



PEACE AIRSHED ZONE ASSOCIATION
 Air Quality Monitoring Network

March 2005

Prepared by



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Alberta Environment
Enforcement and Monitoring Division
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Edmonton, Alberta, T5K 2J6

Re: Peace Airshed Zone Association – March PASZA Ambient Air Report

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

Continuous Monitoring – Henry Pirker Station (Grande Prairie), Evergreen Park (new) and Smoky Heights (new)

Included in this report is a summary of the, monthly continuous sampling, 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.

During the month of March PASZA began collecting continuous data from the Smoky Heights Station located approximately 70 kilometers northeast of the City of Grand Prairie. The power for the Smoky Heights station was connected on March 8th, 2005 and the start up calibrations were completed on March 9th, 2005. The calculated up-times were based on 22 days for the month of March for Smoky Heights.

Passive Monitoring – 43 Stations throughout the PASZA zone:

There were no missing passives during the month of March. A summary of the passives are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from 0.2 ppb to 0.7 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.4 ppb to 11.6 ppb.
- Monthly average concentrations for O₃ passives ranged from 33.7 ppb to 53.5 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 or 1-888-466-6555.

On Behalf of the,
Peace Airshed Zone Association

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PASZA Technical Program Manager

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PASZA Monthly Continuous Data Summary – Henry Pirker

March 2005 Monthly Overall Summary Report Ambient Air Quality Data

Mar-2005 Peace Airshed Zone Association							Maximum Recorded Values						
Pollutant (units)	Guidelines		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr		Operational Time (%)
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.5	0	0	11.3	Mar-10	4.9	E	1.5	Mar-10	100.0%
NO (ppb)			Henry Pirker	10.3	0	0	126.6	Mar-25	5.2	ESE	34.0	Mar-10	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	15.4	0	0	58.8	Mar-25	5.2	ESE	33.7	Mar-05	100.0%
NO _x (ppb)			Henry Pirker	25.7	0	0	185.8	Mar-25	5.2	ESE	66.7	Mar-10	100.0%
O ₃ (ppb)	82		Henry Pirker	25.1	0	0	50.9	Mar-31	12.1	S	39.8	Mar-30	100.0%
CO (ppm)	13		Henry Pirker	0.33	0	0	2.07	Mar-08	5.6	ESE	0.66	Mar-10	100.0%
THC (ppm)			Henry Pirker	2.21	0	0	3.36	Mar-27	4.4	SSE	2.77	Mar-01	100.0%
TRS (ppb)			Henry Pirker	0.3	0	0	1.3	Mar-08	5.6	ESE	0.7	Mar-25	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	3.9	0	0	29.6	Mar-10	4.5	NW	9.9	Mar-10	100.0%
RH (%)			Henry Pirker	67.8									100.0%
SR (W/m ²)			Henry Pirker	129.1									100.0%
Temp (°C)			Henry Pirker	-0.4									100.0%
WSPD v (km/hr)			Henry Pirker	3.7									100.0%
WSPD s (km/hr)			Henry Pirker	10.6									100.0%
WDIR (Deg)			Henry Pirker	NW*									100.0%

Note: ^a the 24-hr Canada Wide Standard level is considered as an absolute value

* Wind Direction is the predominate direction for the Month

PASZA Monthly Continuous Data Summary – Evergreen Park

March 2005 Monthly Overall Summary Report Ambient Air Quality Data

Mar-2005		Peace Airshed Zone Association					Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Guidelines		Station	Monthly Average	Exceedence		1-hr			24-hr			
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Evergreen Park	0.7	0	0	8.2	Mar-04	9.8	W	1.9	Mar-03	99.6%
TRS (ppb)			Evergreen Park	0.6	0	0	1.5	Mar-05	3.8	SE	0.8	Mar-05	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	3.6	0	0	84.0	Mar-08	N	N	11.4	Mar-08	99.2%
Temp (°C)			Evergreen Park	-0.6									99.7%
WSPD v (km/hr)			Evergreen Park	4.9									97.8%
WSPD s (km/hr)			Evergreen Park	15.4									97.8%
WDIR (Deg)			Evergreen Park	NW*									97.8%

Note: ^a the 24-hr Canada Wide Standard level is considered as an absolute value
* Wind Direction is the predominate direction for the Month

PASZA Monthly Continuous Data Summary – Smoky Heights

March 2005 Monthly Overall Summary Report Ambient Air Quality Data

Mar-2005		Peace Airshed Zone Association					Maximum Recorded Values						
Pollutant (units)	Guidelines		Station	Monthly Average	Exceedence		1-hr				24-hr		Operational Time (%)
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Smoky Heights	0.4	0	0	6.2	Mar-24	16.4	W	1.4	Mar-24	99.7%
TRS (ppb)			Smoky Heights	0.3	0	0	1.0	Mar-28	6.8	SW	0.7	Mar-19	99.7%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	2.9	0	0	71.8	Mar-21	8.5	NNE	7.9	Mar-25	98.6%
Temp (°C)			Smoky Heights	-3.2									99.1%
WSPD v (km/hr)			Smoky Heights	4.6									99.1%
WSPD s (km/hr)			Smoky Heights	13.0									99.1%
WDIR (Deg)			Smoky Heights	NNW*									99.1%

Note: ^a the 24-hr Canada Wide Standard level is considered as an absolute value

* Wind Direction is the predominate direction for the Month

Continuous Monitoring

Ambient Air Monitoring Network

Henry Pirker Station

General Station Issues

No operational problems observed

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational problems observed
NO _x /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	No operational problems observed
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

Continuous Monitoring

Ambient Air Monitoring Network

Evergreen Park Station

General Station Issues

Parameter	Make	Model	Notes
SO ₂	TECO	43	Three hours of data was removed due to excessive drift on March 8.
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	Six hours of excessive drift; PM2.5 max readings were due to bush clearing fire on March 8th
AT	Met One	062-1	Two hours removed due to lightning protection installation
WS	Met One	010C	Two hours removed due to lightning protection installation; addition fourteen hours removed due servicing of wind head
WD	Met One	020C	Two hours removed due to lightning protection installation; addition fourteen hours removed due servicing of wind head

Continuous Monitoring

Ambient Air Monitoring Network

Smoky Heights Station

General Station Issues

The Smoky Heights School station was recently installed, and had power connected on March 8. Analyzers were powered up on March 8 and allowed to stabilize overnight. Startup calibrations were completed on March 9 in the afternoon. The percent operational time for the month was calculated from March 9 at 15:00 to provide a correct representation of operational time.

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational problems observed
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	Two hours of data were removed due to excessive drift
AT	Met One	062-1	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker

Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Good Readings:	706
Number of 1-hr Fair Readings:	2
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

Percentile	99	95	75	50	25	5	1
	24.2	21.5	18.1	15.3	9.3	6.4	5.2

Alberta's Air Quality Index

Good	1 to 25
Fair	26 to 50
Poor	51 to 100
Very Poor	> 100

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
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-Mar-05	6	A	5	6	6	6	7	9	8	12	8	8	9	11	21	10	10	7	8	10	9	10	8	7
2-Mar-05	A	7	6	6	6	7	7	7	7	5	13	15	9	13	16	17	16	12	8	8	8	8	10	A
3-Mar-05	13	13	13	12	10	11	7	9	9	8	8	13	14	17	15	12	13	12	9	8	12	12	A	7
4-Mar-05	6	6	5	5	7	6	7	7	9	11	7	7	7	9	12	16	14	8	9	10	11	A	11	10
5-Mar-05	11	11	10	11	11	10	11	11	11	7	15	15	12	13	11	8	8	10	8	10	A	7	6	8
6-Mar-05	6	16	17	19	18	17	15	14	15	14	9	13	16	17	18	18	17	16	12	A	14	13	8	8
7-Mar-05	9	9	6	7	7	11	10	8	6	6	5	7	11	16	16	17	16	14	A	13	16	14	12	15
8-Mar-05	16	16	15	10	8	9	8	9	14	8	9	8	7	7	10	14	A	10	9	6	6	14	17	
9-Mar-05	19	21	20	19	19	20	21	20	19	20	20	20	21	22	22	20	A	19	19	16	16	16	13	13
10-Mar-05	10	7	8	9	9	9	9	10	9	8	10	9	17	12	12	A	17	22	25	11	9	9	10	7
11-Mar-05	8	8	7	6	12	17	15	15	17	18	18	19	20	19	A	19	19	19	17	17	17	18	18	18
12-Mar-05	19	20	19	19	19	18	18	15	13	15	17	21	21	A	22	21	20	20	17	8	12	20	16	16
13-Mar-05	17	18	16	17	20	19	17	16	18	19	19	21	A	23	24	24	24	21	16	10	10	15	17	19
14-Mar-05	18	18	17	14	13	11	9	6	5	6	18	A	21	21	21	22	23	21	17	15	14	15	17	21
15-Mar-05	20	21	18	19	18	17	17	16	17	17	A	16	16	17	17	18	19	19	18	18	18	18	18	18
16-Mar-05	18	18	17	17	16	16	15	14	14	A	15	A	A	16	15	15	14	12	3	2	3	13	15	
17-Mar-05	15	14	14	14	7	A	9	9	8	8	9	15	15	15	18	18	18	17	15	8	9	12	8	8
18-Mar-05	8	9	7	7	A	16	13	15	18	19	19	19	19	20	20	19	19	18	17	18	17	16	17	17
19-Mar-05	17	17	17	A	17	16	16	16	16	16	16	17	17	17	17	16	15	16	15	16	17	18	18	19
20-Mar-05	19	19	A	19	19	19	19	19	19	19	20	19	19	20	20	20	19	18	16	15	16	17	17	17
21-Mar-05	17	A	17	17	18	17	16	14	14	16	17	19	19	19	20	19	18	18	17	18	18	18	18	18
22-Mar-05	A	18	18	18	18	17	17	17	16	16	17	17	17	17	18	18	18	17	16	15	15	15	12	A
23-Mar-05	6	8	9	9	8	5	5	6	8	12	13	13	16	18	19	19	19	18	17	13	13	10	A	8
24-Mar-05	8	6	14	16	15	15	13	12	13	12	13	15	14	16	17	17	17	16	12	9	9	A	8	8
25-Mar-05	7	7	7	9	9	8	7	9	11	11	16	17	20	22	25	26	25	23	19	10	A	23	18	12
26-Mar-05	11	8	8	8	7	7	17	17	18	18	18	18	18	18	18	21	21	21	19	A	12	7	7	9
27-Mar-05	9	8	8	8	7	8	6	8	11	14	15	20	22	21	21	21	20	20	A	11	9	11	12	11
28-Mar-05	11	11	10	9	7	5	4	5	6	6	8	6	10	16	18	20	22	A	16	12	7	8	14	15
29-Mar-05	12	11	7	13	13	12	9	9	12	15	20	22	23	22	23	22	A	18	13	13	13	18	18	17
30-Mar-05	19	21	21	21	20	20	20	18	20	21	22	23	23	23	23	A	22	21	20	19	18	17	13	13
31-Mar-05	12	14	10	9	8	9	9	7	8	16	23	23	25	26	A	22	23	21	17	20	19	19	19	16

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	11.3 ppb 10-Mar 13:00 14:00
Maximum 24-hr Average:	1.5 ppb 10-Mar

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

AIC Time:	34 hrs	Operational Time:	708 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	50	25	5
	1	Average	
	2.0	1.2	0.6
	0.4	0.2	0.1
	0.0	0.5 ppb	

Status Flag Characters

C Calibration	X AIC - Zero / Span Check
S Instrument out of Service	A 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-Mar-05	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	0.8	1.9
2-Mar-05	A	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	1	1	1	1	1	1	1	A	0.6	1.8
3-Mar-05	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	0	2	1	1	1	0	A	0	0.6	1.6	
4-Mar-05	0	0	0	0	0	0	1	1	1	1	1	1	3	8	6	0	1	1	1	1	1	1	A	1	1	1.3	7.7	
5-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	A	0	0	0	0	0.8	1.3	
6-Mar-05	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.5	
7-Mar-05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.5	
8-Mar-05	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	0	0	0	0.6	1.2	
9-Mar-05	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	0.0	0.2	
10-Mar-05	0	0	0	0	0	0	0	0	0	1	1	1	2	11	6	A	2	2	2	2	1	0	1	0	0	1.5	11.3	
11-Mar-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	0.2	0.5	
12-Mar-05	0	0	1	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
13-Mar-05	0	0	0	0	0	0	0	0	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
14-Mar-05	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
15-Mar-05	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
16-Mar-05	0	0	1	1	1	1	1	0	0	A	0	C	C	A	1	1	1	0	0	0	0	0	1	0	0	0.5	1.2	
17-Mar-05	0	0	1	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0	0.8	2.1	
18-Mar-05	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0.5	0.7	
19-Mar-05	0	0	0	A	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0.3	1.0	
20-Mar-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.4	0.7	
21-Mar-05	1	A	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.0	
22-Mar-05	A	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.2	
23-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0.5	1.0	
24-Mar-05	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	0	A	0	0.5	1.5	
25-Mar-05	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	A	1	1	0.6	1.5	
26-Mar-05	1	0	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	1	1	1	A	0	0	0	0	0.8	1.5	
27-Mar-05	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0.4	1.0	
28-Mar-05	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	A	1	0	0	0	0	0	0.5	1.4	
29-Mar-05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.5	
30-Mar-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	0.2	0.3	
31-Mar-05	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.9	
Hourly Avg	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.7	1.2	1.0	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.3			
Hourly Max	1.2	1.2	1.1	1.1	1.0	1.1	1.3	1.0	1.2	1.1	1.3	1.8	2.9	11.3	6.5	1.2	2.2	2.1	2.0	1.3	0.9	1.3	1.5	1.0				

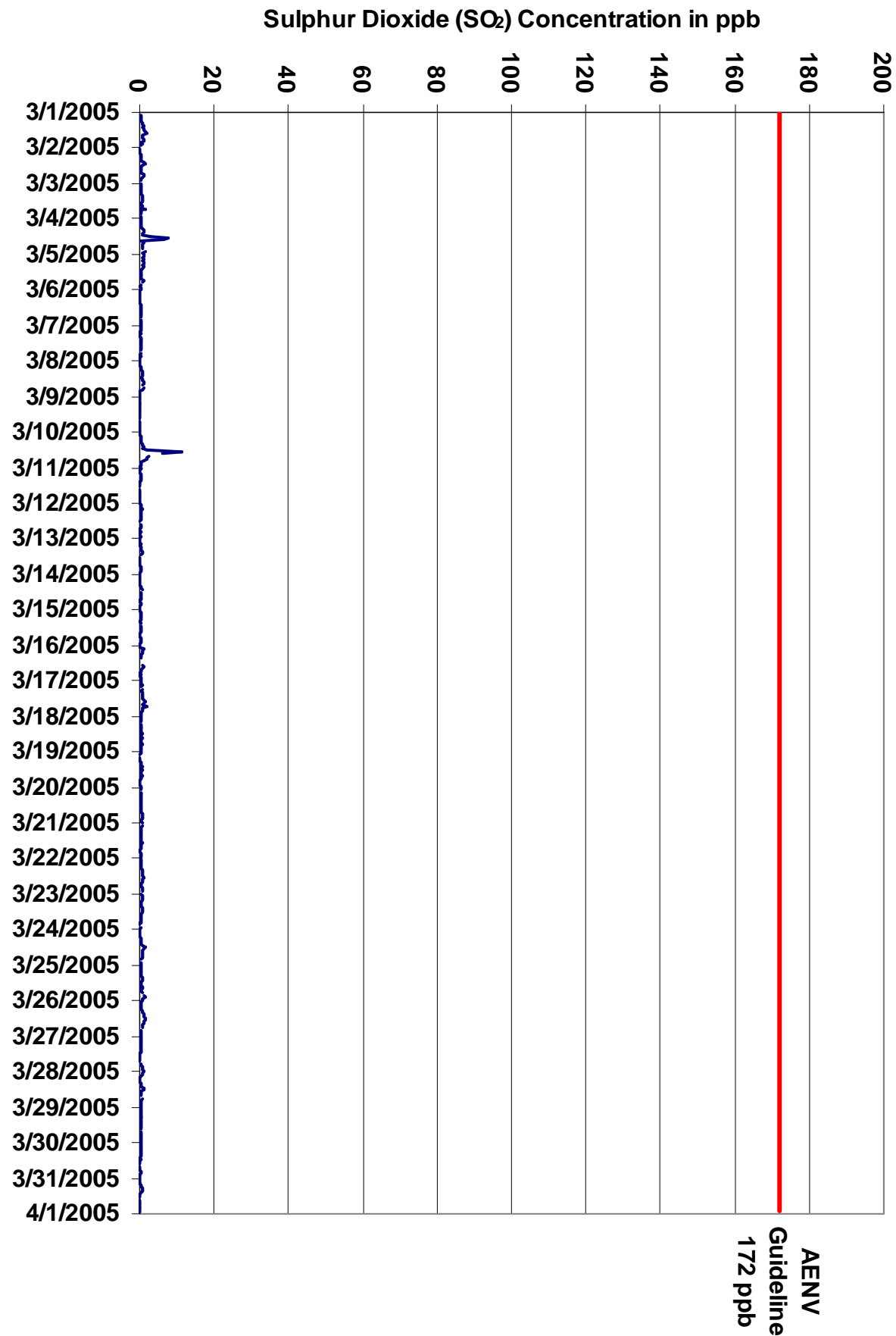


Figure 1. PASZA - Henry Pirkker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Value:	28.5	ppb	10-Mar	13:00 14:00
Maximum 24-hr Value:	3.3	ppb	10-Mar	

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	3.6	2.1	1.3	0.9	0.8	0.6	0.5	1.2 ppb

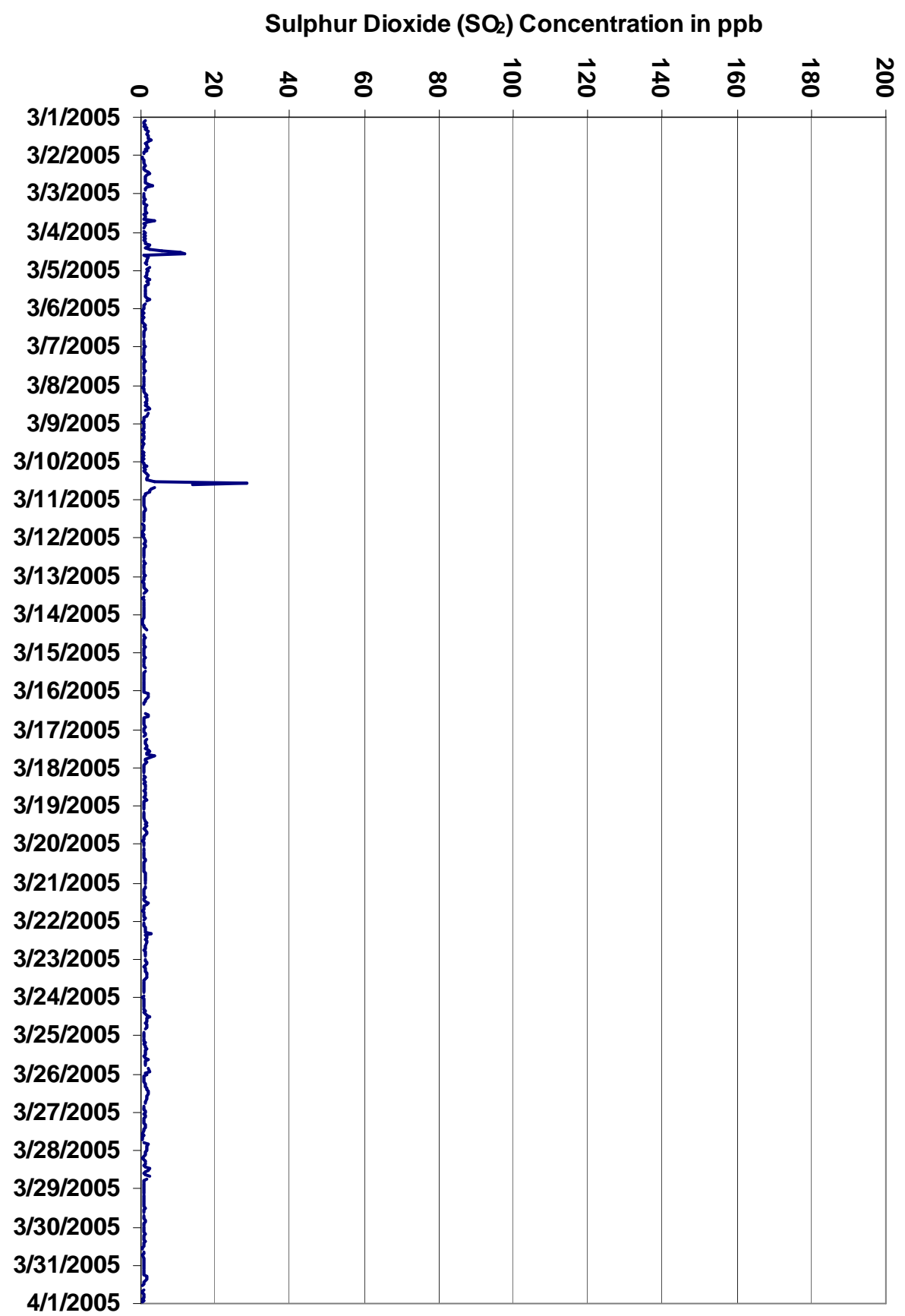
Status Flag Characters

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

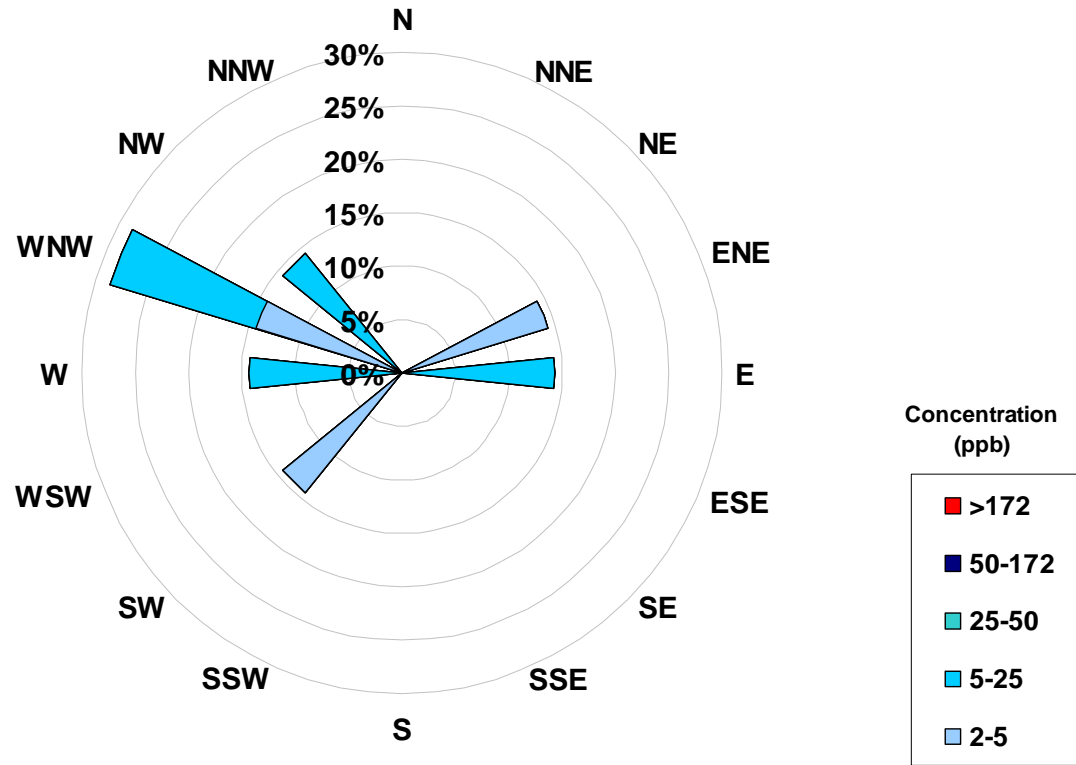
Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05		1	A	1	1	1	1	1	2	1	2	2	2	2	2	3	2	1	2	2	2	1	2	1	1	1	1.5	2.7
2-Mar-05		A	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1	1	1	2	3	2	1	1	A	1	1.3	3.2
3-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	4	1	1	1	1	A	1	1.2	3.8	
4-Mar-05		1	1	1	1	1	1	1	1	2	2	1	2	5	11	12	1	2	2	2	1	2	A	2	2	2.5	11.8	
5-Mar-05		2	2	1	2	1	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	A	1	1	1	1.5	2.3	
6-Mar-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	0.8	1.2	
7-Mar-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	0.8	1.1	
8-Mar-05		1	1	1	1	1	1	1	1	2	2	1	1	1	1	2	2	1	A	2	2	1	1	1	1	1.2	2.3	
9-Mar-05		1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	A	1	1	0	1	1	1	1	0.6	0.9	
10-Mar-05		1	1	1	1	1	1	1	1	2	2	2	2	4	28	14	A	4	3	3	3	1	1	1	1	3.3	28.5	
11-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.2	
12-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
13-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5	
14-Mar-05		1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
15-Mar-05		1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
16-Mar-05		1	1	2	2	2	1	1	1	1	A	1	C	C	A	1	2	2	2	1	1	1	1	1	1	1.2	2.0	
17-Mar-05		1	1	1	1	1	A	2	1	1	1	2	1	1	2	2	2	2	3	1	1	2	1	1	1	1.4	3.5	
18-Mar-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	1.5	
19-Mar-05		1	1	1	A	1	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1.0	1.7	
20-Mar-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	1.3	
21-Mar-05		1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1.0	2.1	
22-Mar-05		A	1	1	1	1	1	1	1	3	1	2	2	1	2	1	1	1	1	1	1	1	1	1	A	1.3	2.7	
23-Mar-05		1	1	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1.1	1.7	
24-Mar-05		1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	A	1	1	1.1	2.2	
25-Mar-05		1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	A	2	2	1	1.2	2.3	
26-Mar-05		2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	A	1	1	1	1	1.3	2.2	
27-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	A	1	2	2	2	2	1.0	1.8	
28-Mar-05		2	1	1	1	1	0	1	1	1	1	1	2	2	1	1	1	3	A	2	1	1	1	1	1	1.2	2.5	
29-Mar-05		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.2	
30-Mar-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	1.1	
31-Mar-05		1	1	1	1	1	1	1	2	2	2	1	1	1	1	A	1	0	0	1	1	1	1	1	1	0.9	1.7	
Hourly Avg		0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	1.2	1.3	1.2	1.3	1.5	2.4	2.0	1.1	1.2	1.2	1.2	1.1	1.0	1.0	1.0	0.9			
Hourly Max		2.0	1.8	2.0	2.0	1.7	1.7	2.3	1.6	2.7	2.1	2.1	2.6	5.5	28.5	13.7	2.3	3.6	3.8	2.6	3.2	1.8	2.0	2.4	1.7			

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



Concentration Rose for the 1-hr SO₂ Average Concentration Occurrences at the Henry Pirker Site for March 2005



Frequency Distribution of SO ₂ in ppb			
Range	Frequency (hrs)		
0 < 2	701		
2 to 5	3		
5 to 25	4		
25 to 50	0		
50 to 172	0		
> 172	0		
Total Non-Zero Values	708		

Calms	
Range	ppb
2-5	0.0%
5-25	0.0%
25-50	0.0%
50-172	0.0%
>172	0.0%

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	58.8 ppb 25-Mar 22:00 23:00
Maximum 24-hr Average:	33.7 ppb 5-Mar

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

AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	
	47 40 25 10 5 2 2	15.4 ppb	

Status Flag Characters

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

Day Mountain Standard Time

Day	0:00	1:00	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	Daily	
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	Average	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-Mar-05	25	A	22	21	24	27	28	37	34	35	27	24	25	34	49	33	22	31	32	43	40	40	33	31	31	31.2	49.2
2-Mar-05	A	29	24	24	26	30	31	28	29	23	35	42	23	15	14	13	14	22	33	30	33	28	21	A	A	25.8	41.9
3-Mar-05	15	13	12	14	18	14	27	39	36	32	25	16	13	10	17	26	21	22	37	29	21	19	A	29	22.0	39.3	
4-Mar-05	24	25	22	21	27	26	30	31	37	35	22	19	28	32	19	14	18	32	38	41	48	A	47	43	29.5	47.6	
5-Mar-05	45	45	43	44	45	44	48	44	46	30	13	15	21	18	23	30	35	24	35	42	A	30	23	32	33.7	48.2	
6-Mar-05	27	8	6	2	2	2	5	8	6	10	21	14	6	4	3	5	6	8	14	A	11	15	23	34	10.4	33.8	
7-Mar-05	40	37	27	28	27	12	11	14	26	25	22	17	10	4	4	4	7	9	A	15	8	12	15	8	16.6	39.6	
8-Mar-05	7	6	8	15	35	38	35	40	40	33	35	34	34	24	23	21	13	A	40	34	26	25	10	5	25.3	40.4	
9-Mar-05	3	2	2	2	2	3	3	5	5	4	4	4	4	3	3	6	A	7	7	8	9	9	12	13	5.2	12.8	
10-Mar-05	21	28	33	39	37	39	38	40	38	34	32	28	31	36	30	A	38	41	42	35	24	23	21	29	32.9	41.5	
11-Mar-05	21	32	29	24	14	4	7	6	5	4	4	4	4	4	A	A	4	5	3	7	7	6	6	5	4	9.1	31.9
12-Mar-05	3	1	1	1	1	2	2	8	11	7	5	2	1	A	2	2	4	5	8	22	16	4	11	6	5.4	21.9	
13-Mar-05	5	2	7	3	2	2	3	3	3	2	3	2	A	1	1	2	2	7	17	28	27	14	10	5	6.5	28.0	
14-Mar-05	7	6	7	9	6	10	11	19	21	22	6	A	3	3	5	4	3	5	12	14	16	14	8	5	9.4	21.7	
15-Mar-05	7	4	5	4	5	5	7	11	9	5	A	7	5	6	8	7	6	7	7	6	5	5	5	5	6.2	11.0	
16-Mar-05	6	4	5	4	4	4	6	8	9	A	5	C	C	C	C	C	7	10	12	13	10	11	9	6	7.3	12.9	
17-Mar-05	7	6	6	6	23	A	39	37	34	27	28	13	14	17	9	10	8	9	14	31	34	19	33	19	19.2	39.5	
18-Mar-05	14	14	18	18	A	10	18	14	9	6	5	5	5	4	5	5	7	8	7	6	5	6	4	4	8.6	18.2	
19-Mar-05	3	3	3	A	4	4	3	5	5	4	4	3	3	3	3	4	5	5	6	6	5	4	4	3	3.9	5.9	
20-Mar-05	3	3	A	3	3	2	2	3	3	3	3	3	3	3	4	5	6	7	9	10	8	7	6	5	4.4	9.6	
21-Mar-05	4	A	4	4	3	5	8	12	13	8	6	5	5	4	4	6	6	7	9	5	5	4	4	3	5.8	12.5	
22-Mar-05	A	2	2	2	3	3	4	3	4	3	2	2	2	2	2	2	2	3	5	6	6	5	11	A	3.5	11.3	
23-Mar-05	26	35	37	37	35	22	21	25	15	9	8	10	6	3	3	4	4	6	9	16	17	22	A	33	17.4	36.9	
24-Mar-05	32	27	11	8	9	9	14	15	13	16	15	10	12	7	6	8	8	10	22	37	38	A	33	19	16.5	38.3	
25-Mar-05	21	19	29	36	36	34	28	27	23	19	14	13	11	7	4	4	4	6	17	42	A	54	59	49	24.2	58.8	
26-Mar-05	46	35	33	34	29	27	11	9	8	8	7	7	9	12	14	8	8	8	11	A	22	30	30	38	19.3	45.6	
27-Mar-05	37	36	35	32	29	32	27	20	12	10	9	4	3	4	3	3	5	5	A	21	39	45	49	45	21.9	48.7	
28-Mar-05	46	40	41	38	28	20	18	19	24	26	18	26	17	9	7	5	4	A	15	20	29	33	15	13	22.2	45.8	
29-Mar-05	18	21	25	15	14	14	19	21	18	11	5	4	3	4	4	4	A	10	22	20	18	9	10	10	13.0	25.3	
30-Mar-05	7	3	3	3	3	4	5	8	5	3	2	2	2	3	3	A	3	5	6	8	10	11	18	16	5.7	17.7	
31-Mar-05	17	13	22	36	35	37	37	29	26	13	3	3	3	2	A	6	2	6	12	5	6	7	7	11	14.8	37.3	
Hourly Avg	18.5	17.2	17.5	17.5	17.7	16.2	17.7	18.9	18.2	15.5	12.9	11.6	10.5	9.7	9.7	8.7	9.5	11.3	17.4	20.7	18.7	17.6	18.4	18.0			
Hourly Max	45.8	45.0	43.3	44.4	44.6	43.6	48.2	44.2	45.8	35.1	35.0	41.9	34.0	35.9	49.2	32.6	38.4	40.5	41.5	43.0	47.6	54.3	58.8	49.5			

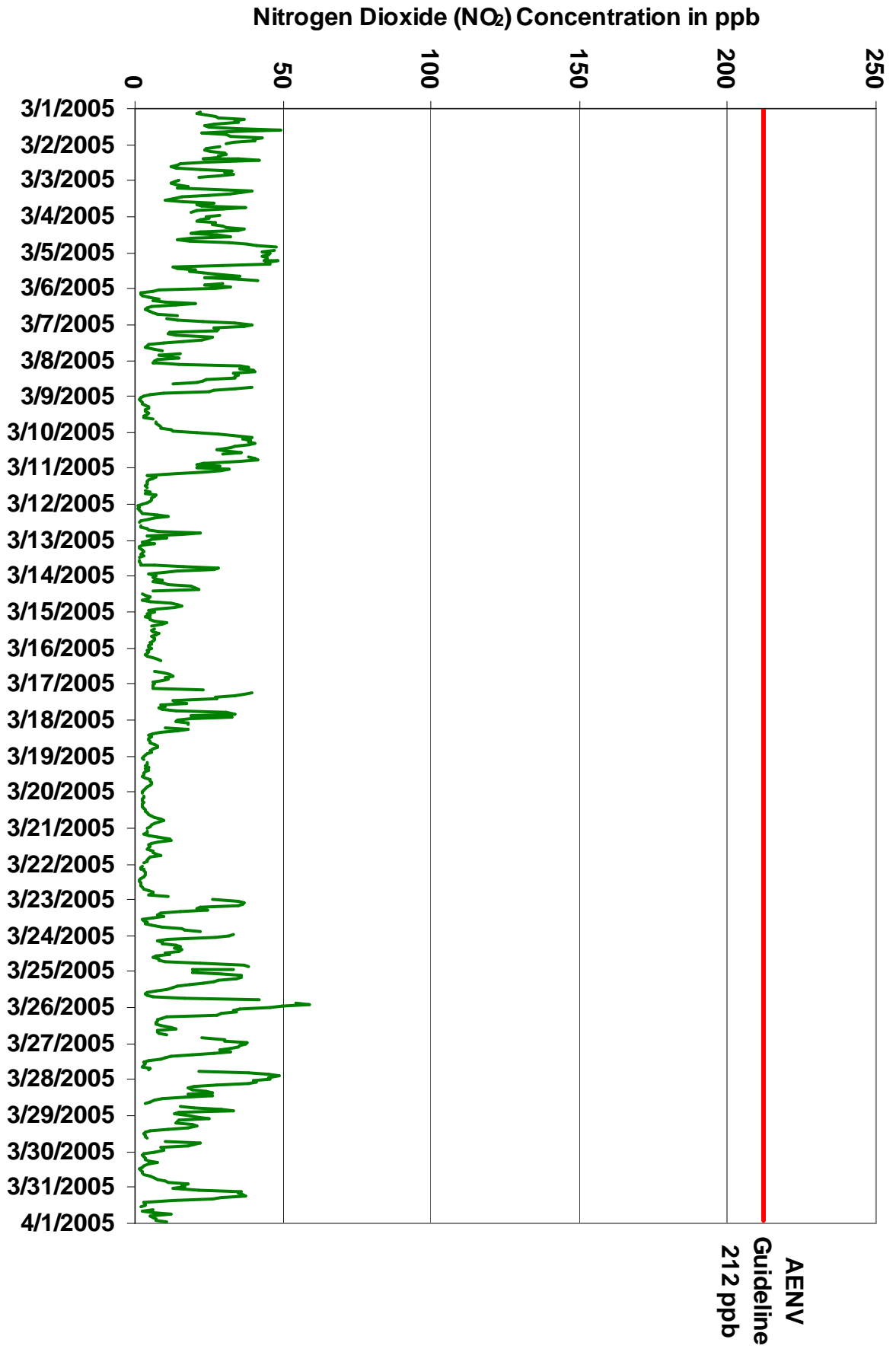


Figure 3. PASZA - Henry Pirkker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Value:	83.2	ppb	25-Mar	22:00 23:00
Maximum 24-hr Value:	42.4	ppb	5-Mar	

AIC Time:	33 hrs	Operational Time:	706 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	57	48	35	17	9	4	3	22.0 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	35	A	30	30	31	31	36	47	43	45	33	42	34	38	57	45	28	40	41	49	44	47	37	33	39.0	57.1	
2-Mar-05	A	32	28	30	31	41	37	34	33	31	41	47	38	25	19	20	20	28	45	42	39	38	28	A	33.0	47.3	
3-Mar-05	20	17	15	16	22	28	41	51	52	37	38	32	16	16	26	40	26	31	47	43	31	30	A	36	31.1	52.0	
4-Mar-05	29	31	29	27	43	33	32	35	47	49	27	28	36	39	29	21	31	39	50	51	54	A	64	46	37.8	63.5	
5-Mar-05	52	50	47	48	49	49	55	53	57	55	29	23	30	31	29	36	39	37	46	49	A	41	34	37	42.4	56.8	
6-Mar-05	34	26	13	3	3	3	18	18	9	20	29	28	9	7	8	12	14	18	23	A	27	26	34	40	18.4	40.5	
7-Mar-05	45	43	38	33	31	26	15	22	36	30	29	20	18	7	6	6	12	18	A	36	11	22	25	12	23.5	44.7	
8-Mar-05	9	10	12	26	41	43	44	46	53	38	42	42	45	31	29	26	22	A	47	47	34	37	37	10	33.5	53.1	
9-Mar-05	6	4	2	3	3	4	6	6	7	6	6	8	7	7	9	10	A	11	11	12	12	13	25	28	9.0	27.8	
10-Mar-05	35	42	39	46	46	43	43	47	48	46	41	37	40	42	41	A	48	52	49	46	38	33	35	36	42.3	51.9	
11-Mar-05	29	35	35	40	35	8	14	10	6	7	8	6	9	6	A	9	10	8	12	12	14	11	9	12	15.0	40.1	
12-Mar-05	8	2	4	3	3	3	5	17	21	9	11	4	4	A	5	4	11	16	16	37	27	9	18	12	10.8	36.9	
13-Mar-05	10	5	24	12	5	4	5	7	4	5	5	5	A	3	4	4	3	14	34	38	43	20	16	11	12.2	43.0	
14-Mar-05	14	11	12	15	10	17	19	24	27	30	13	A	6	5	8	11	7	12	22	19	25	25	11	9	15.3	29.8	
15-Mar-05	15	8	9	11	8	7	10	21	14	8	A	12	12	12	19	18	12	12	12	12	11	13	8	18	12.3	21.3	
16-Mar-05	14	13	9	9	11	11	9	13	15	A	11	C	C	C	C	C	12	14	17	18	14	18	14	9	12.9	18.4	
17-Mar-05	9	8	8	8	34	A	51	40	40	31	37	18	21	27	14	19	11	14	25	47	45	25	44	31	26.5	50.8	
18-Mar-05	24	21	24	29	A	20	29	20	17	9	11	11	7	10	8	9	11	13	15	10	9	9	7	6	14.3	29.4	
19-Mar-05	8	6	6	A	7	6	7	9	10	9	9	7	8	6	6	7	9	7	10	14	12	6	5	4	7.9	14.3	
20-Mar-05	4	4	A	4	5	5	4	6	9	5	4	6	7	9	10	11	11	13	17	14	13	9	8	6	8.1	16.5	
21-Mar-05	5	A	7	13	8	11	19	20	23	15	11	11	9	8	8	13	12	10	14	8	8	6	5	4	10.8	22.7	
22-Mar-05	A	3	3	3	4	6	7	5	6	10	3	4	3	3	3	4	4	5	8	11	9	8	30	A	6.5	30.0	
23-Mar-05	38	39	46	43	46	32	35	33	26	11	11	12	11	9	8	13	6	16	24	21	25	28	A	40	25.0	46.3	
24-Mar-05	40	37	16	10	12	13	19	25	20	18	22	17	17	14	8	14	13	14	47	48	42	A	38	32	23.3	48.1	
25-Mar-05	32	32	34	38	40	59	38	32	29	25	17	17	17	11	7	6	8	13	28	57	A	60	83	55	32.2	83.2	
26-Mar-05	51	40	38	43	35	37	15	14	10	10	10	14	21	18	21	17	13	14	16	A	45	38	40	44	26.3	51.1	
27-Mar-05	44	39	41	40	34	36	35	31	19	13	11	6	4	6	6	9	10	8	A	39	75	51	54	52	28.9	75.5	
28-Mar-05	51	45	46	45	33	42	22	25	38	35	30	33	32	15	10	8	6	A	31	26	35	42	20	21	30.1	51.1	
29-Mar-05	37	36	34	36	21	19	28	24	26	17	9	6	5	6	5	7	A	17	30	30	37	16	14	15	20.6	36.7	
30-Mar-05	9	4	4	5	5	6	6	13	7	6	5	4	6	6	7	A	7	9	9	15	21	20	26	22	9.8	25.7	
31-Mar-05	24	19	35	41	38	45	46	35	33	29	5	7	7	6	A	11	4	14	16	11	11	12	12	13	20.7	45.6	
Hourly Avg	25.2	22.9	23.0	23.7	23.2	23.0	24.2	25.3	25.3	22.0	18.6	17.5	16.6	14.7	14.7	14.7	14.6	17.9	26.3	29.8	27.9	24.5	26.9	24.1			
Hourly Max	51.5	50.4	46.7	48.4	49.2	59.1	54.9	53.0	56.8	54.7	42.1	47.3	44.7	42.3	57.1	45.2	48.4	51.9	50.3	57.3	75.5	60.3	83.2	54.9			

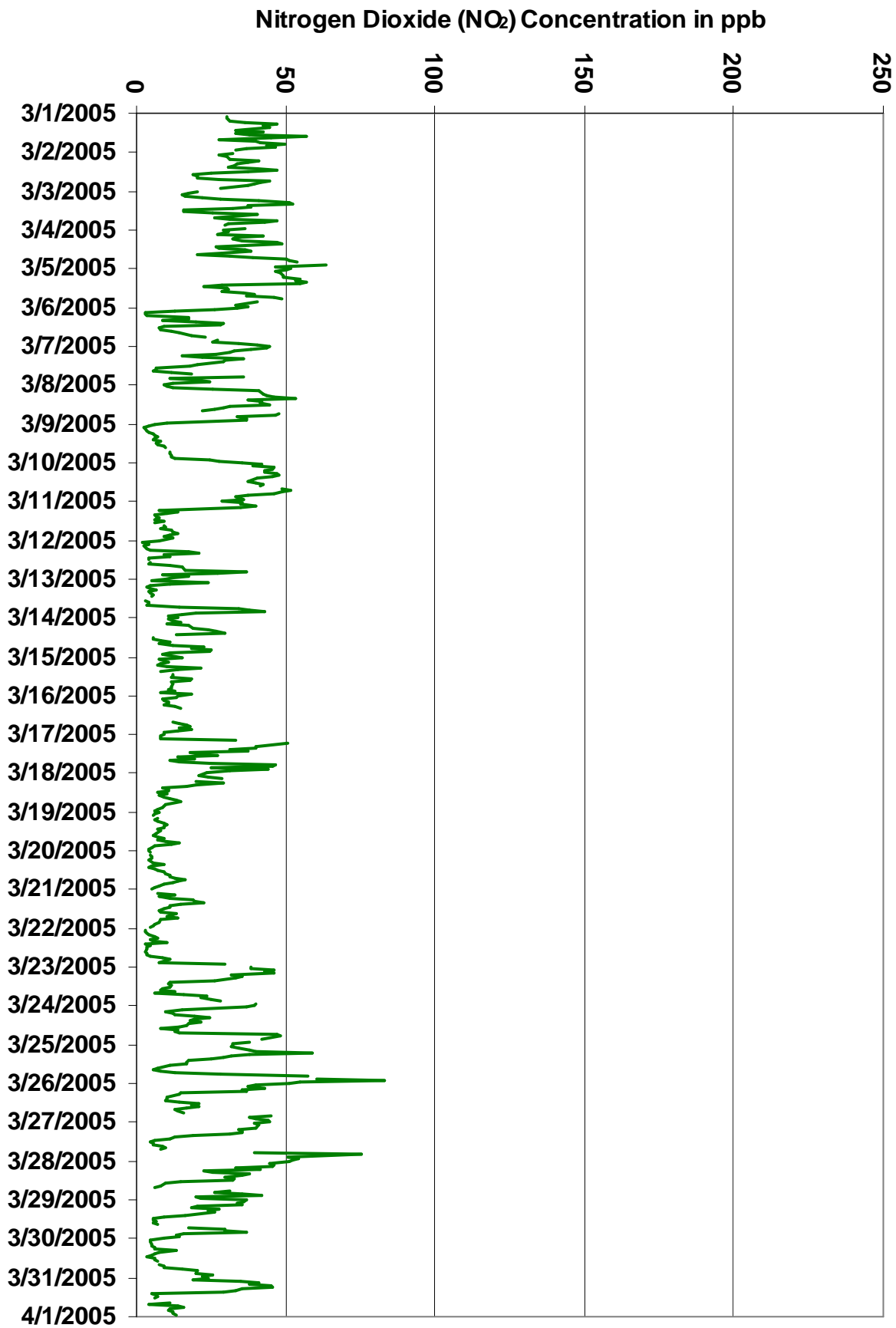
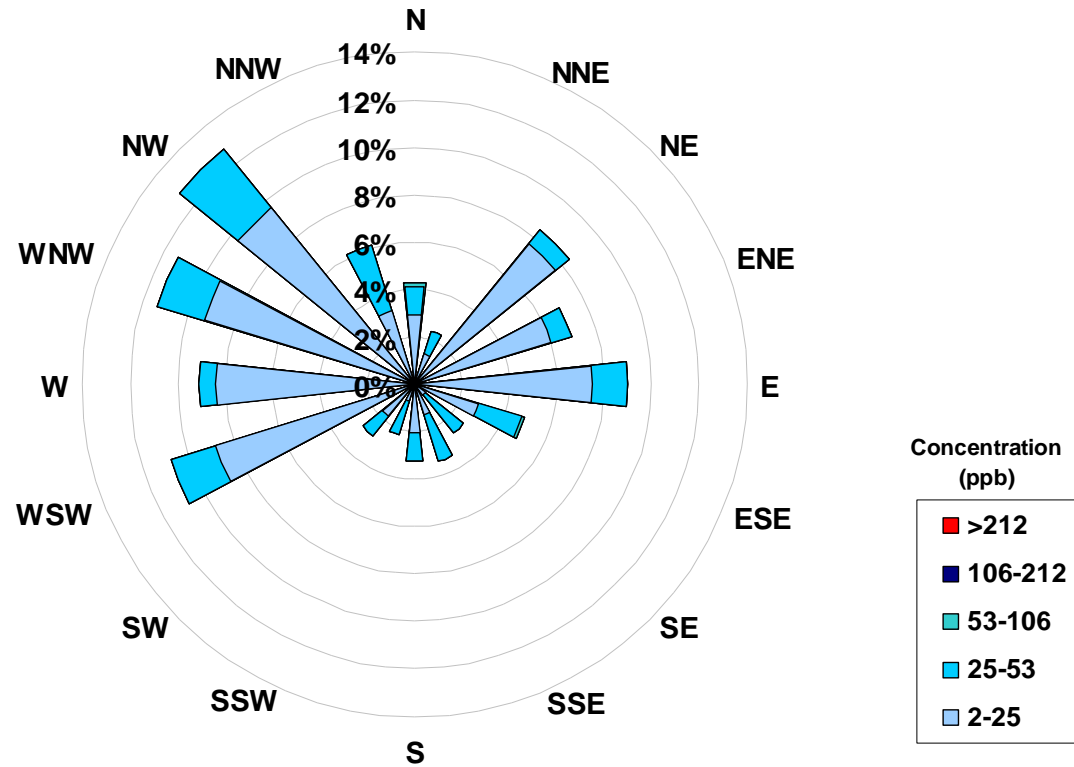


Figure 4. PASZA - Henry Pirkler Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

Concentration Rose for the 1-hr NO₂ Average Concentration Occurrences at the Henry Pirker Site for March 2005



Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
0	<	2	24
2	to	25	504
25	to	53	176
53	to	106	2
106	to	212	0
	>	212	0
Total Non-Zero Values			706

Calms	
Range	
ppb	
2-25	0.0%
25-53	0.0%
53-106	0.0%
106-212	0.0%
>212	0.0%

Station: Henry Pirker

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	127	ppb	25-Mar	22:00 23:00
Maximum 24-hr Average:	34	ppb	10-Mar	

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

AIC Time:	33 hrs		Operational Time:	706 hrs				
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	98	54	9	2	1	0	0	10.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Mar-05	1	A	1	2	2	9	11	64	58	66	32	24	21	36	77	33	11	13	7	62	49	77	16	14	29.9	77.2
2-Mar-05	A	11	6	4	6	20	40	31	27	19	65	83	25	11	6	3	3	3	5	2	3	2	0	A	17.0	82.8
3-Mar-05	0	0	1	1	1	1	5	29	29	22	20	9	7	6	10	18	8	5	12	3	1	1	A	11	8.7	29.2
4-Mar-05	5	7	3	2	13	14	38	54	98	86	37	19	37	43	13	4	6	8	14	11	25	A	97	21	28.5	98.0
5-Mar-05	40	25	30	63	54	76	93	64	104	30	6	5	8	5	7	9	12	2	11	43	A	17	5	39	32.6	103.5
6-Mar-05	22	1	1	1	1	0	0	1	0	1	7	7	3	2	1	2	1	1	1	A	0	0	1	10	2.8	22.4
7-Mar-05	18	4	3	2	2	1	1	2	12	16	17	7	5	2	2	1	1	1	A	2	0	0	0	0	4.3	18.2
8-Mar-05	0	0	0	0	20	37	49	90	89	20	38	33	49	19	13	11	5	A	77	63	13	8	2	0	27.8	90.4
9-Mar-05	0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	2	A	1	0	0	0	0	1	1	0.7	2.0
10-Mar-05	1	3	12	22	38	43	30	42	78	45	38	19	15	24	16	A	69	111	124	46	1	1	1	2	34.0	123.9
11-Mar-05	0	3	8	7	2	1	1	1	1	1	1	2	2	2	A	1	1	0	0	1	1	1	1	1	1.7	8.1
12-Mar-05	1	0	0	0	0	0	0	1	3	2	2	1	1	A	1	0	1	1	0	3	1	0	1	0	0.8	2.7
13-Mar-05	0	0	0	0	0	0	0	0	1	1	1	1	A	1	0	0	0	0	1	1	2	1	1	1	0.7	2.5
14-Mar-05	0	0	0	0	0	1	1	3	6	9	2	A	1	1	1	1	1	1	0	1	1	0	0	0	1.3	9.3
15-Mar-05	0	0	0	1	1	0	1	2	2	2	A	3	3	4	7	7	3	3	3	3	3	3	3	3	2.6	7.4
16-Mar-05	3	4	4	4	4	5	5	6	8	A	6	C	C	C	C	C	3	2	2	1	1	1	1	1	3.4	7.9
17-Mar-05	0	0	0	0	2	A	29	24	54	43	47	14	17	22	6	7	4	3	2	6	4	1	12	1	13.0	53.6
18-Mar-05	1	1	1	3	A	1	2	3	4	3	3	4	4	3	3	3	3	2	2	2	1	1	1	1	2.2	3.7
19-Mar-05	1	1	1	A	1	1	1	2	1	2	4	4	4	4	3	4	4	3	3	3	2	1	1	1	2.3	4.1
20-Mar-05	0	1	A	1	1	1	1	2	3	3	3	4	4	5	4	4	5	4	2	1	1	1	1	1	2.2	4.9
21-Mar-05	0	A	1	1	1	1	2	4	4	4	3	3	2	2	1	2	1	0	0	0	0	0	0	0	1.4	4.4
22-Mar-05	A	1	0	0	0	0	0	0	2	3	1	2	2	2	3	2	1	1	1	1	1	1	1	A	1.2	2.8
23-Mar-05	3	5	13	20	18	3	5	18	15	11	14	15	9	4	3	3	2	2	2	2	1	2	A	11	7.9	19.8
24-Mar-05	8	6	2	2	2	2	4	5	9	20	21	15	18	11	8	8	5	4	6	11	15	A	12	2	8.6	20.6
25-Mar-05	2	2	5	13	15	22	20	41	33	22	14	14	9	4	2	2	2	1	2	3	A	87	127	57	21.7	126.6
26-Mar-05	57	20	24	21	6	6	2	2	2	3	3	4	5	5	4	2	3	2	1	A	2	1	2	15	8.4	56.7
27-Mar-05	25	31	47	59	10	11	9	7	8	7	6	3	2	2	2	1	2	1	A	1	21	58	99	104	22.4	104.4
28-Mar-05	122	93	52	43	10	7	5	13	26	18	12	22	10	4	2	1	1	A	3	1	2	12	0	0	20.0	121.8
29-Mar-05	0	0	1	1	1	1	2	7	10	8	3	2	2	2	1	2	A	2	3	1	1	1	0	0	2.2	10.2
30-Mar-05	0	0	0	0	0	0	1	2	2	1	1	1	1	1	1	A	1	2	1	1	0	0	1	1	0.9	1.8
31-Mar-05	1	1	2	10	14	28	22	12	18	7	2	2	2	1	A	1	1	1	1	0	0	0	0	1	5.4	28.3
Hourly Avg	10.8	7.7	7.3	9.4	7.6	9.8	12.3	17.2	22.8	15.9	13.8	11.1	9.3	7.9	7.2	4.8	5.5	6.3	9.9	9.4	5.3	9.7	13.4	10.3		
Hourly Max	121.8	92.7	51.9	63.1	53.6	76.5	92.6	90.4	103.5	85.8	65.4	82.8	49	42.9	77.2	33.2	69.4	111.3	123.9	63.2	48.8	87.5	126.6	104.4		

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	213.6	ppb	10-Mar	17:00 18:00
Maximum 24-hr Value:	69.1	ppb	10-Mar	

AIC Time:	33 hrs	Operational Time:	706 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	162	93	25	8	3	1	0	21.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Mar-05	7	A	6	7	11	21	34	90	77	145	62	74	45	54	158	58	21	30	27	178	74	123	36	33	59.5	177.7
2-Mar-05	A	25	14	24	26	49	81	58	52	39	85	113	60	30	11	7	4	6	16	7	7	6	1	A	32.7	112.7
3-Mar-05	1	1	1	1	2	9	33	91	97	29	49	28	11	10	18	44	13	10	66	9	6	3	A	28	24.3	96.7
4-Mar-05	26	20	7	11	38	40	53	77	179	148	64	36	76	67	35	9	14	19	41	35	59	A	172	53	55.6	179.4
5-Mar-05	84	45	78	75	80	130	143	117	170	113	23	10	25	15	11	14	17	8	77	76	A	112	36	64	66.2	170.4
6-Mar-05	50	3	2	1	1	1	1	3	1	3	19	19	5	5	4	5	4	2	3	A	4	3	9	29	7.7	50.3
7-Mar-05	35	9	10	5	13	2	3	5	32	26	36	12	11	3	3	2	3	4	A	11	0	2	1	1	10.0	36.5
8-Mar-05	0	1	2	3	31	52	101	117	146	35	69	48	94	31	21	19	12	A	155	145	58	43	34	1	52.9	154.7
9-Mar-05	0	0	0	0	0	1	1	1	2	2	3	4	3	4	4	4	A	3	2	1	1	1	11	4	2.3	11.3
10-Mar-05	3	34	30	47	59	57	60	107	117	111	69	45	30	41	39	A	149	214	169	162	8	24	7	6	69.1	213.6
11-Mar-05	1	6	24	38	9	1	1	2	2	1	3	3	5	3	A	3	3	2	3	2	2	3	2	3	5.3	37.8
12-Mar-05	2	2	1	0	1	1	1	3	6	4	6	2	2	A	2	2	3	5	3	12	7	4	1	2	3.0	11.6
13-Mar-05	2	1	1	1	1	1	1	1	1	3	3	2	A	2	2	1	1	1	4	6	13	2	7	5	2.6	12.6
14-Mar-05	1	3	0	1	1	5	2	8	11	20	5	A	3	2	7	3	2	2	2	2	2	2	1	1	3.7	20.2
15-Mar-05	1	1	2	15	2	1	2	5	3	7	A	11	26	10	26	22	8	11	10	10	9	11	10	17	9.7	26.0
16-Mar-05	12	14	11	13	14	12	12	16	17	A	16	C	C	C	C	C	8	8	12	6	3	6	3	3	10.3	16.9
17-Mar-05	1	0	1	0	8	A	89	45	78	53	69	32	29	40	10	18	11	12	14	28	17	7	39	8	26.5	89.0
18-Mar-05	4	5	5	11	A	4	10	15	7	6	9	12	9	9	7	7	6	6	9	8	4	6	5	5	7.4	15.0
19-Mar-05	8	8	7	A	5	3	8	15	4	7	11	8	11	11	11	13	8	12	9	14	10	5	2	3	8.4	14.8
20-Mar-05	1	3	A	2	4	4	4	10	12	6	5	8	12	11	11	10	18	13	16	9	2	2	2	1	7.2	18.4
21-Mar-05	1	A	1	4	9	5	12	15	17	14	8	20	6	15	5	6	4	2	1	0	1	1	1	0	6.4	19.9
22-Mar-05	A	1	1	1	1	1	1	1	4	17	3	4	4	4	4	5	4	3	4	2	2	3	7	A	3.5	17.2
23-Mar-05	11	13	41	42	48	10	23	30	29	13	85	19	17	17	9	14	9	12	12	13	10	12	A	25	22.3	85.0
24-Mar-05	22	16	8	4	3	4	9	10	22	24	31	28	27	23	12	16	22	7	43	62	41	A	33	7	20.7	62.0
25-Mar-05	5	9	11	22	30	51	51	72	46	36	18	19	18	9	4	6	4	3	6	16	A	132	197	106	37.9	197.1
26-Mar-05	84	44	55	46	16	20	3	5	4	5	4	10	14	13	13	13	13	5	4	A	18	2	13	46	19.6	84.4
27-Mar-05	55	69	86	85	47	25	32	17	14	11	9	5	3	4	4	6	5	3	A	3	89	134	149	135	42.9	149.2
28-Mar-05	157	135	90	58	40	33	16	30	76	38	26	37	35	20	4	3	2	A	7	3	5	34	1	1	37.1	157.4
29-Mar-05	2	2	2	1	1	3	15	13	15	11	6	3	4	4	2	4	A	4	5	4	7	1	1	1	4.9	15.4
30-Mar-05	1	1	1	1	1	1	1	3	2	3	3	2	3	3	3	A	3	3	2	1	1	1	2	5	2.0	5.0
31-Mar-05	3	1	5	32	24	49	52	23	27	26	2	3	3	2	A	3	1	1	1	1	0	1	1	1	11.3	52.2
Hourly Avg	20.1	16.3	16.7	18.3	17.6	19.8	27.6	32.4	41.1	32.0	26.7	21.3	20.3	15.8	15.7	11.2	12.9	14.1	24.8	28.4	15.9	23.5	27.1	20.4		
Hourly Max	157.4	134.7	89.8	85.3	80.2	129.5	143.3	117.5	179.4	147.6	85.0	112.7	94	67.2	157.6	57.5	149.3	213.6	168.6	177.7	88.7	133.9	197.1	135.2		

Station: Henry Pirker

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	186	ppb	25-Mar	22:00 23:00
Maximum 24-hr Average:	67	ppb	10-Mar	

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

AIC Time:	33 hrs		Operational Time:	706 hrs				
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	143	91	33	13	6	3	2	25.7 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-Mar-05	26	A	23	22	27	36	39	101	92	101	59	48	46	71	126	66	34	44	38	104	88	117	49	45	60.9	126.0
2-Mar-05	A	39	30	28	32	50	70	59	56	42	100	124	48	26	21	16	16	25	38	32	36	30	21	A	42.7	124.5
3-Mar-05	15	14	13	14	19	16	32	68	65	54	46	25	20	16	26	44	29	27	49	32	22	19	A	40	30.7	68.3
4-Mar-05	29	32	24	23	40	40	67	85	134	121	59	38	65	75	31	19	25	39	51	52	72	A	144	64	57.8	143.5
5-Mar-05	85	70	73	107	98	120	141	108	149	60	19	20	29	24	30	38	47	25	46	84	A	47	28	71	66.0	149.0
6-Mar-05	50	9	7	3	3	3	5	8	7	11	28	21	9	6	5	6	7	8	15	A	11	14	24	43	13.2	49.5
7-Mar-05	58	40	29	31	29	13	12	16	38	41	39	24	15	6	6	4	8	10	A	17	8	12	15	8	20.8	57.7
8-Mar-05	7	6	8	15	55	76	84	130	129	53	73	67	83	43	36	32	18	A	116	97	39	33	11	6	53.0	130.0
9-Mar-05	3	2	2	2	2	3	4	5	6	5	5	6	6	4	4	8	A	8	7	8	9	9	13	14	5.9	13.6
10-Mar-05	22	31	45	62	75	82	68	82	116	78	70	47	47	60	46	A	108	152	165	81	25	24	21	30	66.7	165.2
11-Mar-05	21	35	37	30	17	5	8	7	6	5	5	5	5	6	A	5	6	4	8	8	6	6	6	5	10.8	37.2
12-Mar-05	3	1	1	1	1	2	2	8	14	9	7	3	2	A	3	3	5	5	9	24	17	5	11	6	6.2	24.3
13-Mar-05	5	3	7	3	2	2	3	4	3	3	5	2	A	2	2	2	2	7	17	29	29	15	11	6	7.1	29.0
14-Mar-05	7	6	7	9	6	10	12	22	26	31	8	A	3	4	6	5	3	6	13	15	16	14	8	4	10.5	30.9
15-Mar-05	7	4	6	4	6	6	7	12	11	7	A	10	9	10	16	14	9	10	10	9	8	9	8	8	8.7	15.8
16-Mar-05	9	8	8	8	8	8	11	14	17	A	11	C	C	C	C	C	10	12	13	14	11	12	11	7	10.7	16.7
17-Mar-05	7	6	6	6	25	A	69	61	87	70	75	27	31	40	15	17	12	13	16	37	38	20	45	20	32.4	87.5
18-Mar-05	15	15	19	21	A	12	20	17	12	9	8	9	8	8	9	9	10	10	9	8	6	7	5	4	10.8	20.9
19-Mar-05	4	4	4	A	5	5	5	6	6	6	8	7	6	7	6	8	9	8	9	9	8	5	5	5	6.3	9.0
20-Mar-05	3	3	A	4	4	3	4	5	5	5	6	7	8	8	8	9	11	11	11	10	9	7	6	6	6.8	11.1
21-Mar-05	5	A	5	5	4	5	9	16	17	13	9	8	8	7	5	8	7	7	8	4	3	3	4	3	7.1	17.1
22-Mar-05	A	3	2	2	3	3	4	4	5	6	3	3	4	4	4	5	4	4	6	7	8	6	12	A	4.7	12.4
23-Mar-05	29	40	50	56	53	25	26	43	30	20	21	25	15	7	7	7	6	8	11	18	19	25	A	44	25.5	56.5
24-Mar-05	41	34	14	10	12	12	18	21	23	36	36	25	30	18	15	16	14	15	28	48	54	A	46	22	25.5	53.9
25-Mar-05	23	22	34	49	52	57	48	68	57	41	29	27	20	12	6	5	6	7	19	45	A	142	186	106	46.1	185.8
26-Mar-05	103	56	58	56	36	33	12	12	10	11	11	11	15	18	19	10	11	11	13	A	24	31	32	53	28.0	102.6
27-Mar-05	62	67	83	92	39	43	36	27	21	17	15	8	5	6	5	4	7	6	A	22	60	103	149	150	44.6	150.0
28-Mar-05	168	133	93	82	38	27	23	33	50	44	31	48	27	14	9	7	5	A	18	21	31	45	15	14	42.5	168.1
29-Mar-05	19	21	26	16	15	15	22	28	28	19	8	6	5	6	5	6	A	13	25	21	19	9	10	10	15.3	28.2
30-Mar-05	7	3	3	3	4	4	5	10	7	4	4	3	3	4	4	A	5	7	8	8	11	11	18	17	6.6	18.3
31-Mar-05	18	14	23	46	49	65	60	42	45	20	5	5	5	3	A	8	3	7	13	5	6	7	7	11	20.2	65.2
Hourly Avg	29.3	24.9	24.7	27.0	25.2	26.0	30.0	36.2	41.0	31.4	26.7	22.8	19.9	17.8	16.9	13.6	15.0	17.6	27.2	30.0	23.9	27.2	31.8	28.3		
Hourly Max	168.1	133.5	93.2	107.0	97.7	119.8	140.6	130.0	149.0	120.7	100.2	124.5	83	75.0	126.0	65.7	107.5	151.7	165.2	104.5	88.4	142.0	185.8	150.0		

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	280.9	ppb	25-Mar	22:00 23:00
Maximum 24-hr Value:	108.2	ppb	10-Mar	

AIC Time:	33 hrs	Operational Time:	706 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	208	142	56	25	13	6	4	42.5 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	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	Daily
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Average	Maximum
1-Mar-05	41	A	36	37	41	52	70	133	111	187	93	116	78	90	210	102	48	68	66	222	114	165	70	65	96.3	222.1
2-Mar-05	A	56	41	54	56	90	111	88	83	69	124	158	96	55	29	27	24	34	60	48	46	44	29	A	64.6	157.9
3-Mar-05	20	18	16	17	23	36	74	139	147	66	86	60	27	26	44	85	39	41	111	52	36	32	A	59	54.5	146.8
4-Mar-05	53	50	36	38	72	73	82	107	223	189	89	60	111	104	63	29	44	54	90	84	106	A	220	93	90.0	223.5
5-Mar-05	134	89	119	117	119	175	195	156	226	165	51	28	55	45	39	48	54	45	123	120	A	151	69	100	105.4	225.9
6-Mar-05	82	29	14	4	3	4	19	20	9	22	48	47	14	12	13	17	18	20	26	A	31	25	41	68	25.5	81.6
7-Mar-05	72	49	45	36	41	27	18	26	67	56	66	32	29	9	9	7	15	22	A	46	12	23	25	13	32.4	71.9
8-Mar-05	9	11	13	28	69	94	143	157	191	73	110	88	137	61	47	43	33	A	202	191	91	80	70	11	84.9	201.8
9-Mar-05	7	4	3	3	3	5	6	7	9	9	8	11	10	11	12	14	A	14	14	12	12	13	36	31	11.1	35.8
10-Mar-05	38	71	66	92	95	98	96	154	160	156	108	82	67	82	80	A	190	260	208	203	44	53	41	42	108.2	260.4
11-Mar-05	30	41	58	77	43	9	15	13	8	8	11	8	14	9	A	13	13	10	15	14	15	14	11	15	20.2	77.4
12-Mar-05	10	3	5	2	4	4	5	20	27	13	18	6	6	A	7	5	14	21	18	46	29	13	18	13	13.4	46.4
13-Mar-05	12	6	25	12	5	4	5	8	5	8	8	7	A	4	6	4	4	15	36	44	53	21	21	16	14.5	53.3
14-Mar-05	14	11	12	14	10	21	21	32	37	49	18	A	9	7	16	14	10	13	24	21	27	26	11	9	18.4	48.8
15-Mar-05	14	8	11	25	10	8	12	25	17	14	A	23	34	19	41	35	20	23	20	21	18	23	18	35	20.7	41.0
16-Mar-05	26	26	18	19	21	21	19	25	31	A	25	C	C	C	C	C	20	20	25	24	17	23	17	11	21.6	30.8
17-Mar-05	10	8	9	8	42	A	138	80	118	83	107	46	48	67	24	37	19	25	38	69	61	32	82	39	51.8	138.1
18-Mar-05	28	27	28	40	A	22	40	35	24	14	17	21	14	19	14	16	17	19	23	15	13	12	9	11	20.7	39.6
19-Mar-05	14	12	12	A	11	9	15	20	14	16	19	15	17	18	16	19	17	16	16	23	22	9	7	6	14.8	22.8
20-Mar-05	5	6	A	6	8	7	7	14	20	11	9	14	18	17	19	22	28	22	25	20	14	11	9	7	13.9	27.8
21-Mar-05	6	A	8	16	13	13	31	30	38	28	19	30	15	22	13	18	16	12	15	7	8	8	6	4	16.3	37.7
22-Mar-05	A	4	4	3	5	7	8	6	10	23	6	8	7	7	7	8	7	7	11	13	12	10	37	A	9.5	36.8
23-Mar-05	49	51	87	82	93	41	57	59	56	25	37	30	29	21	17	27	14	23	36	29	35	35	A	64	43.5	93.0
24-Mar-05	62	50	23	15	15	16	29	35	41	42	53	45	44	37	20	30	33	20	90	110	82	A	71	39	43.6	109.9
25-Mar-05	38	40	45	60	69	108	89	103	73	60	36	36	35	20	11	12	12	16	33	68	A	188	281	157	69.1	280.9
26-Mar-05	129	83	88	81	50	56	18	18	14	16	14	24	35	30	32	30	26	18	18	A	61	40	54	87	44.4	128.5
27-Mar-05	99	105	124	123	73	56	63	43	33	24	20	11	7	10	9	15	15	11	A	42	164	182	198	184	70.1	197.8
28-Mar-05	203	176	124	102	72	69	36	56	114	71	56	70	67	27	14	11	9	A	38	27	41	74	21	22	65.2	202.6
29-Mar-05	39	38	37	37	21	22	43	37	41	27	15	9	9	10	8	11	A	21	34	32	43	18	14	15	25.3	43.3
30-Mar-05	10	5	5	6	6	6	7	16	10	9	8	6	10	9	11	A	11	12	11	16	22	20	27	26	11.7	26.6
31-Mar-05	27	19	40	70	57	93	98	57	60	55	7	9	10	8	A	15	5	15	17	12	11	12	13	14	31.4	98.2
Hourly Avg	44.2	37.8	38.4	40.8	38.4	41.5	50.8	55.4	65.0	52.9	42.9	38.0	36.3	29.6	29.7	25.5	26.8	30.9	49.7	56.3	42.8	46.8	52.6	43.3		
Hourly Max	202.6	175.6	123.7	122.7	119.5	174.8	195.5	157.2	225.9	189.3	124.3	157.9	137	104.5	210.3	101.8	190.2	260.4	208.5	222.1	164.0	188.0	280.9	184.4		

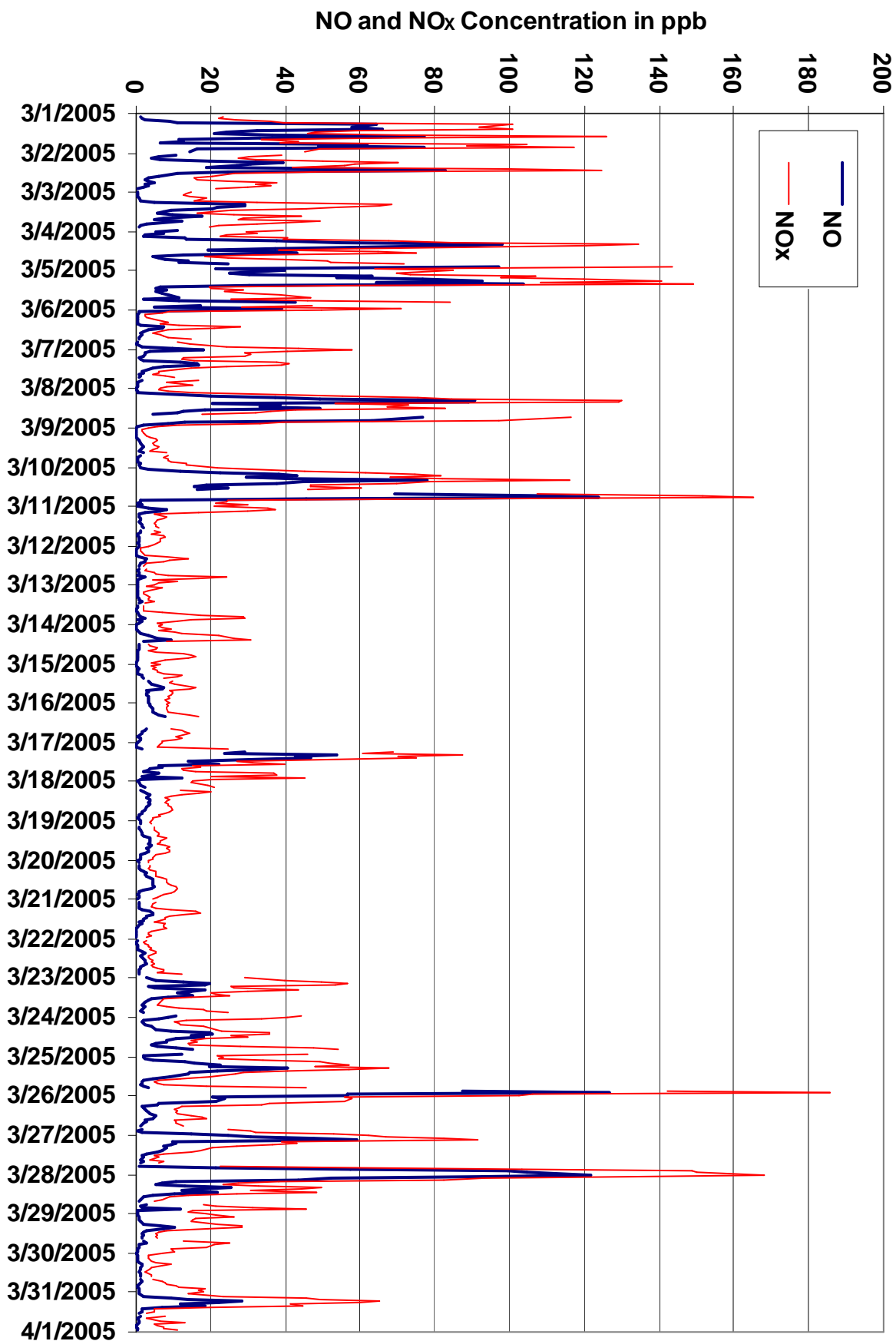


Figure 5. PASZA - Henry Pirkler Oxides of Nitrogen 1-hr Average Monthly Trends

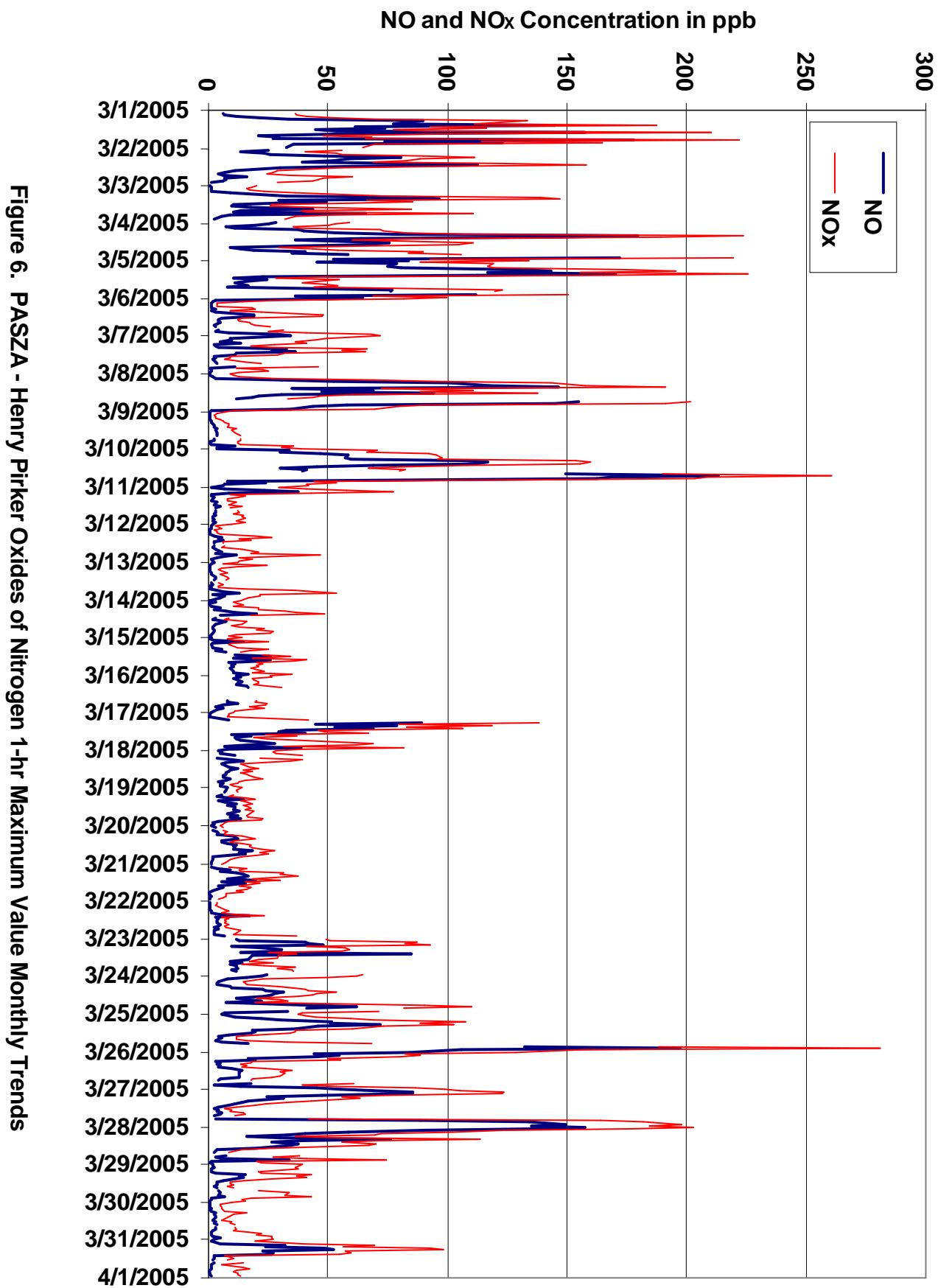


Figure 6. PASZA - Henry Pirkker Oxides of Nitrogen 1-hr Maximum Value Monthly Trends

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Ozone (O₃)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	50.9	ppb	31-Mar	13:00 14:00
Maximum 24-hr Average:	39.8	ppb	30-Mar	

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

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	48	43	36	30	13	0	0	25.1 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	2	A	11	12	7	3	3	0	1	4	9	17	18	13	10	15	20	12	10	0	0	0	0	0	0	7.3	19.8	
2-Mar-05	A	1	2	3	2	0	0	0	2	7	6	8	18	26	31	35	33	24	13	15	12	16	19	A	A	12.5	34.7	
3-Mar-05	26	26	26	25	20	23	10	2	8	9	15	25	29	33	30	23	26	24	8	15	23	25	A	1	1	19.7	33.3	
4-Mar-05	4	4	6	7	0	0	0	0	1	4	8	14	11	12	24	33	29	15	10	8	1	A	1	1	1	8.3	32.9	
5-Mar-05	0	0	1	0	0	1	0	1	1	13	29	31	24	26	22	16	11	19	8	1	A	3	5	0	0	9.2	31.0	
6-Mar-05	3	31	33	38	36	33	31	28	29	28	19	26	32	33	36	37	34	32	24	A	28	25	16	4	4	27.7	38.1	
7-Mar-05	2	3	10	5	4	22	20	16	5	5	7	14	23	32	32	34	31	28	A	25	31	28	24	31	31	18.7	33.7	
8-Mar-05	32	32	29	20	1	0	0	1	2	5	4	4	8	14	15	19	28	A	2	0	2	5	27	34	34	12.4	34.0	
9-Mar-05	38	42	40	39	39	41	42	40	39	40	40	41	41	43	44	40	A	38	37	33	32	32	27	27	27	38.0	43.9	
10-Mar-05	19	11	3	0	1	0	0	1	3	8	13	18	14	12	13	A	2	1	1	7	17	19	21	10	10	8.5	20.7	
11-Mar-05	17	4	2	11	24	35	30	29	34	36	36	38	39	39	A	39	37	38	34	34	34	35	36	36	36	30.4	39.1	
12-Mar-05	37	40	38	38	38	36	36	29	26	31	35	41	43	A	43	43	41	40	34	16	24	41	31	32	32	35.3	43.5	
13-Mar-05	34	36	31	34	39	38	34	33	35	37	38	42	A	46	48	48	49	41	32	19	19	30	33	38	38	36.4	48.5	
14-Mar-05	35	36	35	29	27	21	17	12	11	13	36	A	43	43	42	44	45	42	33	30	27	30	35	42	42	31.6	45.0	
15-Mar-05	40	41	36	38	36	34	33	33	34	33	A	32	33	34	34	37	38	39	36	36	36	37	36	36	36	35.6	41.2	
16-Mar-05	35	35	33	33	33	32	30	28	27	A	30	31	32	32	32	31	30	27	24	C	C	A	26	30	30	30.6	35.5	
17-Mar-05	29	28	28	29	14	A	3	5	8	14	18	29	30	30	36	36	36	35	30	16	12	23	8	15	15	22.4	36.5	
18-Mar-05	17	17	14	14	A	32	25	30	35	39	39	38	39	40	39	39	37	35	35	35	35	33	34	33	33	31.9	39.9	
19-Mar-05	34	34	34	A	33	33	33	32	32	33	32	33	34	34	34	32	31	31	31	32	34	36	37	37	37	33.3	37.5	
20-Mar-05	37	37	A	38	39	39	39	39	38	39	39	38	38	39	40	41	39	36	32	30	31	33	34	34	34	36.9	40.6	
21-Mar-05	35	A	35	35	35	35	32	28	28	32	35	37	37	38	40	37	36	36	34	37	36	36	35	36	36	35.0	39.5	
22-Mar-05	A	37	37	36	35	34	34	34	33	33	33	33	33	34	35	35	35	34	32	30	30	31	25	A	31	33.4	36.8	
23-Mar-05	12	5	3	2	1	10	10	7	15	23	25	26	32	36	39	39	38	36	33	27	25	20	A	5	5	20.5	38.9	
24-Mar-05	3	6	27	32	31	30	27	24	26	23	26	29	28	32	34	34	35	33	24	8	2	A	3	16	16	23.1	34.6	
25-Mar-05	14	15	6	1	0	0	1	3	12	22	31	35	39	44	49	51	49	47	38	14	A	3	2	1	1	20.8	50.9	
26-Mar-05	1	0	0	0	2	8	34	35	36	35	36	36	37	35	37	42	42	42	38	A	23	14	13	3	3	23.9	42.4	
27-Mar-05	1	0	0	0	4	0	8	16	22	27	30	40	43	42	42	41	40	41	A	22	7	2	1	0	0	18.8	43.1	
28-Mar-05	1	0	0	0	0	3	5	7	9	10	16	12	20	32	37	40	43	A	31	24	14	8	28	31	31	16.2	43.4	
29-Mar-05	24	22	15	25	25	23	18	18	23	30	39	43	45	45	45	45	A	36	26	25	26	36	35	35	35	30.7	45.3	
30-Mar-05	37	41	43	42	40	40	39	36	39	42	44	46	46	46	46	A	45	43	40	39	36	35	25	26	26	39.8	45.6	
31-Mar-05	25	29	19	2	0	0	4	14	15	33	45	47	49	51	A	44	46	41	35	41	38	37	37	32	32	29.8	50.9	
Hourly Avg		20.5	21.2	19.9	19.6	18.9	20.2	19.3	18.7	20.3	23.6	27.2	30.2	31.9	33.9	34.9	36.1	34.7	32.6	26.5	22.1	22.8	24.0	22.5	21.7	21.7		
Hourly Max		40.1	41.8	42.9	41.9	40.3	40.8	42.0	40.0	39.1	42.1	45.3	47.0	49.4	50.9	49.4	50.9	49.0	46.9	40.4	40.6	38.4	40.7	37.1	42.3	42.3		

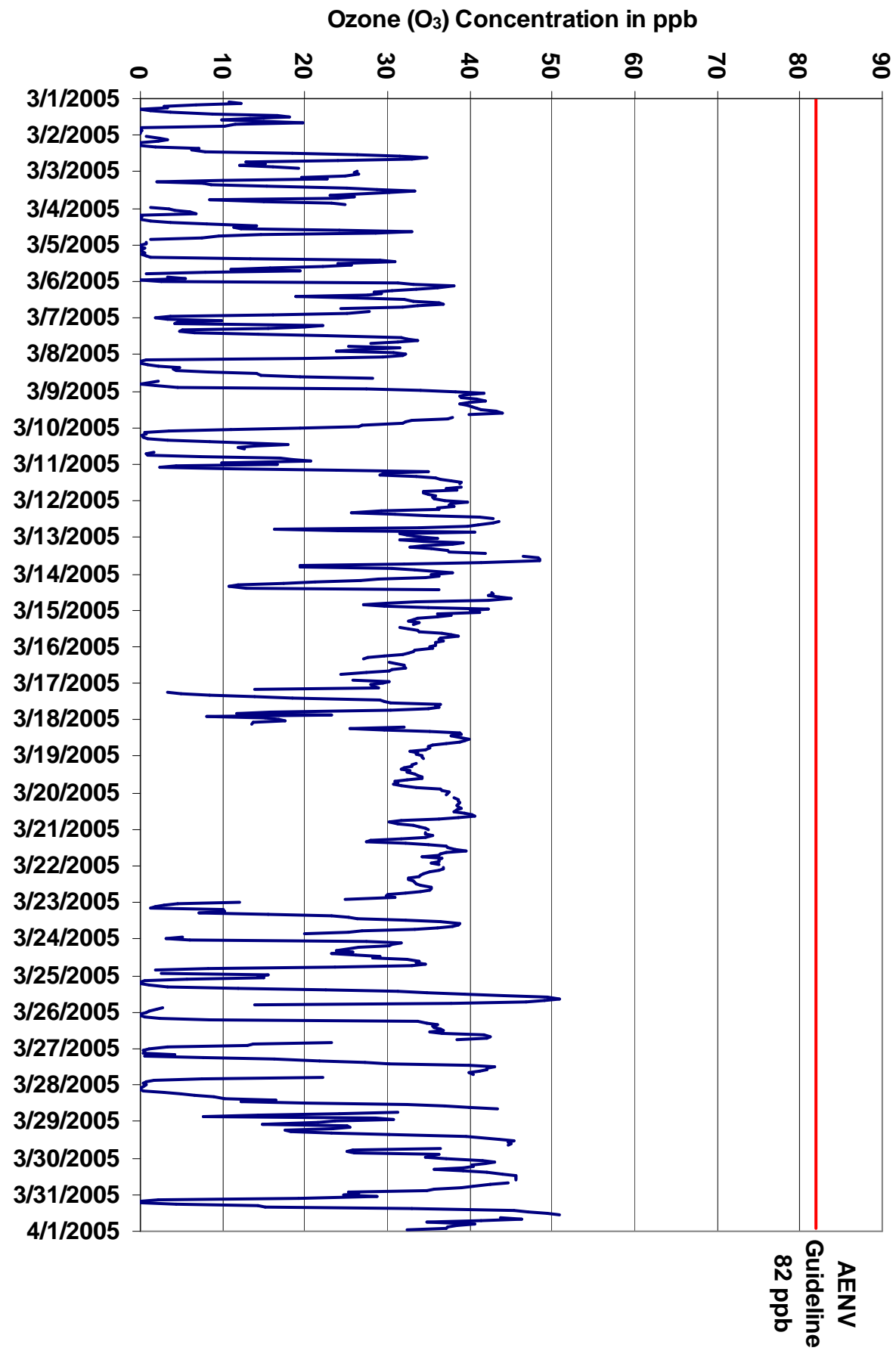


Figure 7. PASZA - Henry Pirkker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Ozone (O₃)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Maximum 1-hr Value:	54.1	ppb	25-Mar	15:00 16:00
Maximum 24-hr Value:	43.1	ppb	30-Mar	

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	51	46	39	34	21	2	1	29.6 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-Mar-05	25	A	21	21	15	14	9	2	2	7	20	23	23	17	14	18	23	19	17	3	0	2	1	1	13.0	25.2	
2-Mar-05	A	3	7	8	5	3	1	1	4	11	9	12	28	32	34	39	38	29	27	25	21	26	26	A	17.7	39.0	
3-Mar-05	35	28	29	28	25	29	18	8	23	12	24	28	33	35	36	30	31	31	19	27	31	30	A	8	26.0	35.8	
4-Mar-05	14	15	15	15	2	3	1	2	3	7	14	20	19	22	40	41	36	26	23	19	17	A	2	4	15.6	40.6	
5-Mar-05	1	1	2	1	2	2	1	7	3	20	35	37	34	30	27	20	18	33	20	7	A	8	11	1	14.0	36.9	
6-Mar-05	15	40	37	40	38	35	35	33	33	37	26	33	33	37	39	39	38	38	35	A	33	34	29	13	33.4	39.7	
7-Mar-05	8	9	22	10	10	27	24	18	12	10	11	18	30	33	35	36	35	34	A	36	33	33	29	34	23.8	35.8	
8-Mar-05	36	35	33	28	10	1	2	3	4	8	7	6	15	17	21	33	34	A	9	1	8	9	35	40	17.2	39.9	
9-Mar-05	42	43	41	40	41	43	44	42	40	42	42	43	46	45	46	44	A	41	42	36	35	35	37	35	41.1	46.4	
10-Mar-05	29	20	14	5	4	1	2	3	7	12	22	30	24	23	16	A	4	2	4	21	29	29	33	16	15.3	33.4	
11-Mar-05	22	16	7	24	38	38	33	33	37	39	38	40	41	41	A	43	42	41	39	39	39	39	38	38	34.9	42.8	
12-Mar-05	40	42	40	39	40	38	38	35	31	34	41	44	45	A	45	45	44	42	41	26	43	47	40	37	39.9	46.6	
13-Mar-05	37	39	38	37	41	40	37	35	37	40	41	44	A	48	51	51	50	49	42	25	29	35	41	40	40.3	50.6	
14-Mar-05	40	42	38	34	31	28	24	18	16	30	41	A	44	45	45	46	47	46	41	33	31	37	38	46	36.6	47.3	
15-Mar-05	45	45	40	40	40	36	39	40	38	39	A	34	35	36	37	40	40	41	40	39	39	39	37	38	38.9	44.9	
16-Mar-05	37	37	37	35	35	34	32	30	29	A	32	33	33	34	34	34	32	29	27	C	C	A	29	32	32.8	37.4	
17-Mar-05	31	31	30	31	29	A	9	8	14	18	25	33	32	38	38	38	39	38	35	30	23	26	23	21	27.8	39.1	
18-Mar-05	21	22	18	32	A	36	30	32	39	42	41	40	40	41	41	42	40	39	37	37	36	36	35	35	35.4	41.8	
19-Mar-05	36	36	36	A	36	34	34	34	33	34	34	35	35	36	36	35	33	33	32	34	37	38	38	39	35.1	39.2	
20-Mar-05	39	38	A	39	40	40	40	40	40	40	39	40	41	43	42	41	38	35	33	33	33	35	36	36	38.6	43.2	
21-Mar-05	36	A	36	36	37	36	36	32	31	35	38	39	40	41	42	40	39	39	38	39	39	37	37	37	37.4	42.3	
22-Mar-05	A	38	38	38	37	36	36	35	34	34	34	35	35	35	37	37	37	35	35	33	33	33	31	A	35.2	38.4	
23-Mar-05	19	15	7	4	6	19	16	14	22	26	27	28	36	38	41	41	39	39	37	30	29	24	A	17	25.0	41.0	
24-Mar-05	9	22	32	33	33	33	30	27	28	28	30	31	31	35	36	35	36	36	31	19	8	A	9	25	27.7	36.3	
25-Mar-05	22	22	11	4	1	1	4	7	16	29	36	39	45	49	52	54	51	52	45	28	A	14	6	5	25.8	54.1	
26-Mar-05	3	1	1	4	9	31	37	37	38	37	38	39	41	38	41	45	46	46	42	A	30	19	22	16	28.7	46.2	
27-Mar-05	5	4	2	1	9	4	24	22	26	30	35	44	44	44	44	43	43	43	A	38	25	7	2	1	23.5	44.3	
28-Mar-05	2	2	3	0	3	11	8	11	16	15	23	16	25	36	40	43	46	A	38	34	21	29	40	40	21.8	45.9	
29-Mar-05	36	28	25	33	32	32	22	23	27	36	43	46	47	48	47	A	A	44	37	33	36	41	38	39	36.5	47.8	
30-Mar-05	43	43	44	44	42	42	41	39	42	45	47	47	47	48	49	A	A	47	46	43	42	40	43	32	34	43.1	48.6
31-Mar-05	31	32	31	10	2	1	17	19	20	45	48	51	52	53	A	48	48	46	40	43	42	41	40	39	34.7	53.3	
Hourly Avg	26.2	25.8	24.5	23.9	22.9	24.2	23.3	22.2	24.0	28.0	31.4	33.5	35.8	37.3	38.2	39.6	37.9	37.1	32.8	28.9	29.3	29.5	28.1	26.4			
Hourly Max	44.6	44.9	44.3	44.4	42.1	43.0	43.8	42.5	42.0	45.1	48.0	51.1	52.3	53.3	51.8	54.1	51.4	51.6	44.5	43.2	43.0	46.6	41.2	45.6			

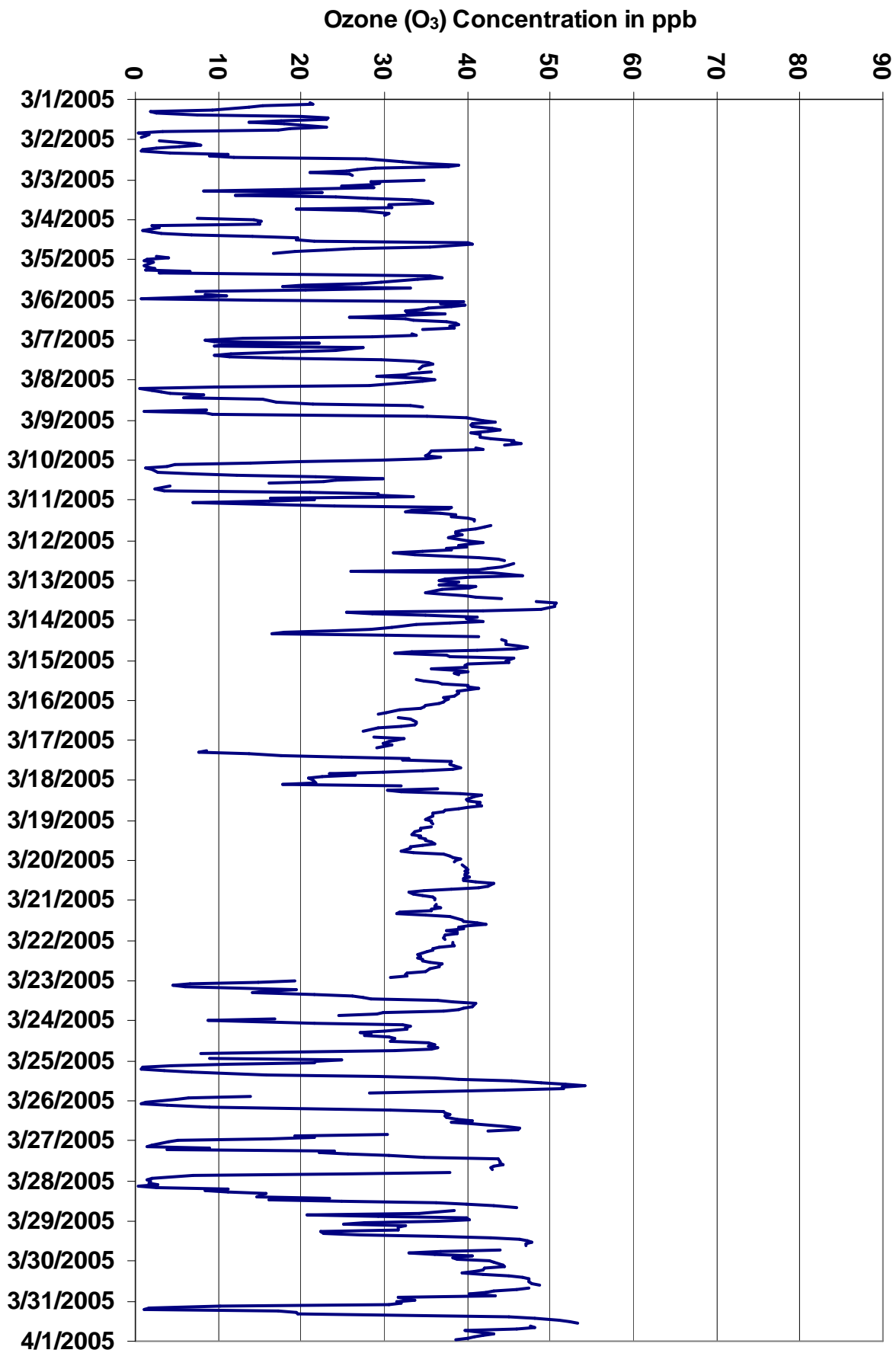


Figure 8. PASZA - Henry Pirker Ozone 1-hr Maximum Value Monthly Trend

Station: Henry Pirker

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	46.3	ppb	31-Mar	17:00 18:00

Guideline Limit: Canada Wide Standard

8-hr 65 ppb

Percentile	99	95	75	50	25	5	1
	44.0	40.6	35.1	28.7	14.3	2.9	0.6

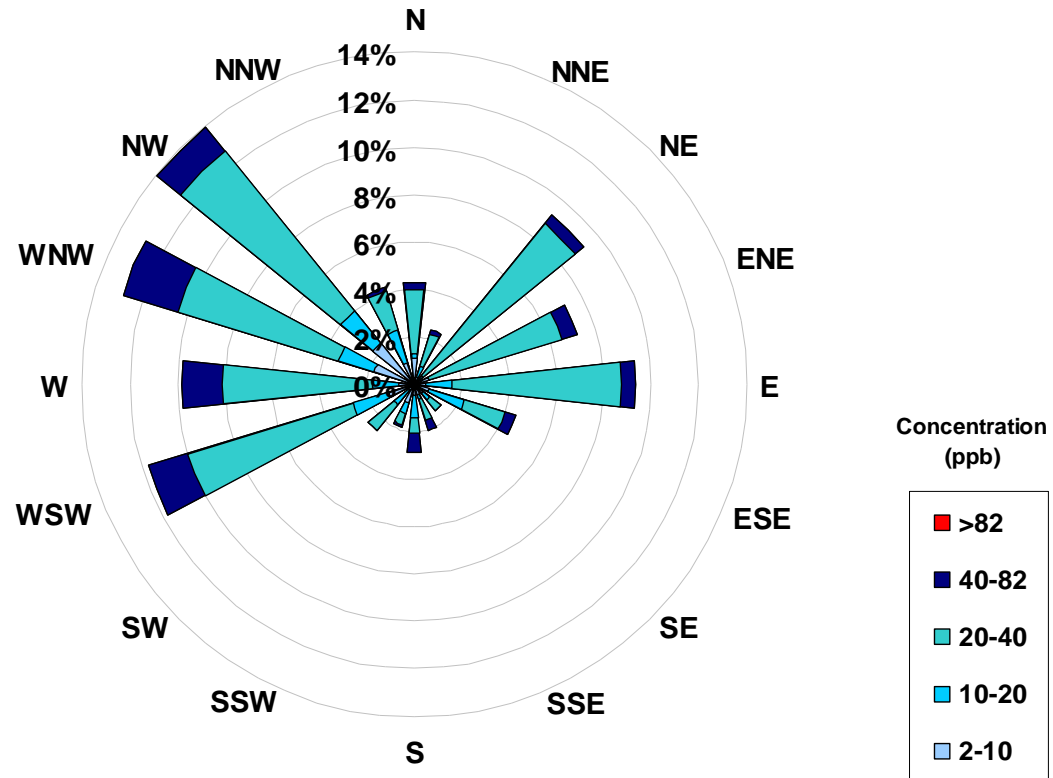
Status Flag Characters

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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	13	11	10	10	9	9	8	7	5	5	5	5	5	7	8	9	11	13	14	14	12	10	8	7	5	9.0	14.3
2-Mar-05	3	2	0	1	1	1	1	1	1	2	3	3	3	5	8	12	17	21	23	24	24	24	22	21	19	10.0	24.5
3-Mar-05	18	18	20	22	23	24	22	20	17	15	14	14	15	16	19	21	24	26	25	24	23	22	21	18	20.0	25.7	
4-Mar-05	14	12	11	10	7	3	3	3	2	2	3	3	5	6	9	13	17	18	18	18	16	17	14	9	9.7	18.5	
5-Mar-05	5	3	2	1	0	0	0	0	0	2	6	10	13	16	18	20	21	22	20	16	15	11	9	7	9.0	22.3	
6-Mar-05	6	7	11	16	19	22	26	29	32	32	30	29	28	28	29	30	31	31	32	33	32	31	28	23	25.6	32.5	
7-Mar-05	19	15	13	12	9	8	9	10	11	11	10	12	14	15	17	19	22	25	28	29	31	30	29	28	17.6	30.5	
8-Mar-05	28	29	29	28	25	21	18	14	11	7	4	2	3	5	7	9	12	13	13	12	11	10	12	14	14.1	29.0	
9-Mar-05	15	19	23	28	33	37	39	40	40	40	40	40	40	40	41	41	41	41	41	41	39	38	37	34	32	35.9	41.3
10-Mar-05	31	27	23	19	15	11	8	5	3	2	3	6	7	9	10	12	11	10	8	7	7	8	10	10	10.9	30.6	
11-Mar-05	11	12	12	13	13	15	17	19	21	25	29	33	35	35	36	37	38	38	38	38	37	37	36	36	36	27.5	38.1
12-Mar-05	36	36	36	37	37	37	37	36	35	34	34	34	35	34	35	37	40	41	41	41	37	34	35	34	32	36.0	40.8
13-Mar-05	32	31	31	33	35	35	35	35	35	35	36	37	37	38	40	42	44	45	44	41	38	36	34	33	36.7	44.6	
14-Mar-05	31	30	31	32	33	32	30	27	23	21	21	20	22	25	28	33	38	42	42	40	38	37	36	36	31.1	42.1	
15-Mar-05	35	35	35	36	37	38	38	36	36	35	34	33	33	33	33	34	34	35	35	36	36	37	37	37	35.3	37.8	
16-Mar-05	36	36	36	35	35	34	33	32	31	31	30	30	30	30	30	31	31	31	30	30	N	N	N	N	32.1	36.4	
17-Mar-05	N	N	N	N	26	26	23	20	17	15	13	13	15	17	21	25	29	31	33	31	29	28	24	22	23.0	32.9	
18-Mar-05	20	17	15	15	15	17	19	21	24	27	30	34	35	36	37	38	39	38	38	37	37	36	35	35	29.0	38.7	
19-Mar-05	34	34	34	34	34	34	34	33	33	33	33	33	33	33	33	33	33	33	33	32	32	33	33	34	33.2	34.2	
20-Mar-05	34	35	36	37	37	38	38	38	38	39	39	39	39	39	39	39	39	39	38	37	36	35	34	34	37.3	39.1	
21-Mar-05	33	33	33	34	34	35	34	33	32	32	32	33	33	33	33	34	35	37	37	37	37	37	37	36	36	34.5	37.1
22-Mar-05	36	36	36	36	36	36	36	35	35	34	34	34	33	33	34	34	34	34	34	34	34	33	33	32	31	34.3	36.3
23-Mar-05	28	23	19	15	11	8	6	6	7	9	12	15	19	22	26	30	32	34	35	35	34	32	31	26	21.5	35.0	
24-Mar-05	21	17	16	17	18	19	20	22	25	27	27	27	27	27	28	29	30	31	31	28	25	24	20	17	24.0	31.3	
25-Mar-05	14	12	9	8	8	7	7	5	5	6	9	13	18	24	30	36	40	43	44	41	42	36	29	22	21.0	44.0	
26-Mar-05	15	8	3	1	1	2	6	10	14	19	23	28	32	35	36	37	38	38	39	39	37	34	31	25	23.0	39.0	
27-Mar-05	19	13	8	7	5	3	2	4	6	10	14	18	23	29	33	36	38	40	41	39	34	28	22	16	20.3	41.3	
28-Mar-05	11	5	4	1	1	1	1	2	3	4	6	8	10	14	18	22	26	29	31	33	32	28	27	26	14.3	32.6	
29-Mar-05	23	23	21	21	22	24	23	21	21	22	25	28	30	33	36	39	42	43	41	38	35	34	33	31	29.5	42.7	
30-Mar-05	32	33	35	37	39	39	40	40	40	40	40	41	41	42	43	44	45	45	44	43	42	40	37	36	39.9	44.7	
31-Mar-05	34	32	29	25	20	16	13	12	11	11	14	20	26	32	36	41	45	46	45	44	42	40	40	38	29.7	46.3	
Hourly Avg	22.9	21.4	20.7	20.6	20.5	20.4	20.2	19.9	19.9	20.2	21.1	22.3	23.9	25.7	27.7	29.9	31.8	32.8	32.7	31.7	30.6	29.2	27.5	25.6			
Hourly Max	36.4	36.0	36.3	36.9	38.7	39.3	39.7	40.0	40.1	40.2	40.3	40.8	41.4	42.1	42.9	43.9	45.1	46.3	44.8	43.9	42.3	40.4	39.9	38.5			

Concentration Rose for the 1-hr O₃ Average Concentration Occurrences at the Henry Pirker Site for March 2005



Frequency Distribution of O ₃ in ppb			
Range	Frequency (hrs)		
0 < 2	75		
2 to 10	80		
10 to 20	86		
20 to 40	395		
40 to 82	72		
> 82	0		
Total Non-Zero Values	708		

Calms	
Range	ppb
2-10	0.0%
10-20	0.0%
20-40	0.0%
40-82	0.0%
>82	0.0%

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	2.07 ppm 8-Mar 8:00 9:00
Maximum 24-hr Average:	0.66 ppm 10-Mar

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

AIC Time:	34 hrs	Operational Time:	708 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	50	25	5
	1	Average	
	1.5	0.8	0.3
	0.2	0.2	0.2
	0.2	0.2	0.1
	0.3 ppm		

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start																								24-hour Average	Daily Maximum
	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-Mar-05	0.3	A	0.2	0.2	0.2	0.2	0.4	0.8	0.8	0.8	0.5	0.4	0.5	0.6	1.1	0.7	0.4	0.5	0.5	1.0	0.6	0.9	0.4	0.4	0.54	1.05
2-Mar-05	A	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.5	0.4	0.7	0.8	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.3	A	0.39	0.75
3-Mar-05	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.7	0.5	0.4	0.3	A	0.4	0.36	0.75
4-Mar-05	0.3	0.3	0.2	0.2	0.3	0.3	0.7	0.9	1.5	0.9	0.4	0.3	0.5	0.5	0.3	0.2	0.3	0.4	0.4	0.5	0.6	A	1.5	0.7	0.53	1.50
5-Mar-05	0.6	0.5	0.7	1.0	0.8	0.9	0.9	0.9	0.9	0.5	0.2	0.3	0.3	0.3	0.5	0.7	0.6	0.4	0.6	0.9	A	0.5	0.4	0.8	0.61	1.00
6-Mar-05	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.3	0.4	0.6	0.28	0.58
7-Mar-05	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.33	0.67
8-Mar-05	0.2	0.2	0.2	0.3	0.6	0.7	0.8	1.8	2.1	0.5	0.6	0.7	0.8	0.5	0.5	0.5	0.4	A	1.3	0.8	0.5	0.4	0.3	0.2	0.64	2.07
9-Mar-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	A	0.2	0.2	0.2	0.2	0.2	0.3	0.20	0.29
10-Mar-05	0.3	0.3	0.5	0.5	0.8	0.7	0.7	1.2	1.4	0.7	0.4	0.4	0.4	0.6	0.4	A	0.9	1.5	1.4	0.7	0.3	0.3	0.3	0.3	0.66	1.47
11-Mar-05	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.32
12-Mar-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	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.18	0.27
13-Mar-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	A	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.3	0.2	0.22	0.55
14-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.24	0.37
15-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.51
16-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	C	C	A	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.39
17-Mar-05	0.2	0.2	0.2	0.2	0.2	A	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.5	0.5	0.3	0.3	0.2	0.30	0.50
18-Mar-05	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.25
19-Mar-05	0.2	0.2	0.2	A	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	0.2	0.2	0.18	0.23
20-Mar-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	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.29
21-Mar-05	0.2	A	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.21	0.37
22-Mar-05	A	0.1	0.1	0.1	0.1	0.1	0.1	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	A	0.16	0.18
23-Mar-05	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.23	0.32
24-Mar-05	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	A	0.3	0.2	0.26	0.48
25-Mar-05	0.2	0.2	0.2	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	A	1.4	1.9	1.4	0.44	1.95
26-Mar-05	1.3	0.5	0.5	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.4	A	0.4	0.5	0.4	0.5	0.36	1.31
27-Mar-05	0.6	0.8	0.9	1.0	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.8	1.4	1.7	1.6	0.55	1.72
28-Mar-05	1.8	1.6	1.0	0.7	0.4	0.3	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	A	0.3	0.4	0.4	0.5	0.2	0.2	0.49	1.81
29-Mar-05	0.2	0.3	0.3	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	A	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.23	0.34
30-Mar-05	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	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.19	0.29
31-Mar-05	0.3	0.2	0.3	0.4	0.5	0.7	0.8	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.32	0.84
Hourly Avg	0.35	0.31	0.30	0.30	0.29	0.30	0.35	0.45	0.46	0.33	0.29	0.27	0.28	0.27	0.27	0.26	0.27	0.29	0.37	0.37	0.32	0.37	0.41	0.37		
Hourly Max	1.81	1.59	1.03	1.00	0.82	0.89	0.93	1.81	2.07	0.89	0.73	0.75	0.76	0.64	1.05	0.68	0.92	1.47	1.39	1.01	0.81	1.45	1.95	1.56		

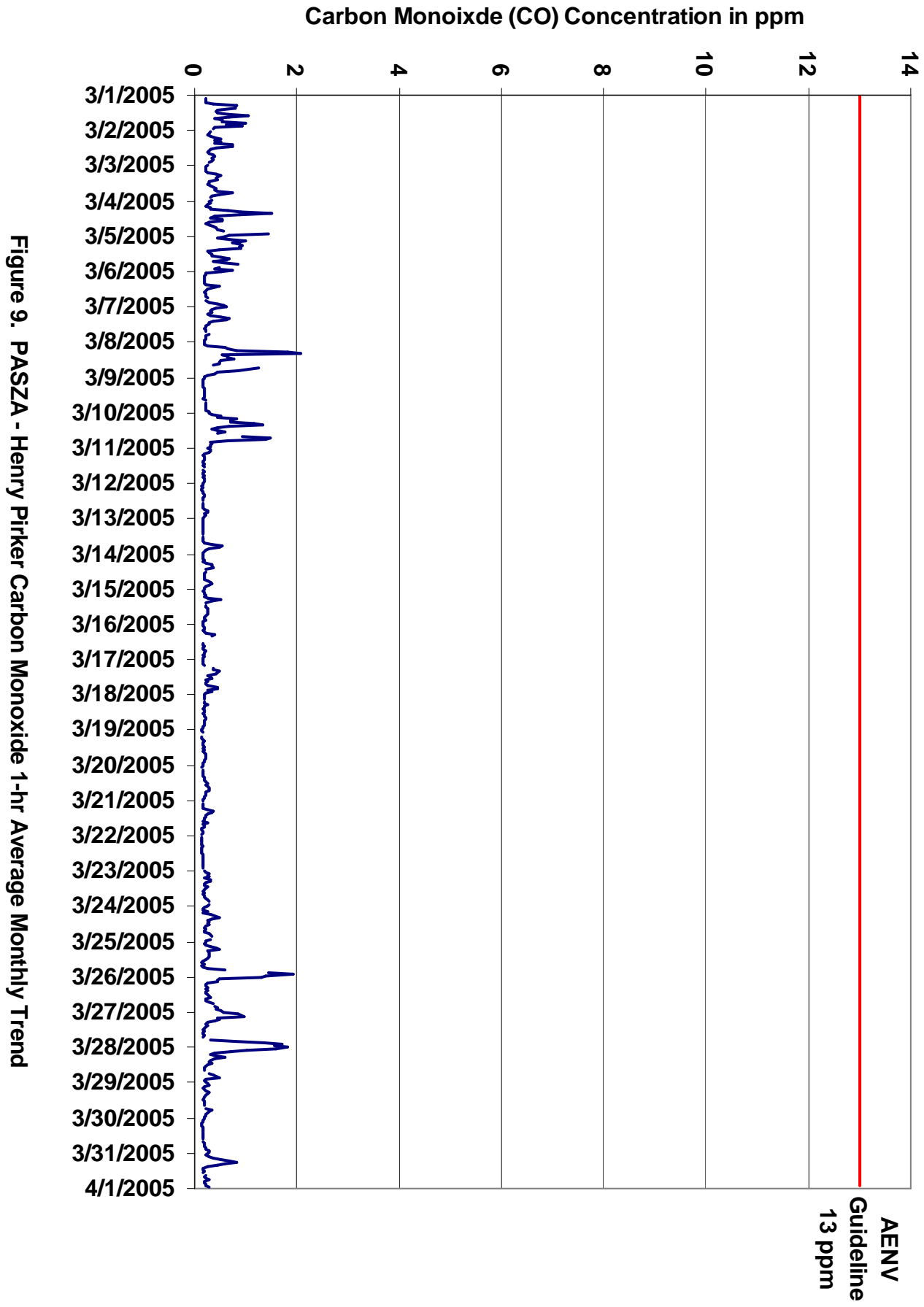


Figure 9. PASZA - Henry Pirkler Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Carbon Monoxide (CO)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	7.0	ppm	28-Mar	7:00 8:00
Maximum 24-hr Value:	1.3	ppm	10-Mar	

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	3.3	1.9	0.7	0.4	0.3	0.2	0.2	0.6 ppm

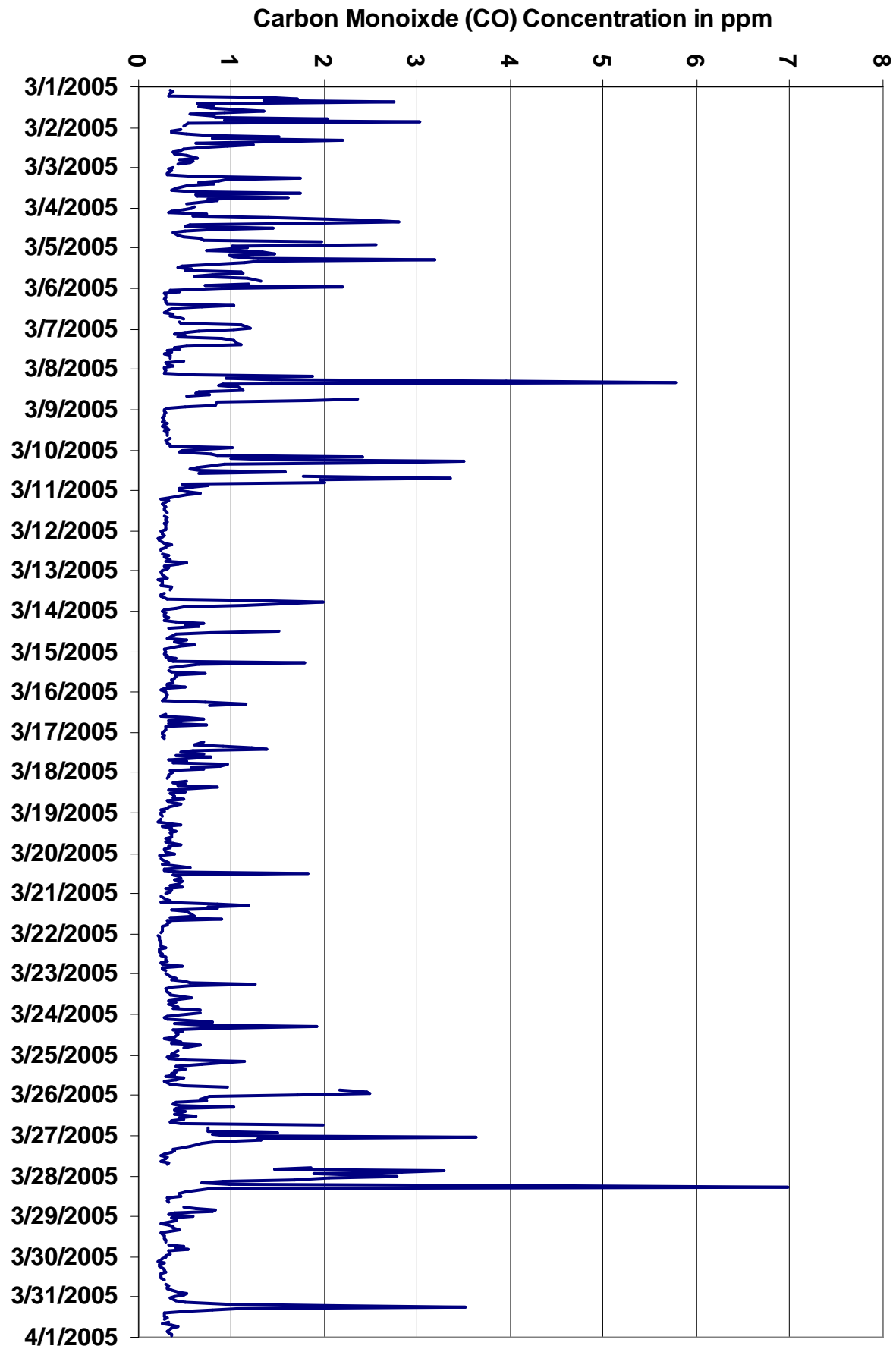
Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Daily
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Average	Maximum	
1-Mar-05	0.5	A	0.3	0.4	0.3	0.3	1.4	1.7	1.3	2.7	0.6	0.8	0.6	0.8	1.3	0.9	0.6	0.8	0.8	2.0	0.9	3.0	0.5	0.5	1.02	3.03	
2-Mar-05	A	0.5	0.4	0.4	0.5	0.7	1.5	0.8	2.2	0.6	1.2	1.0	0.7	0.5	0.5	0.4	0.4	0.5	0.6	0.4	0.6	0.5	0.4	A	0.69	2.20	
3-Mar-05	0.4	0.3	0.4	0.3	0.3	0.6	1.7	0.9	0.9	0.7	0.8	0.5	0.4	0.4	0.6	1.7	0.6	0.6	1.6	0.7	0.8	0.5	A	0.6	0.72	1.75	
4-Mar-05	0.6	0.5	0.4	0.3	0.7	0.6	1.4	2.5	2.8	1.8	0.6	0.5	1.4	0.8	0.5	0.4	0.4	0.5	0.7	0.7	2.0	A	2.6	1.0	1.02	2.80	
5-Mar-05	1.2	0.7	1.3	1.5	1.0	1.0	1.2	3.2	1.3	1.1	0.5	0.4	0.6	0.5	1.1	1.1	0.8	0.6	1.2	1.3	A	1.2	0.7	2.2	1.12	3.18	
6-Mar-05	0.9	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	0.7	0.4	0.3	0.3	0.4	0.3	0.4	0.5	A	0.4	0.5	1.1	1.2	0.49	1.20	
7-Mar-05	1.0	0.6	0.5	0.4	0.5	0.4	0.9	1.0	1.1	1.1	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.3	A	0.5	0.3	0.3	0.4	0.3	0.53	1.10	
8-Mar-05	0.3	0.3	0.3	0.6	1.9	0.9	1.4	4.0	5.8	0.9	0.9	1.1	1.1	0.6	0.6	0.8	0.5	A	2.4	1.8	0.8	0.8	0.5	0.3	1.24	5.77	
9-Mar-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	1.0	0.33	1.02	
10-Mar-05	0.5	0.4	0.8	0.9	2.4	1.0	1.5	3.5	2.7	0.9	0.6	0.5	0.7	1.6	0.7	A	1.8	3.3	2.0	2.0	0.5	0.8	0.6	0.4	1.30	3.49	
11-Mar-05	0.4	0.5	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33	0.67
12-Mar-05	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	A	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.30	0.52
13-Mar-05	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.4	0.3	A	0.3	0.2	0.2	0.3	0.3	1.3	2.0	1.1	0.5	0.4	0.3	0.44	1.98	
14-Mar-05	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.5	0.7	0.3	A	1.5	0.8	0.4	0.3	0.3	0.5	0.4	0.5	0.6	0.4	0.4	0.3	0.46	1.51	
15-Mar-05	0.3	0.3	0.3	0.3	0.4	0.3	0.4	1.8	0.7	0.3	A	0.3	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.3	0.2	0.44	1.79	
16-Mar-05	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.2	0.8	C	C	A	A	0.3	0.2	0.5	0.7	0.3	0.5	0.3	0.7	0.3	0.3	0.3	0.44	1.15	
17-Mar-05	0.3	0.3	0.3	0.3	0.3	A	0.7	0.6	0.9	1.2	1.4	0.6	0.4	0.7	0.4	0.8	0.3	0.5	0.4	1.0	0.9	0.6	0.7	0.3	0.60	1.38	
18-Mar-05	0.4	0.3	0.3	0.3	A	0.5	0.4	0.5	0.4	0.8	0.3	0.5	0.3	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.39	0.85	
19-Mar-05	0.2	0.2	0.3	A	0.2	0.2	0.3	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.32	0.46	
20-Mar-05	0.4	0.2	A	0.2	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.4	1.8	0.4	0.4	0.5	0.4	0.5	0.4	0.3	0.5	0.3	0.4	0.3	0.42	1.82	
21-Mar-05	0.3	A	0.2	0.3	0.3	0.2	0.8	1.2	0.7	0.8	0.4	0.5	0.6	0.6	0.3	0.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.46	1.18	
22-Mar-05	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.5	0.3	0.3	0.3	A	0.26	0.48	
23-Mar-05	0.3	0.3	0.4	0.4	0.5	0.6	1.3	0.6	0.4	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.3	0.4	0.3	0.4	0.4	0.7	A	0.7	0.46	1.26	
24-Mar-05	0.5	0.3	0.3	0.3	0.8	0.4	0.7	1.9	0.8	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.7	0.6	0.5	A	0.4	0.4	0.52	1.92	
25-Mar-05	0.4	0.3	0.3	0.5	1.1	0.9	0.7	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.5	0.4	0.3	0.3	0.5	1.0	A	2.2	2.5	2.5	0.74	2.48	
26-Mar-05	1.7	0.8	0.7	0.7	0.4	0.4	0.4	1.0	0.4	0.4	0.5	0.4	0.6	0.4	0.5	0.4	0.3	0.5	2.0	A	0.7	0.7	1.5	0.8	0.71	1.98	
27-Mar-05	0.9	3.6	1.3	1.3	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	A	1.9	1.5	3.3	2.8	1.9	1.05	3.62	
28-Mar-05	2.8	2.0	1.7	0.9	0.7	1.0	4.5	7.0	0.8	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	A	0.5	0.6	0.8	0.8	0.4	0.3	1.21	6.97	
29-Mar-05	0.6	0.4	0.4	0.4	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	A	0.3	0.5	0.4	0.5	0.3	0.3	0.3	0.36	0.58	
30-Mar-05	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.30	0.52	
31-Mar-05	0.4	0.3	0.4	0.5	0.9	2.1	3.5	1.1	0.8	0.5	0.3	0.3	0.3	0.3	A	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.64	3.51	
Hourly Avg	0.58	0.53	0.47	0.46	0.58	0.52	0.93	1.26	0.94	0.65	0.50	0.45	0.56	0.47	0.45	0.49	0.44	0.51	0.70	0.77	0.61	0.73	0.69	0.63			
Hourly Max	2.78	3.62	1.68	1.47	2.40	2.10	4.46	6.97	5.77	2.75	1.38	1.07	1.82	1.58	1.35	1.75	1.77	3.34	2.36	2.03	1.96	3.28	2.83	2.48			

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



Station: Henry Pirker

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	1.32	ppm	28-Mar	3:00	4:00		

Guideline Limit: Alberta Environment: 8-hr 5 ppm

Percentile	99	95	75	50	25	5	1
	1.07	0.77	0.38	0.25	0.20	0.17	0.15

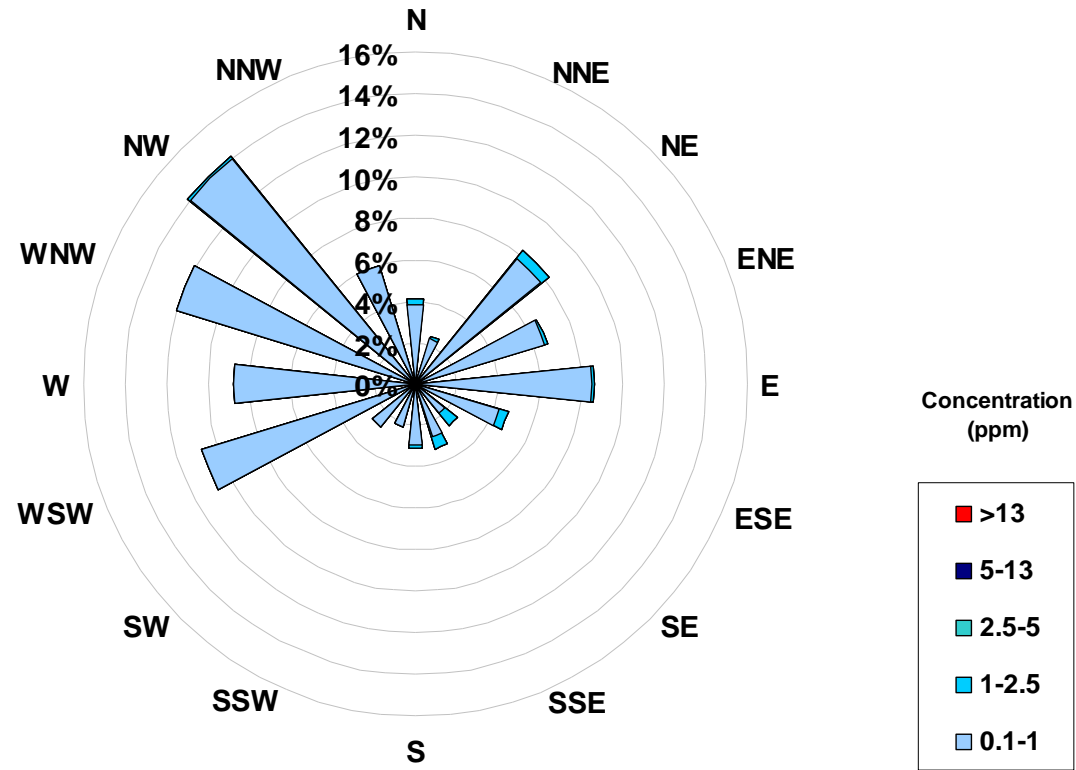
Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	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-Mar-05	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.51	0.72
2-Mar-05	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.43	0.63
3-Mar-05	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.35	0.46
4-Mar-05	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.48	0.72
5-Mar-05	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.64	0.82
6-Mar-05	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.31	0.56
7-Mar-05	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.35	0.42
8-Mar-05	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8	0.9	0.9	1.0	1.0	1.0	0.9	0.8	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.60	0.99
9-Mar-05	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.52
10-Mar-05	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.62	0.85
11-Mar-05	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.63
12-Mar-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	0.2	0.18	0.21
13-Mar-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	0.3	0.3	0.3	0.3	0.3	0.20	0.31
14-Mar-05	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.24	0.31
15-Mar-05	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.29
16-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	N	0.25
17-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.28	0.38
18-Mar-05	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.30
19-Mar-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	0.2	0.18	0.21
20-Mar-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	0.3	0.3	0.3	0.2	0.2	0.2	0.20	0.25
21-Mar-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	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.26
22-Mar-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.17
23-Mar-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.26
24-Mar-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.25	0.30
25-Mar-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.32	0.85
26-Mar-05	1.0	1.1	1.1	1.1	1.0	0.8	0.6	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.48	1.09
27-Mar-05	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.7	0.9	0.44	0.88
28-Mar-05	1.1	1.3	1.3	1.3	1.3	1.1	1.0	0.9	0.7	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.62	1.32
29-Mar-05	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.24	0.32
30-Mar-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	0.2	0.19	0.24
31-Mar-05	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.31	0.50
Hourly Avg	0.37	0.37	0.36	0.35	0.34	0.32	0.32	0.33	0.34	0.35	0.35	0.35	0.35	0.34	0.34	0.33	0.31	0.28	0.28	0.29	0.30	0.30	0.32	0.34	0.35		
Hourly Max	1.11	1.31	1.28	1.32	1.27	1.14	0.98	0.86	0.83	0.87	0.92	0.97	0.99	0.97	0.93	0.77	0.61	0.67	0.80	0.85	0.83	0.79	0.77	0.88			

Concentration Rose for the 1-hr CO Average Concentration Occurrences at the Henry Pirker Site for March 2005



Frequency Distribution of CO in ppm			
Range		Frequency (hrs)	
0	< 0.1	0	
0.1	to 1	686	
1	to 2.5	22	
2.5	to 5	0	
5	to 13	0	
	> 13	0	
Total Non-Zero Values			708

Calms	
Range	
ppm	
0.1-1	0.0%
1-2.5	0.0%
2.5-5	0.0%
5-13	0.0%
>13	0.0%

PASZA - Henry Pirker Total Hydrocarbon Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Total HydroCarbons (THC)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	3.4 ppm 27-Mar 3:00 4:00
Maximum 24-hr Average:	2.8 ppm 1-Mar

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

AIC Time:	34 hrs	Operational Time:	709 hrs	
Calibration Time:	1 hrs	AMD Operational Uptime:	100.0%	
Percentile	99	95	75	
	50	25	5	
	1	Average		
	3.2	2.9	2.3	
	2.1	2.0	1.9	
	1.9	1.9	2.2	
				ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	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	Daily
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Average	Maximum
1-Mar-05	2.5	2.6	A	2.9	2.9	2.8	3.0	3.3	3.2	3.2	3.0	2.9	2.7	2.7	2.9	2.6	2.4	2.4	2.3	2.8	2.6	2.8	2.6	2.6	2.7	2.77	3.26
2-Mar-05	2.7	A	2.7	2.7	2.8	2.9	3.0	2.8	2.7	2.9	3.1	3.0	2.3	2.1	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.43	3.10
3-Mar-05	A	2.0	2.0	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.4	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.0	2.2	A	2.15	2.36	
4-Mar-05	2.4	2.5	2.4	2.5	2.6	2.5	2.7	2.7	3.1	2.8	2.5	2.5	2.6	2.5	2.2	2.0	2.1	2.0	2.1	2.2	2.3	2.8	A	2.4	2.45	3.07	
5-Mar-05	2.6	2.7	2.6	2.9	3.1	3.3	3.3	2.7	2.8	2.2	2.0	2.3	2.1	2.0	2.1	2.2	2.2	2.2	2.3	2.4	2.8	A	2.3	2.5	2.52	3.29	
6-Mar-05	2.6	2.0	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	A	2.2	2.3	2.4	2.12	2.57	
7-Mar-05	2.4	2.2	2.3	2.3	2.3	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.1	1.9	1.8	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.1	2.0	2.05	2.38
8-Mar-05	2.0	2.1	2.0	2.2	2.6	2.7	2.8	2.9	2.9	2.4	2.5	2.5	2.5	2.4	2.3	2.2	2.1	2.1	A	2.5	2.3	2.3	2.0	1.9	2.35	2.94	
9-Mar-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	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.1	2.2	1.96	2.17
10-Mar-05	2.2	2.3	2.7	2.6	3.0	3.0	2.9	3.0	3.0	2.8	2.7	2.4	2.4	2.4	2.4	2.6	A	2.8	2.8	2.4	2.1	2.1	2.1	2.5	2.58	3.04	
11-Mar-05	2.2	2.4	2.3	2.1	2.0	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	2.0	2.0	1.9	1.9	2.0	1.9	1.97	2.39
12-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.00	2.17
13-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.2	2.0	2.0	2.0	2.03	2.17
14-Mar-05	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.3	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	2.06	2.30
15-Mar-05	2.0	1.9	2.0	2.0	2.0	2.0	2.0	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	1.98	2.03
16-Mar-05	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	C	A	A	2.1	2.1	2.2	2.1	2.2	1.98	2.19	
17-Mar-05	2.2	2.3	2.2	2.2	2.3	A	2.4	2.3	2.5	2.4	2.4	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.24	2.46
18-Mar-05	2.3	2.4	2.6	2.5	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.14	2.59
19-Mar-05	2.1	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.03	2.08
20-Mar-05	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.01	2.10
21-Mar-05	2.1	A	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.10	2.17
22-Mar-05	A	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.12	2.17
23-Mar-05	2.2	2.2	2.3	2.4	2.7	2.4	2.7	2.6	2.6	2.5	2.5	2.4	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	A	2.4	2.28	2.68
24-Mar-05	2.4	2.5	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.2	2.1	2.2	2.2	2.3	2.3	A	2.3	2.3	2.19	2.50	
25-Mar-05	2.5	2.5	2.8	2.8	3.2	3.3	2.9	2.9	2.9	2.6	2.4	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.3	A	3.0	3.1	2.9	2.56	3.25	
26-Mar-05	3.1	2.7	2.7	2.9	2.4	2.3	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.0	2.0	2.0	2.1	A	2.2	2.2	2.2	2.6	2.28	3.13
27-Mar-05	2.5	2.9	3.3	3.4	2.6	2.8	2.7	2.3	2.3	2.2	2.2	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	A	2.1	2.6	2.6	2.9	3.0	2.43	3.36
28-Mar-05	3.3	3.1	2.9	2.8	2.6	2.6	2.7	2.8	2.7	2.3	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.0	A	2.0	2.1	2.1	2.4	2.2	2.0	2.42	3.27
29-Mar-05	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.05	2.17
30-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.04	2.23
31-Mar-05	2.3	2.2	2.3	2.5	2.8	2.8	2.7	2.3	2.3	2.2	2.1	2.1	2.1	2.0	2.0	A	2.1	2.1	2.0	2.0	2.2	2.3	2.1	2.1	2.1	2.25	2.82
Hourly Avg	2.29	2.27	2.29	2.33	2.34	2.33	2.35	2.31	2.32	2.25	2.22	2.19	2.12	2.09	2.09	2.07	2.04	2.08	2.12	2.17	2.17	2.19	2.19	2.23			
Hourly Max	3.27	3.13	3.26	3.36	3.18	3.29	3.28	3.26	3.23	3.24	3.10	2.98	2.68	2.67	2.93	2.58	2.41	2.84	2.84	2.76	2.80	2.99	3.14	3.03			

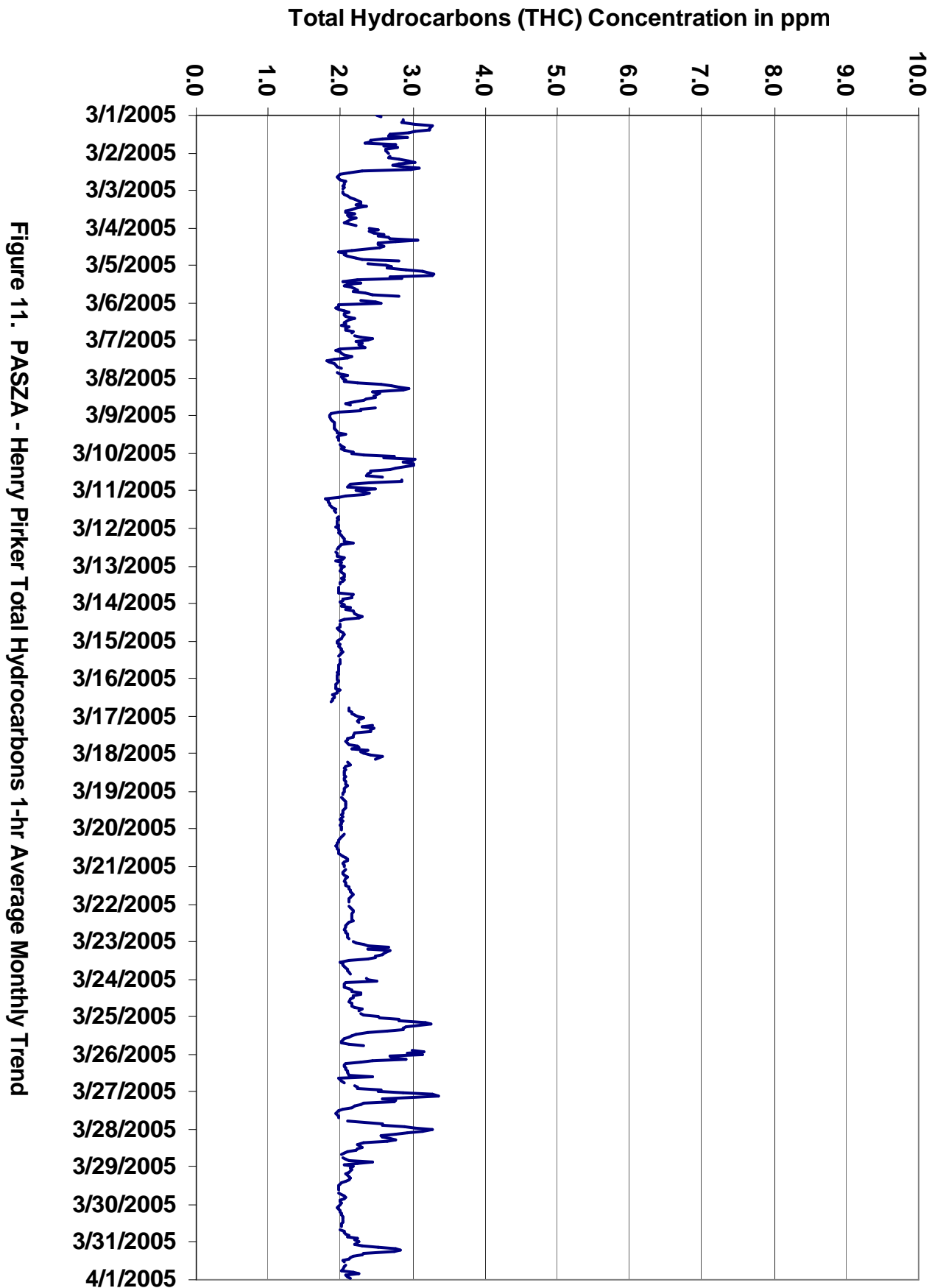


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Total HydroCarbons (THC)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Value:	6.5	ppm	10-Mar	4:00 5:00
Maximum 24-hr Value:	3.5	ppm	10-Mar	

AIC Time:	34 hrs	Operational Time:	709 hrs					
Calibration Time:	1 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	4.5	3.6	2.7	2.2	2.1	2.0	1.9	2.5 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Mar-05	2.6	2.7	A	3.0	2.9	3.0	3.4	3.7	3.4	3.6	3.1	3.0	2.9	2.8	3.1	2.7	2.5	2.5	2.5	3.7	3.2	3.2	3.0	2.8	3.02	3.75
2-Mar-05	3.3	A	2.8	2.7	3.2	3.1	3.4	2.9	2.9	3.0	3.3	3.1	2.7	2.2	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.59	3.41
3-Mar-05	A	2.1	2.1	2.1	2.1	2.3	2.7	2.4	2.5	2.3	2.5	2.4	2.2	2.1	2.2	2.4	2.2	2.2	2.5	2.3	2.5	2.2	3.2	A	2.34	3.19
4-Mar-05	2.8	2.7	2.9	2.9	3.1	2.8	2.9	3.2	3.5	3.4	2.6	2.9	2.8	2.9	2.4	2.0	2.4	2.1	2.3	2.4	2.8	5.6	A	2.6	2.87	5.60
5-Mar-05	3.0	4.5	3.1	4.0	3.8	3.8	3.8	3.5	3.4	2.7	2.2	3.4	2.3	2.2	2.3	2.3	2.4	2.4	3.0	3.0	3.3	A	2.4	2.9	3.03	4.54
6-Mar-05	3.5	2.2	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.6	2.2	2.2	2.4	2.1	2.5	2.3	2.6	2.7	2.4	A	3.6	4.0	3.3	2.49	4.03
7-Mar-05	3.5	2.5	2.8	2.5	3.1	2.3	2.0	2.2	2.1	2.3	2.3	2.2	2.0	1.8	1.9	2.0	2.0	2.1	2.2	A	2.0	2.1	2.4	2.1	2.28	3.46
8-Mar-05	2.1	2.1	2.2	2.9	2.8	3.1	4.3	3.5	4.0	2.9	2.8	3.1	2.6	2.4	2.5	2.3	2.2	2.4	A	3.1	2.8	2.5	2.4	1.9	2.73	4.29
9-Mar-05	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.6	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.1	2.9	2.05	2.89
10-Mar-05	2.3	2.5	6.1	2.9	6.5	3.4	3.1	4.2	3.6	3.2	3.6	3.1	3.2	3.1	3.3	3.4	A	3.7	3.4	3.4	2.6	3.4	3.2	3.8	3.52	6.51
11-Mar-05	2.6	3.3	3.6	2.4	2.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.15	3.61
12-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	3.1	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.3	2.2	2.0	2.2	2.2	2.11	3.11
13-Mar-05	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	2.1	2.4	2.5	2.5	2.1	2.1	2.0	2.13	2.47
14-Mar-05	2.1	2.2	2.1	2.9	2.7	2.5	2.4	2.4	2.5	2.4	2.1	2.0	A	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.22	2.88
15-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.1	2.0	2.0	A	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.05	2.69
16-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.0	2.0	1.9	2.0	2.0	1.9	1.9	C	A	A	2.2	2.3	2.3	2.3	2.3	2.3	2.06	2.30
17-Mar-05	2.3	2.4	2.3	2.3	2.3	A	3.0	2.5	2.7	2.5	3.0	2.3	2.3	2.3	2.2	2.3	2.1	2.1	2.2	2.4	2.4	2.2	2.9	2.5	2.40	2.98
18-Mar-05	2.5	2.6	3.4	3.4	A	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.27	3.38
19-Mar-05	2.1	2.0	2.1	A	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.07	2.16
20-Mar-05	2.0	2.0	A	2.1	2.1	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.2	2.0	2.0	2.1	2.0	2.1	2.3	2.1	2.2	2.1	2.1	2.1	2.07	2.28
21-Mar-05	2.1	A	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.2	2.1	2.2	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.16	2.31
22-Mar-05	A	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	A	2.15	2.22
23-Mar-05	2.2	2.3	2.6	2.6	4.7	3.1	3.0	2.8	2.7	2.5	2.5	2.5	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	A	3.5	2.54	4.66
24-Mar-05	2.9	3.2	2.2	2.1	2.1	2.1	2.3	2.4	2.3	2.3	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.3	A	2.4	2.5	2.35	3.15
25-Mar-05	2.8	2.8	3.3	3.0	3.9	5.3	3.5	3.0	3.0	2.9	2.5	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.5	3.3	A	3.6	3.4	3.5	2.93	5.30
26-Mar-05	4.6	3.6	3.7	3.7	3.8	2.4	2.2	2.2	2.1	2.1	2.2	2.1	2.3	2.1	3.4	2.1	2.0	2.1	2.7	A	2.9	2.9	2.5	3.7	2.76	4.58
27-Mar-05	2.9	3.4	3.8	3.8	3.2	4.2	3.4	2.6	2.8	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.2	A	2.4	3.3	3.1	3.5	3.5	2.81	4.19	
28-Mar-05	3.9	3.7	3.3	3.4	3.5	3.5	3.3	3.7	2.9	2.5	2.4	2.5	2.4	2.5	2.2	2.2	2.1	A	2.1	2.2	2.3	3.8	3.1	2.5	2.87	3.94
29-Mar-05	2.3	2.6	2.7	2.8	2.1	2.5	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.5	2.4	2.0	2.0	2.1	2.22	2.81
30-Mar-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	A	2.0	2.1	2.1	2.1	2.2	2.1	2.7	2.5	2.10	2.65
31-Mar-05	2.6	2.3	2.5	2.7	4.1	4.2	4.8	2.7	2.4	2.3	2.4	2.3	2.3	2.2	A	2.4	2.3	2.4	2.3	2.4	2.6	2.5	2.4	2.7	2.68	4.76
Hourly Avg	2.59	2.55	2.69	2.62	2.84	2.67	2.66	2.58	2.51	2.43	2.36	2.35	2.28	2.20	2.22	2.19	2.12	2.22	2.31	2.42	2.40	2.56	2.51	2.55		
Hourly Max	4.58	4.54	6.14	3.96	6.51	5.30	4.76	4.17	3.97	3.56	3.63	3.37	3.18	3.08	3.43	3.43	2.47	3.73	3.36	3.74	3.29	5.60	4.03	3.81		

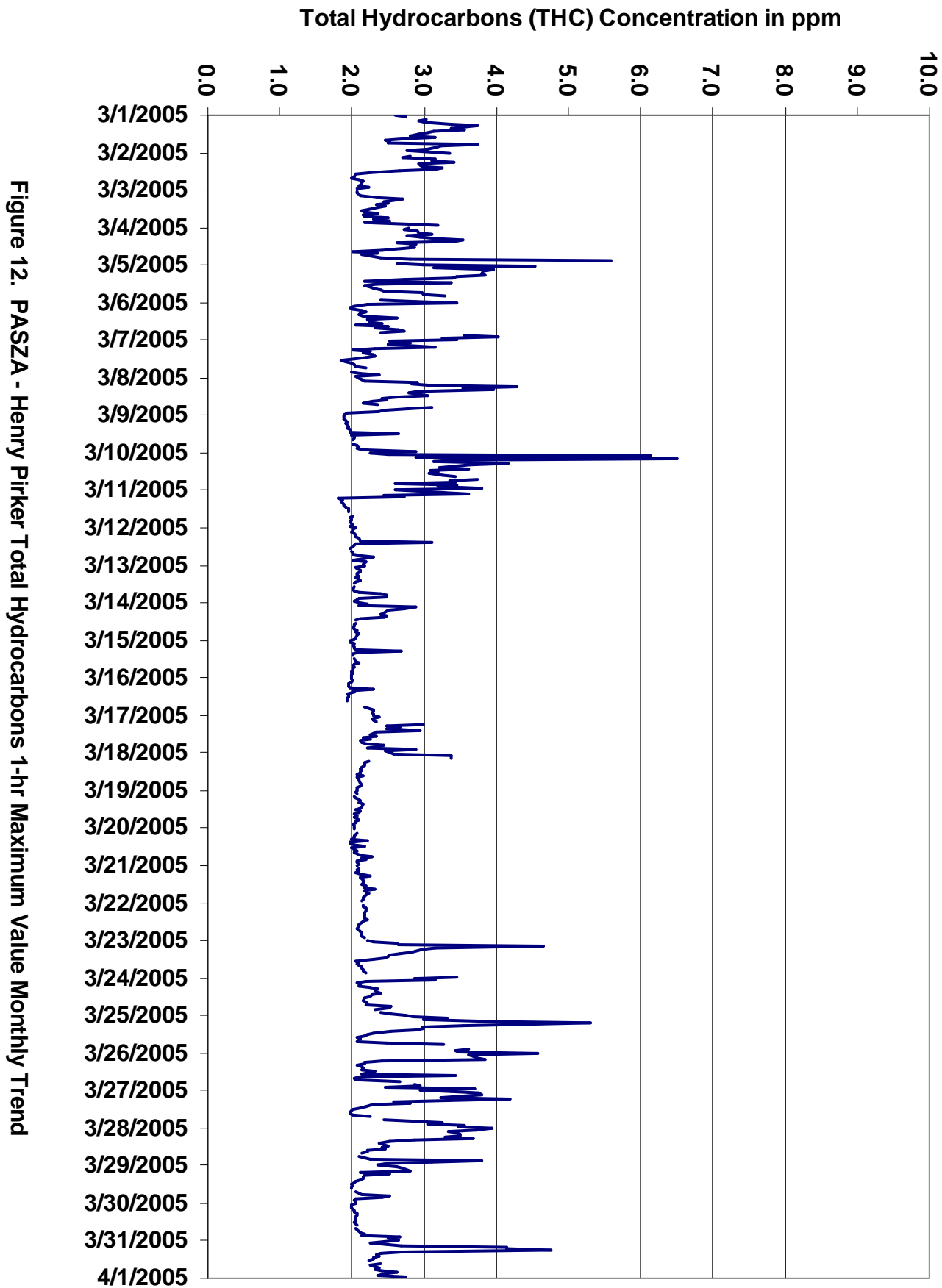


Figure 12. PASZA - Henry Pirkker Total Hydrocarbons 1-hr Maximum Value Monthly Trend

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.3 ppb 8-Mar 8:00 9:00
Maximum 24-hr Average:	0.7 ppb 25-Mar

H₂S Guideline Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

AIC Time:	35 hrs	Operational Time:	704 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	50	25	5
	1	Average	
	1.1	0.8	0.4
	0.2	0.1	0.0
	0.0	0.0	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	0:00	1:00	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	Daily		
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	Average	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-Mar-05	0	A	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0.5	0.8	
2-Mar-05	A	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
3-Mar-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	0.2	0.4	
4-Mar-05	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0.5	1.1	
5-Mar-05	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0.5	0.9	
6-Mar-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	0.2	0.4	
7-Mar-05	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	A	1	0	0	0	0	0	0.4	0.7	
8-Mar-05	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	0	0	0	0.6	1.3	
9-Mar-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	0.2	0.3	
10-Mar-05	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	0	0	0	0	0	0.6	1.2	
11-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
12-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
13-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
14-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
15-Mar-05	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
16-Mar-05	0	0	0	0	0	0	0	0	0	A	0	0	0	0	C	C	C	C	C	A	A	0	0	0	0	N	0.3	0.8
17-Mar-05	0	0	0	1	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
18-Mar-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	
19-Mar-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	0.3	
20-Mar-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	0.4	
21-Mar-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	0.1	0.3	
22-Mar-05	A	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	A	0	0.3	0.7	
23-Mar-05	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5	
24-Mar-05	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0.3	0.9	
25-Mar-05	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	1	1	1	0	0.7	1.2	
26-Mar-05	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6	
27-Mar-05	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0	0.3	0.8	
28-Mar-05	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.9	
29-Mar-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	0.2	0.3	
30-Mar-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	0.2	0.2	
31-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3			
Hourly Max	0.9	0.9	1.2	1.2	1.1	1.0	0.9	1.2	1.3	1.1	1.0	0.8	0.7	0.7	0.8	0.6	0.9	1.0	1.2	0.9	0.8	0.7	1.1	0.8	0.8			

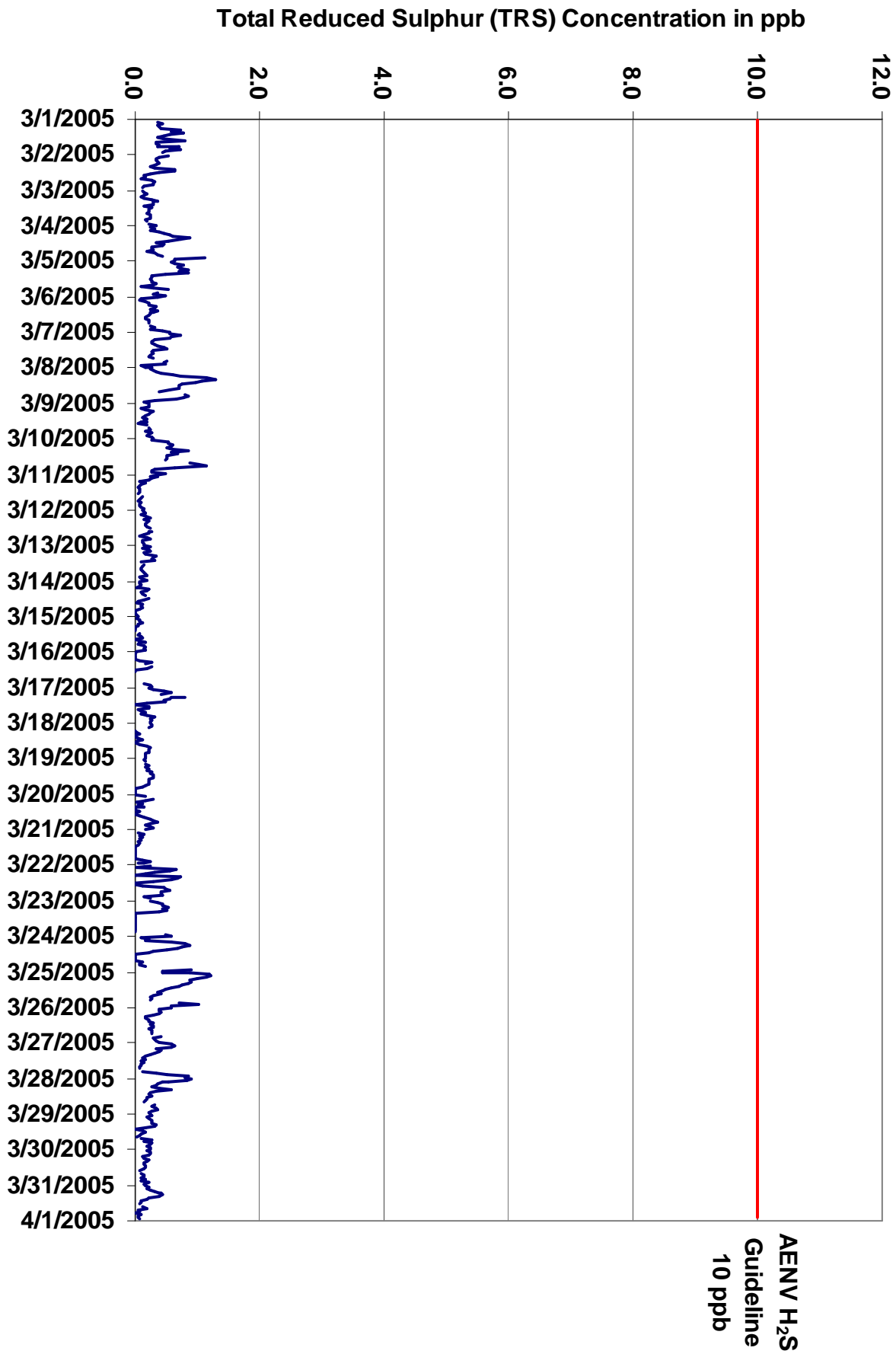


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	1.9	ppb	8-Mar	8:00 9:00
Maximum 24-hr Value:	1.1	ppb	10-Mar	

AIC Time:	35 hrs	Operational Time:	704 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	1.6	1.3	0.9	0.6	0.5	0.4	0.0	0.7 ppb

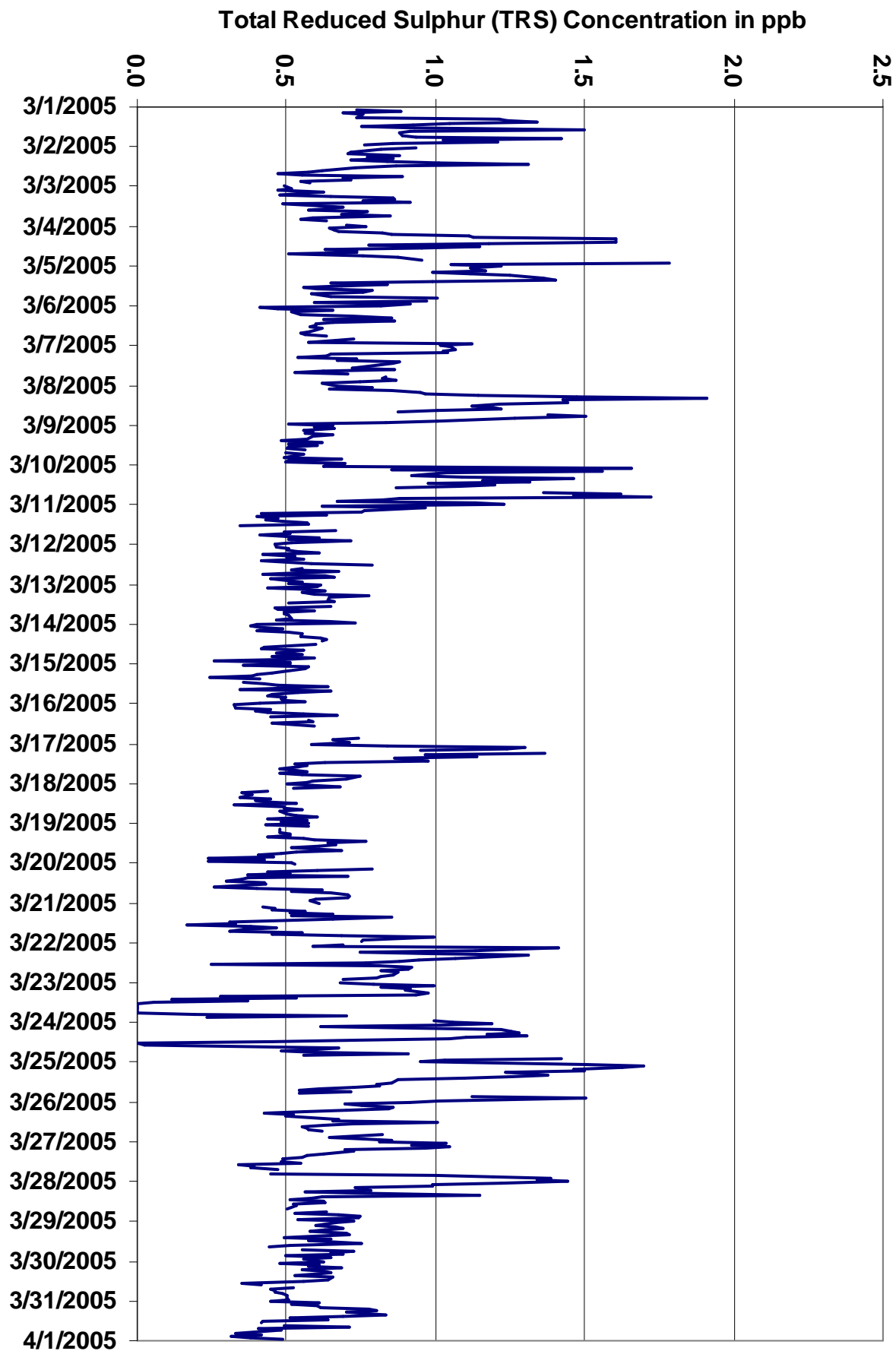
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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	Daily
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Average	Maximum	
1-Mar-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	1.0	1.5
2-Mar-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	0.8	1.3
3-Mar-05	0	1	0	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.9	
4-Mar-05	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1.0	1.8	
5-Mar-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	0.9	1.4	
6-Mar-05	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.1	
7-Mar-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	0.8	1.1	
8-Mar-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1	2	1	1	1	1	1	1.1	1.9	
9-Mar-05	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	0	1	0	1	1	0	1	0.6	0.7	
10-Mar-05	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	A	1	2	1	2	1	1	1	1	1.1	1.7	
11-Mar-05	1	1	1	1	1	0	1	0	0	0	0	1	1	0	A	1	0	1	0	0	1	1	1	1	0.6	1.2	
12-Mar-05	0	0	1	1	1	1	0	1	1	1	0	1	1	A	1	1	1	1	0	1	1	0	1	1	0.5	0.8	
13-Mar-05	1	1	0	1	1	1	1	1	1	1	1	1	A	1	0	0	1	0	0	1	1	0	1	1	0.6	0.8	
14-Mar-05	0	0	0	0	0	1	1	1	1	1	1	A	1	1	0	0	1	0	1	0	1	0	0	1	0.5	0.6	
15-Mar-05	1	0	1	1	0	0	0	0	0	0	A	0	0	0	1	0	1	1	0	0	0	0	0	1	0.5	0.7	
16-Mar-05	0	0	0	0	0	0	1	1	0	A	1	1	0	1	C	C	C	C	C	A	A	1	1	1	N	0.7	
17-Mar-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0.8	1.4	
18-Mar-05	1	1	1	1	A	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	0	1	0	0.5	0.7	
19-Mar-05	1	0	1	A	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	0.8	
20-Mar-05	1	1	A	1	1	0	1	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0.5	0.8	
21-Mar-05	1	A	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1	0.5	1.0	
22-Mar-05	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	0.9	1.4	
23-Mar-05	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	A	1	0.5	1.0	
24-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	A	1	1	0.9	1.4	
25-Mar-05	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1.1	1.7	
26-Mar-05	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.0	
27-Mar-05	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	A	0	1	1	1	1	0.7	1.4	
28-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.4	
29-Mar-05	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	A	1	1	1	1	0	1	1	0.6	0.7	
30-Mar-05	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0	0	0	0	1	1	1	0.5	0.7	
31-Mar-05	0	1	1	1	1	1	1	1	1	1	1	1	0	0	A	0	1	0	0	0	0	0	0	0	0.5	0.8	
Hourly Avg	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7		
Hourly Max	1.4	1.5	1.7	1.6	1.6	1.5	1.4	1.5	1.9	1.6	1.4	1.3	1.2	1.2	1.5	1.0	1.4	1.6	1.5	1.7	1.3	1.2	1.8	1.3			

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



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

Station: Henry Pirker

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	29.6 $\mu\text{g}/\text{m}^3$ 10-Mar 18:00 19:00
Maximum 24-hr Average:	9.9 $\mu\text{g}/\text{m}^3$ 10-Mar

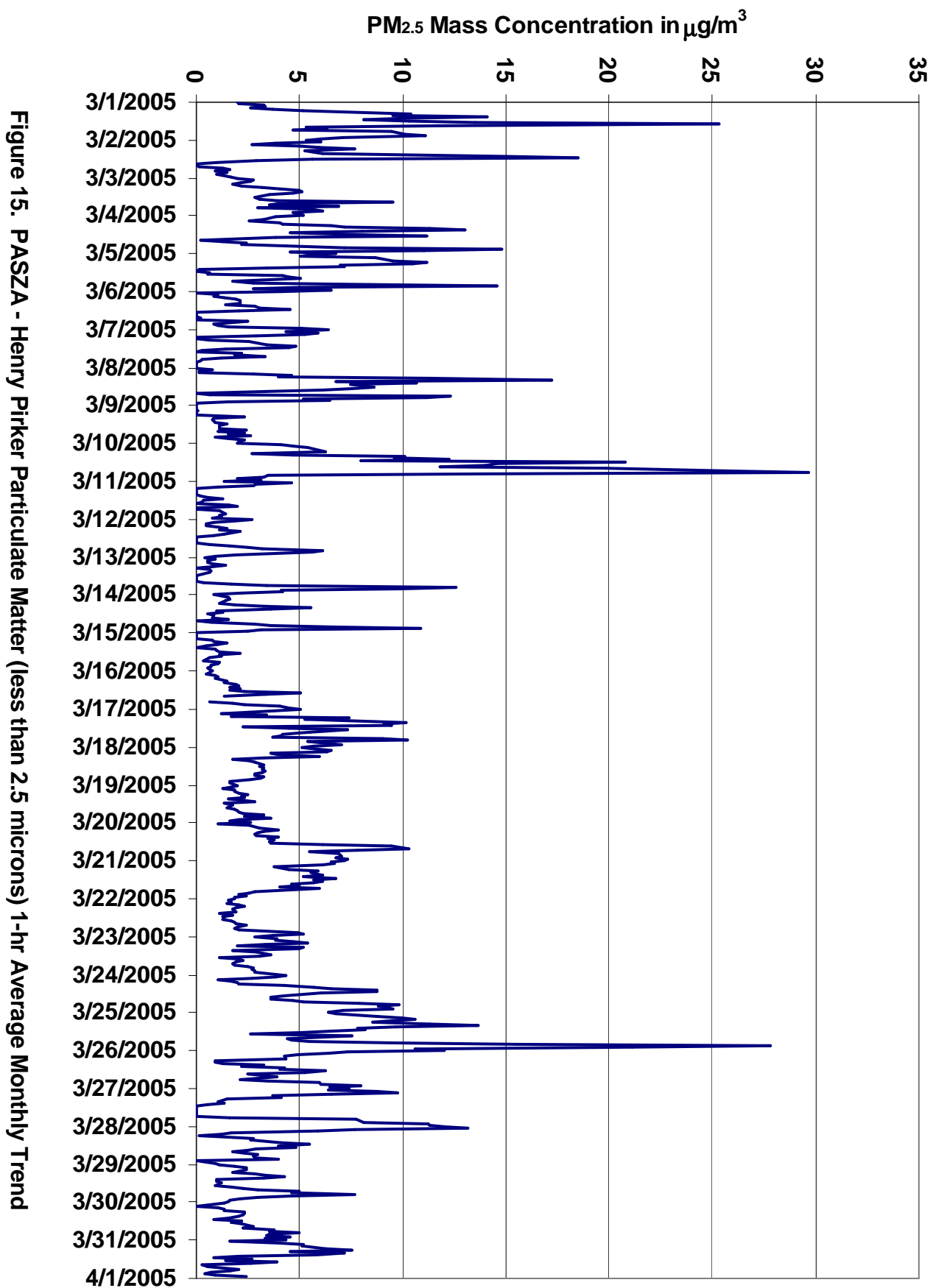
Guideline Limit	Canada Wide Standard	1-hr - $\mu\text{g}/\text{m}^3$	24-hr 30 $\mu\text{g}/\text{m}^3$
(considered as an absolute value)			

AIC Time:	0 hrs	Operational Time:	742 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Geomean
	18.0 11.0 5.2 2.8 1.3 0.0 0.0	3.9 $\mu\text{g}/\text{m}^3$	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 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-Mar-05	2	2	3	3	3	4	5	10	10	14	10	8	10	14	25	12	5	6	5	9	10	11	7	6	8.2	25.3
2-Mar-05	5	6	4	3	5	6	8	5	6	6	15	19	6	3	1	0	0	0	1	2	1	2	1	2	4.4	18.5
3-Mar-05	2	3	3	2	2	2	3	4	5	5	5	4	3	3	4	10	4	4	7	3	6	6	5	5	4.0	9.5
4-Mar-05	5	4	3	3	4	4	7	7	11	13	8	5	8	11	4	0	1	2	2	4	7	15	11	5	6.0	14.8
5-Mar-05	7	6	5	9	10	11	10	7	7	3	0	0	1	1	4	4	5	2	3	8	15	5	3	7	5.5	14.6
6-Mar-05	4	0	1	1	1	2	2	2	1	3	3	5	2	0	0	0	0	0	0	2	1	1	2	5	1.6	5.1
7-Mar-05	6	4	6	5	3	0	0	1	3	3	5	4	1	0	0	2	2	3	1	0	0	0	0	0	2.2	6.4
8-Mar-05	0	1	0	0	3	5	4	11	17	7	11	7	9	8	6	3	0	1	12	11	5	6	2	0	5.4	17.2
9-Mar-05	0	0	0	0	0	0	0	2	1	1	1	1	1	1	1	2	1	2	2	3	1	2	2	2	1.1	2.6
10-Mar-05	2	4	5	5	6	6	3	5	10	10	12	8	21	15	14	12	20	26	30	14	3	3	2	3	9.9	29.6
11-Mar-05	1	5	3	3	1	0	0	0	0	0	1	1	0	0	0	2	2	0	0	1	1	1	1	1	1.0	4.7
12-Mar-05	3	2	1	1	0	1	2	1	2	1	1	0	0	0	0	0	1	2	2	3	6	6	2	1	1.5	6.1
13-Mar-05	0	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	2	3	13	10	4	4	2	1.9	12.6
14-Mar-05	1	2	2	1	1	1	2	3	6	4	1	1	1	1	1	2	0	1	3	4	7	11	3	2	2.4	10.9
15-Mar-05	0	0	0	0	1	1	2	1	1	0	1	1	1	2	1	1	1	0	1	1	1	1	1	1	0.8	2.1
16-Mar-05	1	1	1	1	1	1	1	1	2	2	2	2	2	2	5	3	1	C	C	1	2	2	4	5	1.9	5.0
17-Mar-05	5	4	3	1	3	2	7	5	10	9	9	2	5	7	6	5	4	4	4	9	10	5	7	6	5.6	10.2
18-Mar-05	5	6	7	6	4	4	6	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3.5	6.6
19-Mar-05	2	2	1	2	2	2	2	2	2	2	2	3	1	2	1	2	2	2	2	3	2	4	2	2	2.1	3.6
20-Mar-05	3	1	3	3	4	3	3	3	3	4	4	4	4	4	6	9	10	8	5	7	7	7	7	7	4.9	10.3
21-Mar-05	7	7	7	6	4	4	6	6	6	6	5	7	6	6	6	5	5	4	6	3	3	2	2	2	5.0	7.2
22-Mar-05	2	2	2	1	2	2	2	2	2	1	2	1	1	1	2	2	2	2	2	2	2	5	5	4	2.1	5.2
23-Mar-05	3	4	4	5	5	3	2	5	5	2	3	4	3	1	2	2	2	2	2	2	3	3	3	3	3.0	5.4
24-Mar-05	4	4	3	1	2	2	2	4	6	7	9	9	6	4	4	4	5	5	8	10	9	9	10	7	5.5	9.8
25-Mar-05	6	7	9	10	11	9	9	11	14	10	8	8	7	5	3	8	4	5	5	10	15	28	21	11	9.7	27.8
26-Mar-05	12	7	6	5	4	4	1	1	1	3	2	4	4	6	5	2	3	4	2	3	6	6	8	6	4.6	12.0
27-Mar-05	7	6	9	10	7	4	4	2	1	1	1	0	0	0	0	0	0	0	0	2	8	8	11	11	3.8	11.3
28-Mar-05	12	13	8	6	2	1	0	2	3	3	4	5	4	5	3	3	2	2	3	3	3	4	0	1	3.8	13.2
29-Mar-05	1	2	2	2	2	2	3	3	4	3	1	1	1	1	2	2	3	5	5	8	5	3	2	2	2.7	7.7
30-Mar-05	2	1	0	1	1	1	2	2	2	2	2	1	2	2	2	3	2	4	4	5	4	3	5	3	2.4	5.0
31-Mar-05	4	2	4	5	5	6	8	5	7	6	2	1	3	1	4	3	0	1	2	2	1	0	1	2	3.1	7.5
Hourly Avg	3.7	3.4	3.3	3.3	3.2	3.1	3.4	3.8	4.8	4.3	4.2	3.8	3.7	3.5	3.7	3.4	3.0	3.4	4.2	4.9	5.0	5.4	4.3	3.7		
Hourly Max	12.0	13.2	8.8	10.0	10.6	11.2	10.5	11.4	17.2	14.1	15.0	18.5	20.8	14.6	25.3	11.8	19.9	26.1	29.6	13.8	15.5	27.8	21.1	11.3		



Station: Henry Pirker

HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	58.8	μg/m ³	25-Mar	21:00 22:00
Maximum 24-hr Value:	17.4	μg/m ³	10-Mar	

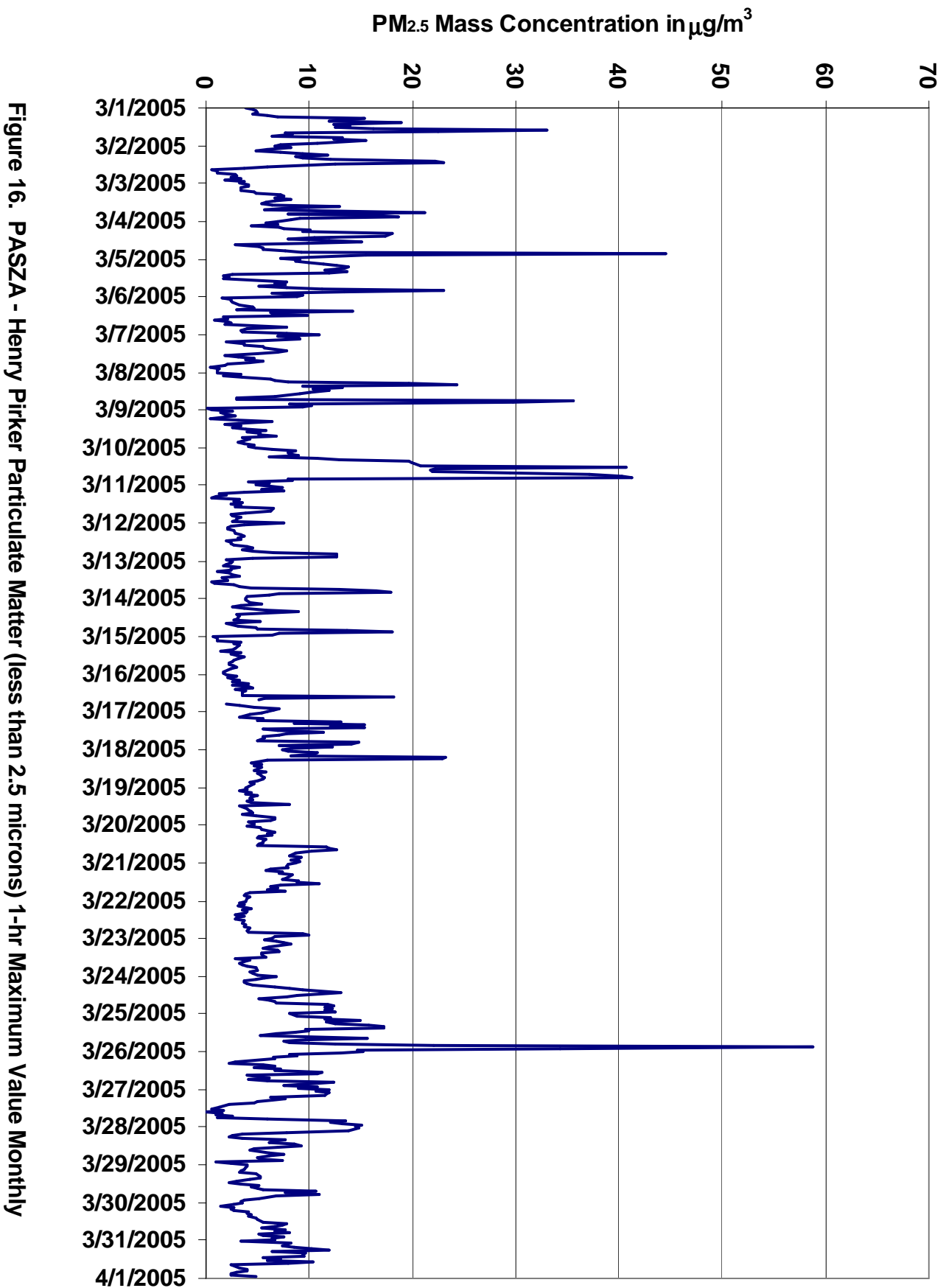
AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	33.7	16.5	8.3	5.5	3.5	1.7	0.6	7.0 μg/m ³	6.3 μg/m ³

Status Flag Characters

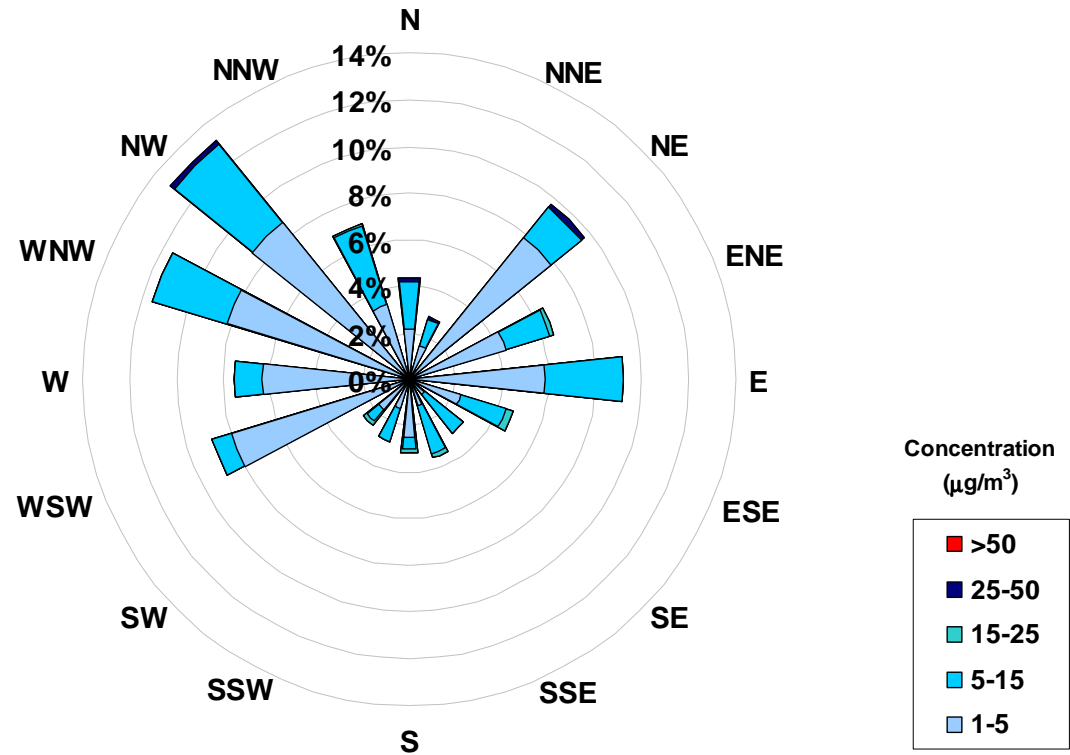
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	4	5	5	5	5	6	7	15	12	19	12	14	13	16	33	22	8	8	6	13	12	16	11	7	11.4	32.9		
2-Mar-05	7	8	6	5	7	9	12	9	9	12	22	23	12	6	4	1	1	1	3	3	2	3	2	4	7.2	23.0		
3-Mar-05	3	4	4	3	3	5	5	7	8	7	8	7	6	5	6	13	8	6	21	8	17	19	9	8	7.9	21.2		
4-Mar-05	7	6	7	4	7	8	10	9	18	17	10	8	12	15	10	3	5	5	6	8	9	45	15	7	10.5	44.5		
5-Mar-05	9	9	10	11	13	14	13	12	14	12	3	2	2	2	8	7	8	5	8	11	23	13	6	9	9.3	23.0		
6-Mar-05	9	2	2	2	3	3	5	5	3	14	6	7	10	2	2	1	2	2	2	8	4	3	4	8	4.5	14.2		
7-Mar-05	11	7	9	9	6	2	4	4	6	6	8	7	5	2	3	5	4	6	4	2	2	0	1	1	4.7	11.0		
8-Mar-05	1	3	2	4	6	7	8	20	24	9	13	10	12	10	9	7	3	3	36	30	8	10	9	0	10.2	35.5		
9-Mar-05	1	3	1	2	3	0	3	6	4	2	3	2	4	6	4	5	5	7	4	4	3	4	5	4	3.6	6.8		
10-Mar-05	5	6	9	8	8	9	6	11	13	20	20	21	41	22	22	22	30	37	40	41	8	8	4	6	17.4	41.2		
11-Mar-05	5	7	5	8	4	1	2	1	1	3	3	4	2	3	3	6	6	4	2	3	3	3	3	3	3.6	7.5		
12-Mar-05	8	4	2	2	2	3	3	3	4	3	3	2	2	2	3	4	5	4	5	7	13	13	5	2	4.2	12.7		
13-Mar-05	3	2	2	2	3	2	2	1	2	3	3	2	2	1	1	3	3	4	13	17	18	7	6	4	4.4	17.9		
14-Mar-05	4	4	4	5	3	3	4	6	9	6	3	3	3	3	3	5	2	3	5	5	14	18	7	6	5.4	18.1		
15-Mar-05	1	1	1	1	3	3	3	3	2	1	3	2	3	4	3	3	3	2	2	3	3	2	2	2	2.4	3.8		
16-Mar-05	2	3	2	3	3	3	4	3	4	5	3	4	4	4	18	6	5	C	C	2	3	5	7	7	4.4	18.2		
17-Mar-05	6	5	4	3	5	5	13	9	15	12	15	6	7	11	8	7	6	6	5	15	14	7	12	8	8.6	15.4		
18-Mar-05	7	8	11	10	8	23	23	6	4	5	5	5	5	5	6	5	5	5	6	6	5	4	5	4	7.4	23.2		
19-Mar-05	4	4	3	4	4	5	4	4	5	4	4	8	3	4	4	4	5	4	5	7	7	6	4	5	4.6	8.1		
20-Mar-05	5	4	5	5	7	6	6	5	5	6	6	6	5	5	12	12	13	10	9	8	9	9	8	9	7.3	12.7		
21-Mar-05	9	8	8	8	6	6	7	7	8	8	7	9	9	11	7	6	7	6	8	4	4	4	4	4	6.9	11.0		
22-Mar-05	4	3	4	3	4	4	4	4	4	4	3	4	3	3	4	4	4	4	4	4	4	4	9	10	7	4.3	10.0	
23-Mar-05	6	6	7	8	8	6	5	7	7	5	5	5	6	3	4	4	3	4	4	4	5	5	4	5	5	5.3	8.3	
24-Mar-05	7	6	5	4	4	4	5	7	8	9	13	11	9	8	5	6	7	7	12	12	11	12	12	13	8.1	13.1		
25-Mar-05	8	9	12	11	15	12	16	17	17	10	10	9	7	5	16	10	8	8	13	22	59	34	15	14.7	58.8			
26-Mar-05	15	13	8	9	6	7	3	2	6	7	5	7	7	11	11	4	5	6	4	6	12	8	11	9	7.6	15.3		
27-Mar-05	12	11	12	12	12	6	8	6	5	5	2	1	1	2	0	2	1	3	1	6	14	12	13	15	6.7	15.1		
28-Mar-05	15	15	14	8	4	3	2	3	8	7	6	9	9	7	5	4	6	8	6	5	5	7	1	2	6.6	14.9		
29-Mar-05	4	4	4	4	3	3	5	5	5	4	3	2	3	5	4	5	6	11	8	11	7	5	4	3	5.0	10.9		
30-Mar-05	4	3	1	3	2	3	4	4	4	4	5	5	6	8	7	7	5	8	7	8	5	6	8	6	5.1	8.2		
31-Mar-05	7	3	8	7	9	10	12	6	10	9	10	6	7	6	10	8	2	3	4	4	3	2	2	5	6.5	11.9		
Hourly Avg	6.1	5.7	5.8	5.6	5.7	5.8	6.6	6.7	7.9	7.9	7.3	6.8	7.1	6.4	7.2	6.6	5.8	6.3	8.2	8.9	8.7	10.5	7.4	6.1				
Hourly Max	15.3	14.9	13.8	11.7	14.9	23.2	22.9	19.6	24.3	19.6	22.3	23.0	40.7	22.2	32.9	22.5	29.5	37.2	40.3	41.2	23.0	58.8	34.2	15.1				



Concentration Rose for the 1-hr PM_{2.5} Average Concentration Occurrences at the Henry Pirker Site for March 2005



Frequency Distribution of PM _{2.5} in µg/m ³			
Range	Frequency (hrs)		
0 < 1	140		
1 to 5	397		
5 to 15	194		
15 to 25	7		
25 to 50	4		
> 50	0		
Total Non-Zero Values	742		

Calms	
Range	µg/m ³
1-5	0.0%
5-15	0.0%
15-25	0.0%
25-50	0.0%
>50	0.0%

PASZA - Henry Pirker Meteorological Parameters Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Relative Humidity (RH - %)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	92.9	%	27-Mar	3:00 4:00
Maximum 24-hr Average:	82.5	%	15-Mar	

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
	91.5	88.9	80.7	69.4	57.5	40.0	33.4	67.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	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-Mar-05	79	79	81	81	82	82	82	82	80	76	69	60	54	53	54	48	47	51	61	72	83	86	87	88	72	88			
2-Mar-05	87	87	87	87	87	87	86	85	84	80	69	58	55	51	51	54	55	58	63	64	62	59	66	66	70	87			
3-Mar-05	67	73	74	75	76	75	79	77	69	68	65	57	51	45	42	45	45	47	57	60	61	62	69	83	63	83			
4-Mar-05	86	85	86	86	89	90	90	90	86	78	71	67	64	64	55	48	48	48	49	50	45	49	58	63	58	68	90		
5-Mar-05	57	57	58	67	68	72	71	71	74	63	61	63	64	62	64	65	65	72	78	88	92	91	91	92	71	92			
6-Mar-05	92	78	83	87	89	90	90	89	90	92	93	88	75	66	61	57	58	57	63	63	63	67	69	73	76	93			
7-Mar-05	70	66	67	76	77	71	82	84	86	89	87	83	74	63	57	60	63	70	78	65	68	69	71	68	73	89			
8-Mar-05	67	70	71	77	82	85	85	83	76	69	69	72	71	68	69	64	59	63	70	82	86	87	74	70	74	87			
9-Mar-05	68	64	63	65	65	62	62	64	62	57	53	47	44	43	41	42	41	43	45	55	55	56	62	64	55	68			
10-Mar-05	62	66	72	73	75	76	72	66	63	53	46	41	43	40	50	59	61	65	66	49	56	61	65	72	61	76			
11-Mar-05	72	77	83	75	70	70	74	72	63	57	54	50	46	42	38	41	47	45	47	48	50	50	52	54	57	83			
12-Mar-05	54	63	67	66	60	61	62	63	57	51	46	39	34	34	33	35	36	37	46	53	50	68	76	77	53	77			
13-Mar-05	75	74	74	75	70	71	76	74	65	58	55	47	40	34	28	28	28	34	34	40	41	41	47	54	53	76			
14-Mar-05	56	58	62	69	75	79	80	77	75	73	62	56	54	51	51	46	46	50	54	56	58	57	59	81	62	81			
15-Mar-05	87	83	71	62	63	65	70	76	80	82	85	90	90	90	89	88	89	90	90	89	89	89	88	87	83	90			
16-Mar-05	86	81	78	78	78	79	80	80	79	77	73	70	67	66	65	72	77	82	87	89	89	89	88	87	79	89			
17-Mar-05	87	87	88	87	86	85	85	83	81	73	66	58	61	58	54	57	57	58	61	64	68	70	75	81	72	88			
18-Mar-05	82	82	83	86	81	73	72	70	67	66	66	65	64	65	67	62	64	64	68	69	73	76	77	77	72	86			
19-Mar-05	77	76	77	77	77	77	77	76	75	70	69	62	60	59	60	63	66	69	77	80	78	84	82	77	73	84			
20-Mar-05	77	73	72	73	81	84	86	86	85	84	83	82	81	81	82	82	83	79	72	71	73	74	75	76	79	86			
21-Mar-05	76	77	77	78	80	81	82	84	86	83	76	71	74	78	82	85	88	89	90	90	89	88	86	84	82	90			
22-Mar-05	84	81	80	79	79	81	81	80	77	73	70	69	68	65	62	61	66	72	75	76	77	79	81	81	75	84			
23-Mar-05	81	83	83	83	82	81	80	79	77	65	59	57	55	55	54	54	56	59	63	70	72	75	78	81	70	83			
24-Mar-05	82	82	84	83	83	84	84	81	72	65	66	60	55	56	56	56	59	60	61	67	78	83	84	82	72	84			
25-Mar-05	81	83	83	83	83	82	80	79	71	57	46	42	38	40	39	36	35	34	39	47	61	70	72	72	60	83			
26-Mar-05	77	82	84	83	81	80	65	62	60	60	60	56	51	54	60	58	59	66	69	76	83	84	84	87	70	87			
27-Mar-05	89	91	93	93	92	91	91	80	68	62	61	51	48	48	49	53	49	49	56	60	66	68	73	77	69	93			
28-Mar-05	81	85	81	82	86	88	88	85	80	73	69	65	66	69	70	67	57	56	63	73	76	80	66	71	74	88			
29-Mar-05	78	79	83	83	82	83	84	76	68	62	54	47	44	42	40	43	44	47	45	49	56	62	68	70	62	84			
30-Mar-05	70	68	64	63	64	62	63	60	53	47	42	37	36	34	35	35	36	38	42	48	52	53	60	60	51	70			
31-Mar-05	59	60	63	70	74	75	67	54	52	39	32	29	30	30	34	40	39	40	41	44	48	49	52	54	49	75			
Hourly Avg	76	76	76	78	78	78	78	77	73	68	64	60	57	55	54	55	56	58	62	65	68	70	72	74					
Hourly Max	92	91	93	93	92	91	91	90	90	92	93	90	90	90	89	88	89	90	90	90	92	91	91	92					

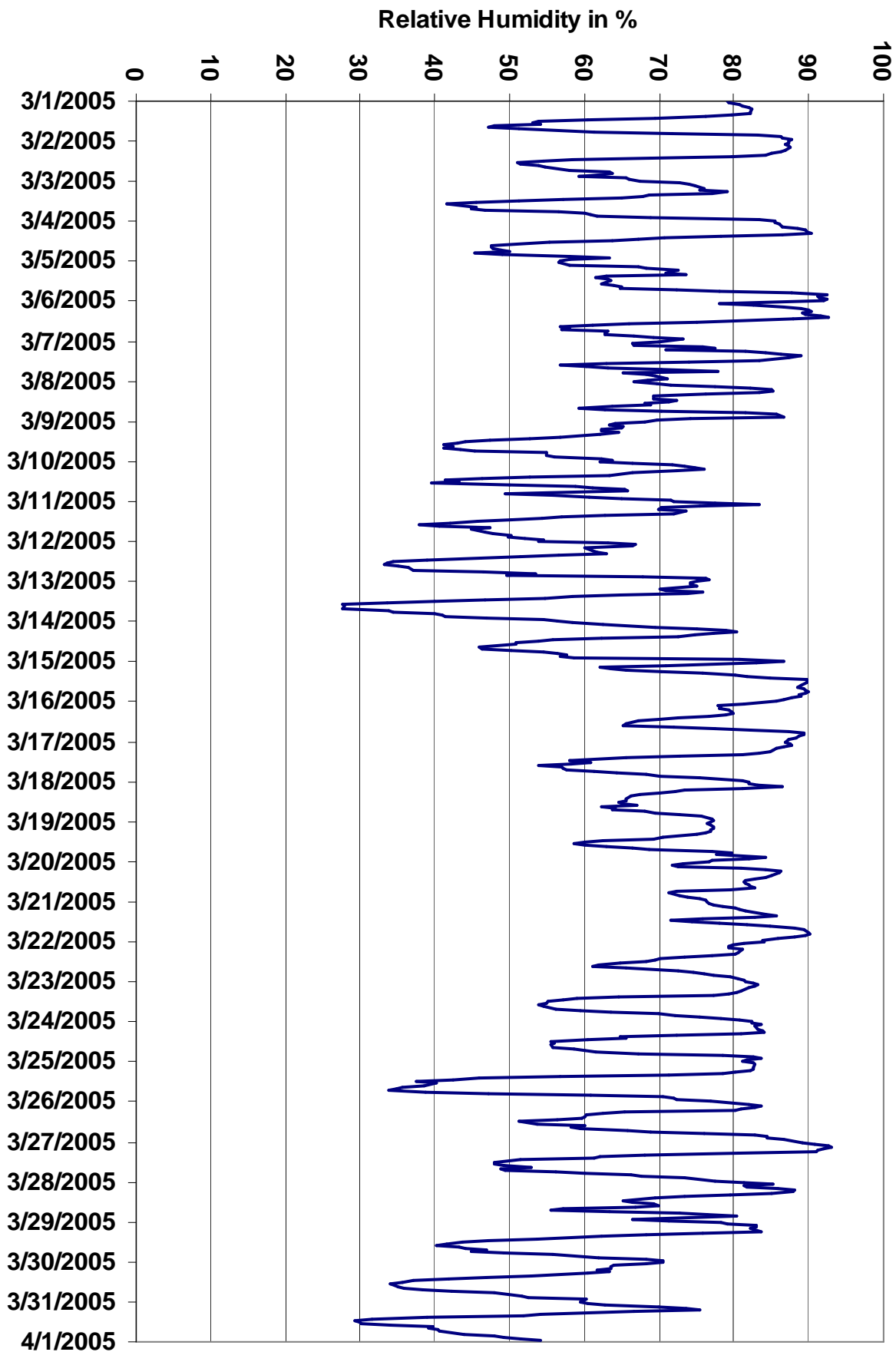


Figure 17. PASZA - Henry Pirkker Relative Humidity 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY AVERAGE TABLE

Ambient Temperature (AT - °C)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	12.3	°C	3-Mar	14:00 15:00
Maximum 24-hr Average:	7.2	°C	9-Mar	

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
	10.7	8.9	5.3	0.7	-5.7	-12.0	-16.0	-0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Mar-05			-7	-8	-9	-8	-9	-10	-10	-9	-7	-4	-1	1	4	6	7	9	10	8	6	2	-2	-3	-4	-5	-1.8	9.6
2-Mar-05			-6	-6	-7	-8	-7	-7	-6	-6	-5	-3	1	6	8	10	10	8	8	7	6	6	5	6	4	5	1.2	9.8
3-Mar-05			4	3	3	3	2	2	1	1	3	3	4	7	9	11	12	11	11	10	7	5	5	5	2	-2	5.1	12.3
4-Mar-05			-3	-3	-3	-3	-3	-3	-3	-3	-2	0	2	3	5	8	9	9	10	8	7	7	6	4	3	3	2.6	9.6
5-Mar-05			4	4	4	2	2	1	1	1	2	6	7	8	8	9	8	8	8	7	6	5	3	3	2	2	4.5	8.5
6-Mar-05			2	4	4	4	3	2	2	2	2	1	1	3	6	8	7	8	7	7	4	3	3	2	2	1	3.7	7.7
7-Mar-05			2	2	1	1	0	1	1	0	1	1	1	2	5	8	8	7	6	5	4	5	4	3	3	3	3.1	7.9
8-Mar-05			3	2	1	0	-1	-2	-2	-1	0	1	2	2	4	6	7	8	10	8	7	3	2	2	6	7	3.1	9.9
9-Mar-05			8	8	7	7	6	6	6	5	6	7	8	9	10	10	11	11	10	9	8	6	5	5	3	3	7.2	10.8
10-Mar-05			2	1	0	-1	-1	-2	-2	-1	0	4	7	8	8	9	9	8	8	7	7	8	8	8	8	6	4.7	9.3
11-Mar-05			5	4	2	4	7	8	7	7	8	8	9	9	10	11	11	10	8	8	6	5	4	5	4	3	6.8	11.0
12-Mar-05			3	2	2	2	2	2	1	1	3	4	6	7	8	8	9	9	8	9	6	4	5	4	3	2	4.6	8.8
13-Mar-05			2	2	2	2	2	1	0	0	2	4	5	6	8	8	9	9	9	8	7	6	5	5	4	3	4.6	9.3
14-Mar-05			3	3	2	0	0	-1	-1	-1	0	2	4	6	6	7	6	7	7	5	4	3	2	2	2	1	2.8	7.2
15-Mar-05			0	0	-1	-1	-1	-1	-2	-1	-1	-2	-2	-3	-3	-2	-2	-3	-3	-4	-5	-5	-5	-6	-6	-6	-2.8	-0.4
16-Mar-05			-7	-7	-7	-8	-9	-9	-9	-9	-8	-7	-6	-5	-4	-3	-2	-3	-4	-5	-5	-6	-6	-7	-7	-8	-6.3	-2.4
17-Mar-05			-8	-8	-8	-8	-10	-11	-13	-13	-12	-8	-6	-3	-3	-1	1	0	-1	-1	-3	-5	-6	-7	-8	-11	-6.4	0.5
18-Mar-05			-12	-12	-12	-11	-8	-9	-10	-9	-8	-8	-7	-8	-7	-7	-7	-6	-6	-7	-8	-9	-10	-10	-11	-11	-8.9	-6.2
19-Mar-05			-12	-12	-12	-12	-13	-13	-13	-13	-12	-12	-11	-9	-8	-7	-7	-7	-7	-7	-7	-8	-7	-8	-8	-8	-9.6	-6.7
20-Mar-05			-8	-8	-8	-8	-9	-9	-9	-8	-8	-7	-6	-6	-6	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-6.5	-4.6
21-Mar-05			-5	-5	-5	-5	-6	-6	-6	-5	-5	-4	-2	-1	-1	-2	-2	-3	-3	-4	-4	-5	-5	-6	-7	-7	-4.3	-0.7
22-Mar-05			-7	-8	-9	-9	-10	-10	-11	-11	-11	-11	-10	-9	-8	-7	-7	-6	-8	-8	-9	-10	-10	-11	-12	-12	-9.4	-6.4
23-Mar-05			-13	-14	-15	-16	-17	-17	-17	-17	-15	-11	-10	-8	-5	-4	-3	-3	-4	-4	-6	-8	-9	-10	-11	-14	-10.4	-3.0
24-Mar-05			-16	-17	-12	-12	-12	-12	-13	-12	-10	-10	-10	-7	-5	-4	-3	-3	-3	-4	-4	-7	-11	-12	-13	-14	-9.5	-2.5
25-Mar-05			-15	-15	-15	-15	-15	-16	-17	-16	-11	-4	1	4	7	6	7	8	7	7	5	3	-1	-2	-3	-4	-3.9	8.0
26-Mar-05			-5	-7	-7	-7	-7	-7	-3	-2	-1	-1	0	2	5	5	5	6	7	6	4	3	1	1	1	1	0.0	6.8
27-Mar-05			0	-1	-2	-2	-1	-2	-2	0	3	5	5	8	8	9	8	7	8	8	6	4	2	1	0	-1	3.1	8.9
28-Mar-05			-2	-3	-3	-3	-4	-5	-5	-4	-2	0	1	3	3	4	5	6	7	7	6	4	3	1	2	0	0.9	7.5
29-Mar-05			-1	-1	-2	-2	-2	-3	-3	-1	1	3	5	6	7	7	8	8	7	7	6	5	4	3	2	1	2.6	7.8
30-Mar-05			1	1	1	1	0	0	0	0	1	2	3	4	5	6	6	7	7	6	5	4	3	2	1	0	2.8	6.9
31-Mar-05			0	-1	-1	-3	-3	-3	-2	0	3	6	8	10	11	11	11	10	11	10	10	9	7	7	6	5	5.0	11.1
Hourly Avg			-2.8	-3.2	-3.5	-3.8	-4.0	-4.3	-4.5	-4.0	-2.7	-1.1	0.3	1.8	3.0	3.9	4.4	4.4	4.2	3.5	2.3	1.1	0.0	-0.6	-1.2	-2.0		
Hourly Max			7.6	7.8	7.4	6.5	6.6	7.8	6.9	7.2	8.3	8.4	8.7	9.5	10.6	11.1	12.3	11.0	10.9	10.0	9.7	8.9	8.1	7.8	7.8	7.4		

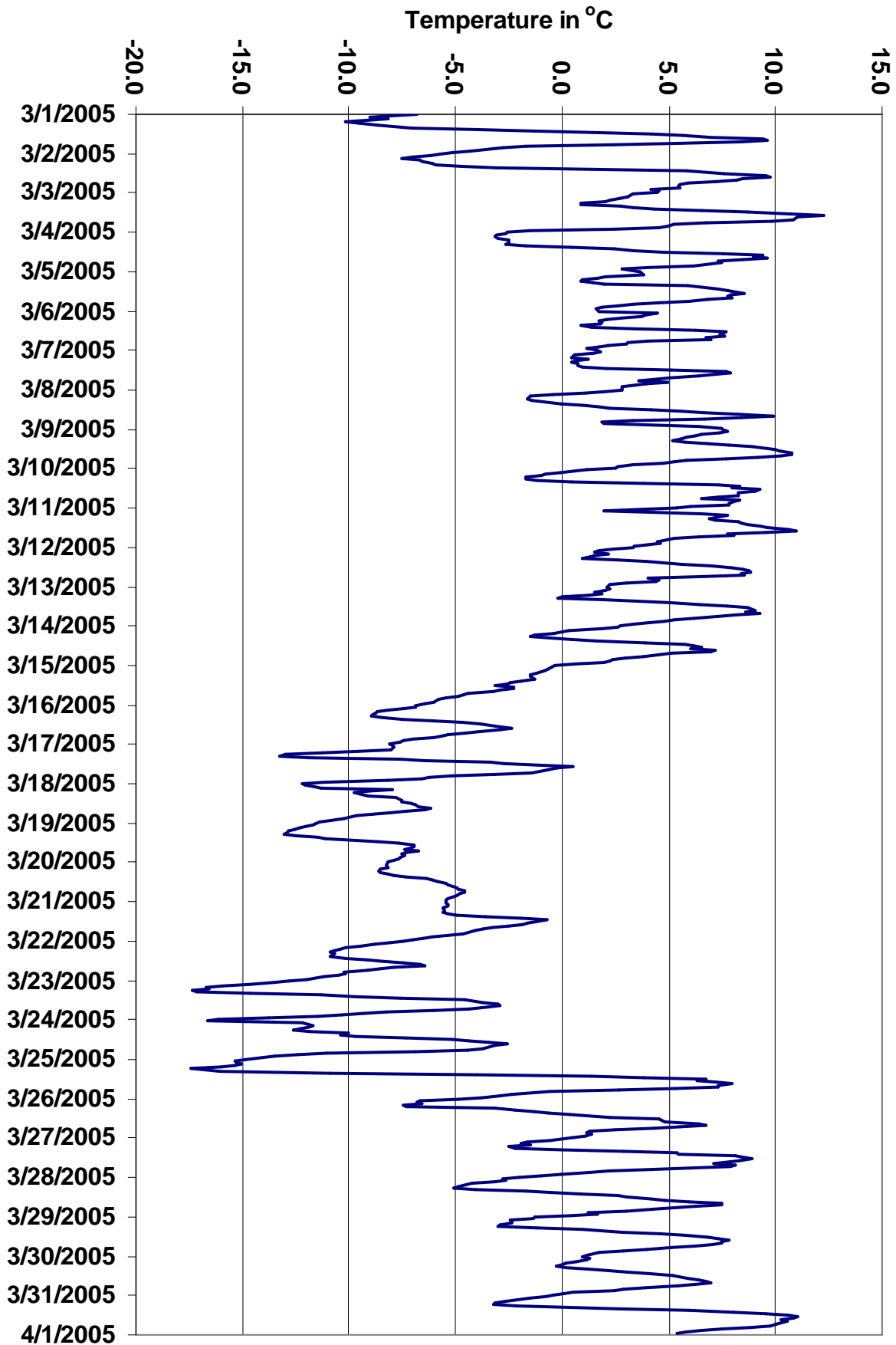


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY AVERAGE TABLE

Solar Radiation (SR - W/m²)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	700.1	W/m ²	27-Mar	13:00 14:00
Maximum 24-hr Average:	220.6	W/m ²	30-Mar	

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
	640.4	548.5	235.4	4.7	-0.1	-0.1	-0.1	129.1 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	0	1	0	0	0	0	0	0	3	45	110	191	289	307	271	321	372	269	112	11	0	0	0	0	0	96	372
2-Mar-05	1	0	0	0	0	0	0	0	1	27	89	223	353	408	458	307	197	142	49	5	0	0	0	0	1	94	458
3-Mar-05	0	0	0	0	0	0	0	0	3	52	116	208	318	402	465	418	357	237	126	13	0	0	0	1	0	113	465
4-Mar-05	0	0	0	0	0	0	0	0	6	61	154	290	290	294	359	362	228	181	52	6	0	0	1	0	0	95	362
5-Mar-05	0	0	0	0	0	0	0	0	3	64	161	242	255	178	166	146	96	74	16	2	0	1	0	0	0	58	255
6-Mar-05	0	0	0	0	0	0	0	0	3	25	15	104	338	517	588	484	383	225	148	11	1	0	0	0	0	118	588
7-Mar-05	0	0	0	0	0	0	0	0	2	23	55	75	105	228	317	195	88	58	13	5	0	0	0	0	0	48	317
8-Mar-05	0	0	0	0	0	0	0	0	9	59	64	99	103	277	257	193	253	264	80	21	0	0	0	0	0	70	277
9-Mar-05	0	0	0	0	0	0	0	0	10	122	265	388	480	529	537	499	412	285	133	25	0	0	0	0	0	153	537
10-Mar-05	0	0	0	0	0	0	0	0	19	123	259	405	284	165	211	166	105	50	22	6	0	0	0	0	0	76	405
11-Mar-05	0	0	0	0	0	0	0	0	17	106	111	204	321	438	549	581	262	158	160	37	0	0	0	0	0	123	581
12-Mar-05	0	0	0	0	0	0	0	0	17	134	281	403	493	541	532	420	340	190	174	45	0	0	0	0	0	149	541
13-Mar-05	0	0	0	0	0	0	0	0	21	142	279	400	490	552	575	455	244	298	82	22	0	0	0	0	0	148	575
14-Mar-05	0	0	0	0	0	0	0	0	14	31	98	312	484	542	471	329	375	299	91	18	0	0	0	0	0	128	542
15-Mar-05	0	0	0	0	0	0	0	0	11	61	102	125	129	143	226	199	193	112	56	17	0	0	0	0	0	57	226
16-Mar-05	0	0	0	0	0	0	0	0	14	80	195	304	384	414	417	409	362	219	126	28	0	0	0	0	0	123	417
17-Mar-05	0	0	0	0	0	1	0	0	29	154	314	453	549	599	603	564	477	353	206	55	1	0	0	0	0	182	603
18-Mar-05	0	0	0	0	1	0	0	0	54	140	217	260	222	331	340	282	264	158	83	31	1	0	0	0	0	99	340
19-Mar-05	0	0	0	1	0	0	0	0	20	107	213	260	497	507	580	459	337	195	131	24	1	0	0	0	0	139	580
20-Mar-05	0	0	1	0	0	0	0	0	16	75	172	261	275	298	314	257	236	156	96	25	1	0	0	0	0	91	314
21-Mar-05	0	1	0	0	0	0	0	0	23	71	211	295	366	341	405	313	197	132	84	30	1	0	0	0	0	103	405
22-Mar-05	1	0	0	0	0	0	0	1	51	150	209	408	544	575	630	590	560	219	144	56	2	0	0	0	1	173	630
23-Mar-05	0	0	0	0	0	0	0	1	30	134	252	310	336	519	629	601	517	388	239	87	4	0	0	0	1	169	629
24-Mar-05	0	0	0	0	0	0	0	2	74	222	355	494	591	643	644	604	516	389	241	88	4	0	1	0	0	203	644
25-Mar-05	0	0	0	0	0	0	0	3	78	228	373	506	598	658	637	587	479	354	238	96	4	1	0	0	0	202	658
26-Mar-05	0	0	0	0	0	0	0	2	40	120	168	235	260	328	206	216	252	312	207	82	7	0	0	0	0	101	328
27-Mar-05	0	0	0	0	0	0	0	4	108	265	311	338	608	637	700	519	345	362	275	103	6	0	0	0	0	191	700
28-Mar-05	0	0	0	0	0	0	0	2	42	102	95	162	167	196	289	240	409	398	251	107	5	0	0	0	0	103	409
29-Mar-05	0	0	0	0	0	0	0	7	103	227	405	532	620	665	668	609	535	337	192	61	4	0	0	0	0	207	668
30-Mar-05	0	0	0	0	0	0	0	7	108	261	411	535	627	675	677	633	542	427	272	112	7	0	0	0	0	221	677
31-Mar-05	0	0	0	0	0	0	0	9	117	258	405	530	587	600	564	360	244	264	81	29	8	0	0	0	0	169	600
Hourly Avg	0	0	0	0	0	0	1	34	118	209	308	386	436	461	397	328	242	135	41	2	0	0	0	0	0		
Hourly Max	1	1	1	1	1	1	9	117	265	411	535	627	675	700	633	560	427	275	112	8	1	1	1	1	1		

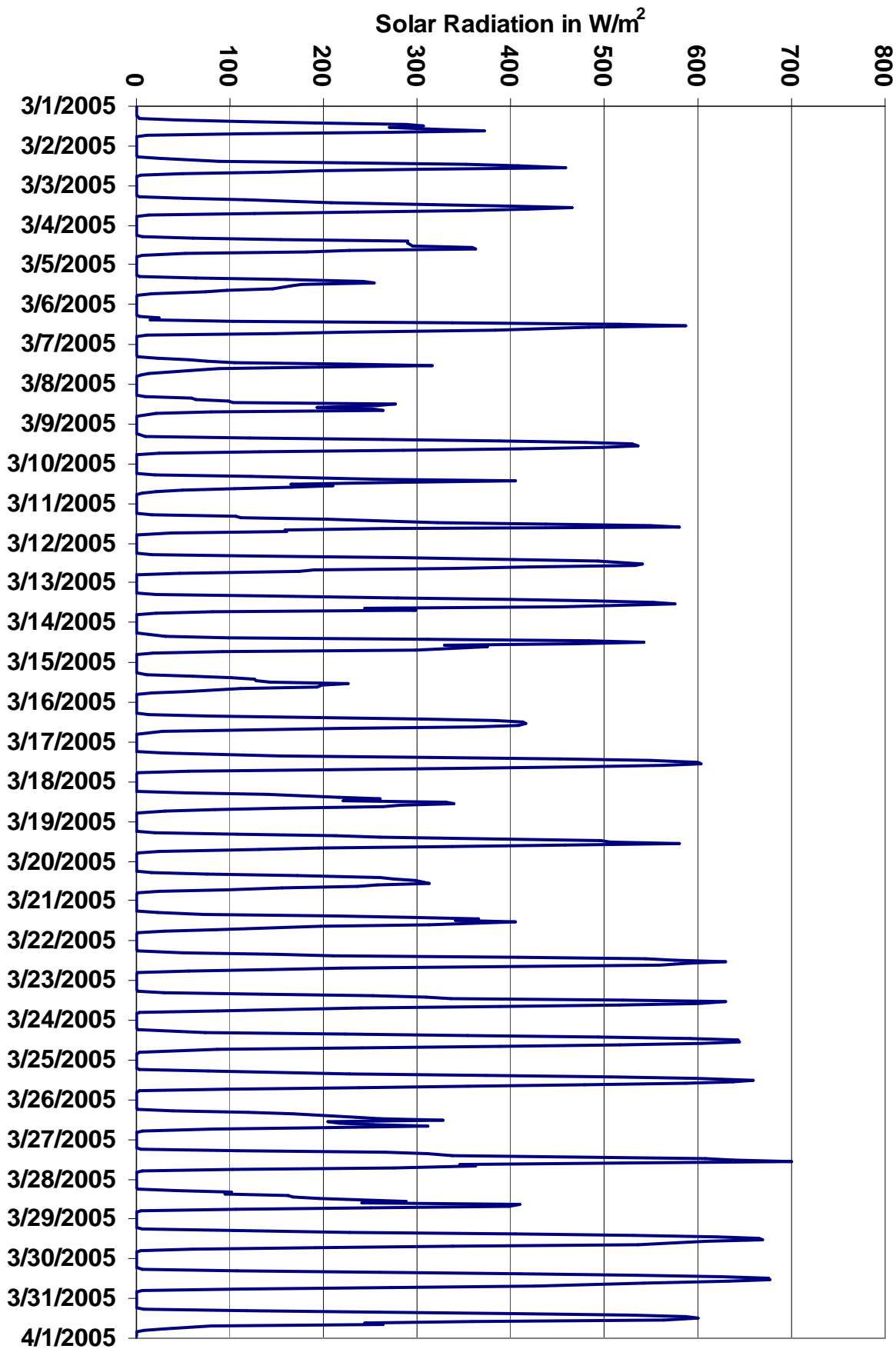


Figure 19. PASZA - Henry Pirkker Solar Radiation 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY AVERAGE TABLE

Wind Speed (WSv - Km/hr)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Average:	36.0	km/hr	7-Mar	14:00 15:00
Maximum 24-hr Average:	24.4	km/hr	9-Mar	

Calm Time:	8 hrs	1% calms	Operational Time:	736 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	AverageS	AverageV
	32.3	25.6	14.5	9.2	5.0	2.5	1.3	10.6 km/hr	3.7 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max	
Hour Start 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-Mar-05	5	5	5	6	4	4	5	3	4	4	3	4	2	3	2	6	7	6	6	calm	5	4	5	4	2.8	7.5
2-Mar-05	4	4	5	2	4	2	4	4	4	3	calm	3	5	8	10	19	20	15	10	12	11	11	8	11	6.5	19.7
3-Mar-05	9	10	12	10	10	9	7	7	10	1	5	7	8	5	5	7	5	6	5	7	8	8	2	5	2.0	11.7
4-Mar-05	5	4	4	3	3	2	3	5	2	3	4	4	2	2	11	17	14	8	8	8	4	calm	7	6	4.0	16.6
5-Mar-05	5	4	4	3	1	4	2	5	5	2	8	8	4	calm	6	4	5	6	4	3	2	6	4	2	1.7	8.4
6-Mar-05	6	15	14	21	23	18	14	15	17	10	3	5	8	9	10	11	10	7	5	6	8	3	3	4	9.0	22.7
7-Mar-05	5	4	2	4	1	8	9	7	3	6	9	14	26	28	36	31	22	14	8	14	17	15	10	15	8.6	36.0
8-Mar-05	16	10	5	3	3	1	5	5	5	5	4	2	5	7	6	5	7	3	3	5	6	6	20	17	1.7	20.3
9-Mar-05	22	33	36	32	27	30	33	29	26	26	26	27	26	28	26	24	27	26	23	20	17	15	10	2	24.4	36.0
10-Mar-05	6	1	3	3	4	3	4	4	5	4	5	4	1	3	3	3	2	3	2	10	7	4	7	9	2.8	10.0
11-Mar-05	7	3	2	9	17	26	19	19	26	31	29	33	35	31	34	32	29	30	25	23	23	24	22	21	22.5	34.8
12-Mar-05	20	22	19	18	21	16	15	14	13	16	17	20	19	23	21	18	16	14	10	9	10	15	7	10	15.6	22.9
13-Mar-05	12	14	15	11	18	18	13	13	15	18	17	20	17	16	16	12	11	7	2	4	5	7	9	11	10.1	19.7
14-Mar-05	9	8	8	4	8	8	8	8	7	4	8	6	6	4	5	4	5	9	9	10	8	8	10	11	3.3	10.7
15-Mar-05	11	9	8	11	11	12	11	11	14	16	18	16	17	14	15	18	15	16	13	12	13	12	13	12	12.9	18.0
16-Mar-05	10	12	10	11	10	10	10	10	10	10	11	11	12	10	10	12	12	12	11	10	10	10	10	11	9.1	12.2
17-Mar-05	11	9	9	8	7	2	4	4	4	4	5	5	7	7	8	10	9	10	9	6	5	7	4	6	4.4	10.8
18-Mar-05	7	7	6	4	10	9	9	11	17	19	18	17	20	20	17	14	12	13	12	12	12	13	13	13	12.2	19.7
19-Mar-05	12	10	11	10	10	10	10	9	9	11	11	11	11	12	13	13	12	13	12	14	15	17	17	18	11.9	18.1
20-Mar-05	17	17	18	18	18	20	21	20	21	20	20	19	18	17	17	15	14	12	11	12	14	14	15	15	16.6	20.8
21-Mar-05	14	13	14	15	15	14	10	8	10	10	8	8	9	12	11	12	12	12	10	12	15	16	15	17	6.9	16.9
22-Mar-05	18	19	17	18	15	17	18	18	18	20	22	21	21	20	19	20	18	18	15	12	12	13	10	7	16.9	21.9
23-Mar-05	5	4	5	4	4	6	4	5	5	5	6	7	3	8	8	7	8	8	7	7	6	5	4	4	3.0	8.4
24-Mar-05	5	5	8	8	9	11	12	8	6	8	11	8	7	9	8	7	8	7	5	5	6	6	5	7	2.9	11.7
25-Mar-05	6	5	5	3	3	3	4	3	4	4	4	6	6	8	8	6	6	3	6	4	1	1	5	4	2.5	8.3
26-Mar-05	calm	2	calm	4	calm	2	9	9	11	11	12	9	8	8	10	11	8	7	8	7	3	5	3	2	6.2	11.6
27-Mar-05	calm	3	3	4	5	2	7	2	5	8	11	16	19	18	18	17	17	14	10	2	4	4	1	1	6.3	18.9
28-Mar-05	2	5	1	5	3	5	6	3	5	7	6	3	7	9	10	10	9	10	11	10	5	3	9	9	3.2	10.9
29-Mar-05	5	6	5	7	8	5	6	8	11	13	17	19	15	19	19	18	14	9	8	7	9	16	14	13	11.4	19.4
30-Mar-05	11	16	19	20	16	23	24	18	25	27	30	29	27	32	30	24	23	28	20	19	14	10	3	3	20.0	32.0
31-Mar-05	1	4	3	3	4	4	6	8	8	11	13	12	12	12	13	10	16	11	11	12	10	8	8	10	7.7	16.2
1-hr Vector	2.8	3.5	3.0	3.5	3.4	3.2	2.6	2.8	3.1	4.1	4.2	5.1	5.8	6.6	7.3	6.8	5.2	4.2	2.5	2.0	2.3	2.2	1.8	1.7		
Hourly Max	22.3	33.0	36.0	32.3	27.4	30.1	33.0	29.0	26.3	30.7	30.1	32.7	34.8	32.0	36.0	32.3	29.1	30.1	25.3	22.7	23.4	24.4	21.8	21.3		

Station: Henry Pirker

HOURLY AVERAGE TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 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
	352.4	332.0	295.6	246.5	90.0	34.6	5.9	303 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average
1-Mar-05	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	340
2-Mar-05		329	330	302	333	311	317	315	341	332	350	288	291	227	312	38	117	107	81	108	44	328	330	316	327	265
3-Mar-05		303	317	318	297	303	34	329	305	304	303	61	188	254	287	290	268	255	254	237	243	231	249	224	223	238
4-Mar-05		236	237	244	251	246	297	314	254	251	209	180	175	178	196	336	21	45	67	77	88	103	104	44	328	260
5-Mar-05		308	338	302	326	319	286	145	148	180	292	309	275	282	284	264	275	256	247	241	214	216	80	155	176	238
6-Mar-05		197	203	124	135	334	171	283	331	229	314	272	234	258	359	107	118	171	183	319	28	206	348	253	244	286
7-Mar-05		292	274	287	301	299	309	290	265	259	274	120	142	234	289	319	296	302	316	270	266	305	244	332	128	261
8-Mar-05		124	133	83	13	118	86	112	104	86	178	232	236	252	259	278	287	286	305	287	265	256	254	242	248	249
9-Mar-05		256	286	321	316	108	130	153	138	115	150	270	358	109	123	112	86	112	61	352	320	321	278	250	248	264
10-Mar-05		253	250	254	255	258	253	254	260	262	264	268	273	271	284	289	276	276	274	266	254	258	258	282	238	224
11-Mar-05		238	245	177	241	136	151	159	136	144	200	198	212	330	80	313	268	221	33	306	265	251	278	222	204	271
12-Mar-05		178	345	290	263	249	251	249	266	264	262	266	274	272	271	273	283	274	287	283	280	283	276	276	281	299
13-Mar-05		298	306	298	293	293	297	302	286	262	263	282	288	296	292	298	306	312	316	310	301	303	349	348	312	315
14-Mar-05		316	306	298	305	314	314	307	304	306	311	318	307	305	304	307	309	326	292	321	96	81	94	65	93	72
15-Mar-05		131	204	219	306	316	297	316	339	326	30	56	81	95	52	33	35	75	98	104	90	98	102	106	100	73
16-Mar-05		107	105	85	87	93	91	96	90	88	79	77	68	63	63	64	63	55	55	58	51	51	59	67	71	29
17-Mar-05		66	63	52	53	48	49	45	47	50	49	51	56	56	43	38	22	21	2	354	345	339	331	329	322	348
18-Mar-05		324	318	309	301	273	261	255	278	304	291	295	309	339	28	39	24	36	63	68	31	42	73	341	328	15
19-Mar-05		323	335	331	354	27	32	8	9	3	5	6	6	4	4	10	17	30	31	38	43	41	34	35	39	53
20-Mar-05		44	45	44	43	37	35	47	45	38	39	42	52	42	57	54	42	39	40	49	51	71	88	85	89	78
21-Mar-05		87	82	85	88	88	81	80	77	80	76	77	74	67	61	57	55	58	54	80	90	94	95	95	93	19
22-Mar-05		90	90	88	85	79	78	78	58	74	68	58	50	7	356	334	337	336	332	325	316	315	314	311	311	308
23-Mar-05		315	315	315	317	309	299	306	307	307	307	306	310	308	306	302	303	308	310	312	313	311	309	289	277	3
24-Mar-05		267	237	282	284	301	296	322	326	282	283	280	288	9	72	56	42	50	56	51	46	52	49	37	9	356
25-Mar-05		350	64	79	82	96	90	90	107	131	282	277	275	282	298	318	344	343	1	353	316	321	324	326	325	331
26-Mar-05		329	310	344	8	330	326	313	317	298	336	301	295	281	291	316	5	356	122	125	124	159	10	107	116	79
27-Mar-05		166	7	94	76	352	98	91	90	91	89	92	93	64	43	56	84	62	68	93	88	101	157	17	27	257
28-Mar-05		314	193	149	151	159	189	192	286	276	247	230	246	264	277	284	286	274	274	286	211	156	143	160	52	174
29-Mar-05		74	151	88	339	335	284	310	309	202	225	187	197	173	173	160	156	157	131	117	112	108	242	234	285	257
30-Mar-05		271	271	267	252	255	288	270	242	241	246	255	256	255	269	258	267	278	273	233	225	249	252	251	247	270
31-Mar-05		243	254	255	252	255	253	255	253	255	269	283	287	287	282	283	296	283	274	263	257	273	260	317	287	166
Hourly Avg		306	238	101	60	109	111	120	122	127	155	166	182	203	187	202	190	178	158	147	169	169	158	157	151	166
		296	292	301	311	306	304	301	305	282	289	291	287	293	303	309	315	310	324	321	304	303	311	306	291	

Station: Henry Pirker

STANDARD DEVIATION TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	58.3	44.4	18.0	10.5	6.1	3.7	3.0

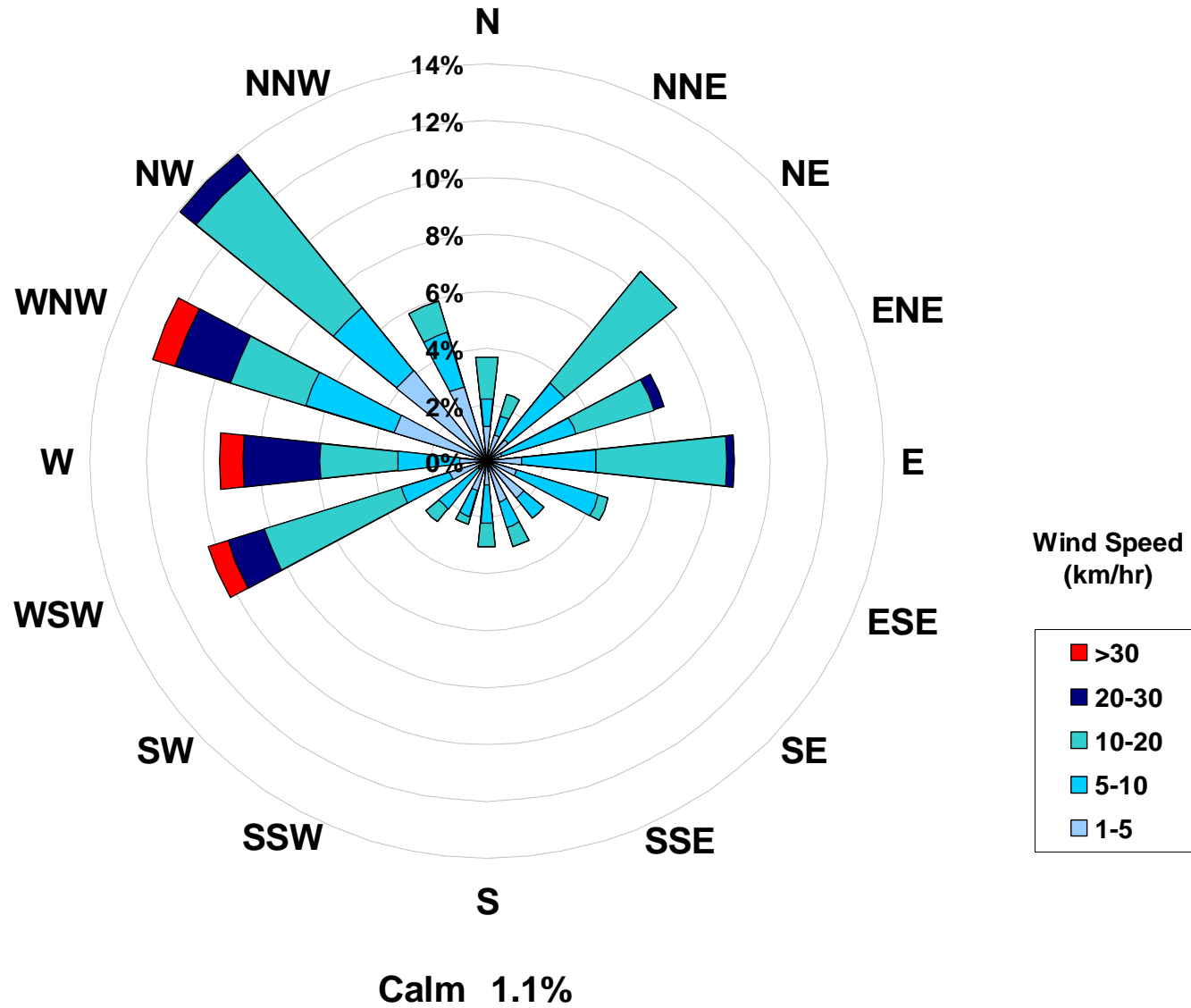
Status Flag Characters

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	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-Mar-05	21	11	12	8	14	21	11	33	24	35	25	29	32	29	37	18	10	18	14	42	16	16	21	9	42.4
2-Mar-05	19	23	13	43	32	54	36	39	44	33	57	50	18	10	17	5	4	4	7	4	5	6	12	5	56.7
3-Mar-05	7	6	6	4	4	19	11	15	10	25	13	9	12	20	17	11	16	15	17	10	5	4	20	21	25.1
4-Mar-05	12	17	19	58	37	40	23	18	55	37	26	38	59	24	32	4	7	13	14	7	24	44	10	9	59.1
5-Mar-05	12	24	13	38	62	32	50	40	30	48	12	8	35	56	12	17	15	26	37	51	40	24	27	37	62.0
6-Mar-05	16	5	6	2	3	5	4	7	5	14	46	17	16	16	11	11	7	18	30	20	17	49	38	15	48.6
7-Mar-05	18	25	32	28	62	13	11	14	35	24	12	7	4	5	4	3	5	12	13	6	4	4	7	5	62.1
8-Mar-05	4	10	23	52	28	39	11	10	14	14	28	25	32	22	14	28	15	30	34	20	25	15	8	8	51.8
9-Mar-05	5	3	3	3	5	3	4	5	5	5	5	4	6	5	5	5	6	4	4	4	4	5	10	40	40.4
10-Mar-05	10	59	25	44	22	26	27	12	11	14	24	33	67	42	37	31	25	28	75	14	18	54	14	10	75.2
11-Mar-05	17	46	56	9	13	4	6	7	5	4	5	5	5	6	6	6	5	3	3	3	3	4	3	3	55.9
12-Mar-05	10	6	3	3	3	5	3	4	7	5	7	8	9	9	8	7	5	5	6	8	12	9	17	6	16.8
13-Mar-05	5	3	3	5	5	3	3	3	4	5	7	7	12	14	11	11	13	9	30	29	42	8	11	8	41.8
14-Mar-05	8	36	13	19	7	7	7	7	10	29	17	33	35	33	35	49	33	16	7	5	10	8	9	7	49.3
15-Mar-05	9	7	8	9	5	5	6	8	6	7	6	8	7	8	7	7	11	8	8	12	9	9	9	9	11.9
16-Mar-05	9	9	13	10	12	13	11	13	12	13	11	12	11	15	15	11	12	6	4	7	6	4	5	5	14.8
17-Mar-05	5	7	6	8	10	22	17	23	9	14	9	14	10	15	20	15	13	11	9	11	15	12	22	6	22.8
18-Mar-05	8	8	5	22	12	12	8	6	5	5	7	7	5	6	8	11	15	11	10	11	11	10	11	10	22.0
19-Mar-05	12	15	14	17	13	13	12	16	17	11	13	19	18	13	16	12	11	10	9	8	8	6	6	6	19.1
20-Mar-05	5	6	6	5	6	6	6	5	5	6	7	8	8	7	8	8	8	10	9	8	6	6	6	6	9.7
21-Mar-05	6	6	6	6	6	7	9	10	10	10	17	19	16	6	11	8	7	6	5	5	5	4	4	4	19.3
22-Mar-05	4	4	4	4	4	4	3	4	4	5	4	6	6	6	6	5	6	5	6	4	5	5	4	10	10.1
23-Mar-05	13	14	14	13	10	6	8	9	11	7	4	6	34	16	21	19	19	15	18	12	12	17	17	21	34.0
24-Mar-05	10	13	6	7	6	5	5	9	31	6	8	16	14	9	13	14	13	12	28	16	6	9	12	9	30.6
25-Mar-05	12	12	10	52	33	35	14	35	34	18	30	17	13	9	11	16	20	54	8	27	45	65	8	19	64.6
26-Mar-05	25	31	44	18	37	46	7	6	7	7	8	13	13	16	11	10	13	21	14	20	40	48	52	54	53.7
27-Mar-05	38	31	36	32	43	59	29	31	23	12	6	6	6	5	4	3	3	5	3	15	10	16	29	52	58.8
28-Mar-05	43	12	45	9	32	32	18	51	24	17	15	35	14	10	10	11	16	14	7	5	44	46	8	11	50.6
29-Mar-05	15	11	17	15	12	32	19	9	7	6	5	8	9	8	9	7	7	11	8	17	15	4	5	6	32.3
30-Mar-05	7	5	5	4	5	3	4	4	5	6	7	6	5	6	5	7	8	5	5	5	5	10	42	24	41.9
31-Mar-05	24	50	24	38	14	19	10	9	8	11	11	13	19	17	16	12	9	7	7	7	5	6	5	7	49.6
Hourly Max	43	59	56	58	62	59	50	51	55	48	57	50	67	56	37	49	33	54	75	51	45	65	52	54	

Wind Rose for the 1-hr Average Meterological Data at the Henry Pirker Site for March 2005



PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	8.2 ppb 4-Mar 14:00 15:00
Maximum 24-hr Average:	1.9 ppb 3-Mar

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

AIC Time:	32 hrs	Operational Time:	703 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%
Percentile	99	95	75
	3.5	2.0	0.9
	50	25	5
	0.5	0.0	0.0
	1	0.0	0.0
	Average		
	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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-05	2	1	0	0	0	A	1	1	1	2	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1.0	2.1	
2-Mar-05	2	2	3	2	A	1	1	1	2	3	2	1	1	1	2	2	1	1	1	1	1	0	0	0	1.4	3.0	
3-Mar-05	0	0	0	A	1	3	4	4	4	3	4	4	3	2	2	2	2	2	2	1	1	0	0	0	1.9	4.5	
4-Mar-05	0	0	A	1	1	1	1	1	1	1	1	3	3	8	8	3	2	1	1	1	1	1	1	0	1.8	8.2	
5-Mar-05	1	A	1	1	1	1	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.6	2.3	
6-Mar-05	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.6	
7-Mar-05	2	2	2	3	2	2	2	1	1	1	1	2	2	0	0	1	1	0	0	1	1	1	A	0	1.2	2.5	
8-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	N	N	N	A	0	N	0.0	
9-Mar-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	
10-Mar-05	0	0	0	0	0	A	1	1	1	1	0	0	0	0	2	2	1	0	1	1	1	0	0	0	0.6	1.9	
11-Mar-05	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
12-Mar-05	1	1	1	A	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.6	
13-Mar-05	0	0	A	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.9	
14-Mar-05	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	1.1	
15-Mar-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	0.1	0.5	
16-Mar-05	1	1	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	A	1	0.4	1.1	
17-Mar-05	1	1	1	2	1	1	1	1	0	0	1	2	2	1	2	2	2	2	2	2	2	1	0	1	0	1.2	2.2
18-Mar-05	0	0	0	0	0	A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
19-Mar-05	0	0	0	0	A	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0.5	1.0	
20-Mar-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1.0	1.3	
21-Mar-05	1	1	A	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0.6	1.4	
22-Mar-05	1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	0	1	1.1	2.4	
23-Mar-05	A	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	A	0.3	1.2	
24-Mar-05	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	1	1	1	0	0	1	A	1	0.6	1.9	
25-Mar-05	1	0	0	1	0	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.5	
26-Mar-05	0	0	0	0	0	0	0	0	0	0	1	2	3	1	0	0	0	0	1	0	A	0	0	0	0.4	2.8	
27-Mar-05	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0.3	0.7	
28-Mar-05	1	0	0	0	0	0	1	1	2	1	2	1	1	0	0	0	0	0	A	1	0	0	0	0	0.6	2.1	
29-Mar-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	1	1	0	0.3	0.9	
30-Mar-05	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	1	1	1	1	1	0	1	0.5	1.0	
31-Mar-05	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	1.2	
Hourly Avg	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.7	0.9	1.0	0.8	0.8	0.7	0.8	0.9	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.4	0.5			
Hourly Max	2.4	2.4	2.5	2.5	2.3	3.5	3.6	3.7	4.5	3.4	3.8	3.7	3.4	8.1	8.2	2.7	2.0	1.9	1.6	1.7	1.2	1.3	1.3	1.4			

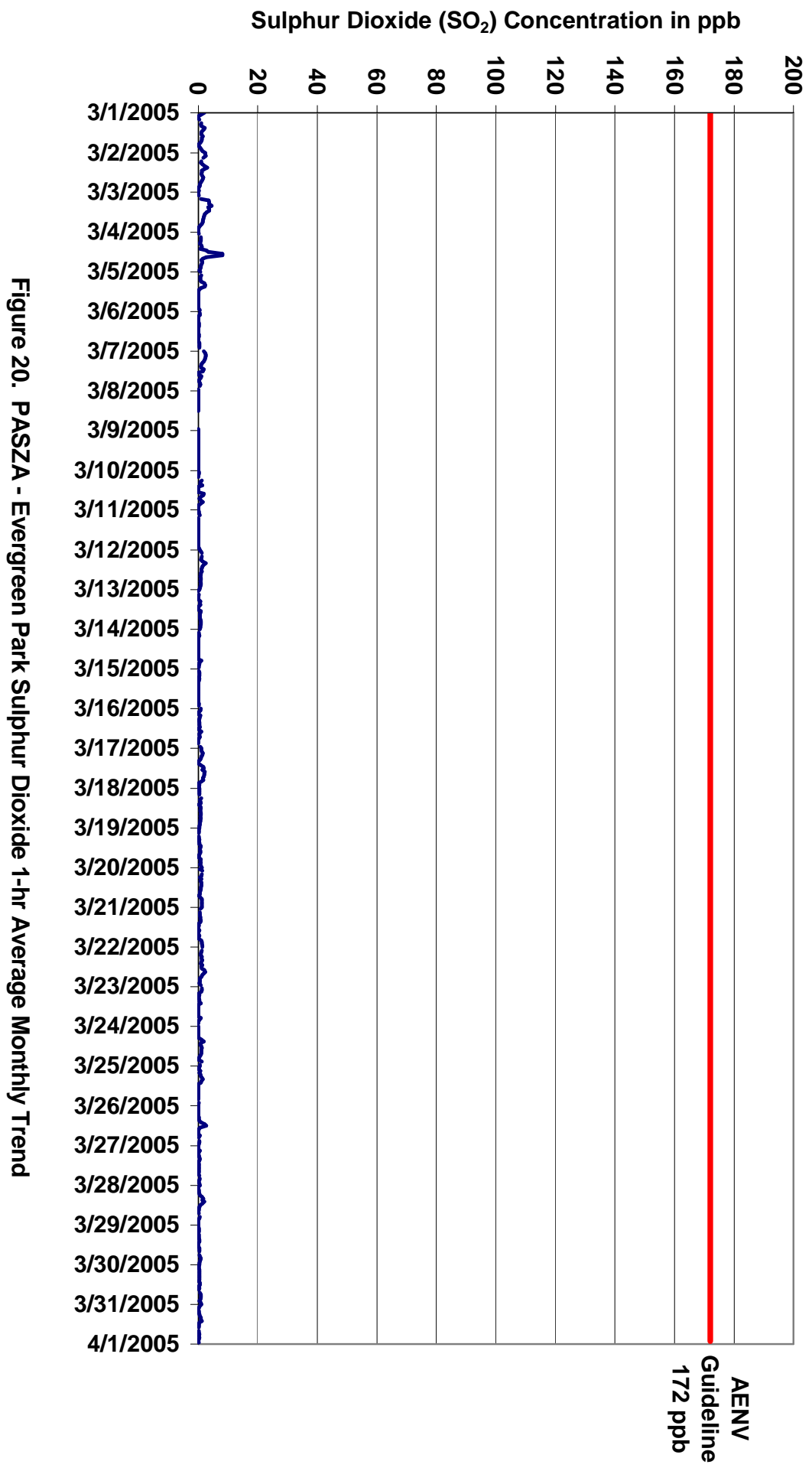


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Value:	22.2	ppb	4-Mar	13:00 14:00
Maximum 24-hr Value:	3.8	ppb	4-Mar	

AIC Time:	32 hrs	Operational Time:	703 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%					
Percentile	99	95	75	50	25	5	1	Average
	5.5	3.5	2.2	1.6	0.9	0.0	0.0	1.7 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-Mar-05	4	2	1	1	2	A	2	2	2	4	4	2	2	3	3	3	2	2	2	2	2	2	3	3	2.4	3.6	
2-Mar-05	4	3	4	3	A	2	2	3	3	4	4	2	3	2	3	3	2	3	2	2	2	1	1	1	2.6	4.0	
3-Mar-05	1	1	2	A	4	6	5	5	7	5	5	4	3	3	3	3	3	2	2	2	2	1	1	1	3.2	7.0	
4-Mar-05	1	1	A	2	2	2	2	2	2	3	2	4	5	22	11	8	3	2	3	2	2	2	2	1	3.8	22.2	
5-Mar-05	2	A	2	2	2	2	2	3	4	3	2	1	1	1	1	0	0	1	1	1	1	1	1	2	1.6	4.5	
6-Mar-05	A	2	2	2	1	1	1	1	1	2	0	0	0	1	1	1	1	1	2	2	2	2	2	A	1.3	2.1	
7-Mar-05	4	3	4	4	3	3	3	2	2	2	2	4	3	2	1	3	2	2	2	2	2	2	A	1	2.6	4.1	
8-Mar-05	0	1	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	N	N	N	A	0	N	1.4	
9-Mar-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	
10-Mar-05	0	1	2	1	1	A	2	2	2	3	1	1	0	1	4	3	2	2	2	3	2	2	1	1	1.7	3.6	
11-Mar-05	1	1	1	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.5	1.9
12-Mar-05	2	2	2	A	2	2	2	4	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2.3	3.8	
13-Mar-05	2	1	A	1	1	0	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1.7	2.4	
14-Mar-05	2	A	1	2	2	1	1	1	1	0	1	1	0	0	0	0	1	1	1	2	2	2	1	1	1.0	2.5	
15-Mar-05	A	1	2	2	1	1	1	2	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	A	1.0	1.8	
16-Mar-05	2	2	2	1	2	2	1	1	1	1	1	1	2	2	3	1	1	2	2	1	1	1	A	2	1.6	2.6	
17-Mar-05	2	2	2	3	2	2	2	4	1	1	2	3	3	3	4	3	3	3	3	3	3	2	2	2	2.5	3.7	
18-Mar-05	2	2	2	2	2	A	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	2.9	
19-Mar-05	2	1	2	1	A	2	1	1	1	2	1	2	2	2	2	2	1	1	2	2	2	2	2	2	1.7	2.4	
20-Mar-05	2	2	3	A	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2.2	2.8	
21-Mar-05	2	2	A	2	2	2	2	2	2	2	2	1	1	1	3	1	1	2	2	1	2	3	3	3	1.9	2.8	
22-Mar-05	3	A	2	2	2	2	2	2	3	2	2	3	2	2	4	3	3	3	2	2	2	2	2	2	2.4	3.6	
23-Mar-05	A	3	3	5	2	2	2	2	2	2	3	1	1	1	1	0	0	0	0	3	2	2	1	A	1.6	4.5	
24-Mar-05	1	1	1	1	1	1	1	3	2	6	3	3	3	2	2	3	3	2	2	2	1	3	A	2	2.1	6.1	
25-Mar-05	2	1	2	2	2	2	2	3	3	3	3	1	0	0	0	0	0	1	0	0	1	A	1	0	1.3	3.1	
26-Mar-05	1	0	0	0	0	1	0	1	1	1	1	2	5	5	1	1	1	1	1	1	A	1	1	1	1.2	5.5	
27-Mar-05	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	2	1.0	1.5	
28-Mar-05	3	1	1	1	1	1	2	2	3	2	3	3	2	1	1	1	1	1	A	1	1	1	1	1	1.4	3.1	
29-Mar-05	0	1	1	1	1	0	1	1	1	1	1	0	0	0	2	1	1	A	1	1	2	2	1	1	0.9	1.7	
30-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	2	1	2	1.1	2.1	
31-Mar-05	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	A	1	1	1	1	1	2	1	1.1	2.4	
Hourly Avg	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.9	2.0	2.1	1.9	1.8	1.7	2.1	2.0	1.8	1.5	1.5	1.5	1.6	1.6	1.6	1.4	1.4			
Hourly Max	3.9	3.5	3.7	4.5	4.2	5.6	5.0	5.1	7.0	6.1	5.5	5.2	5.5	22.2	11.5	8.3	3.3	3.4	2.7	3.2	2.6	3.0	2.8	2.8			

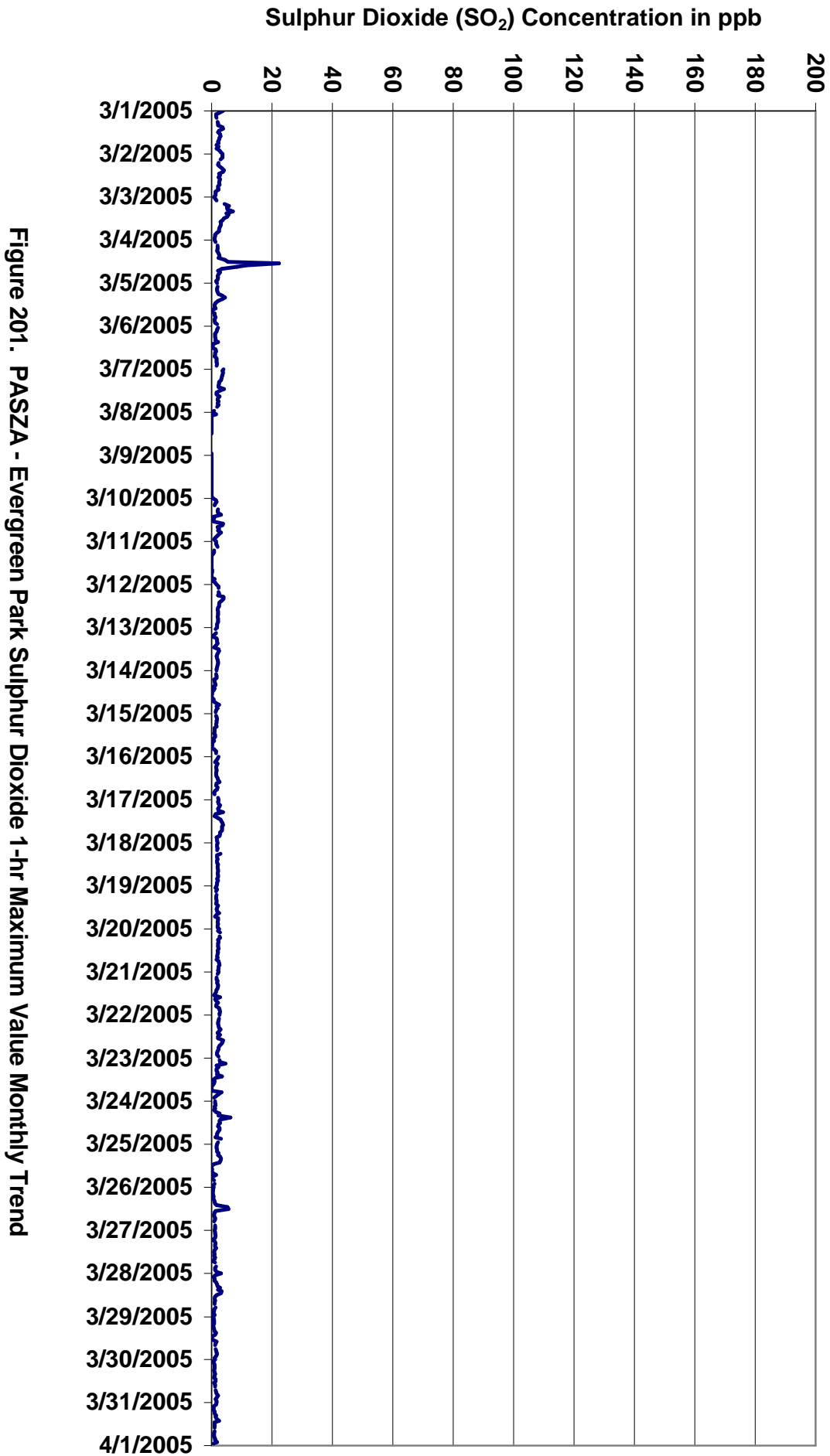
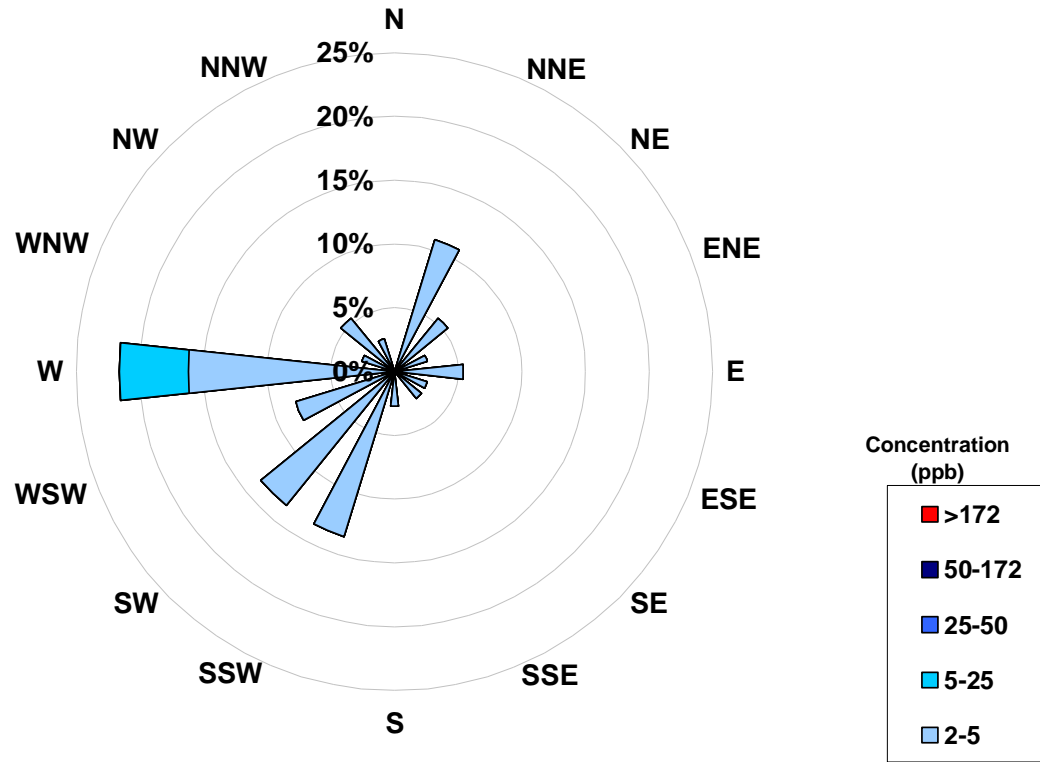


Figure 201. PASZA - Evergreen Park Sulphur Dioxide 1-hr Maximum Value Monthly Trend

Concentration Rose for the 1-hr SO₂ Average Concentration Occurrences at the Evergreen Park Site for March 2005



Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0	<	2	666
2	to	5	35
5	to	25	2
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			703

Calms	
Range	
ppb	
2-5	0.0%
5-25	0.0%
25-50	0.0%
50-172	0.0%
>172	0.0%

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.5 ppb 5-Mar 6:00 7:00
Maximum 24-hr Average:	0.8 ppb 5-Mar

H₂S Guideline Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

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	
	1.2	0.9	0.7
	0.6	0.5	0.4
	0.4	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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Mar-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	0.7	1.3	
2-Mar-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.8	1.5	
3-Mar-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0.6	0.8	
4-Mar-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	0.7	1.0	
5-Mar-05	1	A	1	1	1	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.8	1.5	
6-Mar-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	0.7	1.1	
7-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	0.6	0.8	
8-Mar-05	0	1	0	0	0	0	0	0	1	0	1	1	0	0	C	C	C	C	C	1	1	1	A	0	N	1.1	
9-Mar-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	0.4	0.5	
10-Mar-05	0	0	0	0	0	A	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0	
11-Mar-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	0.6	0.9	
12-Mar-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	0.7	0.7	
13-Mar-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.9	
14-Mar-05	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0.5	0.7	
15-Mar-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	0.6	0.7	
16-Mar-05	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1	0	0	1	1	A	1	0.6	0.8	
17-Mar-05	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	0	1	0	0	1	1	1	1	0.6	0.7	
18-Mar-05	1	1	1	1	1	A	1	1	1	0	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0.5	0.7	
19-Mar-05	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.5	
20-Mar-05	0	0	0	A	1	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0.5	0.6	
21-Mar-05	1	1	A	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	1	1	1	0.6	0.8	
22-Mar-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	0.7	0.8	
23-Mar-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	0	A	0.6	0.9	
24-Mar-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	0.7	1.0	
25-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	A	1	1	0.6	0.8	
26-Mar-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	0.6	0.7	
27-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	A	1	1	1	1	0.6	0.8	
28-Mar-05	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8	
29-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.7	
30-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	1	1	1	1	1	1	0.6	0.6	
31-Mar-05	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	A	0	0	0	0	0	1	0	1	0.5	0.7	
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Hourly Max	1.0	1.0	1.1	0.9	0.9	1.3	1.5	1.5	1.5	1.5	1.3	1.0	0.8	0.7	0.7	0.7	0.7	0.8	0.9	1.0	1.0	1.1	1.1	0.9	0.9	0.9	

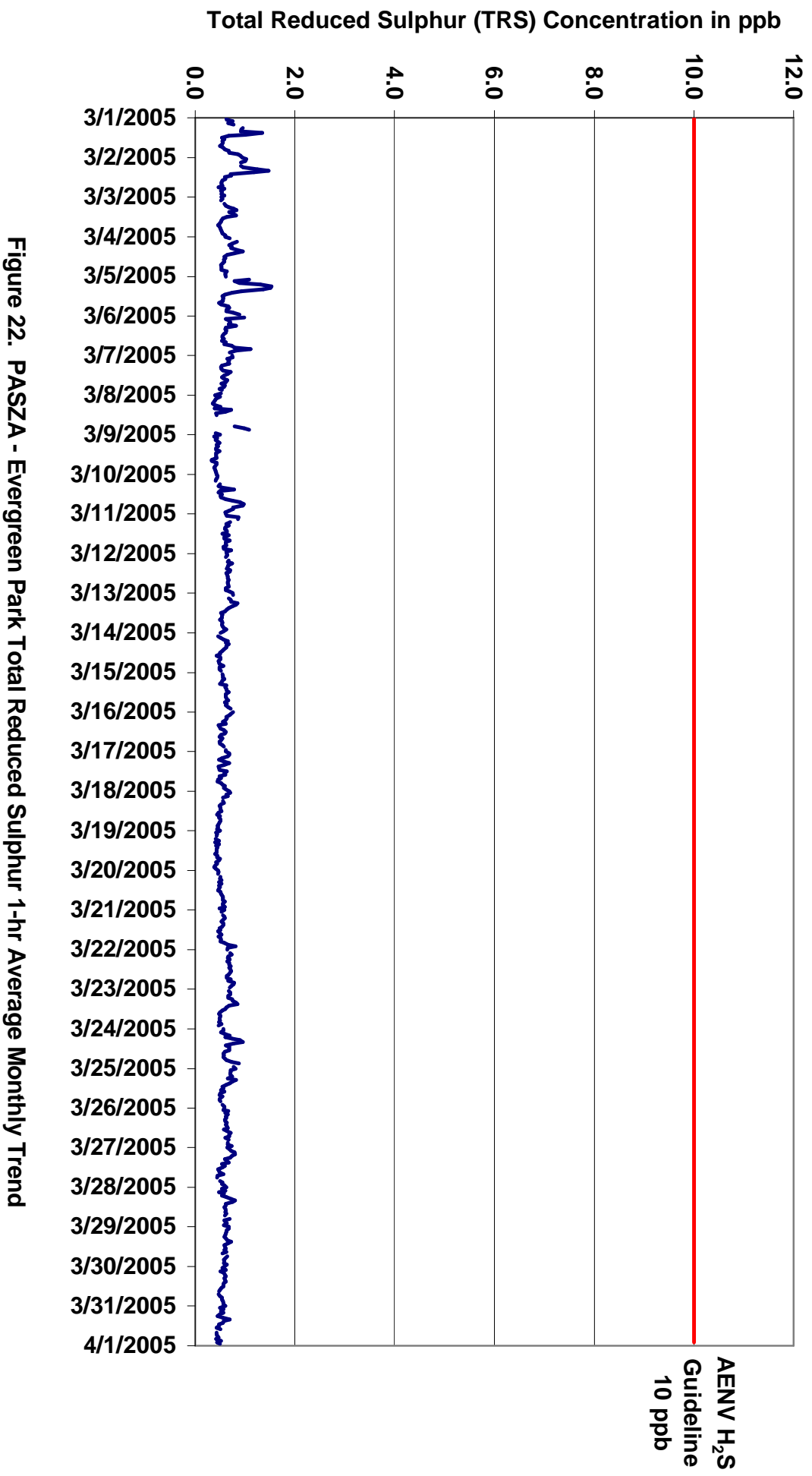


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	4.1	ppb	8-Mar	1:00 2:00
Maximum 24-hr Value:	1.4	ppb	5-Mar	

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	1.5	1.2	1.1	1.0	0.9	0.8	1.1 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Mar-05			1	1	1	1	1	A	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.9	
2-Mar-05			1	2	1	1	A	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.2	
3-Mar-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	1.5	
4-Mar-05			1	1	A	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.6	
5-Mar-05			1	A	2	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.4	2.2	
6-Mar-05			A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1.2	2.1	
7-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1.1	1.7	
8-Mar-05			1	4	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	C	4	1	2	A	1	N	4.1	
9-Mar-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	0.9	1.2	
10-Mar-05			1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.1	2.0	
11-Mar-05			1	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.7	
12-Mar-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	
13-Mar-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	1.1	1.3	
14-Mar-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	
15-Mar-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	1.1	1.3	
16-Mar-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	1.4	
17-Mar-05			1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.9
18-Mar-05			1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
19-Mar-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	1.1	
20-Mar-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	
21-Mar-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	1.1	1.3	
22-Mar-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	1.2	1.3	
23-Mar-05			A	1	1	3	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1.2	3.0	
24-Mar-05			1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1.2	1.8	
25-Mar-05			1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	A	1	1	1	1.1	1.7	
26-Mar-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	1.2	1.4	
27-Mar-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	1.1	1.3	
28-Mar-05			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.6	
29-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.4	
30-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.0	1.2	
31-Mar-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	1.0	1.2	
Hourly Avg			1.1	1.2	1.1	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.0	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1		
Hourly Max			1.6	4.1	1.8	3.0	1.5	2.1	2.2	2.0	2.2	1.9	1.8	1.5	1.3	1.3	1.4	1.3	1.3	1.7	1.7	3.6	2.1	1.8	1.4	1.5			

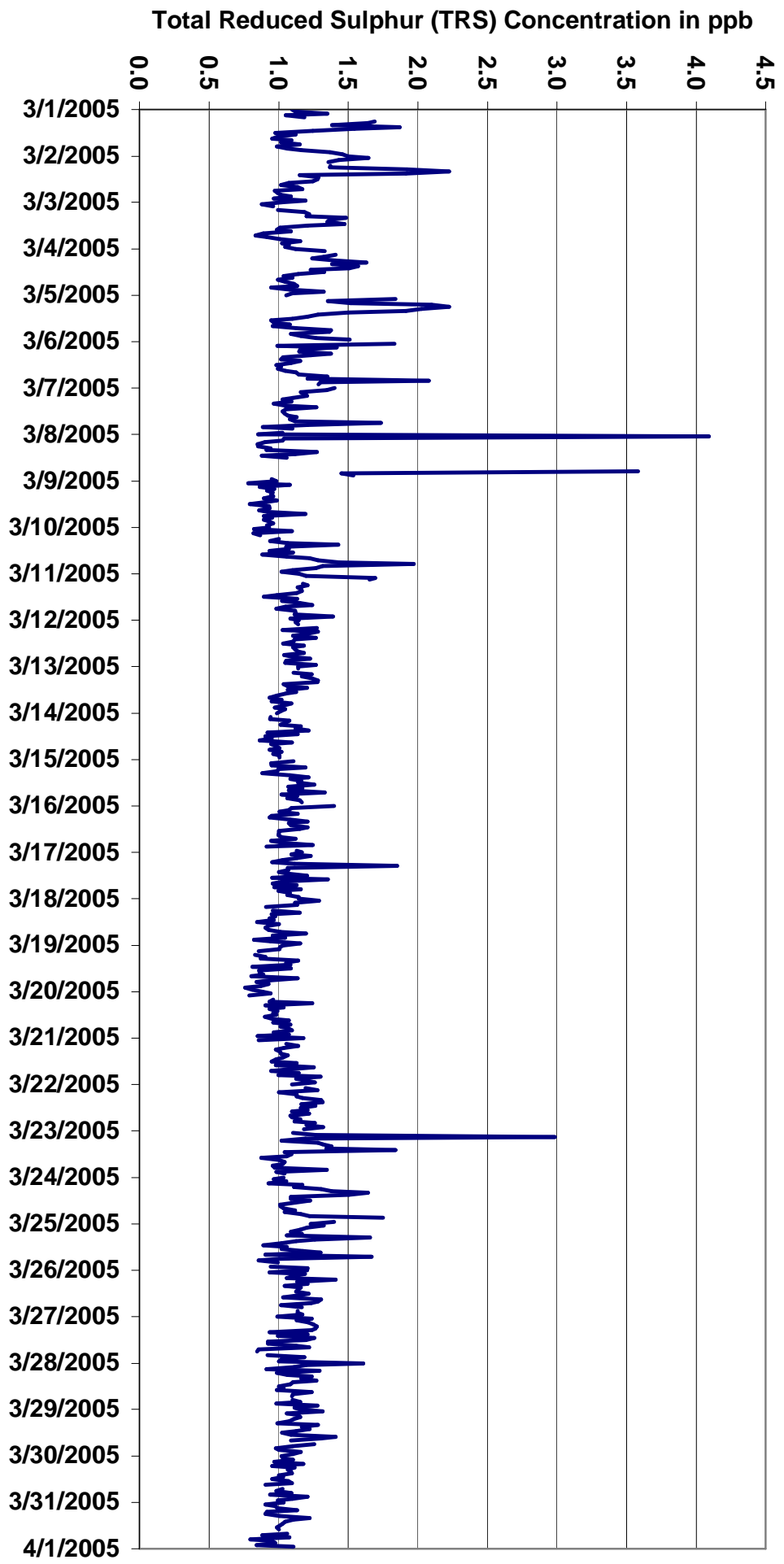


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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

Station: Evergreen Park

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	84.0 $\mu\text{g}/\text{m}^3$ 8-Mar 19:00 20:00
Maximum 24-hr Average:	11.4 $\mu\text{g}/\text{m}^3$ 8-Mar

Guideline Limit Canada Wide Standard 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$
 (considered as an absolute value)

AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%
Percentile	99	95	75
	50	25	5
	1	Average Geomean	
	17.5	10.7	4.7
	2.2	0.9	0.0
	0.0	3.6 $\mu\text{g}/\text{m}^3$ 2.9 $\mu\text{g}/\text{m}^3$	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Mar-05	8	5	3	4	4	6	7	8	10	14	13	10	9	9	12	15	8	5	4	5	9	7	9	13	8.3	14.9
2-Mar-05	14	19	14	10	12	11	12	11	12	16	5	7	5	3	1	0	0	0	1	1	0	2	2	1	6.6	18.6
3-Mar-05	2	2	2	2	1	4	7	4	8	3	4	3	2	1	0	4	1	1	2	1	2	1	1	4	2.5	7.7
4-Mar-05	4	5	7	8	8	5	4	7	15	16	3	7	6	2	6	2	1	1	2	2	4	5	4	2	5.3	16.0
5-Mar-05	5	4	6	4	5	10	11	10	11	7	4	2	1	1	0	0	2	9	3	4	4	10	13	13	5.7	13.4
6-Mar-05	11	4	1	3	0	1	2	1	1	0	2	0	0	0	0	0	0	0	3	3	1	2	2	2	1.7	11.3
7-Mar-05	1	1	1	0	0	2	1	1	3	6	3	8	1	0	3	12	12	7	3	0	0	0	0	0	2.7	12.0
8-Mar-05	0	2	6	5	4	4	2	4	4	6	9	7	13	7	2	1	0	6	72	84	27	7	2	0	11.4	84.0
9-Mar-05	0	0	0	0	0	0	0	3	1	0	0	1	1	1	1	1	3	2	2	1	1	1	2	1	0.9	3.4
10-Mar-05	1	3	1	2	2	1	1	1	2	3	1	1	4	1	9	10	12	20	30	15	9	9	6	5	6.2	30.0
11-Mar-05	1	5	6	7	3	1	1	0	0	0	1	1	1	1	0	3	5	0	2	1	1	2	1	1	1.8	6.8
12-Mar-05	2	4	1	0	3	1	1	2	2	0	1	0	1	0	0	1	2	3	2	2	6	11	3	2	2.0	10.7
13-Mar-05	0	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	2	4	5	3	4	2	1.3	5.0
14-Mar-05	1	3	1	1	2	1	2	4	5	3	1	0	0	0	0	0	0	0	0	0	1	1	0	3	1.3	4.7
15-Mar-05	3	0	0	0	0	0	2	2	0	0	3	2	3	1	2	0	0	1	1	1	0	1	1	0	1.0	3.2
16-Mar-05	1	1	0	0	1	1	1	1	1	1	1	2	1	3	2	1	2	3	3	3	4	4	4	7	2.0	6.5
17-Mar-05	10	6	4	3	2	1	3	6	12	4	4	7	8	8	6	3	4	4	4	5	5	4	5	8	5.1	11.6
18-Mar-05	8	8	7	7	7	4	4	4	4	0	1	2	2	2	3	3	2	2	2	3	3	2	2	2	3.5	8.0
19-Mar-05	1	2	2	2	1	2	2	1	2	1	1	0	0	1	1	1	2	3	3	2	3	2	1	1	1.6	3.4
20-Mar-05	2	0	2	3	4	4	3	3	3	4	3	4	3	3	3	3	4	4	5	6	6	6	6	7	3.8	6.9
21-Mar-05	7	7	7	7	6	6	6	5	6	5	4	4	4	5	6	5	5	4	5	3	3	2	2	2	4.9	7.2
22-Mar-05	2	1	2	1	2	2	2	2	1	1	1	1	1	1	1	1	2	3	3	2	2	3	1	2	1.6	3.4
23-Mar-05	2	2	3	3	3	5	2	6	9	5	8	0	0	0	2	1	1	1	1	2	1	0	2	2	2.5	8.6
24-Mar-05	1	5	3	3	5	4	5	11	20	6	8	6	4	1	3	7	8	10	8	12	11	15	10	8	7.3	20.4
25-Mar-05	6	8	8	9	10	9	10	14	18	2	5	4	4	3	7	3	4	5	8	7	6	6	4	3	6.8	18.4
26-Mar-05	4	3	2	1	4	4	3	3	0	2	0	2	4	5	4	6	4	4	3	3	4	5	6	6	3.4	5.9
27-Mar-05	5	4	4	6	5	3	2	10	0	D	0	0	0	0	0	0	0	D	0	1	1	1	2	0	2.0	10.3
28-Mar-05	5	10	2	1	1	8	3	9	8	5	0	1	3	7	4	2	0	6	D	3	0	3	D	1	3.8	9.9
29-Mar-05	1	1	1	1	4	1	2	8	D	0	0	1	0	1	2	2	2	2	5	9	1	4	2	1	2.3	8.6
30-Mar-05	2	1	0	1	1	2	2	1	2	2	0	0	1	3	4	1	5	4	4	3	5	3	3	2	2.1	5.2
31-Mar-05	1	4	2	1	1	1	1	0	D	3	0	1	1	2	5	1	0	0	0	0	0	0	0	0	1.0	5.2
Hourly Avg	3.7	3.9	3.2	3.2	3.3	3.4	3.3	4.6	5.5	4.0	2.7	2.7	2.7	2.3	2.9	2.9	3.0	3.7	6.1	6.0	4.0	3.9	3.3	3.3		
Hourly Max	14.5	18.6	13.6	10.1	11.7	11.0	12.0	13.8	20.4	16.1	13.1	9.6	12.7	9.3	12.1	14.9	12.2	19.5	72.4	84.0	26.8	15.1	13.4	13.0		

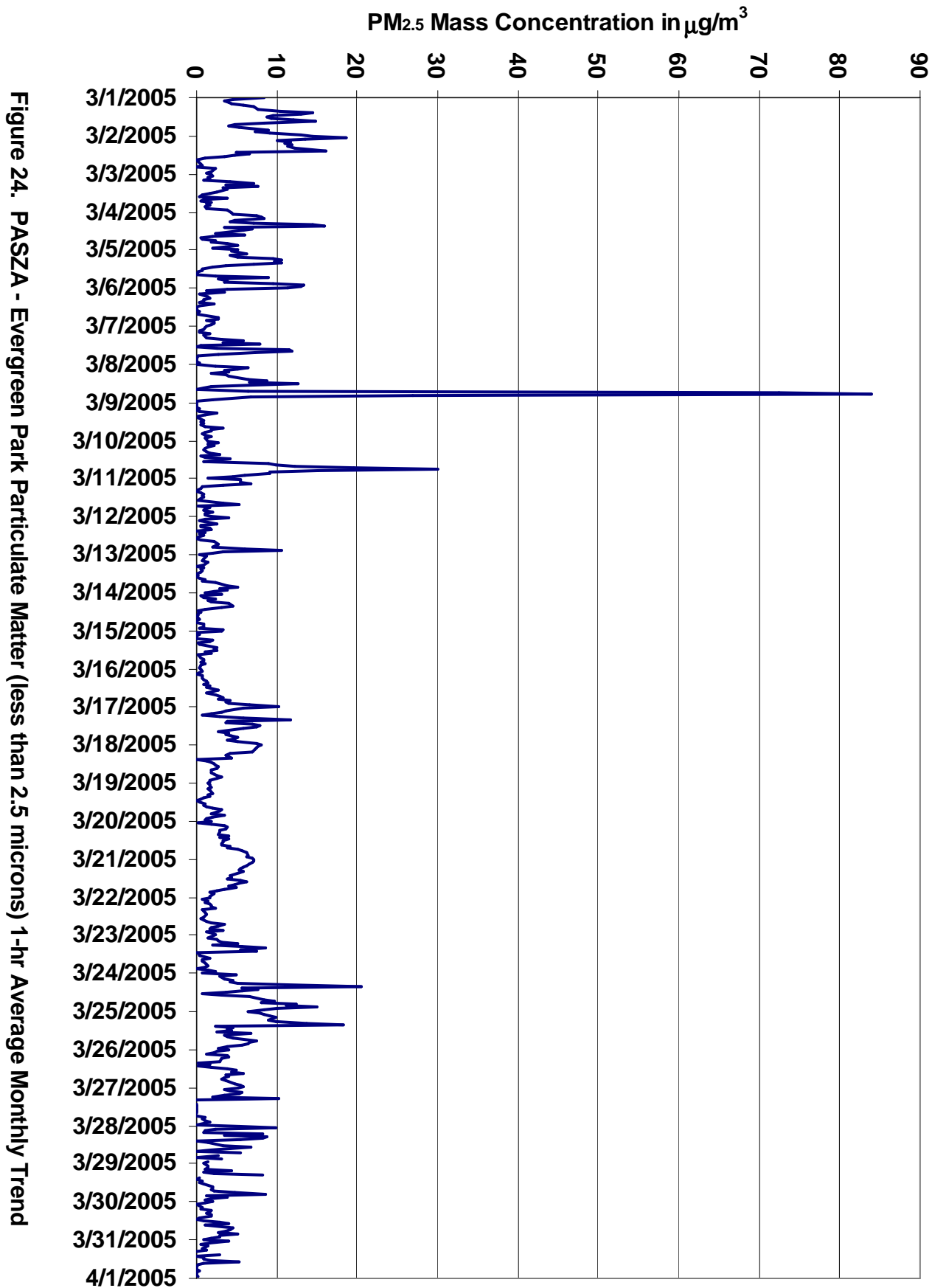


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park

HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	106.4	µg/m ³	8-Mar	19:00 20:00
Maximum 24-hr Value:	21.4	µg/m ³	8-Mar	

AIC Time:	0 hrs	Operational Time:	738 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	34.2	19.3	9.2	5.7	3.4	1.5	0.2	7.6 µg/m ³	6.8 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

Day	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Mar-05	15	7	7	8	7	8	9	10	14	18	25	13	11	14	15	19	14	8	7	11	12	10	15	15	12.1	25.5			
2-Mar-05	22	27	16	16	15	14	15	13	15	19	16	10	9	7	4	2	2	3	3	2	5	4	3	10.1	26.9				
3-Mar-05	4	5	4	6	3	9	12	9	25	10	12	5	5	4	3	10	3	3	3	4	4	4	3	7	6.5	24.7			
4-Mar-05	6	8	10	11	11	8	7	17	17	20	12	10	10	6	13	5	6	4	9	6	10	8	6	5	9.4	20.0			
5-Mar-05	9	12	12	7	8	14	15	12	17	13	10	5	3	3	2	1	10	21	6	7	10	24	19	16	10.7	24.4			
6-Mar-05	16	9	6	13	2	4	4	2	3	2	4	4	1	1	1	3	2	3	6	7	4	10	8	8	5.2	15.9			
7-Mar-05	5	5	3	2	4	7	3	5	6	10	6	20	2	3	9	20	15	15	9	4	0	0	0	2	6.4	19.8			
8-Mar-05	2	12	21	8	9	9	6	9	7	18	19	14	21	16	7	4	2	47	95	106	63	10	10	0	21.4	106.4			
9-Mar-05	0	0	0	1	3	1	2	5	4	1	2	4	3	5	4	3	8	6	5	4	3	3	4	3	3.1	8.1			
10-Mar-05	4	6	6	6	6	4	4	4	8	8	3	7	11	7	19	20	24	33	43	37	13	19	16	11	13.3	42.8			
11-Mar-05	7	12	11	14	7	3	3	1	0	2	3	4	4	4	4	10	20	3	6	4	5	4	4	2	5.7	20.0			
12-Mar-05	8	12	3	2	8	2	3	8	8	1	4	3	4	6	3	2	3	7	6	5	6	16	28	6	5	6.5	27.9		
13-Mar-05	2	4	5	3	4	3	3	0	5	3	5	5	0	3	3	5	7	2	9	12	15	10	15	5	5.3	14.7			
14-Mar-05	3	7	3	3	4	3	4	7	7	6	4	2	4	2	2	1	4	3	1	1	4	3	4	9	3.8	9.3			
15-Mar-05	10	0	4	0	1	1	4	5	2	2	6	4	5	3	5	3	2	2	2	2	2	4	2	1	3.0	10.4			
16-Mar-05	2	2	2	1	3	2	2	2	3	3	3	4	4	5	4	4	6	5	5	4	9	5	6	8	3.9	9.4			
17-Mar-05	13	10	5	5	3	3	6	10	16	12	6	48	10	12	11	5	6	6	6	7	7	7	8	10	9.7	48.4			
18-Mar-05	12	12	10	10	11	7	5	8	10	2	3	4	5	6	6	8	9	7	4	6	6	5	8	3	6.9	11.6			
19-Mar-05	4	3	3	4	3	3	5	3	4	3	3	2	3	4	4	3	3	5	5	3	7	4	3	4	3.6	7.4			
20-Mar-05	4	2	4	6	6	6	5	4	5	7	4	7	5	6	5	5	7	6	8	7	9	8	7	8	5.8	8.6			
21-Mar-05	9	9	8	9	9	7	7	7	8	7	6	8	6	8	8	8	8	7	6	5	4	3	3	3	6.8	8.9			
22-Mar-05	3	2	2	3	3	4	3	10	3	2	3	3	2	2	3	2	4	5	5	4	3	10	2	4	3.7	10.4			
23-Mar-05	4	3	4	13	6	13	4	9	14	18	12	2	2	4	4	3	3	2	3	3	4	1	5	5	5.8	18.5			
24-Mar-05	4	13	5	5	8	6	11	19	26	15	17	9	7	7	6	15	11	13	13	16	13	22	14	11	11.9	25.7			
25-Mar-05	8	10	10	11	12	13	13	18	25	10	9	7	6	6	18	8	7	7	24	23	14	8	8	6	11.6	24.6			
26-Mar-05	6	8	5	3	6	7	5	8	4	4	3	5	16	13	8	9	6	6	6	5	6	7	8	8	6.8	15.9			
27-Mar-05	7	7	7	9	9	7	5	21	10	D	1	1	1	2	1	1	4	D	3	4	3	6	4	2	5.2	21.5			
28-Mar-05	35	29	7	4	4	24	25	23	20	11	10	16	25	32	9	11	18	19	D	5	3	7	D	6	15.6	35.1			
29-Mar-05	4	6	5	3	8	6	5	17	D	3	4	5	5	5	6	6	8	4	8	16	5	6	4	4	6.2	16.8			
30-Mar-05	3	3	2	2	3	3	3	3	3	4	4	4	6	11	9	6	13	10	6	6	8	6	5	8	5.5	13.5			
31-Mar-05	4	9	4	3	4	2	2	4	D	10	5	7	8	6	16	4	4	3	1	3	1	1	3	2	4.6	16.3			
Hourly Avg	7.5	8.2	6.2	6.2	6.1	6.5	6.4	8.9	10.0	8.1	7.3	7.8	6.7	6.8	6.7	6.6	7.8	8.7	10.5	10.7	8.5	8.1	6.8	6.0					
Hourly Max	35.1	28.8	20.9	15.7	14.7	24.2	24.5	23.3	25.7	20.0	25.5	48.4	25.1	31.9	19.1	20.1	23.7	47.5	95.0	106.4	62.7	27.9	19.0	15.8					

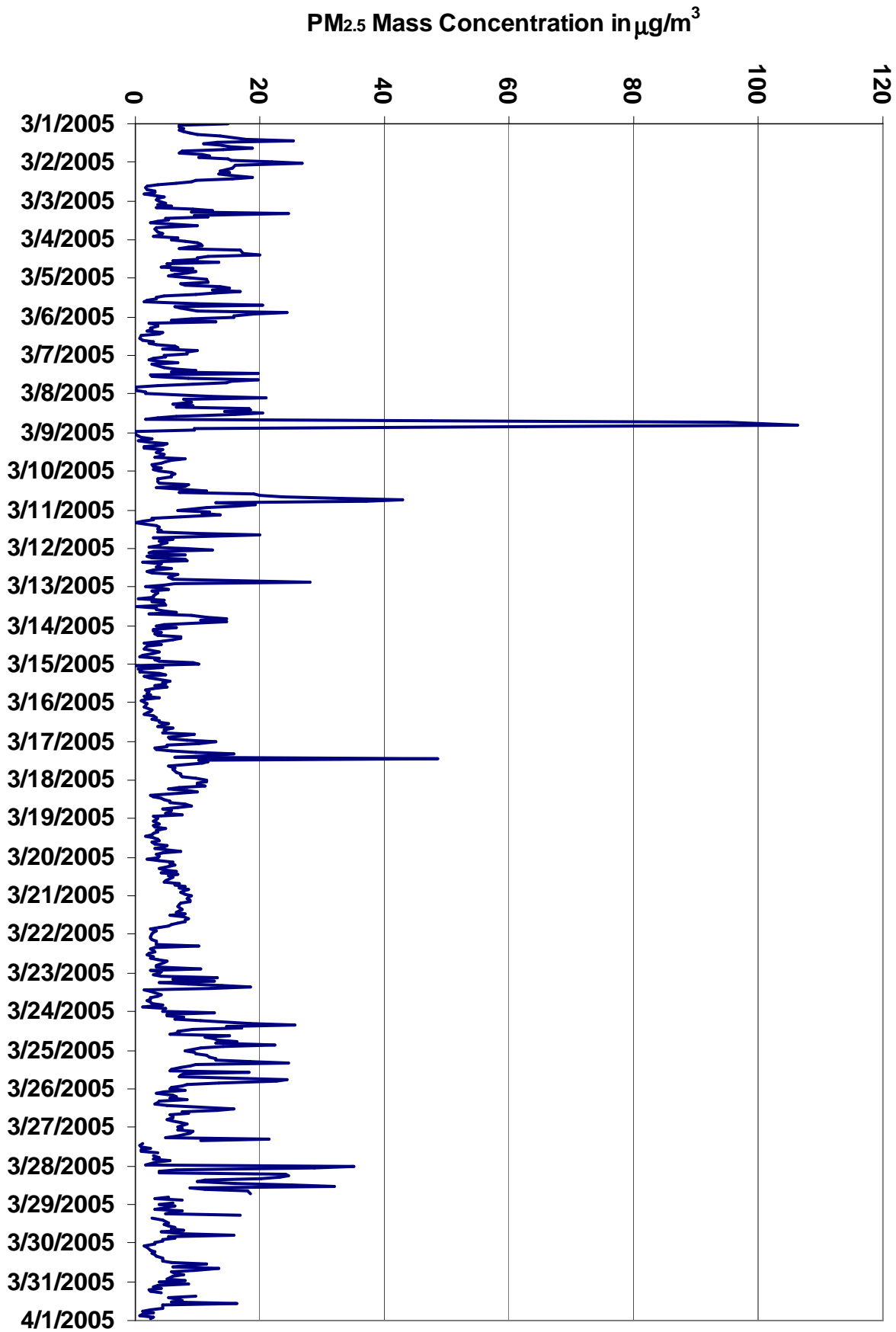
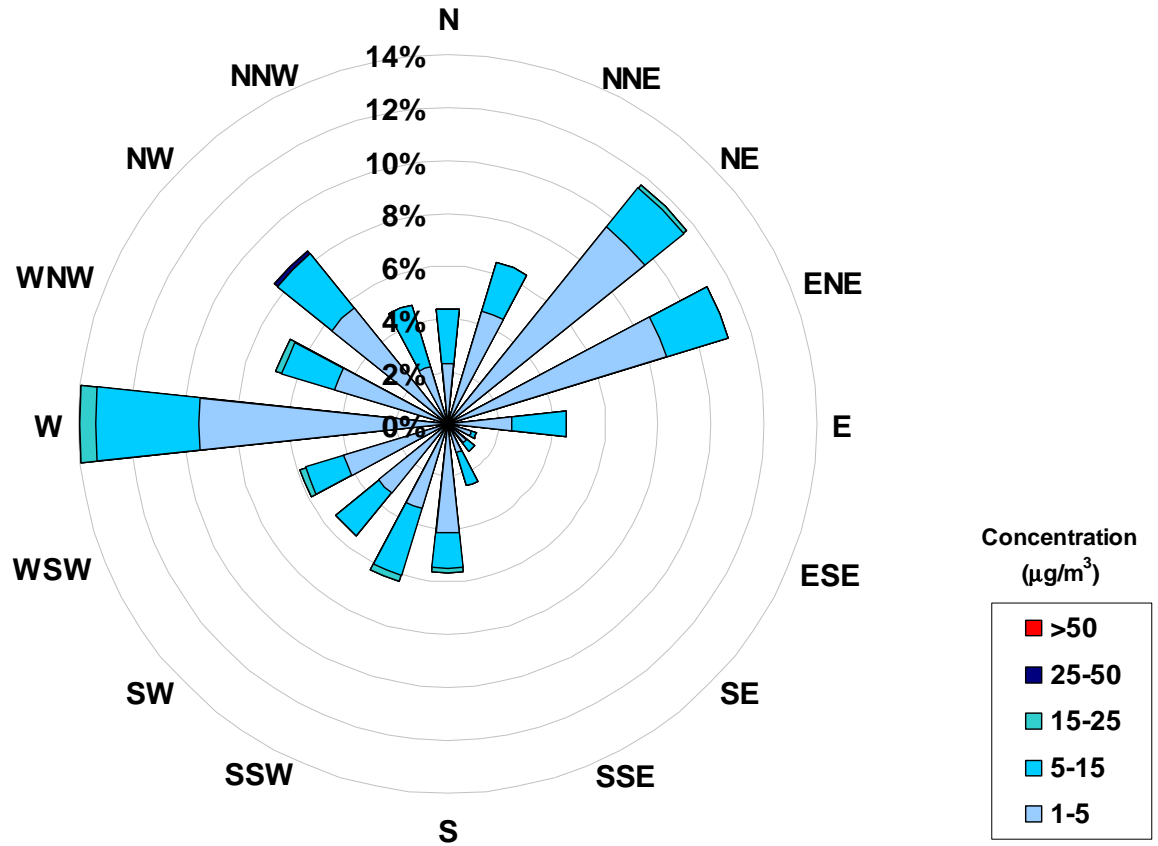


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly

Concentration Rose for the 1-hr PM_{2.5} Average Concentration Occurrences at the Evergreen Park Site for March 2005



Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
0	< 1	200	
1	to 5	360	
5	to 15	166	
15	to 25	8	
25	to 50	2	
	> 50	2	
Total Non-Zero Values			738

Calms	
Range	
µg/m ³	
1-5	0.0%
5-15	0.0%
15-25	0.0%
25-50	0.0%
>50	0.0%

PASZA - Evergreen Park Meteorological Parameters Monthly Summary

Station: Evergreen Park

HOURLY AVERAGE TABLE

Ambient Temperature (AT - °C)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	11.6 °C 3-Mar 14:00 15:00
Maximum 24-hr Average:	8.1 °C 9-Mar

AIC Time:	0 hrs	Operational Time:	742 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	10.9	9.4	5.5	-0.3	-5.8	-12.5	-18.0	-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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Hour End	24-hour Average	Daily Maximum
1-Mar-05	0:00	-5	-6	-6	-7	-8	-8	-9	-9	-7	-4	0	3	5	6	7	8	10	9	4	0	-2	-3	-4	-4	1:00	-1.2	10.1	
2-Mar-05	1:00	-5	-5	-5	-5	-6	-6	-6	-5	-4	-2	1	4	9	10	10	10	9	8	8	8	8	8	7	6	2:00	2.4	10.4	
3-Mar-05	2:00	6	5	3	0	-1	-2	-1	-1	-1	1	4	7	9	11	12	11	11	10	6	3	0	-1	-2	-2	3:00	3.6	11.6	
4-Mar-05	3:00	-3	-4	-4	-4	-4	-4	-4	-4	-3	-1	3	4	7	9	10	10	11	10	8	6	3	1	0	-1	4:00	2.1	11.2	
5-Mar-05	4:00	0	0	1	0	-1	-1	-2	-2	-1	4	7	8	9	9	9	9	9	6	4	4	3	3	3	2	5:00	3.4	9.0	
6-Mar-05	5:00	1	4	5	4	4	3	2	2	2	2	2	4	6	7	7	8	8	7	5	3	4	3	1	0	6:00	3.8	7.6	
7-Mar-05	6:00	0	0	-1	-1	0	0	0	0	0	0	1	3	6	8	9	8	7	6	5	5	6	6	5	5	7:00	3.3	8.6	
8-Mar-05	7:00	4	3	2	-1	-3	-3	-3	-3	-2	1	2	3	4	6	8	9	N	N	7	4	2	3	7	8	8:00	2.7	9.4	
9-Mar-05	8:00	9	9	8	8	8	7	7	7	6	7	8	9	10	10	11	11	11	10	8	7	7	6	5	4	9:00	8.1	11.1	
10-Mar-05	9:00	0	-2	-2	-3	-3	-3	-4	-4	-2	3	6	9	9	10	10	10	10	8	7	8	7	6	5	4	10:00	3.7	10.3	
11-Mar-05	10:00	2	1	0	2	7	8	8	8	9	9	9	10	10	10	11	10	8	9	8	6	5	4	4	4	11:00	6.9	11.0	
12-Mar-05	11:00	4	3	3	3	2	2	3	2	2	4	5	7	7	8	9	9	9	8	8	6	5	5	4	3	12:00	5.0	8.9	
13-Mar-05	12:00	3	3	3	2	3	3	2	1	2	4	5	6	7	8	9	9	9	9	7	5	4	3	3	3	13:00	4.7	9.4	
14-Mar-05	13:00	3	3	2	0	-1	0	-1	-1	1	2	3	5	5	5	6	6	6	5	4	3	2	2	2	1	14:00	2.6	6.0	
15-Mar-05	14:00	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-3	-2	-3	-3	-4	-5	-5	-5	-6	-6	-6	15:00	-2.6	-0.1	
16-Mar-05	15:00	-7	-7	-7	-8	-9	-9	-9	-9	-9	-8	-7	-6	-5	-4	-4	-3	-4	-4	-5	-5	-5	-6	-7	-7	16:00	-6.4	-3.5	
17-Mar-05	16:00	-7	-7	-7	-8	-9	-11	-13	-13	-11	-7	-5	-3	-3	-2	-1	-1	-1	-2	-3	-6	-8	-10	-11	-12	17:00	-6.7	-0.5	
18-Mar-05	17:00	-12	-12	-13	-14	-13	-11	-10	-11	-8	-8	-8	-8	-7	-7	-7	-6	-7	-8	-8	-9	-10	-10	-11	-11	18:00	-9.5	-6.3	
19-Mar-05	18:00	-12	-12	-12	-12	-12	-13	-13	-13	-13	-12	-12	-11	-10	-9	-8	-8	-8	-7	-7	-7	-7	-8	-8	-8	19:00	-10.0	-7.2	
20-Mar-05	19:00	-8	-8	-8	-8	-9	-9	-9	-8	-8	-7	-6	-6	-6	-6	-6	-5	-4	-4	-5	-5	-5	-5	-5	-5	20:00	-6.5	-4.0	
21-Mar-05	20:00	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-2	-2	-2	-2	-2	-3	-3	-3	-4	-4	-4	-5	-6	-7	21:00	-4.3	-1.8	
22-Mar-05	21:00	-7	-8	-8	-9	-10	-10	-10	-11	-11	-11	-10	-9	-9	-8	-7	-7	-7	-8	-9	-9	-10	-10	-11	-12	22:00	-9.2	-7.0	
23-Mar-05	22:00	-13	-13	-14	-15	-16	-15	-16	-16	-14	-11	-9	-8	-8	-6	-6	-5	-5	-5	-6	-9	-11	-13	-15	-17	23:00	-11.0	-4.6	
24-Mar-05	23:00	-17	-18	-19	-20	-20	-20	-20	-19	-14	-11	-11	-9	-7	-4	-3	-2	-1	-2	-3	-6	-9	-10	-11	-12	24:00	-11.2	-1.3	
25-Mar-05	0:00	-13	-14	-16	-17	-17	-18	-18	-17	-10	-4	0	2	4	6	6	7	7	7	7	0	-3	-4	-5	-6	1:00	-4.8	7.3	
26-Mar-05	1:00	-7	-7	-8	-8	-9	-8	-7	-5	-3	0	2	4	6	5	5	7	7	6	5	2	0	0	1	1	2:00	-0.5	7.2	
27-Mar-05	2:00	0	-1	-3	-3	-4	-4	-4	-3	3	7	7	8	8	9	8	9	9	9	8	5	0	-2	-3	-3	3:00	2.4	8.8	
28-Mar-05	3:00	-4	-5	-5	-6	-6	-6	-7	-5	-3	-1	1	3	3	4	5	6	8	8	7	5	3	2	1	-1	4:00	0.4	8.1	
29-Mar-05	4:00	-3	-4	-4	-5	-4	-3	-4	-2	1	3	5	6	7	7	7	8	8	8	7	5	4	3	2	2	5:00	2.3	7.8	
30-Mar-05	5:00	2	2	2	2	1	1	1	1	1	2	3	4	6	6	6	7	7	7	6	5	3	1	-1	0	6:00	3.1	7.1	
31-Mar-05	6:00	0	-4	-5	-5	-5	-5	-5	-3	3	6	8	10	10	11	11	11	11	11	10	9	8	7	6	6	7:00	4.4	11.0	
Hourly Avg		-3.1	-3.5	-4.0	-4.6	-4.9	-4.9	-5.1	-4.7	-3.0	-1.1	0.3	1.7	2.8	3.8	4.2	4.5	4.3	3.8	2.7	1.1	-0.1	-1.0	-1.6	-2.1				
Hourly Max		8.7	8.8	8.4	8.0	7.8	8.4	8.0	8.5	9.3	9.3	9.3	9.6	10.4	11.0	11.6	11.1	11.2	10.5	9.9	9.3	8.0	7.5	6.8	8.3				

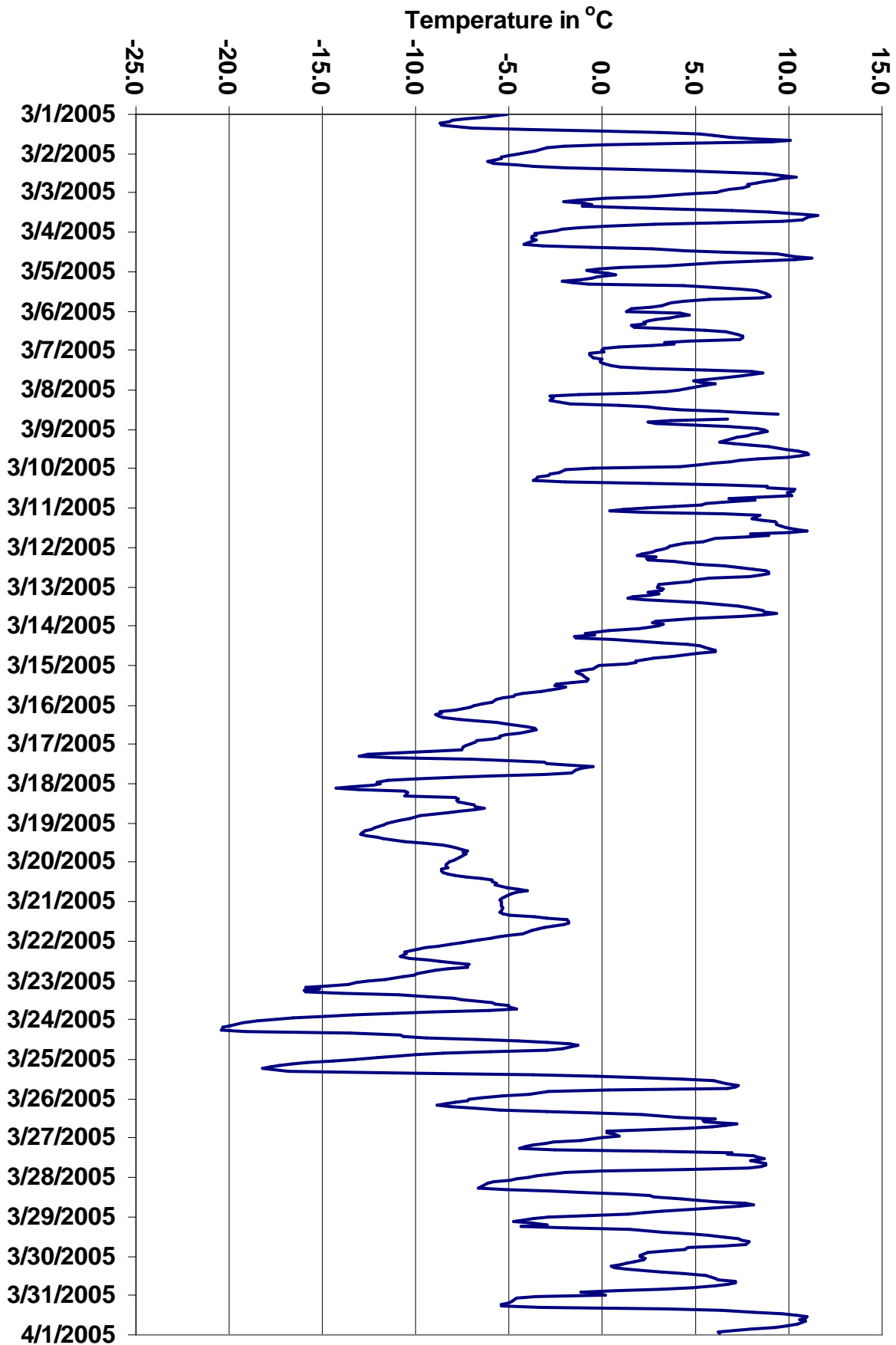


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

Station: Evergreen Park

HOURLY AVERAGE TABLE

Wind Speed (WSv - Km/hr)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Average:	65.9	km/hr	11-Mar	9:00 10:00
Maximum 24-hr Average:	37.7	km/hr	11-Mar	

Calm Time:	13 hrs	2% calms	Operational Time:	715 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	97.8%					
Percentile	99	95	75	50	25	5	1	AverageS	AverageV
	53.2	37.4	22.6	13.1	5.4	1.9	1.1	15.4 km/hr	4.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start Hour End	0:00 1:00	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-Mar-05	4	4	2	calm	1	4	1	1	2	2	3	2	3	4	6	7	4	6	6	calm	2	1	1	calm	1.9	6.8	
2-Mar-05	1	2	2	calm	2	2	1	1	2	3	3	3	2	7	11	16	16	15	12	14	13	15	14	16	6.9	16.4	
3-Mar-05	14	10	6	4	2	2	5	5	6	6	3	6	6	5	5	7	8	8	7	6	4	3	4	3	1.6	14.0	
4-Mar-05	2	calm	3	3	4	4	3	2	calm	3	5	6	2	5	9	12	18	14	9	8	4	calm	3	1	5.2	17.6	
5-Mar-05	5	3	2	calm	2	1	calm	1	4	6	4	7	5	5	3	6	9	3	3	2	1	1	3	1	2.5	8.5	
6-Mar-05	2	11	12	10	13	13	10	14	16	11	4	4	9	12	12	13	10	7	5	7	7	4	5	3	8.5	16.1	
7-Mar-05	2	1	4	3	2	4	4	2	3	6	10	15	21	29	26	23	19	13	7	13	18	19	17	18	9.1	29.4	
8-Mar-05	15	13	3	2	2	3	4	3	3	4	7	2	4	5	7	6	N	N	N	N	N	N	N	N	N	N	15.0
9-Mar-05	N	N	N	N	N	N	N	N	53	51	48	46	46	47	45	49	52	41	37	32	28	21	21	11	N	53.4	
10-Mar-05	3	4	7	9	10	6	12	5	7	11	10	11	5	2	7	4	8	2	5	10	3	6	3	14	6.3	14.1	
11-Mar-05	14	3	4	14	20	42	39	37	63	66	58	56	57	61	55	49	45	41	36	33	34	30	27	28	37.7	65.9	
12-Mar-05	27	32	25	20	24	23	23	21	23	31	34	29	28	34	30	30	29	24	18	10	17	18	14	13	23.1	34.4	
13-Mar-05	18	18	22	19	29	34	24	20	21	24	27	32	31	27	25	24	18	13	2	6	5	8	15	17	16.6	34.3	
14-Mar-05	11	12	18	8	10	13	7	7	13	9	15	13	14	10	15	12	13	15	12	13	10	9	10	18	5.8	17.8	
15-Mar-05	18	18	13	11	12	14	17	20	20	24	24	25	26	27	28	31	28	32	28	27	30	29	23	20	22.4	32.1	
16-Mar-05	19	18	20	21	19	23	23	22	23	23	25	22	22	21	19	20	22	19	14	13	12	16	21	19	18.3	24.5	
17-Mar-05	17	14	12	12	17	9	9	7	7	6	6	9	13	12	15	20	22	19	15	8	5	5	3	6	5.8	21.5	
18-Mar-05	4	5	5	3	11	17	14	11	18	26	25	27	27	26	24	21	26	28	26	26	28	26	33	28	19.9	32.9	
19-Mar-05	27	27	22	20	18	20	15	18	20	20	26	26	24	24	27	29	26	28	26	24	23	21	20	20	23.1	28.7	
20-Mar-05	21	20	24	25	26	28	28	27	28	29	29	27	27	24	26	24	18	19	18	17	17	18	19	18	23.5	29.0	
21-Mar-05	18	16	18	16	21	18	16	10	10	12	18	13	12	13	15	21	16	19	18	20	24	26	20	22	11.7	26.1	
22-Mar-05	21	28	28	26	22	24	22	22	26	29	29	29	28	27	25	28	26	25	26	17	15	14	14	13	23.6	28.9	
23-Mar-05	11	10	11	7	7	6	6	5	7	5	10	11	11	14	16	16	24	19	17	13	9	8	2	3	7.3	23.9	
24-Mar-05	3	4	7	4	4	4	5	4	5	11	21	18	14	12	11	10	11	11	9	5	3	4	6	5	5.2	21.1	
25-Mar-05	5	5	4	3	3	3	3	calm	calm	7	21	21	12	12	18	14	8	7	4	3	1	1	2	3	3.0	21.2	
26-Mar-05	2	6	4	7	6	8	8	7	9	8	13	12	7	12	14	13	15	16	11	6	2	calm	1	2	8.1	16.4	
27-Mar-05	calm	5	5	5	8	12	6	8	20	28	27	29	32	32	25	30	28	24	16	7	3	2	4	1	13.2	32.3	
28-Mar-05	1	1	1	2	2	4	1	1	4	5	4	6	13	15	12	15	13	15	14	15	8	14	14	4	7.5	15.5	
29-Mar-05	7	4	6	7	9	7	4	10	23	23	29	34	32	30	30	33	22	15	12	18	16	18	16	21	17.5	33.7	
30-Mar-05	25	35	42	42	39	38	42	41	48	45	45	40	35	41	39	34	40	42	35	34	14	11	14	17	34.2	48.3	
31-Mar-05	17	2	8	4	3	4	4	5	12	16	22	24	23	22	28	23	22	15	13	18	18	17	16	17	12.6	27.7	
1-hr Vector	1.8	2.8	3.6	2.2	2.9	3.2	2.5	2.8	6.6	7.6	7.9	9.0	9.7	10.1	9.8	10.0	8.2	7.3	4.5	2.2	1.8	2.6	2.5	1.2			
Hourly Max	27.5	35.3	42.3	42.0	38.8	42.3	42.1	41.3	62.6	65.9	58.2	56.3	56.7	60.7	54.7	49.4	52.4	41.6	37.3	34.3	33.6	29.6	32.9	28.4			

Station: Evergreen Park

HOURLY AVERAGE TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	728 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	97.8%				
Percentile	99	95	75	50	25	5	1	Average
	355.5	326.9	272.1	212.8	68.2	26.1	9.6	303 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average
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-Mar-05	280	263	300	10	356	213	162	15	47	66	242	309	320	347	339	344	15	49	62	174	3	280	259	78	343	
2-Mar-05	32	266	344	4	205	47	330	312	297	204	219	242	280	298	269	263	262	252	243	255	243	234	231	224	255	
3-Mar-05	229	232	235	264	197	271	324	244	221	185	211	210	215	235	226	19	44	63	65	70	86	80	31	339	231	
4-Mar-05	247	169	209	207	209	216	177	204	257	301	283	268	252	278	263	278	256	252	222	200	190	261	181	30	243	
5-Mar-05	203	214	49	155	279	279	142	222	200	242	336	265	267	269	214	190	196	82	68	157	209	329	268	291	229	
6-Mar-05	261	275	284	284	301	309	286	264	266	268	177	229	268	278	285	286	303	281	240	259	268	302	193	107	275	
7-Mar-05	109	102	55	49	27	82	108	40	17	219	247	238	254	262	277	281	280	307	281	256	258	257	253	254	266	
8-Mar-05	257	246	301	61	92	186	174	192	123	182	218	356	78	158	159	153	N	N	N	N	N	N	N	N	N	
9-Mar-05	N	N	N	N	N	N	N	N	257	259	264	270	269	269	267	267	262	269	262	256	256	258	255	271	N	
10-Mar-05	60	173	190	197	190	178	181	159	191	206	201	208	198	153	358	187	184	41	321	266	119	208	227	185	193	
11-Mar-05	187	307	273	265	244	237	238	259	256	256	256	266	267	263	268	276	270	276	275	272	269	259	264	264	262	
12-Mar-05	290	317	299	278	263	265	295	283	272	272	273	274	277	267	307	316	318	324	315	295	270	347	359	291	292	
13-Mar-05	314	294	285	283	320	324	319	301	270	285	305	312	312	310	320	328	338	317	286	63	78	77	65	82	316	
14-Mar-05	141	191	212	248	324	290	321	346	327	26	54	36	2	12	44	30	45	65	85	88	101	105	119	79	46	
15-Mar-05	89	90	86	87	92	86	94	96	83	72	67	61	64	61	62	57	52	51	50	51	51	51	54	57	66	
16-Mar-05	52	56	51	49	48	50	50	51	50	56	51	59	52	38	28	27	31	27	15	11	5	341	336	325	36	
17-Mar-05	324	311	313	272	262	248	239	226	270	242	270	274	353	12	29	24	40	55	59	41	54	48	287	332	339	
18-Mar-05	301	330	318	10	36	37	19	23	18	24	27	22	21	23	26	24	35	38	42	46	44	42	43	46	31	
19-Mar-05	47	46	43	46	44	33	43	45	45	52	49	47	54	45	49	46	43	45	52	55	71	69	72	76	50	
20-Mar-05	76	74	81	81	78	70	70	71	72	71	71	68	59	60	57	54	54	83	87	96	81	89	91	90	73	
21-Mar-05	89	81	84	77	74	68	56	54	49	55	41	41	357	9	358	328	342	337	331	324	323	322	316	313	13	
22-Mar-05	311	320	321	322	312	312	313	312	308	303	306	320	309	304	306	313	319	326	326	320	307	299	273	263	311	
23-Mar-05	264	266	273	280	291	296	316	320	321	296	4	17	6	46	23	39	40	50	36	47	47	32	327	357	8	
24-Mar-05	17	20	44	40	51	52	76	241	249	262	268	276	272	301	299	346	4	12	31	12	351	278	293	308	317	
25-Mar-05	290	232	200	224	194	60	177	62	185	295	268	262	338	349	334	350	26	11	77	127	88	168	85	60	311	
26-Mar-05	54	38	59	70	63	63	63	57	61	58	98	124	85	27	58	60	58	48	63	76	104	125	295	40	65	
27-Mar-05	305	198	199	191	179	187	195	202	205	251	260	267	269	272	273	269	270	272	260	284	196	141	185	121	252	
28-Mar-05	160	14	358	171	212	208	355	159	217	220	201	188	188	194	167	172	163	173	162	149	159	175	233	266	251	184
29-Mar-05	215	224	281	221	284	266	222	254	247	260	261	264	266	271	273	269	267	294	258	206	250	262	253	227	258	
30-Mar-05	231	245	251	250	252	256	255	254	255	267	273	280	283	277	267	275	270	268	264	256	260	227	209	213	260	
31-Mar-05	220	129	56	72	72	52	72	112	171	172	187	202	218	217	218	203	189	177	160	182	178	175	166	158	185	
Hourly Avg	292	303	311	299	307	310	318	299	269	275	285	290	299	300	310	316	320	340	339	303	307	305	289	305		

Station: Evergreen Park

STANDARD DEVIATION TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	728 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	97.8%			
Percentile	99	95	75	50	25	5	1
	66.7	53.5	27.3	14.1	10.1	5.6	4.2

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Mar-05	29	26	42	69	61	13	48	40	48	37	30	37	39	35	10	15	22	9	12	51	27	35	57	48	69.3
2-Mar-05	34	19	26	48	61	58	54	66	64	59	46	57	47	26	11	6	5	4	5	4	4	5	5	3	66.5
3-Mar-05	5	7	13	16	43	34	20	21	40	11	28	46	22	29	38	22	15	13	10	9	29	19	25	22	46.1
4-Mar-05	32	59	23	29	26	28	46	81	68	59	31	28	60	42	32	13	8	7	10	6	41	45	47	30	81.4
5-Mar-05	10	23	31	47	51	50	67	41	28	38	26	12	18	21	43	15	9	28	41	49	76	53	35	35	75.5
6-Mar-05	37	13	14	11	11	10	12	7	7	18	26	42	17	19	16	18	17	22	14	6	15	28	44	33	43.7
7-Mar-05	53	49	35	6	13	34	33	48	55	20	8	9	4	6	7	8	7	19	19	6	5	4	4	4	54.9
8-Mar-05	4	4	28	65	66	36	32	41	48	18	15	56	37	28	19	24	N	N	N	N	N	N	N	N	65.6
9-Mar-05	N	N	N	N	N	N	N	N	29	6	7	7	9	9	9	7	6	7	5	5	4	8	6	19	29.4
10-Mar-05	32	39	16	8	32	35	15	39	31	18	14	16	63	69	46	50	17	53	35	48	54	31	19	10	69.1
11-Mar-05	11	63	55	12	14	5	6	9	5	5	6	9	8	8	8	10	7	9	9	7	6	5	6	6	62.8
12-Mar-05	12	10	11	13	8	8	11	11	10	8	9	16	19	16	21	15	12	10	11	24	21	18	23	18	23.5
13-Mar-05	11	12	12	11	10	6	7	10	11	14	17	14	18	17	17	19	20	19	30	51	26	21	7	12	51.2
14-Mar-05	17	43	7	31	14	13	28	33	11	19	19	45	32	55	26	29	37	15	10	9	12	22	21	11	55.0
15-Mar-05	10	11	16	15	16	11	14	13	13	13	12	10	11	11	10	11	10	10	9	11	10	8	10	12	16.3
16-Mar-05	10	13	9	9	8	7	9	9	9	14	14	15	14	12	14	13	12	14	13	15	16	16	9	7	16.5
17-Mar-05	9	13	13	13	8	25	13	18	24	32	29	21	20	23	18	13	14	12	11	11	19	12	33	23	32.7
18-Mar-05	25	17	21	46	9	5	8	10	11	11	12	10	11	12	13	13	13	10	11	9	9	10	8	8	46.5
19-Mar-05	9	9	9	10	11	9	12	13	12	14	12	13	16	14	16	11	11	9	11	11	13	10	12	12	16.3
20-Mar-05	13	14	12	12	11	12	11	11	11	13	12	13	11	13	12	11	15	13	14	12	13	12	14	13	14.8
21-Mar-05	12	12	12	13	11	11	10	15	16	17	12	21	17	20	18	10	15	12	9	8	7	8	11	11	20.9
22-Mar-05	12	10	9	9	10	10	10	13	13	12	15	16	16	18	16	16	16	14	10	10	12	13	11	8	18.1
23-Mar-05	9	6	10	12	15	17	12	10	19	28	19	32	29	35	23	22	11	14	9	7	5	6	21	25	34.9
24-Mar-05	41	9	13	48	34	41	33	20	15	19	9	17	15	30	19	25	19	20	15	16	36	28	26	42	48.0
25-Mar-05	30	22	57	50	44	41	49	64	28	27	10	10	22	20	18	26	32	28	31	45	48	53	50	42	63.9
26-Mar-05	10	8	19	6	18	5	7	10	16	23	18	22	44	19	21	18	18	15	12	31	40	67	53	47	66.8
27-Mar-05	44	32	39	67	32	12	38	34	9	8	7	10	8	8	9	10	10	8	6	12	23	16	16	36	67.0
28-Mar-05	57	32	26	60	47	54	63	55	51	37	32	39	12	18	18	19	23	21	19	9	20	18	10	51	62.9
29-Mar-05	13	27	24	12	31	21	45	12	6	11	10	10	12	12	11	12	13	17	12	11	10	7	7	4	44.9
30-Mar-05	5	6	5	6	5	6	5	5	6	9	8	13	15	11	10	13	12	8	6	6	23	16	5	5	23.0
31-Mar-05	4	24	18	27	26	9	39	19	14	17	14	15	19	16	16	10	10	10	14	7	7	6	10	8	38.9
Hourly Max	57	63	57	69	66	58	67	81	68	59	46	57	63	69	46	50	37	53	41	51	76	67	57	51	

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0					
Number of 24-hr Exceedances:	0					
Maximum 1-hr Average:	6.2	ppb	24-Mar	15:00	16:00	
Maximum 24-hr Average:	1.4	ppb	24-Mar			

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

AIC Time:	23 hrs	Operational Time:	508 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	4.0	2.0	0.5	0.2	0.0	0.0	0.0	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00		
1-Mar-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	0.0
2-Mar-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	0.0
3-Mar-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	0.0
4-Mar-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	0.0
5-Mar-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	0.0
6-Mar-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	0.0
7-Mar-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	0.0
8-Mar-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	0.0
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	0	0	0	0	N	N	0.4	
10-Mar-05	0	0	0	0	0	A	0	0	0	0	0	N	2	1	1	0	1	2	2	2	5	1	0	0	0	0	0	0.7	4.6
11-Mar-05	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2	1	N	0.3	1.5	
12-Mar-05	0	0	0	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.3	0.7
13-Mar-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	0.4
14-Mar-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	0.5
15-Mar-05	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	A	0.1	0.3	
16-Mar-05	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0.3	1.3	
17-Mar-05	0	0	1	0	0	0	0	0	0	1	2	2	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.8
18-Mar-05	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0.3	0.7
19-Mar-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	0.4
20-Mar-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	0	0.1	0.4
21-Mar-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	0.5
22-Mar-05	0	A	0	1	1	1	0	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.0
23-Mar-05	A	0	0	1	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0.4	1.0	
24-Mar-05	0	0	0	0	0	0	0	0	1	2	2	3	3	4	1	6	2	2	1	0	1	3	A	1	N	1.4	6.2		
25-Mar-05	0	0	1	1	1	0	0	0	0	1	1	1	1	2	3	2	1	1	1	0	0	A	0	0	0	0	0.7	3.0	
26-Mar-05	0	0	0	0	0	1	2	2	1	1	2	3	2	2	1	1	0	0	0	0	A	0	0	0	0	0	0.8	2.6	
27-Mar-05	2	1	1	0	0	0	2	1	0	0	0	0	0	1	1	0	2	1	0	A	1	0	1	0	0	0	0.7	2.4	
28-Mar-05	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.6	
29-Mar-05	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	A	0	0	0	0	4	4	0.6	4.1		
30-Mar-05	3	0	0	6	0	0	4	5	1	0	0	0	1	0	0	0	A	0	0	0	3	2	3	1	N	1.3	5.9		
31-Mar-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
Hourly Avg	0.4	0.3	0.2	0.5	0.2	0.3	0.5	0.6	0.4	0.5	0.5	0.6	0.6	0.7	0.4	0.6	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.6	0.4	N	0.4	0.4	
Hourly Max	3.0	1.3	0.7	5.9	0.7	1.0	3.7	4.5	1.2	2.0	2.2	2.6	2.7	4.3	3.0	6.2	2.1	2.3	2.0	4.6	2.8	3.2	4.1	3.8	N	6.2	6.2		

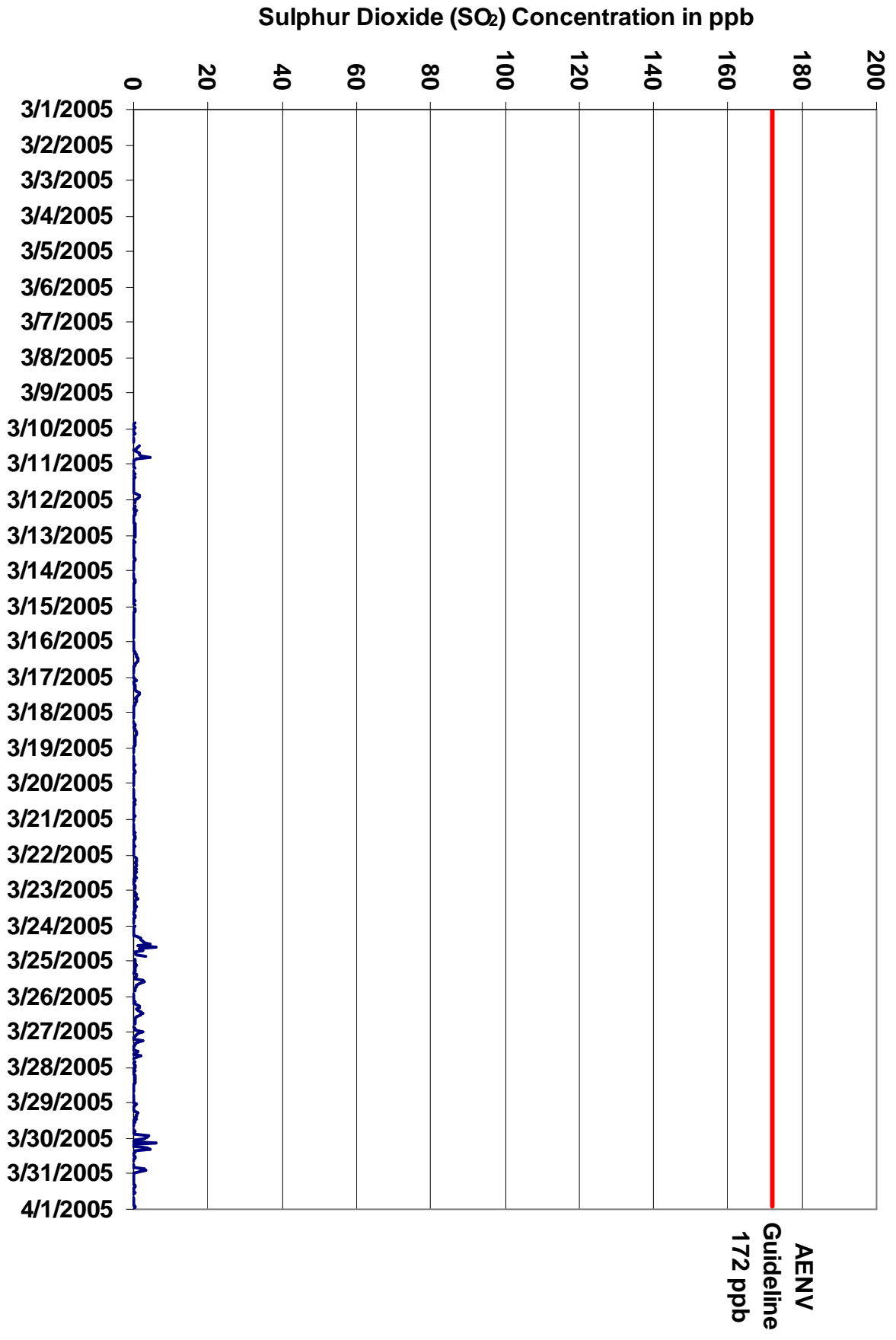


Figure 27 PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Maximum 1-hr Value:	19.5	ppb	30-Mar	3:00 4:00
Maximum 24-hr Value:	4.1	ppb	30-Mar	

AIC Time:	23 hrs	Operational Time:	508 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	9.9	4.5	1.0	0.6	0.4	0.2	0.0	1.2 ppb

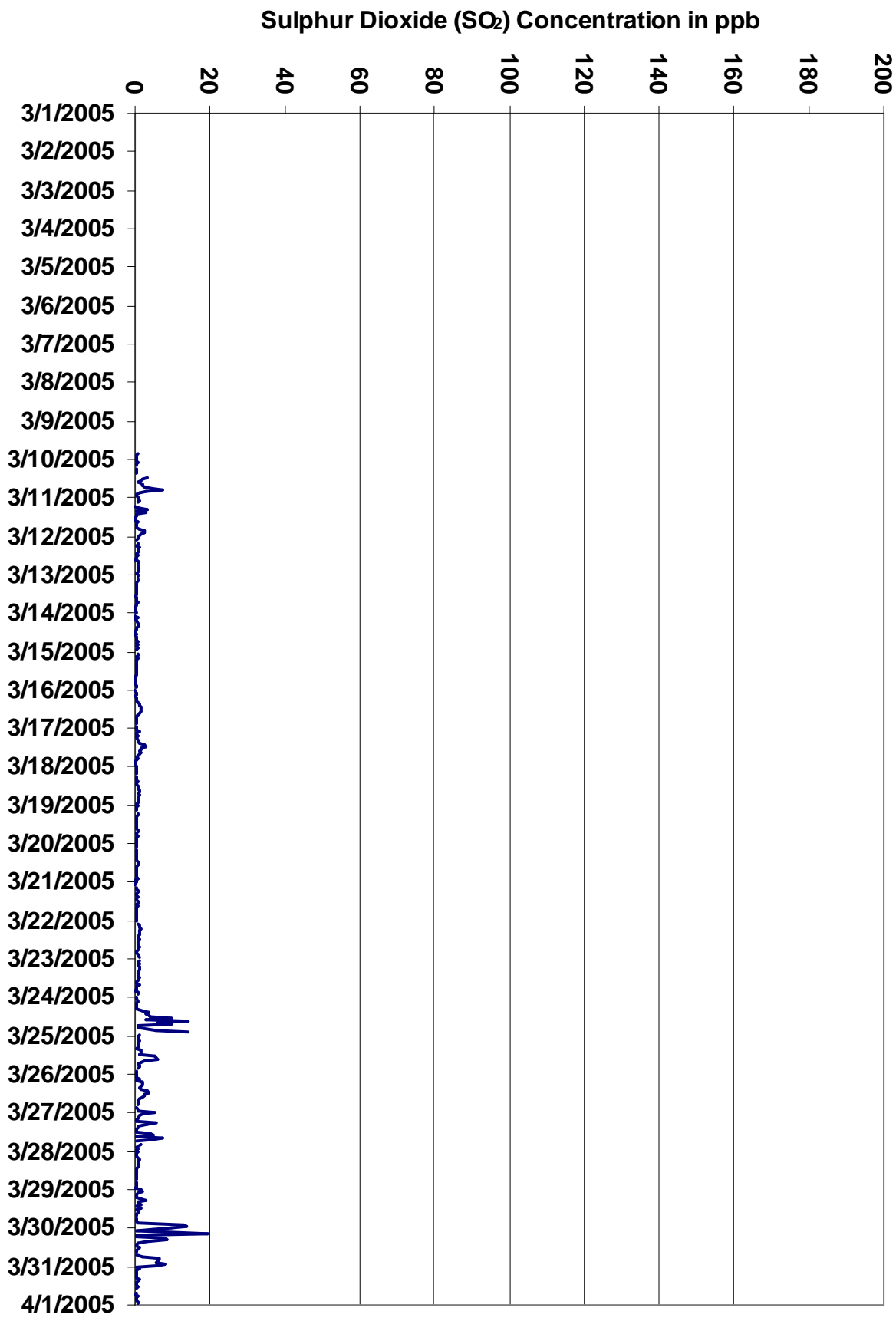
Status Flag Characters

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

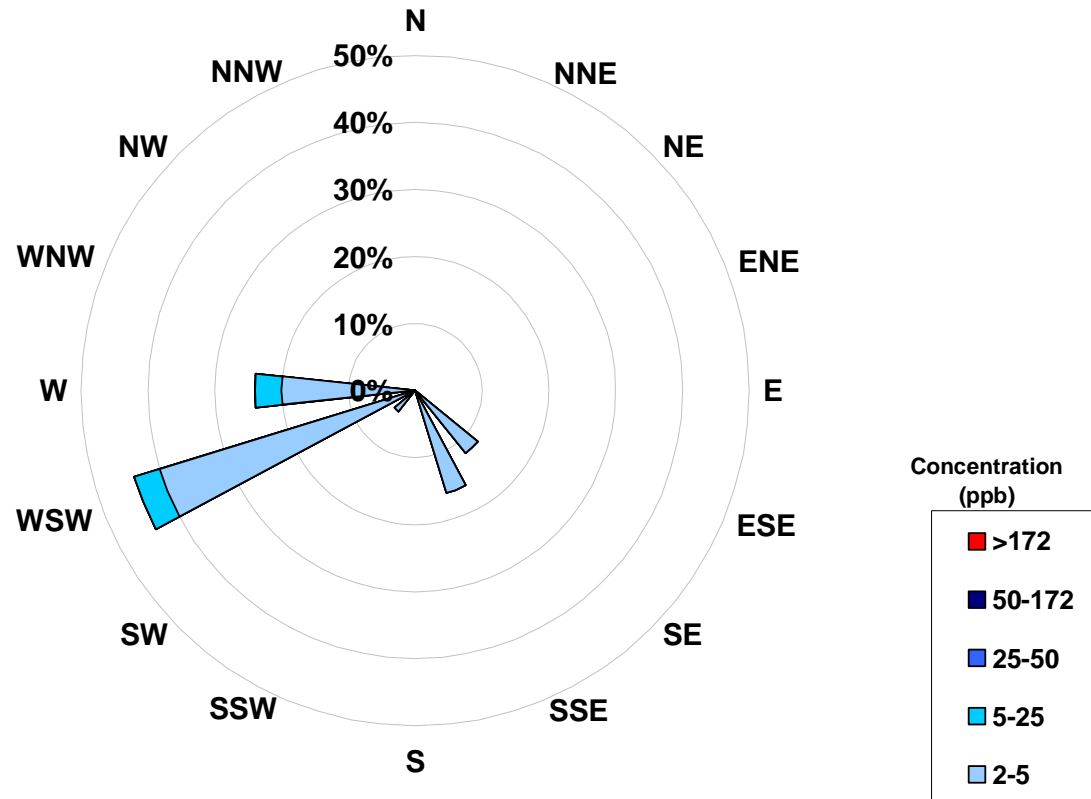
Day Mountain Standard Time

Hour Start	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-Mar-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-Mar-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-Mar-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-Mar-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-Mar-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
6-Mar-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
7-Mar-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
8-Mar-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
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	1	1	1	1	N	0.7
10-Mar-05	1	0	1	1	0	A	0	1	1	1	N	3	2	2	1	2	2	2	4	7	3	1	0	0	0	1.6	7.5
11-Mar-05	1	1	1	1	A	0	1	3	0	3	0	0	0	0	0	1	0	0	0	0	1	3	3	2	0	1.0	3.1
12-Mar-05	1	1	1	A	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	0	0.7	1.1
13-Mar-05	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.4	0.7
14-Mar-05	0	A	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0.4	0.9
15-Mar-05	A	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0.4	0.7
16-Mar-05	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	1	1	1	0	0	0	0	0	A	0	0.7	1.8
17-Mar-05	0	1	1	1	0	1	1	1	1	1	3	3	2	2	1	2	1	1	1	1	1	0	0	0	0	0.9	2.7
18-Mar-05	0	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.2
19-Mar-05	1	1	0	0	A	1	1	0	1	0	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0.5	0.7
20-Mar-05	1	1	0	A	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	1	1	0	1	0	0	0.5	0.8
21-Mar-05	0	0	A	0	0	1	1	0	0	1	1	0	1	1	0	1	0	1	1	0	1	0	0	0	0	0.5	1.0
22-Mar-05	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1.0	1.6
23-Mar-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1	A	0.8	1.4	
24-Mar-05	1	1	1	1	1	0	0	1	2	4	3	4	4	10	3	14	6	10	1	1	6	14	A	1	3.7	14.4	
25-Mar-05	1	1	1	1	1	1	1	1	0	2	2	1	5	6	2	2	1	1	1	1	1	A	1	0	1.4	6.2	
26-Mar-05	1	0	0	1	0	2	2	2	1	2	3	4	3	2	2	1	1	1	1	1	A	1	1	1	1	1.4	3.6
27-Mar-05	5	2	1	1	0	0	6	3	1	1	0	0	0	4	5	1	7	5	0	A	1	1	1	1	2.1	7.4	
28-Mar-05	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	A	0	0	0	0	0	0.5	1.2	
29-Mar-05	2	2	1	0	0	0	2	3	1	2	1	2	1	1	1	0	0	A	1	1	0	1	13	14	2.0	13.7	
30-Mar-05	10	5	1	20	0	0	8	9	3	1	1	1	1	1	0	0	A	0	2	6	6	6	8	6	4.1	19.5	
31-Mar-05	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	A	0	0	1	0	0	0	1	1	0.6	1.4	
Hourly Avg	1.3	1.0	0.6	1.6	0.5	0.7	1.3	1.4	0.9	1.1	1.0	1.2	1.0	1.6	1.2	1.4	1.3	1.2	0.8	1.2	1.2	1.5	1.6	1.4			
Hourly Max	9.9	4.7	1.3	19.5	1.3	2.1	8.1	8.6	2.8	3.8	3.2	3.6	3.9	9.7	6.2	14.0	7.4	9.9	4.3	7.5	6.5	14.4	12.9	13.7			

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



Concentration Rose for the 1-hr SO₂ Average Concentration Occurrences at the Smoky Heights Site for March 2005



Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0	< 2	483	
2	to 5	23	
5	to 25	2	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		508	

Calms	
Range	
ppb	
2-5	0.0%
5-25	0.0%
25-50	0.0%
50-172	0.0%
>172	0.0%

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	1.0	ppb	28-Mar	1:00 2:00
Maximum 24-hr Average:	0.7	ppb	19-Mar	

H₂S Guideline Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

AIC Time:	23 hrs	Operational Time:	508 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	0.7	0.7	0.6	0.5	0.0	0.0	0.0	0.3 ppb

Status Flag Characters

C	Calibration	X	AIC - Zero / Span Check
S	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-Mar-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-Mar-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-Mar-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-Mar-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-Mar-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
6-Mar-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
7-Mar-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
8-Mar-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
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	0	0	0	0	N	0.0
10-Mar-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	0.1
11-Mar-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	0.0
12-Mar-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	0.0	0.0
13-Mar-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	0.0
14-Mar-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	0.0
15-Mar-05	A	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	0.0
16-Mar-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	0.0	0.0
17-Mar-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
18-Mar-05	0	0	0	0	0	A	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.7
19-Mar-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	0.7	0.8
20-Mar-05	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	0.7
21-Mar-05	0	0	A	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	0.5	0.6
22-Mar-05	0	A	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0.5	0.6
23-Mar-05	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	A	0.5	0.6	
24-Mar-05	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	A	0	0.5	0.7	
25-Mar-05	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	A	1	1	0.5	0.6	
26-Mar-05	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.5	0.7	
27-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	A	1	1	1	1	0.6	0.7	
28-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	A	1	1	0	1	1	0.6	1.0	
29-Mar-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.7	
30-Mar-05	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.6	0.7	
31-Mar-05	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	A	0	0	1	0	0	0	0	0	0	0.5	0.7
Hourly Avg	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.3			
Hourly Max	0.7	1.0	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7			

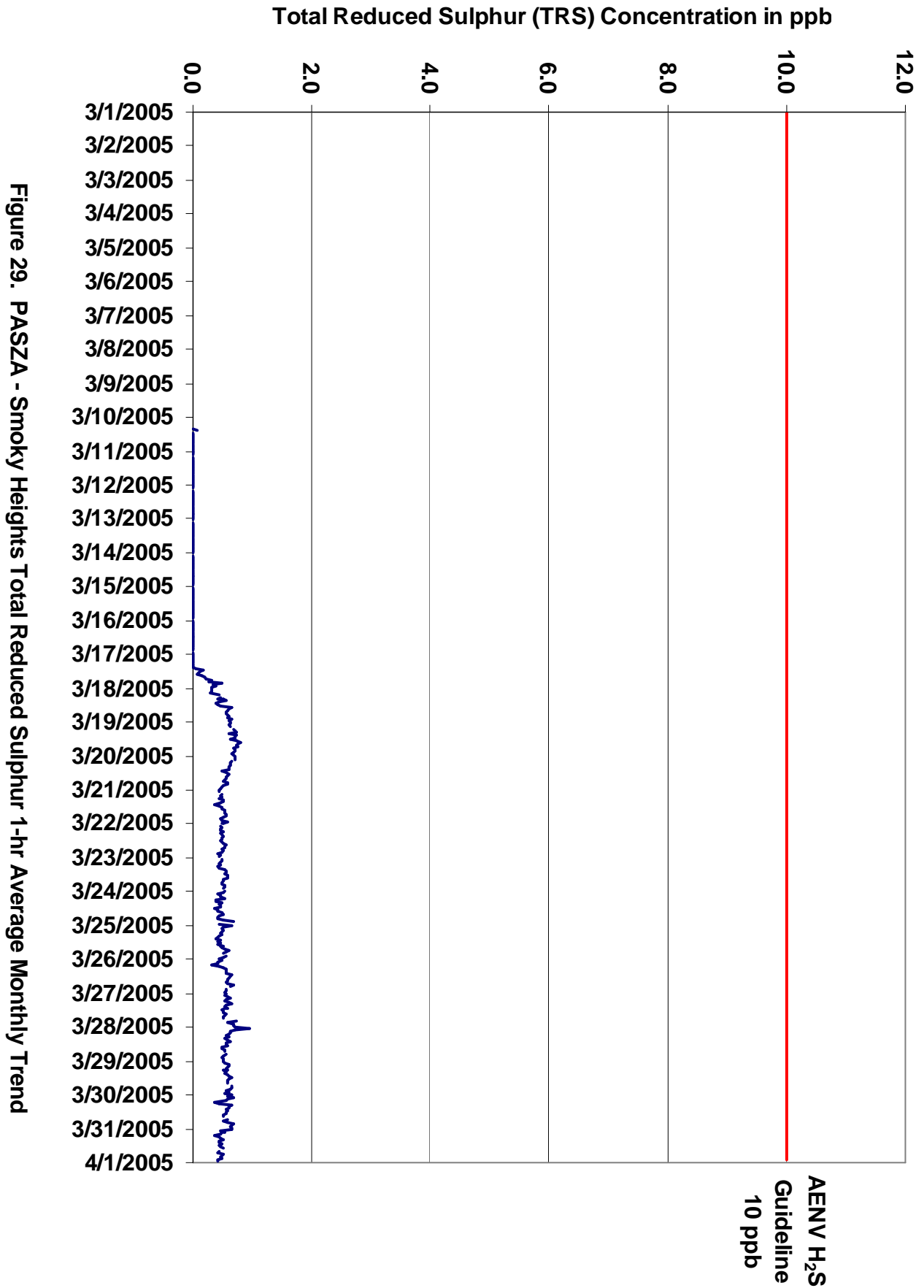


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Station: Smoky Heights

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Value:	2.0	ppb	17-Mar	20:00 21:00
Maximum 24-hr Value:	1.1	ppb	19-Mar	

AIC Time:	23 hrs	Operational Time:	508 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	1.5	1.1	0.9	0.8	0.1	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

Day	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Mar-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-Mar-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-Mar-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-Mar-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-Mar-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
6-Mar-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
7-Mar-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
8-Mar-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
9-Mar-05			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	0	0	0	0	0	0	0.0
10-Mar-05			0	0	0	0	0	A	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
11-Mar-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	
12-Mar-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	
13-Mar-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	
14-Mar-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	
15-Mar-05			A	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	1	1	0	0	0	A	0.2		
16-Mar-05			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0.1		
17-Mar-05			0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	2	1	2	1	0.6		
18-Mar-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		
19-Mar-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	1.1		
20-Mar-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		
21-Mar-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		
22-Mar-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	0.8		
23-Mar-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		
24-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	0.9		
25-Mar-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		
26-Mar-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		
27-Mar-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	0.9		
28-Mar-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		
29-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9		
30-Mar-05			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0		
31-Mar-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		
Hourly Avg			0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6		
Hourly Max			1.4	1.4	1.2	1.0	1.0	1.2	1.0	1.4	1.5	1.3	1.3	1.1	1.1	1.1	1.4	1.1	1.2	1.4	1.5	1.5	2.0	1.8	1.5	1.0			

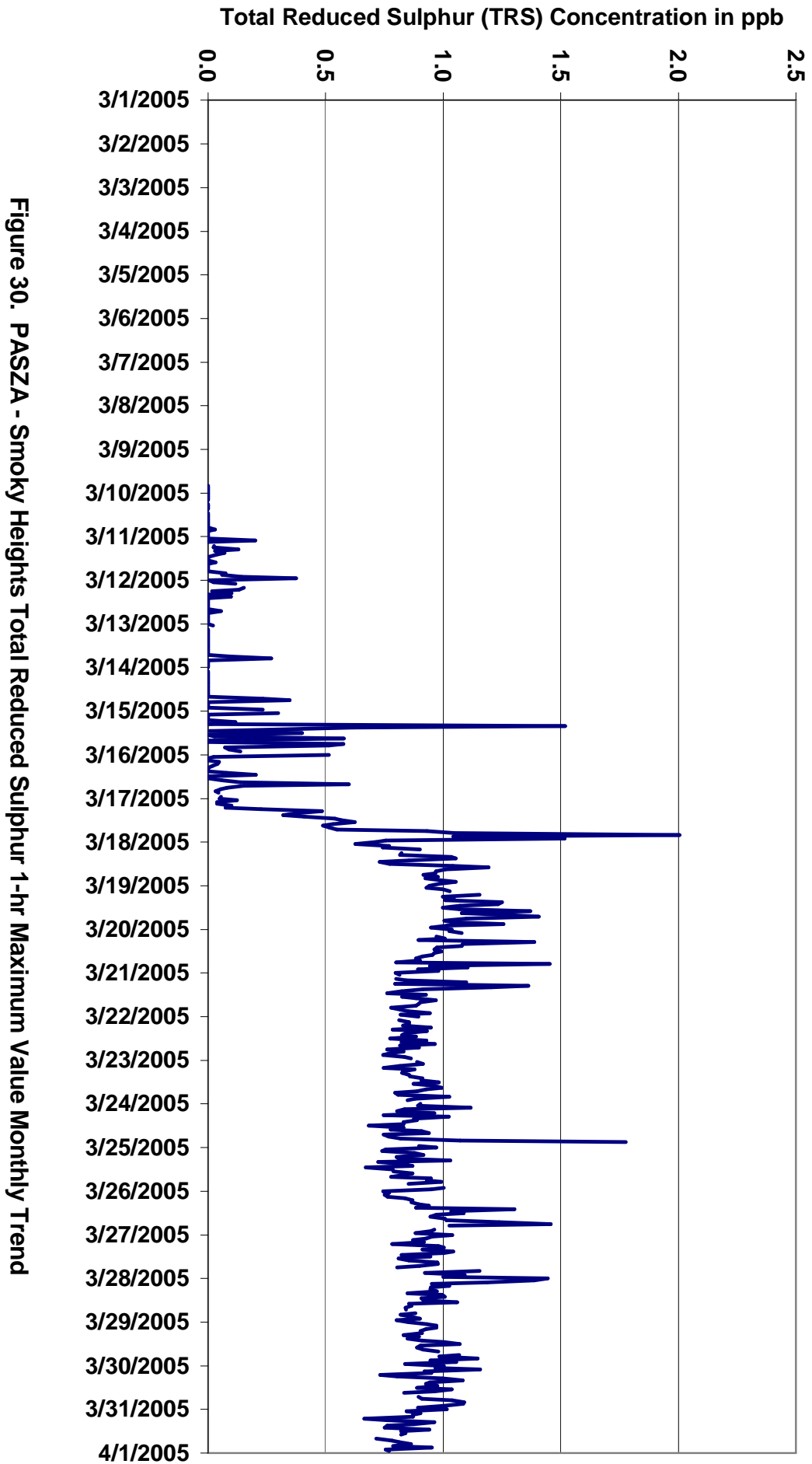


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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

Station: Smoky Heights

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	71.8	µg/m ³	21-Mar	22:00 23:00
Maximum 24-hr Average:	7.9	µg/m ³	25-Mar	

Guideline Limit	Canada Wide Standard	1-hr - µg/m ³	24-hr 30 µg/m ³
(considered as an absolute value)			

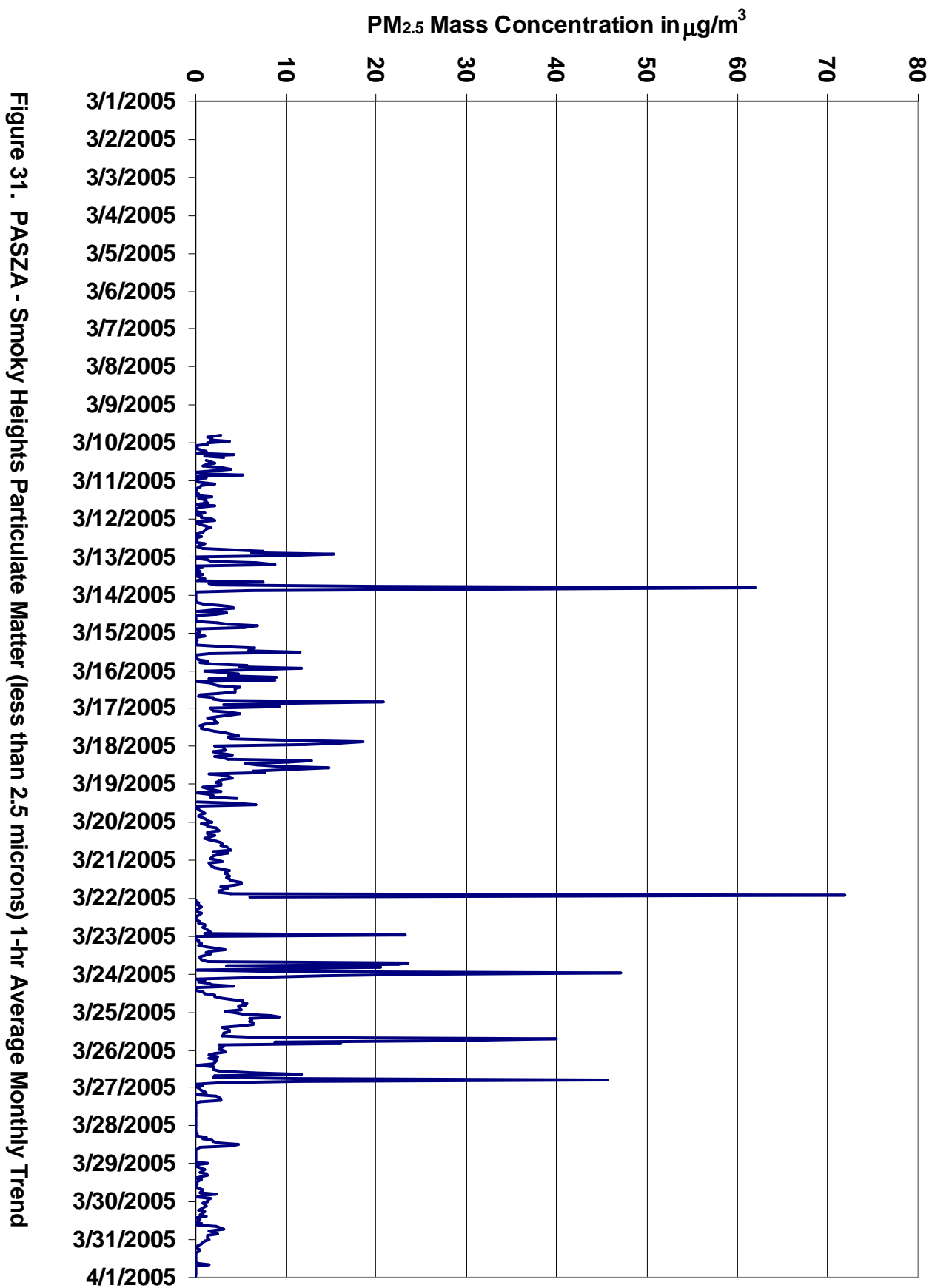
AIC Time:	0 hrs	Operational Time:	530 hrs						
Calibration Time:	1 hrs	AMD Operational Uptime:	98.6%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	26.8	10.3	3.1	1.3	0.2	0.0	0.0	2.9 µg/m ³	2.1 µg/m ³

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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Mar-05	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	N	0.0	
2-Mar-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	0.0
3-Mar-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	0.0
4-Mar-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	0.0
5-Mar-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	0.0
6-Mar-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	0.0
7-Mar-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	0.0
8-Mar-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	0.0
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	3	1	2	2	4	N	3.7	
10-Mar-05	1	1	0	0	0	1	0	4	1	3	N	1	2	2	1	1	3	4	0	0	5	0	1	0	1	0	1.4	5.2
11-Mar-05	0	0	2	1	1	0	0	0	0	0	2	0	1	1	1	0	2	0	0	0	1	0	1	1	1	0.6	2.2	
12-Mar-05	2	2	0	0	1	1	2	1	1	0	0	1	0	0	0	0	1	0	0	1	7	6	15	10	2.2	15.3		
13-Mar-05	0	0	1	2	7	9	0	1	0	1	0	0	1	0	0	1	0	7	2	2	20	62	6	0	0	5.1	62.0	
14-Mar-05	0	0	0	0	0	0	1	3	4	4	0	3	2	0	0	0	0	0	2	3	7	5	0	0	1.5	6.9		
15-Mar-05	0	0	1	0	0	0	0	0	0	0	3	7	6	11	2	0	0	0	0	1	0	2	6	5	12	2.3	11.7	
16-Mar-05	1	3	5	4	9	1	9	0	2	2	3	5	4	4	3	0	0	2	2	3	21	10	3	9	4.4	20.8		
17-Mar-05	2	2	4	5	4	2	1	2	2	2	1	1	1	1	1	2	3	4	5	4	4	10	18	16	12	4.5	18.4	
18-Mar-05	2	3	3	2	3	4	2	3	4	13	10	6	7	9	15	6	8	1	3	4	4	3	3	2	2	5.0	14.7	
19-Mar-05	3	3	1	1	3	0	1	2	2	5	D	0	5	7	0	0	1	1	1	1	1	0	1	1	1	1.6	6.7	
20-Mar-05	2	1	1	1	2	3	1	1	2	2	1	1	2	3	3	3	3	3	4	2	4	3	2	2	2	2.1	3.9	
21-Mar-05	2	3	1	2	2	2	4	3	3	4	4	3	4	4	5	5	4	3	4	3	3	4	72	6	6.2	71.8		
22-Mar-05	D	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	2	1	23	1.5	23.2	
23-Mar-05	0	0	0	0	0	1	0	1	3	2	1	2	1	0	0	1	1	24	22	3	20	0	9	47	5.9	47.0		
24-Mar-05	24	14	6	0	1	0	1	2	4	0	0	1	1	2	2	3	4	5	5	6	6	5	5	3	3	4.2	24.1	
25-Mar-05	4	5	8	9	6	6	6	6	6	5	3	4	4	3	3	3	7	40	28	9	16	3	3	3	7.9	40.0		
26-Mar-05	3	3	2	2	2	1	2	2	2	2	0	2	2	3	6	12	2	2	11	46	11	3	0	1	5.1	45.6		
27-Mar-05	0	1	1	1	0	2	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.8	
28-Mar-05	0	0	0	0	0	0	0	1	1	2	2	3	5	4	0	0	0	0	0	0	0	0	0	0	0	0.7	4.7	
29-Mar-05	1	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	2	1	0	2	1	0.7	2.3		
30-Mar-05	1	1	1	1	1	0	1	1	0	1	0	1	0	0	1	0	2	3	2	2	2	1	1	1	1.1	3.1		
31-Mar-05	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.3	1.5	
Hourly Avg		2.4	2.0	1.8	1.5	1.9	1.7	1.7	1.8	1.9	2.3	1.7	1.8	2.3	2.1	2.0	1.7	2.4	4.4	4.1	4.9	8.0	3.3	6.1	6.0			
Hourly Max		24.1	14.1	8.2	9.3	9.0	8.8	8.8	6.4	6.3	12.7	10.2	5.9	11.5	9.2	14.7	11.7	7.7	40.0	27.9	45.6	62.0	18.4	71.8	47.0			



Station: Smoky Heights

HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
Summary

Maximum 1-hr Value:	223.0	µg/m ³	13-Mar	20:00 21:00
Maximum 24-hr Value:	23.7	µg/m ³	13-Mar	

AIC Time:	0 hrs	Operational Time:	530 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	98.6%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	96.8	43.0	7.0	4.0	2.3	0.6	0.0	9.4 µg/m ³	7.3 µg/m ³

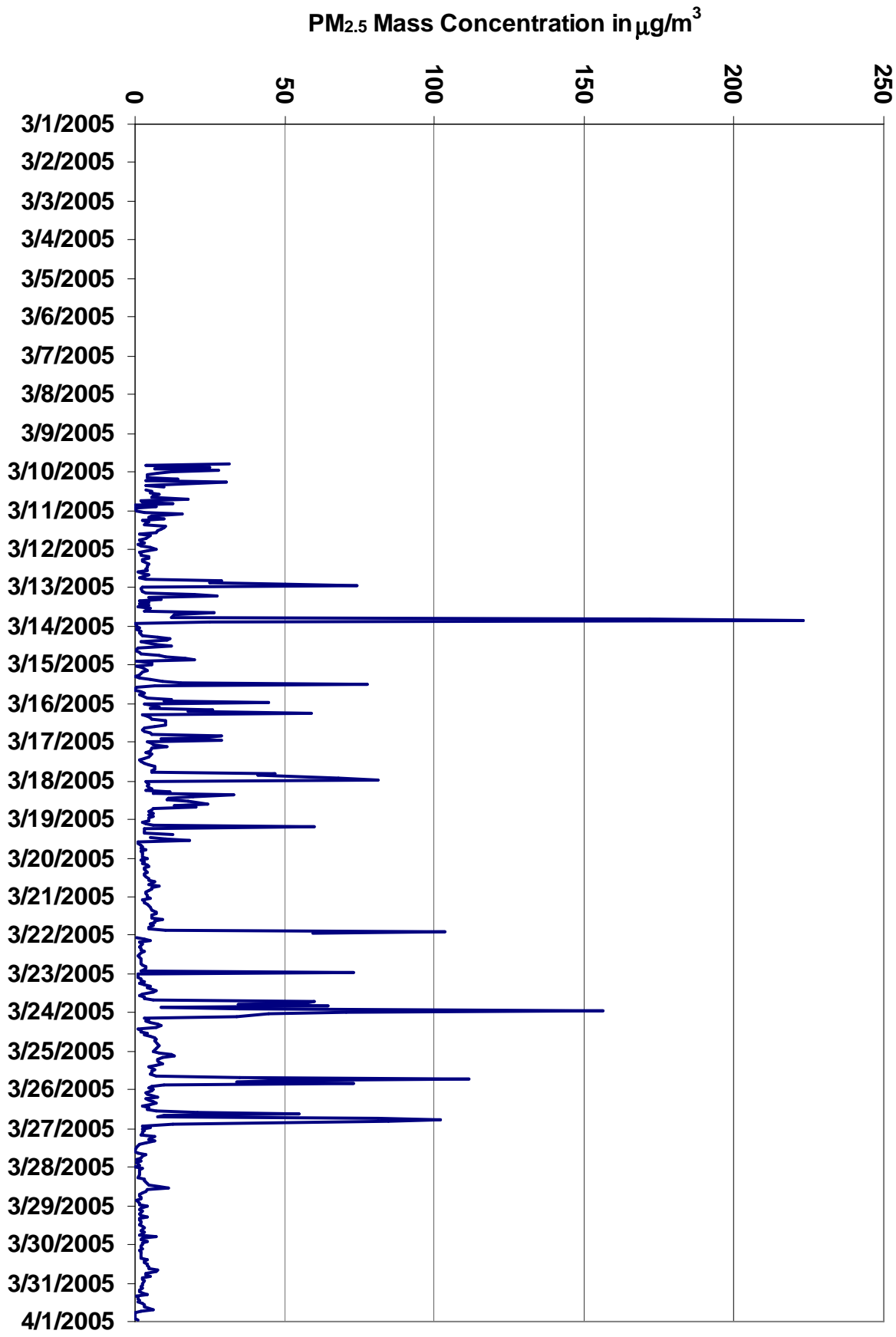
Status Flag Characters

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

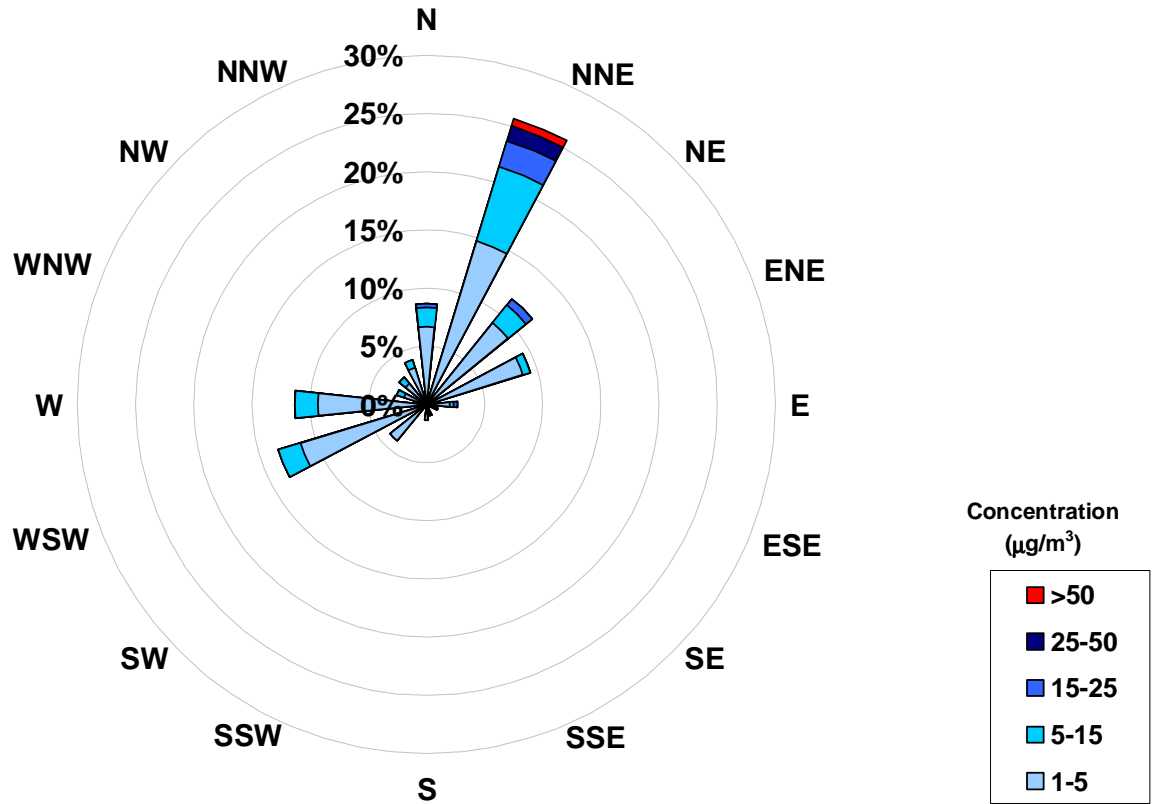
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum		
1-Mar-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-Mar-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-Mar-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-Mar-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-Mar-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	
6-Mar-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	
7-Mar-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	
8-Mar-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	
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	D	31	4	25	7	28	N	31.3
10-Mar-05	12	8	4	4	4	14	4	30	4	10	N	3	6	5	8	6	5	18	2	3	13	0	7	0	7.4	30.3		
11-Mar-05	1	3	16	5	5	10	2	5	4	3	10	10	9	8	7	2	5	4	1	2	3	1	2	5	5.1	15.9		
12-Mar-05	7	4	2	2	2	4	4	3	2	4	4	4	4	4	1	2	4	3	2	4	29	25	50	74	10.2	74.0		
13-Mar-05	3	2	3	4	20	27	5	9	2	5	2	5	1	5	4	3	26	13	12	172	223	25	0	1	23.7	223.0		
14-Mar-05	1	2	0	2	2	2	3	8	12	11	2	7	12	1	1	1	2	2	8	10	17	20	0	6	5.4	20.0		
15-Mar-05	6	0	3	4	3	2	2	0	1	5	9	15	78	7	1	0	0	2	3	2	4	12	10	45	8.8	77.8		
16-Mar-05	3	6	8	5	26	18	59	3	4	5	5	10	10	10	7	3	3	3	5	6	29	24	9	29	12.1	59.0		
17-Mar-05	4	6	6	11	6	5	3	5	5	4	3	2	2	3	5	7	7	7	6	5	47	41	68	81	14.1	81.1		
18-Mar-05	4	4	4	4	4	5	4	12	6	33	19	11	11	18	24	13	20	6	6	5	6	4	6	5	9.7	32.8		
19-Mar-05	5	4	2	4	6	60	3	3	3	13	D	5	10	18	1	1	2	2	2	4	2	3	2	3	6.9	59.9		
20-Mar-05	4	2	3	3	4	5	3	3	3	4	3	3	4	4	5	6	5	8	6	6	4	3	4	4	4.1	7.9		
21-Mar-05	4	5	3	3	3	4	5	5	6	7	7	5	6	6	9	7	7	5	6	5	5	10	103	59	11.8	103.3		
22-Mar-05	D	0	3	5	1	3	2	1	2	2	3	2	2	1	1	2	2	2	2	3	4	3	2	73	5.3	73.0		
23-Mar-05	1	1	1	2	2	3	2	3	5	4	7	6	3	2	3	3	6	60	57	35	64	9	35	156	19.6	156.0		
24-Mar-05	71	45	34	3	4	4	5	8	9	7	1	2	2	4	3	5	7	7	6	8	8	8	7	7	11.0	70.6		
25-Mar-05	6	8	12	13	9	7	8	8	9	7	4	7	5	6	5	7	35	112	47	34	73	10	5	5	18.4	111.8		
26-Mar-05	6	6	4	4	8	4	4	6	7	5	3	5	4	7	21	55	10	8	81	102	85	13	3	5	18.8	101.8		
27-Mar-05	2	3	3	2	2	6	6	5	7	4	2	1	1	0	0	1	3	2	2	1	2	1	1	2	2.4	6.8		
28-Mar-05	0	3	1	1	1	1	1	3	3	4	4	5	8	11	4	3	2	2	2	2	2	0	1	1	2.8	11.3		
29-Mar-05	4	2	1	3	2	2	2	4	2	2	2	2	2	1	2	3	2	3	2	7	3	2	4	3	2.6	7.0		
30-Mar-05	2	2	2	3	2	2	2	2	2	4	3	3	4	4	5	5	7	7	4	4	5	3	3	3	3.4	7.5		
31-Mar-05	3	3	2	3	2	2	2	4	0	1	1	1	1	3	3	3	6	2	0	0	0	0	0	1	1.7	5.9		
Hourly Avg	7.0	5.4	5.4	4.1	5.3	8.6	5.9	5.9	4.4	6.5	4.7	5.2	8.3	5.8	5.5	6.2	7.6	12.6	11.9	19.5	27.4	10.5	14.3	25.8				
Hourly Max	70.6	44.5	34.0	13.1	25.7	59.9	59.0	30.3	11.8	32.8	19.1	15.4	77.8	18.0	24.2	54.6	34.8	111.8	81.0	171.9	223.0	41.1	103.3	156.0				

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



Concentration Rose for the 1-hr PM_{2.5} Average Concentration Occurrences at the Smoky Heights Site for March 2005



Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
0	<	1	230
1	to	5	230
5	to	15	53
15	to	25	11
25	to	50	4
	>	50	2
Total Non-Zero Values			530

Calms	
Range µg/m ³	
1-5	0.0%
5-15	0.0%
15-25	0.0%
25-50	0.0%
>50	0.0%

PASZA - Smoky Heights Meteorological Parameters Monthly Summary

Station: Smoky Heights

HOURLY AVERAGE TABLE

Ambient Temperature (AT - °C)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005
 Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	9.5	°C	31-Mar	15:00	16:00
Maximum 24-hr Average:	4.7	°C	11-Mar		

AIC Time:	0 hrs		Operational Time:	533 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	Average
	7.6	6.0	1.9	-3.2	-8.1	-13.4	-15.1	-3.2 ppb

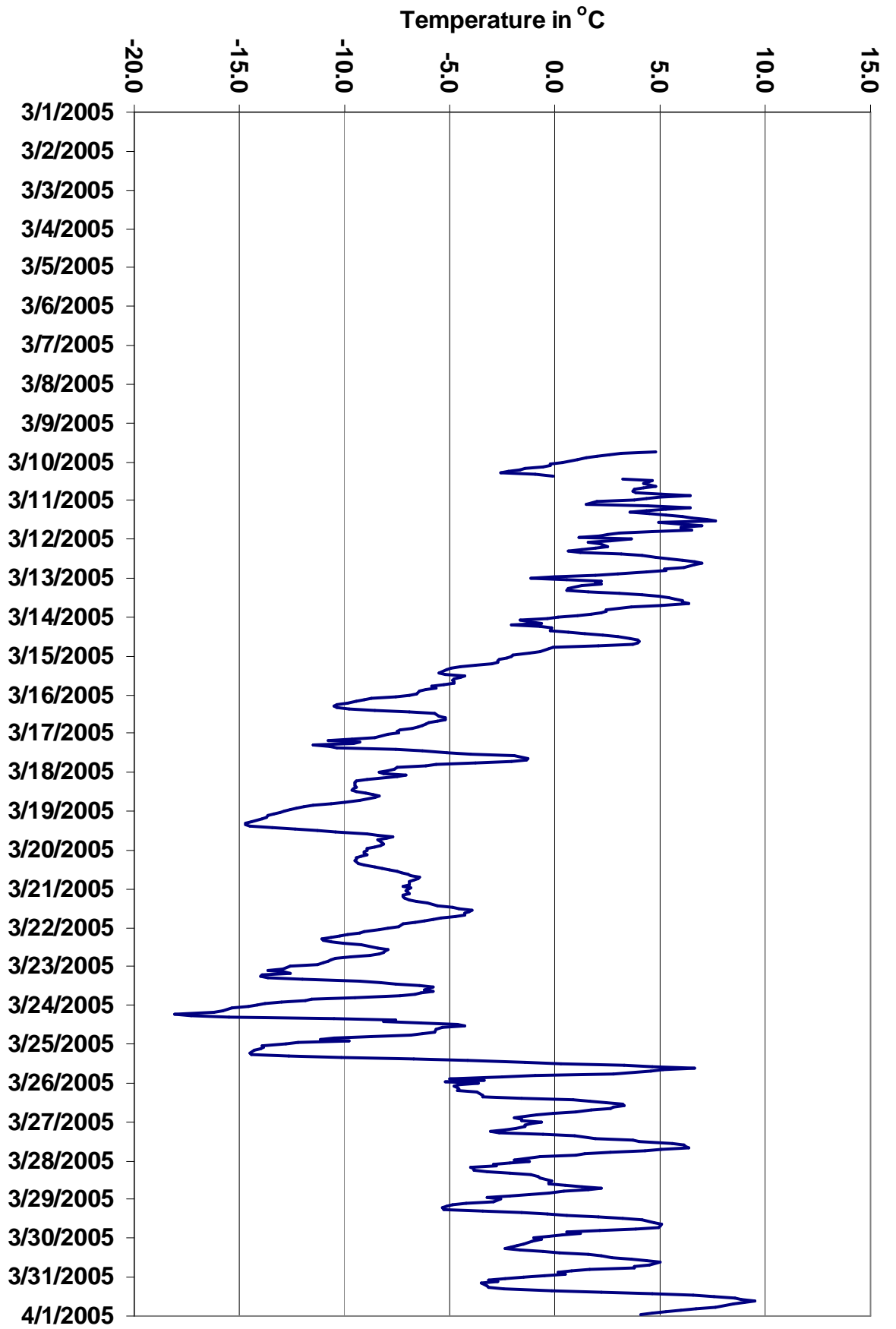
Status Flag Characters

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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-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	0.0
2-Mar-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	0.0
3-Mar-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	0.0
4-Mar-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	0.0
5-Mar-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	0.0
6-Mar-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	0.0
7-Mar-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	0.0
8-Mar-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	0.0
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5	3	3	2	2	1	N	4.8	
10-Mar-05	0	0	0	-1	-1	-2	-2	-3	-1	0	N	3	5	4	4	5	4	4	4	4	4	5	6	5	4	2.1	6.4	
11-Mar-05	4	2	1	4	6	5	4	4	4	5	6	6	7	8	5	7	6	6	6	6	5	3	2	2	1	4.7	7.7	
12-Mar-05	4	3	2	2	3	2	1	1	1	3	4	5	5	6	7	7	7	6	5	5	4	3	2	0	3.6	7.0		
13-Mar-05	-1	1	2	2	2	1	1	1	2	3	4	5	5	6	6	6	6	5	4	2	2	2	2	1	2.9	6.4		
14-Mar-05	0	0	-2	-1	-1	-2	-1	0	0	1	1	2	3	4	4	4	4	4	2	0	0	-1	-1	-2	0.7	4.0		
15-Mar-05	-2	-2	-3	-3	-3	-3	-4	-5	-5	-5	-5	-5	-4	-4	-5	-5	-5	-5	-5	-6	-6	-6	-6	-7	-4.5	-2.1		
16-Mar-05	-7	-8	-9	-9	-9	-10	-10	-10	-10	-10	-9	-7	-6	-6	-5	-5	-6	-6	-6	-6	-6	-7	-7	-7	-7	-7.6	-5.2	
17-Mar-05	-7	-8	-9	-10	-11	-9	-10	-12	-11	-10	-8	-6	-5	-4	-2	-1	-1	-2	-4	-6	-6	-8	-8	-8	-8	-6.8	-1.3	
18-Mar-05	-8	-8	-7	-8	-9	-9	-9	-10	-9	-9	-10	-10	-9	-9	-9	-8	-9	-9	-9	-10	-11	-11	-12	-12	-13	-9.5	-7.1	
19-Mar-05	-13	-13	-13	-14	-14	-14	-14	-15	-15	-14	-13	-12	-11	-10	-9	-8	-8	-8	-8	-8	-8	-8	-8	-9	-9	-11.3	-7.7	
20-Mar-05	-9	-9	-9	-9	-9	-9	-9	-10	-9	-9	-9	-8	-8	-8	-7	-7	-7	-6	-6	-7	-7	-7	-7	-7	-7	-8.0	-6.4	
21-Mar-05	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-5	-4	-4	-4	-4	-5	-5	-6	-6	-6	-7	-7	-7	-7	-6.0	-3.9	
22-Mar-05	-8	-8	-9	-9	-10	-10	-11	-11	-11	-11	-10	-9	-8	-8	-8	-8	-8	-9	-10	-10	-11	-11	-11	-11	-11	-9.6	-7.9	
23-Mar-05	-13	-13	-14	-13	-13	-14	-14	-14	-12	-9	-8	-8	-6	-6	-6	-6	-6	-7	-7	-9	-12	-12	-13	-14	-10.3	-5.8		
24-Mar-05	-14	-15	-15	-16	-16	-18	-17	-15	-11	-8	-8	-6	-5	-4	-5	-6	-6	-6	-7	-9	-11	-11	-10	-12	-10.4	-4.3		
25-Mar-05	-13	-14	-14	-14	-14	-15	-14	-13	-10	-7	-4	-1	0	3	5	7	5	5	3	-1	-2	-5	-3	-5	-5.1	6.6		
26-Mar-05	-4	-5	-5	-5	-5	-5	-4	-3	-3	-2	1	2	2	3	3	3	3	2	1	0	-1	-2	-2	-2	-1.1	3.3		
27-Mar-05	-1	-1	-1	-1	-2	-2	-3	-3	-1	1	2	4	4	6	6	6	6	5	4	3	1	1	-1	-2	1.3	6.4		
28-Mar-05	-1	-2	-3	-3	-4	-4	-4	-3	-2	-1	-1	-1	0	0	0	0	1	2	2	0	0	-1	-2	-3	-1.3	2.2		
29-Mar-05	-3	-3	-4	-5	-5	-5	-5	-3	-2	0	1	2	3	4	5	5	5	5	4	2	1	1	0	0	0.1	5.1		
30-Mar-05	-1	-1	-1	-2	-2	-2	-2	-2	-1	0	2	2	3	4	4	5	5	4	4	2	1	0	1	0	0.9	5.0		
31-Mar-05	-1	-2	-3	-3	-3	-3	-3	-2	0	2	5	7	8	9	9	9	9	9	9	8	7	6	5	4	3.2	9.5		
Hourly Avg	-4.8	-5.2	-5.6	-5.5	-5.8	-6.2	-6.3	-6.1	-5.1	-3.9	-3.1	-1.9	-1.0	-0.3	-0.1	0.3	0.1	-0.3	-0.8	-2.0	-2.7	-3.2	-3.5	-4.3				
Hourly Max	3.8	2.7	2.2	4.4	6.4	5.3	4.4	3.6	4.5	5.3	6.1	6.6	7.6	8.6	8.8	9.5	9.0	8.5	7.6	6.7	6.0	6.4	5.0	4.4				

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



Station: Smoky Heights

HOURLY AVERAGE TABLE

Wind Speed (WSv - Km/hr)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Maximum 1-hr Average:	37.4	km/hr	11-Mar	11:00 12:00
Maximum 24-hr Average:	20.5	km/hr	30-Mar	

Calm Time:	2 hrs	0% calms	Operational Time:	531 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%					
Percentile	99	95	75	50	25	5	1	AverageS	AverageV
	31.1	24.9	17.9	12.1	7.1	3.1	1.1	13.0 km/hr	4.6 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max				
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00 0:00				
1-Mar-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	0.0
2-Mar-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	0.0
3-Mar-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	0.0
4-Mar-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	0.0
5-Mar-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	0.0
6-Mar-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	0.0
7-Mar-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	0.0
8-Mar-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	0.0
9-Mar-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	0.0
10-Mar-05	15	18	15	11	14	12	9	8	8	7	N	9	11	9	5	6	8	5	10	11	17	25	18	14				11.1	25.3
11-Mar-05	17	12	10	22	30	26	26	25	24	30	37	37	31	24	7	6	14	22	28	21	19	20	18	17				20.1	37.4
12-Mar-05	30	31	24	26	34	33	21	13	15	22	23	24	25	24	20	26	23	18	10	14	12	14	10	4				20.3	33.6
13-Mar-05	8	11	17	12	23	23	21	19	17	17	19	20	16	16	11	7	6	8	2	1	4	9	5	5				10.5	23.3
14-Mar-05	13	1	7	8	10	7	3	7	8	10	12	8	6	7	7	8	6	6	3	3	9	9	4	1				3.5	13.4
15-Mar-05	3	4	4	8	8	7	12	17	18	16	17	18	19	22	19	21	21	21	21	21	19	19	16	18				15.3	21.8
16-Mar-05	17	17	16	16	19	16	17	17	19	17	17	16	15	16	15	14	13	14	13	11	12	11	10	8				14.6	19.0
17-Mar-05	8	8	10	5	6	3	4	5	7	6	6	6	7	5	2	2	1	6	9	8	6	4	7	5				2.0	9.6
18-Mar-05	6	7	9	15	14	13	18	20	21	21	24	21	21	20	21	24	23	25	23	24	24	23	24	25				19.3	25.3
19-Mar-05	25	26	27	23	21	20	20	20	20	20	18	17	18	17	18	17	21	22	19	22	16	14	15	16				19.3	26.5
20-Mar-05	13	13	15	19	19	19	19	23	21	21	22	22	22	22	24	21	17	13	16	14	14	13	9	10				17.4	23.5
21-Mar-05	12	10	15	15	14	18	17	14	15	14	13	13	12	9	11	11	10	11	9	9	7	8	8	7				10.4	17.9
22-Mar-05	11	11	6	14	16	11	14	17	18	18	18	17	15	14	14	13	13	12	13	12	10	12	11	8				13.1	17.9
23-Mar-05	8	7	6	7	7	7	8	6	3	6	6	6	6	6	7	9	9	12	10	7	6	5	6	6				6.6	11.9
24-Mar-05	7	6	5	4	5	3	2	1	calm	4	11	14	11	6	15	16	12	13	8	9	10	7	7	12				3.7	16.4
25-Mar-05	12	10	9	11	10	10	11	14	7	10	12	15	13	5	4	1	5	6	6	2	1	1	1	1				5.9	14.7
26-Mar-05	4	5	5	3	3	1	3	2	7	5	7	12	14	7	1	5	9	10	8	5	3	calm	3	6				0.8	14.1
27-Mar-05	7	7	4	7	11	7	4	10	13	16	15	18	11	17	20	22	22	18	14	12	12	10	9	11				12.1	22.5
28-Mar-05	7	7	6	5	4	4	7	8	7	9	6	3	6	4	5	4	6	9	11	9	5	4	7	6				5.4	11.0
29-Mar-05	9	7	7	8	9	7	10	12	15	17	17	20	25	21	18	20	20	15	14	11	9	14	16	16				14.2	25.1
30-Mar-05	13	17	18	19	19	20	20	24	30	31	29	26	28	26	18	25	23	17	22	16	16	18	20	15				20.5	31.5
31-Mar-05	14	11	12	11	7	7	6	4	7	8	7	13	14	12	12	12	11	13	10	11	12	16	14	15				9.9	16.4
1-hr Vector	4.4	4.7	4.8	4.9	5.8	5.0	5.3	5.0	4.5	4.6	5.3	4.9	4.7	5.5	5.4	6.1	6.2	5.9	4.4	3.5	3.6	3.4	3.4	3.1					
Hourly Max	29.6	31.1	26.5	25.7	33.6	32.6	25.6	24.9	30.1	31.5	37.1	37.4	31.1	25.6	23.5	26.2	23.2	24.9	27.5	23.8	24.4	25.3	24.5	25.3					

Station: Smoky Heights

HOURLY AVERAGE TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	533 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	Average
	356.7	343.4	263.8	225.8	43.7	15.0	1.1	326 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	
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-Mar-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
2-Mar-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
3-Mar-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
4-Mar-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
5-Mar-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
6-Mar-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
7-Mar-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
8-Mar-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-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	261	248	253	265	263	264	N	N
10-Mar-05	254	263	276	253	244	254	241	218	211	191	N	240	245	248	260	218	265	354	258	253	252	246	244	237	249	
11-Mar-05	233	270	270	245	251	242	258	257	250	257	269	263	260	304	34	338	347	300	288	279	270	269	267	265	269	
12-Mar-05	314	322	312	304	322	330	325	289	291	304	318	318	312	296	301	310	322	329	325	313	2	340	17	340	317	
13-Mar-05	272	304	316	313	324	324	316	313	305	307	316	324	332	324	346	352	24	28	61	85	23	40	106	206	325	
14-Mar-05	244	17	226	263	282	284	37	357	358	29	45	31	30	20	20	30	38	49	40	82	82	111	117	53	19	
15-Mar-05	102	44	25	51	51	44	36	39	46	56	55	53	57	57	55	54	69	59	57	53	55	58	52	52	54	
16-Mar-05	56	53	33	33	33	33	27	30	34	33	27	28	32	34	35	39	39	34	30	22	15	10	1	3	32	
17-Mar-05	355	351	349	336	292	298	219	224	237	230	247	257	258	231	173	107	301	23	52	65	46	34	24	3	326	
18-Mar-05	3	354	1	26	28	25	15	20	18	12	17	12	15	18	17	22	26	30	31	30	27	27	26	30	22	
19-Mar-05	28	31	30	30	29	30	29	34	36	31	36	42	27	27	40	35	40	42	39	52	62	68	71	75	39	
20-Mar-05	78	75	75	81	70	69	69	62	71	70	71	68	66	59	56	56	55	49	53	51	51	58	40	78	64	
21-Mar-05	81	83	88	81	64	64	61	57	60	49	44	42	33	33	18	16	1	353	0	359	0	6	17	359	44	
22-Mar-05	347	352	346	342	351	340	330	324	326	327	328	330	351	354	349	341	324	326	316	324	331	337	337	356	336	
23-Mar-05	342	342	340	345	1	357	349	350	36	31	31	6	6	0	359	8	19	17	38	65	22	6	13	24	8	
24-Mar-05	21	16	13	13	33	50	8	347	216	138	152	144	148	214	264	266	259	257	263	261	283	269	269	268	254	
25-Mar-05	266	253	239	262	263	268	264	239	247	229	242	244	243	264	262	75	27	15	15	49	25	249	285	330	259	
26-Mar-05	218	237	242	264	246	121	168	9	30	26	132	144	148	149	283	22	32	34	33	21	14	332	247	263	81	
27-Mar-05	272	211	253	276	230	221	270	246	230	231	233	247	253	262	260	265	257	265	271	266	291	262	257	263	255	
28-Mar-05	237	236	253	248	215	221	227	249	246	263	217	188	241	173	141	141	189	167	151	160	189	226	247	256	212	
29-Mar-05	246	232	234	242	260	265	267	243	243	241	242	242	246	245	240	242	241	237	235	265	252	245	247	252	245	
30-Mar-05	257	257	253	253	249	253	257	256	261	261	289	282	262	277	313	298	291	269	264	260	251	253	257	249	267	
31-Mar-05	243	237	252	255	217	190	215	237	187	173	164	193	198	190	178	209	235	203	170	165	188	190	188	176	201	
Hourly Avg	302	322	320	318	319	328	329	322	322	317	328	313	309	322	348	344	344	352	340	340	335	315	308	299		

Station: Smoky Heights

STANDARD DEVIATION TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: March 1, 2005 to April 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	533 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%			
Percentile	99	95	75	50	25	5	1
	48.0	27.2	9.3	6.2	4.4	2.8	2.3

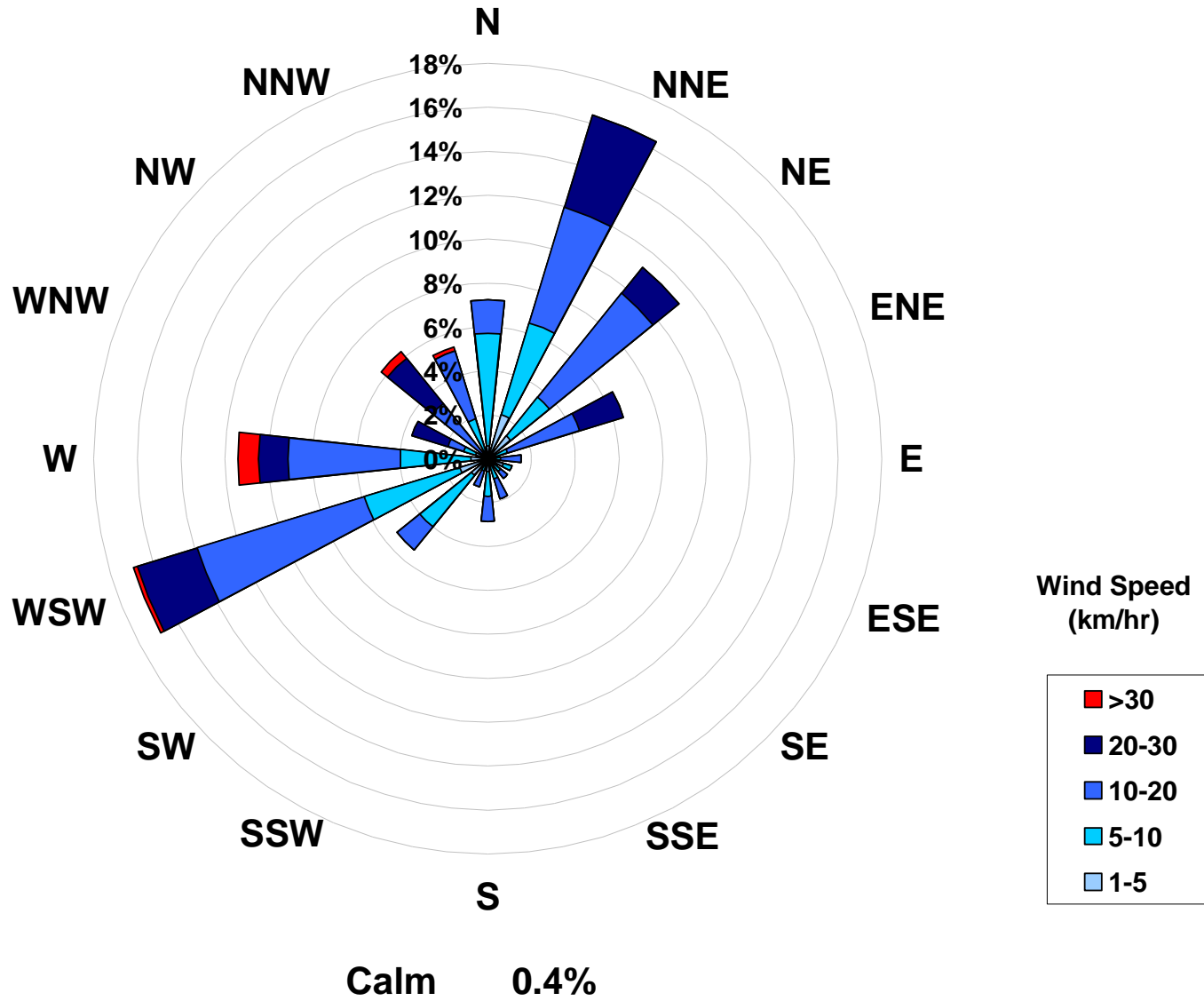
Status Flag Characters

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	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-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-Mar-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-Mar-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-Mar-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-Mar-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
6-Mar-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
7-Mar-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
8-Mar-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
9-Mar-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	8	3	3	2	3	1		7.9	
10-Mar-05	3	2	3	8	6	3	6	7	8	9	N	8	5	38	40	35	12	37	17	4	8	3	3	4		39.7	
11-Mar-05	5	5	6	4	3	3	4	3	3	4	3	2	4	14	15	44	12	7	5	6	3	3	4	11		44.4	
12-Mar-05	6	6	5	5	5	5	6	5	4	7	9	10	9	7	9	9	8	7	4	10	14	13	10	26		26.0	
13-Mar-05	7	8	5	5	5	4	4	3	4	5	7	9	11	13	12	12	13	4	15	24	11	9	23	35		34.8	
14-Mar-05	4	46	8	13	14	8	28	10	6	9	8	15	27	27	25	21	16	12	16	18	8	7	7	34		46.0	
15-Mar-05	11	9	10	4	6	6	4	4	5	5	5	6	7	5	6	6	9	9	5	5	7	6	8	7		11.2	
16-Mar-05	8	6	4	5	4	4	4	4	4	5	6	8	7	8	10	9	8	5	5	4	5	5	6	7		10.0	
17-Mar-05	5	4	4	6	4	27	20	8	9	12	8	8	8	18	44	47	69	13	7	4	8	12	3	4		68.8	
18-Mar-05	3	3	7	5	4	4	4	5	4	6	7	7	8	7	7	6	7	5	5	4	4	5	4	4		7.8	
19-Mar-05	3	4	4	4	4	5	4	4	5	5	7	6	8	8	9	7	7	6	4	4	4	5	5	5		9.4	
20-Mar-05	6	7	6	7	6	7	7	7	7	7	8	7	6	6	5	5	5	5	4	4	4	7	9	15		14.8	
21-Mar-05	9	12	8	7	6	5	6	5	5	5	5	5	6	5	4	5	6	6	6	6	6	7	5	7		12.3	
22-Mar-05	5	5	18	6	5	7	5	5	5	6	6	9	7	8	8	10	8	9	6	4	6	4	4	11		18.1	
23-Mar-05	3	3	3	6	6	5	3	5	42	28	7	15	13	14	11	13	9	8	17	7	5	2	3	3		42.3	
24-Mar-05	3	3	3	6	7	9	6	36	39	17	5	5	9	23	3	3	7	4	5	6	6	7	6	5		38.9	
25-Mar-05	4	6	8	5	3	3	6	4	11	6	5	3	3	49	17	49	7	5	4	22	52	26	15	50		51.7	
26-Mar-05	14	10	6	8	12	41	31	26	5	10	21	5	6	14	25	44	6	6	4	12	15	48	28	22		48.4	
27-Mar-05	8	15	20	10	7	9	29	7	4	3	2	4	6	4	4	3	4	2	6	5	4	8	6	4		29.2	
28-Mar-05	22	11	8	8	12	9	7	9	6	14	19	18	18	25	22	26	11	12	4	6	28	19	15	14		27.6	
29-Mar-05	9	5	6	6	4	6	5	3	4	3	5	5	4	8	8	5	4	4	2	16	12	4	2	6		16.2	
30-Mar-05	4	3	3	2	3	2	3	2	4	4	10	7	10	8	12	15	7	5	3	3	3	4	3	4		15.4	
31-Mar-05	3	3	3	4	6	7	6	13	7	8	15	14	14	15	15	13	9	6	3	4	5	3	3	3		14.8	
Hourly Max	22	46	20	13	14	41	31	36	42	28	21	18	27	49	44	49	69	37	17	24	52	48	28	50			

Wind Rose for the 1-hr Average Meterological Data at the Smoky Heights Site for March 2005



PEACE AIRSHED ZONE ASSOCIATION

PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for March 2005

PASZA					
Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Site Legal
Duplicates					
1a	Silver Valley	0.5	52.2	1.2	
1b	Silver Valley	0.5	47.2	1.1	
2a	Bay Tree	0.2	46.0	0.7	
2b	Bay Tree	0.2	45.1	0.6	
5a	Boone Creek	0.3	45.4	0.9	
5b	Boone Creek	0.2	44.4	0.9	
49a	Grande Prairie HP	0.3	34.4	11.4	
49b	Grande Prairie HP	0.3	33.0	11.7	
1	Silver Valley	0.5	49.7	1.1	08-27-081-11 W6M
2	Bay Tree	0.4	45.6	0.7	13-16-078-13 W6M
3	Forth Creek	0.4	48.2	1.0	04-13-082-07 W6M
4	Gordondale	0.4	49.3	1.4	04-34-078-10 W6M
5	Boone Creek	0.2	44.9	0.9	01-23-076-11 W6M
7	Steeprock Creek	0.3	47.8	0.8	09-35-072-13 W6M
9	Spirit River	0.5	47.2	1.3	08-12-079-07 W6M
10	Woking	0.5	50.6	0.8	01-13-076-07 W6M
11	Webber Creek	0.4	42.8	1.5	09-36-074-09 W6M
12	Hythe	0.4	45.1	1.8	14-36-072-11 W6M
14	Sylvester	0.2	44.3	0.8	08-06-069-12 W6M
16	Beaverlodge	0.5	42.5	3.2	15-36-071-10 W6M
17	Poplar	0.3	46.2	1.8	13-06-073-08 W6M

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

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
18	Saddle Hills	0.4	50.0	1.0	04-25-074-07 W6M
19	Wanham	0.4	50.0	1.0	16-22-077-03 W6M
20	Shaftesbury	0.2	43.5	0.8	04-03-082-23 W5M
21	Eaglesham	0.2	44.5	0.5	16-21-079-25 W5M
23	Bear Lake	0.3	46.5	1.6	15-31-072-06 W6M
24	Wembley	0.4	41.1	2.3	12-31-070-08 W6M
25	Pinto Creek	0.2	46.7	1.1	04-24-069-11 W6M
26	Flyingshot	0.3	41.4	3.5	15-36-070-07 W6M
27	Grande Prairie I	0.4	38.6	9.6	08-15-071-06 W6M
28	Clairmont Lake	0.4	53.5	1.6	09-06-073-04 W6M
29	Smoky Heights	0.7	48.4	1.5	04-06-075-02 W6M
30	Fitzsimmons	0.3	46.3	1.5	15-36-072-03 W6M
32	Gold Creek	0.7	44.2	2.4	06-33-067-05 W6M
33	Wapiti	0.3	44.3	1.6	02-25-071-03 W6M
34	Puskwaskau	0.3	50.2	0.6	15-35-074-25 W5M
35	Jean Cote	0.3	51.3	0.9	12-35-079-21 W5M
36	Guy	0.2	42.3	0.8	03-04-076-22 W5M
37	Crooked Creek	0.3	41.0	2.0	16-01-071-26 W5M
38	Karr Creek	0.3	40.4	0.6	10-16-065-02 W6M
39	Clouston Creek	0.3	43.5	1.2	12-01-073-22 W5M
40	McLennan	0.3	47.3	1.0	03-29-077-19 W5M
41	Valleyview	0.5	45.5	1.2	09-30-069-22 W5M
42	Sunset House	0.5	48.7	0.6	05-32-070-19 W5M
43	High Prairie	0.2	48.3	1.8	16-13-074-17 W5M
44	Peavine	0.2	46.2	0.5	03-05-079-15 W5M
45	Gift Lake	0.2	48.3	1.1	10-07-079-12 W5M
46	Little Smoky	0.3	40.1	5.2	12-01-065-21 W5M
47	Kinuso	0.2	40.9	1.0	12-10-073-10 W5M
48	Deer Mountain	0.3	45.8	0.4	15-22-068-09 W5M
49	Grande Prairie HP	0.3	33.7	11.6	17-26-071-06 W6M

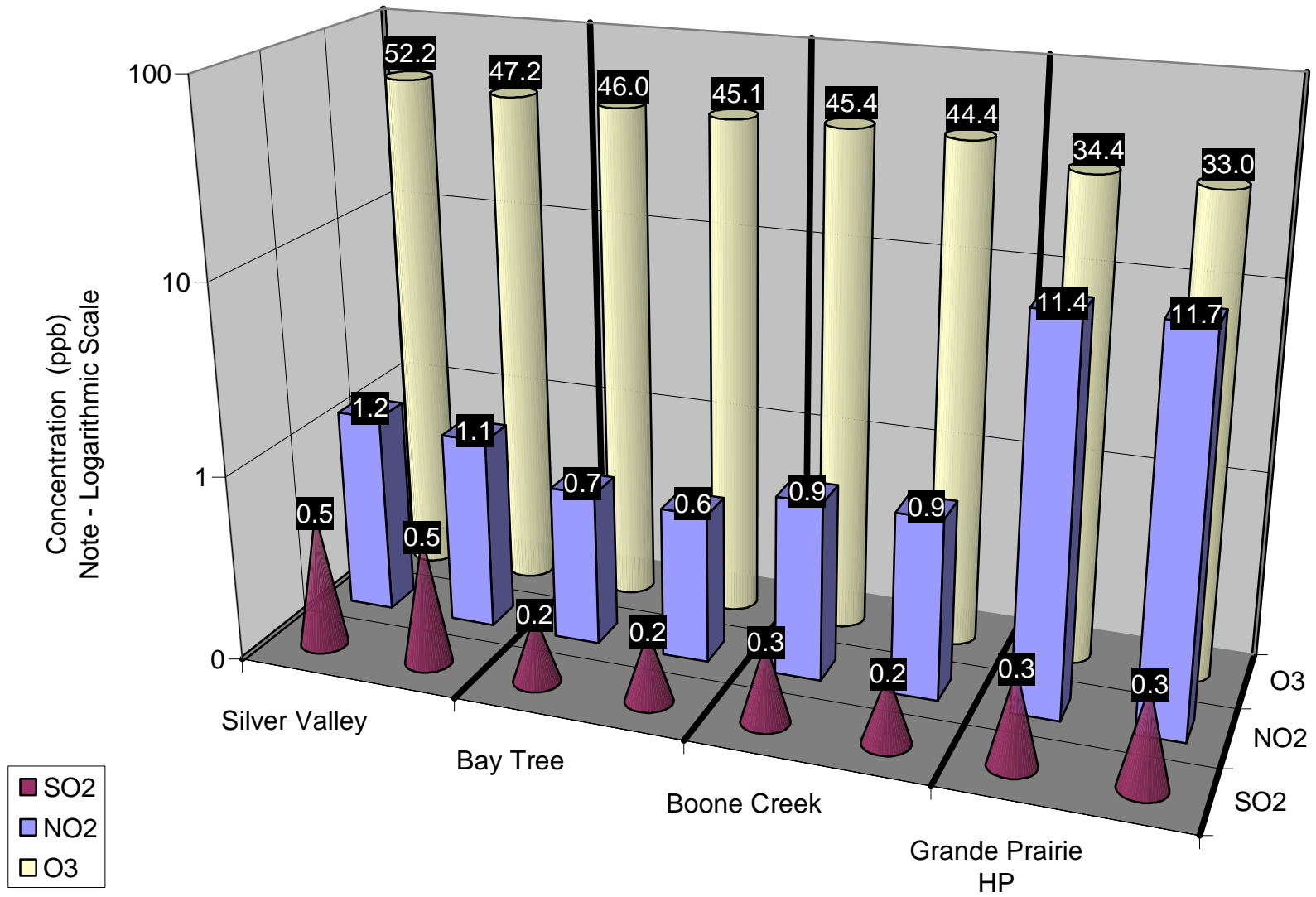


Figure 21. Duplicate Summary Chart

Table 2. Passive Summary Results for March 2005

Stats	Sulphur Dioxide	Ozone	Nitrogen Dioxide
	SO ₂	O ₃	NO ₂
	ppb	ppb	ppb
Passive Summary for March 2005 (PASZA Zone)			
Mean	0.3	45.5	1.8
Standard Deviation	0.1	3.9	2.2
Minimum	0.2	33.7	0.4
Maximum	Sylvester (#14)	Grande Prairie HP (#49)	Deer Mountain (#48)
	0.7	53.5	11.6
	Smoky Heights (#29)	Clairmont Lake (#28)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	No Data available at time of reporting		
PASZA Beaverlodge passive	0.5	42.5	3.2
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.5	25.0	15.5
PASZA Grande Prairie passive	0.3	33.7	11.6

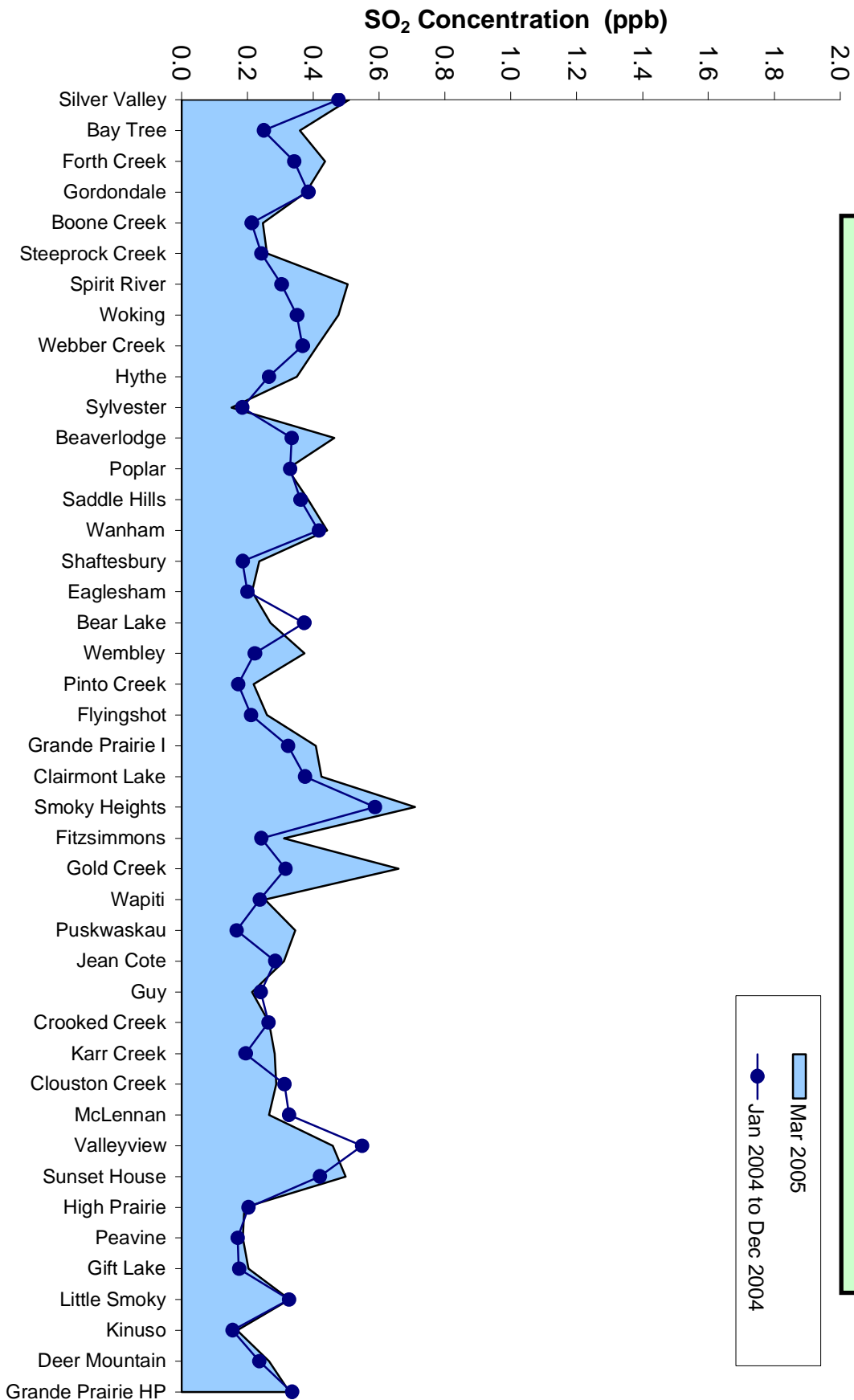


Figure 35. SO₂ Summary Chart

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

PASZA Passive O₃ Stations - Mar 2005
Average Concentrations in ppb

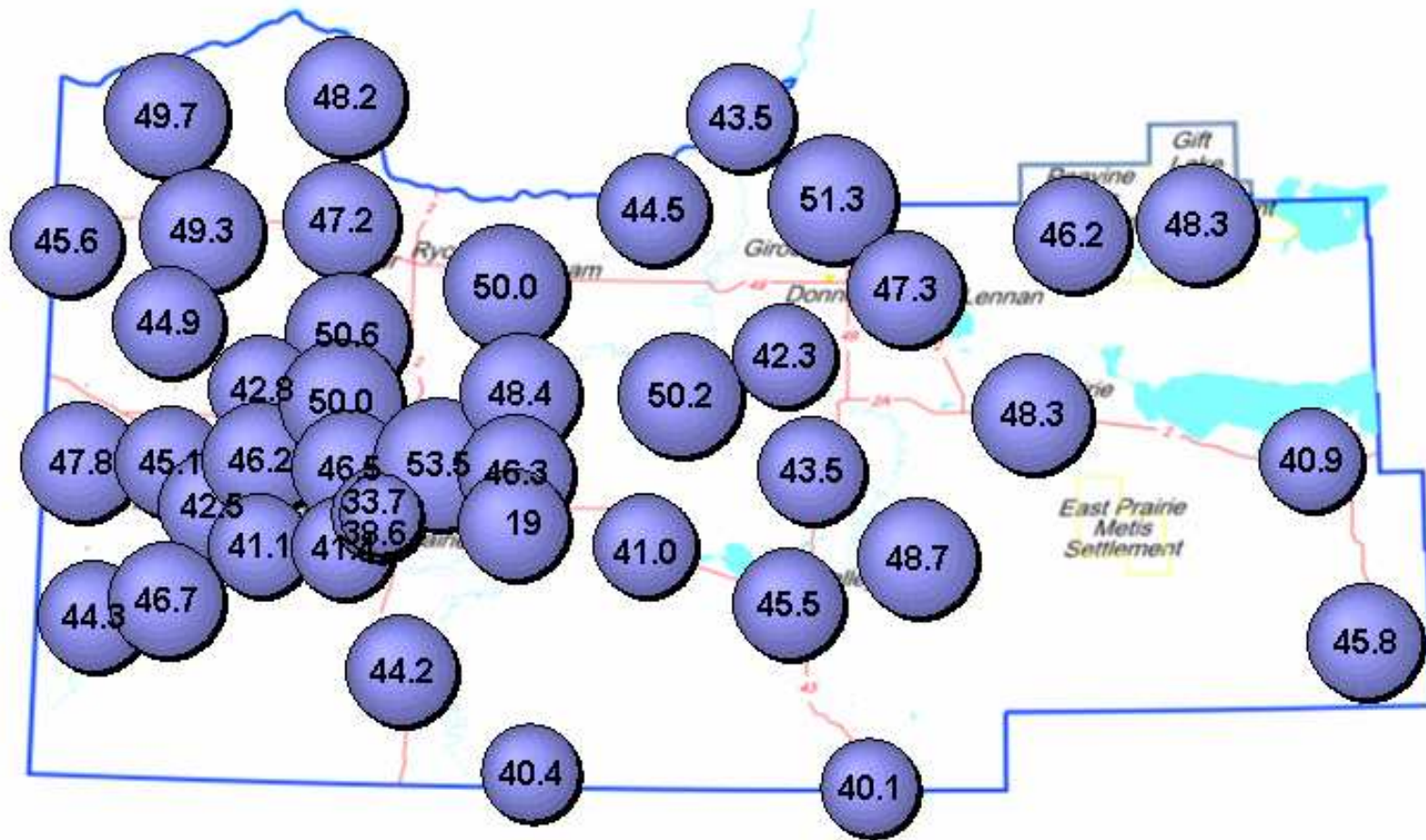


Figure 36. O₃ Bubble Chart

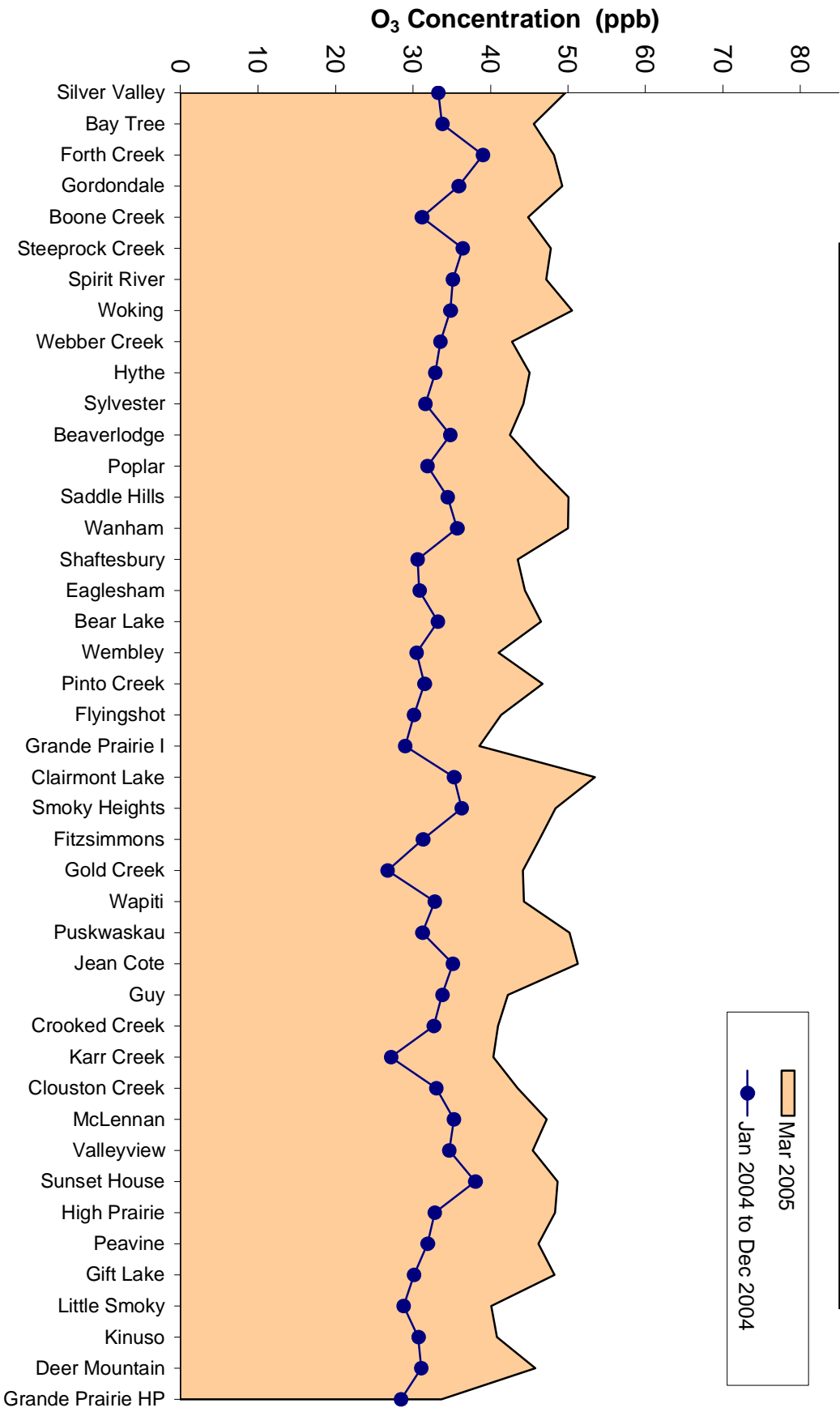


Figure 37. O₃ Summary Chart

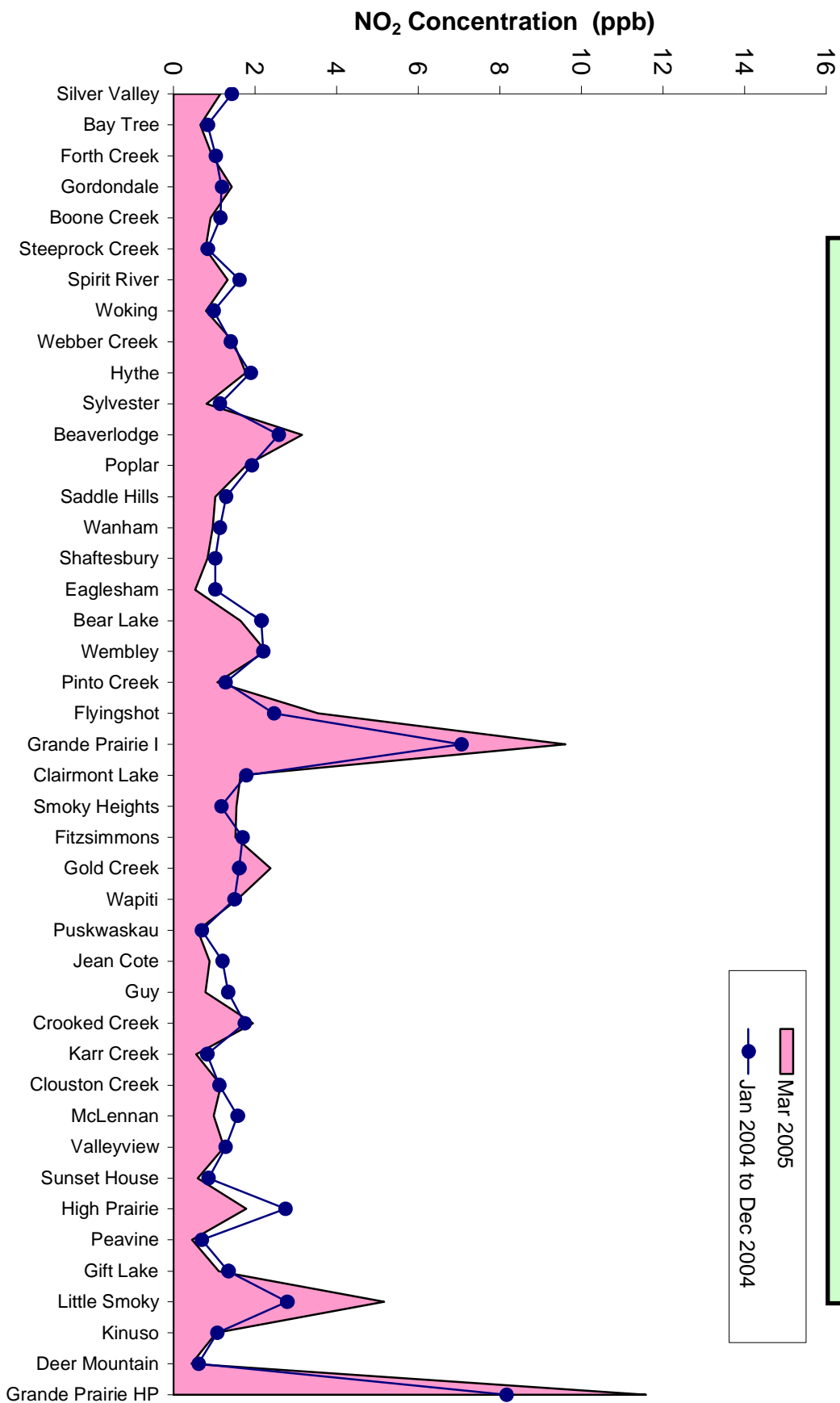


Figure 39. NO₂ Summary Chart

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

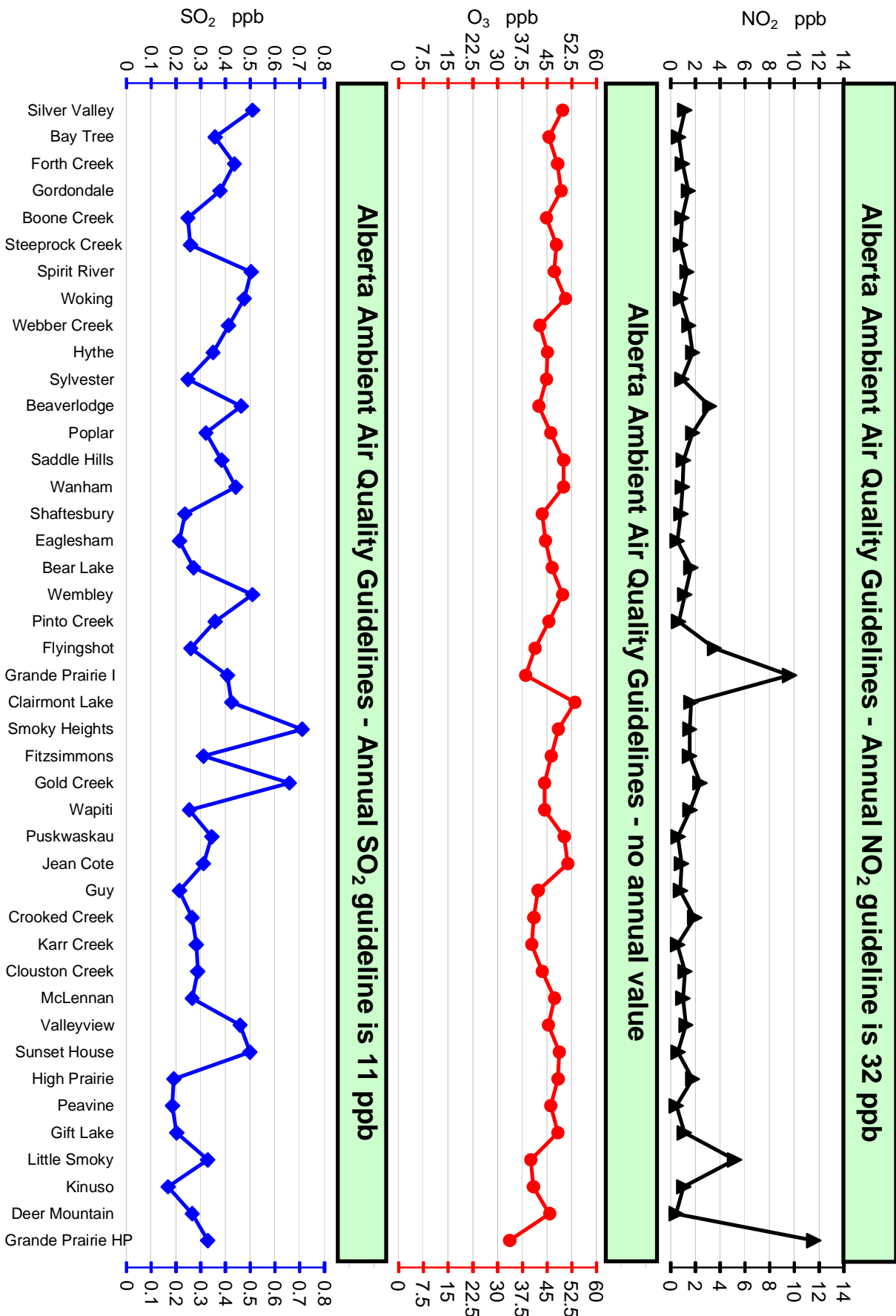


Figure 40. Overview Summary

March 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

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS

Calibration Report

Parameter SO2
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	<u>March 16, 2005</u>	Previous Calibration	<u>February 24, 2005</u>
Station Number	<u>1</u>	Station Location	<u>Muskosepi Park</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>11:20</u>	End Time (MST)	<u>13:50</u>
Barometric Pressure	<u>27.6</u> inches Hg	Station Temperature	<u>21.0</u> Deg C
Calibrator	<u>Enviroics 6100</u>	Serial Number	<u>3016</u>
Cal Gas Concentration	<u>50.8</u> ppm	Cal Gas Expiry Date	<u>11/22/2006</u>
Gas Cert Reference	<u>BAL786</u>		
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>1</u>
DACS voltage range	<u>0 - 10 volt</u>	DACS channel #	<u>8</u>
	<u>Before</u>		<u>After</u>
DACS slope	<u>0.005000</u>	DACS slope	<u>0.005000</u>
DACS intercept	<u>0.000000</u>	DACS intercept	<u>0.000000</u>
Calculated slope	<u>1.005931</u>	Calculated slope	<u>0.988588</u>
Calculated intercept	<u>-0.438839</u>	Calculated intercept	<u>0.037218</u>
Analyzer make	<u>TEI Model 43A</u>	Analyzer serial #	<u>43A-21120-195</u>

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	171		171	
SO2 span pot	210		210	
UV Lamp voltage	937	v	937	v
Sample Flow	430	ccm	430	ccm

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	-0.1	N/A
4993	39.97	403.4	408.1	0.9885
4993	19.98	202.5	204.5	0.9903
4993	9.99	101.4	102.9	0.9860
4993	0.00	0.0	-0.1	As found zero
4993	39.99	403.6	408.1	As found span
Average Correction Factor				0.9883

Calculated value of As Found Response: 410.2 ppm Percent Change of As Found: -1.6%

	before calibration		after calibration	
Auto zero	<u>-0.5</u>	ppm	<u>0.1</u>	ppm
Auto span	<u>338.1</u>	ppm	<u>338.5</u>	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

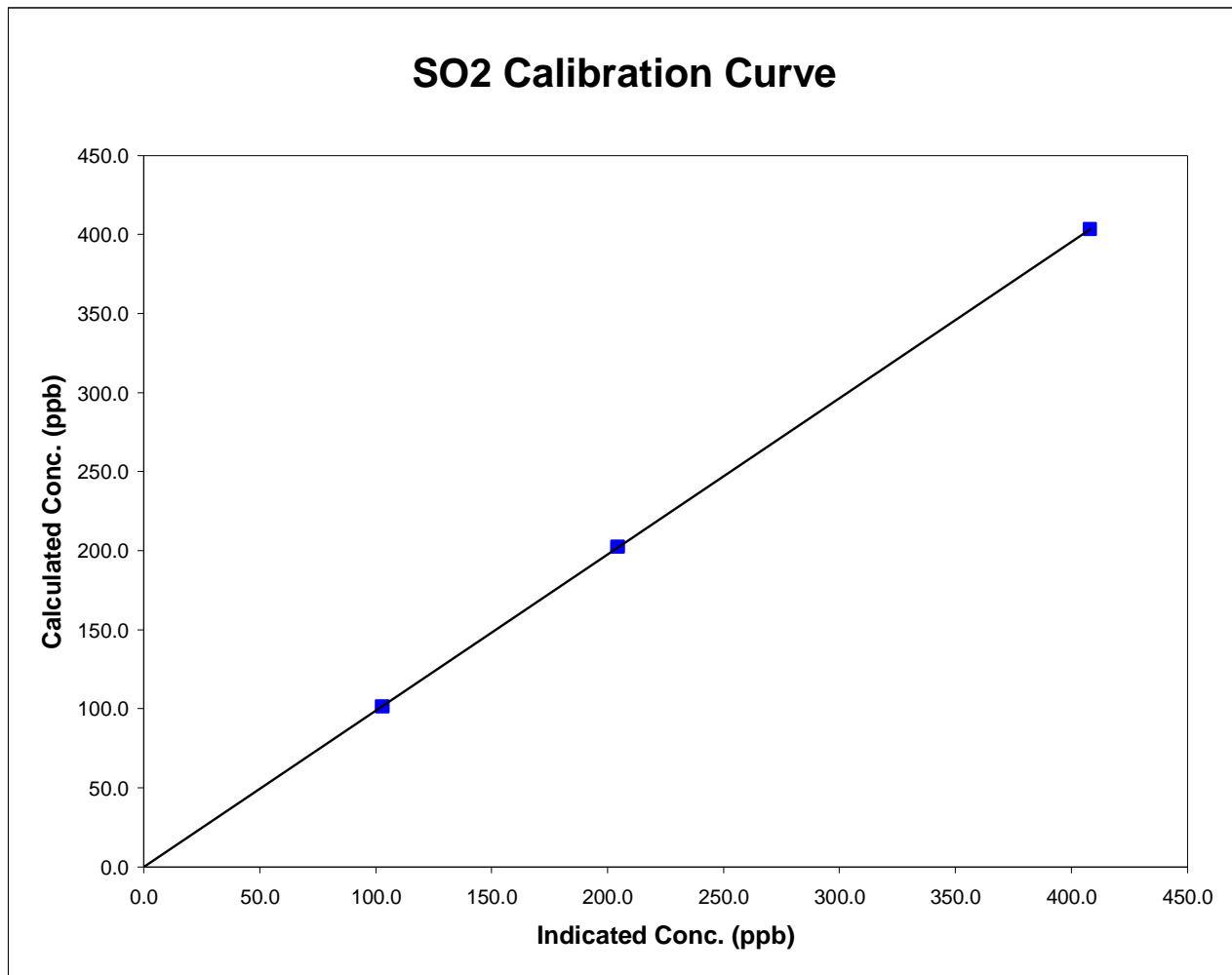


Station Information

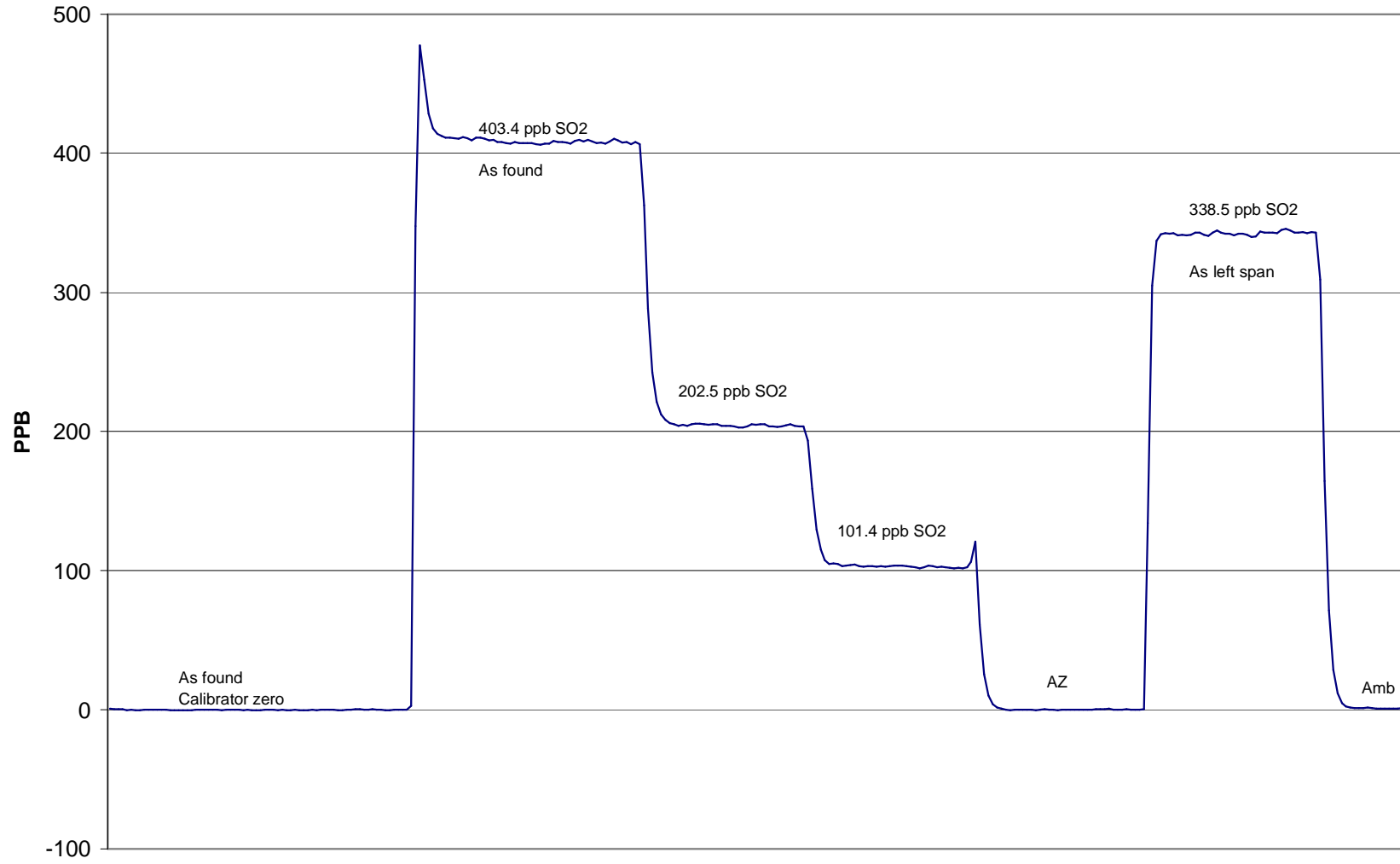
Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	13:50
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
403.4	408.1	0.9885	Correlation Coefficient	0.999998
202.5	204.5	0.9903		
101.4	102.9	0.9860		
			Slope	0.988588
			Intercept	0.037218



SO2 Calibration



March 16, 2005

Calibration Report

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

**Station Information**

Calibration Date March 16, 2005 Previous Calibration February 24, 2005
 Station Number 1 Station Location Muskoseepi Park

Reason: Routine Installation Removal Other: _____

Start Time (MST) 11:20 End Time (MST) 15:30
 Barometric Pressure 0.922 Atm Station Temperature 21.0 Deg C
 Calibrator EnviroNics 6100 Serial Number 3016
 NO Cal Gas Conc 50.3 ppm Cal Gas Expiry Date 19-Jan-06
 NOx Cal Gas Conc 50.5 ppm Cal Gas Serial # ALM025793

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
After	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
Before	Data Slope	1.015225	1.002200	1.001593
	Data Offset	0.227447	-0.202538	-0.275547
After	Data Slope	1.008657	1.006969	1.003384
	Data Offset	0.251949	-1.017562	-0.950233
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	10.5	ppb	10.5	mV
NOx background	11.1	ppb	11.1	mV
NO coefficient	1.449		1.449	
NOx coefficient	1.003		1.003	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	0.4	Deg C	2.0	Deg C
Converter Temp	323.0	Deg C	323.0	Deg C
Vacuum	21.0	inches Hg	21.0	inches Hg
Box temp	29.0	ccm	29.2	ccm

Notes: No adjustments or maintenance performed.

Calibration Report

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



Station Information

Calibration Date: March 16, 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	1.2	1.0	0.2	N/A	N/A	
1	4993	39.97	401.1	399.5	1.6	399.4	399.1	0.1	1.0041	1.0009	
2	4993	19.98	201.3	200.5	0.8	200.7	200.7	-0.2	1.0029	0.9987	
3	4993	9.99	100.8	100.4	0.4	101.0	100.9	-0.1	0.9983	0.9951	
AFZ	4993	0.00	0.0	0.0	0.0	1.2	1.0	0.2	0.0000	0.0000	
AFS	4993	39.97	401.1	399.5	1.6	399.4	399.1	0.1	1.0041	1.0009	
									Average Correction Factor	1.0018	0.9982

As Found Concentrations: NO_x= 398.0 NO= 397.8 As Found Percent Change NO_x= -0.8% NO= -0.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	401.5	399.8	1.7	399.3	399.4	-0.3	1.0053	1.0010	N/A	N/A	
350	401.5	81.3	320.2	399.4	82.0	317.1	1.0051	0.9918	1.0096	99.0%	
200	401.5	218.4	183.1	400.2	218.6	181.8	1.0030	0.9990	1.0071	99.3%	
100	401.5	310.4	91.1	399.4	310.3	89.2	1.0052	1.0003	1.0214	97.9%	
							Average Correction Factor	1.0044	0.9971	1.0127	98.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-0.2	0.2	-0.2	ppb	-1.2	0.3	-1.0	ppb
Auto span	404.9	407.6	2.2	ppb	406.7	406.1	1.3	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA

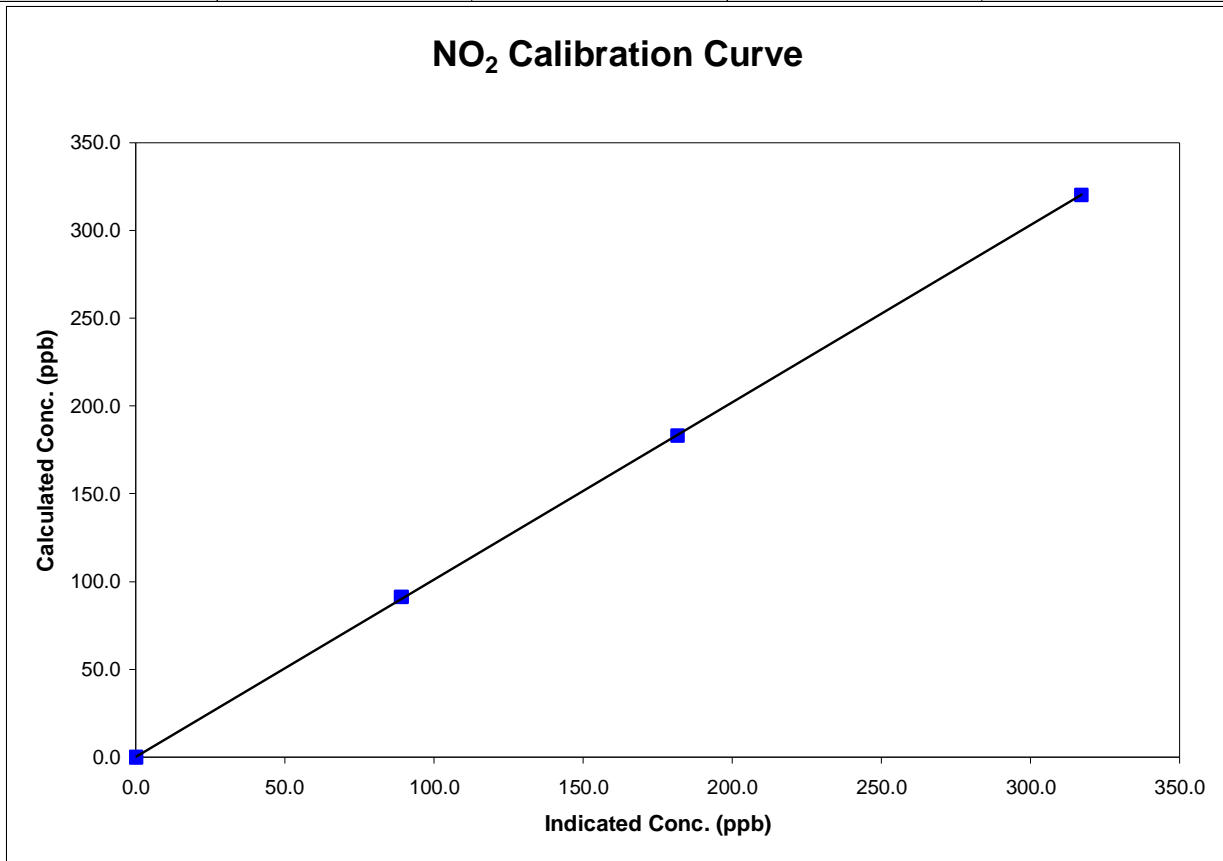


Station Information

Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	15:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999978
320.2	317.1	1.0096		
183.1	181.8	1.0071		
91.1	89.2	1.0214		
			Slope	1.008657
			Intercept	0.251949



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

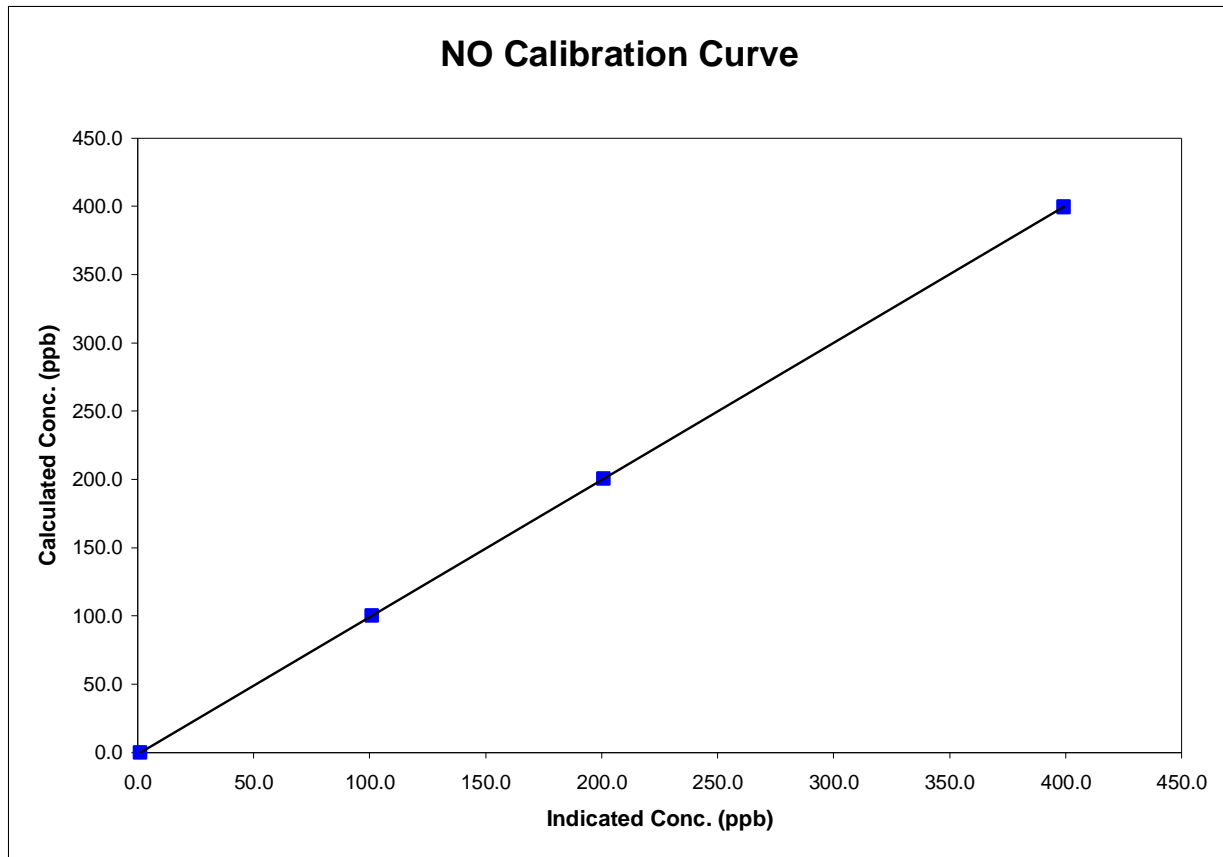


Station Information

Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	15:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	N/A		
399.5	399.1	1.0009	Correlation Coefficient	1.000000
200.5	200.7	0.9987		
100.4	100.9	0.9951		
			Slope	1.003384
			Intercept	-0.950233



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

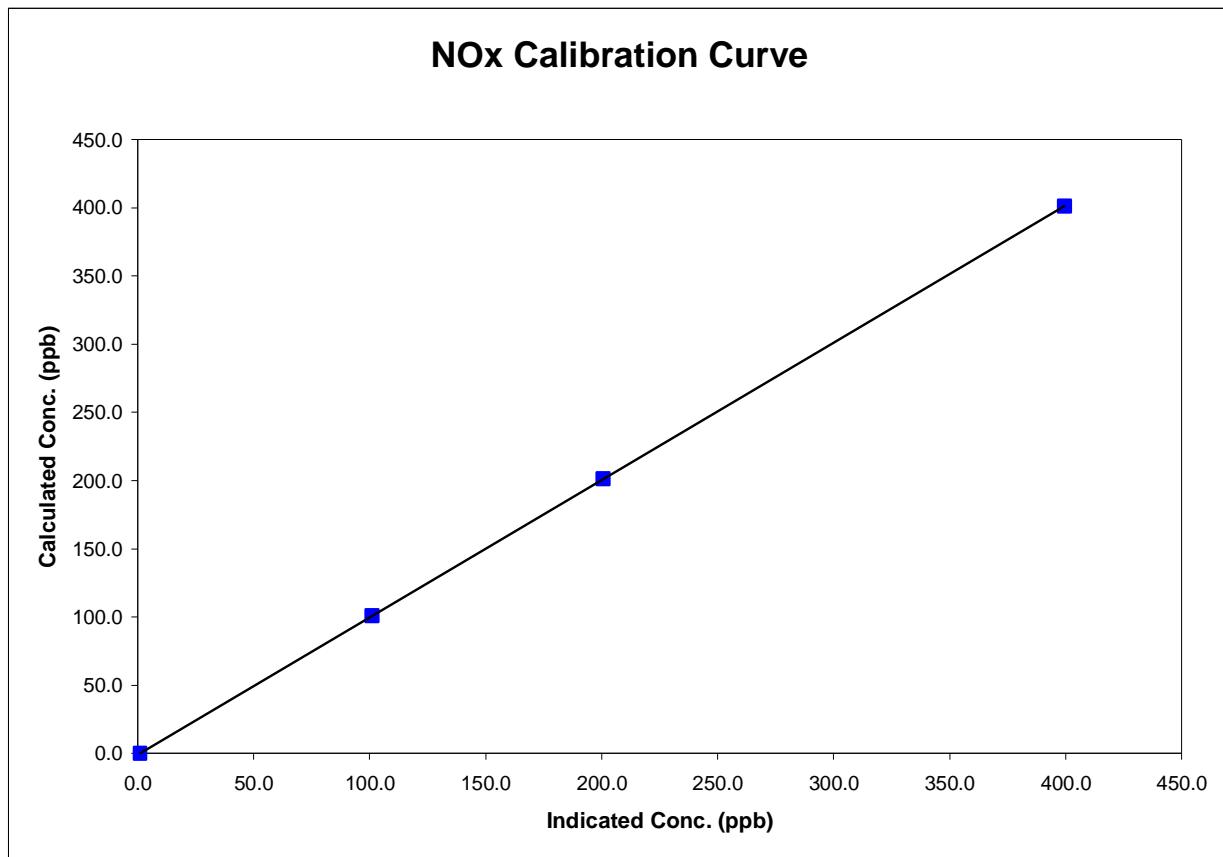


Station Information

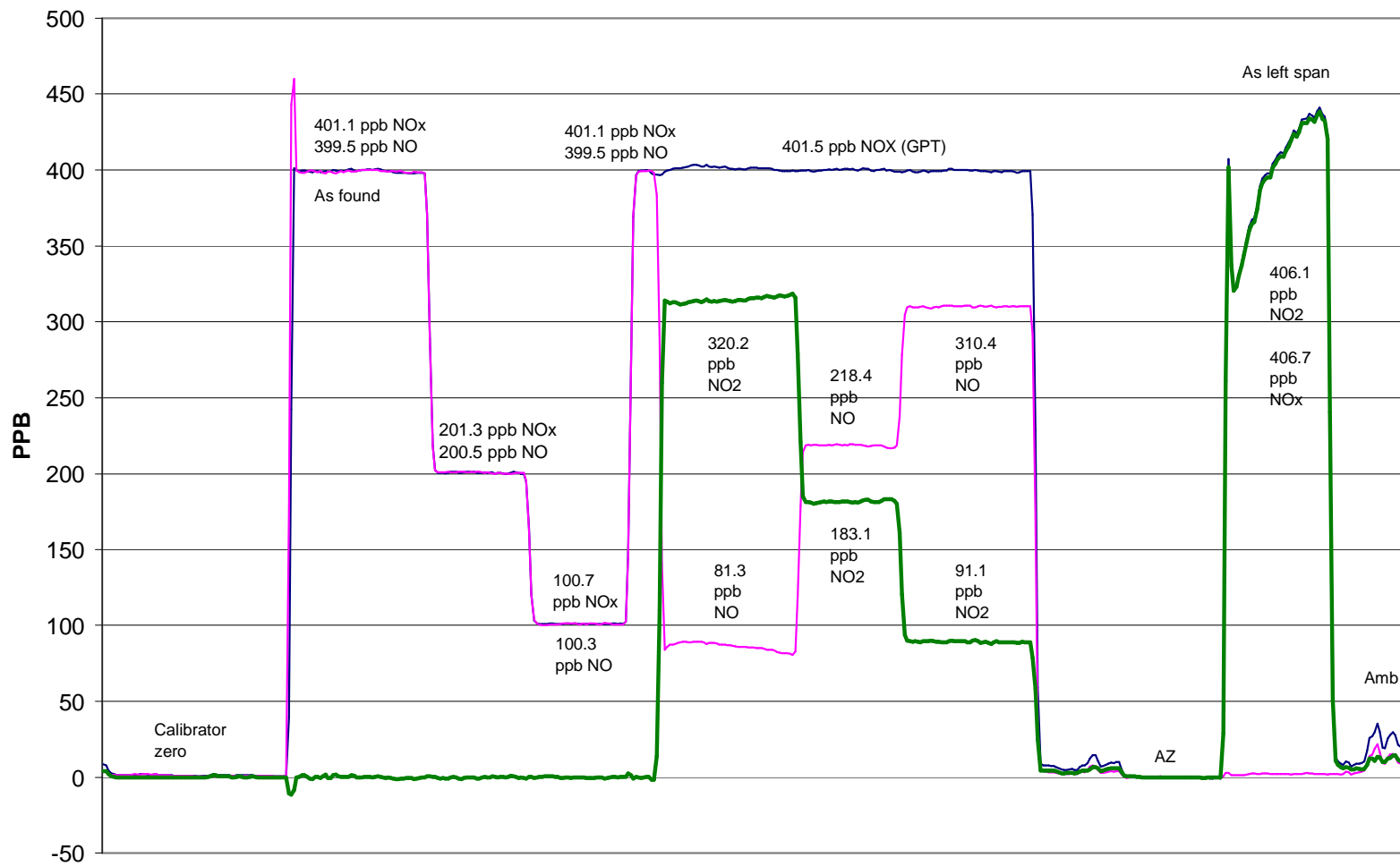
Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	15:30
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.2	0.0000	Correlation Coefficient	0.999999
401.1	399.4	1.0041		
201.3	200.7	1.0029		
100.8	101.0	0.9983		
			Slope	1.006969
			Intercept	-1.017562



NOx Calibration



March 16, 2005

Calibration Report

Parameter 03Air Monitoring Network PASZA

Station Information

Calibration Date	March 16, 2005	Previous Calibration	February 24, 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)	19:35	End Time (MST)	22:00
Barometric Pressure	0.922 atm	Station Temperature	21.5 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
Cal Gas Concentrator	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.000235	Calculated slope	1.005522
Calculated intercept	1.119352	Calculated intercept	1.085864
Analyzer make	API Model 400	Analyzer serial #	383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-1.2	ppb	-1.2	ppb
slope	1.048		1.048	
Lamp measure	2687	mV	2662	mV
Lamp Reference	2690	mV	2663	mV
Pressure	27	inches Hg	26.9	inches Hg
Sample Flow	667	ccm	664	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	0.8	N/A
4995	0.00	320.2	318.6	1.0051
4995	0.00	183.1	179.7	1.0188
4995	0.00	91.1	87.7	1.0383
4995	0.00	0.0	0.8	As found zero
4995	0.00	320.2	318.6	As found span
Average Correction Factor				1.0207

Calculated value of As Found Response: 319.0 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	2.5	ppb	2.4	ppb
Auto span	277.5	ppb	277.3	ppb

Notes: No adjustments or maintenance required.Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter O3
 Air Monitoring Network PASZA

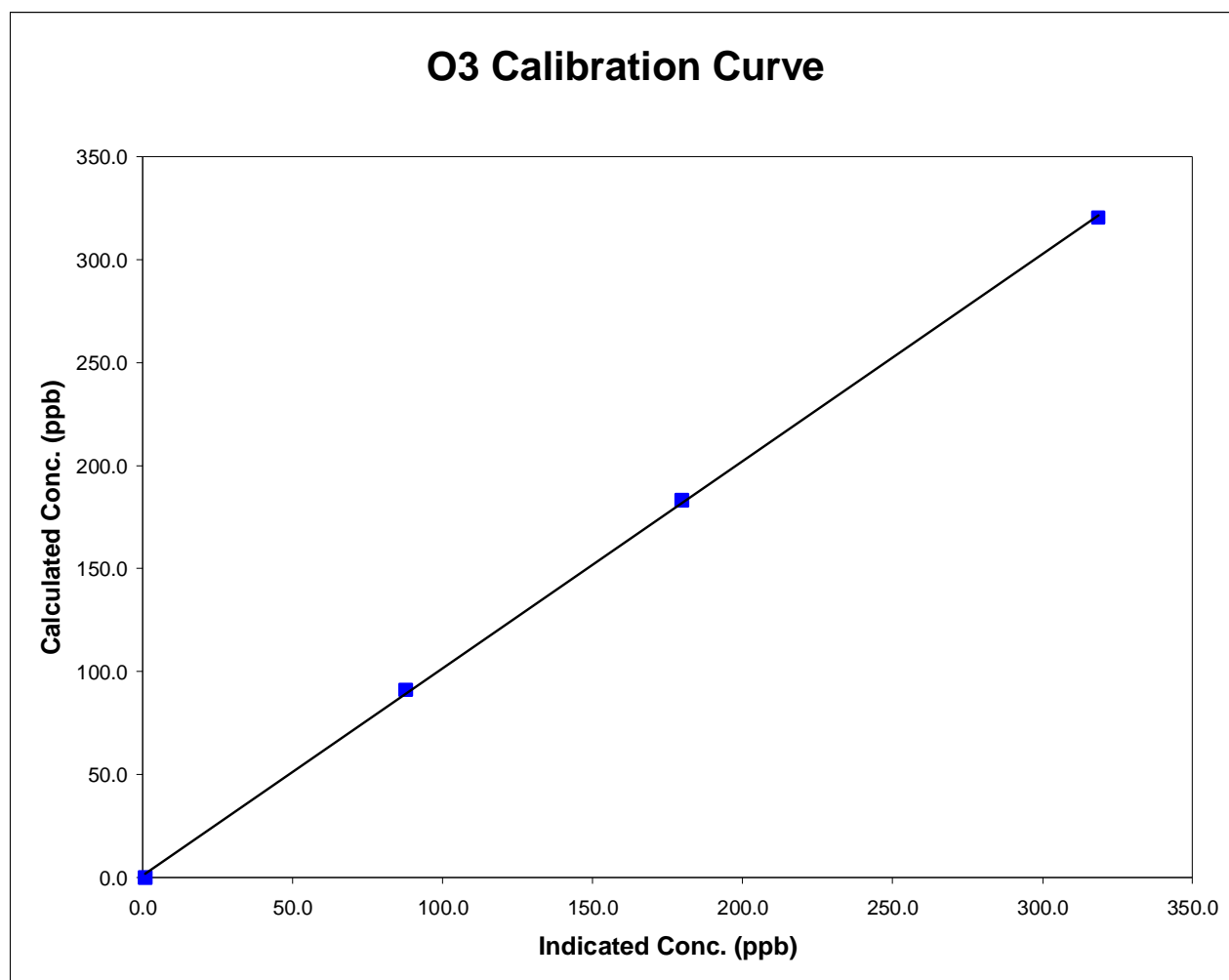


Station Information

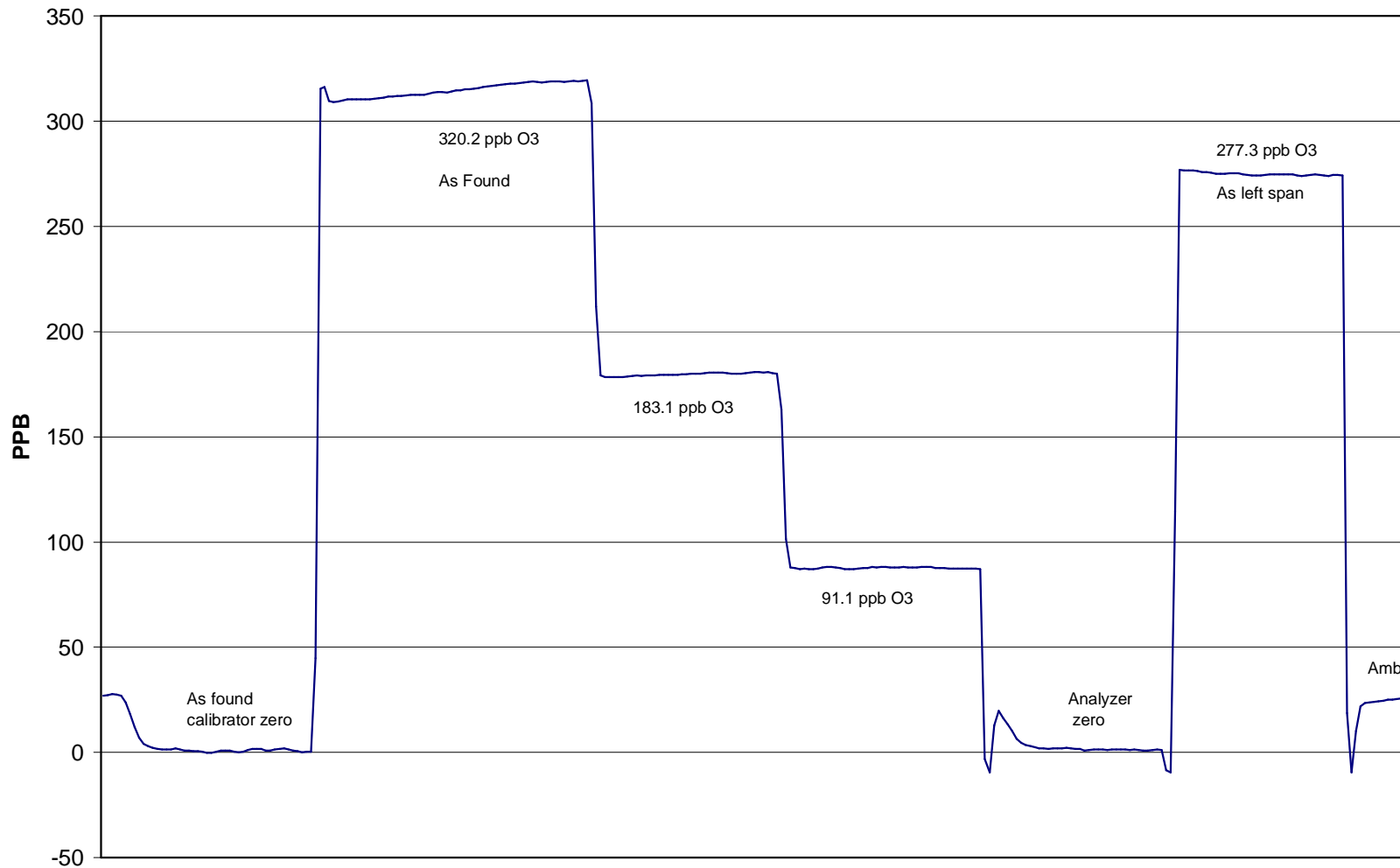
Calibration Date	<u> March 16, 2005 </u>	Previous Calibration	<u> February 24, 2005 </u>
Station Number	<u> 1 </u>	Station Location	<u> Muskoseepi Park </u>
Start Time (MST)	<u> 19:35 </u>	End Time (MST)	<u> 22:00 </u>
Analyzer make/model	<u> API Model 400 </u>	Analyzer serial #	<u> 383 </u>

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	NA		
320.2	318.6	1.0051	Correlation Coefficient	0.999823
183.1	179.7	1.0188		
91.1	87.7	1.0383		
			Slope	1.005522
			Intercept	1.085864



O3 Calibration



March 16, 2005

Calibration Report

Parameter CO
 Air Monitoring Network PASZA



Station Information

Calibration Date	March 16, 2005	Previous Calibration	February 24, 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)	9:40	End Time (MST)	12:30
Barometric Pressure	0.927 ATM	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	12/10/2005
		Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.004127	Calculated slope	1.001242
Calculated intercept	-0.174880	Calculated intercept	-0.211353
Analyzer make	TEI Model 48	Analyzer serial #	ACM-13989-143

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	769		750	
CO zero setting	523		523	
Sample pressure	691	mm Hg	691	mm Hg
Sample Flow	1.15	LPM	1.15	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.00	0.29	N/A
4993	39.97	23.82	24.04	0.9910
4993	19.96	11.95	12.11	0.9861
4993	9.97	5.98	6.10	0.9806
4993	0.00	0.00	0.29	As Found Zero
4993	39.97	23.82	24.25	As Found Span
Average Correction Factor				0.9859

Calculated value of As Found Response: 23.885 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	-0.04	ppm	0.18	ppm
Auto span	19.91	ppm	19.39	ppm

Notes: Small span adjustment performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter CO
 Air Monitoring Network PASZA

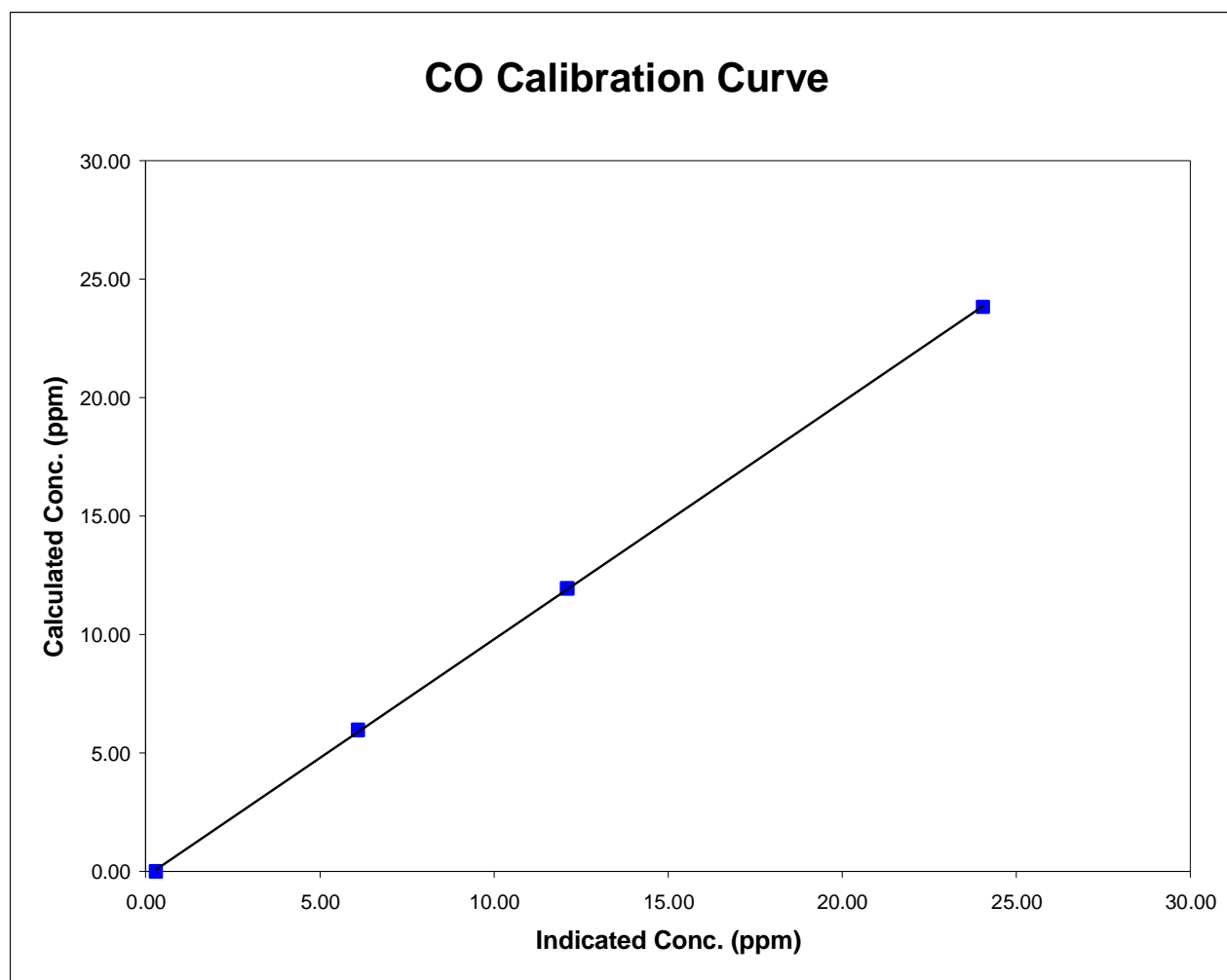


Station Information

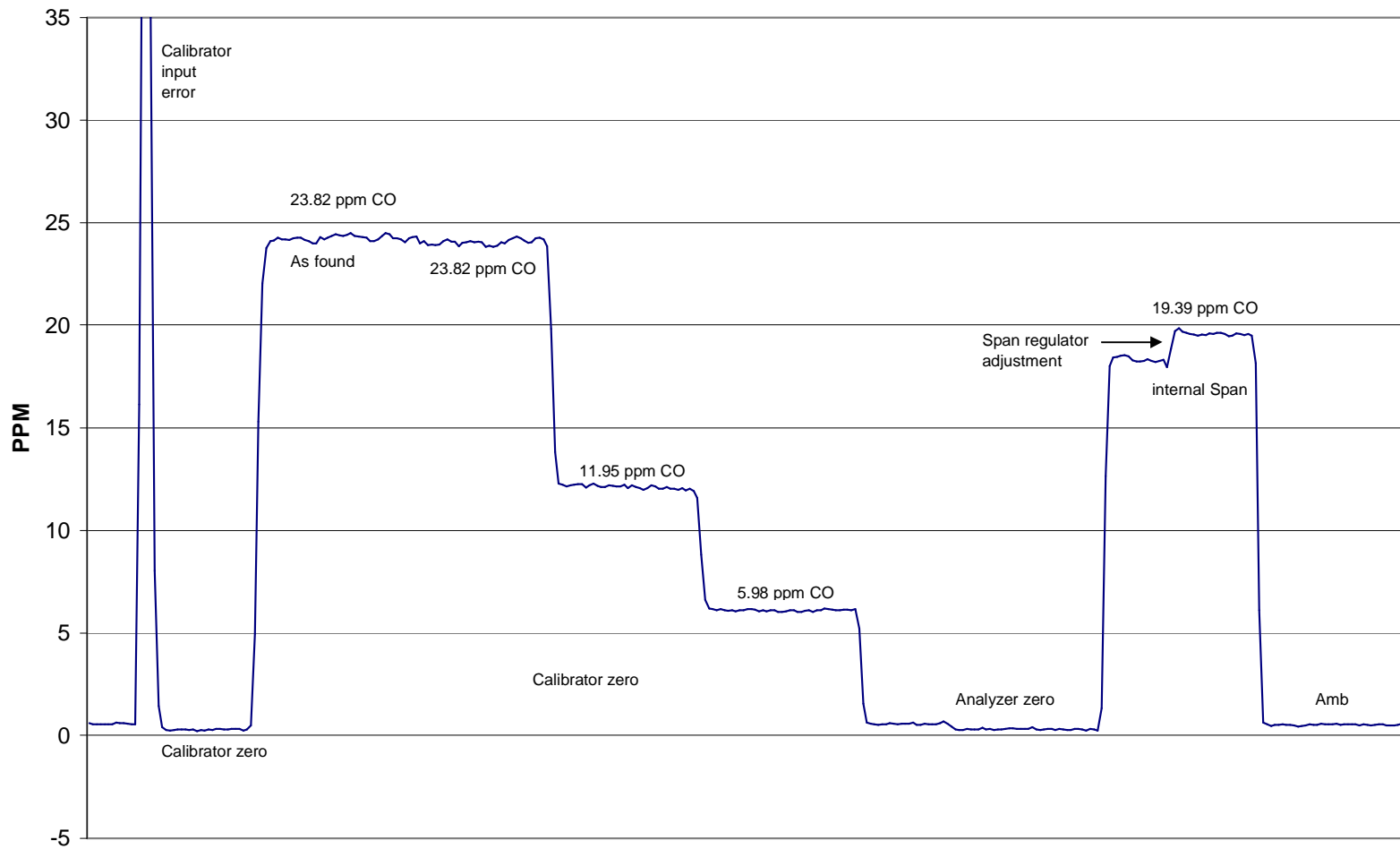
Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:40	End Time (MST)	12:30
Analyzer make/model	TEI Model 48	Analyzer serial #	ACM-13989-143

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.290	N/A		
23.825	24.041	0.9910	Correlation Coefficient	0.999950
11.945	12.113	0.9861		
5.978	6.097	0.9806	Slope	1.001242
			Intercept	-0.211353



CO Calibration



March 16, 2005

Calibration Report

Parameter THC
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	<u>March 16, 2005</u>	Previous Calibration	<u>February 24, 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>16:00</u>	End Time (MST)	<u>18:30</u>
Barometric Pressure	<u>0.922</u> ATM	Station Temperature	<u>21.0</u> Deg C
Calibrator	<u>Enviroics 6100</u>	Serial Number	<u>3016</u>
Cal Gas Concentration	<u>700 ppm CH4/ 299 ppm C3H8</u>	Cal Gas Expiry Date	<u>12/10/2005</u>
Cal Gas CH4 equiv	<u>1522.25</u> ppm	Cal Gas Cylinder #	<u>ALM 030358</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>
DACS slope	<u>0.005000</u>	DACS slope	<u>0.005000</u>
DACS intercept	<u>0.000000</u>	DACS intercept	<u>0.000000</u>
Calculated slope	<u>0.999937</u>	Calculated slope	<u>1.010942</u>
Calculated intercept	<u>-0.039304</u>	Calculated intercept	<u>0.092176</u>
Analyzer make	<u>TEI Model 51C-LT</u>	Analyzer serial #	<u>51CLT-79009-390</u>

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.11	psi	6.11	psi
THC span counts	6829	capture	6829	capture
THC zero counts	1259	capture	1259	capture

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.00	-0.08	N/A
4993	64.97	19.55	19.27	1.0145
4993	34.96	10.58	10.33	1.0245
4993	9.97	3.03	2.92	1.0387
4993	0.00	0.00	-0.08	As Found Zero
4993	64.97	19.55	19.27	As Found Span
Average Correction Factor				1.0259

Calculated value of As Found Response: 19.312 ppm Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	-0.05	ppm	0.01	ppm
Auto span	21.10	ppm	21.77	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

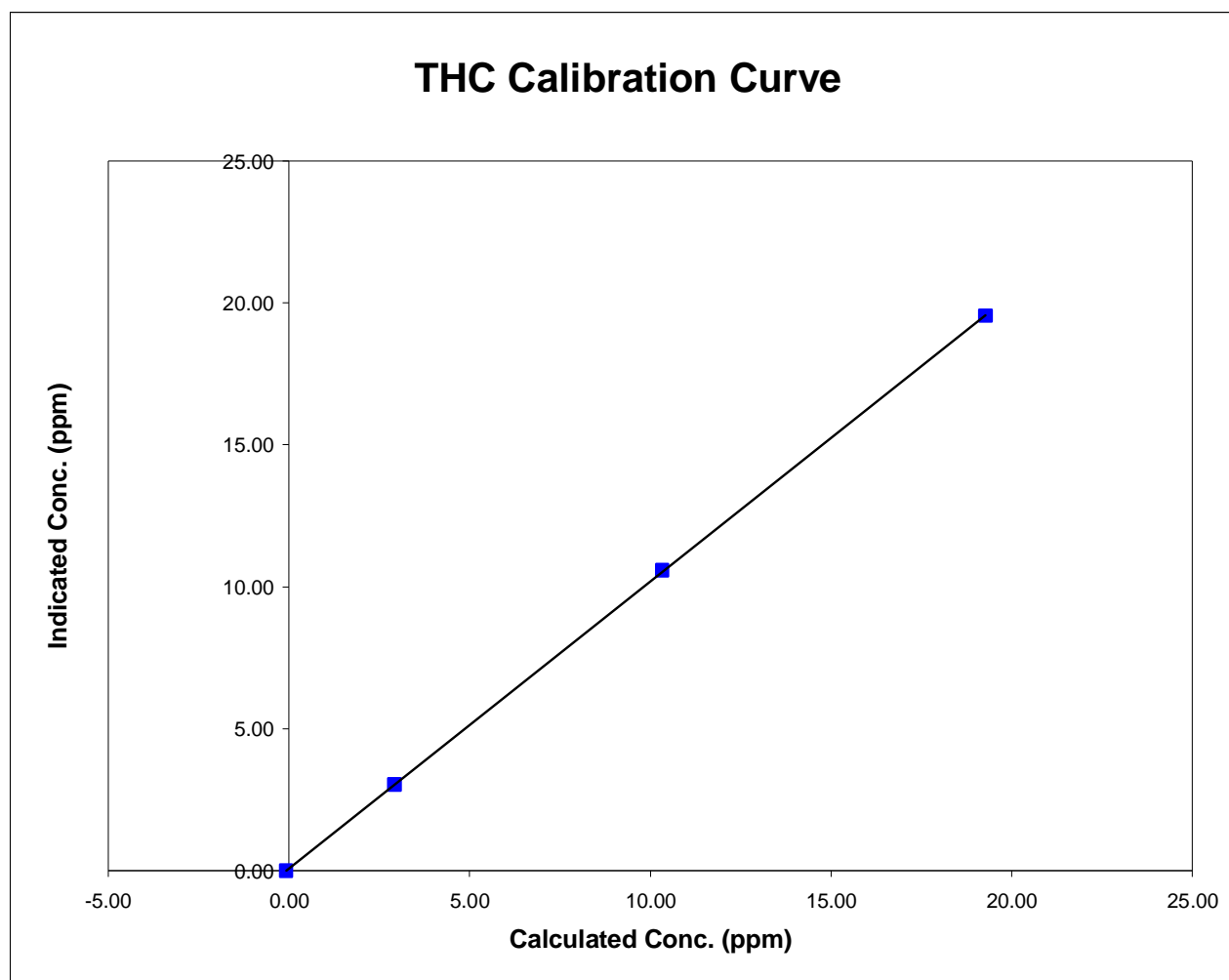


Station Information

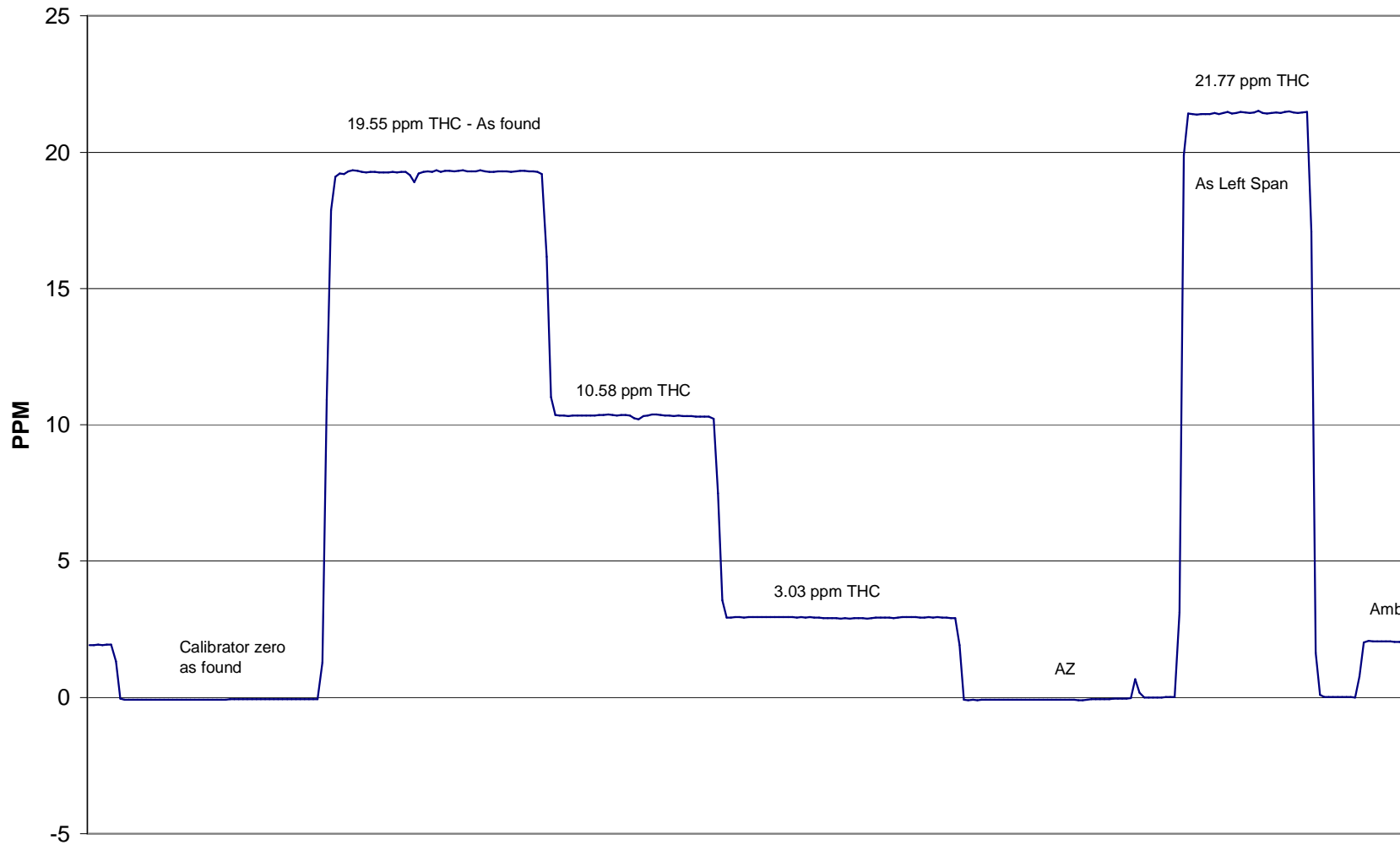
Calibration Date	March 16, 2005	Previous Calibration	February 24, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	16:00	End Time (MST)	18:30
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.079	N/A		
19.553	19.274	1.0145	Correlation Coefficient	0.999986
10.584	10.331	1.0245		
3.034	2.921	1.0387	Slope	1.010942
			Intercept	0.092176



THC Calibration



March 16, 2005

Calibration Report

Parameter TRS
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	March 16, 2005	Previous Calibration	February 23, 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)	14:20	End Time (MST)	20:30
Barometric Pressure	27.7 inches Hg	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	111-1695
Cal Gas Concentration	5.02 ppm	Cal Gas Expiry Date	11/22/2006
Gas Cert Reference	BLM003489		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.003178	Calculated slope	1.005441
Calculated intercept	-0.077414	Calculated intercept	0.381940
Analyzer make	TEI Model 43C	Analyzer serial #	3199000000491

	before		after	
Concentration range	0-100	ppb	0-100	ppb
TRS bkg	18.8		18.7	
TRS slope	1.359		1.111	
UV Lamp	822	V	873	V
Converter Temp	900	Deg C	900	Deg C
Perm Temp	45	Deg C	45	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.0	0.0	-0.2	N/A
4993	79.95	79.1	78.5	1.0077
4993	39.97	39.9	38.9	1.0259
4993	9.63	9.7	9.2	1.0477
4993	0.00	0.0	-0.2	As found zero
4993	79.95	79.1	76.9	As found span
Average Correction Factor				1.0271

Calculated value of As Found Response: 77.24 ppm Percent Change of As Found: 2.4%

	before calibration		after calibration	
Auto zero	0.5	ppm	0.3	ppm
Auto span	99.4	ppm	68.9	ppm

Notes: UV lamp value adjusted from 817 to 873 volts. Analyzer was zero and span adjusted.

Calibration Performed By: Kelly Baragar

Calibration Summary

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

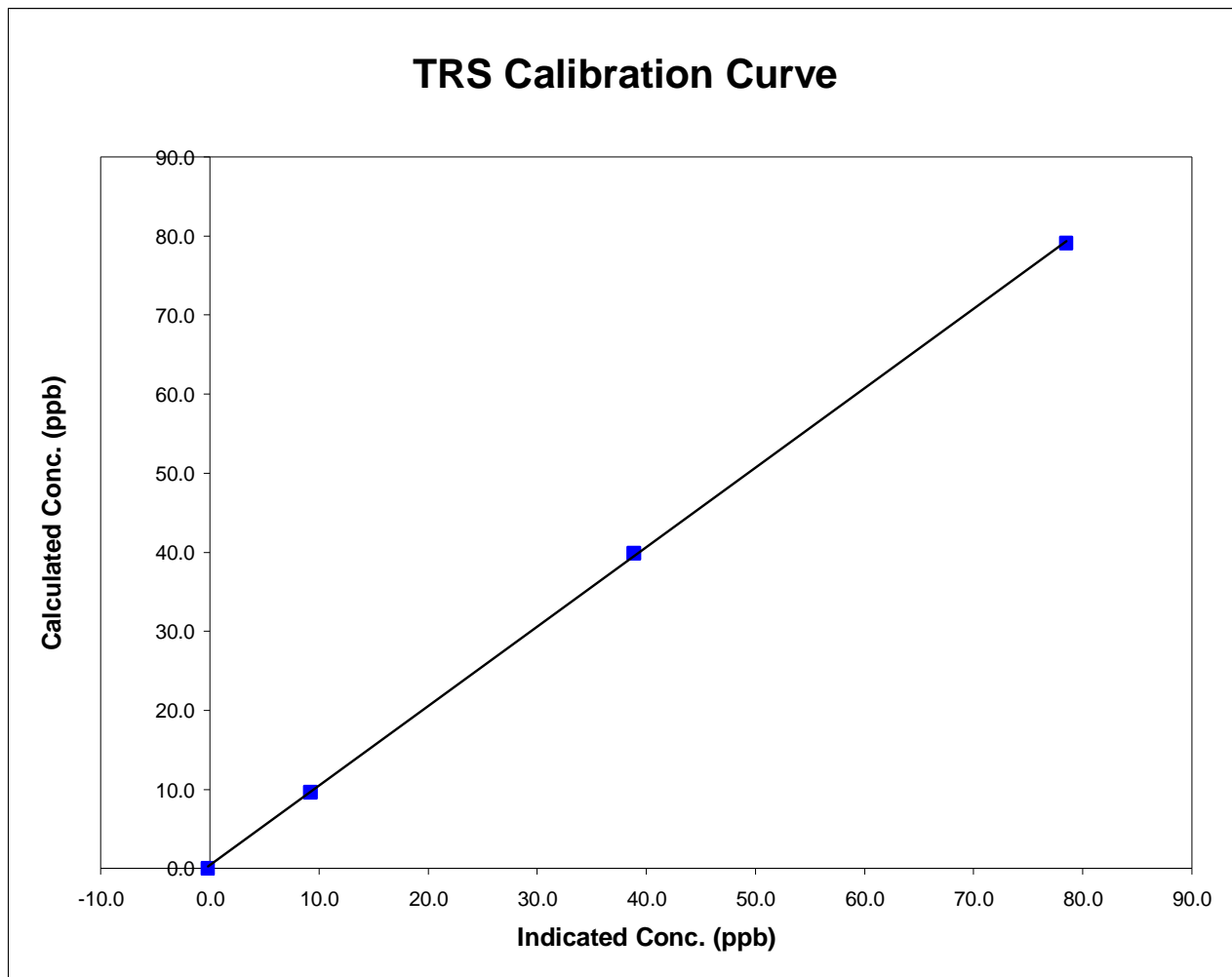


Station Information

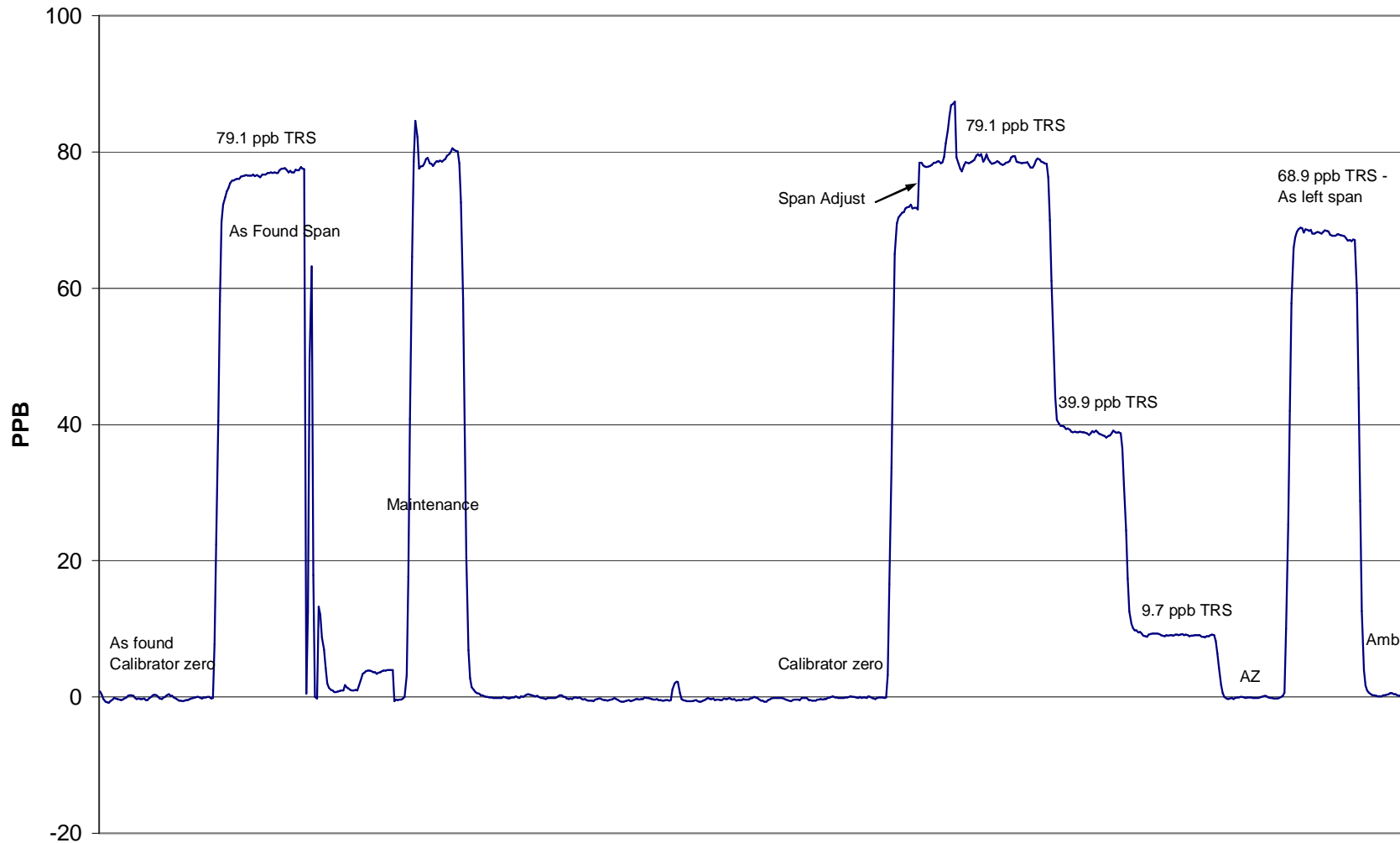
Calibration Date	March 16, 2005	Previous Calibration	February 23, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	14:20	End Time (MST)	20:30
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
79.1	78.5	1.0077	Correlation Coefficient	0.999932
39.9	38.9	1.0259		
9.7	9.2	1.0477		
			Slope	1.005441
			Intercept	0.381940



TRS Calibration



March 16, 2005

Calibration Report

Parameter PM2.5Air Monitoring Network PASZA

Station Information

Calibration Date	<u>March 16, 2005</u>	Previous Calibration	<u>February 24, 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>16:25</u>	End Time (MST)	<u>17:15</u>
Barometric Pressure	<u>0.922</u> ATM	Station Temperature	<u>21.5</u> Deg C
Flow Calibrator	<u>BIOS Drycal DCL-MH</u>	Serial Number	<u>101780</u>
DACS make	<u>AP 1000</u>	DACS serial No.	<u>45269</u>
DACS voltage range	<u>0 - 1 V</u>	DACS channel #	<u>15</u>
	<u>Before</u>		<u>After</u>
DACS slope	<u>0.050000</u>	DACS slope	<u>0.050000</u>
DACS intercept	<u>-50.000000</u>	DACS intercept	<u>-50.000000</u>

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	37	%	37	%
Ko Factor	12122		12122	
Temperature	-4.1	Deg C	-4.1	Deg C
Pressure	0.919	ATM	0.919	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.09
zero flow - auxillary	0.0	0.00		-0.09
flow recovery - main	45 - 60 Seconds	NA	45 - 60 Seconds	NA
flow recovery - aux	46 - 60 Seconds	NA	46 - 60 Seconds	NA
Temperature	measured	-3.8	+/- 1.0 Deg C	4.1
Pressure	measured	0.922	+/- 1.5% ΔATM	0.919
Total Flow	16.67 SLPM	16.70		16.70
Main Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.70
Auxillary Flow	3.0 SLPM	3.030	+/- 0.2 SLPM	3.030
Leak Check - main	0.0	0.00	<0.15 SLPM	0.09
Leak Check - aux	0.0	0.00	<0.15 SLPM	-0.09
Ko Factor (w/o filter)	measured	NA	filter weight (g)	0.11112
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Flow audit and leak check performed. All parameters appear to be within specifications.
Installed connector inside station to replace rubber connector.

Calibration Performed By: Kelly Baragar

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

Calibration Date	March 8, 2005	Previous Calibration	February 2, 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)	13:15	End Time (MST)	18:35
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,452 ng/min	Perm-tube Expiry Date	
Correction factor	0.930606	Perm-tube Cert #	19-18743
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope		Calculated slope	1.008690
Calculated intercept		Calculated intercept	-8.490468
Analyzer make	API 100	Analyzer serial #	32

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	539	ccm	539	ccm
UV Lamp Voltage	3460	mv	3460	mv
Lamp Ratio	98	%	98	%
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	8.83		N/A	
Intercept	223		N/A	

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	2493.1	0.0	-0.7	N/A
2679	2493.1	375.4	375.1	1.0009
6128	5702.8	164.1	180.0	0.9119
15060	14014.9	66.8	80.4	0.8304
zero	2493.1	0.0	-11.4	As Found Zero
2679	2493.1	375.4	401.5	As Found Span
Average Correction Factor				0.9144

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	-11.4	ppm	-7.0	ppm
Auto span	56.8	ppm	56.1	ppm

Notes: Factory calibration should be performed on this analyzer next monthCalibration Performed By: Gary Cross

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

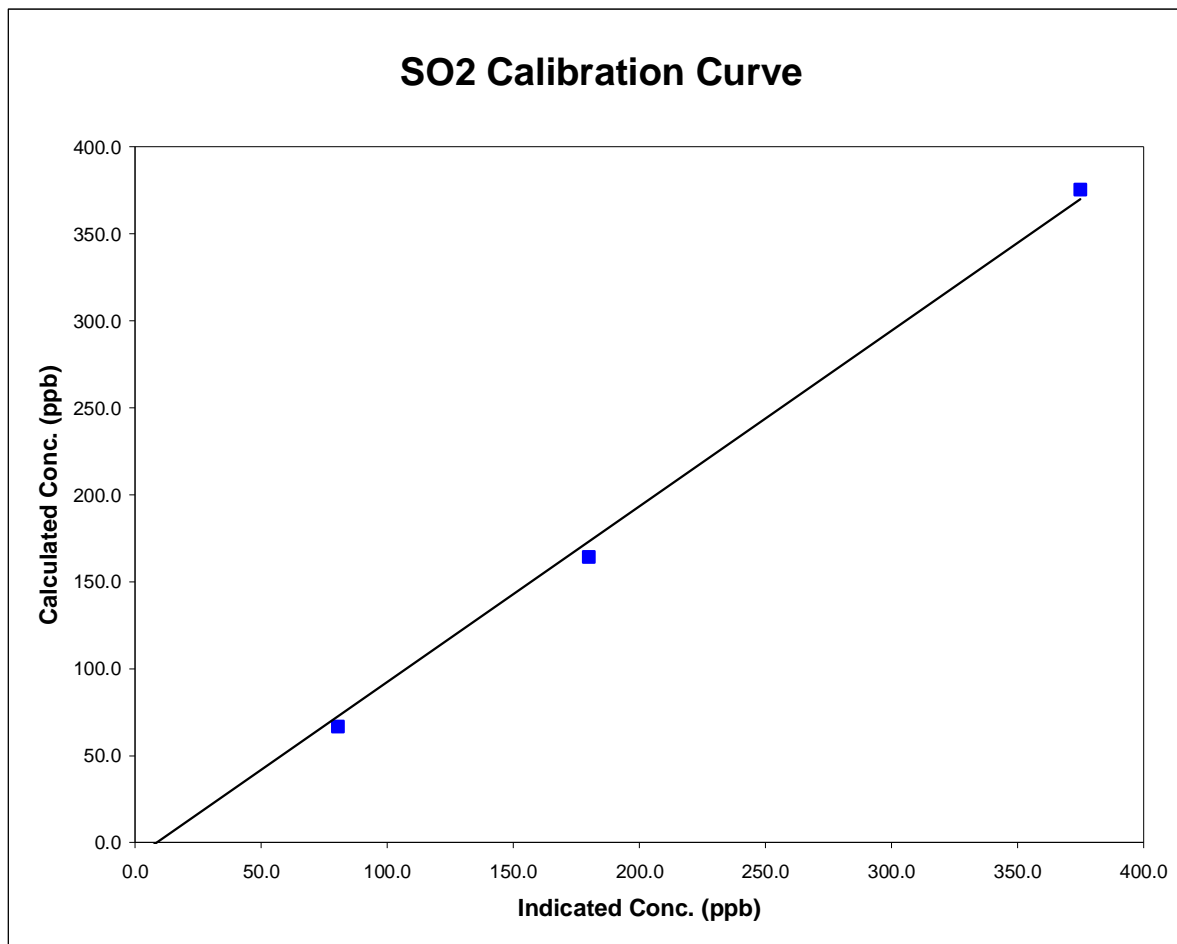


Station Information

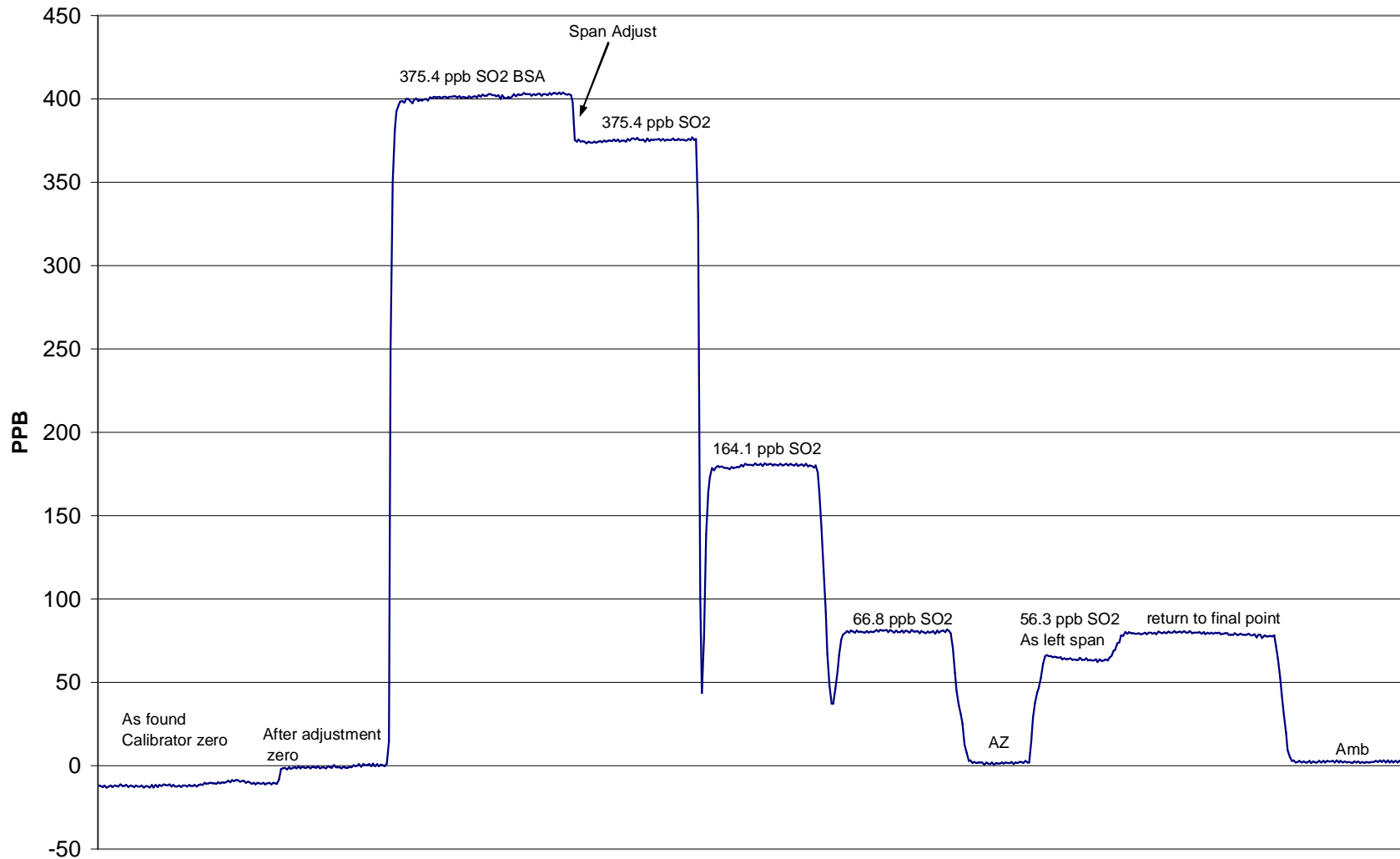
Calibration Date	March 8, 2005	Previous Calibration	February 2, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	13:15	End Time (MST)	18:35
Analyzer make/model	API 100	Analyzer serial #	32

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
375.4	375.1	1.0009	Correlation Coefficient	0.997143
164.1	180.0	0.9119		
66.8	80.4	0.8304		
			Slope	1.008690
			Intercept	-8.490468

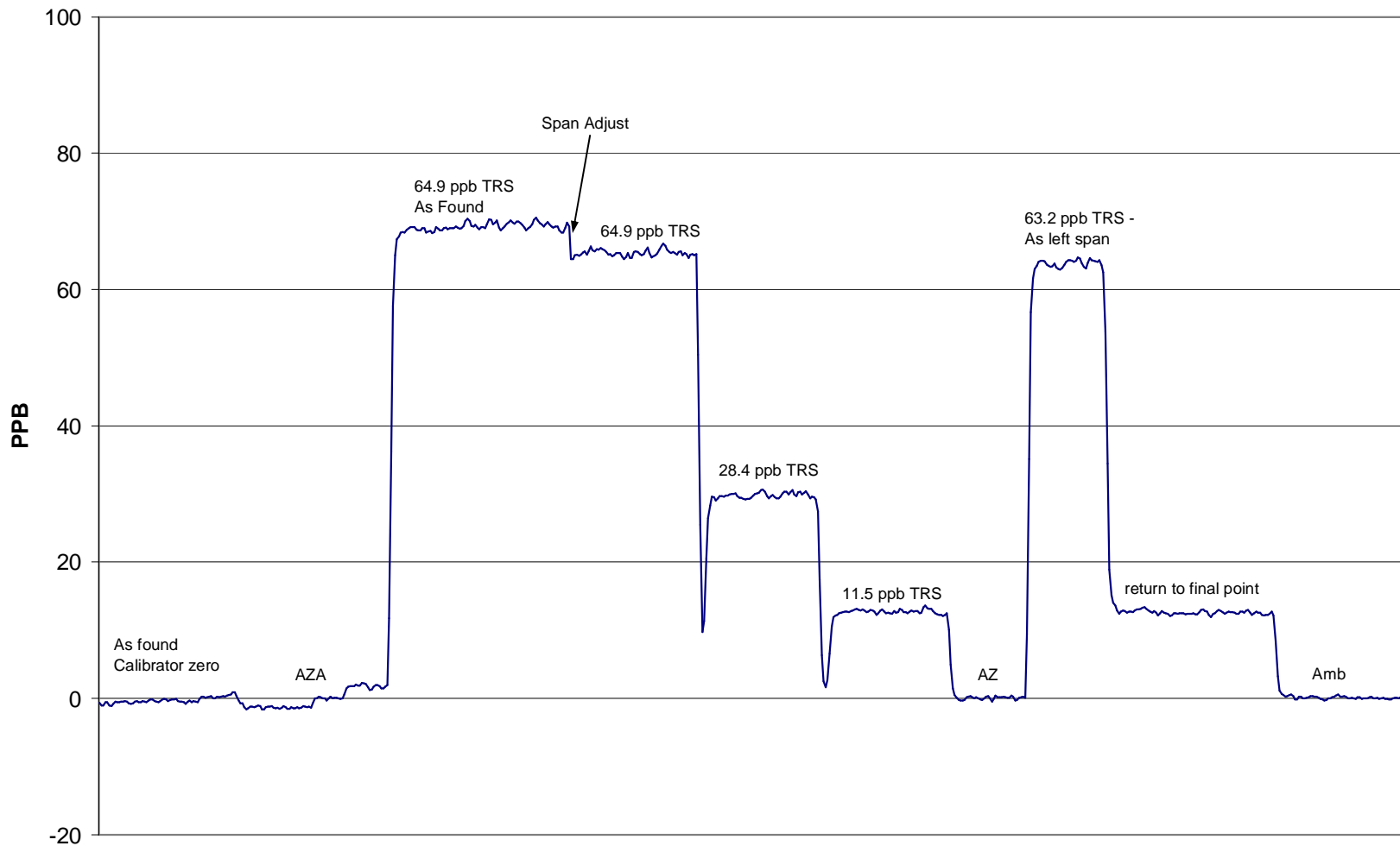


SO2 Calibration



March 8, 2005

TRS Calibration



March 8, 2005

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

Calibration Date	March 9, 2005	Previous Calibration	N/A
Station Number	3	Station Location	Smoky Heights School
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:30	End Time (MST)	20:00
Barometric Pressure	27.7 inches Hg	Station Temperature	22.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,452 ng/min	Perm-tube Expiry Date	
Correction factor	0.935217	Perm-tube Cert #	19-18743
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	n/a	Calculated slope	0.993982
Calculated intercept	n/a	Calculated intercept	2.394142
Analyzer make	API 100A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	547	ccm	547	ccm
UV Lamp Voltage	1175	mv	1175	mv
Lamp Ratio	34	%	34	%
Rx Cell Temp	50.5	Deg C	50.5	Deg C
PMT Temp	7.2	Deg C	7.2	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	0.827		n/a	
Offset	20		n/a	

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	2347.4	0.0	-5.5	N/A
2510	2347.4	398.7	397.6	1.0028
6128	5731.0	163.3	163.4	0.9994
14920	13953.4	67.1	67.8	0.9890
zero	2347.4	0.0	-5.5	As Found Zero
2510	2347.4	398.7	393.2	As Found Span
Average Correction Factor				0.9971

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	n/a	ppm	0.2	ppm
Auto span	n/a	ppm	247.2	ppm

Notes: zero voltage output is slightly negative. Factory cal will have to be performed next monthCalibration Performed By: Gary Cross

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

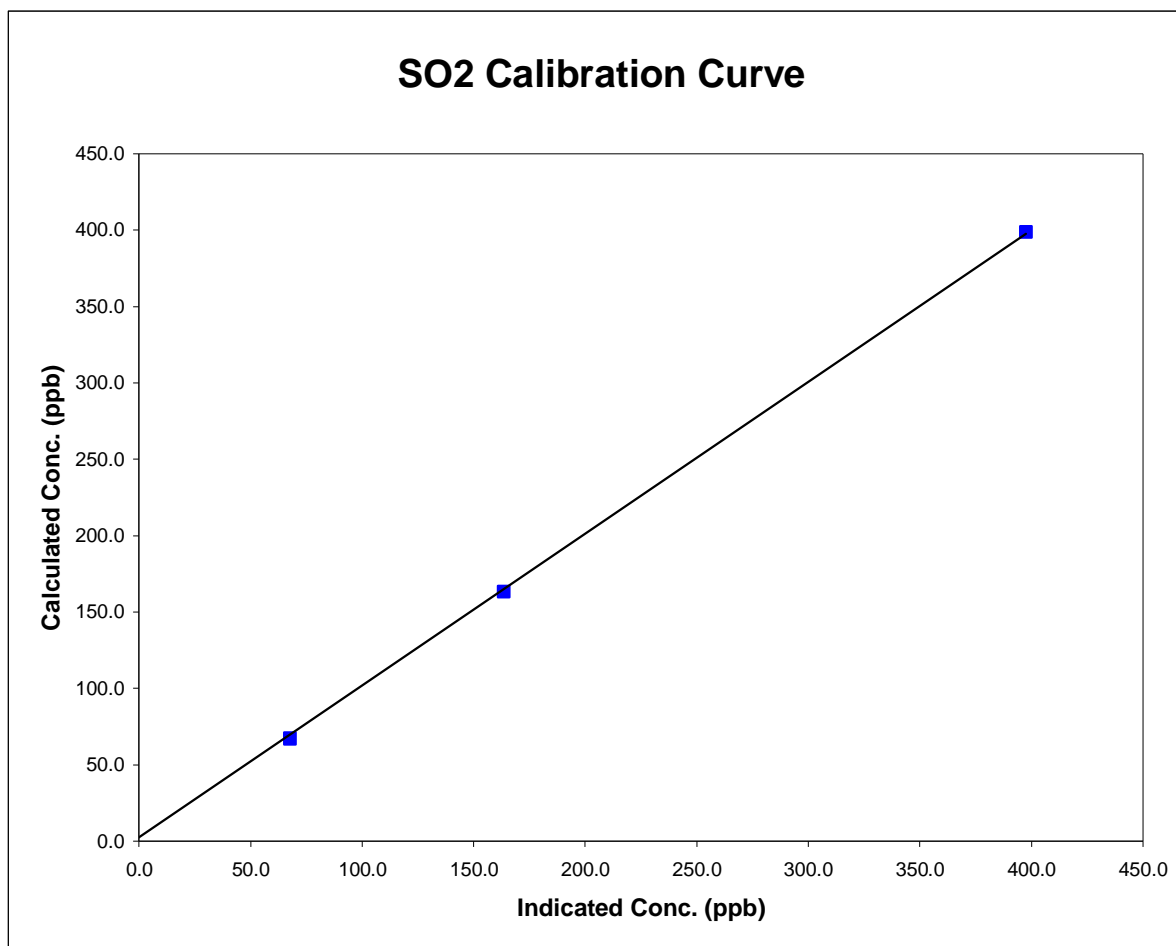


Station Information

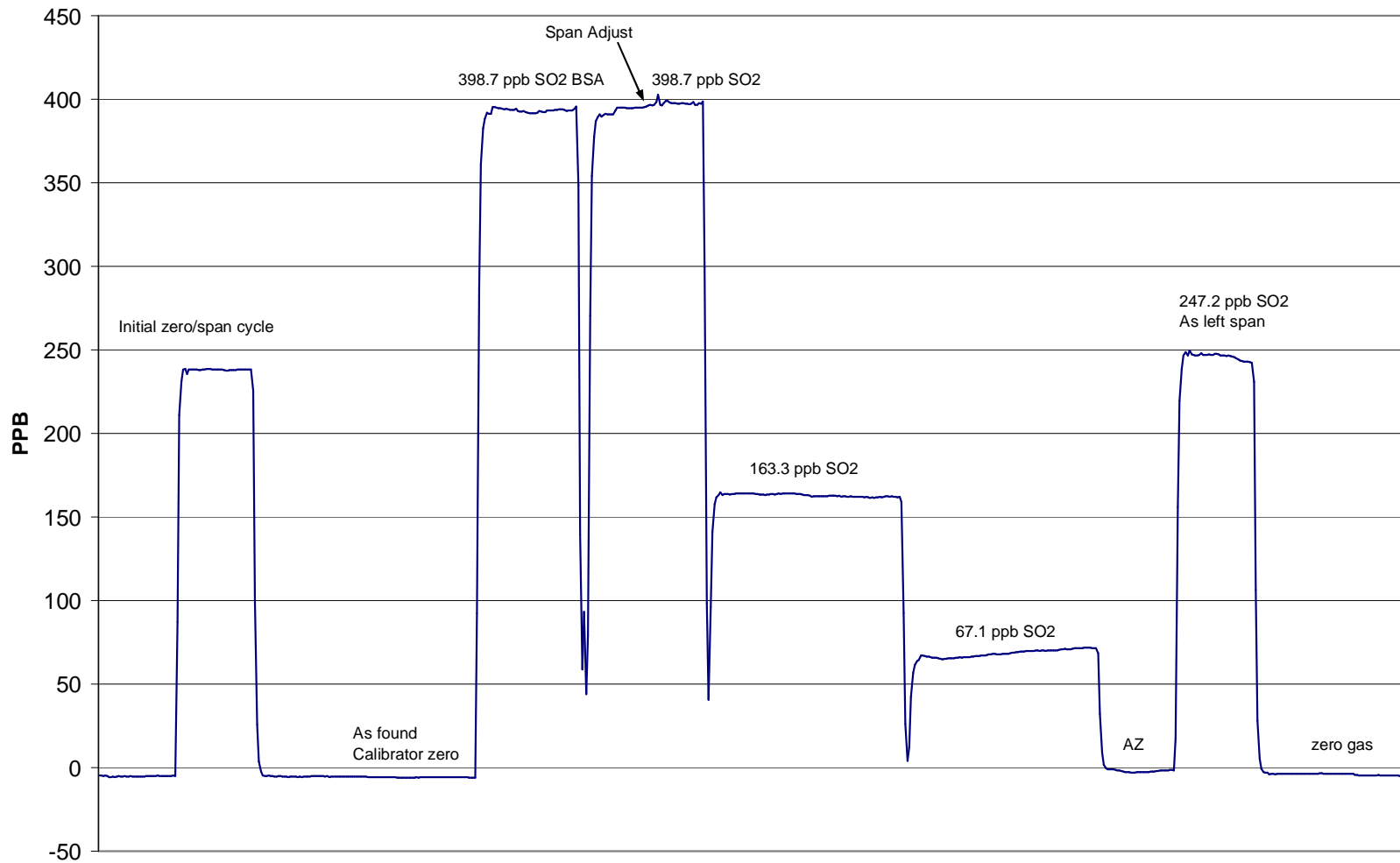
Calibration Date	March 9, 2005	Previous Calibration	N/A
Station Number	3	Station Location	Smoky Heights School
Start Time (MST)	14:30	End Time (MST)	20:00
Analyzer make/model	API 100A	Analyzer serial #	212

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-5.5	N/A		
398.7	397.6	1.0028	Correlation Coefficient	0.999773
163.3	163.4	0.9994		
67.1	67.8	0.9890	Slope	0.993982
			Intercept	2.394142

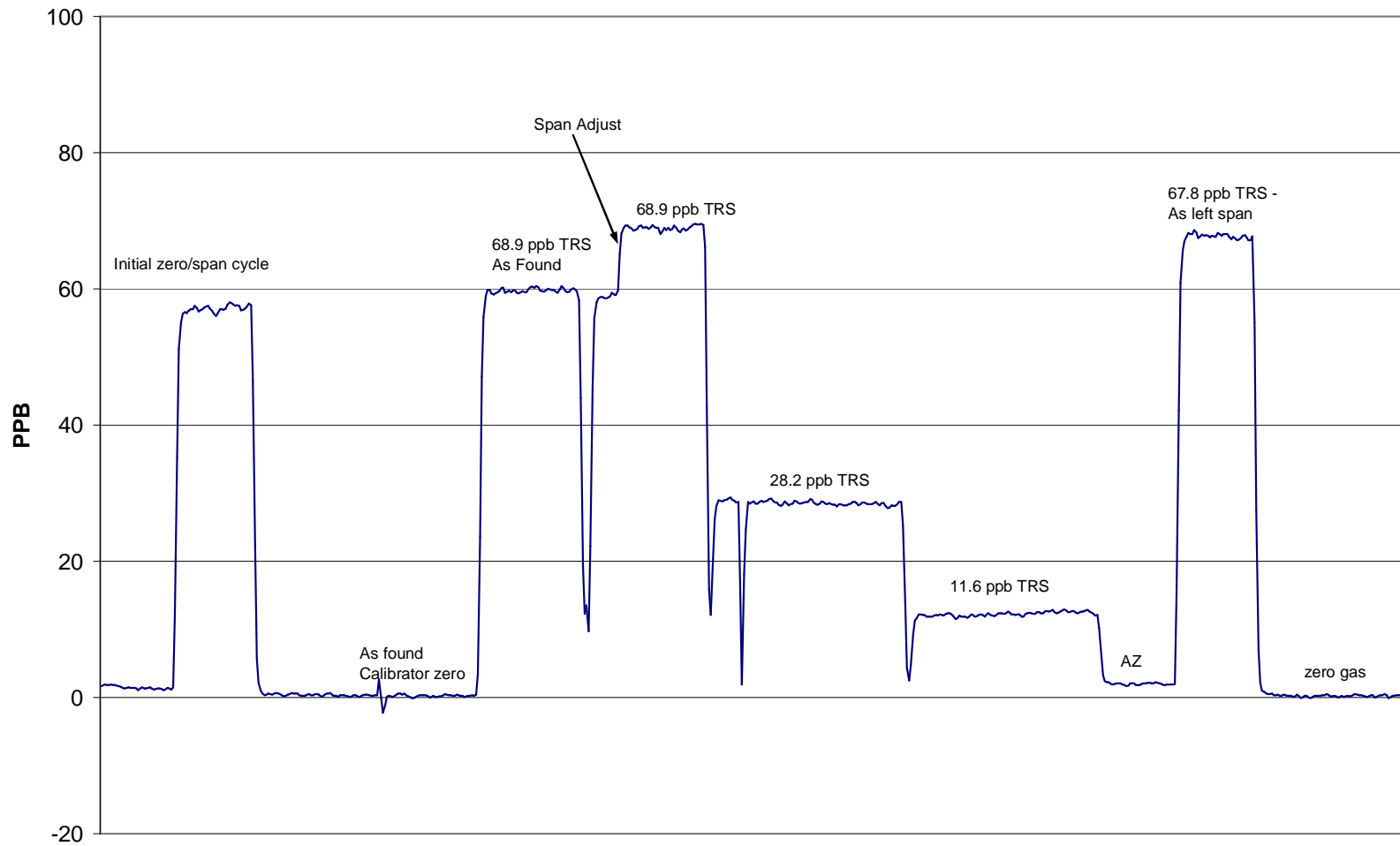


SO2 Calibration



March 9, 2005

TRS Calibration



March 9, 2005

