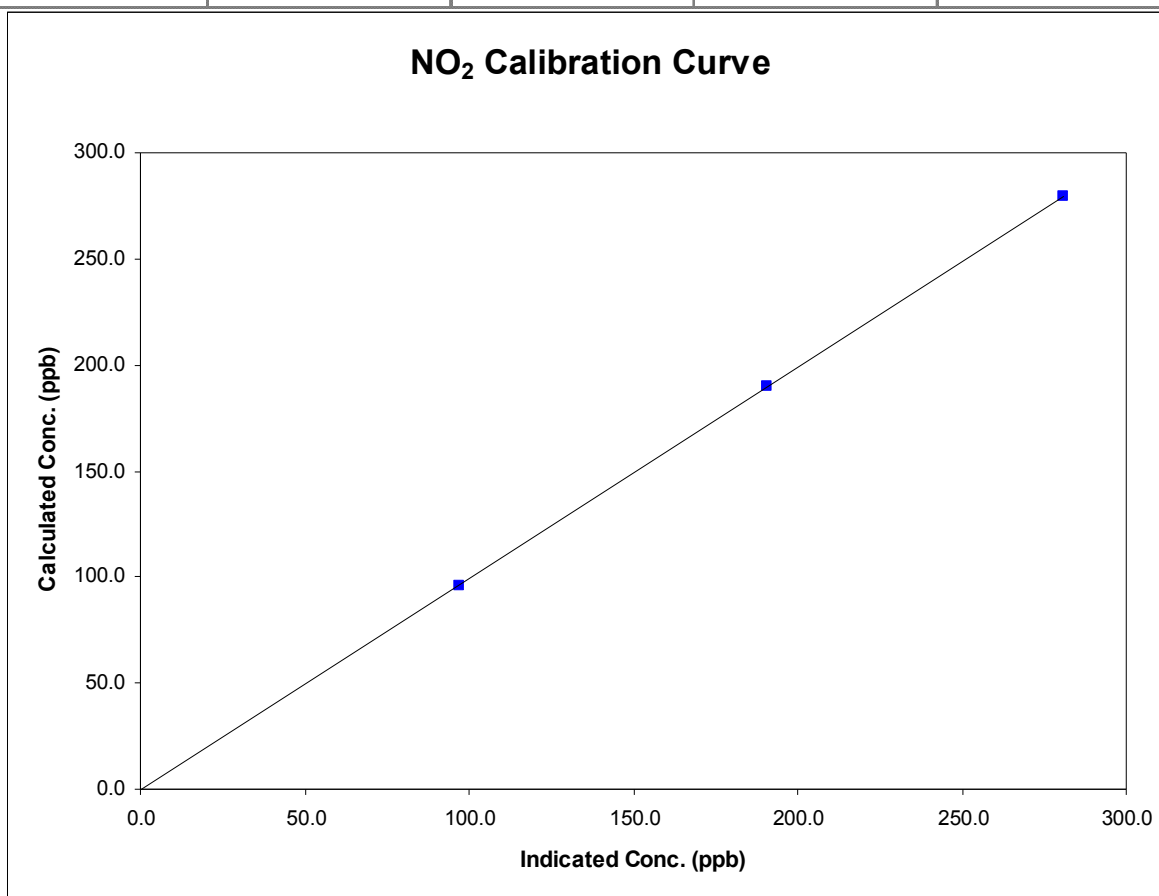


Station Information

Calibration Date	July 17, 2005	Previous Calibration	June 8, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	8:40	End Time (MST)	12:40
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000		
279.3	281.1	0.9938	Correlation Coefficient	0.999980
189.5	190.7	0.9937		
95.5	96.9	0.9849	Slope	0.993332
			Intercept	-0.048419



Calibration Summary

Parameter NO_xAir Monitoring Network PASZA

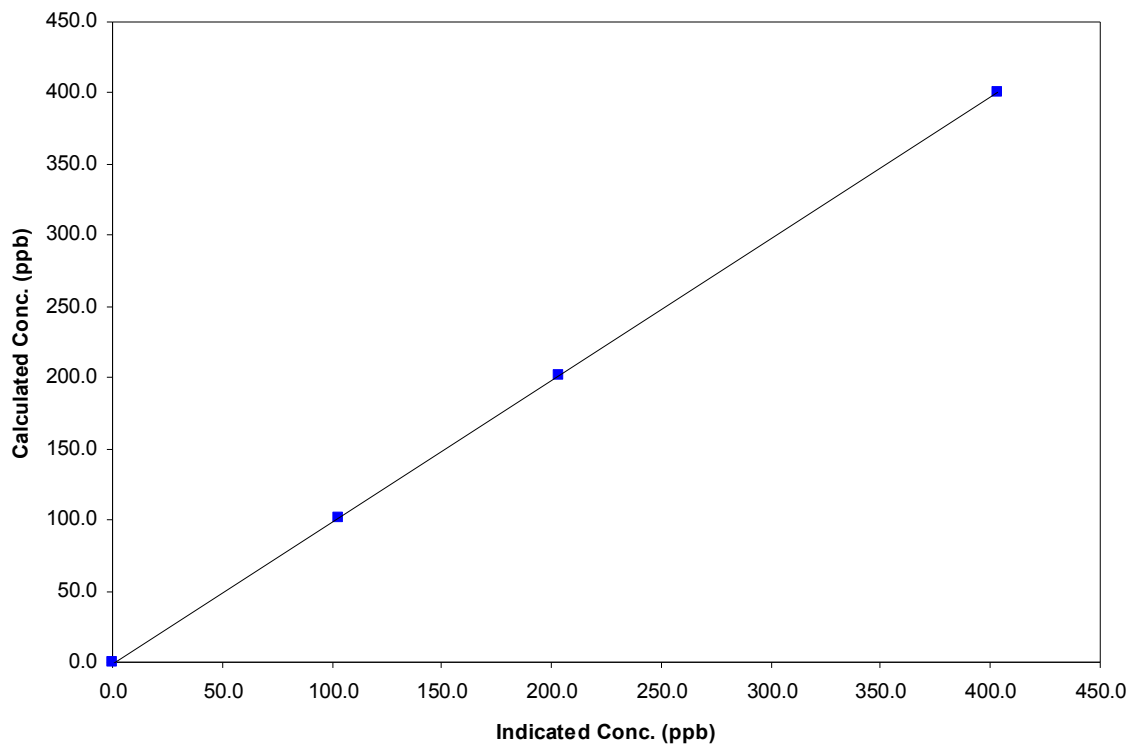
Station Information

Calibration Date	July 17, 2005	Previous Calibration	June 8, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	8:40	End Time (MST)	12:40
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000		
401.1	403.6	0.9936	Correlation Coefficient	0.999986
201.3	203.0	0.9913		
100.8	102.6	0.9827	Slope	0.993668
			Intercept	-0.315305

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

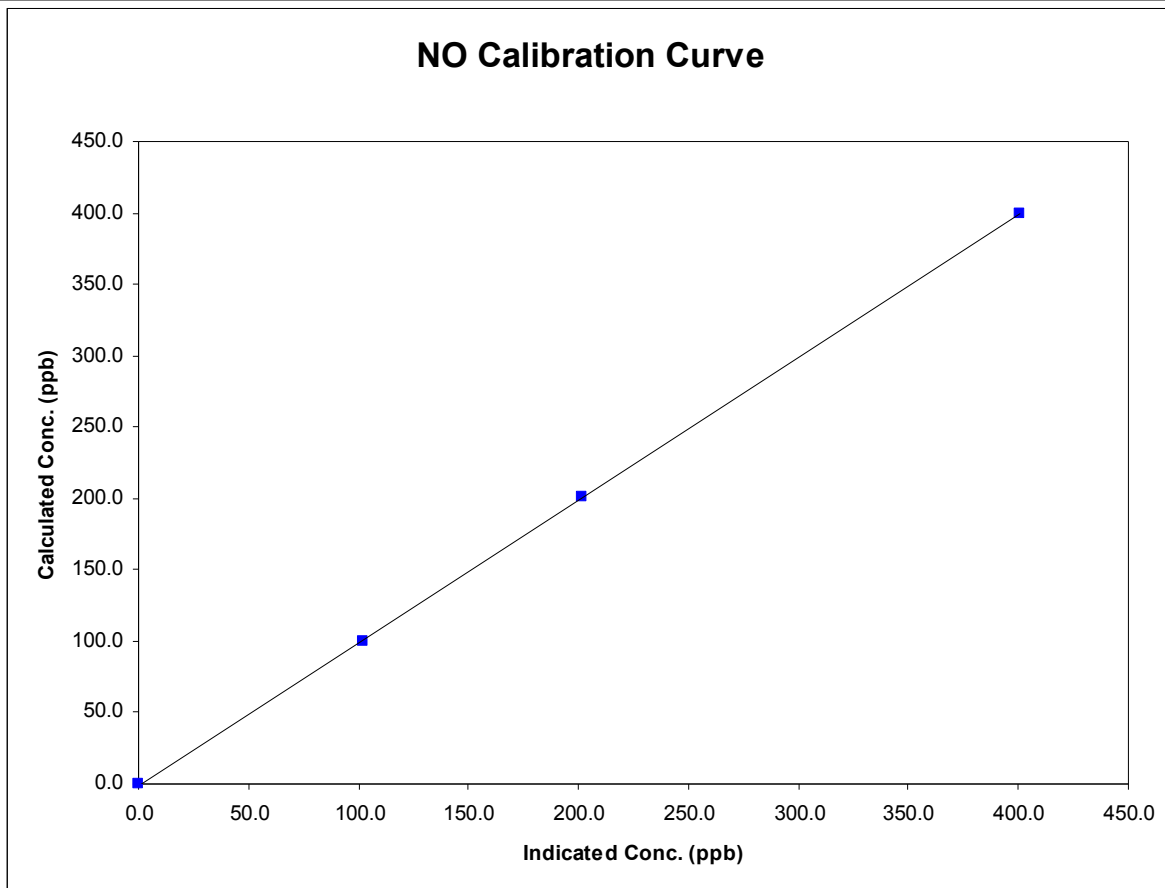


Station Information

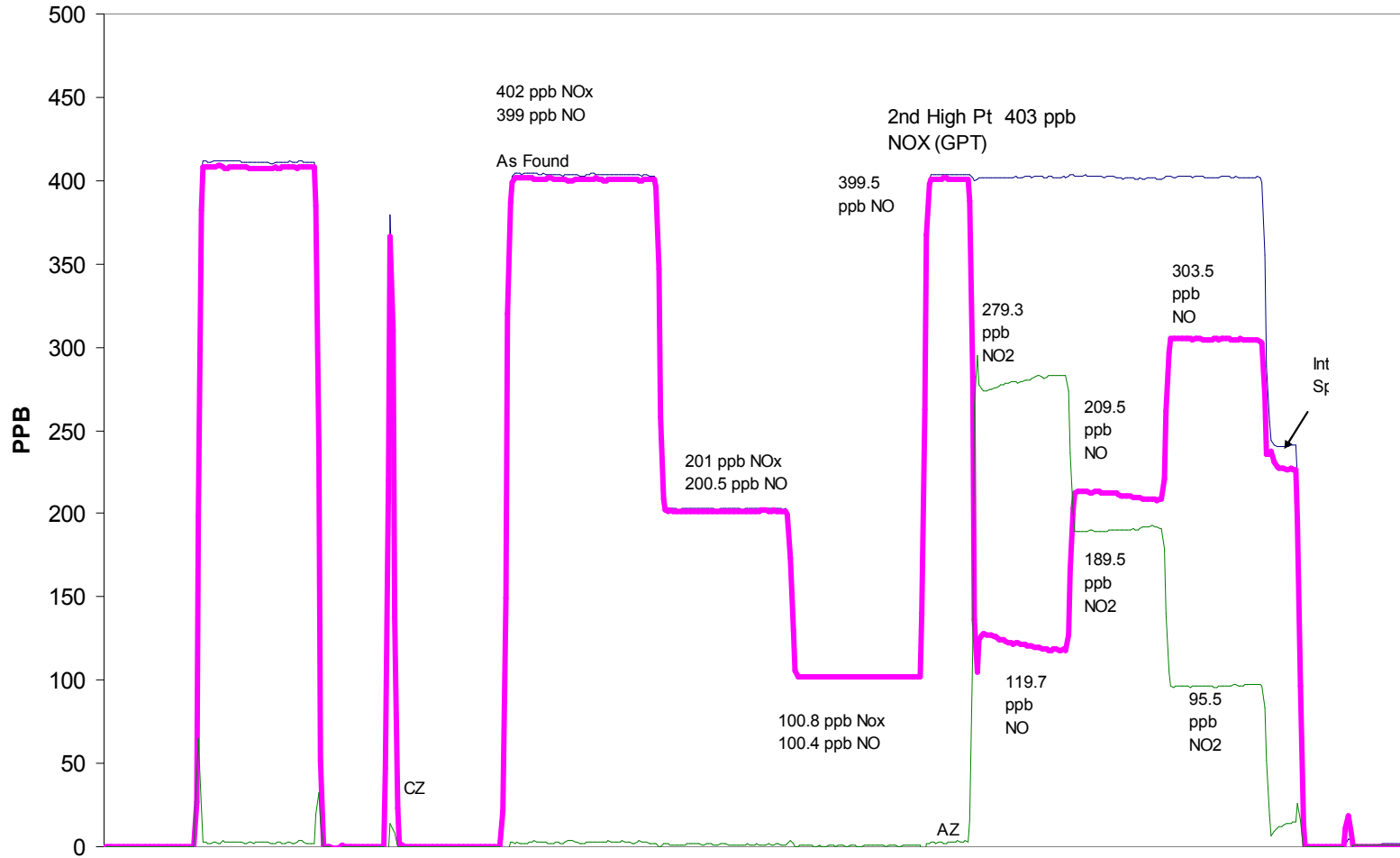
Calibration Date	July 17, 2005	Previous Calibration	June 8, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	8:40	End Time (MST)	12:40
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
399.5	400.4	0.9976	Correlation Coefficient	0.999985
200.5	201.2	0.9964		
100.4	101.8	0.9866	Slope	0.997664
			Intercept	-0.243597



NOx Calibration



July 17, 2005

Calibration Report

Parameter O3
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:00	End Time (MST)	15:38
Barometric Pressure	0.926 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
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	1.047905	Calculated slope	1.018895
Calculated intercept	-2.690889	Calculated intercept	2.206776

Analyzer make	API Model 400	Analyzer serial #	383
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	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-1.2	ppb	-1.2	ppb
slope	1.048		1.037	
Lamp measure	2632	mV	2500	mV
Lamp Reference	2633	mV	2500	mV
Pressure	26.9	inches Hg	27.2	inches Hg
Sample Flow	664	ccm	667	ccm
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)
4995	0.00	0.0	0.2	N/A
4995	0.00	289.2	284.6	1.0161
4995	0.00	197.6	188.2	1.0503
4995	0.00	98.3	92.6	1.0612
4995	0.00	0.0	-0.2	As found zero
4995	0.00	289.2	284.4	As found span
Average Correction Factor				1.0425

Calculated value of As Found Response: 295.6 ppm Percent Change of As Found: 2.2%

	before calibration		after calibration	
Auto zero	1.5	ppb	1.8	ppb
Auto span	272.9	ppb	133.6	ppb

Notes: No adjustments made

Calibration Summary

Parameter O3
 Air Monitoring Network PASZA

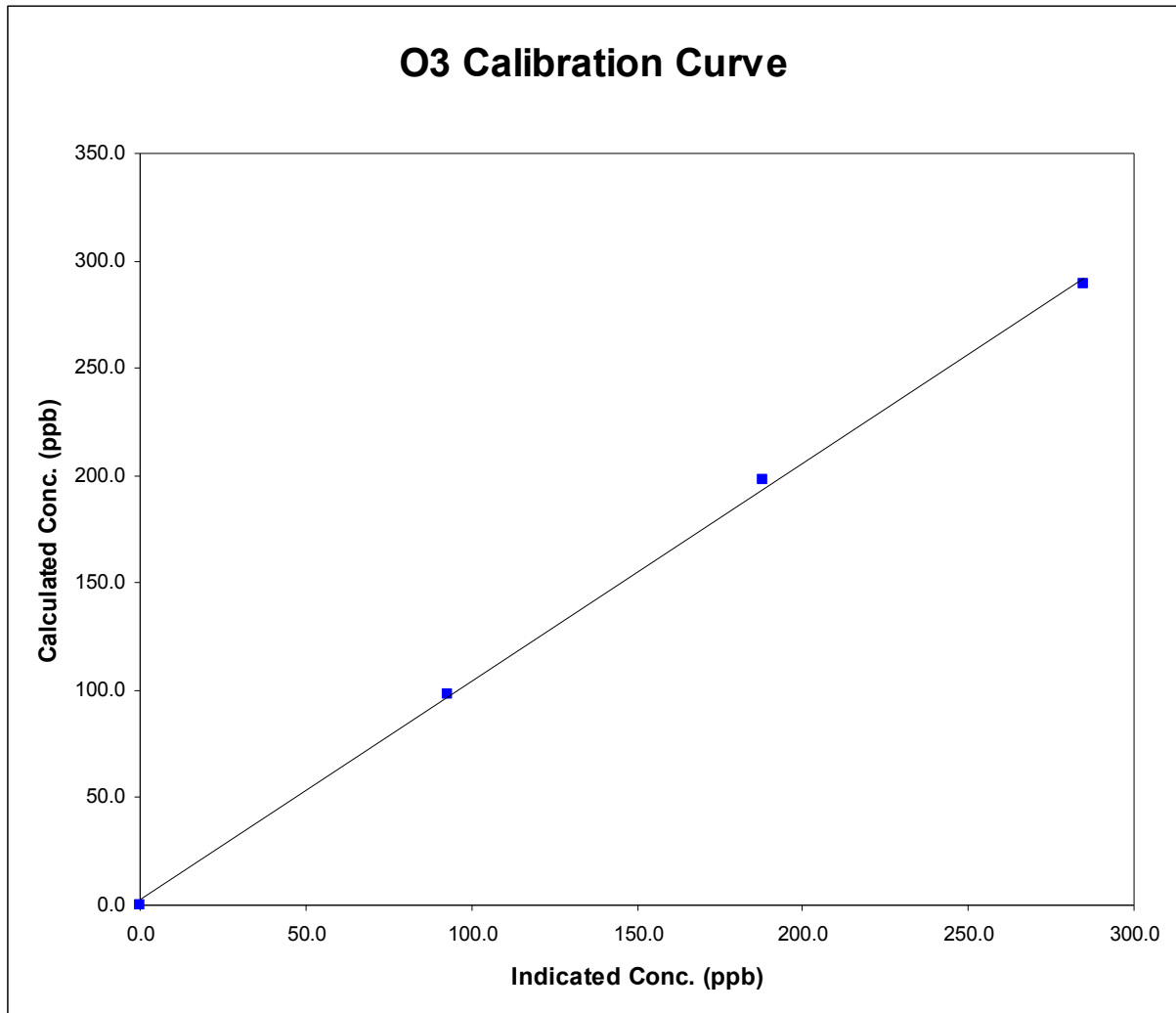


Station Information

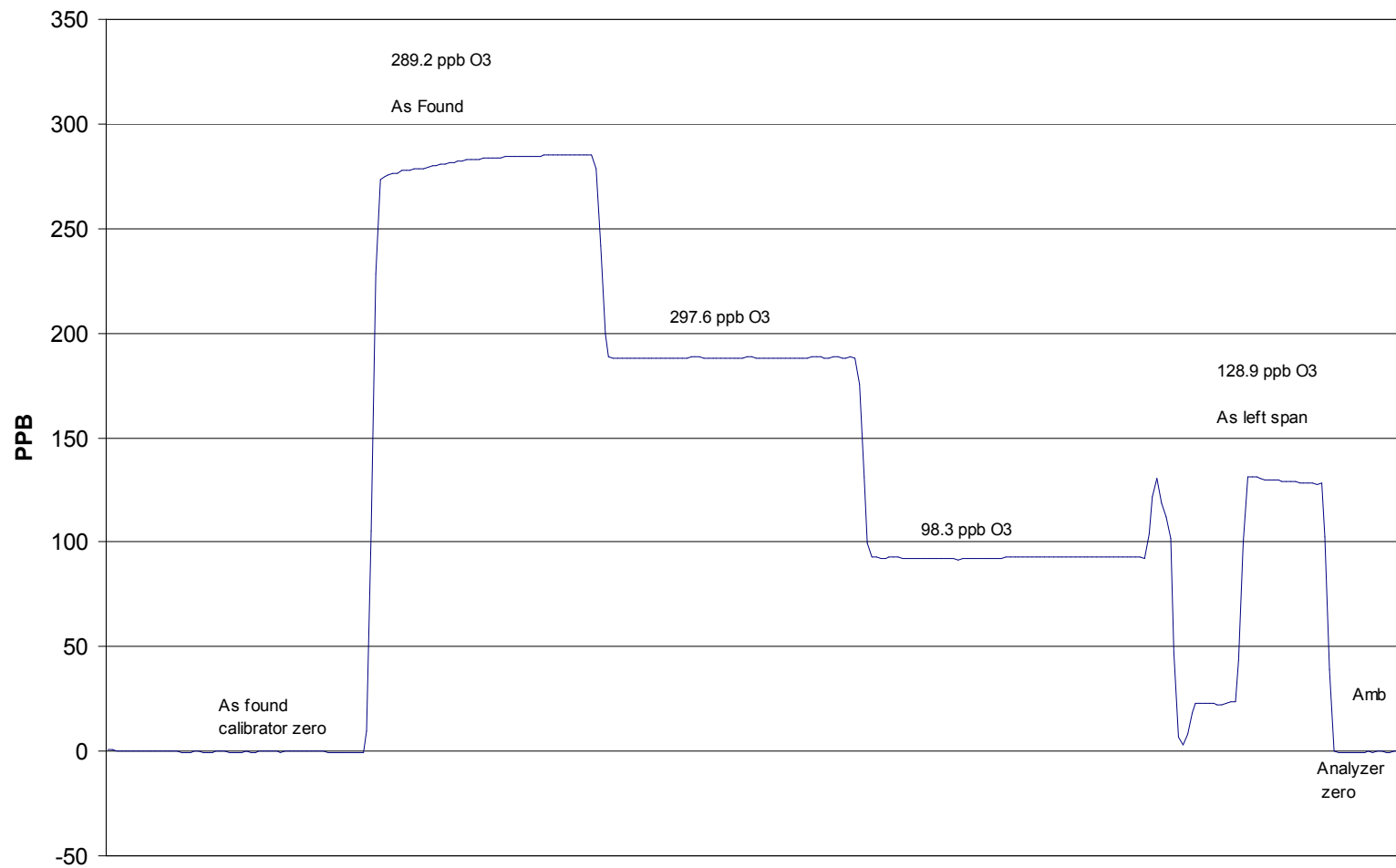
Calibration Date	July 14, 2005	Previous Calibration	June 7, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	13:00	End Time (MST)	15:38
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (lc)	Correction factor (Cc/lc)	Statistical Evaluation			
0.0	0.2	NA				
289.2	284.6	1.0161	Correlation Coefficient	0.999326		
197.6	188.2	1.0503				
98.3	92.6	1.0612			Slope	1.018895
					Intercept	2.206776



O3 Calibration



July 14, 2005

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

Calibration Date	July 17, 2005	Previous Calibration	
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	13:25	End Time (MST)	13:55
Barometric Pressure	0.918 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	2.990	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	22	%	24	%
Ko Factor	14287		14287	
Temperature	24.4	Deg C	24.0	Deg C
Pressure	0.923	ATM	0.930	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.01
zero flow - auxillary	0.0	0.00		0.02
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	25
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	39
Temperature	measured	24.9	+/- 1.0 Deg C	24.4
Pressure	measured	0.918	+/- 1.5% ΔATM	0.924
Total Flow	16.67 SLPM	16.14		
Main Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.67
Auxillary Flow	3.0 SLPM	3.028	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	-0.60
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.04
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes:

Did not do KO Filter, just done with AB ENV audit.

Calibration Performed By: Dawn Ewan