



Palliser Airshed Society

Ambient Air Monitoring Network Summary

April 2005

Prepared By:
FOCUS
AIR QUALITY MONITORING

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Palliser Airshed Society

May 26, 2005

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

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – April 2005

Enclosed is the PAS Ambient Monitoring Report for the month of **April 2005**.

Please note that this report has been prepared in partial fulfillment of the City of Medicine Hat's air monitoring requirement as well as all members of the Palliser Airshed Society.

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. Operational time of all instruments was above 95% uptime for the month of April. There were no significant events leading to emergency response for the month of April.

The following is a summary of the monthly averages recorded during sampling:

- Monthly average concentrations of NO₂ was 6.8 ppb
- Monthly average concentrations for O₃ was 32.8 ppb
- Monthly average concentrations for THC was 1.96 ppm
- Monthly average concentrations for CO was 0.24 ppm
- Monthly average concentrations for PM_{2.5} was 2.7 µg/m³

Passive Monitoring – Six Stations throughout the PAS zone:

The following are the ranges for April 2005 recorded by the six passive stations located throughout the PAS zone:

- Monthly average concentrations for SO₂ passives ranged from 0.5 ppb to 0.7 ppb
- Monthly average concentrations for NO₂ passives ranged from 5.4 ppb to 9.5 ppb
- Monthly average concentrations for O₃ passives ranged from 19.1 ppb to 27.4 ppb

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

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AQM Technical Manager

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



April 2005 Monthly Overall Summary Report

Ambient Air Quality Data

Apr-2005		Palliser Airshed Society					Maximum Recorded Values							
							Exceedence			Conc	Day	WSPD (km/hr)	WDIR (Sector)	
Pollutant (units)	Guidelines	Station	Monthly Average	1-hr	24-hr									Operational Time (%)
NO (ppb)		Crescent Heights	2.5	0	0	66.0	Apr-25	2.1	SW	10.1	Apr-25		99.9%	
NO ₂ (ppb)	212	106	Crescent Heights	6.8	0	0	33.7	Apr-06	4.0	SSE	12.4	Apr-25	99.9%	
NO _x (ppb)			Crescent Heights	9.1	0	0	89.3	Apr-25	2.1	SW	22.3	Apr-25	99.9%	
O ₃ (ppb)	82		Crescent Heights	32.8	0	0	58.2	Apr-05	13.8	WSW	40.4	Apr-26	100.0%	
CO (ppm)	13		Crescent Heights	0.24	0	0	1.20	Apr-11	1.7	S	0.35	Apr-30	99.7%	
THC (ppm)			Crescent Heights	1.96	0	0	2.96	Apr-25	1.0	Calm	2.16	Apr-05	100.0%	
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.7	0	0	21.4	Apr-20	1.6	N	5.1	Apr-05	95.8%	
RH (%)			Crescent Heights	51.0									100.0%	
SR (W/m ²)			Crescent Heights	201.0									100.0%	
Temp (°C)			Crescent Heights	8.7									100.0%	
WSPD v (km/hr)			Crescent Heights	4.5									100.0%	
WSPD s (km/hr)			Crescent Heights	12.1									100.0%	
WDIR (Deg)			Crescent Heights	WNW*									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



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

No general issues to report

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational problems observed
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational problems observed
Total Hydrocarbons	Bendix	400A	ppm	No operational problems observed
Carbon Monoxide	TEI	49C	ppm	The analyzer was installed late in March. Due to routine maintenance during the monthly calibration operational time dropped to 99.7%
PM 2.5	R&P TEOM	1400ab	µg/m³	Intermittent flow problems resulted in 28 hours of excessive drift from April 25 to 28. The filter was changed on the 28, and all systems checked. All parameters were within specifications.
Wind Speed	Met One	010C	kph	No operational problems observed
Wind Direction	Met One	020C	Deg	No operational problems observed
Ambient Temperature	Met One	083D	DegC	No operational problems observed
Relative Humidity	Met One	083D	%	No operational problems observed
Solar Radiation	Met One	096-1	W/m²	Slight baseline drift indicates a value of -1 during the night time periods.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed



PAS - Crescent Heights AQI Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Air Quality Index (AQI)

Number of 1-hr Good Readings:	660
Number of 1-hr Fair Readings:	19
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Percentile	99	95	75	50	25	5	1
	27.3	24.6	21.3	17.0	12.7	6.1	4.8

Status Flag Characters

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

Alberta's Air Quality Index

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

Day Mountain Standard Time



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	34 ppb
Maximum 24-hr Average:	12 ppb

6-Apr 21:00 22:00
25-Apr

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

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

AIC Time:	33 hrs	Operational Time:	682 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%					
Percentile	99 27	95 20	75 9	50 5	25 3	5 1	1 0	Average 6.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 1:00	0:00 2:00	1:00 3:00	2:00 4:00	3:00 5:00	4:00 6:00	5:00 7:00	6:00 8:00	7:00 9:00	8:00 10:00	9:00 11:00	10:00 12:00	11:00 13:00	12:00 14:00	13:00 15:00	14:00 16:00	15:00 17:00	16:00 18:00	17:00 19:00	18:00 20:00	19:00 21:00	20:00 22:00	21:00 23:00	22:00 0:00		
1-Apr-05	4	6	7	4	3	3	3	4	4	3	2	2	4	5	A	8	5	2	4	3	3	2	2	3	3.8	8.0
2-Apr-05	10	7	2	3	5	8	17	5	4	2	2	6	2	A	5	4	4	4	7	7	5	17	11	3	6.0	17.4
3-Apr-05	8	6	8	9	6	12	18	17	4	1	0	0	A	4	4	3	1	1	1	1	2	4	2	1	5.0	18.3
4-Apr-05	7	11	4	5	5	6	10	9	4	5	2	A	5	4	3	3	3	3	5	10	20	17	8	13	7.0	19.8
5-Apr-05	12	9	13	7	9	12	10	15	9	4	A	C	C	C	C	A	M	5	8	16	A	17	9	7	N	17.0
6-Apr-05	9	6	A	7	9	12	22	19	7	5	6	4	2	3	3	8	9	7	15	17	26	34	27	12	11.7	33.7
7-Apr-05	22	A	17	13	11	13	17	14	15	11	8	4	5	2	3	3	3	6	27	25	17	8	15	20	12.2	26.9
8-Apr-05	A	9	5	6	6	10	15	21	6	3	6	7	4	6	5	12	7	10	17	14	10	10	10	A	9.1	21.0
9-Apr-05	9	7	4	4	5	12	9	15	6	5	6	3	2	2	1	3	3	4	4	5	11	12	A	7	6.0	14.8
10-Apr-05	7	6	7	4	5	6	5	4	4	5	3	2	3	2	2	2	2	2	5	11	14	A	28	15	6.2	27.5
11-Apr-05	17	20	20	19	24	23	22	29	10	2	2	3	3	4	3	5	4	4	5	26	A	12	5	7	11.7	29.4
12-Apr-05	7	9	9	5	11	24	22	20	7	5	1	0	0	1	6	8	8	3	5	A	11	4	4	5	7.5	23.8
13-Apr-05	9	13	7	12	16	20	22	26	18	7	7	2	2	2	1	2	3	A	7	6	6	12	7	9.1	25.9	
14-Apr-05	2	11	4	2	6	7	2	3	2	3	3	3	5	6	8	6	4	A	12	11	9	6	10	4	5.7	12.5
15-Apr-05	3	2	2	1	1	2	3	4	3	5	8	5	2	3	4	6	A	6	5	6	6	5	5	3.9	7.8	
16-Apr-05	3	3	5	3	10	6	10	14	3	1	1	2	1	1	1	A	6	4	4	9	13	9	6	10	5.5	14.3
17-Apr-05	7	4	4	3	4	7	6	9	9	6	3	2	4	2	A	5	3	2	2	3	4	4	4	3	4.4	9.3
18-Apr-05	6	6	5	4	11	17	21	16	3	3	2	2	1	A	5	2	2	2	2	4	12	11	6	6	6.5	21.3
19-Apr-05	7	11	15	22	11	14	13	13	15	10	1	0	A	3	2	1	1	1	1	4	6	11	7	12	7.9	22.3
20-Apr-05	12	20	12	17	20	28	18	19	21	15	6	A	4	2	2	1	1	2	9	14	4	3	2	5	10.3	27.5
21-Apr-05	3	4	3	4	10	8	9	6	4	4	A	7	3	3	2	2	1	3	3	3	7	9	4	4.6	10.5	
22-Apr-05	7	11	11	8	16	18	11	11	4	A	6	3	2	3	3	4	3	4	6	13	11	4	12	7.6	17.9	
23-Apr-05	3	4	6	6	1	1	3	2	A	4	2	1	1	1	1	1	1	1	1	3	4	5	16	21	3.8	20.5
24-Apr-05	10	17	29	21	10	13	14	A	9	4	1	1	0	0	0	1	1	1	1	2	5	10	9	24	8.0	28.9
25-Apr-05	29	25	24	24	21	20	A	23	24	11	5	2	3	3	4	3	3	2	4	8	10	13	16	8	12.4	29.3
26-Apr-05	7	6	7	7	3	A	8	4	2	3	2	2	1	1	2	2	4	4	2	2	1	1	3	1	3.3	8.0
27-Apr-05	4	3	1	2	A	5	4	3	2	1	2	2	2	3	2	2	2	2	2	3	3	2	5	8	2.7	7.8
28-Apr-05	20	11	8	A	7	7	8	4	2	2	4	2	3	3	4	3	4	4	6	5	10	6	5	5.7	19.9	
29-Apr-05	2	2	A	16	15	14	14	7	3	3	3	2	3	4	3	4	4	5	5	4	4	2	4	5.4	16.0	
30-Apr-05	2	A	5	3	2	3	3	2	2	2	2	2	2	2	3	3	2	3	3	4	3	2	2	2.6	5.5	

Hourly Avg	8.5	8.9	8.7	8.3	9.0	11.4	11.7	11.7	7.1	4.7	3.5	2.6	2.6	2.8	3.1	3.7	3.2	5.9	8.3	8.1	8.6	8.9	7.8	
Hourly Max	29.3	25.5	28.9	23.6	23.6	27.5	21.9	29.4	24.4	15.1	8.2	7.1	5.3	6.4	8.1	11.7	9.0	9.6	26.9	25.8	25.7	33.7	27.5	23.7

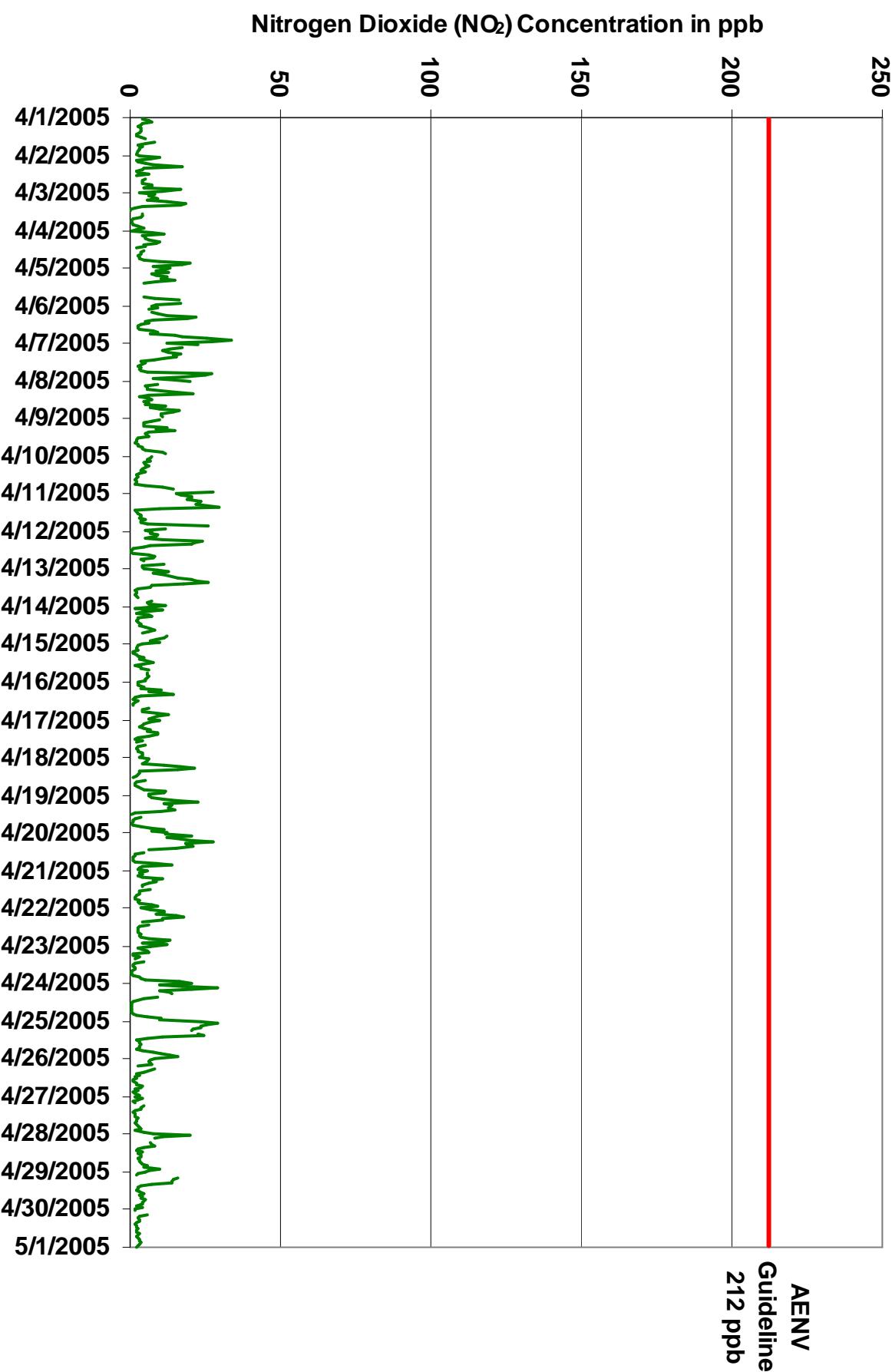


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Nitrogen Dioxide (NO₂)**

Station Owner: PAS

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

Maximum 1-hr Value:	77.9	ppb	1-Apr	2:00 3:00
Maximum 24-hr Value:	25.9	ppb	11-Apr	

AIC Time:	33 hrs	Operational Time:	682 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%					
Percentile	99 55	95 38	75 22	50 11	25 5	5 2	1 1	Average 15.0 ppb

Status Flag Characters

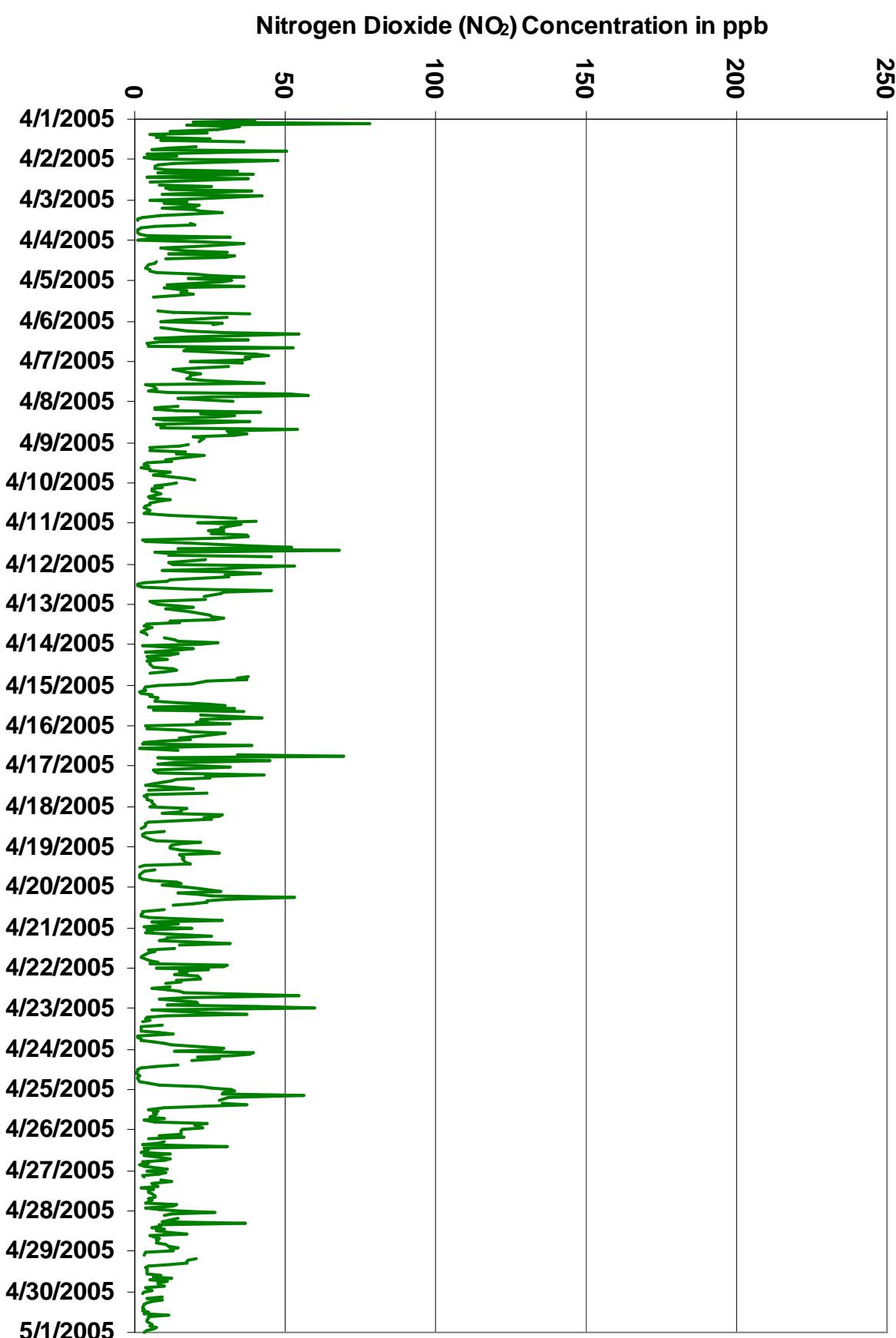
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

	Hour Start 0:00	1:00	2:00	3:00	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	
	Hour End 1:00																										
1-Apr-05	40	19	78	17	35	28	12	24	5	10	7	25	9	36	A	20	11	6	51	24	4	14	3	6	21.0	77.9	
2-Apr-05	48	13	8	7	6	10	34	8	39	17	4	38	5	A	8	25	10	12	39	21	9	42	21	5	18.6	47.7	
3-Apr-05	17	10	21	20	9	20	22	29	9	3	1	1	A	18	20	7	2	1	1	2	4	32	5	1	11.0	31.5	
4-Apr-05	20	36	29	20	9	17	30	11	33	30	10	A	7	7	5	4	5	5	7	20	25	36	18	32	18.2	36.2	
5-Apr-05	29	11	36	10	14	17	16	19	13	6	A	C	C	C	C	A	M	7	13	38	A	30	14	9	N	38.3	
6-Apr-05	29	26	A	9	14	18	29	55	18	7	38	8	4	4	4	52	17	16	40	44	37	38	36	18	24.4	54.6	
7-Apr-05	35	A	31	22	13	17	22	19	18	17	22	31	43	4	6	7	4	11	52	57	25	14	24	33	23.0	57.5	
8-Apr-05	A	14	6	7	14	42	22	33	27	6	10	38	7	10	9	54	31	31	37	33	19	23	21	A	22.5	54.3	
9-Apr-05	18	15	5	6	5	17	14	23	14	10	12	4	3	5	2	5	5	12	6	11	18	20	A	14	10.5	22.8	
10-Apr-05	11	6	9	6	6	9	6	5	5	12	8	5	5	4	3	5	4	3	12	23	34	A	41	21	10.5	40.5	
11-Apr-05	35	29	29	25	30	25	37	38	29	3	4	17	38	52	15	68	7	13	11	45	A	23	11	13	25.9	67.7	
12-Apr-05	53	36	28	9	30	42	30	31	12	11	3	1	1	3	19	46	30	28	23	A	24	5	6	8	20.8	53.0	
13-Apr-05	14	20	10	14	18	25	26	30	27	12	15	4	3	6	4	2	3	4	A	9	13	14	28	22	14.0	29.6	
14-Apr-05	2	20	14	4	14	12	4	5	11	4	5	5	6	13	14	10	5	A	38	34	37	24	19	8	13.3	37.8	
15-Apr-05	4	3	3	2	2	6	5	8	7	14	24	30	5	33	6	36	A	22	42	22	24	21	32	4	15.4	42.1	
16-Apr-05	4	4	16	18	30	22	15	18	9	3	2	39	16	1	14	A	34	69	8	14	45	13	8	20	18.4	69.2	
17-Apr-05	32	6	7	8	43	24	25	14	12	9	6	3	19	5	A	24	4	3	4	4	5	6	7	5	11.9	43.0	
18-Apr-05	17	15	15	9	29	28	23	25	5	4	4	3	2	A	10	3	3	3	5	7	22	15	12	12	11.8	28.8	
19-Apr-05	12	15	25	28	15	16	16	17	17	18	3	1	A	7	3	2	1	1	3	6	14	15	9	17	11.3	27.9	
20-Apr-05	22	28	14	21	26	53	31	24	24	19	13	A	10	3	3	2	2	5	16	29	6	14	3	19	16.8	53.1	
21-Apr-05	4	5	4	12	26	11	11	8	32	15	A	13	5	6	4	3	3	2	5	7	5	31	29	7	10.8	31.8	
22-Apr-05	25	15	17	13	21	22	14	15	10	A	12	5	11	15	16	55	17	8	14	21	11	41	60	19.9	59.8		
23-Apr-05	6	24	37	10	4	3	5	3	A	9	2	2	2	8	13	1	1	2	2	6	9	12	30	29	9.6	37.2	
24-Apr-05	13	39	38	33	21	28	19	A	14	7	2	1	1	1	1	1	1	1	2	5	8	22	26	32	13.8	39.3	
25-Apr-05	33	29	29	56	31	28	A	29	37	23	10	5	8	6	7	5	10	3	6	24	20	21	22	16	20.0	56.1	
26-Apr-05	15	15	8	16	5	A	10	8	3	31	3	5	2	12	3	7	12	10	3	5	1	3	11	4	8.3	30.7	
27-Apr-05	10	8	3	3	A	9	12	5	7	2	6	5	5	6	7	7	4	5	4	14	13	4	8	15	7.0	14.8	
28-Apr-05	27	12	10	A	14	9	37	8	9	6	10	7	10	17	5	8	7	8	7	10	11	14	12	13	11.8	36.5	
29-Apr-05	3	3	A	20	18	17	17	12	5	3	4	4	4	4	9	6	12	5	11	7	8	9	4	6	3	8.4	20.5
30-Apr-05	3	A	9	4	9	6	4	3	2	3	3	4	3	11	5	4	4	4	6	5	7	6	4	3	4.9	11.1	

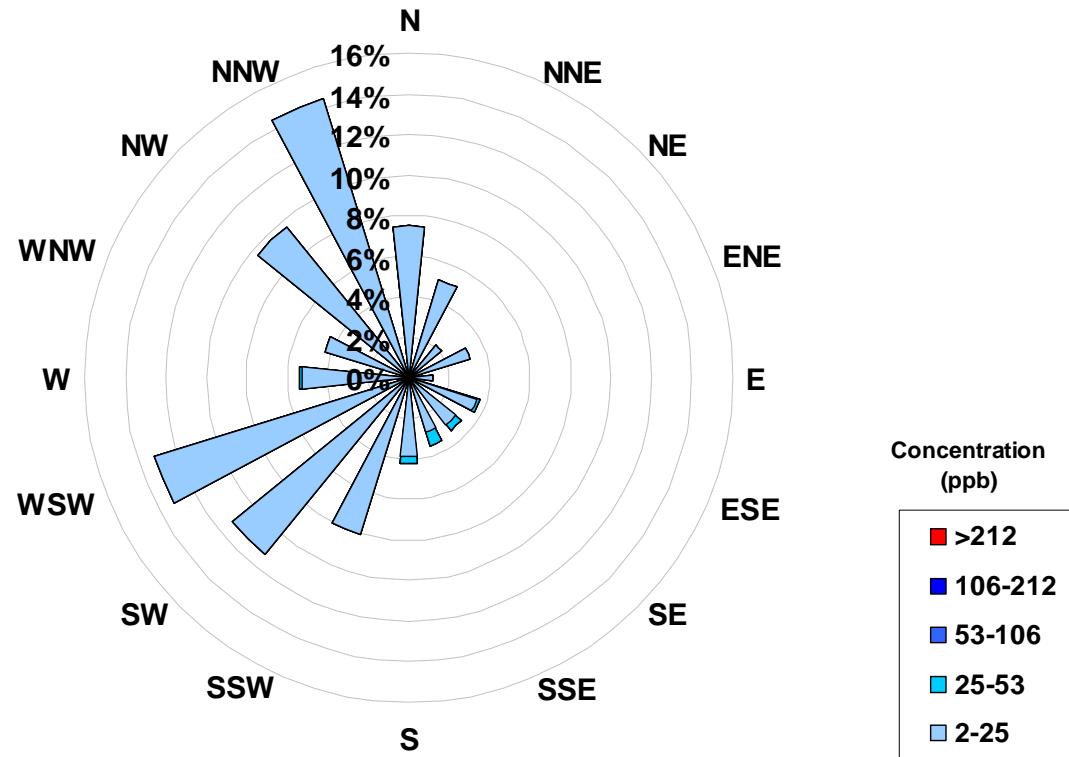
Hourly Avg	20.0	17.1	19.3	14.8	17.6	20.0	18.9	18.1	15.6	10.8	8.7	11.3	8.6	11.1	7.8	17.0	8.7	10.6	15.9	19.0	16.8	18.2	17.4	15.3
Hourly Max	53.0	39.3	77.9	56.1	43.0	53.1	37.0	54.6	39.1	30.7	37.8	38.6	42.7	51.8	20.0	67.7	34.1	69.2	51.5	57.5	45.1	42.4	40.9	59.8

Figure 2. PAS - Crescent Heights Nitrogen Dioxide 1-hr Maximum Value Monthly Trend





**Concentration Rose for the 1-hr NO₂ Average Concentration Occurrences at
the Crescent Heights Site for April 2005**



Frequency Distribution of NO ₂ in ppb		
Range		Frequency (hrs)
0	<	2
2	to	25
25	to	53
53	to	106
106	to	212
	>	212
Total Non-Zero Values		682

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



Station: Crescent Heights

HOURLY AVERAGE TABLE**Nitric Oxide (NO)**

Station Owner: PAS

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

Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	66 ppb	25-Apr	3:00 4:00
Maximum 24-hr Average:	10 ppb	25-Apr	

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

AIC Time:	33 hrs	Operational Time:	682 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	
	32 9 2 1 1 0 0	2.5 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 1:00	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 Maximum	
	Hour End 1:00	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-Apr-05	2	1	5	1	2	1	1	2	1	1	1	1	2	2	3	A	3	2	1	4	1	1	1	1	1	1	1.7	5.1
2-Apr-05	5	1	0	0	0	0	4	2	2	2	1	5	1	A	1	2	1	1	5	1	1	1	3	1	1	1.8	5.4	
3-Apr-05	1	0	2	2	1	1	4	11	2	1	0	0	A	1	1	1	0	0	0	0	0	0	1	0	0	1.4	11.3	
4-Apr-05	1	2	2	1	1	2	5	6	4	5	1	A	1	1	1	1	1	1	1	0	1	2	1	1	1	1.7	6.0	
5-Apr-05	1	0	8	0	1	2	3	7	3	2	A	C	C	C	A	M	0	2	2	A	3	1	0	N	7.9			
6-Apr-05	3	1	A	0	1	1	6	11	2	1	4	1	1	1	1	6	2	1	2	5	4	20	9	1	3.6	19.9		
7-Apr-05	8	A	3	1	1	3	9	11	14	7	4	2	4	1	1	1	1	1	6	2	1	1	1	1	1	3.6	13.9	
8-Apr-05	A	0	0	0	1	5	2	9	2	1	2	3	1	2	1	6	2	2	5	2	2	1	1	1	A	2.4	9.4	
9-Apr-05	1	0	0	0	0	1	1	3	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0.9	3.3	
10-Apr-05	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	0	1	1	1	A	2	1	0.8	2.3	
11-Apr-05	5	3	3	1	7	13	19	51	5	1	1	2	3	3	1	2	1	1	1	6	A	1	0	1	5.6	50.7		
12-Apr-05	4	2	1	0	1	11	7	17	3	2	0	0	0	0	2	3	2	1	0	A	1	0	0	0	0	2.4	17.0	
13-Apr-05	0	1	0	1	1	6	32	56	11	2	3	1	1	1	1	1	1	1	1	A	1	1	1	1	1	5.4	56.1	
14-Apr-05	0	1	1	0	1	1	1	1	1	1	1	1	1	1	2	1	1	1	A	3	4	2	2	1	0	1.2	3.7	
15-Apr-05	0	0	0	0	0	0	1	2	2	3	5	4	1	2	1	2	A	2	4	1	2	1	5	0	1.7	4.9		
16-Apr-05	0	0	1	1	8	1	3	6	1	0	0	1	1	0	0	0	A	3	5	0	1	3	0	0	1.6	7.6		
17-Apr-05	3	0	0	1	4	3	2	1	2	3	2	1	2	1	A	1	1	0	0	0	0	0	0	0	0	1.3	3.5	
18-Apr-05	0	0	0	1	2	5	12	7	1	1	1	1	0	A	1	0	1	1	1	1	2	1	1	1	1	1.7	11.8	
19-Apr-05	0	1	1	5	1	4	6	11	16	7	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	2.5	15.8	
20-Apr-05	1	4	1	2	4	59	18	28	22	11	3	A	1	0	0	0	0	0	0	1	2	1	1	0	6.9	59.2		
21-Apr-05	0	0	0	0	6	2	5	4	2	2	A	1	0	1	1	0	0	0	0	0	0	0	1	2	0	1.2	5.7	
22-Apr-05	1	0	0	0	2	3	4	7	2	A	1	1	1	2	1	2	1	1	0	1	1	0	6	8	2.0	7.7		
23-Apr-05	0	1	3	1	0	0	1	1	A	1	1	1	1	1	0	0	1	0	0	0	0	0	1	2	0.8	3.4		
24-Apr-05	1	11	35	9	2	4	16	A	4	2	0	0	0	0	0	0	0	0	0	0	0	1	2	1	5	4.1	34.9	
25-Apr-05	10	4	14	66	25	36	A	33	27	6	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	10.1	66.0	
26-Apr-05	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.5	
27-Apr-05	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.5	
28-Apr-05	1	1	1	A	1	2	8	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1.4	8.2	
29-Apr-05	0	0	A	1	1	1	3	3	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.1	3.3	
30-Apr-05	1	A	1	1	1	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	2.0	
																									N	0.0		

Hourly Avg	1.7	1.2	3.0	3.3	2.5	5.8	6.2	10.3	4.7	2.5	1.6	1.4	1.1	1.2	1.0	1.5	1.0	0.9	1.5	1.4	1.1	1.6	1.3	1.0	
Hourly Max	9.5	10.6	34.9	66.0	24.8	59.2	32.2	56.1	26.8	10.8	4.9	4.7	3.9	3.4	1.7	6.1	3.0	4.7	5.5	6.1	4.3	19.9	8.9	7.7	



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Nitric Oxide (NO)**

Station Owner: PAS

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

Maximum 1-hr Value:	289.6	ppb	25-Apr	3:00 4:00
Maximum 24-hr Value:	31.5	ppb	25-Apr	

AIC Time:	33 hrs	Operational Time:	682 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%
Percentile	99	95	75
	135	65	13
	3	1	1
	1	1	1
	14.1	Average	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	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 Average	Daily Maximum
1-Apr-05	1:00	64	4	173	11	65	46	4	31	2	13	13	46	3	39	A	11	3	2	88	26	1	14	1	2	28.8	172.7	
2-Apr-05	1:00	112	3	1	1	1	1	24	3	38	32	2	55	2	A	2	26	2	5	73	1	2	39	17	1	19.3	112.3	
3-Apr-05	1:00	11	1	12	34	2	2	18	29	4	2	1	1	A	10	21	2	1	1	1	1	1	46	1	1	8.7	45.9	
4-Apr-05	1:00	2	59	62	27	3	28	49	9	71	71	12	A	2	4	2	1	1	1	1	2	16	3	2	8	18.9	71.4	
5-Apr-05	1:00	2	1	110	1	3	5	7	11	6	4	A	C	C	C	C	A	M	0	3	22	A	22	1	1	N	109.7	
6-Apr-05	1:00	24	28	A	1	2	8	22	134	17	2	107	9	2	2	2	96	4	4	25	47	20	47	32	2	27.7	134.0	
7-Apr-05	1:00	31	A	33	8	3	5	25	23	20	14	40	42	60	1	2	7	1	2	52	27	5	2	10	4	18.2	60.5	
8-Apr-05	1:00	A	2	1	1	14	126	17	32	18	9	3	48	3	5	4	88	17	21	73	10	4	8	17	A	23.7	126.3	
9-Apr-05	1:00	1	1	1	1	1	2	2	6	3	4	4	2	2	2	1	2	1	4	1	6	2	4	A	2	2.3	6.2	
10-Apr-05	1:00	1	0	1	0	0	1	1	1	1	4	4	3	3	2	3	2	2	1	5	10	3	A	9	2	2.5	9.6	
11-Apr-05	1:00	33	15	18	2	38	19	75	110	33	1	2	20	100	79	10	64	3	11	2	18	A	3	2	2	28.7	110.1	
12-Apr-05	1:00	127	22	23	1	22	60	35	44	7	5	1	1	1	1	33	50	31	14	4	A	3	1	1	1	21.2	127.2	
13-Apr-05	1:00	1	3	2	3	2	15	49	79	26	5	13	3	2	4	2	2	1	2	A	2	3	2	4	3	9.9	79.1	
14-Apr-05	1:00	1	3	2	1	2	2	2	2	12	1	1	1	2	4	4	3	1	A	21	39	32	15	9	1	6.9	38.7	
15-Apr-05	1:00	1	1	1	1	1	1	3	4	6	9	34	48	5	38	3	21	A	43	88	16	36	11	120	1	21.3	120.4	
16-Apr-05	1:00	1	1	15	18	48	17	6	11	3	1	2	17	43	1	8	A	55	191	1	1	47	1	1	4	21.4	190.9	
17-Apr-05	1:00	140	1	1	12	137	18	36	2	4	5	4	1	23	1	A	11	2	1	1	1	1	1	1	1	17.7	140.1	
18-Apr-05	1:00	1	1	1	2	14	36	16	26	1	2	2	2	1	A	2	2	1	1	2	2	4	3	2	2	5.5	36.0	
19-Apr-05	1:00	1	1	3	13	3	7	12	17	21	16	2	1	A	1	1	1	1	1	1	1	1	1	1	4.7	20.8		
20-Apr-05	1:00	9	14	1	3	11	280	62	47	34	15	8	A	3	1	2	1	1	2	2	43	1	11	1	10	24.4	280.4	
21-Apr-05	1:00	1	2	2	2	48	4	7	6	33	8	A	3	1	2	1	1	1	1	1	4	1	23	30	1	8.0	48.0	
22-Apr-05	1:00	5	1	1	1	4	7	10	15	6	A	3	2	12	46	14	36	19	2	1	2	2	1	97	179	20.3	179.0	
23-Apr-05	1:00	1	18	50	2	1	1	2	2	A	2	1	1	1	4	5	1	1	1	1	1	1	1	3	5	4.6	50.1	
24-Apr-05	1:00	2	76	71	75	4	36	32	A	6	3	1	1	1	1	1	1	1	1	1	2	18	19	10	15.8	75.9		
25-Apr-05	1:00	23	16	52	290	72	89	A	65	55	23	4	2	3	4	3	2	2	1	2	8	6	1	2	1	31.5	289.6	
26-Apr-05	1:00	1	1	1	2	1	A	4	2	1	21	2	2	1	12	1	2	15	1	1	1	1	1	1	1	1	3.3	21.4
27-Apr-05	1:00	1	1	1	1	A	2	6	3	10	2	10	2	2	6	3	2	2	9	2	10	10	1	1	1	1	3.7	9.8
28-Apr-05	1:00	3	2	2	A	2	3	77	11	6	2	5	4	5	12	2	3	2	5	2	3	6	1	1	1	1	6.9	77.3
29-Apr-05	1:00	1	1	A	2	1	3	5	6	2	2	2	3	2	3	2	4	3	3	2	2	1	1	1	1	2.3	5.5	
30-Apr-05	1:00	1	A	1	2	5	1	2	2	2	3	2	4	3	15	3	3	2	2	2	2	2	2	1	2	2.8	14.9	
																									N	0.0		

Hourly Avg	20.8	9.9	22.8	17.9	17.6	28.5	21.0	25.2	15.4	9.7	10.2	12.0	10.6	11.1	5.0	15.7	6.3	11.5	15.9	10.7	7.5	9.9	13.3	8.7
Hourly Max	140.1	75.9	172.7	289.6	136.9	280.4	77.3	134.0	71.4	70.6	106.8	55.3	100.0	78.8	32.8	96.5	54.7	190.9	88.4	46.9	46.7	46.6	120.4	179.0



Station: Crescent Heights

HOURLY AVERAGE TABLE**Oxides of Nitrogen (NO_x)**

Station Owner: PAS

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

Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	89 ppb	25-Apr	3:00 4:00
Maximum 24-hr Average:	22 ppb	25-Apr	

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

AIC Time:	33 hrs	Operational Time:	682 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	
	55 29 11 6 3 1 1	9.1 ppb	

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start 1:00	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-Apr-05	6	7	12	4	5	4	4	5	5	4	3	4	5	8	A	11	7	3	8	4	3	3	3	3	4	5.3	12.2
2-Apr-05	15	7	2	3	6	8	22	6	6	4	4	10	3	A	6	6	5	5	12	8	5	20	12	3	7.7	21.6	
3-Apr-05	9	6	10	11	6	13	22	28	6	2	0	0	A	5	5	4	1	1	1	2	6	2	1	1	6.2	28.0	
4-Apr-05	8	13	6	6	6	8	15	15	8	9	3	A	6	5	4	3	4	3	5	10	21	18	8	14	8.7	21.5	
5-Apr-05	12	9	21	8	10	14	14	22	12	7	A	C	C	C	A	M	8	8	18	A	19	9	7	N	22.0		
6-Apr-05	11	7	A	7	10	13	28	30	9	6	10	5	3	3	4	13	11	8	17	22	30	54	36	13	15.2	53.5	
7-Apr-05	30	A	20	14	12	16	26	25	29	18	13	6	9	3	4	4	4	4	6	32	27	19	8	15	21	15.7	32.4
8-Apr-05	A	10	5	6	6	16	18	30	8	4	8	10	6	8	6	18	9	11	22	16	12	11	12	A	11.4	30.4	
9-Apr-05	10	8	5	5	5	13	10	18	8	6	8	3	2	2	2	3	3	5	5	5	11	13	A	7	6.8	18.0	
10-Apr-05	7	6	7	5	5	6	6	5	5	7	4	3	3	3	2	3	2	2	5	12	15	A	30	16	6.9	29.7	
11-Apr-05	22	23	23	20	30	36	40	80	15	2	3	4	6	6	4	7	4	4	6	32	A	12	5	8	17.1	79.8	
12-Apr-05	10	10	10	5	12	34	29	37	10	6	2	1	0	1	8	11	9	4	5	A	12	4	5	5	10.0	37.4	
13-Apr-05	9	13	8	13	17	26	54	82	28	10	10	4	3	3	2	2	3	A	8	7	7	13	8	14.4	81.9		
14-Apr-05	2	12	4	2	7	8	3	4	3	3	4	3	6	8	10	8	5	A	15	15	11	8	11	4	6.7	15.4	
15-Apr-05	3	2	2	1	1	2	3	6	5	8	13	8	2	5	5	8	A	7	9	7	7	6	10	3	5.4	12.6	
16-Apr-05	3	2	6	4	18	7	13	20	4	2	1	3	3	1	1	A	9	9	4	9	16	10	6	11	7.1	20.4	
17-Apr-05	10	5	4	4	8	9	8	10	11	9	4	2	5	3	A	6	3	3	3	4	4	5	3	5.5	11.5		
18-Apr-05	7	6	5	5	13	21	33	22	3	4	3	3	1	A	6	2	2	2	3	5	13	12	7	7	8.1	33.1	
19-Apr-05	7	11	16	27	13	17	19	24	31	18	2	1	A	4	2	1	1	1	1	4	6	12	7	13	10.3	30.6	
20-Apr-05	12	24	12	18	23	86	37	46	43	26	9	A	5	2	2	1	1	2	9	15	5	3	2	6	17.0	86.4	
21-Apr-05	3	4	3	4	16	9	13	10	6	6	A	8	3	4	3	2	2	1	3	3	3	8	11	4	5.6	16.0	
22-Apr-05	7	11	11	8	17	21	15	18	6	A	8	3	3	4	4	5	4	4	6	14	11	4	18	14	9.5	20.9	
23-Apr-05	3	5	9	6	1	2	4	3	A	5	2	2	1	2	2	1	1	1	3	4	6	17	22	4.4	22.2		
24-Apr-05	10	28	64	29	11	18	30	A	13	6	1	1	1	0	1	1	1	1	2	6	12	10	28	12.0	63.8		
25-Apr-05	39	29	38	89	46	56	A	55	51	17	7	3	4	4	5	4	4	2	5	8	11	13	16	8	22.3	89.3	
26-Apr-05	7	6	7	7	2	A	9	5	2	4	2	2	1	1	2	2	5	4	2	3	1	1	3	1	3.6	9.2	
27-Apr-05	4	2	1	2	A	5	5	5	2	2	3	2	2	4	3	3	2	3	3	4	4	2	5	8	3.3	8.2	
28-Apr-05	21	11	9	A	8	9	16	7	3	3	6	4	5	5	3	4	4	4	5	7	5	10	7	5	6.9	21.0	
29-Apr-05	2	2	A	17	15	15	17	10	4	3	3	3	4	6	4	5	5	7	5	5	5	3	4	2	6.4	16.9	
30-Apr-05	2	A	6	3	3	4	4	3	3	3	3	4	3	3	4	4	4	3	3	4	4	5	3	3	3.5	6.1	
																								N	0.0		

Hourly Avg	10.0	10.0	11.6	11.5	11.5	17.1	17.8	21.8	11.7	7.1	4.9	3.8	3.6	3.8	3.9	5.0	4.0	4.0	7.1	9.5	9.1	10.0	8.6	
Hourly Max	38.6	29.0	63.8	89.3	45.6	86.4	54.4	81.9	51.2	25.8	12.6	10.4	9.0	8.5	9.6	17.7	10.8	11.4	32.4	31.7	29.9	53.5	36.0	28.2



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Oxides of Nitrogen (NO_x)**

Station Owner: PAS

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

Maximum 1-hr Value:	323.7	ppb	25-Apr	3:00 4:00
Maximum 24-hr Value:	53.1	ppb	11-Apr	
AIC Time:	33 hrs	Operational Time:	682 hrs	
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%	
Percentile	99	95	75	Average
	166	99	33	27.9 ppb
50	14	6	3	1

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start 1:00	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-Apr-05	92	23	250	28	99	73	15	51	6	22	20	67	11	71	A	31	14	7	138	47	5	28	4	7	48.2	250.3	
2-Apr-05	160	16	8	7	7	11	50	10	77	44	6	92	6	A	9	48	13	14	86	22	10	80	36	7	35.6	159.9	
3-Apr-05	28	10	33	54	11	22	39	57	13	4	1	1	A	27	40	8	2	1	1	2	4	72	5	1	19.1	72.5	
4-Apr-05	21	95	83	45	11	44	79	19	104	99	20	A	8	10	6	4	6	6	8	21	38	38	18	40	35.9	104.4	
5-Apr-05	31	11	141	10	17	23	21	30	19	9	A	C	C	C	A	M	11	14	52	A	52	14	8	N	141.4		
6-Apr-05	53	53	A	9	15	26	50	188	33	7	144	16	5	5	6	149	21	20	64	88	56	79	64	19	50.9	187.7	
7-Apr-05	66	A	63	29	14	22	42	38	38	30	61	66	96	5	8	11	5	13	95	85	28	17	32	36	39.2	96.3	
8-Apr-05	A	15	7	8	24	158	36	65	44	13	14	85	10	14	11	125	47	53	108	39	22	26	38	A	43.7	157.9	
9-Apr-05	19	16	5	5	5	19	15	28	16	12	15	4	4	6	3	6	6	15	6	18	19	22	A	15	12.2	28.3	
10-Apr-05	11	6	10	6	6	9	7	6	6	16	11	8	8	5	5	7	5	3	13	32	35	A	49	23	12.4	48.5	
11-Apr-05	68	43	46	26	64	44	104	145	62	3	5	34	138	131	24	130	9	24	12	59	A	24	12	14	53.1	144.5	
12-Apr-05	167	58	52	10	52	100	66	73	18	16	4	2	2	3	46	96	61	36	27	A	26	5	6	8	40.6	167.2	
13-Apr-05	14	22	11	17	20	40	73	108	53	16	27	6	4	9	5	3	4	5	A	10	16	16	31	25	23.3	107.7	
14-Apr-05	3	22	15	4	16	13	6	6	22	5	6	6	7	16	17	12	6	A	56	73	66	39	28	8	19.6	72.6	
15-Apr-05	4	3	4	2	3	6	7	11	12	22	57	66	9	71	8	57	A	64	129	34	60	31	146	4	35.2	146.3	
16-Apr-05	5	4	31	36	75	38	21	27	12	3	4	55	59	2	22	A	88	254	8	14	90	14	8	24	38.9	253.7	
17-Apr-05	164	7	7	19	166	40	61	15	14	14	10	5	37	5	A	35	5	3	4	5	6	6	7	5	27.9	165.6	
18-Apr-05	18	16	16	11	42	64	39	47	6	5	6	4	3	A	11	4	3	3	6	9	25	15	14	13	16.4	63.8	
19-Apr-05	12	16	27	40	18	22	28	32	37	34	4	2	A	7	3	2	2	2	3	6	14	16	9	17	15.4	40.3	
20-Apr-05	31	43	15	24	36	315	91	70	58	33	20	A	11	3	3	2	2	6	17	71	6	25	4	29	39.8	315.1	
21-Apr-05	4	5	5	14	73	15	16	14	65	23	A	15	6	8	5	4	3	2	5	10	5	54	59	7	18.2	72.5	
22-Apr-05	30	15	18	13	24	28	24	30	15	A	15	7	23	59	30	82	30	10	14	22	22	11	133	208	37.6	207.9	
23-Apr-05	6	41	83	12	4	4	6	4	A	11	3	2	3	12	17	2	2	2	7	10	13	31	33	13.5	83.2		
24-Apr-05	14	114	109	108	25	63	51	A	20	10	2	2	1	1	2	2	2	2	5	9	39	44	40	29.0	114.0		
25-Apr-05	56	45	77	324	101	110	A	93	92	46	14	5	10	10	9	6	11	3	7	31	22	22	24	16	49.4	323.7	
26-Apr-05	16	16	8	19	5	A	13	10	3	52	4	6	3	24	4	8	23	11	3	5	1	3	11	4	10.9	52.4	
27-Apr-05	10	8	3	3	A	9	18	8	14	3	16	7	6	12	9	8	5	14	5	23	23	4	9	16	10.1	23.4	
28-Apr-05	29	13	11	A	16	12	91	19	15	7	14	11	15	29	7	10	9	11	8	11	16	15	12	13	17.1	90.5	
29-Apr-05	4	3	A	21	19	18	22	17	6	5	5	5	6	5	12	8	14	7	13	9	9	11	4	6	4	9.9	22.0
30-Apr-05	3	A	10	5	14	7	5	4	4	6	4	8	5	26	8	6	6	5	8	6	8	8	5	4	7.2	26.1	
																									N	0.0	

Hourly Avg	39.3	26.5	41.0	31.4	33.8	46.7	37.8	42.3	30.5	19.7	18.3	21.8	18.3	21.6	12.2	31.1	14.3	21.2	29.7	28.1	23.4	26.8	29.6	22.3
Hourly Max	167.2	114.0	250.3	323.7	165.6	315.1	103.6	187.7	104.4	98.6	143.9	92.3	137.9	130.6	46.3	149.0	88.4	253.7	137.9	88.3	90.4	80.3	146.3	207.9

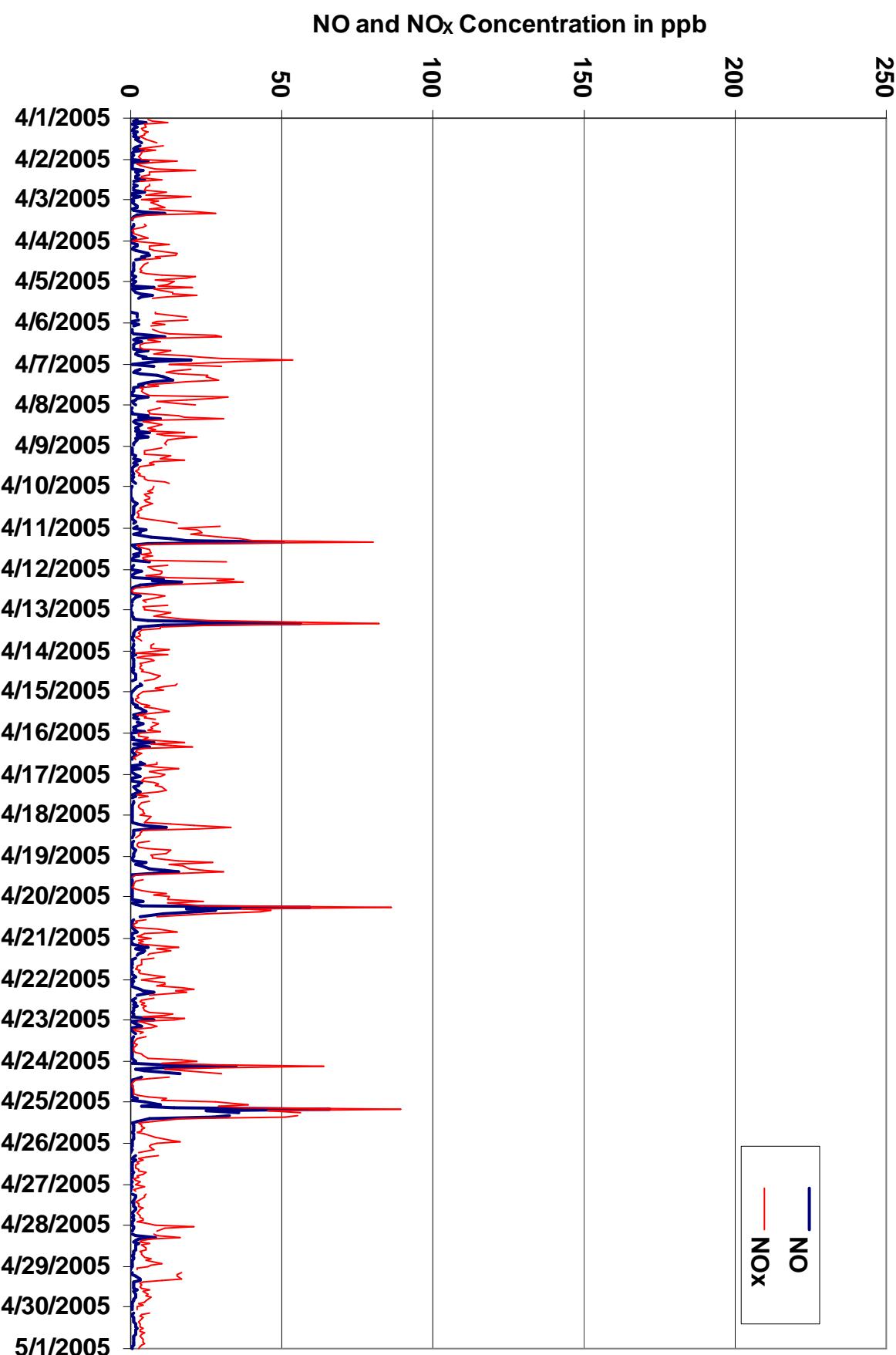


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trends

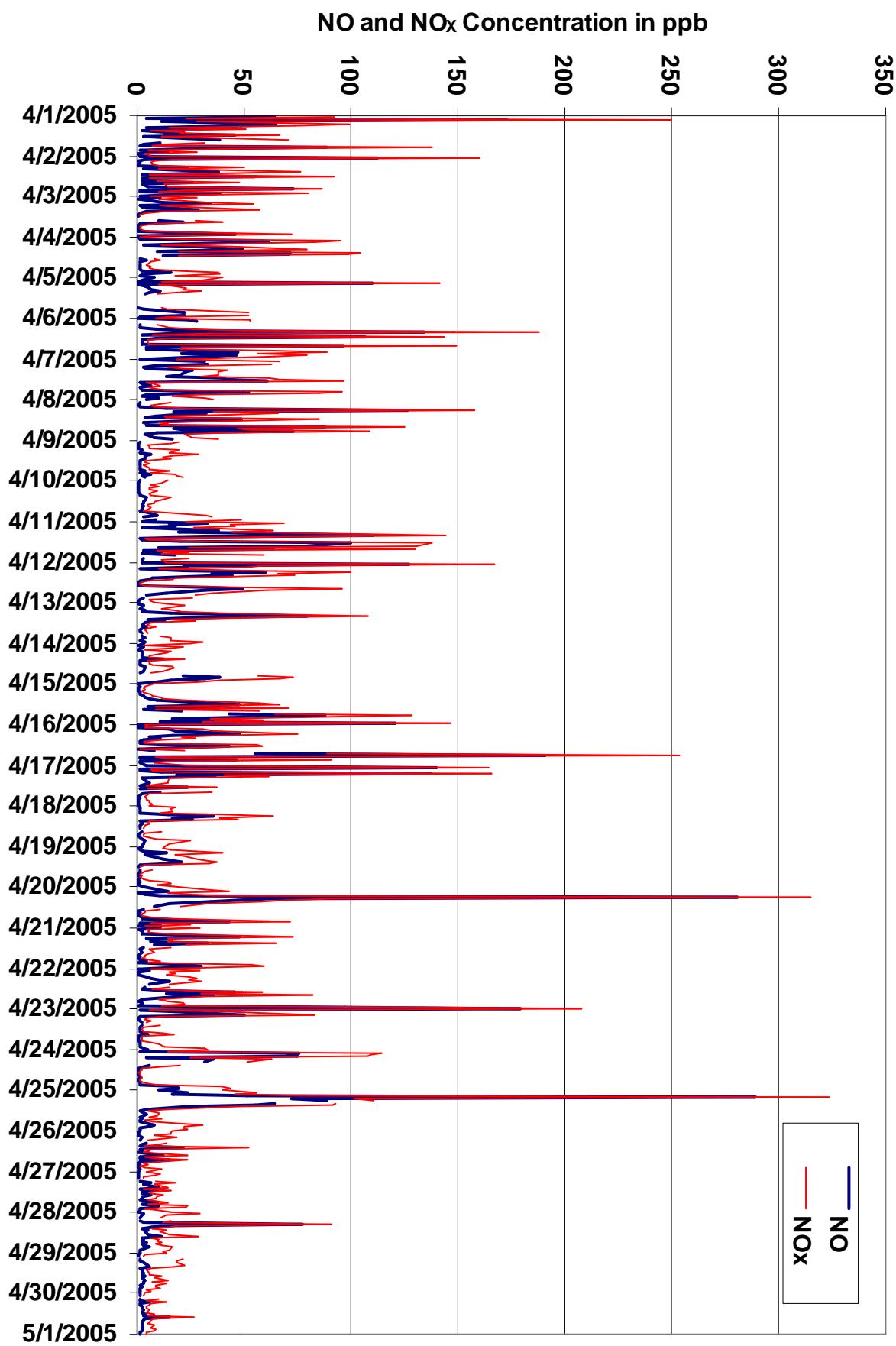


Figure 4. PAS - Crescent Heights Oxides of Nitrogen 1-hr Maximum Value Monthly Trends



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	58 ppb
Maximum 24-hr Average:	40 ppb

5-Apr 16:00 17:00
26-Apr

HOURLY AVERAGE TABLE

Ozone (O_3)

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

AIC Time:	33 hrs	Operational Time:	685 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	
	53 50 43 34 25 9 2		32.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-05	2 1:00	27 2:00	29 3:00	35 4:00	39 5:00	39 6:00	41 7:00	42 8:00	40 9:00	40 10:00	43 11:00	46 12:00	46 13:00	45 14:00	A 15:00	45 16:00	45 17:00	46 18:00	42 19:00	40 20:00	38 21:00	38 22:00	37 23:00	37 0:00	38.3	46.3	
2-Apr-05	30	38	42	38	33	29	21	32	33	41	43	44	48	A	52	53	53	53	44	41	41	27	31	38	39.2	53.0	
3-Apr-05	31	28	25	23	24	17	11	15	30	39	51	51	A	51	47	46	48	48	46	42	40	37	37	38	35.9	51.0	
4-Apr-05	26	20	21	18	18	19	15	17	26	29	39	A	48	49	50	53	53	53	48	37	26	28	32	32.5	53.2		
5-Apr-05	18	19	17	19	17	12	14	12	22	34	A	48	52	53	54	55	58	C	C	A	A	22	26	25	30.3	58.2	
6-Apr-05	24	28	A	28	23	19	13	20	33	36	35	40	45	47	49	45	41	40	30	24	12	3	7	16	28.6	48.5	
7-Apr-05	8	A	13	14	15	11	9	13	13	20	30	38	38	41	41	43	45	41	21	18	19	27	20	16	24.1	44.6	
8-Apr-05	A	24	18	16	21	23	20	19	38	45	45	45	44	40	43	39	42	36	28	26	27	25	26	A	31.3	44.8	
9-Apr-05	29	28	30	32	30	24	26	24	34	32	31	36	39	42	45	42	39	39	37	34	27	28	A	36	44.6		
10-Apr-05	32	31	29	32	31	29	31	34	37	38	42	43	45	46	47	47	48	48	44	34	29	A	8	15	35.6	48.3	
11-Apr-05	13	9	8	11	7	4	8	9	37	45	47	47	46	45	46	45	46	46	42	21	A	29	36	32	29.5	46.9	
12-Apr-05	29	29	27	29	24	13	13	16	31	44	49	51	51	50	42	40	42	44	43	A	31	32	31	28	34.4	51.4	
13-Apr-05	22	16	19	14	10	4	2	2	15	31	34	40	44	44	45	48	47	45	A	37	34	33	32	35	28.4	48.0	
14-Apr-05	37	27	29	28	26	30	38	41	43	42	38	39	35	32	33	38	41	A	29	27	31	35	31	30	33.9	43.2	
15-Apr-05	28	28	29	35	34	33	33	32	35	36	39	44	48	47	48	43	A	47	43	39	35	32	30	36.9	47.7		
16-Apr-05	29	30	28	26	18	21	16	19	40	44	45	44	44	43	A	41	41	37	27	21	22	22	18	31.2	44.9		
17-Apr-05	21	21	25	28	26	25	25	21	24	30	36	52	50	50	A	49	48	47	46	42	40	39	40	43	36.0	51.5	
18-Apr-05	37	38	39	36	22	8	5	21	41	41	38	40	42	A	45	46	46	45	42	36	28	27	32	28	34.0	45.8	
19-Apr-05	27	19	13	6	13	10	11	14	16	28	38	43	A	46	46	46	46	46	44	39	31	20	21	16	27.8	46.3	
20-Apr-05	16	7	12	7	4	2	7	9	17	25	38	A	46	48	49	51	50	50	42	31	32	31	32	28	27.6	50.5	
21-Apr-05	26	24	23	18	12	12	12	20	29	39	A	49	53	52	49	47	46	45	42	38	32	25	23	29	32.5	53.4	
22-Apr-05	23	17	15	18	10	8	14	19	30	A	41	45	46	46	47	46	45	45	42	31	30	33	28	32	31.0	46.8	
23-Apr-05	35	36	33	32	34	33	30	29	A	39	45	48	51	52	53	53	53	52	48	43	37	33	17	10	39.0	53.1	
24-Apr-05	19	10	2	3	10	7	5	A	25	30	39	41	43	43	44	44	44	46	48	45	40	33	28	25	7	27.7	48.3
25-Apr-05	2	3	3	1	1	1	A	9	14	29	41	47	47	50	50	50	50	50	48	46	40	37	25	21	32	28.1	50.3
26-Apr-05	34	36	28	24	30	A	32	36	43	46	46	46	47	48	49	49	47	47	46	43	42	41	34	34	40.4	49.2	
27-Apr-05	28	30	32	31	A	35	37	38	39	40	41	40	39	38	39	40	39	37	37	35	32	35	32	25	35.5	40.9	
28-Apr-05	12	19	19	A	28	22	27	33	38	39	38	40	42	44	43	44	45	45	44	42	39	38	36	34	34.4	45.3	
29-Apr-05	36	36	A	22	22	23	23	29	39	42	42	44	43	43	44	42	41	39	38	36	35	37	35	35	36.0	44.4	
30-Apr-05	34	A	30	29	29	28	28	31	33	32	32	31	32	32	33	33	33	32	31	31	30	31	30	29	31.0	34.0	

Hourly Avg 24.5 24.2 22.9 22.5 21.1 18.6 19.6 22.6 30.8 36.5 40.1 43.6 44.8 45.3 45.5 45.6 45.7 44.7 40.2 34.7 31.7 29.4 27.8 27.5
 Hourly Max 37.3 38.4 41.7 37.5 39.2 39.2 40.6 41.9 43.2 46.0 50.5 51.5 53.4 53.1 53.9 54.8 58.2 52.9 48.1 43.2 41.7 40.6 39.6 42.6

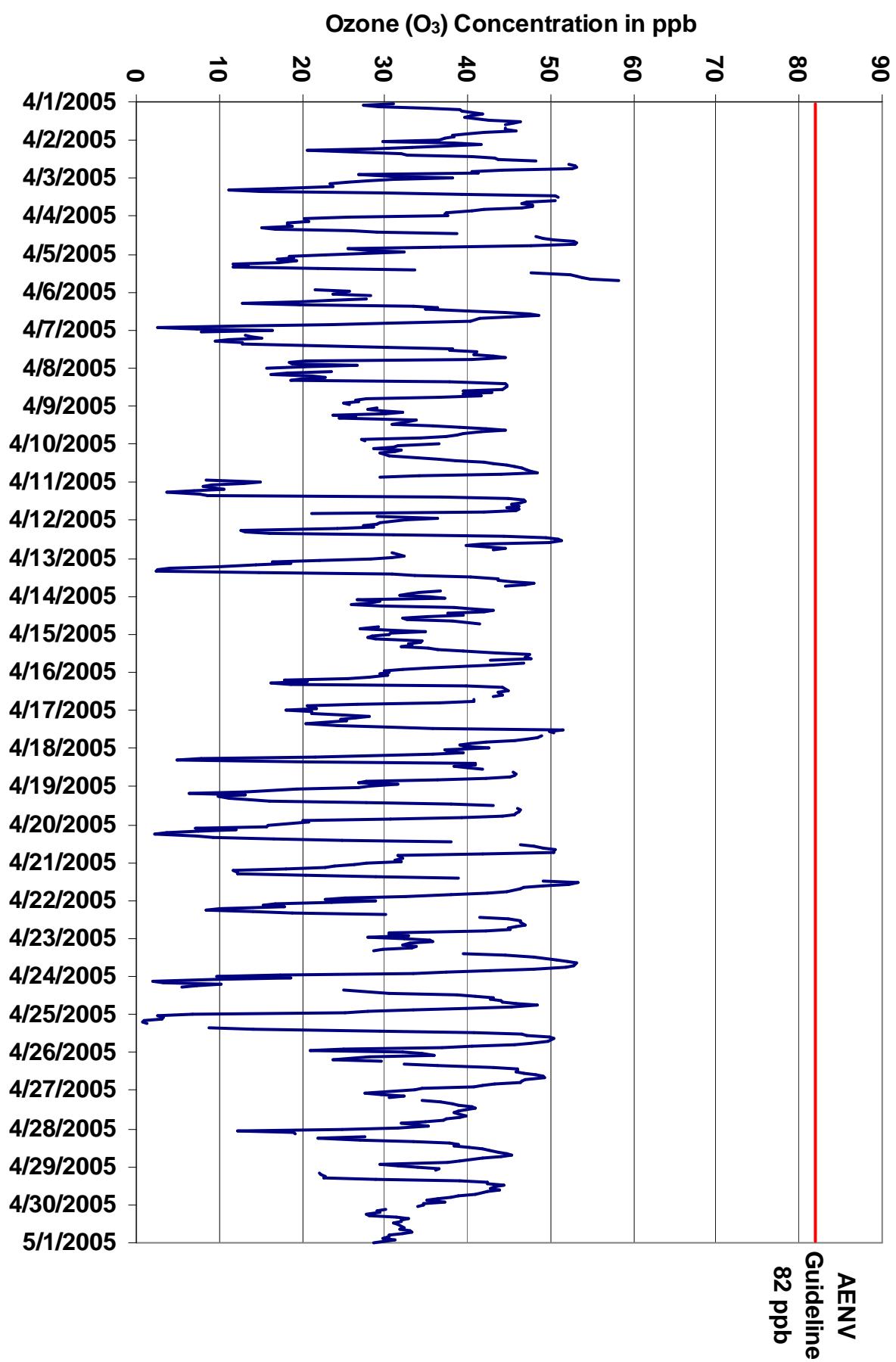


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Ozone (O₃)**

Station Owner: PAS

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

Maximum 1-hr Value:	113.6	ppb	26-Apr	9:00 10:00
Maximum 24-hr Value:	46.4	ppb	26-Apr	

AIC Time:	33 hrs	Operational Time:	685 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99 56	95 52	75 46	50 38	25 31	5 15	1 7	Average 37.1 ppb

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start 0:00	1:00	2:00	3:00	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	
	Hour End 1:00																										
1-Apr-05	35	33	33	40	42	41	43	44	43	41	47	49	49	50	A	49	49	48	46	42	41	40	39	39	42.7	49.7	
2-Apr-05	39	45	46	43	36	35	31	35	41	45	45	49	51	A	55	56	57	56	52	45	44	36	39	41	44.4	56.9	
3-Apr-05	34	33	31	31	28	23	18	24	32	50	52	53	A	53	50	50	50	49	49	45	43	42	40	39	39.9	53.1	
4-Apr-05	36	26	24	22	22	22	19	23	29	34	43	A	50	52	53	55	55	55	53	45	35	36	34	34	37.3	55.3	
5-Apr-05	24	23	23	21	22	19	17	17	30	37	A	51	55	55	57	61	61	C	C	A	A	26	31	27	34.6	60.8	
6-Apr-05	27	33	A	32	28	26	16	29	37	38	38	45	47	49	50	51	49	46	38	34	24	16	18	19	34.4	50.9	
7-Apr-05	18	A	19	19	19	15	13	16	16	28	38	42	43	43	43	46	47	46	36	26	30	32	30	27	30.1	46.9	
8-Apr-05	A	25	22	18	24	26	23	27	44	48	48	50	50	43	45	48	46	43	36	38	38	29	29	A	36.5	50.2	
9-Apr-05	32	31	32	34	31	30	30	36	39	34	36	42	42	45	46	44	42	41	40	38	33	36	A	41	37.2	46.3	
10-Apr-05	36	33	31	33	33	31	34	36	40	43	44	45	47	47	48	49	49	50	48	42	38	A	15	19	38.7	49.8	
11-Apr-05	20	15	16	15	13	9	15	19	45	46	49	50	49	49	51	48	49	49	46	40	A	33	41	37	35.0	50.6	
12-Apr-05	33	36	34	33	32	22	17	25	36	48	51	53	53	52	47	46	47	49	46	A	36	35	34	34	39.1	52.7	
13-Apr-05	27	21	23	20	18	8	6	4	25	38	40	42	46	45	48	50	50	47	A	40	37	39	40	41	32.8	49.6	
14-Apr-05	39	39	33	30	32	37	40	43	45	44	40	41	39	37	37	44	44	A	38	36	38	38	36	33	38.4	45.2	
15-Apr-05	30	30	35	36	36	35	35	34	38	43	46	48	49	50	50	47	A	49	48	43	38	35	34	32	40.1	50.4	
16-Apr-05	31	32	32	31	26	24	20	31	43	46	47	46	46	46	44	A	45	44	42	31	27	25	26	24	35.0	46.8	
17-Apr-05	26	26	28	32	29	28	29	25	29	34	42	54	54	53	A	51	51	49	48	44	43	42	49	46	39.6	54.4	
18-Apr-05	43	45	45	41	30	14	10	42	44	43	40	43	43	A	49	47	47	46	46	39	38	31	35	34	39.0	48.5	
19-Apr-05	31	28	18	14	16	13	15	17	21	36	41	45	A	47	48	48	47	47	46	42	39	22	23	22	31.6	48.5	
20-Apr-05	21	16	15	14	9	6	15	13	28	29	45	A	48	49	51	52	52	53	51	39	36	34	33	33	32.2	52.5	
21-Apr-05	29	26	24	23	16	16	16	27	32	45	A	53	56	55	51	48	49	47	45	41	37	31	31	31	36.0	55.5	
22-Apr-05	31	21	18	23	16	14	17	29	34	A	46	48	49	50	49	48	47	48	47	36	36	35	36	37	35.5	49.7	
23-Apr-05	38	39	38	35	36	36	34	32	A	43	46	50	53	54	55	54	54	53	52	47	42	39	33	23	42.9	54.6	
24-Apr-05	23	17	8	8	12	12	7	A	29	38	41	43	45	44	46	46	49	50	48	43	37	31	30	21	31.6	49.9	
25-Apr-05	5	10	8	2	2	3	A	12	19	36	47	48	50	53	53	53	52	49	49	47	42	37	26	38	32.2	53.0	
26-Apr-05	39	42	34	27	35	A	35	43	45	114	47	48	49	50	51	52	50	50	48	46	44	44	39	36	46.4	113.6	
27-Apr-05	32	35	35	34	A	37	39	41	41	42	42	42	41	42	41	42	41	40	40	38	35	38	38	31	38.7	42.4	
28-Apr-05	19	20	21	A	34	26	32	41	41	43	43	42	45	45	46	46	47	50	46	45	43	41	37	36	37	38.2	49.6
29-Apr-05	38	38	A	30	25	24	24	37	43	43	44	46	45	46	46	45	43	41	40	39	38	39	37	36	38.7	46.2	
30-Apr-05	36	A	32	30	31	30	30	33	34	34	33	34	34	34	35	35	34	33	33	32	33	32	30	30	32.9	35.7	

Hourly Avg	30.1	29.2	27.1	26.5	25.3	22.8	23.5	28.8	35.3	42.9	43.7	46.5	47.3	47.8	48.0	48.7	48.5	47.3	44.9	40.1	37.2	34.2	33.2	32.5
Hourly Max	43.5	44.8	46.5	42.6	42.1	41.0	42.5	44.3	45.4	113.6	52.2	54.4	55.5	55.2	56.8	60.8	60.7	56.0	52.9	47.0	44.5	44.0	48.8	46.5

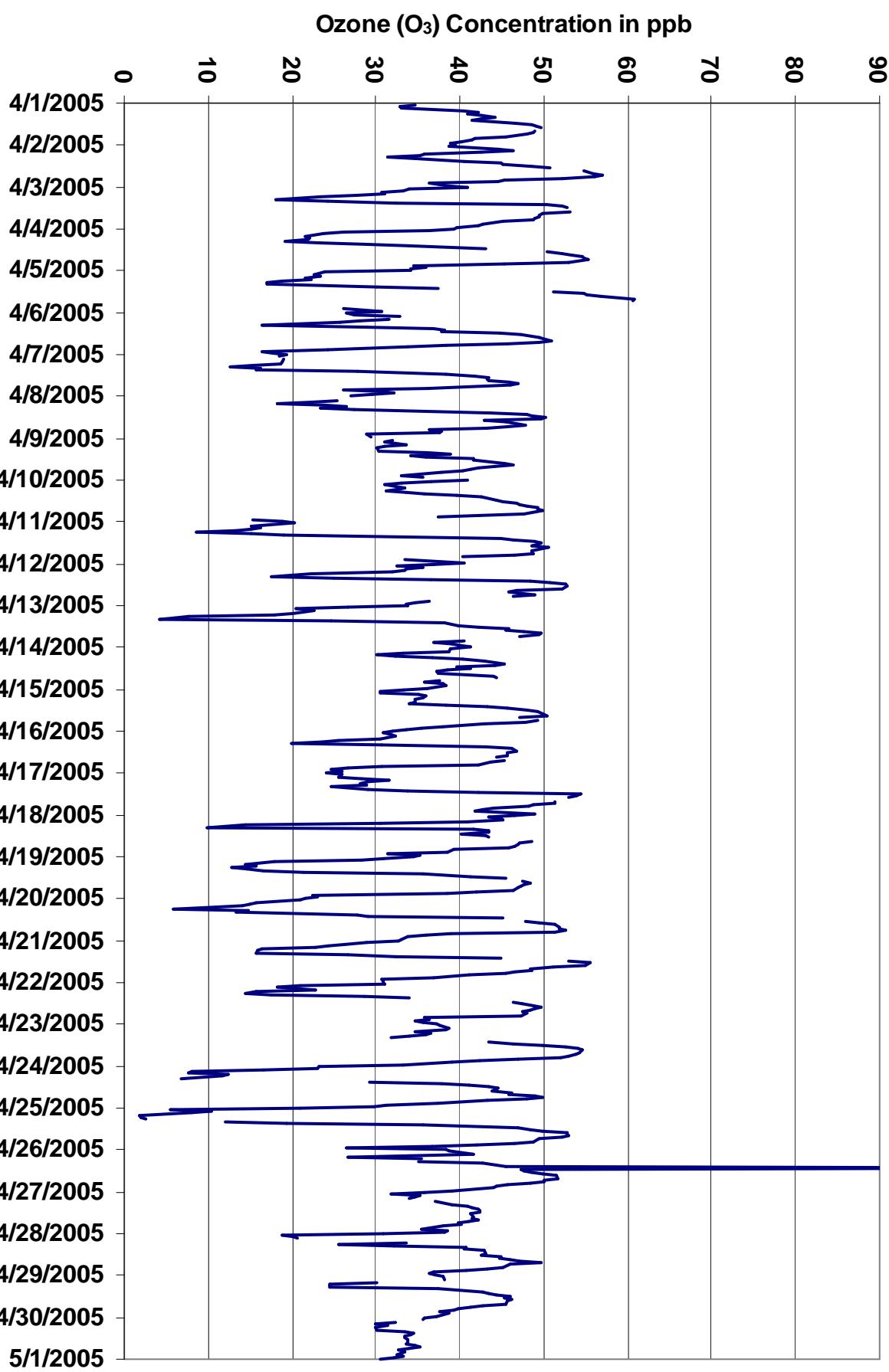


Figure 6. PAS - Crescent Heights Ozone 1-hr Maximum Value Monthly Trend



Station: Crescent Heights

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station Owner: PAS

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	51.2 ppb 23-Apr 18:00 19:00

Guideline Limit: Canada Wide Standard

8-hr 65 ppb

Percentile	99	95	75	50	25	5	1
	49.3	46.6	40.4	33.4	27.2	13.4	8.3

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

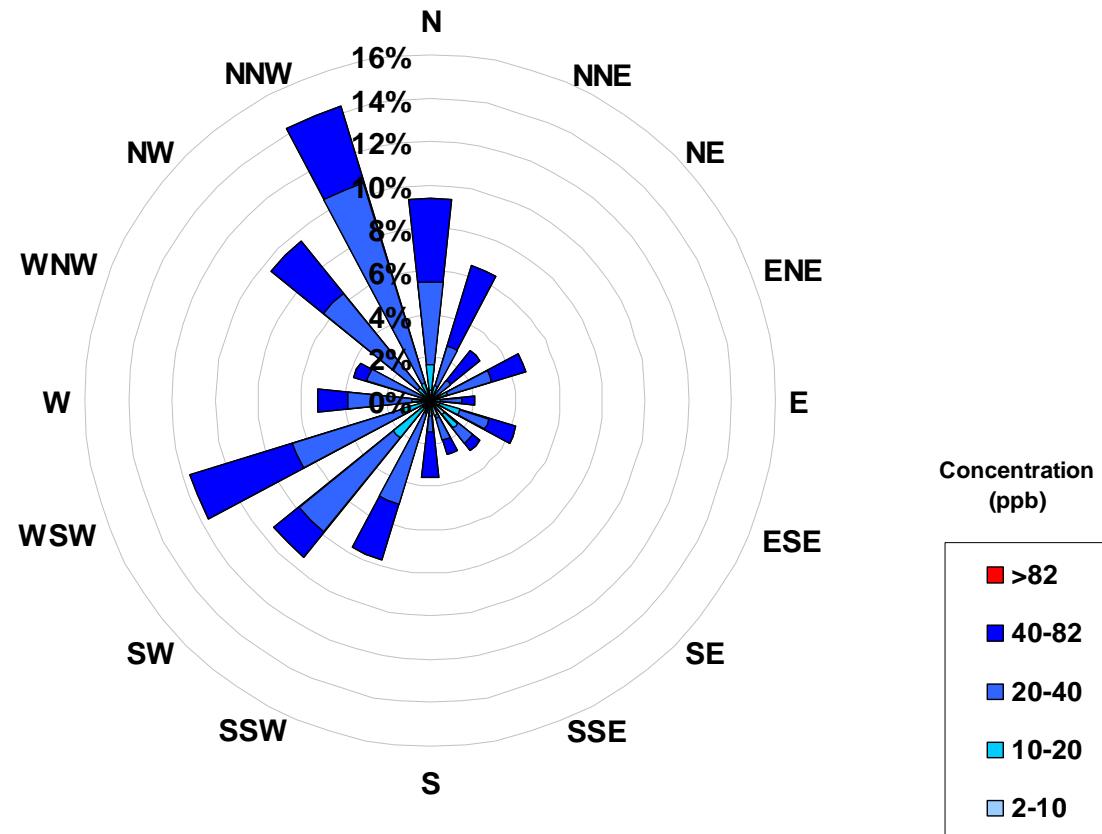
Day Mountain Standard Time

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	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-Apr-05	31	27	27	29	30	31	33	35	37	38	40	41	42	43	43	43	44	45	45	44	43	42	41	40	38.1	44.8	
2-Apr-05	38	38	38	37	37	35	33	33	33	33	34	34	36	37	42	45	48	49	50	49	48	45	43	41	39.8	49.5	
3-Apr-05	38	35	33	31	28	27	25	22	22	23	26	30	31	35	40	45	48	49	48	47	46	44	43	42	35.8	48.8	
4-Apr-05	39	36	33	30	27	25	22	19	19	20	23	23	27	32	37	42	46	49	51	49	46	43	41	37	34.0	50.6	
5-Apr-05	33	29	25	23	22	20	17	16	16	18	18	22	27	33	39	45	50	N	N	N	N	N	N	N	N	50.5	
6-Apr-05	N	N	N	N	25	25	23	22	23	25	26	27	30	34	38	41	42	43	42	40	36	30	25	22	31.0	42.8	
7-Apr-05	18	14	12	10	11	12	12	12	13	14	16	19	22	25	29	33	37	40	38	36	33	32	29	26	22.6	39.5	
8-Apr-05	23	21	20	20	20	20	20	20	22	25	28	32	35	37	40	42	43	42	40	37	35	33	31	30	29.8	42.7	
9-Apr-05	28	27	27	28	28	28	28	28	29	29	30	31	33	35	37	38	39	40	40	38	36	35	34	32	32.4	39.8	
10-Apr-05	33	32	31	31	31	31	31	31	32	33	34	36	37	39	41	43	44	46	46	45	43	42	37	32	36.8	45.9	
11-Apr-05	27	22	17	13	10	9	9	8	11	16	21	25	30	35	40	45	46	46	45	42	42	39	38	36	28.1	46.0	
12-Apr-05	34	31	29	30	30	28	25	23	23	25	27	30	34	38	42	45	46	46	45	45	42	39	38	36	34.6	46.2	
13-Apr-05	33	29	26	24	22	18	15	11	10	12	14	17	22	26	32	38	42	43	45	44	43	41	39	37	28.5	44.6	
14-Apr-05	36	33	33	32	31	31	31	32	33	35	36	37	38	39	38	37	37	35	34	33	33	32	32	32	34.4	38.5	
15-Apr-05	30	30	30	31	31	31	31	31	32	33	35	36	37	39	41	42	43	45	45	45	43	41	38	37	36.7	45.5	
16-Apr-05	36	34	32	30	28	27	25	23	25	26	29	31	34	37	40	43	44	43	42	39	36	33	30	28	33.1	43.5	
17-Apr-05	26	23	22	22	23	23	24	24	24	26	27	30	33	36	38	42	45	47	49	47	46	45	44	43	33.7	48.8	
18-Apr-05	42	41	40	39	37	33	28	26	26	27	26	27	29	33	38	42	43	43	44	43	41	39	38	35	35.8	43.7	
19-Apr-05	33	30	26	23	21	19	16	14	13	14	17	22	23	28	33	38	42	44	45	45	43	40	37	33	29.0	45.3	
20-Apr-05	29	24	20	16	13	11	9	8	8	10	14	15	21	27	33	39	44	48	48	46	44	42	40	37	26.9	48.1	
21-Apr-05	34	31	28	27	24	22	19	19	19	21	20	25	31	36	42	45	48	49	48	47	44	41	37	35	33.0	48.8	
22-Apr-05	32	29	25	23	20	18	17	16	16	16	20	24	29	35	39	43	45	45	45	44	42	40	37	36	30.7	45.3	
23-Apr-05	35	33	32	32	33	33	33	33	32	33	35	37	39	42	45	49	49	51	51	51	49	47	42	37	39.7	51.2	
24-Apr-05	32	27	21	16	13	10	8	8	9	12	17	23	27	32	38	39	41	43	44	44	43	41	39	34	27.6	44.3	
25-Apr-05	29	23	18	13	9	5	3	3	5	8	14	20	27	34	36	41	45	48	48	48	46	43	40	37	26.7	48.3	
26-Apr-05	35	34	32	30	29	29	31	32	33	34	37	40	42	43	45	47	47	47	47	46	45	44	42	39.1	47.4		
27-Apr-05	39	37	35	34	33	32	32	33	34	36	37	39	39	39	40	40	40	39	39	38	37	36	34	36.5	39.5		
28-Apr-05	31	28	26	25	24	22	22	23	27	29	32	33	35	37	40	41	42	43	43	43	42	41	39	38	33.6	43.0	
29-Apr-05	37	36	35	32	30	29	28	27	28	29	30	33	36	38	41	43	43	42	42	41	40	39	38	37	35.5	42.7	
30-Apr-05	36	36	35	34	33	31	30	30	30	30	30	31	31	32	32	32	32	32	32	32	32	31	31	31	31.9	36.1	
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	30.4		

Hourly Avg	32.6	30.0	27.9	26.4	25.1	23.8	22.7	22.1	22.8	24.3	26.4	28.9	31.8	35.2	38.6	41.6	43.5	44.3	44.2	43.1	41.5	39.6	37.4	35.2
Hourly Max	41.7	40.5	39.8	39.0	36.6	35.4	33.3	35.4	36.6	38.1	39.8	41.2	42.3	43.1	45.2	48.7	50.5	50.7	51.2	50.5	48.9	46.6	43.9	43.1



Concentration Rose for the 1-hr O₃ Average Concentration Occurrences at the Crescent Heights Site for April 2005



Frequency Distribution of O ₃ in ppb		
Range		Frequency (hrs)
0 < 2		5
2 to 10		36
10 to 20		75
20 to 40		338
40 to 82		231
> 82		0
Total Non-Zero Values		685

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



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.20 ppm
Maximum 24-hr Average:	0.35 ppm

11-Apr 7:00 8:00
30-Apr

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

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

AIC Time:	32 hrs	Operational Time:	678 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	99.7%
Percentile	99	95	75

50 25 5 1 Average
0.6 0.4 0.3 0.2 0.2 0.1 0.1 0.2 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 1:00	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-05	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34	0.53
2-Apr-05	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.23	0.31
3-Apr-05	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	A	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.27	0.40	
4-Apr-05	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.32	0.53	
5-Apr-05	0.5	0.6	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.6	C	C	C	C	C	C	C	M	M	C	C	A	A	0.3	0.2	N	0.72	
6-Apr-05	0.2	0.2	A	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.2	0.22	0.43
7-Apr-05	0.2	A	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.3	0.21	0.38
8-Apr-05	A	0.2	0.1	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	A	0.22	0.39
9-Apr-05	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4	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	A	0.28	0.37	
10-Apr-05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.1	0.2	0.17	0.33	
11-Apr-05	0.2	0.2	0.2	0.3	0.5	0.6	1.2	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.26	1.20	
12-Apr-05	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.24	0.53	
13-Apr-05	0.3	0.2	0.2	0.3	0.4	0.6	1.0	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.28	0.98	
14-Apr-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	A	0.2	0.2	0.2	0.2	0.22	0.28	
15-Apr-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.21	0.25	
16-Apr-05	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.24	0.37	
17-Apr-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.22	0.28	
18-Apr-05	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.24	0.42	
19-Apr-05	0.2	0.2	0.2	0.4	0.3	0.3	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.27	0.46	
20-Apr-05	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.4	0.2	A	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	0.29	0.58		
21-Apr-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28		
22-Apr-05	0.2	0.2	0.2	0.3	0.4	0.3	0.4	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	0.3	0.2	0.2	0.2	0.23	0.38		
23-Apr-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.39		
24-Apr-05	0.3	0.3	0.2	0.2	0.3	0.3	A	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	0.2	0.2	0.2	0.2	0.21	0.35		
25-Apr-05	0.3	0.3	0.3	0.3	0.4	A	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.23	0.46		
26-Apr-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.16	0.19		
27-Apr-05	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.25		
28-Apr-05	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.24		
29-Apr-05	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.17	0.25		
30-Apr-05	0.2	A	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.35	0.51		

Hourly Avg	0.24	0.24	0.24	0.24	0.26	0.30	0.33	0.38	0.27	0.23	0.21	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.23	0.26	0.26	0.25	0.25	0.24
Hourly Max	0.53	0.55	0.54	0.55	0.58	0.72	0.68	1.20	0.66	0.64	0.35	0.35	0.37	0.36	0.39	0.39	0.40	0.43	0.43	0.44	0.53	0.48	0.51	0.52	

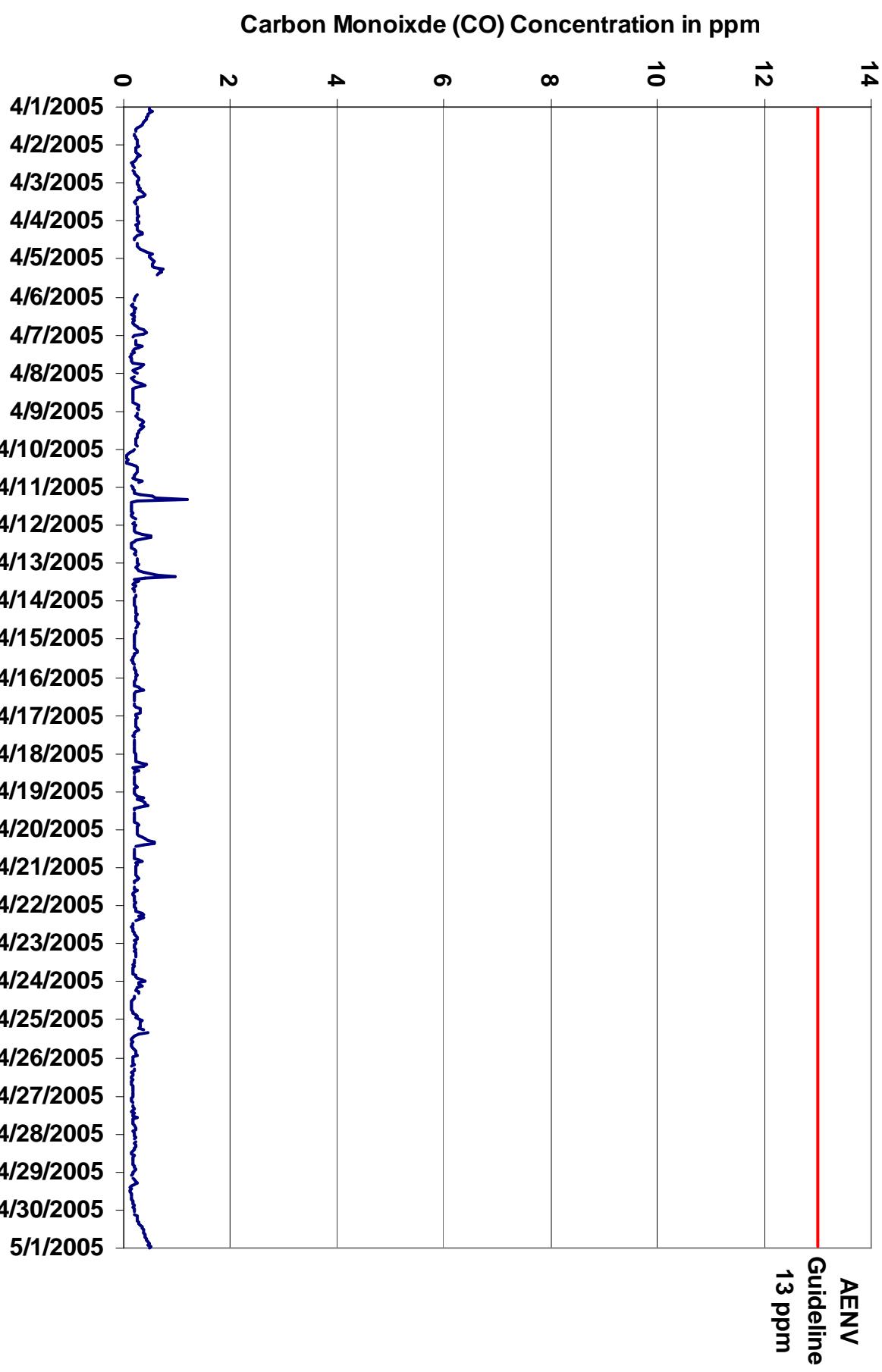


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Carbon Monoxide (CO)**

Station Owner: PAS

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

Maximum 1-hr Value:		2.2	ppm	11-Apr	7:00 8:00
Maximum 24-hr Value:		0.5	ppm	4-Apr	

AIC Time:	29 hrs	Operational Time:	673 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	98.3%					
Percentile	99 1.4	95 0.7	75 0.4	50 0.3	25 0.2	5 0.2	1 0.1	Average 0.3 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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 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-Apr-05	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	A	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.38	0.56
2-Apr-05	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.2	0.2	0.3	0.3	0.3	A	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.31	0.51	
3-Apr-05	0.5	0.4	0.4	0.4	0.4	0.6	0.6	0.3	0.3	0.3	0.2	0.2	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.34	0.56
4-Apr-05	0.3	0.3	0.8	0.3	0.4	0.4	0.6	0.5	0.3	0.3	0.3	0.3	A	0.9	0.3	0.3	0.3	0.4	0.5	0.6	0.9	0.7	0.5	0.6	0.47	0.88
5-Apr-05	0.6	0.6	0.6	0.6	1.7	0.8	1.0	0.7	0.7	C	C	C	C	C	M	N	N	N	N	N	N	N	N	N	1.70	
6-Apr-05	N	N	N	N	0.2	0.3	0.3	0.5	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.6	0.7	0.7	0.6	0.3	0.36	0.68
7-Apr-05	0.2	A	0.7	0.6	0.3	0.3	0.6	0.6	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.9	0.6	0.3	0.2	0.3	0.3	0.39	0.94
8-Apr-05	A	0.2	0.2	0.2	0.3	0.5	0.6	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.2	0.3	0.5	0.7	0.5	0.6	A	0.34	0.71	
9-Apr-05	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.5	A	0.3	0.36	0.49	
10-Apr-05	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.6	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4	A	0.2	0.2	0.2	0.24	0.56
11-Apr-05	0.2	0.2	0.2	0.2	0.5	1.4	2.2	0.8	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.3	0.2	0.45	2.21
12-Apr-05	0.3	0.2	0.3	0.2	0.4	0.5	1.4	1.0	0.4	0.3	0.4	0.1	0.1	0.2	0.3	0.3	0.2	0.2	A	0.3	0.2	0.2	0.3	0.36	1.42	
13-Apr-05	0.3	0.3	0.2	0.3	0.3	0.4	1.8	1.4	0.6	0.3	0.8	0.2	0.3	0.6	0.3	0.2	0.2	0.3	A	0.3	0.3	0.3	0.2	0.44	1.76	
14-Apr-05	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.5	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.30	0.56	
15-Apr-05	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.2	0.2	A	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.26	0.39	
16-Apr-05	0.3	0.3	0.3	0.3	0.2	0.5	0.4	0.5	0.3	0.3	0.3	0.2	0.3	0.2	0.2	A	0.2	0.3	0.2	0.4	0.4	0.3	0.2	0.30	0.50	
17-Apr-05	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.4	0.4	0.3	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.37	
18-Apr-05	0.2	0.2	0.3	0.3	0.7	0.7	0.7	0.2	0.3	1.1	0.3	0.3	A	0.5	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.37	1.07	
19-Apr-05	0.3	0.3	0.3	1.3	0.4	0.7	0.6	0.6	0.5	0.4	0.2	A	0.7	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.41	1.35	
20-Apr-05	0.3	0.3	0.3	0.5	0.5	0.6	0.8	0.7	0.5	0.3	A	0.3	0.2	0.3	0.2	0.2	0.3	0.4	0.7	0.3	0.3	0.3	0.2	0.38	0.75	
21-Apr-05	0.2	0.5	0.2	0.6	0.3	0.4	0.4	0.4	0.3	0.3	A	0.4	0.3	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.32	0.74	
22-Apr-05	0.3	0.2	0.2	0.2	1.1	0.6	0.5	0.6	0.3	A	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	0.32	1.10	
23-Apr-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.25	0.47	
24-Apr-05	0.4	0.4	0.6	0.3	0.4	0.4	0.4	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.29	0.72	
25-Apr-05	0.5	0.5	1.1	0.4	0.5	0.5	A	0.7	0.4	0.3	0.3	0.2	0.2	0.6	0.2	0.2	0.2	0.2	0.3	0.6	0.6	0.4	0.3	0.2	0.41	1.06
26-Apr-05	0.2	0.2	0.2	0.3	0.2	A	0.3	0.2	0.2	0.9	0.3	0.2	0.3	0.7	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.28	0.94
27-Apr-05	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.2	0.2	0.5	0.5	0.5	1.1	0.4	0.3	0.2	0.3	0.4	0.4	0.3	0.2	0.3	0.2	0.34	1.10
28-Apr-05	0.3	0.3	0.3	A	0.3	0.2	0.3	0.3	0.5	0.3	0.3	0.2	0.3	0.6	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.3	0.31	0.62	
29-Apr-05	0.2	0.2	A	0.2	0.3	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.23	0.40	
30-Apr-05	0.3	A	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.6	0.6	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.43	0.63	
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	

Hourly Avg	0.30	0.29	0.35	0.35	0.36	0.46	0.55	0.57	0.40	0.33	0.35	0.26	0.27	0.41	0.28	0.25	0.26	0.26	0.32	0.37	0.38	0.33	0.32	0.30
Hourly Max	0.63	0.57	1.06	1.35	1.10	1.70	1.76	2.21	0.85	0.94	1.07	0.63	0.53	1.10	0.51	0.48	0.49	0.50	0.94	0.74	0.87	0.68	0.60	0.72



Carbon Monoixde (CO) Concentration in ppm

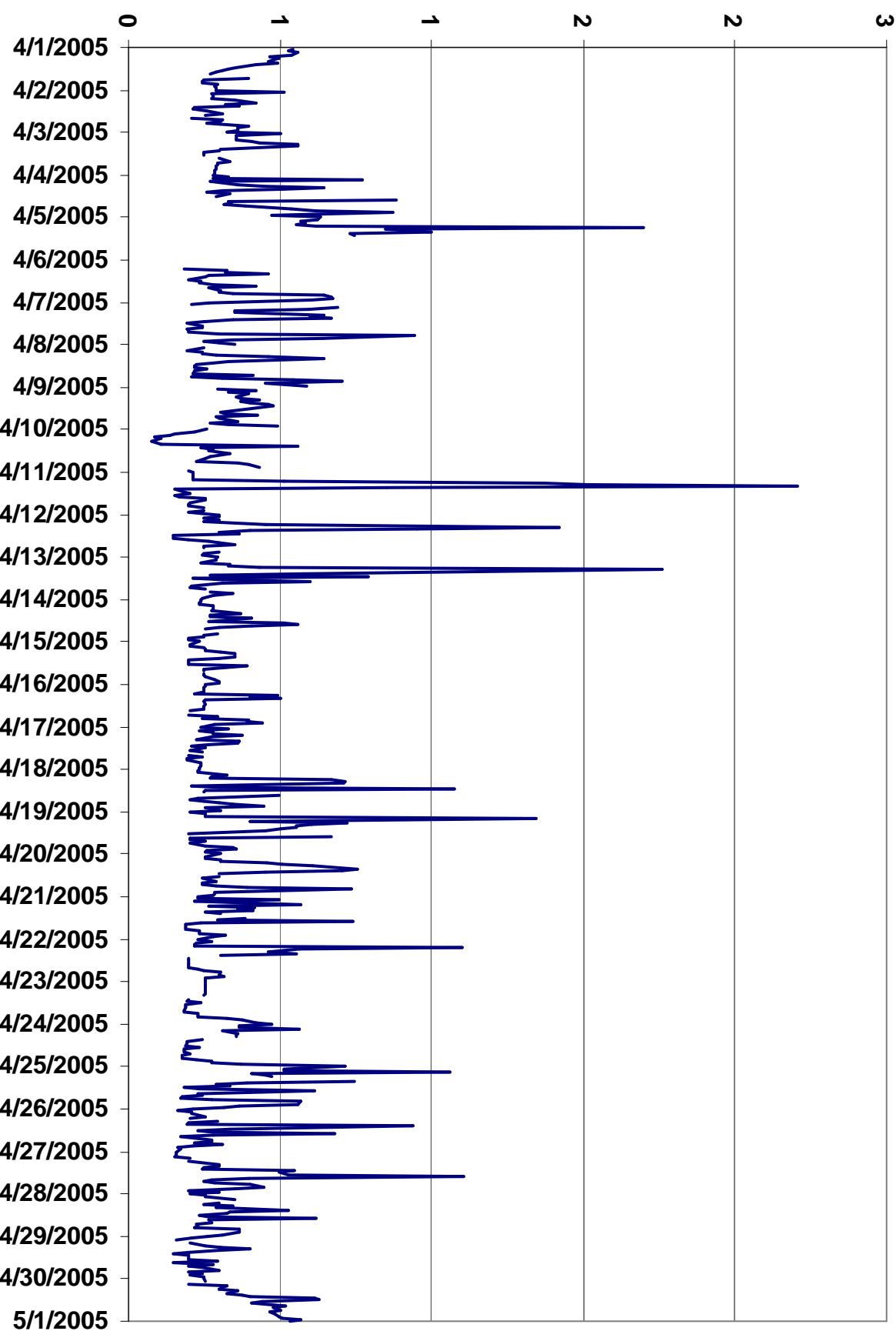


Figure 8. PAS - Crescent Heights Carbon Monoxide 1-hr Maximum Value Monthly Trend



Station: Crescent Heights

EIGHT HOUR RUNNING AVERAGE TABLE**Carbon Monoxide (CO)**

Station Owner: PAS

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.65 ppm 5-Apr 10:00 11:00

Guideline Limit: Alberta Environment: 8-hr 5 ppm

Percentile	99	95	75	50	25	5	1
	0.52	0.42	0.26	0.22	0.19	0.16	0.13

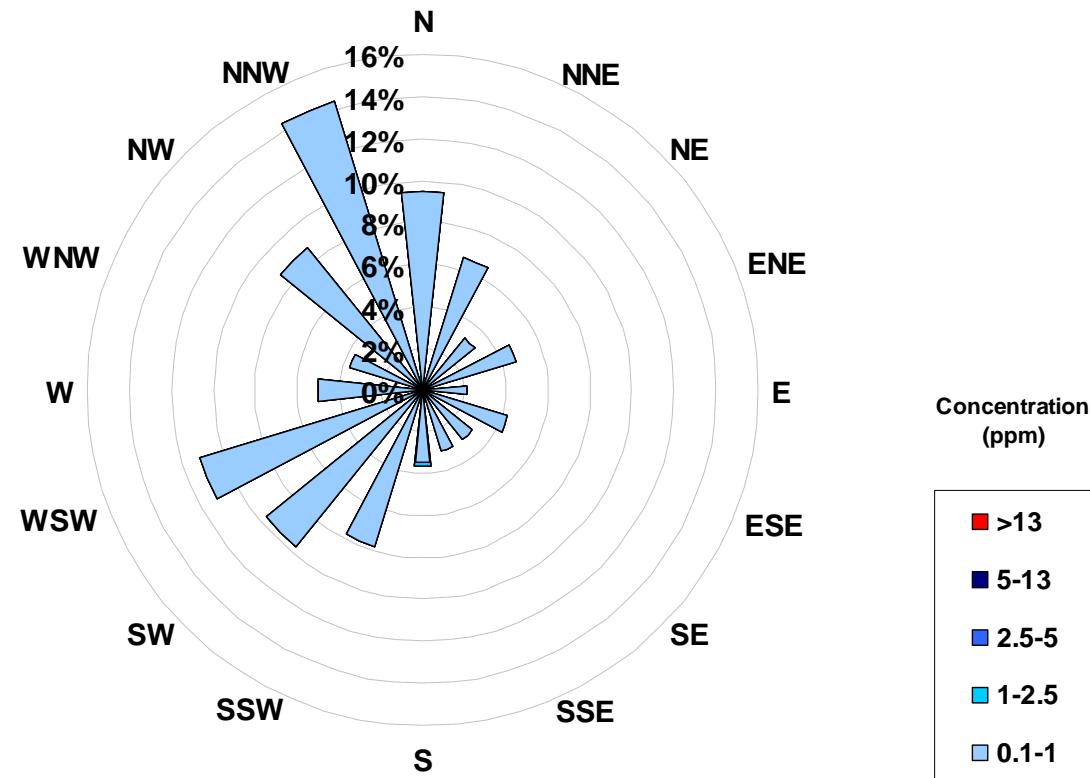
Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 1:00	0:00 2:00	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-Apr-05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.37	0.51	
2-Apr-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.26	
3-Apr-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	0.3	0.3	0.3	0.3	0.27	0.32	
4-Apr-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	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.28	0.43	
5-Apr-05	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.65		
6-Apr-05	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	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	0.20	0.28
7-Apr-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	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.29	
8-Apr-05	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.25	
9-Apr-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	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.28	0.33	
10-Apr-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	0.17	0.23	
11-Apr-05	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.44	
12-Apr-05	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.30	
13-Apr-05	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29	0.42	
14-Apr-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	0.22	0.25	
15-Apr-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	0.20	0.23	
16-Apr-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	0.23	0.25	
17-Apr-05	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	0.2	0.22	0.26	
18-Apr-05	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.28	
19-Apr-05	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	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.35	
20-Apr-05	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29	0.42	
21-Apr-05	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	0.2	0.2	0.2	0.22	0.26	
22-Apr-05	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.29	
23-Apr-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	0.21	0.25	
24-Apr-05	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	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.22	0.30	
25-Apr-05	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.34	
26-Apr-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.17	0.20	
27-Apr-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	0.17	0.20	
28-Apr-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	0.22	
29-Apr-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.17	0.20	
30-Apr-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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.31	0.45	
	0.5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.46		
Hourly Avg	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.28	0.28	0.28	0.28	0.26	0.25	0.24	0.23	0.21	0.20	0.20	0.20	0.20	0.21	0.22	0.22	0.23	0.24			
Hourly Max	0.49	0.49	0.51	0.52	0.53	0.56	0.58	0.61	0.62	0.64	0.65	0.42	0.40	0.38	0.34	0.35	0.36	0.38	0.39	0.40	0.41	0.43	0.44	0.45				



Concentration Rose for the 1-hr CO Average Concentration Occurrences at the
Crescent Heights Site for April 2005



Frequency Distribution of CO in ppm			
Range		Frequency (hrs)	
0	<	0.1	7
0.1	to	1	670
1	to	2.5	1
2.5	to	5	0
5	to	13	0
> 13		0	
Total Non-Zero Values		678	

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%	



PAS - Crescent Heights Total Hydrocarbon Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	3.0 ppm
Maximum 24-hr Average:	2.2 ppm

25-Apr 5-Apr 5:00 6:00

HOURLY AVERAGE TABLE

Total HydroCarbons (THC)

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

AIC Time:	33 hrs	Operational Time:	685 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	2.6	2.3	2.0
	50	50	50
	25	25	25
	5	5	5
	1	1	1

Average 1.96 ppb

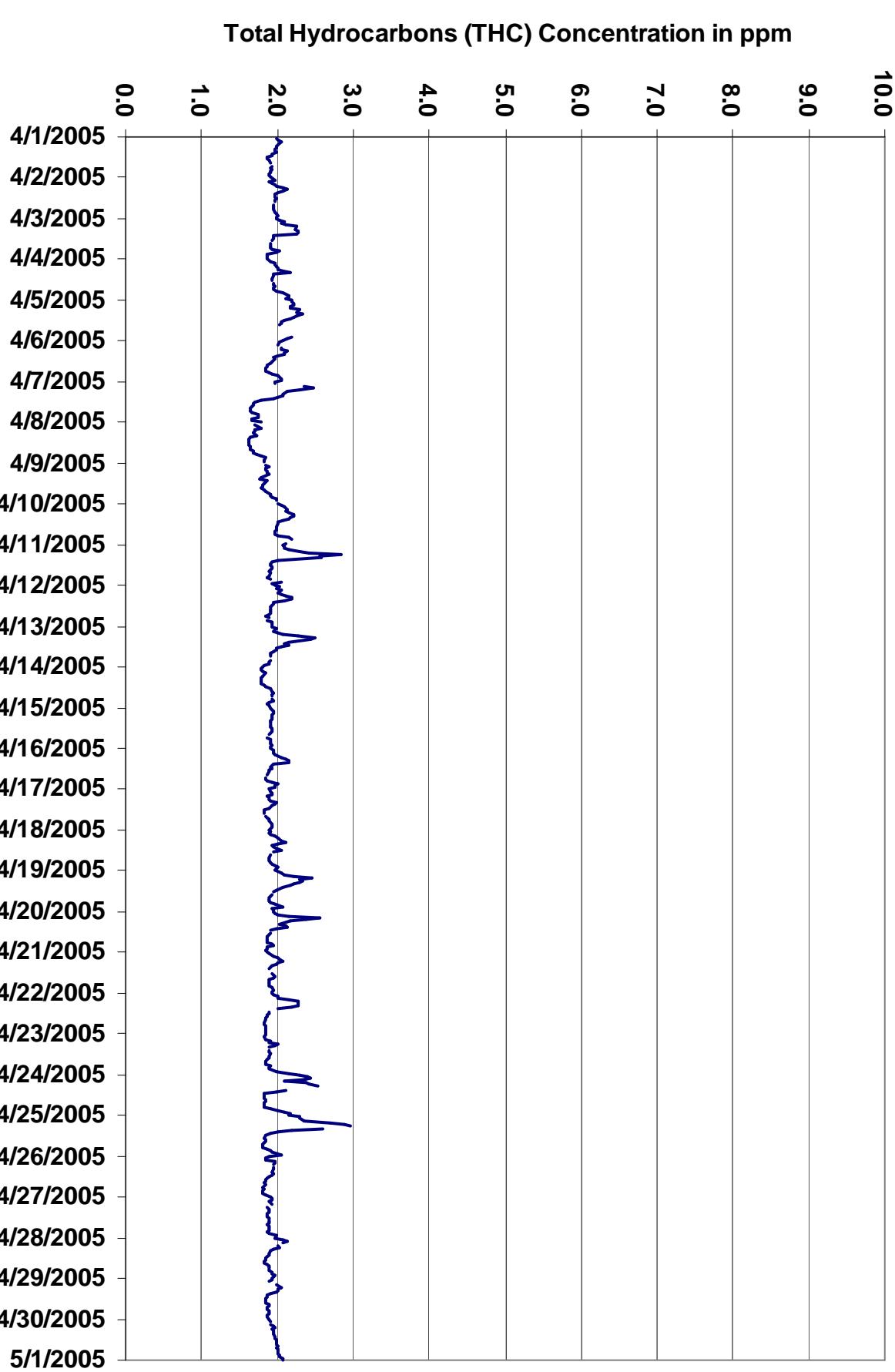
Status Flag Characters

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 1:00	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-Apr-05	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.05	
2-Apr-05	2.0	1.9	1.9	2.0	2.0	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	2.0	2.0	2.0	2.0	2.0	1.98	2.13	
3-Apr-05	2.0	2.1	2.1	2.3	2.2	2.3	2.3	2.3	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.02	2.28	
4-Apr-05	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.01	2.20	
5-Apr-05	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.16	2.34	
6-Apr-05	2.0	2.0	A	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.0	2.0	1.97	2.12	
7-Apr-05	2.0	A	2.3	2.5	2.3	2.1	2.1	2.1	2.0	1.9	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.87	2.48	
8-Apr-05	A	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.70	1.84	
9-Apr-05	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.86	2.01	
10-Apr-05	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	A	2.1	2.1	2.07	2.21
11-Apr-05	2.1	2.1	2.1	2.3	2.4	2.8	2.6	2.6	2.6	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	2.08	2.85
12-Apr-05	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.98	2.20	
13-Apr-05	2.0	2.0	1.9	2.0	2.1	2.3	2.5	2.4	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	2.03	2.50
14-Apr-05	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.86	1.95	
15-Apr-05	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	1.96	
16-Apr-05	1.9	1.9	1.9	2.0	2.1	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.95	2.16	
17-Apr-05	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.8	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90	1.99	
18-Apr-05	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.96	2.10		
19-Apr-05	2.0	2.1	2.2	2.4	2.3	2.3	2.2	2.2	2.1	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.9	1.9	2.06	2.45	
20-Apr-05	2.0	2.0	2.1	2.5	2.4	2.2	2.0	2.1	2.1	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.00	2.55	
21-Apr-05	1.9	1.9	2.0	2.0	2.1	2.0	1.9	1.9	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.07	
22-Apr-05	2.0	2.0	2.0	2.1	2.3	2.3	2.3	2.2	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.96	2.28	
23-Apr-05	1.9	1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	2.30	
24-Apr-05	2.4	2.4	2.4	2.1	2.4	2.4	2.5	A	2.1	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.06	2.54	
25-Apr-05	2.3	2.3	2.4	2.7	2.9	3.0	A	2.6	2.2	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.91	2.96	
26-Apr-05	1.8	1.8	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.88	1.97	
27-Apr-05	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.89	1.98	
28-Apr-05	2.1	2.1	2.1	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.93	2.12	
29-Apr-05	1.9	1.9	A	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90	2.05	
30-Apr-05	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.98	2.07	
																										N	0.00	
Hourly Avg	1.99	1.99	2.03	2.07	2.10	2.12	2.09	2.08	1.99	1.94	1.92	1.90	1.89	1.88	1.87	1.87	1.87	1.87	1.87	1.89	1.92	1.93	1.94	1.95	1.96			
Hourly Max	2.38	2.43	2.36	2.69	2.89	2.96	2.55	2.60	2.26	2.21	2.16	2.09	2.04	2.04	2.03	2.00	1.99	2.02	2.03	2.14	2.19	2.19	2.17	2.30				

Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend





Station: Crescent Heights

HOURLY MAXIMUM TABLE

Station Owner: PAS

Monitoring Dates: April 1, 2005 **to** May 1, 2005

Maximum 1-hr Value: 4.0 ppm 19-Apr 3:00 4:00
Maximum 24-hr Value: 2.3 ppm 25-Apr

AIC Time:	33 hrs	Operational Time:	685 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	3.0	2.5	2.1
	50	25	5
	2.0	1.9	1.8
	1	1.7	
			Average
			2.0 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 0:00	1:00 2:00	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-Apr-05	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	A	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.98	2.09		
2-Apr-05	2.1	1.9	2.0	2.1	2.1	2.2	2.3	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	2.0	2.0	2.0	2.0	2.2	2.04	2.26	
3-Apr-05	2.1	2.2	2.1	2.2	2.4	2.3	2.4	2.5	2.6	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	2.0	2.0	2.1	2.2	1.9	1.9	1.9	1.9	2.10	2.64	
4-Apr-05	1.9	2.1	2.1	2.0	2.2	2.2	2.3	2.3	2.1	2.0	2.0	2.0	2.0	A	2.1	2.0	2.0	2.0	2.1	2.2	2.3	2.2	2.1	2.3	2.10	2.34		
5-Apr-05	2.3	2.2	2.3	2.2	2.2	2.6	2.4	2.4	2.3	2.2	2.4	2.1	2.1	2.1	C	C	A	A	2.0	A	2.3	2.3	2.1	2.1	2.24	2.57		
6-Apr-05	2.1	2.1	A	2.1	2.1	2.5	2.1	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.1	2.2	2.2	2.0	2.06	2.49		
7-Apr-05	2.2	A	3.2	3.1	2.6	2.3	2.3	2.2	2.1	2.1	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.9	1.8	1.9	1.8	1.7	1.8	2.04	3.20		
8-Apr-05	A	1.8	2.0	1.8	1.7	1.7	1.8	1.8	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.7	2.0	2.1	1.9	1.9	A	1.78	2.10		
9-Apr-05	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1	A	2.1	1.92	2.11		
10-Apr-05	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.5	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.5	A	2.1	2.1	2.14	2.53		
11-Apr-05	2.2	2.2	2.2	2.4	2.7	3.8	2.9	3.0	2.3	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.1	2.0	2.0	2.1	3.77	
12-Apr-05	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.3	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	A	1.9	1.9	2.06	2.41		
13-Apr-05	2.1	2.0	2.0	2.2	2.2	2.5	2.8	2.6	2.2	2.1	2.4	2.1	2.0	2.1	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.8	2.12	2.85		
14-Apr-05	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.91	2.08
15-Apr-05	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	1.99	
16-Apr-05	2.0	2.0	2.0	2.1	2.2	2.2	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	1.9	2.00	2.26	
17-Apr-05	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.0	1.9	1.9	1.8	1.8	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.94	2.06		
18-Apr-05	2.0	1.9	2.0	2.0	2.1	2.2	2.3	2.1	2.0	2.0	2.1	2.2	2.0	A	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.04	2.28		
19-Apr-05	2.1	2.2	2.9	4.0	2.5	2.6	2.5	2.3	2.2	2.2	2.1	2.0	2.0	A	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.2	2.0	2.0	2.23	4.01		
20-Apr-05	2.0	2.1	2.2	2.7	2.8	2.4	2.1	2.3	2.3	2.0	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	1.9	1.9	1.9	2.09	2.84	
21-Apr-05	1.9	2.0	2.1	2.1	2.2	2.0	2.0	2.0	1.9	1.9	A	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.99	2.24		
22-Apr-05	2.1	2.0	2.1	2.2	2.6	2.6	2.4	2.5	2.2	A	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.05	2.57		
23-Apr-05	1.9	1.9	1.9	2.1	1.9	2.2	2.2	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.1	2.4	2.49				
24-Apr-05	2.5	2.5	2.5	2.3	2.5	2.5	2.6	A	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	2.0	2.1	2.2	2.2	2.14	2.65	
25-Apr-05	2.4	2.5	2.6	2.8	3.2	3.3	A	3.1	2.4	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.1	2.25	3.29	
26-Apr-05	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.6	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.95	2.62	
27-Apr-05	2.0	2.0	1.9	2.1	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.96	2.16		
28-Apr-05	2.1	2.2	2.1	A	2.1	2.1	2.0	1.9	2.0	2.1	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	2.0	2.00	2.19		
29-Apr-05	2.0	1.9	A	2.0	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.10		
30-Apr-05	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.04	2.24		
	Hourly Avg	2.05	2.05	2.15	2.22	2.22	2.28	2.21	2.11	2.02	1.99	1.95	1.93	1.95	1.92	1.90	1.91	1.91	1.95	2.01	2.03	2.00	2.02	2.02	N	0.00		
	Hourly Max	2.49	2.54	3.20	4.01	3.23	3.77	2.86	3.11	2.64	2.62	2.40	2.22	2.09	2.10	2.12	2.05	2.05	2.08	2.14	2.24	2.53	2.30	2.43	2.49			

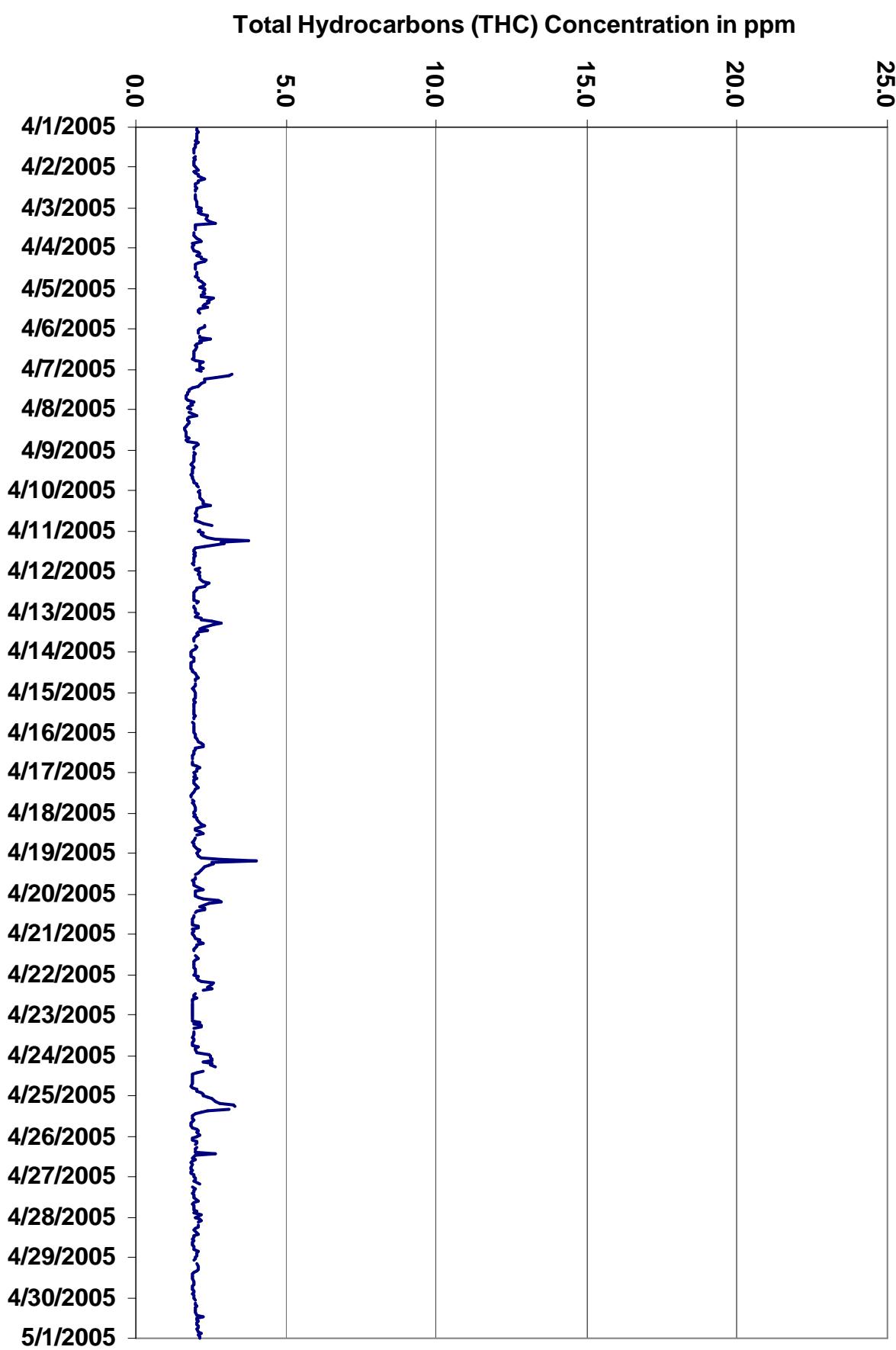


Figure 10. PAS - Crescent Heights Total Hydrocarbons 1-hr Maximum Value Monthly Trend



PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	21.4 µg/m³
Maximum 24-hr Average:	5.1 µg/m³

20-Apr 8:00 9:00
 5-Apr

AIC Time:	0 hrs	Operational Time:	686 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	95.8%						
Percentile	99 12.5	95 7.5	75 3.6	50 2.0	25 0.8	5 0.0	1 0.0	Average 2.7 µg/m³	Geomean 2.4 µg/m³

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Guideline Limit Canada Wide Standard 1-hr - 24-hr 30 µg/m³ µg/m³

(considered as an absolute value)

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Apr-05	1	0	0	1	0	0	0	2	1	1	3	4	1	3	1	6	1	15	0	0	0	1	0	1	1.7	14.8
2-Apr-05	1	1	21	1	1	1	1	1	1	0	0	0	D	0	0	0	3	0	2	1	1	1	1	1	1.7	21.0
3-Apr-05	1	2	2	2	0	2	3	4	1	1	0	1	1	2	4	2	2	1	1	1	1	1	1	0	1.5	4.2
4-Apr-05	1	0	1	1	3	3	4	3	3	3	1	0	1	1	3	3	4	4	5	6	6	5	8	7	3.1	7.9
5-Apr-05	7	7	9	9	11	11	10	9	6	3	1	1	0	D	0	C	2	2	2	6	5	4	2	5.1	10.6	
6-Apr-05	2	2	2	3	2	2	4	7	3	2	3	3	2	1	2	2	3	3	5	7	7	5	2	3.2	7.3	
7-Apr-05	3	2	1	0	1	2	4	4	4	2	0	0	0	0	1	0	1	2	9	8	7	6	4	5	2.8	9.1
8-Apr-05	3	3	3	3	3	3	7	0	1	0	0	2	0	0	1	2	2	4	10	10	6	5	3	3.1	10.2	
9-Apr-05	0	0	0	0	0	1	1	0	1	2	1	0	2	1	0	1	0	0	1	2	1	2	0	0.8	2.4	
10-Apr-05	2	1	1	1	1	1	1	2	2	2	0	0	0	0	0	0	0	0	1	2	4	6	3	2	1.4	5.7
11-Apr-05	2	1	1	0	1	2	3	9	1	2	2	2	2	3	4	3	2	5	6	7	7	3	3	3.1	8.8	
12-Apr-05	3	3	2	1	2	11	4	7	4	0	1	0	0	1	2	2	3	6	6	13	5	5	3	3.6	12.5	
13-Apr-05	2	0	0	2	2	2	5	9	1	2	0	0	1	2	1	1	2	3	1	2	1	0	0	1.9	8.7	
14-Apr-05	1	3	4	2	4	2	0	0	0	0	0	0	3	5	5	4	3	4	3	1	1	0	0	0	1.9	5.1
15-Apr-05	0	1	0	0	0	0	1	2	0	0	0	0	0	0	2	1	1	3	4	3	2	1	1.1	4.5		
16-Apr-05	2	1	1	1	1	1	3	2	0	2	1	0	0	0	0	0	0	0	2	3	4	3	4	1.4	4.4	
17-Apr-05	2	1	1	0	0	3	2	3	2	2	1	0	2	3	2	2	1	1	19	2	0	2	2	2.4	18.7	
18-Apr-05	4	2	1	1	3	4	6	1	3	4	2	0	0	0	0	1	1	0	1	3	1	2	2	1.8	6.0	
19-Apr-05	3	1	2	2	2	3	4	5	2	0	0	0	0	0	1	1	1	1	2	4	4	3	2	1.8	4.9	
20-Apr-05	1	1	1	2	1	6	5	8	21	8	0	1	0	1	1	0	0	0	4	8	3	3	4	3.5	21.4	
21-Apr-05	1	2	2	1	3	2	3	5	3	0	2	2	4	5	4	2	3	2	2	2	2	3	1	2.4	5.4	
22-Apr-05	1	1	1	2	0	2	6	4	2	3	1	1	2	0	1	0	2	1	1	5	4	2	3	2.1	5.8	
23-Apr-05	2	2	3	3	3	5	7	6	4	2	2	2	3	2	2	3	3	5	6	9	6	11	13	4.5	12.6	
24-Apr-05	7	7	9	6	5	6	8	6	4	6	3	1	2	1	0	0	0	2	2	4	4	5	4	4.1	9.3	
25-Apr-05	6	5	4	8	D	D	10	8	5	4	0	1	1	2	3	3	4	3	3	5	5	7	3	4.3	9.7	
26-Apr-05	4	4	7	7	3	5	4	4	2	19	0	0	0	1	1	2	5	4	5	5	4	D	D	4.1	18.6	
27-Apr-05	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	14	10	8	7	7	6	4	4	N	4.5	
28-Apr-05	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	14	10	8	7	7	6	4	4	N	13.5	
29-Apr-05	3	3	2	4	3	6	4	3	1	0	6	2	3	4	5	3	8	7	7	4	3	2	3	3.7	7.8	
30-Apr-05	2	2	2	1	1	3	2	1	3	3	3	3	3	3	3	3	3	3	2	4	2	2	2	2.3	3.5	
																								N	0.0	
Hourly Avg	2.3	2.0	3.0	2.3	2.1	3.1	3.8	4.4	3.0	2.7	1.1	0.9	1.3	1.6	1.6	2.2	2.5	2.9	3.9	4.3	3.9	3.3	3.2	2.8		
Hourly Max	7.1	7.4	21.0	9.4	10.5	10.9	10.1	8.9	21.4	18.6	5.5	3.8	3.9	5.4	4.6	13.5	9.6	14.8	18.7	12.5	10.0	7.3	10.7	12.6		

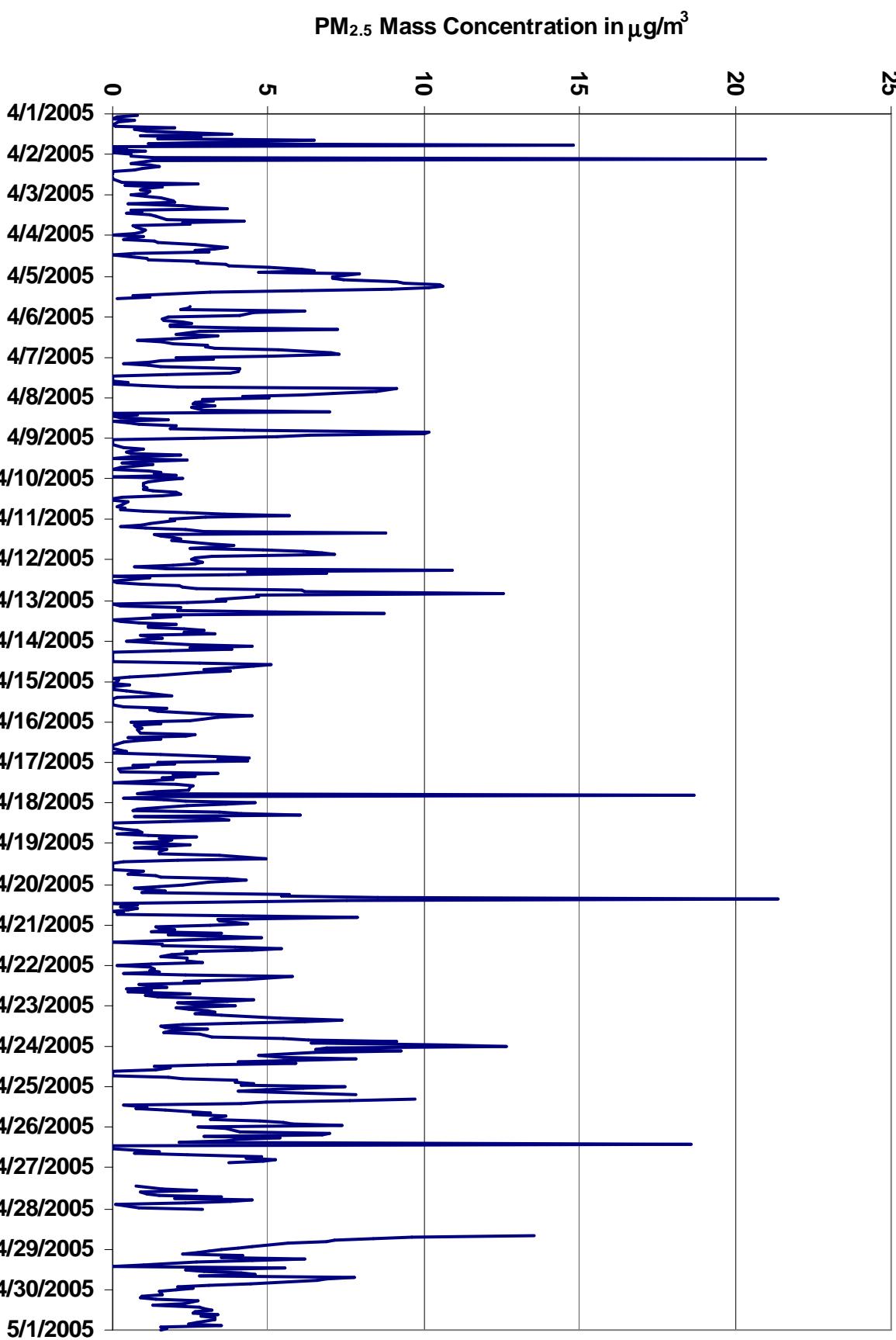


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights

HOURLY MAXIMUM TABLE**Particulate Matter (PM_{2.5})**

Station Owner: PAS

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

Maximum 1-hr Value:	105.3	µg/m ³	17-Apr	18:00 19:00
Maximum 24-hr Value:	12.1	µg/m ³	26-Apr	

AIC Time:	0 hrs	Operational Time:	686 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	95.8%						
Percentile	99 24.6	95 13.4	75 8.3	50 6.1	25 4.4	5 2.5	1 1.9	Average 7.2 µg/m ³	Geomean 6.9 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

	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-Apr-05	3	3	8	7	2	2	3	5	3	5	6	10	5	11	5	10	5	92	3	3	1	4	1	5	8.4	91.7	
2-Apr-05	5	5	79	5	6	7	8	4	5	2	2	1	D	4	2	4	17	4	4	4	4	4	4	2	7.9	79.3	
3-Apr-05	3	3	4	3	3	6	5	7	4	4	4	6	6	5	8	6	6	4	3	4	3	4	4	2	4.4	7.9	
4-Apr-05	3	2	3	3	4	7	14	6	5	6	4	4	4	5	7	7	7	8	10	11	10	10	10	10	6.6	13.8	
5-Apr-05	10	10	12	13	13	14	14	12	10	7	4	5	3	D	3	C	C	6	6	6	10	8	8	6	8.6	14.0	
6-Apr-05	5	4	5	6	5	6	9	10	8	5	8	6	5	5	5	8	7	8	9	13	13	8	5	6.9	12.6		
7-Apr-05	10	5	5	3	2	4	7	8	8	6	5	5	6	5	4	5	5	6	14	14	12	12	7	9	7.0	14.0	
8-Apr-05	6	6	5	5	6	7	6	19	8	5	5	7	7	4	4	4	6	7	7	24	18	10	9	6	7.9	23.8	
9-Apr-05	2	1	2	3	2	3	2	2	3	4	4	4	10	5	4	5	6	3	3	4	3	3	2	5	3.5	10.2	
10-Apr-05	4	2	2	2	2	3	4	5	14	5	6	3	5	5	6	5	5	5	5	6	7	10	7	5	5.0	14.2	
11-Apr-05	6	4	5	4	5	5	8	13	8	5	7	6	7	8	8	7	11	15	11	12	9	6	7	7.7	14.7		
12-Apr-05	10	10	5	5	5	36	8	12	8	5	5	3	4	6	7	6	14	12	27	8	10	9	10	9.6	35.6		
13-Apr-05	7	2	4	6	5	5	11	18	13	12	7	6	6	7	7	6	8	6	8	8	12	6	7	7.6	18.1		
14-Apr-05	5	6	10	8	7	7	1	2	2	2	2	4	8	10	7	6	7	10	7	6	4	2	3	4	5.4	10.4	
15-Apr-05	3	3	2	3	3	3	3	6	4	3	3	4	4	4	7	8	7	6	10	7	6	5	3	4.7	9.6		
16-Apr-05	5	4	3	6	5	4	8	7	5	5	4	4	4	4	3	3	5	4	7	7	8	7	9	6	5.4	9.1	
17-Apr-05	5	3	4	3	5	17	11	14	6	6	6	6	6	8	7	8	7	4	105	5	3	8	10	10	11.1	105.3	
18-Apr-05	8	9	4	5	10	10	10	8	10	8	7	4	4	4	6	7	5	5	6	6	5	5	4	6.4	10.5		
19-Apr-05	5	3	5	5	5	3	6	8	9	7	4	4	5	6	3	6	6	5	6	6	7	7	6	5	5.4	8.6	
20-Apr-05	5	5	5	6	5	13	9	22	28	16	6	7	4	6	8	5	8	9	10	14	7	7	9	9.1	28.1		
21-Apr-05	4	4	4	3	9	4	6	8	7	7	6	7	10	9	9	7	6	7	6	6	6	5	3	6.3	9.6		
22-Apr-05	4	3	5	6	3	9	10	8	7	8	6	5	7	8	11	6	7	5	6	8	7	5	7	6.6	10.7		
23-Apr-05	5	5	6	6	6	6	10	12	12	10	7	5	9	9	9	6	7	7	10	10	13	10	16	8.8	16.4		
24-Apr-05	10	10	14	10	9	9	15	16	10	13	9	8	8	6	3	5	6	9	8	7	7	8	8	9.1	16.5		
25-Apr-05	10	9	8	14	D	D	16	13	11	12	5	8	4	6	7	8	9	8	9	12	10	11	8	9.4	15.5		
26-Apr-05	6	9	11	10	7	10	9	9	5	105	3	2	4	6	5	7	9	12	10	8	8	D	D	12.1	104.5		
27-Apr-05	D	D	D	D	D	D	D	D	D	D	5	8	10	10	7	7	6	9	6	8	4	4	7	N	10.4		
28-Apr-05	D	D	D	D	D	D	D	D	D	D	24	4	5	7	8	5	12	11	10	6	5	4	6	N	19.4		
29-Apr-05	5	6	5	6	6	9	7	5	4	3	24	4	5	7	8	5	12	11	10	6	5	4	6	6.9	24.2		
30-Apr-05	5	4	4	3	3	3	5	6	4	5	7	5	5	4	5	4	6	5	5	4	7	3	4	4.6	6.8		
																								N	0.0		

Hourly Avg	5.7	5.1	8.2	5.7	5.3	7.8	7.9	9.4	7.5	10.4	5.8	5.4	5.8	6.2	6.2	6.6	7.3	9.8	10.9	8.4	7.6	7.1	6.8	6.3
Hourly Max	10.4	9.9	79.3	14.0	13.1	35.6	15.5	21.7	28.1	104.5	24.2	10.0	10.4	10.8	10.7	19.4	17.1	91.7	105.3	26.6	17.6	12.6	16.4	15.2

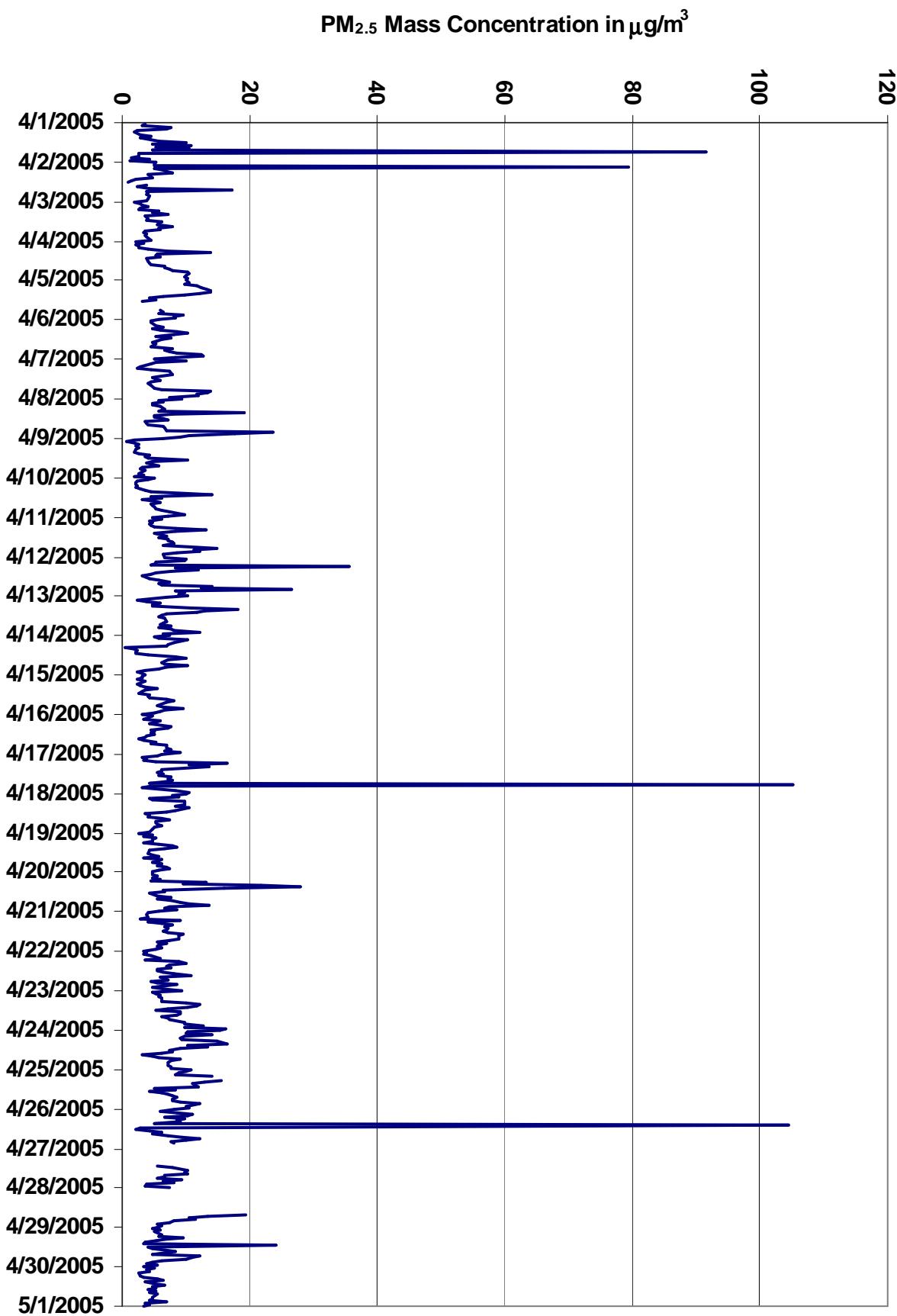
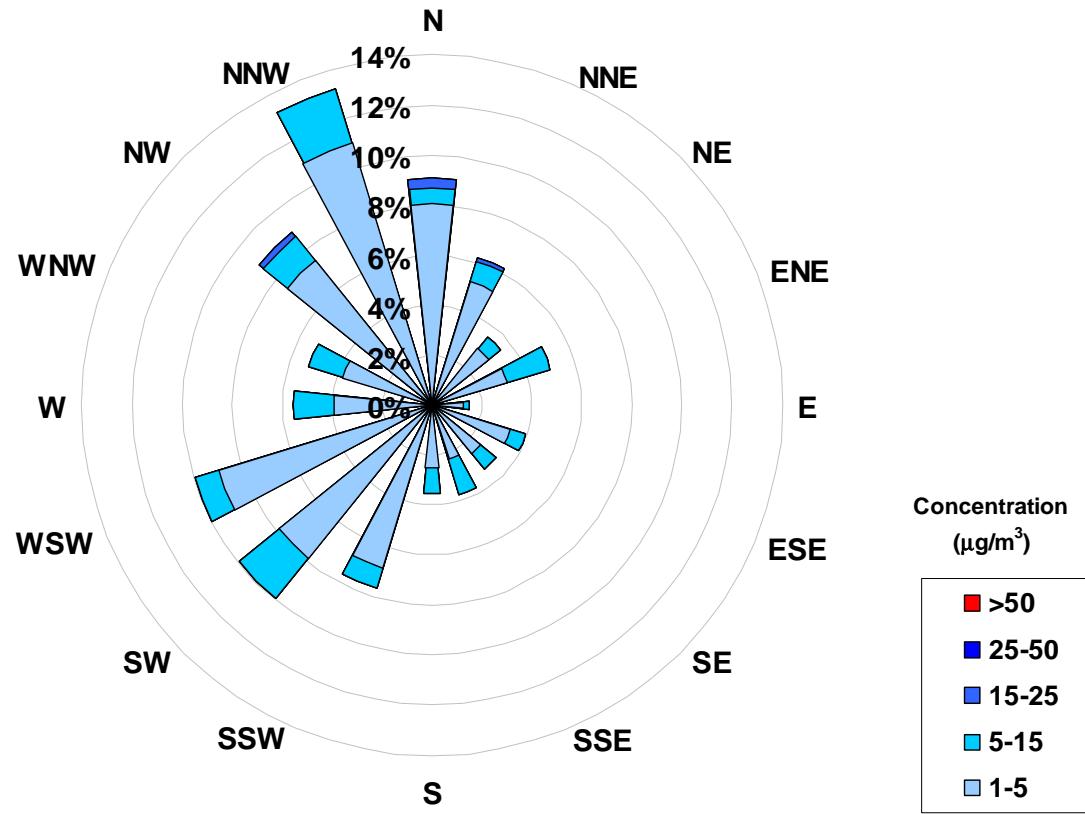


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly



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



Frequency Distribution of PM _{2.5} in $\mu\text{g}/\text{m}^3$			
Range		Frequency (hrs)	
0	< 1	197	
1	to 5	392	
5	to 15	93	
15	to 25	4	
25	to 50	0	
	> 50	0	
Total Non-Zero Values		686	

Calms		
Range	$\mu\text{g}/\text{m}^3$	
1-5	0.0%	
5-15	0.0%	
15-25	0.0%	
25-50	0.0%	
>50	0.0%	



PAS - Crescent Heights Meteorological Parameters Monthly Summary

Station: Crescent Heights

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	93.8 %
Maximum 24-hr Average:	83.8 %

13-Apr 6:00 7:00
14-Apr

AIC Time:	0 hrs	Operational Time:	720 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%							
Percentile	99	95	75	50	25	5	1	Average		
	92.5	82.8	65.6	52.5	32.8	21.3	17.3	51.0 ppb		

HOURLY AVERAGE TABLE

Relative Humidity (RH - %)

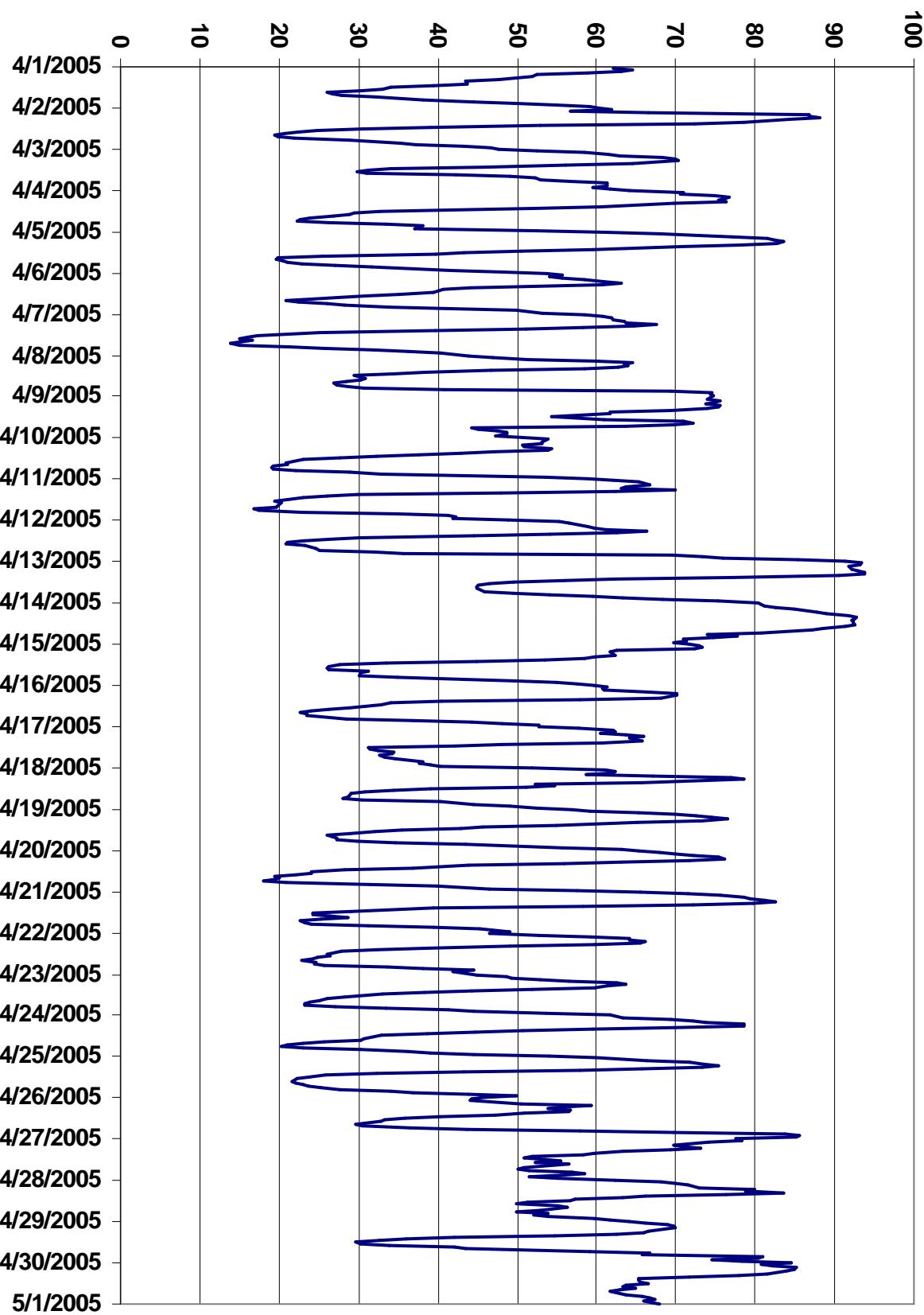
Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Apr-05	62	65	63	59	52	52	48	43	44	44	40	34	33	30	26	27	28	32	38	44	50	55	59	60	45	65	
2-Apr-05	62	57	67	87	87	88	84	79	72	53	39	30	25	23	21	19	20	22	29	35	37	43	47	48	49	88	
3-Apr-05	53	59	62	63	68	70	70	65	56	46	34	31	30	31	42	49	52	53	57	61	61	60	62	64	54	70	
4-Apr-05	71	71	75	77	76	75	76	70	61	52	42	33	29	29	27	24	23	22	26	33	38	37	52	61	49	77	
5-Apr-05	68	73	77	82	82	84	83	78	71	59	51	43	40	25	25	20	20	20	21	23	27	32	42	48	54	51	84
6-Apr-05	56	54	56	58	61	63	61	53	44	41	40	35	31	27	24	21	22	26	28	34	42	50	53	59	43	63	
7-Apr-05	61	62	62	63	64	68	65	58	51	40	25	17	16	15	17	15	14	15	21	26	32	36	40	44	39	68	
8-Apr-05	47	51	60	65	64	64	63	58	47	38	34	30	31	30	28	27	27	29	31	41	69	75	74	75	48	75	
9-Apr-05	74	76	75	74	76	75	74	69	62	62	58	54	61	71	72	70	64	44	45	48	49	49	47	51	62	76	
10-Apr-05	54	53	53	51	51	54	54	47	43	38	32	28	23	21	21	19	19	19	22	29	33	43	54	59	38	59	
11-Apr-05	62	65	67	64	63	70	62	48	30	26	23	21	19	20	20	20	20	17	23	35	41	42	42	49	39	70	
12-Apr-05	55	56	59	60	61	66	63	54	44	30	26	23	21	21	23	25	25	32	36	69	73	76	85	91	49	91	
13-Apr-05	93	93	92	92	93	94	94	91	77	62	56	49	46	45	45	45	46	50	54	59	63	68	75	80	69	94	
14-Apr-05	81	81	83	85	88	89	92	93	93	92	92	93	91	89	87	81	74	78	75	71	71	70	72	84	93		
15-Apr-05	73	73	72	62	62	62	60	59	53	45	33	28	26	26	26	31	30	30	35	43	49	55	58	48	73		
16-Apr-05	61	61	61	67	70	70	68	58	40	34	33	31	29	26	24	23	23	23	28	37	44	48	53	44	70		
17-Apr-05	58	62	62	60	64	66	64	66	61	48	42	31	31	32	34	34	33	33	35	38	38	39	40	52	47	66	
18-Apr-05	61	62	62	59	67	77	79	66	52	55	51	39	34	31	29	29	29	28	30	40	45	49	53	49	79		
19-Apr-05	59	65	70	72	75	77	73	65	55	46	43	35	32	29	26	27	27	27	30	35	43	56	63	50	77		
20-Apr-05	68	70	72	75	76	72	63	56	44	37	28	24	24	22	19	20	20	18	21	31	40	47	57	45	76		
21-Apr-05	72	75	79	79	81	83	80	72	58	39	29	24	24	26	29	25	23	23	24	31	39	45	49	46	48	83	
22-Apr-05	53	59	64	64	66	65	60	49	39	32	28	26	26	25	24	23	25	24	26	34	38	45	42	45	41	66	
23-Apr-05	49	49	53	56	63	64	61	60	52	44	38	33	28	26	25	24	23	23	27	34	41	45	54	46	43	64	
24-Apr-05	63	69	72	74	78	78	70	60	51	45	39	33	31	30	26	23	21	20	23	30	36	39	44	54	46	78	
25-Apr-05	60	66	72	74	75	73	66	58	43	32	26	24	22	22	23	24	25	28	34	37	44	50	46	44	75		
26-Apr-05	44	44	50	59	56	54	57	57	51	47	40	36	33	33	30	30	36	44	58	70	84	86	85	53	86		
27-Apr-05	78	74	70	71	73	69	63	60	58	52	51	53	55	52	56	51	50	52	57	59	56	52	55	62	60	78	
28-Apr-05	68	70	71	73	80	79	84	76	66	63	57	57	51	50	55	56	53	50	54	52	54	60	62	64	63	84	
29-Apr-05	66	69	70	70	66	66	63	55	42	36	33	30	30	34	42	44	59	67	66	81	80	75	78	85	59	85	
30-Apr-05	81	82	85	85	84	82	78	72	65	65	66	67	64	63	65	63	62	64	66	67	66	67	68	71	85		
Hourly Avg	64	66	68	69	71	72	69	63	54	47	41	36	35	34	34	33	33	34	37	44	49	53	57	61			
Hourly Max	93	93	92	92	93	94	94	93	93	92	92	92	93	91	89	87	81	74	78	81	84	86	85	91			

Relative Humidity in %

Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend





Station: Crescent Heights

HOURLY AVERAGE TABLE

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	26.1 °C
Maximum 24-hr Average:	16.5 °C

7-Apr 16:00 17:00
7-Apr

AIC Time:	0 hrs	Operational Time:	720 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%							
Percentile	99	95	75	50	25	5	1	Average		
	22.6	20.0	13.5	8.3	3.5	-1.7	-3.5		8.7	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

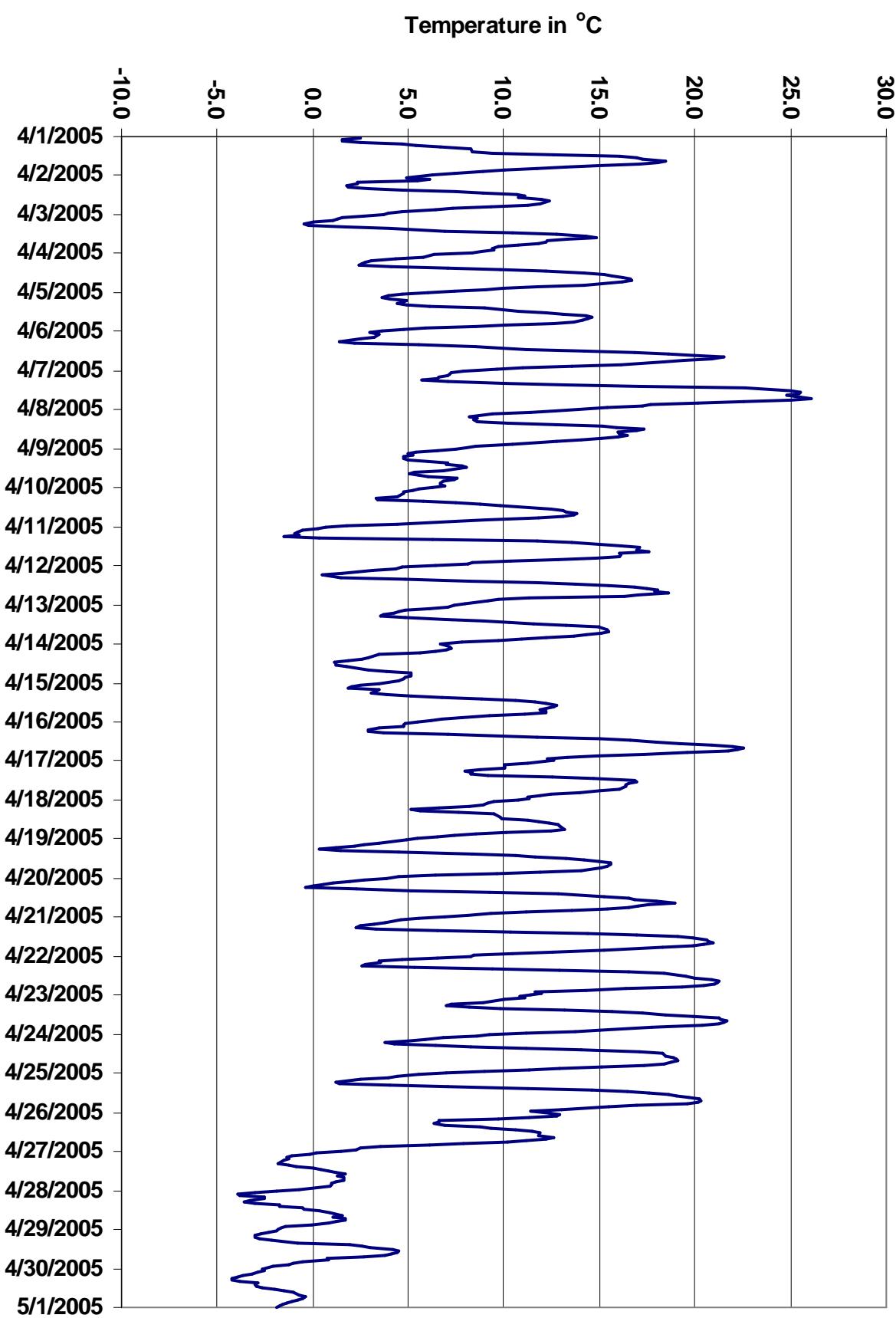
Day Mountain Standard Time

	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 Maximum	
Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
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-Apr-05	2	2	2	2	5	5	7	8	8	9	13	16	17	17	18	18	17	15	13	12	10	9	7	6	10.0	18.5	
2-Apr-05	5	6	5	2	2	2	2	3	5	7	9	11	11	11	12	12	12	11	9	7	6	5	4	4	6.8	12.4	
3-Apr-05	3	2	1	1	0	0	0	2	4	7	10	13	14	15	13	12	12	12	11	10	9	10	9	8	7.4	14.9	
4-Apr-05	6	6	4	3	3	3	2	4	7	10	12	14	15	16	16	17	17	16	14	12	10	9	7	6	9.6	16.7	
5-Apr-05	5	4	4	4	5	5	4	5	6	9	11	12	13	14	15	14	14	14	13	10	9	6	5	4	8.5	14.6	
6-Apr-05	3	3	3	2	2	1	2	6	9	10	11	14	17	19	20	22	21	19	18	16	14	11	10	8	7	10.9	21.5
7-Apr-05	7	7	7	7	6	7	10	13	17	23	25	25	25	25	26	26	26	25	23	20	18	17	15	14	16.5	26.1	
8-Apr-05	13	11	9	8	9	8	9	10	13	15	16	17	17	16	16	16	16	16	15	14	13	10	8	8	7	12.3	17.3
9-Apr-05	7	5	5	5	5	5	5	6	7	7	8	8	7	5	5	6	6	8	7	7	7	7	7	6	6.2	8.1	
10-Apr-05	6	5	5	5	4	3	3	6	8	9	10	11	12	13	13	14	14	13	12	9	8	4	2	1	7.9	13.8	
11-Apr-05	0	-1	-1	-1	-1	-1	0	6	12	14	15	16	17	17	18	16	16	16	15	13	10	8	8	6	9.1	17.5	
12-Apr-05	5	4	3	2	2	1	1	5	8	12	14	15	17	17	18	18	19	17	16	11	10	9	8	7	10.0	18.6	
13-Apr-05	7	6	5	4	4	4	4	5	7	9	10	12	13	15	15	15	15	14	14	12	11	10	8	7	9.4	15.5	
14-Apr-05	7	7	7	7	6	6	4	3	3	2	1	1	1	2	2	3	4	5	5	5	5	5	4	3	4.1	7.2	
15-Apr-05	2	2	2	3	3	3	4	5	7	9	11	12	12	13	13	12	12	12	11	9	8	7	6	5	7.6	12.8	
16-Apr-05	5	5	5	3	3	3	4	7	12	15	17	18	19	21	22	23	22	22	20	17	15	13	12	13	13.1	22.5	
17-Apr-05	11	10	10	10	9	8	8	8	9	13	15	17	17	17	16	16	16	15	14	12	12	11	11	11	12.4	17.0	
18-Apr-05	10	9	9	8	7	5	6	8	9	10	10	11	12	12	13	13	13	13	12	10	8	7	7	5	9.5	13.1	
19-Apr-05	5	3	3	2	1	0	1	5	8	11	12	13	14	15	16	16	15	15	14	12	10	6	5	4	8.6	15.6	
20-Apr-05	3	2	1	1	0	0	2	5	9	13	15	17	17	18	19	18	17	17	15	14	11	9	8	7	9.9	19.0	
21-Apr-05	6	5	4	3	3	2	3	7	10	14	17	19	20	21	21	21	20	18	15	13	10	8	8	8	12.0	20.9	
22-Apr-05	7	5	3	4	3	3	5	9	13	17	18	20	20	21	21	21	20	19	16	14	12	12	11	11	13.1	21.2	
23-Apr-05	11	11	10	9	7	7	8	10	13	16	17	18	20	21	21	22	22	21	20	18	15	14	11	9	14.7	21.7	
24-Apr-05	9	7	6	5	4	4	6	8	11	14	17	18	18	19	19	19	19	18	17	15	13	11	9	7	12.3	19.1	
25-Apr-05	6	4	4	3	1	1	4	7	11	15	16	18	19	19	20	20	20	20	17	16	13	11	12	12	12.4	20.3	
26-Apr-05	13	13	11	10	7	7	6	7	9	9	11	11	12	12	13	12	11	10	8	6	4	2	2	1	8.6	13.0	
27-Apr-05	0	0	-1	-1	-2	-2	-1	-1	0	0	1	1	2	1	2	2	2	1	1	1	1	-1	-2	-2	0.1	1.7	
28-Apr-05	-3	-4	-4	-3	-3	-3	-4	-3	-2	-2	-1	0	0	1	2	1	2	2	1	1	0	-1	-2	-2	-1.1	1.7	
29-Apr-05	-2	-2	-3	-3	-3	-3	-2	-1	2	3	3	4	4	4	4	4	4	3	1	1	-1	-1	-2	-3	0.3	4.5	
30-Apr-05	-3	-3	-3	-4	-4	-4	-4	-4	-3	-3	-3	-3	-2	-2	-1	-1	0	-1	-1	-1	-1	-2	-2	-2	-2.3	-0.4	
																								N	0.0		

Hourly Avg	5.1	4.5	3.9	3.4	2.9	2.6	3.2	5.2	7.6	9.6	11.3	12.7	13.3	17.1	22.6	25.1	25.5	25.4	24.8	25.5	26.1	25.0	22.5	20.1	17.7	17.3	15.4	13.9
Hourly Max	13.0	12.7	11.3	10.0	8.7	8.4	8.6	10.2	13.3	17.1	22.6	25.1	25.5	25.4	24.8	25.5	26.1	25.0	22.5	20.1	17.7	17.3	15.4	13.9				

Ambient Temperature (AT - °C)

Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend





Station: Crescent Heights

HOURLY AVERAGE TABLE**Solar Radiation (SR - W/m²)**

Station Owner: PAS

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	858.1 W/m ²
Maximum 24-hr Average:	300.7 W/m ²
20-Apr	12:00 13:00
25-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs	
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%	
Percentile	99	95	75	
	839.4	758.0	358.9	
		50	43.0	
		25	-1.2	
		5	-1.2	
		1	-1.2	
		Average		
			201.0 ppb	

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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-Apr-05	-1	-1	-1	-1	-1	15	79	87	192	424	535	393	468	590	443	253	105	26	-1	-1	-1	-1	-1	-1	150	590	
2-Apr-05	-1	-1	-1	-1	-1	57	186	355	508	502	726	597	387	608	548	359	184	35	-1	-1	-1	-1	-1	-1	210	726	
3-Apr-05	-1	-1	-1	-1	-1	42	169	285	375	613	630	586	348	169	102	127	114	27	-1	-1	-1	-1	-1	-1	149	630	
4-Apr-05	-1	-1	-1	-1	-1	46	205	384	543	669	754	776	734	661	536	385	221	30	-1	-1	-1	-1	-1	-1	247	776	
5-Apr-05	-1	-1	-1	-1	-1	25	82	260	539	674	764	768	673	590	424	316	170	54	-1	-1	-1	-1	-1	-1	222	768	
6-Apr-05	-1	-1	-1	-1	-1	60	162	194	176	283	567	672	653	660	524	226	132	29	-1	-1	-1	-1	-1	-1	180	672	
7-Apr-05	-1	-1	-1	-1	-1	2	105	237	359	418	628	693	581	542	392	356	270	105	41	-1	-1	-1	-1	-1	-1	197	693
8-Apr-05	-1	-1	-1	-1	-1	0	40	150	178	535	369	613	427	458	286	211	117	58	17	-1	-1	-1	-1	-1	-1	143	613
9-Apr-05	-1	-1	-1	-1	-1	14	52	63	56	117	82	57	57	113	75	55	36	10	-1	-1	-1	-1	-1	-1	32	117	
10-Apr-05	-1	-1	-1	-1	-1	1	90	248	361	415	486	800	831	781	587	583	430	221	65	0	-1	-1	-1	-1	-1	245	831
11-Apr-05	-1	-1	-1	-1	-1	3	96	261	441	625	637	653	687	662	558	244	200	145	46	1	-1	-1	-1	-1	-1	219	687
12-Apr-05	-1	-1	-1	-1	-1	4	97	265	452	601	714	789	806	383	207	125	145	16	8	-1	-1	-1	-1	-1	-1	192	806
13-Apr-05	-1	-1	-1	-1	-1	5	36	62	204	269	490	660	732	688	479	322	209	134	60	-1	-1	-1	-1	-1	-1	181	732
14-Apr-05	-1	-1	-1	-1	-1	6	26	37	43	69	74	75	42	52	82	91	124	34	0	-1	-1	-1	-1	-1	-1	31	124
15-Apr-05	-1	-1	-1	-1	-1	7	125	289	469	623	741	817	841	790	498	346	419	241	68	0	-1	-1	-1	-1	-1	261	841
16-Apr-05	-1	-1	-1	-1	-1	5	90	189	367	609	729	748	718	803	681	572	380	218	37	-1	-1	-1	-1	-1	-1	256	803
17-Apr-05	-1	-1	-1	-1	-1	2	18	33	170	530	751	743	425	452	342	306	321	170	63	1	-1	-1	-1	-1	-1	180	751
18-Apr-05	-1	-1	-1	-1	-1	0	47	138	245	355	359	350	324	253	254	236	218	193	79	3	-1	-1	-1	-1	-1	127	359
19-Apr-05	-1	-1	-1	-1	-1	10	97	278	483	634	750	826	843	810	732	607	448	271	106	4	-1	-1	-1	-1	-1	287	843
20-Apr-05	-1	-1	-1	-1	-1	15	143	315	491	644	759	835	858	801	645	408	250	142	43	2	-1	-1	-1	-1	-1	264	858
21-Apr-05	-1	-1	-1	-1	-1	20	142	308	493	640	753	827	842	814	724	601	449	275	110	5	-1	-1	-1	-1	-1	291	842
22-Apr-05	-1	-1	-1	-1	-1	19	149	321	494	645	758	831	844	811	729	606	449	272	106	5	-1	-1	-1	-1	-1	293	844
23-Apr-05	-1	-1	-1	-1	-1	21	145	322	496	646	762	833	852	817	736	614	457	273	118	8	-1	-1	-1	-1	-1	295	852
24-Apr-05	-1	-1	-1	-1	-1	24	158	324	492	639	751	826	836	811	738	621	468	292	128	8	-1	-1	-1	-1	-1	296	836
25-Apr-05	-1	-1	-1	-1	-1	26	165	337	510	657	769	840	855	820	738	617	462	294	129	8	-1	-1	-1	-1	-1	301	855
26-Apr-05	-1	-1	-1	-1	-1	16	97	237	523	575	702	568	621	465	562	323	155	100	33	1	-1	-1	-1	-1	-1	207	702
27-Apr-05	-1	-1	-1	-1	-1	9	76	222	260	366	267	355	320	274	216	152	108	64	31	1	-1	-1	-1	-1	-1	113	366
28-Apr-05	-1	-1	-1	-1	-1	11	63	189	324	353	565	520	497	355	552	249	292	130	84	11	-1	-1	-1	-1	-1	174	565
29-Apr-05	-1	-1	-1	-1	-1	33	102	303	539	483	463	738	511	581	456	234	246	90	49	3	-1	-1	-1	-1	-1	201	738
30-Apr-05	-1	-1	-1	-1	-1	9	98	211	358	215	186	171	209	179	161	142	104	43	16	2	-1	-1	-1	-1	-1	87	358
Hourly Avg	-1	-1	-1	-1	-1	8	81	207	346	464	558	639	613	557	491	374	280	161	56	2	-1	-1	-1	-1	-1		
Hourly Max	-1	-1	-1	-1	-1	33	165	337	539	657	769	840	858	820	738	621	468	294	129	11	-1	-1	-1	-1	-1		

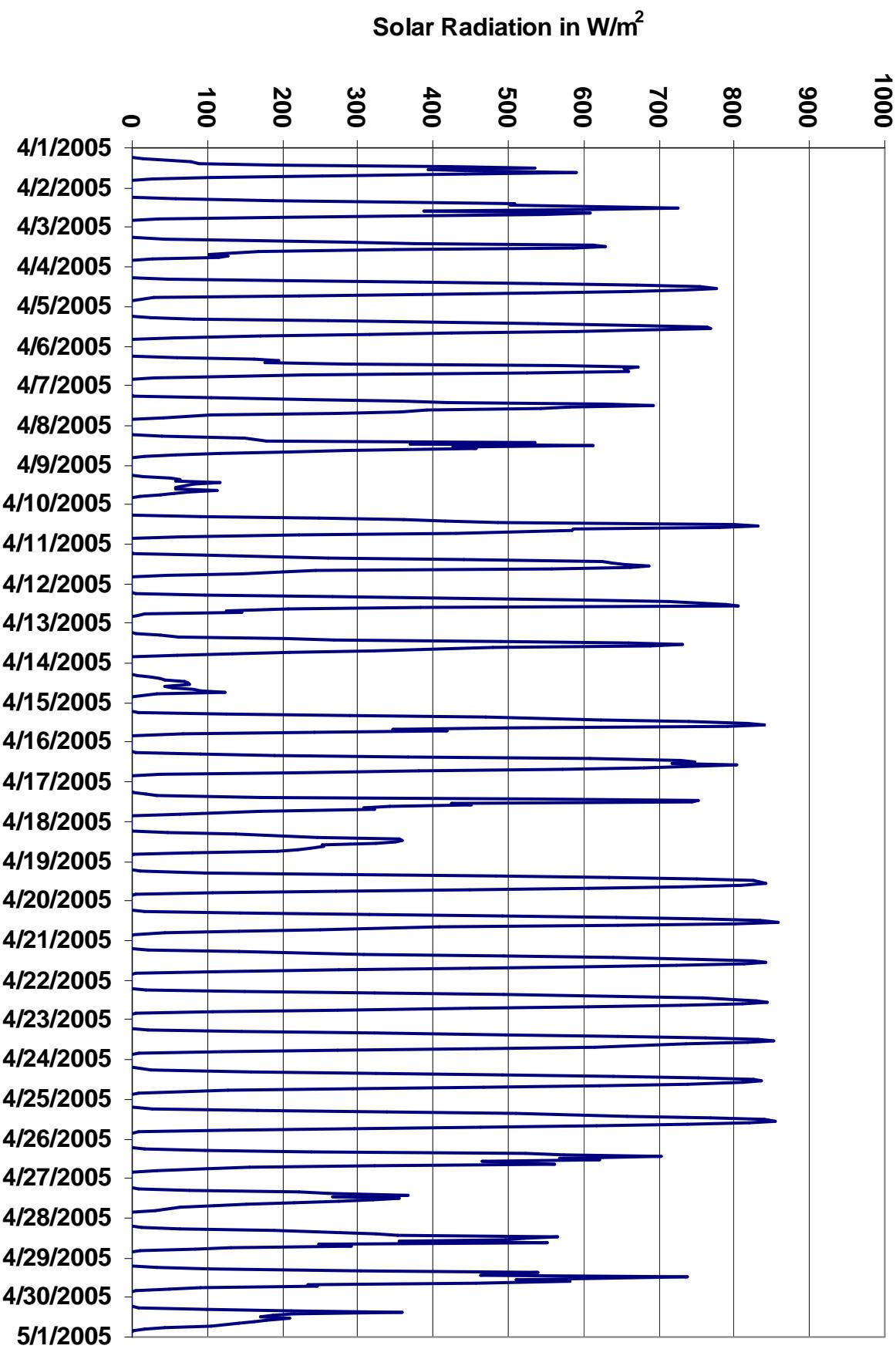


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



Station: Crescent Heights

HOURLY AVERAGE TABLE

Wind Speed (WSv - km/hr)

Station Owner: PAS

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

Maximum 1-hr Average: 40.5 km/hr 1-Apr 11:00 12:00
Maximum 24-hr Average: 24.9 km/hr 1-Apr

Calm Time:	4 hrs	1% calms	Operational Time:				716 hrs	
Calibration Time:	0 hrs				AMD Operational Uptime:			
Percentile	99	95	75	50	25	5	1	AverageS
	32.7	23.6	16.8	11.3	6.7	2.7	1.3	12.1 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr 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		
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-Apr-05	7	4	7	10	16	22	30	37	34	32	37	40	29	33	34	29	31	39	33	27	23	26	26	13	24.9	40.5
2-Apr-05	6	12	22	10	3	3	7	11	16	18	20	20	21	20	20	23	20	19	14	9	7	7	8	8	12.3	23.4
3-Apr-05	6	8	7	5	4	2	3	3	5	8	11	9	7	8	13	6	13	13	15	14	17	12	9	8	5.3	16.8
4-Apr-05	5	9	12	11	9	11	8	9	12	11	12	11	8	9	10	10	11	9	7	8	6	6	13	5	6.5	12.6
5-Apr-05	9	7	5	6	9	6	10	9	8	11	13	12	10	14	17	15	14	12	8	4	5	5	8	6	8.9	16.7
6-Apr-05	8	12	6	4	5	4	3	9	18	22	20	21	21	20	17	16	17	14	9	4	4	4	5	5	9.7	21.7
7-Apr-05	4	4	3	5	9	8	11	10	8	5	6	14	15	16	17	16	17	11	6	5	7	7	4	4	2.7	17.2
8-Apr-05	7	12	13	9	9	6	6	7	14	19	15	19	19	17	16	15	14	10	5	7	17	8	6	4	9.9	18.8
9-Apr-05	10	8	8	8	11	14	15	20	23	18	19	22	23	30	29	21	12	19	15	11	11	13	18	12	15.4	29.5
10-Apr-05	11	14	14	16	16	15	14	16	18	22	24	22	24	21	18	16	16	13	9	5	4	6	4	4	12.6	24.3
11-Apr-05	4	4	3	3	2	4	3	2	12	22	20	15	15	17	13	18	12	10	7	4	5	8	8	5	7.0	22.3
12-Apr-05	8	6	6	7	5	4	2	3	3	6	4	5	8	8	6	8	10	14	14	14	13	17	17	24	4.3	18.8
13-Apr-05	4	7	6	3	5	2	3	3	6	4	5	8	8	6	8	10	14	14	14	13	17	17	28	24	6.6	28.1
14-Apr-05	19	21	20	14	20	21	23	29	26	22	19	22	27	27	25	26	23	17	11	12	13	17	14	13	18.1	29.3
15-Apr-05	20	18	14	18	18	17	16	16	18	18	18	17	21	20	22	23	20	20	20	16	17	17	16	12	17.2	22.8
16-Apr-05	11	8	12	11	6	4	3	8	17	20	24	21	25	30	26	27	23	22	14	9	6	3	5	7	13.6	29.7
17-Apr-05	9	8	9	15	15	10	8	6	6	7	8	9	9	12	12	10	10	13	12	11	12	10	7	6	3.9	15.1
18-Apr-05	7	8	10	15	4	4	4	8	20	21	18	17	18	16	14	17	17	14	12	9	10	11	11	8	10.7	21.5
19-Apr-05	6	2	1	4	7	8	2	1	2	3	6	8	7	6	7	7	9	9	8	8	6	7	6	3	4.4	9.0
20-Apr-05	2	3	3	1	1	1	3	3	2	3	5	5	7	6	4	5	5	4	4	8	16	18	11	10	1.5	18.0
21-Apr-05	13	10	8	8	9	10	13	15	14	12	8	8	10	12	15	16	17	17	14	11	5	5	6	1.3	17.3	
22-Apr-05	7	2	2	3	2	3	1	2	3	4	8	12	15	15	14	16	15	14	12	12	13	13	14	15	7.5	15.5
23-Apr-05	13	17	12	8	6	7	7	5	8	7	7	5	6	7	6	9	10	13	11	9	6	2	2	4.7	17.0	
24-Apr-05	4	1	2	1	6	Calm	1	3	6	15	19	19	20	17	18	18	18	15	10	8	6	1	Calm	10.1	19.9	
25-Apr-05	Calm	Calm	3	2	2	1	2	4	3	4	9	12	14	15	13	13	14	16	12	6	7	5	7	13	5.4	15.7
26-Apr-05	13	15	12	14	17	15	16	20	20	21	19	18	22	24	23	22	18	22	23	20	25	12	17	18	16.5	24.7
27-Apr-05	11	12	12	8	8	15	20	19	19	22	22	21	19	20	19	18	14	15	14	10	8	9	4	4	14.1	22.4
28-Apr-05	4	6	7	7	8	12	13	12	14	14	18	21	19	17	17	18	18	18	16	12	11	8	9	10	12.5	21.5
29-Apr-05	10	10	8	8	9	11	11	13	15	18	19	20	19	24	23	20	25	23	20	16	14	18	13	10	15.2	24.9
30-Apr-05	13	12	14	12	13	15	14	16	21	17	18	14	13	12	11	12	10	10	11	10	8	6	5	12.1	20.9	
1-hr Vector	3.7	4.8	4.5	4.6	4.3	4.4	4.4	4.8	5.3	5.9	5.3	5.3	5.1	6.4	6.4	6.0	5.5	5.6	4.2	3.6	2.5	2.7	3.4	2.7		
Hourly Max	19.9	20.9	21.6	17.7	20.4	21.8	30.2	36.6	33.9	31.9	37.5	40.5	28.9	32.9	34.3	28.6	30.6	39.2	33.1	26.5	24.7	25.8	28.1	23.7	N	0.0



Station: Crescent Heights

Station Owner: PAS

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

HOURLY AVERAGE TABLE

Wind Direction (WD - Degrees)

Hourly Average Data													

Calm Time:	4 hrs	1% calms	Operational Time:	716 hrs									
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%										
Percentile	99 357.3	95 348.3	75 312.2	50 234.4	25 126.7	5 12.6	1 2.1	Average	294 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

	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
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	225	
1-Apr-05	237	261	195	204	209	206	208	212	213	216	217	230	242	241	245	256	244	234	227	221	216	213	209	228	225	
2-Apr-05	261	252	304	333	255	98	212	236	215	234	247	250	246	256	252	241	248	242	242	266	263	252	244	257	250	
3-Apr-05	242	227	225	219	230	77	191	97	74	57	64	63	50	204	170	114	107	99	89	104	119	124	108	96	116	
4-Apr-05	127	212	233	234	231	236	239	229	219	204	222	227	253	297	299	304	298	312	306	315	299	289	320	102	257	
5-Apr-05	240	243	233	247	283	279	274	274	274	267	271	273	272	251	249	247	249	260	255	248	213	234	233	245	257	
6-Apr-05	229	223	238	240	194	202	165	214	210	214	212	216	225	240	260	259	249	263	277	250	143	151	150	132	227	
7-Apr-05	58	357	354	346	353	343	342	351	360	18	178	177	167	190	176	178	186	193	143	170	269	286	198	197	197	
8-Apr-05	243	243	237	224	216	214	200	215	242	239	253	250	250	256	252	250	243	249	245	330	337	305	286	304	252	
9-Apr-05	324	328	308	311	311	322	324	331	330	325	344	355	13	2	0	12	14	345	343	333	326	322	341	319	342	
10-Apr-05	296	292	297	305	307	310	307	311	319	326	329	325	329	317	324	319	320	326	346	66	119	122	127	319	319	
11-Apr-05	123	136	135	122	26	10	7	182	205	197	192	177	164	185	187	204	201	241	262	259	232	239	260	220	199	
12-Apr-05	205	206	184	207	200	220	26	76	126	134	103	104	101	117	167	172	143	147	181	272	283	271	271	48	167	
13-Apr-05	117	116	121	284	319	138	135	177	278	308	358	360	47	20	42	63	18	345	356	337	337	322	337	340	354	
14-Apr-05	338	330	339	321	331	329	322	329	323	313	306	304	293	286	287	290	293	288	259	261	257	258	269	250	303	
15-Apr-05	230	232	229	265	269	267	261	238	256	258	250	247	237	248	249	245	248	240	231	212	206	214	218	219	241	
16-Apr-05	230	249	233	234	248	239	247	197	192	197	203	195	195	207	200	208	223	208	203	214	207	260	266	254	211	
17-Apr-05	229	242	222	223	232	244	230	327	223	316	20	263	249	241	226	226	2	18	23	21	31	25	357	305	280	
18-Apr-05	285	331	344	4	192	240	235	4	15	5	15	24	19	36	28	25	19	15	3	355	0	359	13	18	9	
19-Apr-05	48	343	10	356	343	344	12	9	190	90	66	96	60	74	73	46	70	78	69	68	107	111	111	135	66	
20-Apr-05	134	107	109	310	131	153	123	161	5	357	82	109	41	96	102	30	39	13	337	208	203	209	237	237	175	
21-Apr-05	235	237	245	236	222	235	233	228	224	241	306	356	24	31	47	63	53	56	56	56	57	78	116	89	36	
22-Apr-05	112	115	114	68	14	43	72	80	65	171	185	184	194	205	191	184	172	165	163	143	138	121	154	156	162	
23-Apr-05	157	165	162	153	95	83	66	58	61	43	13	25	37	135	39	30	8	10	41	49	65	76	95	18	72	
24-Apr-05	36	138	158	77	357	Calm	159	355	6	31	60	42	25	26	12	5	10	14	19	25	19	26	50	Calm	24	
25-Apr-05	Calm	231	217	156	193	203	217	266	270	344	350	345	350	341	336	346	354	354	7	64	180	235	254	333		
26-Apr-05	249	268	289	324	35	23	10	12	8	2	357	351	0	356	344	344	344	343	356	0	11	7	1	10	354	
27-Apr-05	359	353	354	344	337	343	345	349	351	348	346	347	347	343	345	343	342	342	342	320	333	346	336	308	344	
28-Apr-05	318	319	322	344	340	8	360	360	344	330	326	330	333	325	310	333	329	328	330	330	338	329	328	315	333	
29-Apr-05	322	314	309	296	292	292	302	313	315	314	312	313	315	330	324	326	348	343	339	340	339	340	334	312	324	
30-Apr-05	319	319	318	318	319	334	336	345	349	351	347	346	348	346	343	346	349	348	3	2	2	348	331	317	341	
	Hourly Avg	262	264	273	282	289	301	296	299	290	290	297	294	304	290	288	293	306	309	323	321	328	286	289	285	N



Station: Crescent Heights

Station Owner: PAS

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

STANDARD DEVIATION TABLE

Wind Direction (WD - Degrees)

|--|--|--|--|--|--|--|

Determined by the Yamartino 15-min interval calculation

Calm Time:	4 hrs	1% calms	Operational Time:	716 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	52.3	39.7	17.2	9.6	6.8	4.8	3.8

Status Flag Characters

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

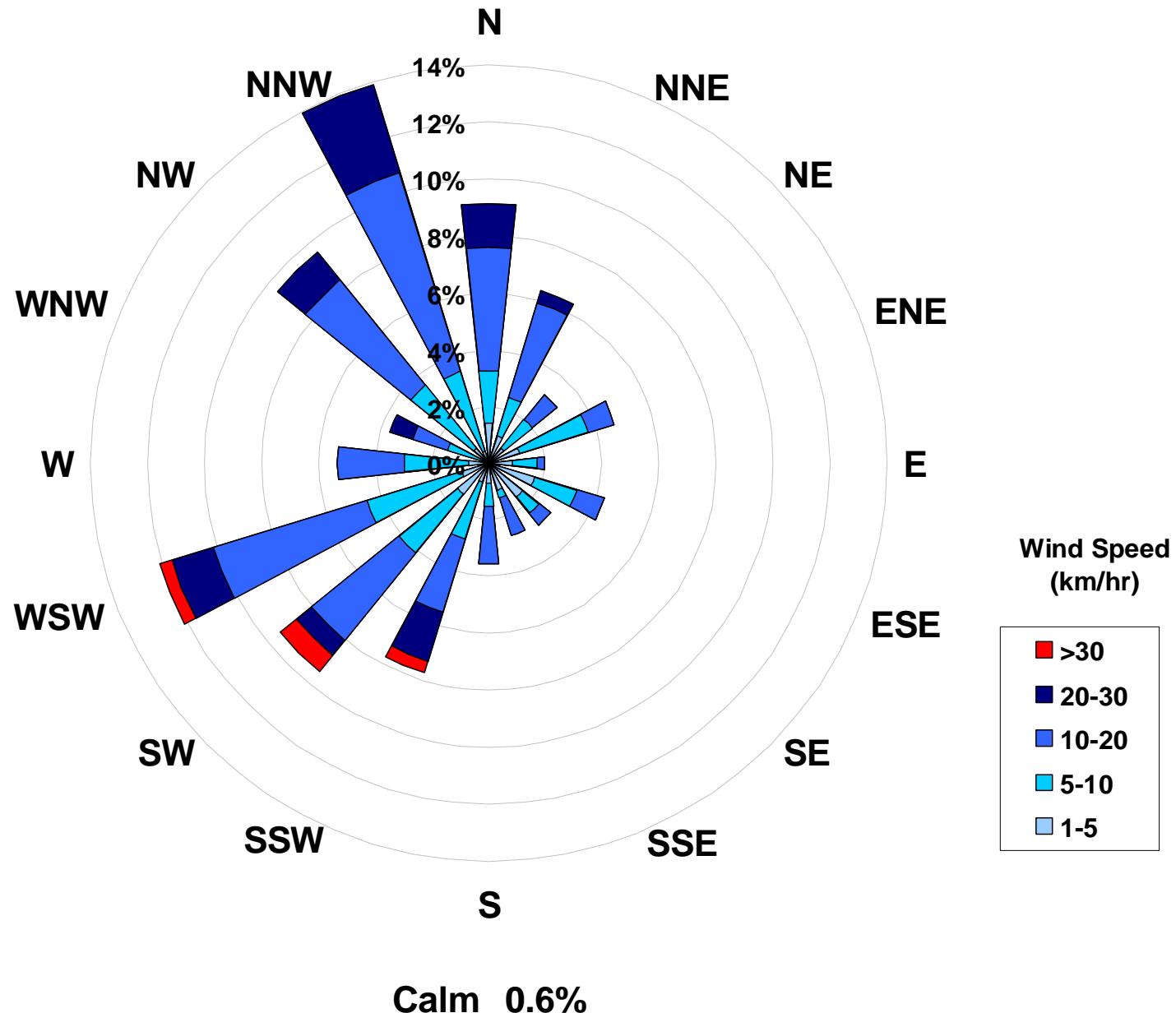
Day Mountain Standard Time

	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Apr-05	17 1:00	25 12	12 9	9 7	7 5	5 4	4 4	4 5	5 5	5 6	6 7	7 7	7 7	6 7	7 7	7 7	6 6	4 4	4 5	5 5	5 4	37 37			
2-Apr-05	19 1:00	9 10	10 12	12 38	38 47	47 13	13 6	8 9	9 10	10 13	10 10	11 11	12 12	10 10	9 9	9 9	6 6	6 6	18 18	19 19	10 10	6 6			
3-Apr-05	7 1:00	8 5	5 10	10 20	20 41	41 37	37 39	16 10	10 13	13 23	43 43	36 36	18 18	19 19	6 6	6 6	8 8	7 7	11 11	10 10	9 9	9 9			
4-Apr-05	13 1:00	10 6	6 4	4 4	4 7	9 9	6 6	8 14	14 15	15 30	30 43	28 28	32 32	19 19	17 17	15 15	9 9	4 4	11 11	8 8	5 5	39 39			
5-Apr-05	11 1:00	7 22	22 13	13 12	12 13	13 7	7 10	14 13	13 13	17 17	24 24	18 18	14 14	14 14	11 11	8 8	9 9	9 9	19 19	12 12	10 10	15 15			
6-Apr-05	9 1:00	7 48	48 52	35 38	38 48	48 18	18 6	6 6	7 7	7 13	15 15	12 12	10 10	7 7	7 7	9 9	27 27	36 36	36 36	26 26	10 10				
7-Apr-05	33 1:00	21 37	37 20	7 7	10 9	9 6	6 6	10 14	14 33	12 12	11 11	12 12	8 8	10 10	9 9	7 7	8 8	19 19	46 46	23 23	34 34	23 23			
8-Apr-05	7 1:00	6 6	6 5	7 7	14 12	12 11	11 10	9 9	8 8	9 9	9 10	10 10	9 9	7 7	9 9	11 11	17 17	5 5	8 8	11 11	22 22				
9-Apr-05	8 1:00	7 8	8 9	8 8	5 5	5 6	6 6	5 5	5 6	6 6	6 10	6 6	4 4	6 6	9 9	4 4	4 4	5 5	7 7	6 6	5 5	8 8			
10-Apr-05	9 1:00	6 6	7 6	6 6	6 7	6 6	8 8	7 7	8 8	9 9	11 11	10 10	12 12	14 14	13 13	12 12	9 9	10 10	15 15	7 7	10 10	19 19			
11-Apr-05	18 1:00	10 10	10 22	22 19	8 8	9 9	55 55	18 18	9 9	9 13	14 14	14 14	17 17	11 11	11 11	15 15	9 9	8 8	13 13	6 6	20 20				
12-Apr-05	11 1:00	26 15	15 27	20 20	24 24	46 46	20 20	13 13	54 54	28 28	14 14	12 12	19 19	19 19	15 15	16 16	26 26	18 18	7 7	6 6	10 10	39 39			
13-Apr-05	17 1:00	5 20	20 29	21 21	34 34	32 48	48 48	47 47	47 44	44 21	21 21	50 50	24 24	18 18	9 9	8 8	6 6	6 6	5 5	8 8	6 6				
14-Apr-05	5 1:00	5 6	8 5	5 5	6 5	5 4	4 5	5 5	5 7	6 6	6 6	5 5	6 6	6 7	8 8	9 9	9 9	7 7	6 6	6 6	8 8				
15-Apr-05	5 1:00	5 9	5 5	5 5	5 5	7 7	6 6	7 7	9 9	11 11	13 13	13 10	9 9	9 9	6 6	5 5	6 6	6 6	9 9	16 16					
16-Apr-05	14 1:00	22 12	12 6	8 8	8 8	17 17	7 7	8 8	12 11	11 9	11 11	10 10	12 12	9 9	9 9	7 7	7 7	14 14	23 23	43 43	26 26				
17-Apr-05	8 1:00	9 12	12 6	4 4	7 7	22 22	29 29	11 11	18 18	42 31	35 35	13 13	16 16	28 28	26 26	7 7	5 5	4 4	4 4	18 18	14 14	24 24			
18-Apr-05	11 1:00	11 5	5 5	55 55	16 16	16 25	25 25	6 7	9 11	10 10	12 12	17 17	11 11	11 11	10 10	6 6	3 3	3 3	4 4	5 5					
19-Apr-05	14 1:00	47 29	29 32	3 3	3 27	37 37	52 52	57 57	28 28	44 44	40 40	48 48	49 49	39 39	20 20	17 17	13 13	6 6	11 11	7 7	5 5	5 5			
20-Apr-05	28 1:00	12 26	26 44	29 15	9 9	18 38	40 49	48 48	43 43	52 52	66 66	32 32	32 32	36 36	9 9	37 37	6 6	6 6	10 10	9 9					
21-Apr-05	5 1:00	6 9	9 8	6 6	9 9	4 4	5 5	8 8	14 14	28 28	25 25	22 22	18 18	18 18	16 16	15 15	9 9	6 6	4 4	5 5	33 33	16 17			
22-Apr-05	10 1:00	38 26	26 10	18 18	10 10	24 24	34 34	36 41	39 39	19 19	20 20	19 19	21 21	14 14	12 12	11 11	9 9	6 6	6 6	5 5	6 6	8 8			
23-Apr-05	8 1:00	7 8	8 16	22 22	7 7	12 17	17 15	19 19	29 29	34 34	38 38	52 52	68 68	34 34	22 22	10 10	14 14	4 4	19 19	9 9	21 21	31 31			
24-Apr-05	16 1:00	34 62	62 29	20 20	Calm Calm	31 7	37 32	17 37	9 15	11 29	13 28	17 21	10 16	10 10	8 8	6 6	4 4	7 7	5 5	25 25	Calm Calm				
25-Apr-05	Calm Calm	7 32	32 37	15 14	29 27	14 14	27 35	35 28	28 21	24 24	16 16	19 19	17 17	11 11	10 10	7 7	8 8	12 12	17 17	8 8	6 6				
26-Apr-05	9 1:00	12 10	10 9	16 16	13 13	6 6	6 8	9 9	12 12	10 10	8 8	9 9	10 10	9 9	16 16	8 8	5 5	5 5	6 6	6 6	4 4				
27-Apr-05	5 1:00	7 6	6 5	5 5	5 6	6 6	8 8	8 7	8 9	9 9	8 8	8 9	8 9	8 8	8 8	9 9	9 9	6 6	6 6	6 6	5 5				
28-Apr-05	6 1:00	6 7	7 11	8 8	5 6	9 9	8 8	13 13	14 14	9 9	11 11	11 11	15 15	13 13	13 13	8 8	9 9	8 8	6 6	7 7	8 8				
29-Apr-05	8 1:00	8 10	10 12	11 11	8 8	10 10	8 8	12 12	13 13	12 12	13 13	10 10	9 9	9 9	7 7	6 6	5 5	4 4	7 7	9 9					
30-Apr-05	8 1:00	8 8	7 8	8 6	6 8	5 5	6 6	6 6	8 8	9 9	9 9	9 9	10 10	10 10	6 6	6 6	8 8	10 10	13 13						

	Daily Maximum
Hourly Max	33 47 62 52 55 47 48 55 52 57 49 48 43 52 68 39 32 36 18 37 46 43 34 39
	36.9
	46.6
	42.7
	42.7
	24.2
	52.1
	45.6
	22.3
	9.9
	19.3
	55.5
	53.7
	50.1
	8.9
	16.4
	43.4
	41.6
	54.9
	57.0
	66.4
	33.0
	41.1
	67.9
	61.8
	37.4
	16.0
	9.3
	15.1
	12.7
	12.5
	0.0



Wind Rose for the 1-hr Average Meteorological Data at the Crescent Heights Site for April 2005





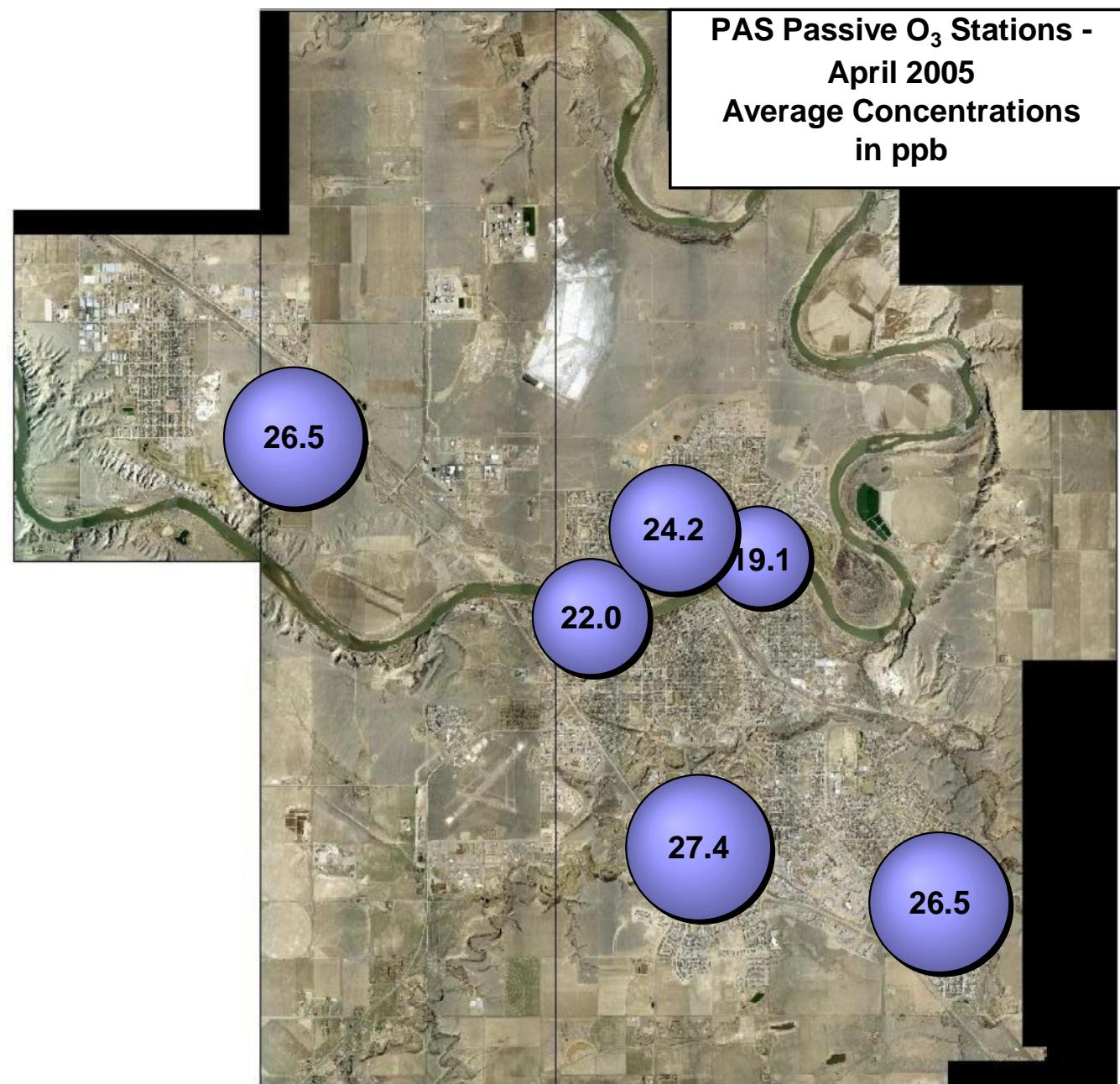
Passive Monitoring – April 2005

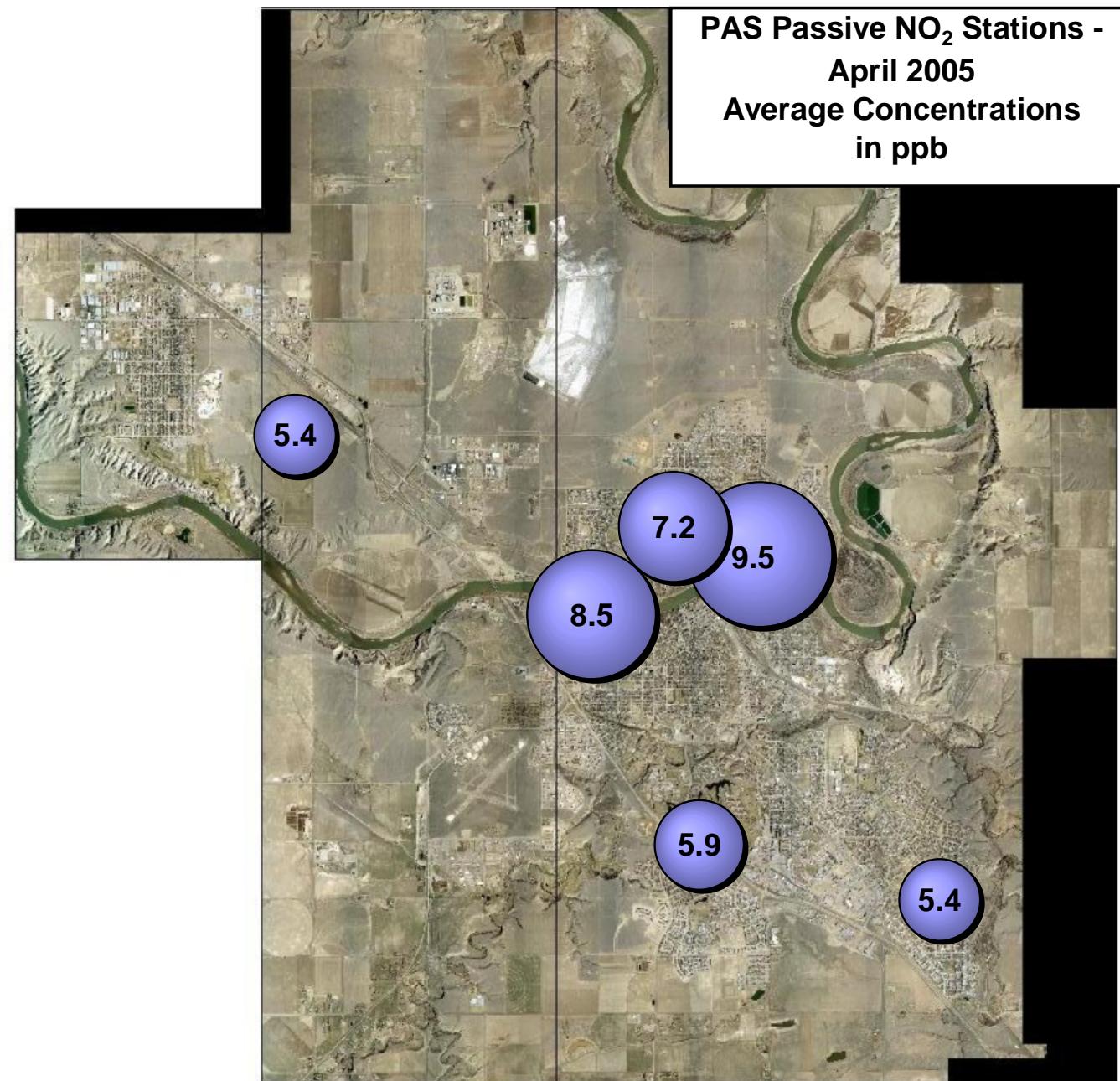
Ambient Air Compliance Network

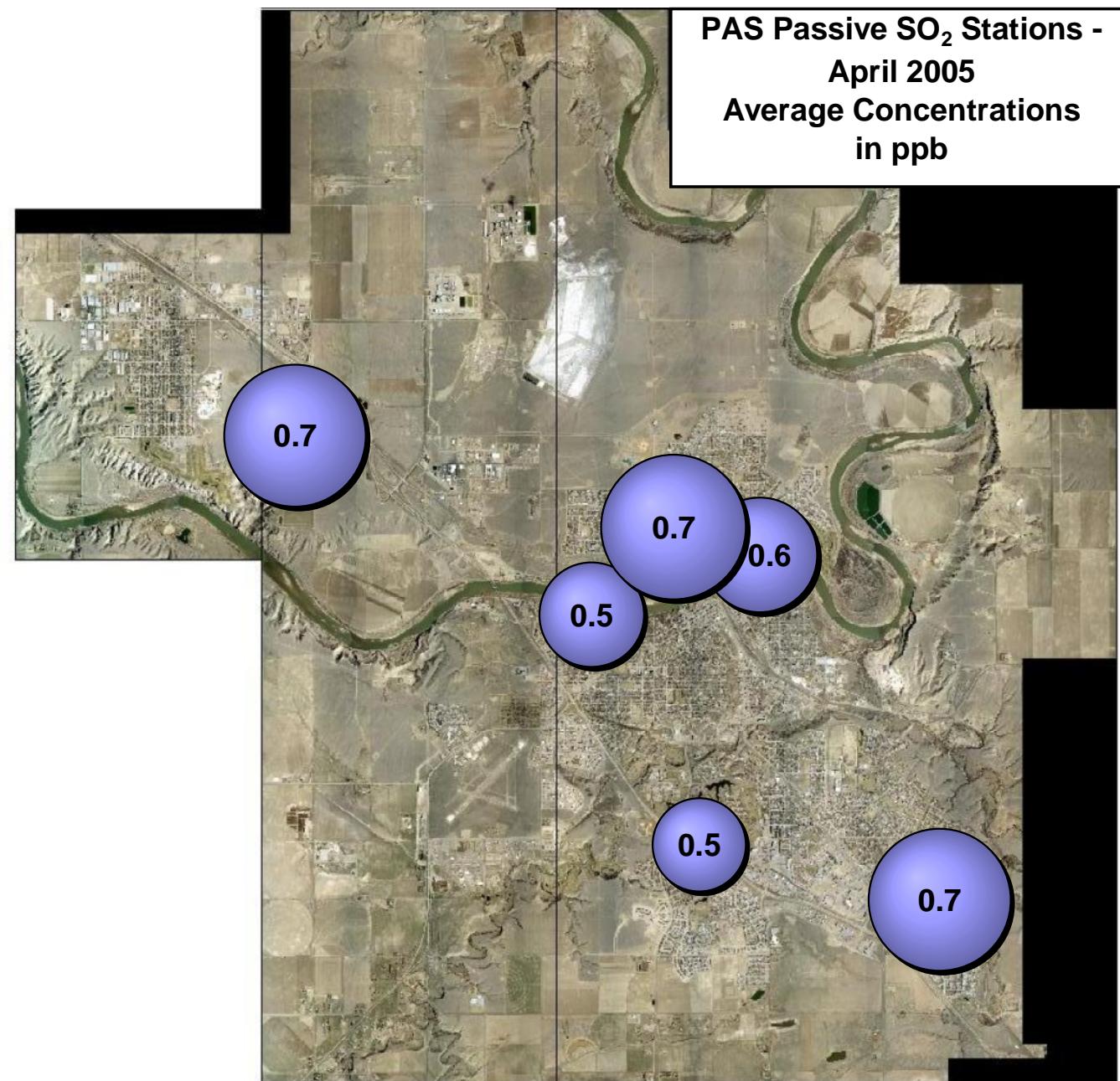


Palliser Airshed Society - PAS Passive Stations for April 2005

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Location		
					Easting	Northing	Elevation
Duplicates							
4a	Redcliff	0.6	27.9	4.0			
4b		0.8	25.1	6.7			
1	Hospital	0.5	22.0	8.5	521648	5542721	698
2	Ball Park	0.6	19.1	9.5	524019	5543686	660
3	Monitoring Station	0.7	24.2	7.2	522812	5544133	714
4	Redcliff	0.7	26.5	5.4	517448	5545608	725
5	Southridge	0.5	27.4	5.9	523172	5539016	721
6	Christian School Park	0.7	26.5	5.4	526577	5538133	709







April 2005 - Calibration Reports

PAS - Crescent Heights Station O₃, NO_x, NO, NO₂, THC, COand PM_{2.5}

Calibration Report

Parameter O3
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	17:30	End Time (MST)	19:50
Barometric Pressure	0.929 ATM	Station Temperature	22.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	NA
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.037485	Calculated slope	0.978367
Calculated intercept	2.149496	Calculated intercept	-2.915832
Analyzer make	API Model 400E	Analyzer serial #	331
	before		after
Concentration range	0 - 500	ppb	0 - 500
Background coefficient	-2.4	ppb	-2.4
Lamp measure	1.149		1.149
Lamp Reference	2937	mV	2889
Pressure	2941	mV	2890
Sample Flow	25.6	inches Hg	25.9
Lamp temp	718	ccm	725
	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	3.2	N/A
4995	0.00	311.4	321.0	0.9700
4995	0.00	177.0	184.7	0.9582
4995	0.00	89.0	93.1	0.9556
4995	0.00	0.0	3.2	0.0000
4995	0.00	311.4	321.0	0.9700
		Average Correction Factor		0.9613

Calculated value of As Found Response: 331.9 ppm Percent Change of As Found: 6.6%

	before calibration		after calibration	
Auto zero	0.5	ppb	-4.8	ppb
Auto span	364.2	ppb	340.0	ppb

Notes: No adjustments performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

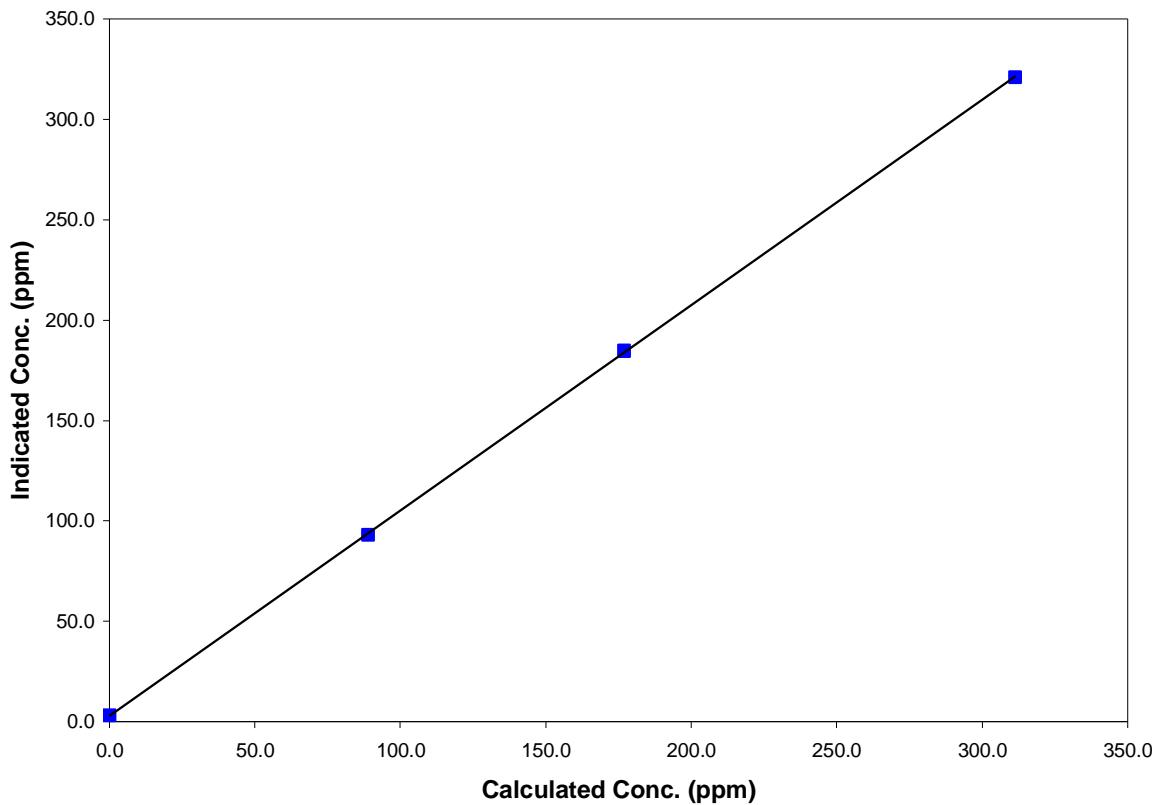
Parameter O₃
 Air Monitoring Network Palliser Airshed

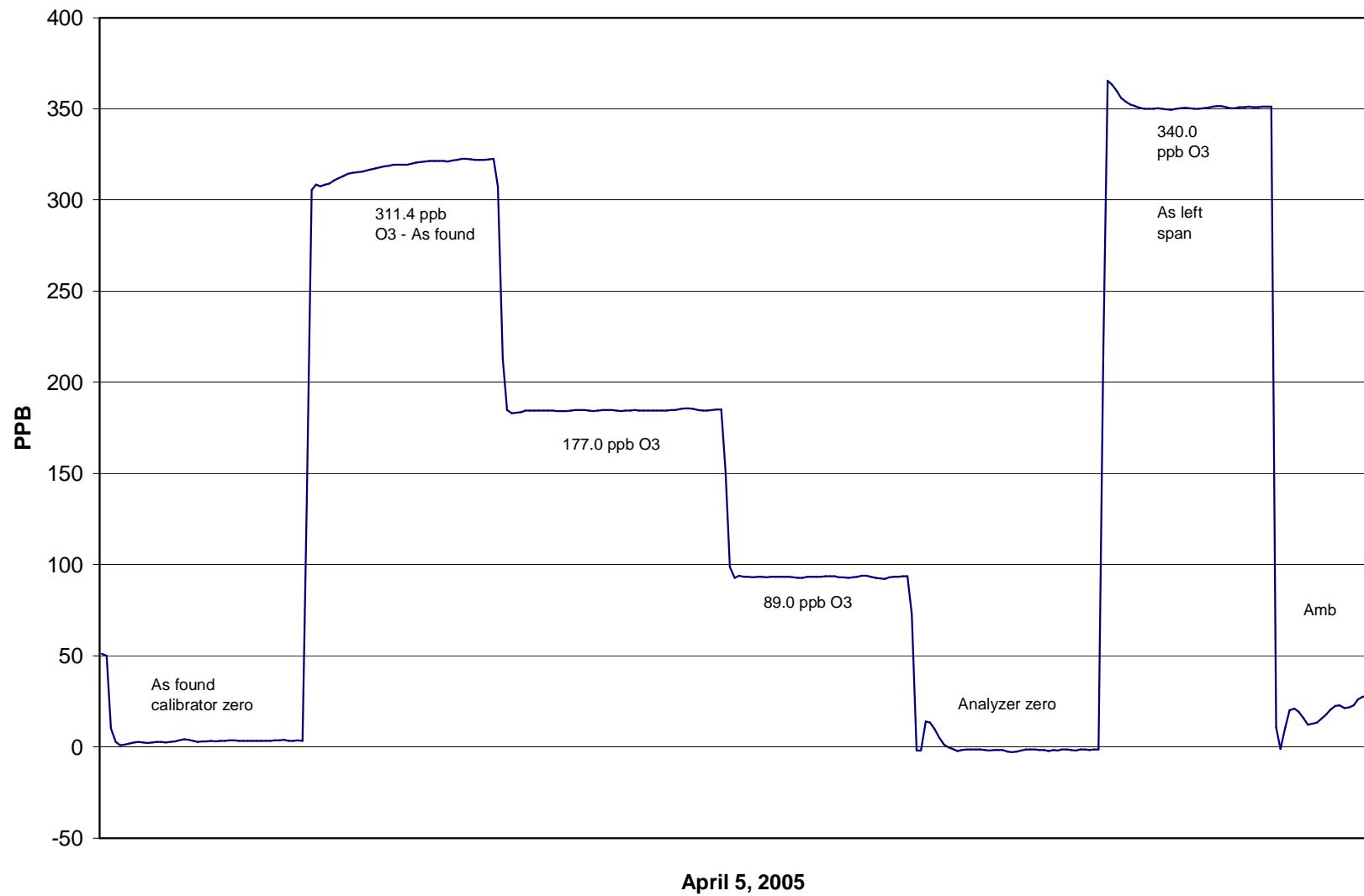
**Station Information**

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	17:30	End Time (MST)	19:50
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
			Correlation Coefficient	Slope
311.4	321.0	0.9700		
177.0	184.7	0.9582		
89.0	93.1	0.9556		
0.0	3.2	N/A		
			Intercept	-2.915832
				0.978367

O₃ Calibration Curve

O3 Calibration

Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Installation	Removal
Start Time (MST)	11:20	End Time (MST)	16:10
Barometric Pressure	0.929	Station Temperature	20.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
NO Cal Gas Conc	50.5 ppm	Cal Gas Expiry Date	12-Dec-05
NOx Cal Gas Conc	50.5 ppm	Cal Gas Serial #	ALM011558

DACS Information

DACS make	FOCUS AP1000		DACS serial No.	45270
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	1.013112	1.010299	1.010444
	Data Offset	-2.440406	-1.765449	-0.708667
After	Data Slope	1.000728	1.002682	1.004669
	Data Offset	-1.022826	-1.268487	-2.065648
Channel #	8	6	7	
Voltage Range	0 - 1 VDC	0 - 1 VDC	0 - 1 VDC	

Analyzer Information

Analyzer make/model API Model 200E Analyzer serial # 219

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	-1.1	mV	0.7	mV
NOx background	0.9	mV	4.1	mV
NO coefficient	1.706		1.770	
NOx coefficient	1.702		1.791	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.1	Deg C
Azero	34.1		32.1	
Perm Temp	40.2	Deg C	40.1	Deg C
Pressure	3.6	inches Hg	3.6	inches Hg
Sample Flow	455.0	ccm	453.0	ccm

Notes: Analyzer was zero and span adjusted.

Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date: April 5, 2005 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	
zero	4993	0.00	0.0	0.0	0.0	1.0	1.5	1.2	N/A	N/A	
	4993	39.97	401.1	401.1	0.0	401.1	400.8	2.4	0.9998	1.0005	
	4993	19.97	201.2	201.2	0.0	202.0	202.9	0.8	0.9959	0.9914	
	4993	9.97	100.6	100.6	0.0	101.9	102.6	0.9	0.9873	0.9809	
AFZ	4993	0.00	0.0	0.0	0.0	4.5	2.7	3.3	0.0000	0.0000	
	4993	39.97	401.1	401.1	0.0	382.4	385.0	-0.5	1.0488	1.0418	
								Average Correction Factor	0.9944	0.9910	

As Found Concentrations NO_x= 376.1 NO= 381.5 As Found Percent Change NO_x= -6.2% NO= -4.9%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	404.3	400.5	3.8	401.4	400.7	1.2	N/A	N/A	N/A	N/A
350	404.3	92.9	311.4	405.4	94.6	312.2	0.9974	0.9828	0.9974	100.3%
200	404.3	227.3	177.0	404.5	228.3	178.0	0.9995	0.9956	0.9942	100.6%
100	404.3	315.3	89.0	403.6	315.9	89.7	1.0017	0.9981	0.9924	100.8%
						Average Correction Factor	0.9995	0.9922	0.9947	100.5%

AIC Data

Parameter	Previous calibration				Current calibration				
	NOx	NO ₂	NO	ppb	NOx	NO ₂	NO	ppb	
Auto zero	0.5	-1.4	1.1	ppb	-1.1	-0.8	-0.8	ppb	
Auto span	458.0	449.6	9.1	ppb	456.7	447.5	8.1	ppb	

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **Palliser Airshed**



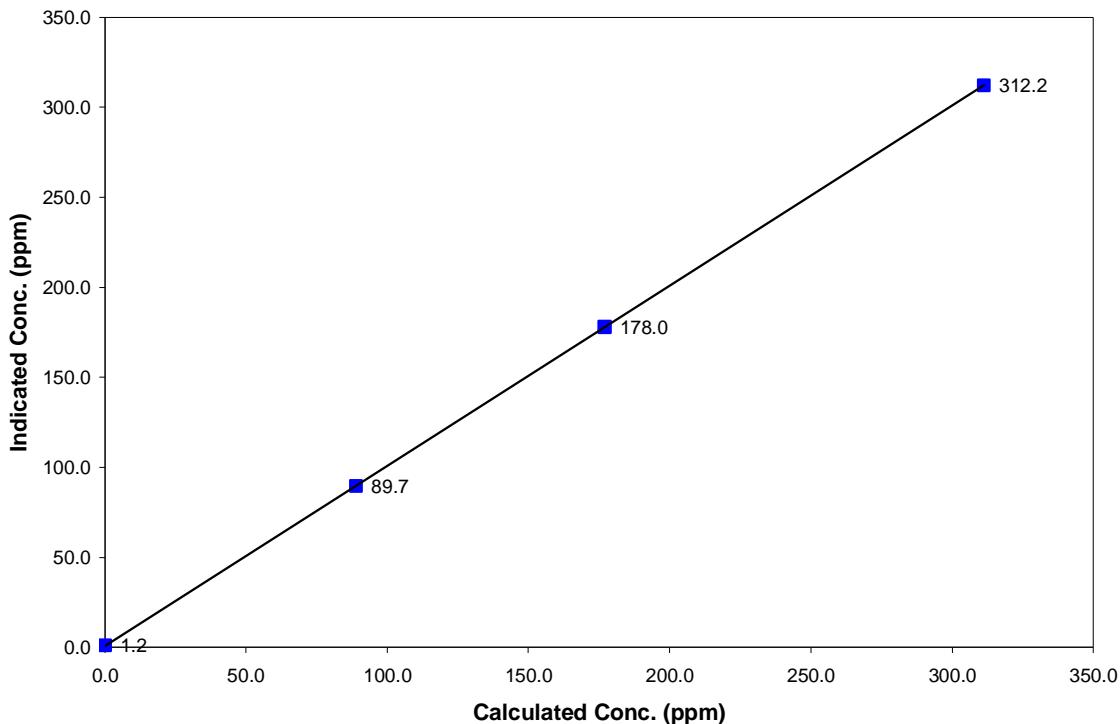
Station Information

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	11:20	End Time (MST)	16:10
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.2	0.0000	Correlation Coefficient	0.999998
89.0	89.7	0.9924		
177.0	178.0	0.9942		
311.4	312.2	0.9974		
			Slope	1.000728
			Intercept	-1.022826

NO₂ Calibration Curve

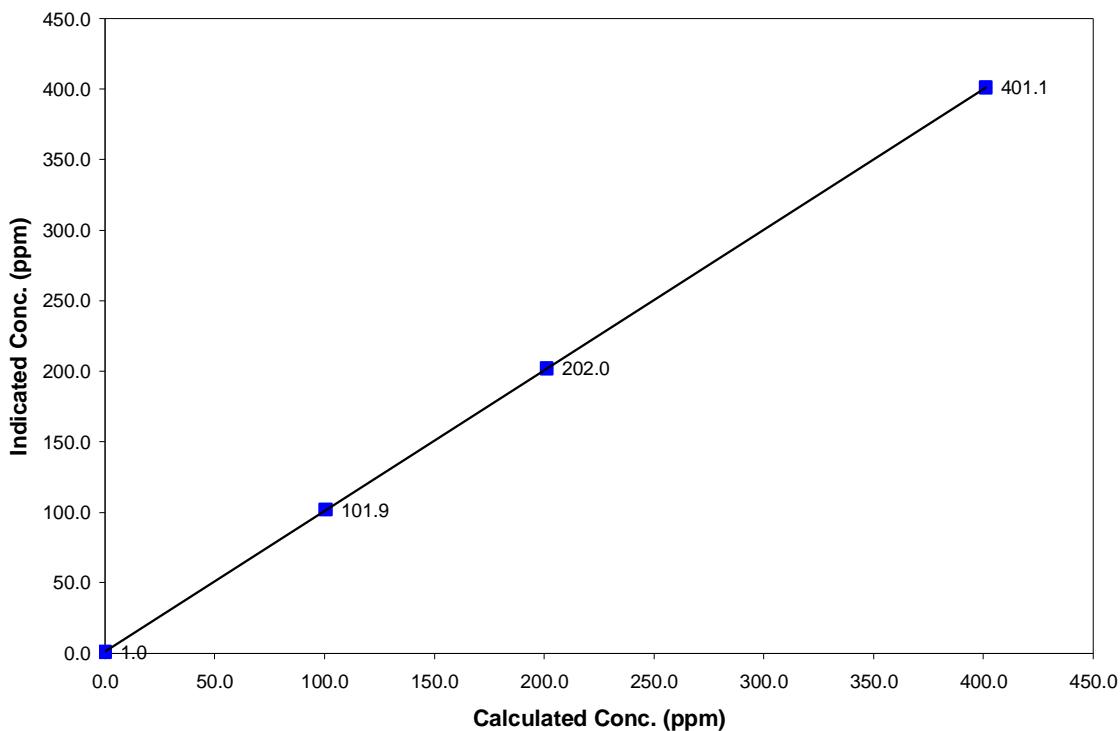


Calibration SummaryParameter **NO_x**Air Monitoring Network **Palliser Airshed****Station Information**

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	11:20	End Time (MST)	16:10
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	0.0000		
401.1	401.1	0.9998	Correlation Coefficient	0.999998
201.2	202.0	0.9959	Slope	1.002682
100.6	101.9	0.9873	Intercept	-1.268487

NOx Calibration Curve

Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed



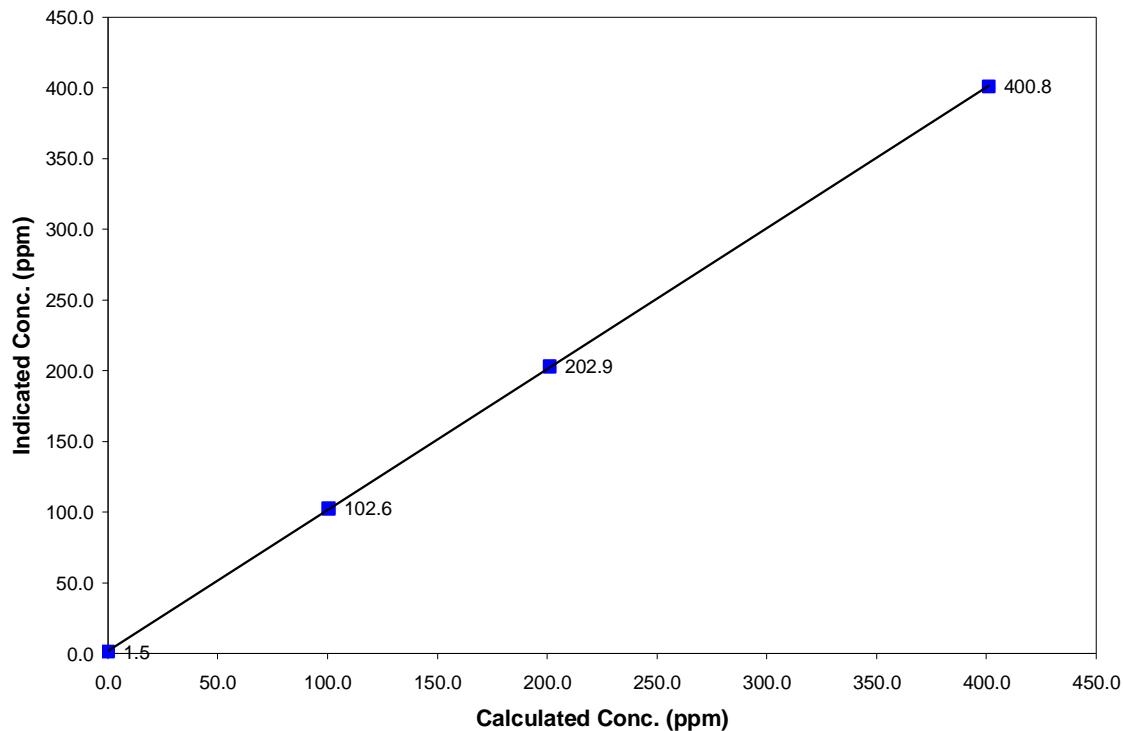
Station Information

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	11:20	End Time (MST)	16:10
Analyzer make	API Model 200E	Analyzer serial #	219

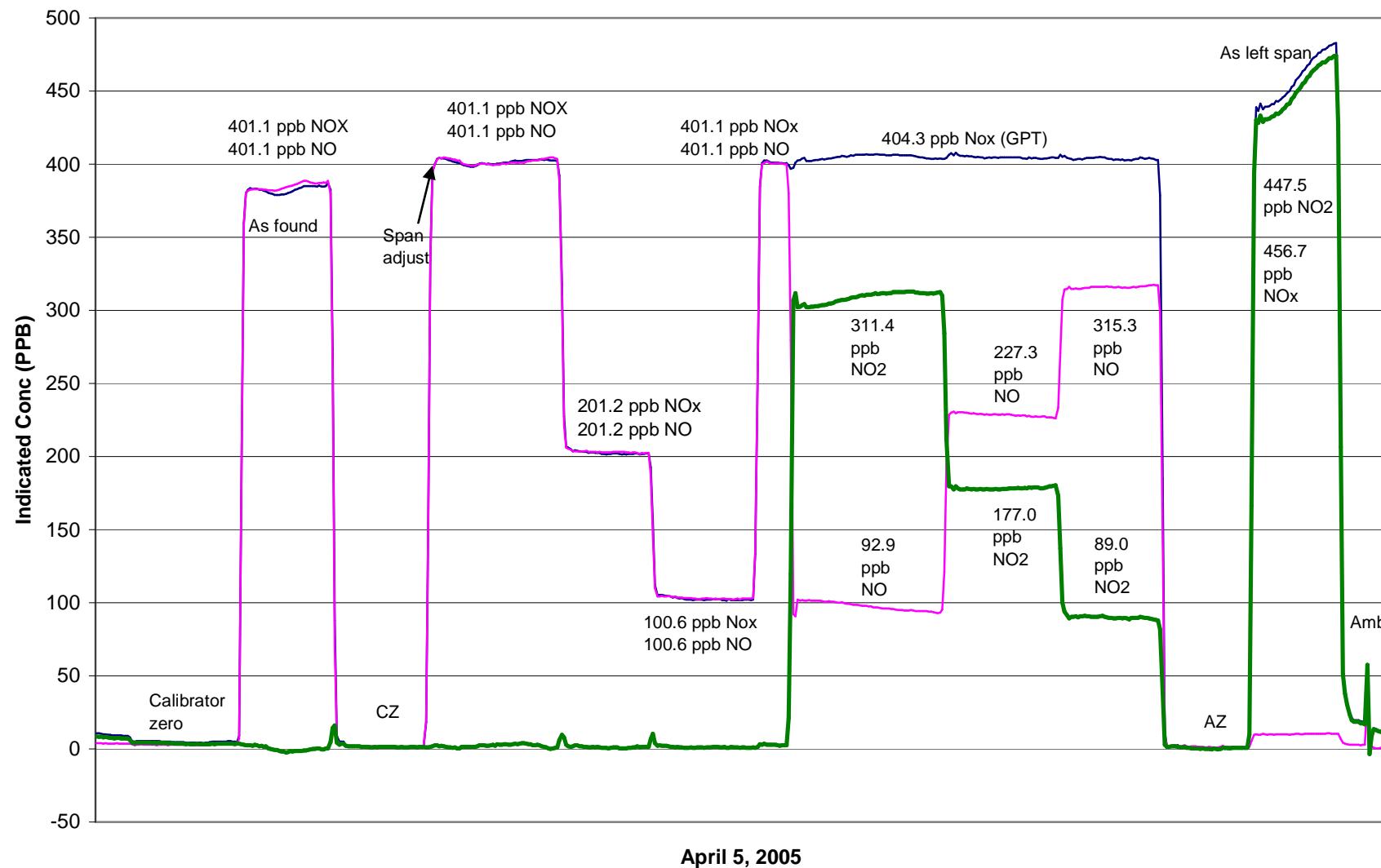
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.5	N/A		
401.1	400.8	1.0005	Correlation Coefficient	0.999988
201.2	202.9	0.9914		
100.6	102.6	0.9809	Slope	1.004669
			Intercept	-2.065648

NO Calibration Curve



NOx Calibration



Calibration Report

Parameter

THC

Air Monitoring Network

Palliser Airshed

Station Information

Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	15:18	End Time (MST)	18:20
Barometric Pressure	0.919	ATM	22.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.988595	Calculated slope	1.000536
Calculated intercept	0.078515	Calculated intercept	0.009655
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596
before		after	
Concentration range	0 - 50	ppm	0 - 50
THC sample pressure	5.74	PSI	5.74
THC span counts	10690	raw	10920
THC zero counts	1711	raw	1711

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)
2994	0.00	0.00	-0.02	N/A
2994	39.98	20.13	20.12	1.0008
2994	19.98	10.13	10.09	1.0036
2994	9.97	5.07	5.08	0.9978
zero	0.00	0.00	-0.02	As Found Zero
2994	39.98	20.13	20.55	As Found Span
Average Correction Factor				1.0007

Calculated value of As Found Response: 20.414 ppm Percent Change of As Found: -1.4%

	before calibration		after calibration	
	0.00	ppm	-0.01	ppm
Auto zero	0.00	ppm	-0.01	ppm
Auto span	21.61	ppm	21.52	ppm

Notes: A span adjustment was performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter

THC

Air Monitoring Network

Palliser Airshed

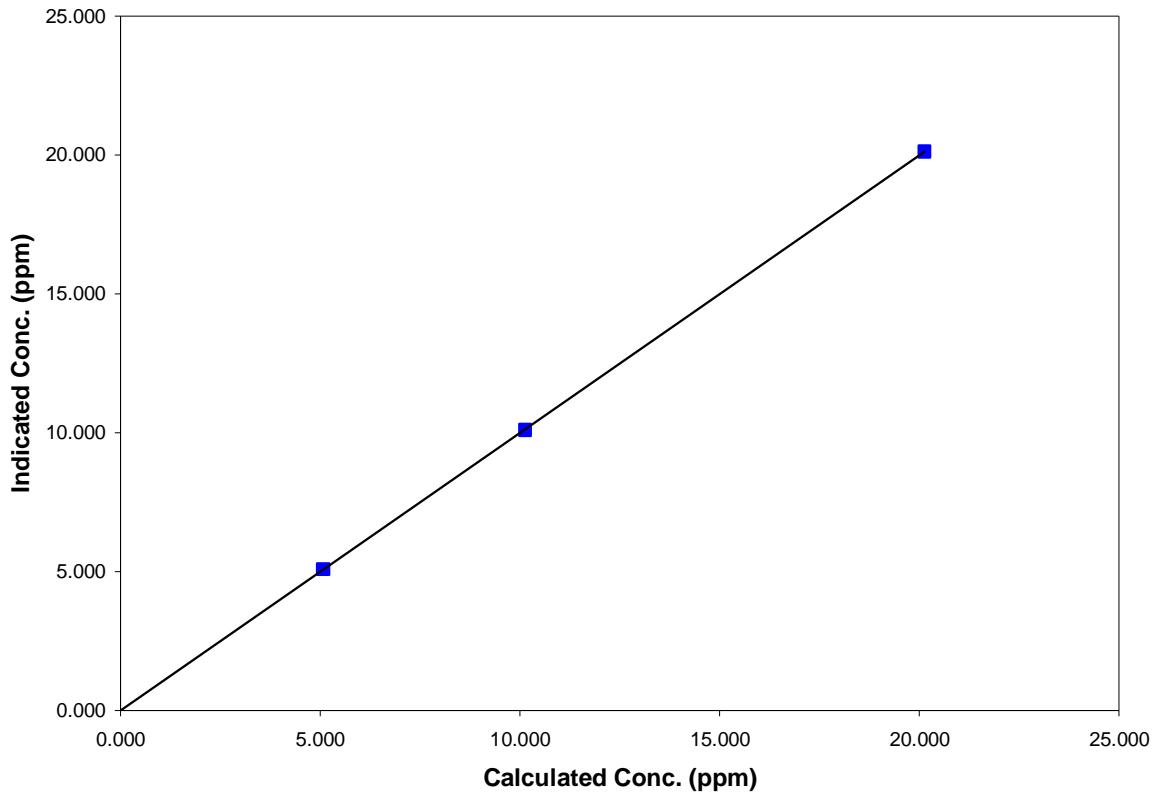
Station Information

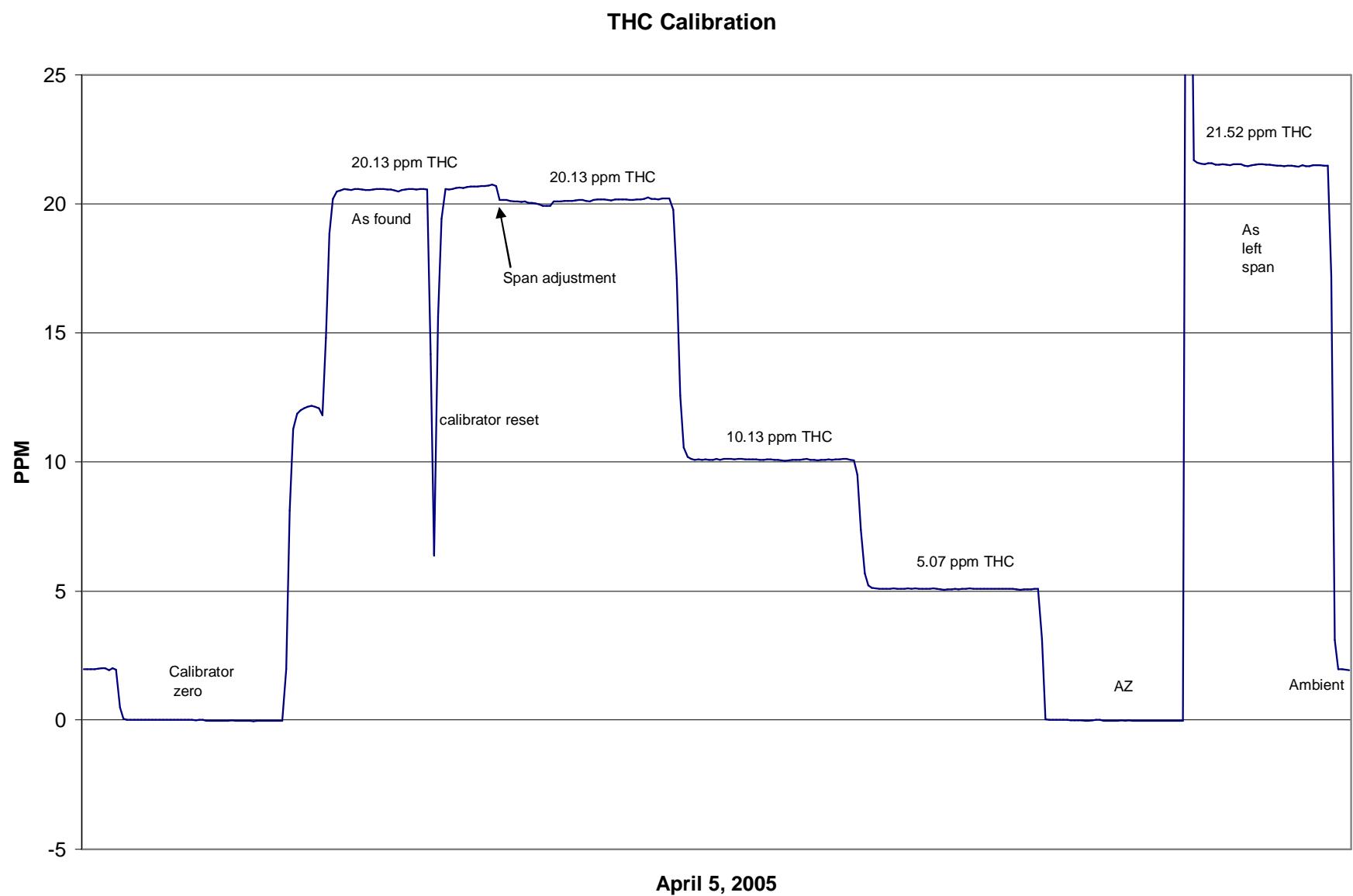
Calibration Date	April 5, 2005	Previous Calibration	March 3, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	15:18	End Time (MST)	18:20
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.017	N/A		
20.132	20.116	1.0008	Correlation Coefficient	0.999995
10.128	10.091	1.0036	Slope	1.000536
5.071	5.082	0.9978	Intercept	0.009655

THC Calibration Curve





Calibration Report

Parameter CO
 Air Monitoring Network Palliser



Station Information

Calibration Date	April 5, 2005	Previous Calibration	NA
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	19:00	End Time (MST)	21:30
Barometric Pressure	0.929 ATM	Station Temperature	22.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
DACS make	Focus AP1000	Cal Gas Cylinder #	BLM002248
DACS voltage range	0 - 1 volt	DACS serial No.	1
	Before	DACS channel #	9
DACS slope	NA	DACS slope	0.005000
DACS intercept	NA	DACS intercept	0.000000
Calculated slope	NA	Calculated slope	1.003685
Calculated intercept	NA	Calculated intercept	0.507728
Analyzer make	TEI Model 48CLT	Analyzer serial #	436609887
Concentration range	before	after	
	0 - 50 ppm	0 - 50	ppm
	769	1.026	
	523	3.134	
	691	1.1612	
		199700 Hz	Hz
	1.15 LPM	0.998	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	-0.50	N/A
4993	49.97	29.71	29.11	1.0204
4993	19.96	11.94	11.32	1.0549
4993	9.97	5.97	5.49	1.0886
4993	0.00	0.00	0.56	0.0000
4993	49.97	29.71	31.65	0.9386
Average Correction Factor				1.0546

Calculated value of As Found Response: NA ppm Percent Change of As Found: NA

Auto zero Auto span	before calibration		after calibration	
	NA	ppm	0.01	ppm
	NA	ppm	20.01	ppm

Notes: A zero and span adjustment were performed for installation.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter CO
Air Monitoring Network Palliser



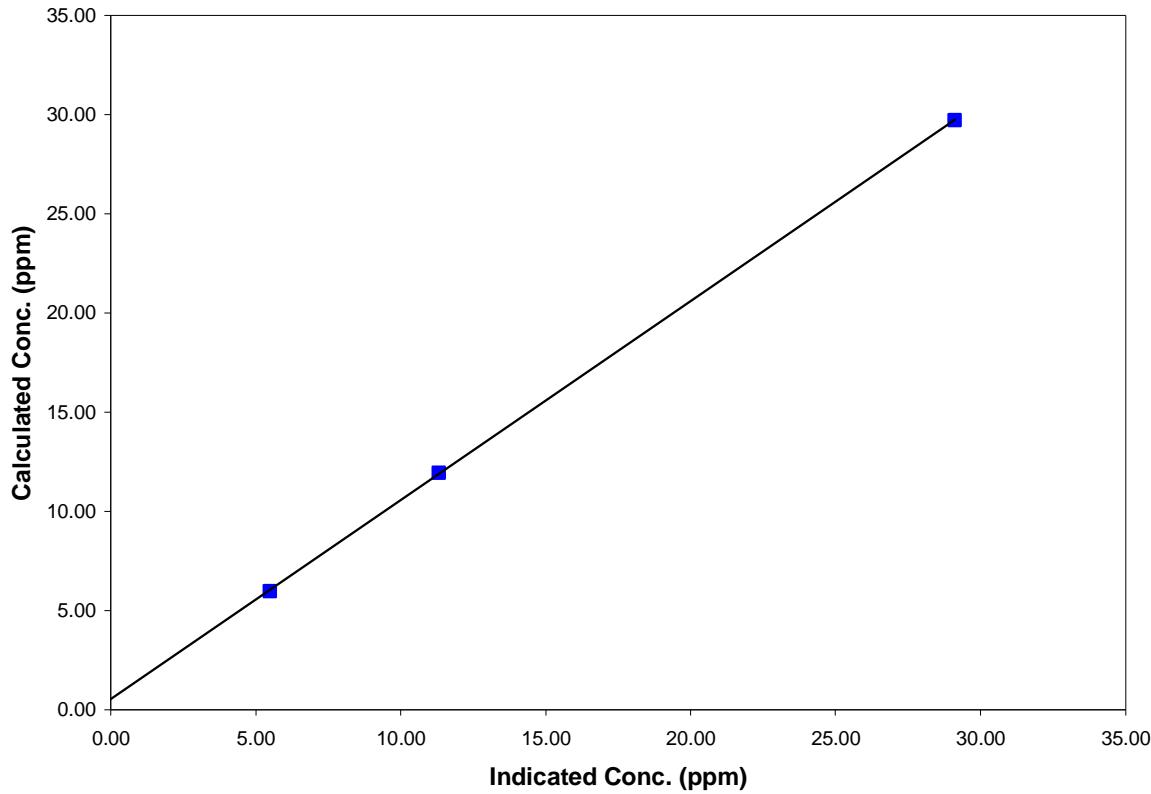
Station Information

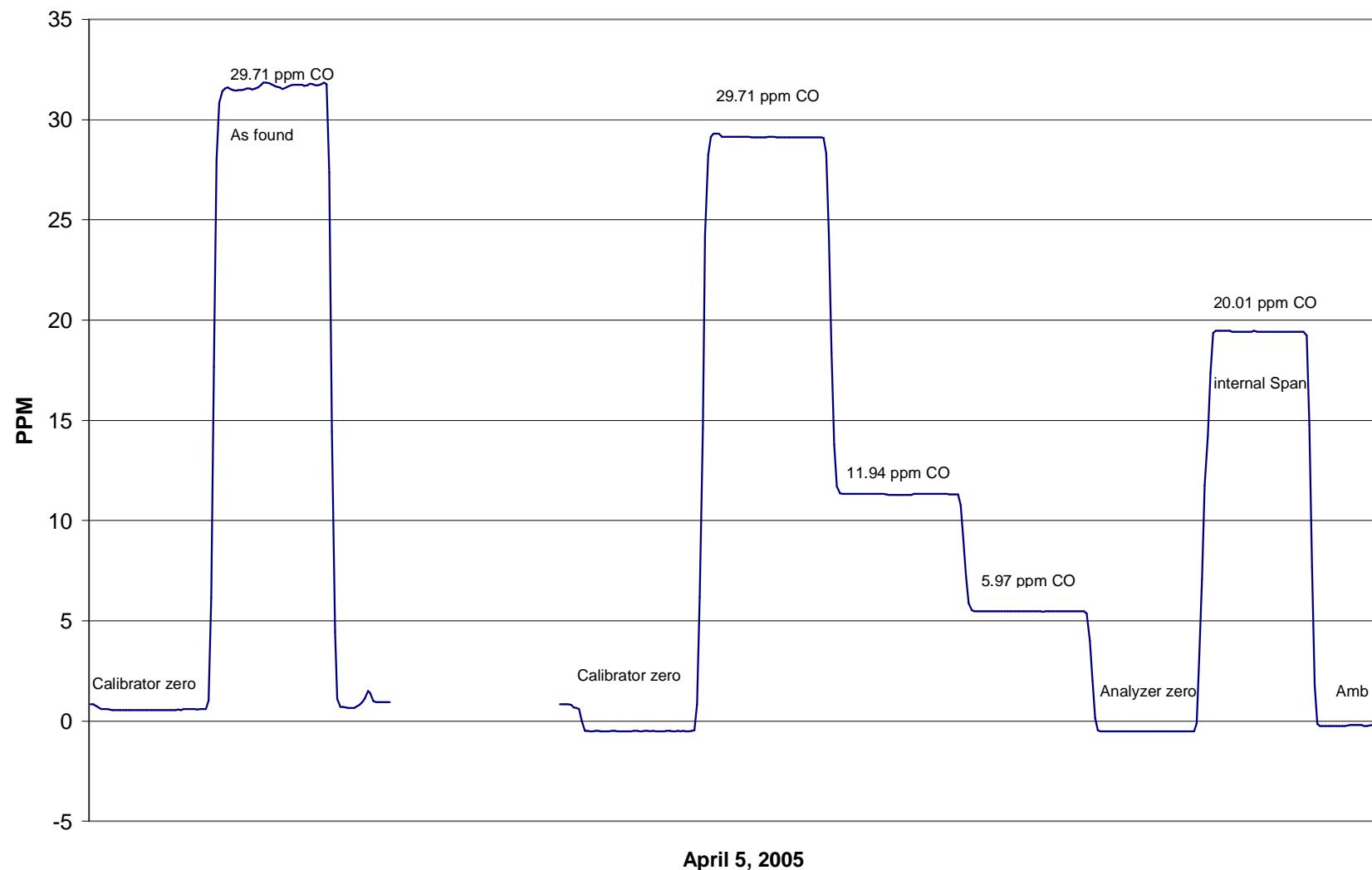
Calibration Date	April 5, 2005	Previous Calibration	NA
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	19:00	End Time (MST)	21:30
Analyzer make/model	TEI Model 48CLT	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.496	N/A		
29.707	29.112	1.0204	Correlation Coefficient	0.999985
11.937	11.316	1.0549	Slope	1.003685
5.974	5.488	1.0886	Intercept	0.507728

CO Calibration Curve



CO Calibration

Calibration Report



Parameter PM2.5
Air Monitoring Network Palliser Airshed

Station Information

Calibration Date	April 5, 2005	Previous Calibration	January 18, 2004
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	15:30	End Time (MST)	16:30
Barometric Pressure	0.929 ATM	Station Temperature	22.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
DACS slope	<u>Before</u> 0.050000	DACS slope	<u>After</u> 0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB237960110
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB237960110

	before		after
Main Flow Set Point	3.000	SLPM	3.000
Aux Flow Set Point	16.67	SLPM	16.67
Filter Load	33	%	34
Ko Factor	12758		12758
Temperature	13.1	Deg C	13.1
Pressure	0.929	ATM	0.929

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.07
zero flow - auxillary	0.0	0.00		0.08
flow recovery - main	45 - 60 Seconds	NA	45 - 60 Seconds	NA
flow recovery - aux	46 - 60 Seconds	NA	46 - 60 Seconds	NA
Temperature	measured	14.0	+/- 1.0 Deg C	13.1
Pressure	measured	0.929	+/- 1.5% ΔATM	0.929
Total Flow	16.67 SLPm	16.15		16.70
Main Flow	13.67 SLPm	13.20	+/- 1.0 SLPm	13.60
Auxillary Flow	3.0 SLPm	2.950	+/- 0.2 SLPm	3.000
Leak Check - main	0.0	0.00	<0.15 SLPm	0.05
Leak Check - aux	0.0	0.00	<0.15 SLPm	0.11
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Performed leak test and flow audit. Software adjusted main and auxiliary flows.

Calibration Performed By: Kelly Baragar

Calibration Report



Parameter PM2.5
 Air Monitoring Network Palliser Airshed

Station Information

Calibration Date	April 28, 2005	Previous Calibration	April 6, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	13:00	End Time (MST)	14:30
Barometric Pressure	0.929 ATM	Station Temperature	22.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
DACS slope	<u>Before</u> 0.050000	DACS slope	<u>After</u> 0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB237960110
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB237960110

	before		after
Main Flow Set Point	3.000	SLPM	3.000
Aux Flow Set Point	16.67	SLPM	16.67
Filter Load	41	%	21
Ko Factor	12758		12758
Temperature	0.8	Deg C	0.8
Pressure	0.928	ATM	0.928

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	NA		NA
zero flow - auxillary	0.0	NA		NA
flow recovery - main	45 - 60 Seconds	NA	45 - 60 Seconds	NA
flow recovery - aux	46 - 60 Seconds	NA	46 - 60 Seconds	NA
Temperature	measured	1.4	+/- 1.0 Deg C	0.9
Pressure	measured	0.929	+/- 1.5% ΔATM	0.928
Total Flow	16.67 SLPM	17.30		16.70
Main Flow	13.67 SLPM	14.30	+/- 1.0 SLPM	13.68
Auxillary Flow	3.0 SLPM	3.080	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	0.05
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.11
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Analyzer pegging full scale due to loaded filter (% loading was erroneous). Replaced filter; all seemed to perform leak test and flow audit. Software adjusted main and auxiliary flows.

Calibration Performed By: Kelly Baragar