



Palliser Airshed Society

Ambient Air Monitoring Network Summary

March 2008

Prepared By:



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April 29, 2008

Alberta Environment
12th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T6B 2X3

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – March 2008

Enclosed is the PAS Ambient Monitoring Report for the month of **March 2008**.

Continuous Monitoring – Crescent Heights and Portable-Brooks

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments.

Crescent Heights:

- ◆ All analyzers and instruments at the Crescent Heights Station were greater than 90% operational for the month of March.
- ◆ Alberta Environment performed a follow-up audit on the NO_x and O₃ analyzers on March 11th, for further information regarding the audit contact Dr. Kevin McCullum, Program Manager.
- ◆ The measured ambient air quality was within the Alberta Objectives and Federal guidelines with no exceedences recorded at the Crescent Heights Station
- ◆ The following is a summary of the monthly averages recorded during sampling:
 - Monthly average concentrations of NO₂ was 8.7 ppb
 - Monthly average concentrations for O₃ was 27.3 ppb
 - Monthly average concentrations for CO was 0.21 ppm
 - Monthly average concentrations for THC was 2.14 ppm
 - Monthly average concentrations for PM_{2.5} was 3.2 µg/m³
- ◆ The Air Quality Index (AQI) recorded 704 hours of Good readings for the month of March.

Portable-Brooks:

- ◆ All pollutant analyzers at the Portable Brooks Station were 100% operational for the month of March.
- ◆ The measured ambient air quality was within the Alberta Objectives and Federal guidelines with no exceedences recorded at the Portable - Brooks Station
- ◆ The following is a summary of the monthly averages recorded during sampling:
 - Monthly average concentrations of SO₂ was 0.4 ppb
 - Monthly average concentrations for H₂S was 0.2 ppb
 - Monthly average concentrations for O₃ was 30.0 ppb



Passive Monitoring – Twenty Sites throughout the PAS zone:

The passive sample analyses were performed by MAXXAM Analytics Inc. There were two duplicate sites sampled in the month of March: Site 7 and Site 17. The following are the ranges for March 2008 recorded by the twenty passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.2 to 0.5 ppb with a mean of 0.3 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 0.1 to 5.0 ppb with a mean of 1.7 ppb.
- ◆ Average concentrations for O₃ passives ranged from 28.0 to 48.8 ppb with a mean of 40.3 ppb.

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

Sharon Whiteley, B.Sc.
AQM Data Specialist

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



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Routine monthly calibrations were performed on March 28th (NO_x and), and March 31st (CO, O₃, and THC). An Alberta Environment follow-up audit was performed on March 11th.

Parameter	Make	Model	Units	Notes
Ozone	TECO	43I	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	No operational problems observed.
PM _{2.5}	R&P TEOM	1400ab	µg/m ³	A power bump on March 18 th resulted in one (1) hour of invalid data. Six (6) hours were flagged for excessive baseline drift. No other operational problems observed.
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/m ²	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



Continuous Monitoring

Ambient Air Monitoring Network

Portable-Brooks Station

General Station Issues

Routine monthly calibrations were performed on March 28th (SO₂ and H₂S) and March 31st (O₃).

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational problems observed.
Sulphur Dioxide	TEI	43A	ppb	No operational problems observed.
Hydrogen Sulphide	TEI	43A	ppb	No operational problems observed.
Wind Speed	Blue Sky		kph	No operational problems observed.
Wind Direction	Blue Sky		Deg	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



March 2008 Monthly Overall Summary Report

Ambient Air Quality Data



PAS - Crescent Heights

Monthly Summary Tables, Graphs and Roses



PAS - Crescent Heights - AQI Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: March 1, 2008 to April 1, 2008

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	704
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																									
	Hour Start 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-Mar-08	14	14	N	14	12	14	15	16	17	18	17	19	19	20	19	19	18	16	16	13	18	21	19	14		
2-Mar-08	15	N	7	8	15	14	14	14	15	16	16	15	15	15	15	14	15	15	14	11	9	11	9	6	6	
3-Mar-08	N	7	16	16	14	14	13	14	15	17	19	19	20	20	19	14	10	9	7	8	11	14	21	N		
4-Mar-08	13	14	9	7	8	10	12	12	13	16	16	15	16	17	17	18	18	17	12	6	10	12	N	13		
5-Mar-08	13	13	12	11	12	13	11	10	11	16	16	16	17	17	18	19	18	18	14	8	8	7	N	18	17	
6-Mar-08	17	19	19	18	15	15	15	13	13	15	15	16	18	20	21	21	20	16	15	15	N	10	7	8		
7-Mar-08	8	16	17	15	15	16	13	13	11	14	15	14	20	22	22	22	22	18	13	N	9	7	8	7		
8-Mar-08	8	7	8	7	6	6	6	6	5	6	13	18	21	22	22	21	21	18	N	10	14	6	5	6		
9-Mar-08	7	7	6	5	6	6	11	11	12	13	13	15	17	20	21	22	23	N	18	14	16	16	15	14		
10-Mar-08	13	14	14	12	9	6	4	5	5	9	11	14	15	20	20	20	20	N	17	14	11	13	11	12	13	
11-Mar-08	11	13	15	13	12	12	10	12	13	14	3	18	N	N	22	23	22	19	20	19	19	18	N	15		
12-Mar-08	16	16	N	16	16	16	15	15	15	17	18	20	20	20	20	19	16	11	12	11	7	12				
13-Mar-08	15	N	14	11	7	7	5	7	7	14	17	18	19	20	21	21	22	18	16	15	15	14	8			
14-Mar-08	N	7	10	4	6	4	6	9	11	12	14	20	22	23	22	21	19	21	21	20	18	18	16	N		
15-Mar-08	17	15	14	12	11	9	6	9	10	8	9	10	12	13	17	18	18	18	16	11	12	15	N	8		
16-Mar-08	7	5	7	5	5	5	5	5	8	12	13	14	15	15	13	13	12	9	6	5	N	5	5			
17-Mar-08	5	13	16	17	17	16	13	10	13	16	17	18	21	21	22	23	22	19	11	17	N	13	14	15		
18-Mar-08	13	11	6	7	5	5	4	5	9	12	15	18	N	22	22	N	21	21	19	N	12	11	13	13		
19-Mar-08	10	12	8	9	10	7	9	10	11	10	13	15	17	17	19	18	20	22	N	19	18	16	14	15		
20-Mar-08	13	5	4	6	6	7	10	9	8	8	20	20	21	23	22	23	22	N	18	18	16	14	10	6		
21-Mar-08	7	6	4	5	7	7	6	8	7	10	15	19	21	21	22	22	N	20	20	14	12	12	14	8		
22-Mar-08	9	4	3	5	5	5	5	10	7	14	15	16	19	20	21	N	21	21	19	13	10	9	12	16		
23-Mar-08	16	16	15	15	13	11	11	13	17	20	21	20	21	21	N	21	21	20	19	18	18	17	16	16		
24-Mar-08	16	15	13	13	12	13	14	17	16	13	16	19	20	N	20	N	20	20	19	17	18	17	16	14		
25-Mar-08	13	11	10	10	7	5	6	5	12	15	18	20	N	20	20	20	18	N	16	12	10	8	8	10		
26-Mar-08	11	11	9	13	11	10	5	5	11	16	19	N	22	22	23	23	23	23	19	12	8	9	6	5		
27-Mar-08	5	6	6	6	6	5	5	6	8	8	N	16	21	23	21	20	20	20	20	19	18	15	14			
28-Mar-08	15	13	16	17	11	8	9	10	15	N	19	20	21	22	23	23	23	21	17	19	17	15	16			
29-Mar-08	14	13	N	13	15	17	16	18	18	19	18	19	20	20	21	22	22	20	18	16	15	13	14			
30-Mar-08	14	N	12	13	15	15	15	16	16	16	17	18	19	20	20	20	19	19	17	17	17	17	17	17		
31-Mar-08	N	18	18	15	13	13	16	16	17	17	N	4	2	18	18	18	19	17	17	12	11	14	14	11		



PAS - Crescent Heights Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	43.4 ppb	8-Mar	20:00 21:00
Maximum 24-hr Average:	19.5 ppb	8-Mar	

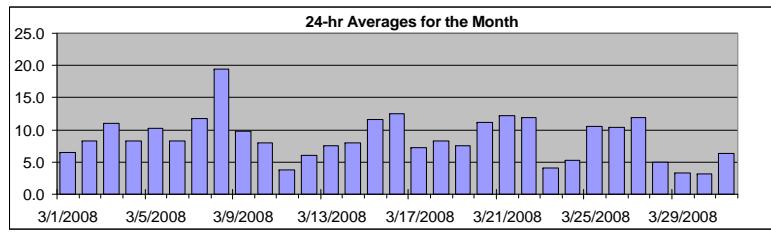
AIC Time:	32 hrs	Operational Time:	704 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.0	25.8	10.9	5.5	3.5	2.0	1.4	8.7 ppb	5.5 ppb

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 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	24:00			
1-Mar-08	5	4	A	5	11	7	6	4	3	3	6	4	7	5	8	8	6	9	8	10	7	3	5	14	6.5	13.7	
2-Mar-08	7	A	21	14	5	3	3	3	3	3	2	3	4	4	5	4	4	6	10	14	9	13	23	27	8.2	26.8	
3-Mar-08	A	21	4	4	6	5	7	9	7	5	4	3	4	4	5	14	20	23	29	34	17	11	4	A	11.0	34.4	
4-Mar-08	18	9	11	8	6	5	6	6	6	4	4	4	3	4	4	4	6	7	16	27	14	10	A	7	8.3	26.5	
5-Mar-08	5	5	7	8	9	9	9	11	10	6	6	6	5	5	6	7	6	13	34	35	20	A	6	5	10.2	35.3	
6-Mar-08	5	3	3	3	4	3	3	5	6	4	3	2	1	2	2	3	5	11	7	9	A	43	30	33	8.2	42.7	
7-Mar-08	21	6	3	4	5	3	9	7	11	6	7	11	6	4	5	4	4	9	9	A	39	30	33	30	11.7	39.4	
8-Mar-08	32	28	33	30	26	27	26	21	19	21	8	5	4	3	4	5	4	11	A	27	43	25	21	24	19.5	43.4	
9-Mar-08	31	28	24	16	14	18	9	9	5	3	4	3	3	3	3	3	3	A	9	11	9	8	7	5	9.8	31.3	
10-Mar-08	7	3	3	5	11	13	17	22	18	10	7	5	5	3	5	3	A	8	10	9	5	5	7	4	8.0	21.5	
11-Mar-08	7	4	2	3	6	6	10	C	C	C	3	3	3	3	2	3	3	3	3	2	3	3	3	3	3.8	10.4	
12-Mar-08	3	2	A	4	3	4	5	7	4	6	5	2	2	3	3	4	4	3	6	15	13	11	18	12	6.1	18.3	
13-Mar-08	5	A	6	8	12	14	18	29	16	9	5	4	4	5	3	3	2	3	4	4	3	2	3	13	7.5	28.7	
14-Mar-08	A	12	7	17	24	19	26	25	5	3	3	2	4	4	4	4	7	2	1	1	1	1	2	A	8.0	25.7	
15-Mar-08	4	3	3	4	4	9	14	9	9	14	12	11	11	11	6	4	3	5	7	18	38	36	A	32	11.5	37.6	
16-Mar-08	29	22	11	21	22	23	21	17	5	3	3	2	2	2	2	4	6	6	11	17	22	A	22	15	12.4	29.0	
17-Mar-08	22	7	2	2	2	4	9	14	9	4	6	5	2	3	3	1	3	8	24	9	A	11	10	6	7.2	24.3	
18-Mar-08	8	9	16	12	15	15	13	13	6	5	4	4	2	2	3	3	5	5	8	A	15	12	10	6	8.3	15.5	
19-Mar-08	11	6	8	6	5	11	11	12	12	10	8	8	6	9	7	9	7	5	A	7	3	3	5	3	7.5	11.9	
20-Mar-08	5	17	18	25	24	27	26	23	18	11	6	6	6	3	5	4	3	A	5	4	3	3	6	9	11.1	26.8	
21-Mar-08	10	25	17	21	31	28	25	15	8	4	2	2	2	2	2	4	A	8	6	17	17	13	7	16	12.2	31.2	
22-Mar-08	8	15	13	21	20	22	21	20	13	3	4	5	3	3	2	2	A	6	5	9	18	21	20	16	11.8	22.3	
23-Mar-08	3	3	4	5	7	10	11	8	4	3	3	3	3	2	A	4	3	4	4	2	2	2	2	4.1	10.6		
24-Mar-08	2	1	9	9	6	7	9	8	4	6	7	5	4	A	5	3	2	2	4	5	5	6	7	5.3	9.5		
25-Mar-08	7	8	9	11	17	23	23	20	8	5	4	3	A	5	5	4	9	4	10	15	17	16	13	8	10.6	23.1	
26-Mar-08	5	7	14	6	11	13	21	20	10	4	2	A	4	4	3	3	2	2	9	21	27	15	18	20	10.5	26.7	
27-Mar-08	23	25	26	25	26	23	21	18	20	18	A	5	2	1	3	6	5	4	3	2	4	4	5	5	11.9	26.2	
28-Mar-08	4	3	3	4	5	9	9	8	5	A	5	4	4	3	3	C	C	C	C	C	3	6	7	5	5.0	9.1	
29-Mar-08	5	6	A	5	3	2	4	4	3	2	2	2	2	2	2	2	2	1	2	3	3	6	6	5	3	3.3	6.3
30-Mar-08	3	A	6	5	3	2	2	2	2	2	2	2	2	2	2	2	5	4	6	4	4	3	3	2	3.2	6.3	
31-Mar-08	A	5	4	8	8	10	5	4	2	3	5	3	2	4	5	5	4	9	8	14	13	7	7	13	6.4	14.3	
Hourly Avg	10.5	10.3	10.3	10.3	11.4	12.1	12.9	8.4	6.2	4.7	4.4	3.8	3.5	3.9	4.4	4.9	6.4	9.5	12.7	13.2	11.4	10.3	11.5				
Hourly Max	32.4	27.7	33.3	30.3	31.2	28.0	26.1	28.7	20.2	21.1	12.2	11.5	10.6	8.3	13.8	20.5	23.4	34.0	35.3	43.4	42.7	33.4	33.5				

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)



Status Flag Characters

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

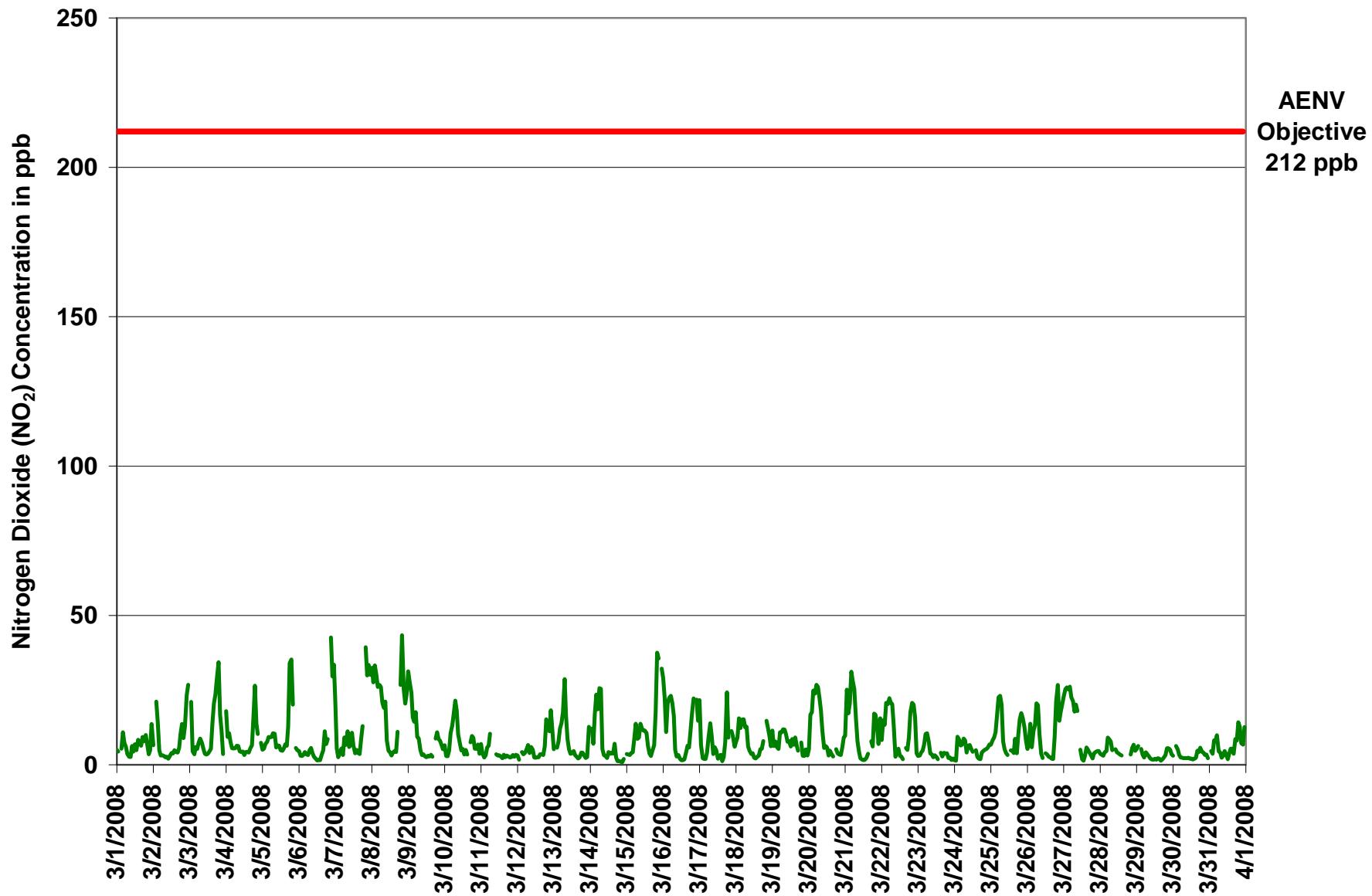


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

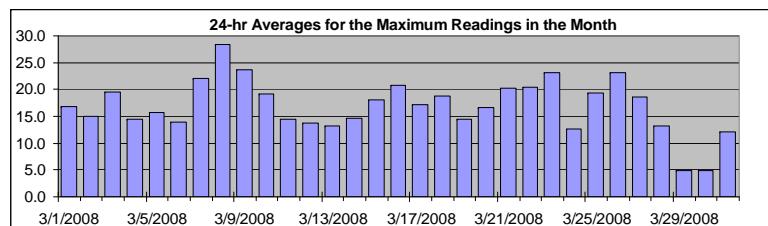
Nitrogen Dioxide (NO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	68.6 ppb	16-Mar	3:00 4:00
Maximum 24-hr Value:	28.4 ppb	8-Mar	

AIC Time:	32 hrs	Operational Time:	704 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	54.2 41.6 25.7 12.3 6.5 3.3 2.7	16.9 ppb	12.3 ppb



Status Flag Characters

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

Day Mountain Standard Time

	Hour Start Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Mar-08	7 1:00	7	7	A	7	26	10	29	21	4	4	30	9	11	7	18	24	23	45	15	14	15	7	17	37	16.8	45.0	
2-Mar-08	10 1:00	10	A	31	21	9	5	5	4	5	6	3	5	6	7	7	7	37	7	13	38	11	43	29	37	15.0	42.7	
3-Mar-08	1:00	A	28	11	6	9	7	11	11	8	21	12	16	8	8	51	33	31	44	50	25	19	8	A	19.5	51.1		
4-Mar-08	1:00	36	13	16	12	9	7	7	10	9	5	6	9	4	24	12	10	8	11	26	32	28	27	A	14.4	36.5		
5-Mar-08	1:00	6	7	14	13	31	21	12	14	15	8	11	8	6	6	8	11	9	27	43	46	32	A	9	6	15.8	45.8	
6-Mar-08	1:00	8	6	5	4	6	5	6	8	7	6	4	3	2	3	3	5	15	37	13	12	A	51	44	63	13.9	63.3	
7-Mar-08	1:00	35	40	3	22	25	8	30	27	34	10	8	15	12	7	11	6	6	14	22	A	43	43	46	41	22.1	46.0	
8-Mar-08	1:00	41	37	38	34	32	29	39	29	27	25	15	7	8	4	6	34	7	38	A	49	56	33	30	37	28.4	56.1	
9-Mar-08	1:00	36	38	36	23	36	34	20	23	29	5	23	5	4	23	22	36	4	A	12	42	12	49	11	19	23.6	48.7	
10-Mar-08	1:00	36	23	5	8	23	25	31	36	26	15	15	7	30	4	54	19	A	9	12	16	6	10	24	5	19.1	54.3	
11-Mar-08	1:00	29	30	4	26	32	20	56	C	C	C	17	11	5	5	4	5	3	6	7	7	6	5	11	13	14.5	56.5	
12-Mar-08	1:00	13	3	A	14	11	8	11	12	10	21	15	4	5	14	7	6	5	7	16	23	31	24	26	27	13.7	30.6	
13-Mar-08	1:00	9	A	7	12	16	19	25	44	41	13	8	6	7	17	7	4	3	4	6	6	5	3	6	36	13.2	44.2	
14-Mar-08	1:00	A	16	13	29	28	37	43	39	10	5	5	6	23	20	8	6	13	5	3	3	3	2	4	A	14.6	43.3	
15-Mar-08	1:00	7	6	5	9	8	21	19	16	15	25	16	20	23	13	10	5	4	11	11	34	44	55	A	41	18.1	54.6	
16-Mar-08	1:00	35	32	16	69	37	28	26	23	13	6	6	3	3	3	4	19	10	9	18	43	30	A	24	21	20.7	68.6	
17-Mar-08	1:00	30	24	10	3	14	12	25	32	29	10	9	9	5	12	7	3	5	23	40	17	A	18	35	24	17.2	40.3	
18-Mar-08	1:00	13	16	24	30	20	22	25	37	9	18	18	18	5	16	35	6	11	11	18	A	29	22	22	8	18.8	37.2	
19-Mar-08	1:00	36	14	14	9	7	18	14	18	50	28	12	11	11	11	10	22	9	7	A	11	5	4	8	4	14.5	49.9	
20-Mar-08	1:00	23	28	29	29	26	34	31	26	24	22	8	10	8	5	7	5	4	A	9	6	5	6	20	16	16.6	34.3	
21-Mar-08	1:00	15	34	25	31	45	46	27	20	15	6	4	3	3	3	4	36	A	19	8	33	22	21	12	31	20.2	45.6	
22-Mar-08	1:00	36	32	21	25	23	25	24	27	19	4	9	27	6	6	3	A	8	7	38	23	31	39	31	8	20.5	38.6	
23-Mar-08	1:00	16	18	38	62	20	26	25	32	5	56	33	9	20	3	A	15	4	28	28	42	4	24	2	20	23.0	62.3	
24-Mar-08	1:00	3	3	43	28	10	28	22	31	7	8	9	10	9	A	7	5	3	4	14	9	9	8	10	14	12.7	42.7	
25-Mar-08	1:00	9	13	12	14	39	34	35	26	11	7	5	5	5	A	7	13	7	34	7	23	23	45	47	17	12	19.4	47.4
26-Mar-08	1:00	8	34	37	12	35	49	36	34	26	5	3	A	13	19	11	21	3	4	18	40	42	27	30	25	23.1	49.3	
27-Mar-08	1:00	29	33	32	32	28	29	23	21	34	22	A	7	3	3	5	38	25	7	7	5	10	7	6	21	18.6	37.7	
28-Mar-08	1:00	5	21	5	40	18	25	35	10	7	A	7	6	9	6	5	C	C	C	C	C	5	8	18	6	13.2	39.9	
29-Mar-08	1:00	7	9	A	8	4	4	6	5	4	3	3	3	3	3	4	3	2	3	4	6	10	8	7	5	4.9	9.6	
30-Mar-08	1:00	4	A	8	7	5	4	3	3	3	3	4	3	3	2	4	6	7	7	9	8	6	6	5	4	5.0	9.0	
31-Mar-08	1:00	A	7	4	12	13	14	12	7	3	5	7	13	4	6	19	8	8	19	11	26	18	11	13	37	12.2	36.6	

Hourly Avg 19.4 20.5 18.0 21.0 20.9 21.1 23.0 21.6 16.7 12.4 11.2 8.8 8.9 8.9 10.8 14.5 10.8 14.5 17.5 23.7 20.3 21.6 18.2 21.6

Hourly Max 41.2 40.3 42.7 68.6 45.5 49.3 56.5 44.2 49.9 56.2 32.9 26.6 30.1 23.5 54.3 51.1 36.9 45.0 44.5 50.0 56.1 54.6 46.0 63.3

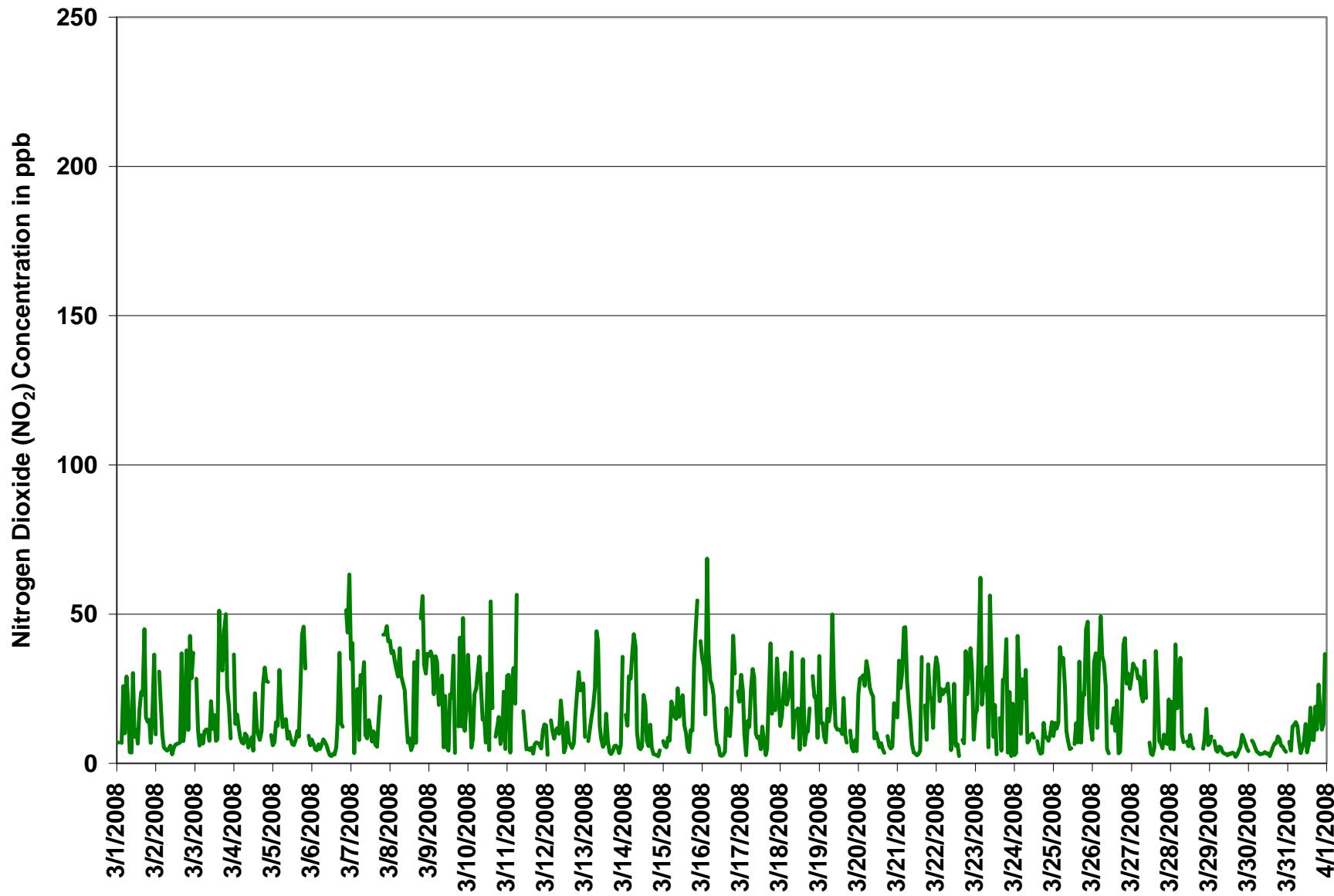
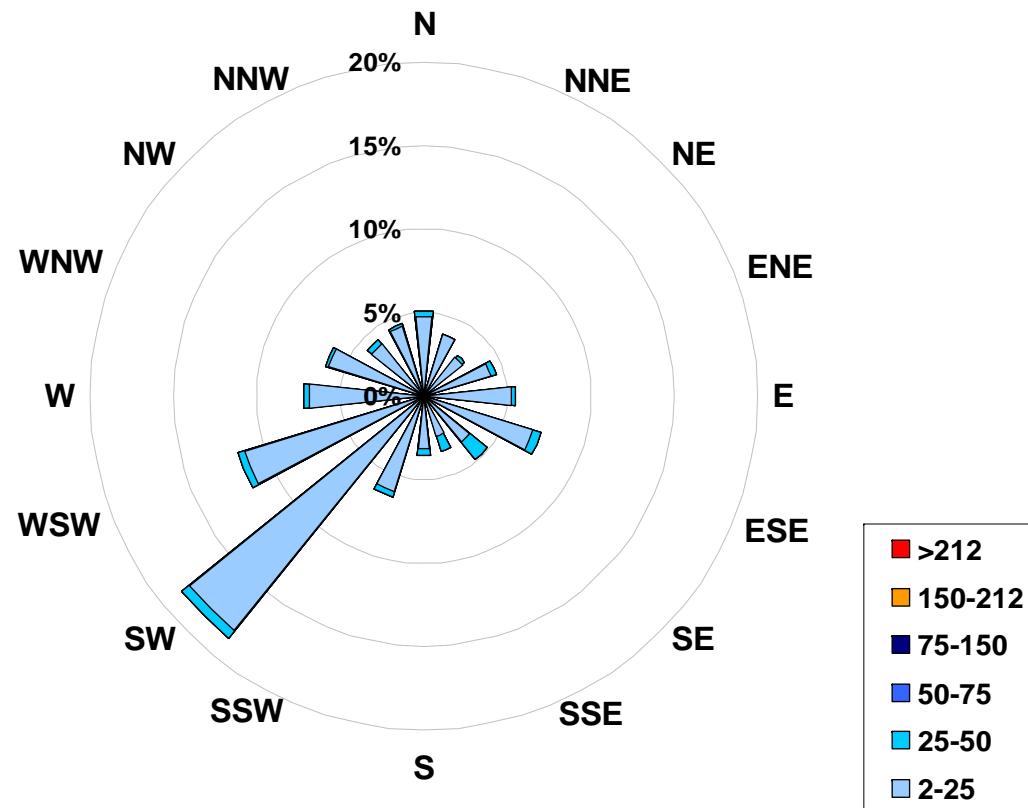


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at
the Crescent Heights Site for March 2008



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

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range		Frequency	
2.0	<	25	681
25	to	50	20
50	to	75	3
75	to	150	0
150	to	212	0
>	212		0
Total Non-Zero Values			704



PAS - Crescent Heights Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

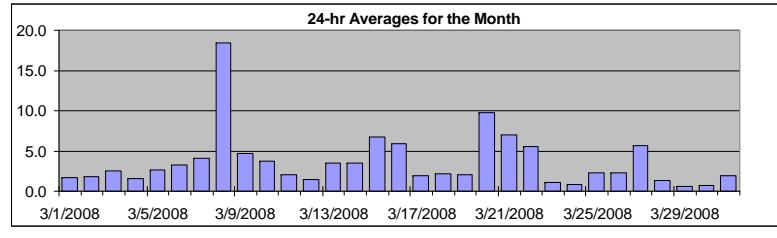
Maximum 1-hr Average:	60.1	ppb	20-Mar	5:00 6:00
Maximum 24-hr Average:	18.4	ppb	8-Mar	

AIC Time:	32 hrs	Operational Time:	704 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.0	16.2	2.8	1.4	0.7	0.2	0.0	3.7 ppb	1.4 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	1	1	A	1	2	1	2	2	1	1	5	2	2	1	2	2	1	4	1	1	1	1	1	1	1	4	1.7	4.6
2-Mar-08	1	A	1	1	1	1	1	1	1	1	2	3	2	2	3	2	3	1	0	3	0	3	2	6		1.9	6.3	
3-Mar-08	A	3	0	0	0	0	1	1	2	2	2	2	1	1	1	1	6	5	3	9	12	2	1	1	A	2.6	11.5	
4-Mar-08	1	1	2	2	2	1	1	2	2	1	1	2	2	2	2	2	2	1	1	2	1	2	A	0	1.6	2.5		
5-Mar-08	0	0	1	1	3	1	1	3	3	1	2	2	2	2	2	2	2	2	8	16	5	A	1	1	2.6	15.5		
6-Mar-08	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	2	4	1	1	A	28	10	16		3.2	28.1	
7-Mar-08	3	2	0	1	2	0	6	2	6	3	4	5	2	2	2	2	1	2	2	A	10	8	20	11		4.1	19.9	
8-Mar-08	18	13	41	39	31	43	58	25	33	33	6	2	2	1	2	2	1	3	A	7	49	2	4	7		18.4	58.5	
9-Mar-08	23	20	14	3	3	7	1	4	4	2	4	2	2	2	2	3	1	A	1	6	1	3	0	1		4.7	22.9	
10-Mar-08	5	2	1	1	3	4	8	16	17	6	5	3	4	2	3	2	A	1	1	1	1	1	1	1	3	1	3.8	16.8
11-Mar-08	5	5	0	1	3	2	5	C	C	C	3	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	2.0	5.5
12-Mar-08	1	1	A	1	1	1	1	2	1	3	2	1	2	2	1	1	1	1	1	1	2	3	2	1	1	1.4	2.8	
13-Mar-08	0	A	1	1	1	3	4	34	13	5	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	7	3.5	34.0
14-Mar-08	A	0	0	0	1	8	4	14	35	2	1	1	2	1	1	1	2	1	0	0	0	0	0	0	0	A	3.5	34.8
15-Mar-08	0	0	0	0	0	1	0	1	0	1	2	10	9	7	5	4	1	1	0	0	0	1	18	45	A	6.8	49.7	
16-Mar-08	37	16	1	13	11	10	11	13	1	1	1	1	1	0	1	3	3	3	1	1	3	6	A	2	0		5.9	37.0
17-Mar-08	4	0	0	0	0	1	1	4	7	6	2	3	2	1	1	1	1	1	1	1	2	1	A	1	3	1	2.0	6.9
18-Mar-08	1	0	1	3	1	2	5	11	4	4	3	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2.1	11.0
19-Mar-08	4	1	1	1	1	1	2	2	6	6	3	3	2	4	3	3	1	1	1	A	0	0	0	0	0	2.1	6.3	
20-Mar-08	0	5	3	10	23	60	59	26	19	9	2	2	2	1	1	1	0	A	0	0	0	0	0	0	1	9.7	60.1	
21-Mar-08	0	19	4	5	43	38	27	10	5	2	1	0	0	0	1	2	A	1	0	0	0	1	0	0	7.0	43.1		
22-Mar-08	3	7	2	6	5	16	20	33	13	1	2	3	1	1	0	A	1	0	1	2	2	3	3	0	5.5	33.1		
23-Mar-08	1	1	2	2	1	2	1	3	1	2	0	1	1	0	A	1	0	2	1	3	0	1	0	1	1.1	2.7		
24-Mar-08	0	0	5	2	0	1	1	2	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0.8	5.2		
25-Mar-08	0	0	0	0	3	5	7	10	4	2	2	1	A	1	1	1	3	1	1	0	8	2	0	0	2.3	10.2		
26-Mar-08	0	4	3	0	2	7	7	10	7	1	1	A	1	1	1	1	0	0	0	1	2	1	0	1	2.3	10.4		
27-Mar-08	3	4	4	7	12	8	12	17	32	20	A	2	1	1	1	3	1	1	0	0	1	1	1	0	5.7	31.6		
28-Mar-08	0	1	1	4	1	3	3	2	1	A	2	2	2	1	1	C	C	C	C	C	1	0	0	0	1.4	3.7		
29-Mar-08	0	1	A	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.6	1.1		
30-Mar-08	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	0.7	1.8	
31-Mar-08	A	1	1	3	3	2	1	2	1	2	4	4	2	3	4	4	2	2	1	0	0	0	0	1	1.9	4.4		
Hourly Avg	4.0	3.9	3.3	3.5	5.4	7.3	8.6	9.3	6.3	4.4	2.5	2.0	1.6	1.5	1.5	1.8	1.4	1.3	1.3	2.3	4.0	3.7	2.0	4.0				
Hourly Max	37.0	19.6	41.2	39.1	43.1	60.1	59.5	34.8	33.5	33.0	8.8	6.8	5.0	4.0	3.9	5.9	5.3	4.3	8.8	15.5	48.7	44.8	19.9	49.7				

HOURLY AVERAGE TABLE

Nitric Oxide (NO)



Status Flag Characters

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



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

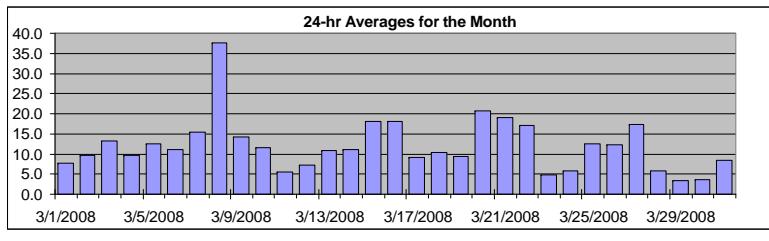
Maximum 1-hr Average:	91.6	ppb	8-Mar	20:00 21:00
Maximum 24-hr Average:	37.5	ppb	8-Mar	

AIC Time:	32 hrs	Operational Time:	704 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	73.8	41.2	13.3	6.7	4.2	2.2	1.5	12.1 ppb	6.7 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Mar-08	5	5	A	6	13	8	7	5	3	4	10	5	9	6	10	10	8	13	9	11	8	4	5	18	7.8	17.6	
2-Mar-08	7	A	22	15	5	4	4	4	3	4	3	5	6	6	8	6	6	6	11	17	9	15	25	33	9.7	32.7	
3-Mar-08	A	24	4	4	6	5	8	10	9	7	6	5	5	6	7	20	25	27	37	46	18	13	4	A	13.4	45.7	
4-Mar-08	19	10	12	10	8	6	6	8	8	5	6	6	5	6	7	6	7	7	17	28	15	11	A	7	9.6	27.8	
5-Mar-08	5	5	7	8	12	10	10	13	13	7	8	8	6	6	7	9	8	15	42	50	24	A	6	6	12.4	50.4	
6-Mar-08	5	3	3	3	4	4	3	5	7	5	4	3	2	2	2	4	7	15	7	9	A	70	40	49	11.1	70.4	
7-Mar-08	24	7	3	4	7	3	15	8	17	9	10	15	9	5	7	5	4	10	14	A	49	38	53	41	15.5	52.9	
8-Mar-08	50	40	74	69	57	70	84	46	52	54	14	7	6	4	5	7	5	13	A	34	92	27	24	30	37.5	91.6	
9-Mar-08	54	47	38	18	17	25	10	12	8	5	8	4	4	5	5	6	3	A	9	16	9	11	7	6	14.2	53.8	
10-Mar-08	11	4	3	5	13	17	25	37	34	16	12	7	9	5	7	5	A	8	10	10	6	6	10	4	11.5	37.3	
11-Mar-08	12	9	3	4	9	8	15	C	C	C	6	5	5	4	3	4	3	4	4	3	3	4	3	4	5.5	15.4	
12-Mar-08	4	2	A	5	4	4	6	8	5	8	7	4	4	4	4	5	4	4	4	7	17	16	13	19	13	7.3	19.1
13-Mar-08	5	A	6	8	13	17	21	62	29	13	7	5	5	7	4	3	2	3	4	4	3	2	2	19	10.8	62.4	
14-Mar-08	A	12	7	18	32	22	39	60	7	4	4	3	6	5	5	5	8	3	1	1	1	1	2	A	11.2	59.9	
15-Mar-08	4	4	3	4	4	9	14	10	11	23	21	18	16	14	7	4	3	5	6	18	55	80	A	82	18.1	81.7	
16-Mar-08	66	38	12	33	33	33	32	29	6	3	4	3	2	2	2	7	10	7	11	19	28	A	24	15	18.1	65.6	
17-Mar-08	26	7	3	2	3	5	13	21	15	6	9	7	3	4	5	2	3	9	27	10	A	12	13	7	9.1	26.6	
18-Mar-08	8	10	17	15	16	17	18	24	10	8	6	6	3	3	4	4	6	6	8	A	16	13	10	7	10.2	23.6	
19-Mar-08	15	7	8	6	6	12	13	14	18	16	11	10	8	12	10	12	8	5	A	8	3	3	5	3	9.3	17.8	
20-Mar-08	5	22	21	34	46	87	85	49	37	20	7	8	7	3	6	4	3	A	5	4	3	3	6	10	20.6	86.5	
21-Mar-08	10	43	20	25	74	66	52	25	13	6	2	2	2	3	5	A	8	6	17	18	13	7	16	19.0	73.9		
22-Mar-08	11	22	15	26	25	38	41	53	26	3	7	8	4	3	2	A	6	5	10	20	22	23	18	17.0	53.2		
23-Mar-08	3	3	6	7	7	12	11	10	4	5	2	4	3	2	A	4	3	5	4	6	2	3	1	4.9	11.9		
24-Mar-08	1	1	14	11	6	8	10	10	4	8	8	6	5	A	5	3	2	2	4	4	5	5	5	7	5.8	14.3	
25-Mar-08	7	8	9	11	20	27	30	30	11	7	5	4	A	5	5	4	12	4	11	16	25	17	13	8	12.6	30.0	
26-Mar-08	5	11	17	6	13	20	27	30	17	5	2	A	4	4	3	3	2	2	9	22	29	15	18	21	12.4	30.1	
27-Mar-08	25	29	30	32	37	31	32	35	51	38	A	7	2	2	4	8	6	4	3	2	4	5	5	6	17.3	51.4	
28-Mar-08	4	4	3	8	5	12	11	10	6	A	7	5	5	4	4	C	C	C	C	C	4	5	5	5.8	11.5		
29-Mar-08	4	7	A	5	3	5	4	3	3	2	3	2	3	2	2	3	1	2	2	3	6	5	4	3.5	7.1		
30-Mar-08	3	A	6	5	3	2	2	2	3	2	3	2	3	2	2	3	6	5	6	5	4	4	4	3.6	6.3		
31-Mar-08	A	5	4	11	11	12	6	5	4	5	9	7	4	7	10	9	6	12	9	15	13	8	7	14	8.4	15.0	
Hourly Avg	14.2	13.9	13.2	13.5	16.6	19.1	21.2	21.3	14.5	10.3	6.9	6.1	5.1	4.7	5.2	5.9	6.0	7.4	10.6	14.8	16.9	14.8	12.0	15.2			
Hourly Max	65.6	46.9	74.0	69.0	73.9	86.5	85.2	62.4	52.3	53.8	20.8	18.2	16.4	14.5	9.7	19.6	25.4	26.8	41.7	50.4	91.6	80.1	52.9	81.7			

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)



Status Flag Characters

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

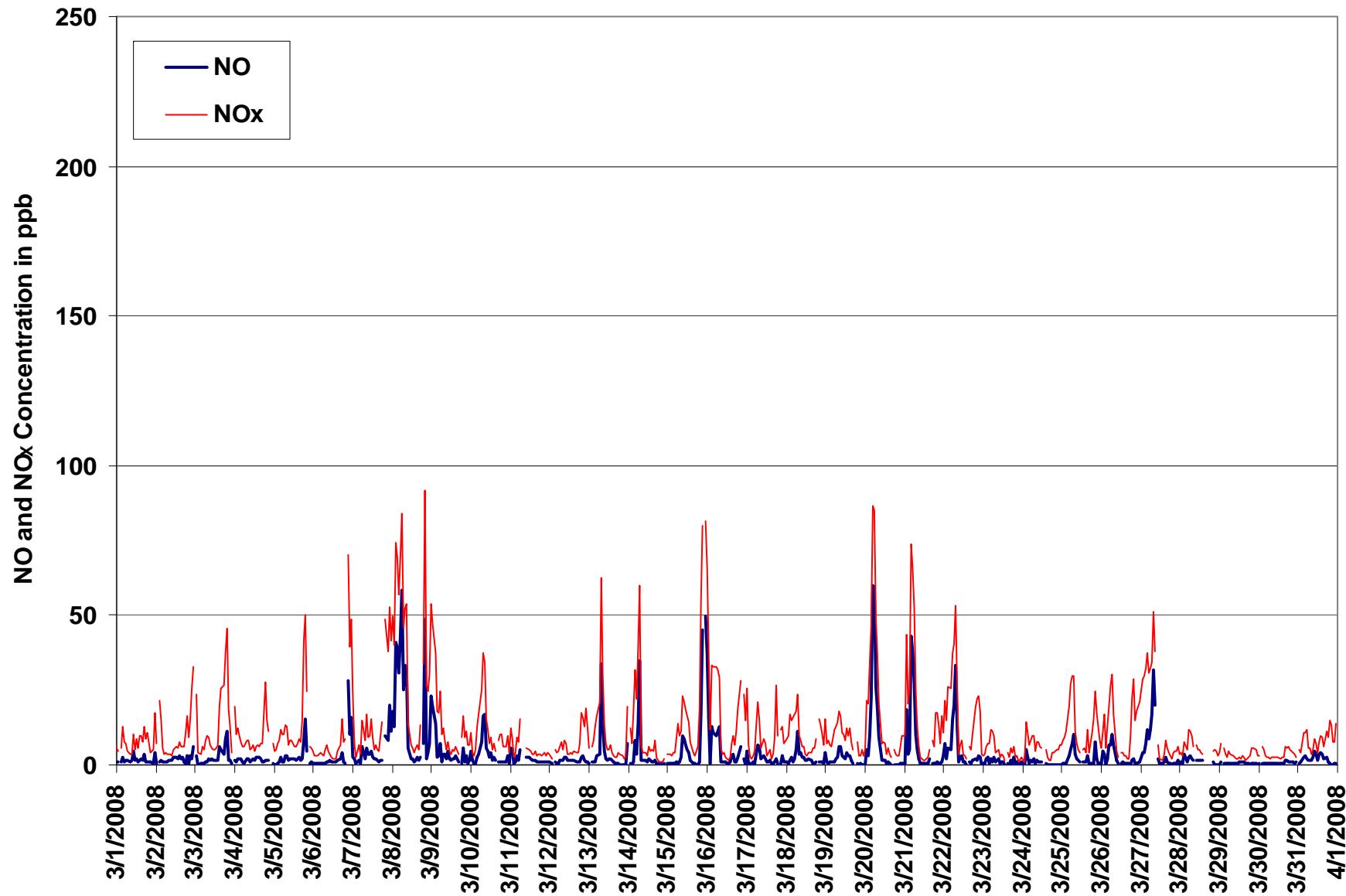


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

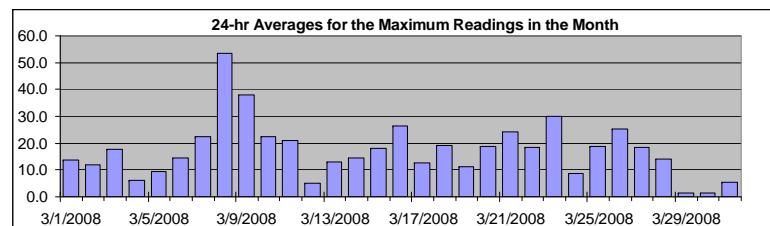
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	296.8 ppb	8-Mar	6:00 7:00
Maximum 24-hr Value:	53.3 ppb	8-Mar	



AIC Time:	32 hrs						Operational Time:						704 hrs						
	Calibration Time: 8 hrs						AMD Operational Uptime: 100.0%												
Percentile	99	95	75	50	25	5	1	Average			Median								
	127.1	76.3	22.1	3.8	1.9	1.0	0.8	127.3	ppb	ppb	3.8	ppb	ppb						

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	2	2	A	2	20	2	35	39	2	2	46	3	4	3	4	16	11	74	5	4	3	3	3	6	27	13.7	74.0
2-Mar-08	2	A	4	9	3	2	2	2	3	4	3	5	5	5	5	4	69	3	2	64	2	60	6	15	12.1	68.9	
3-Mar-08	A	8	2	2	2	1	3	3	8	2	33	45	7	4	4	54	18	12	101	68	5	4	2	A	17.7	100.9	
4-Mar-08	7	4	5	4	4	3	2	12	5	2	6	7	3	9	10	7	3	3	4	4	26	12	A	6.2	26.0		
5-Mar-08	1	1	19	4	22	3	3	7	5	3	4	7	3	3	4	4	3	41	46	27	A	1	2	9.4	46.1		
6-Mar-08	1	1	1	1	2	2	1	2	2	3	2	2	2	2	2	3	5	101	2	2	A	65	28	101	14.4	100.8	
7-Mar-08	32	66	1	22	18	1	87	26	50	6	5	6	5	4	6	4	3	7	13	A	17	38	61	35	22.2	87.1	
8-Mar-08	37	80	103	52	44	51	297	77	92	49	14	4	4	3	4	39	3	17	A	53	155	6	13	29	53.3	296.8	
9-Mar-08	57	55	72	11	36	54	7	27	70	4	105	4	3	24	44	70	1	A	1	82	2	107	1	38	38.1	106.6	
10-Mar-08	54	49	3	3	24	23	52	80	30	28	14	5	46	3	36	14	A	2	2	3	1	3	37	1	22.4	80.2	
11-Mar-08	73	140	1	34	57	16	57	C	C	C	18	15	3	2	2	3	2	2	2	2	2	2	3	3	21.0	140.2	
12-Mar-08	3	2	A	4	2	3	3	3	4	11	6	2	4	13	7	2	2	3	5	14	7	10	2	4.9	14.2		
13-Mar-08	1	A	2	2	3	7	14	104	51	9	4	3	4	12	5	2	1	1	1	1	1	2	1	67	13.0	104.4	
14-Mar-08	A	2	2	8	20	47	77	91	4	2	3	2	19	26	2	2	3	1	1	2	2	2	2	A	14.6	91.0	
15-Mar-08	2	2	2	2	5	2	6	7	30	13	26	27	6	3	2	1	2	1	11	55	123	A	89	18.1	123.2		
16-Mar-08	69	52	5	82	142	30	26	40	4	3	3	2	2	2	3	24	7	3	18	67	23	A	4	1	26.6	142.2	
17-Mar-08	25	4	32	3	37	4	19	37	41	10	6	4	3	5	5	2	1	3	7	5	A	2	27	10	12.8	40.7	
18-Mar-08	2	2	3	68	3	4	54	127	5	46	20	29	3	12	37	4	3	1	2	A	3	3	3	3	19.0	127.2	
19-Mar-08	43	4	3	2	3	3	4	8	77	39	19	5	5	6	7	19	2	1	A	1	1	1	2	1	11.2	76.8	
20-Mar-08	2	20	29	24	38	88	82	45	32	38	4	4	4	3	2	1	1	A	1	1	1	1	1	4	18.7	87.7	
21-Mar-08	4	81	10	34	110	177	38	14	13	4	2	2	1	1	2	53	A	4	1	2	3	2	2	3	24.4	176.6	
22-Mar-08	41	25	12	12	11	28	33	66	25	3	7	41	3	2	1	A	2	1	23	17	4	49	17	1	18.5	66.3	
23-Mar-08	24	22	71	98	5	19	7	50	3	70	12	4	27	2	A	14	1	50	28	101	1	44	1	34	29.9	101.4	
24-Mar-08	1	2	56	29	2	38	15	32	3	3	2	2	3	A	1	1	1	1	1	1	1	1	1	1	8.6	55.8	
25-Mar-08	1	1	1	1	68	44	28	19	5	3	2	2	2	A	2	3	2	36	2	3	10	129	66	1	1	18.7	128.5
26-Mar-08	1	158	47	1	26	108	73	35	44	2	1	A	9	20	12	11	1	2	2	14	11	3	2	3	25.5	157.9	
27-Mar-08	5	23	15	35	21	35	15	22	85	34	A	3	1	1	2	49	12	2	1	1	1	2	1	1	18.5	84.9	
28-Mar-08	1	27	1	94	15	27	56	3	2	A	2	3	11	3	2	C	C	C	C	C	3	3	0	14.0	93.6		
29-Mar-08	1	2	A	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1.5	2.4		
30-Mar-08	1	A	1	1	1	2	1	1	1	1	1	2	2	1	1	2	4	3	2	2	1	2	1	1	1.6	3.7	
31-Mar-08	A	2	1	6	8	5	9	3	3	5	7	16	3	6	17	6	5	7	2	2	1	1	2	4	5.3	17.1	

Hourly Avg 17.5 29.9 17.9 21.0 24.2 26.8 35.7 32.8 22.6 14.4 12.3 8.5 7.2 6.2 7.9 14.3 7.2 11.1 9.8 20.7 16.9 21.3 8.0 18.7

Hourly Max 72.9 157.9 103.5 97.9 142.2 176.6 296.8 127.2 92.0 69.7 104.8 45.3 45.8 26.4 44.4 69.8 68.9 100.7 100.9 101.4 154.6 123.2 60.6 100.8



Station: Crescent Heights
Station Owner: PAS

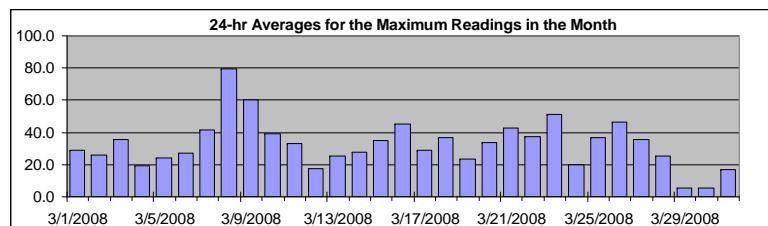
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	329.5 ppb	8-Mar 6:00 7:00
Maximum 24-hr Value:	79.7 ppb	8-Mar



Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S 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-hour Average	Daily Maximum
1-Mar-08	8 1:00	7	A	7	44	11	64	57	5	5	75	11	14	8	20	36	32	119	19	15	15	8	23	61	28.7	119.1	
2-Mar-08	10 1:00	A	34	25	11	6	6	5	6	7	6	8	10	11	11	11	105	8	14	98	11	103	33	51	25.7	105.3	
3-Mar-08	A 1:00	35	11	5	9	6	14	14	14	9	54	56	22	9	10	102	50	43	144	111	28	21	10	A	35.4	144.5	
4-Mar-08	43 1:00	17	21	15	13	8	8	21	13	7	13	15	7	27	23	16	9	12	29	33	47	39	A	11	19.4	46.6	
5-Mar-08	6 1:00	7	33	17	53	23	14	21	19	10	14	12	9	8	9	13	12	29	84	90	58	A	10	7	24.1	89.7	
6-Mar-08	8 1:00	7	5	5	6	5	6	9	8	7	6	4	3	4	4	7	19	129	15	13	A	116	72	163	27.0	162.9	
7-Mar-08	61 1:00	90	4	44	40	9	113	52	81	13	13	21	17	10	13	7	7	16	36	A	58	77	105	75	41.8	113.3	
8-Mar-08	73 1:00	117	137	85	74	79	330	105	115	73	29	10	12	6	8	72	9	54	A	98	204	37	42	65	79.7	329.5	
9-Mar-08	92 1:00	91	97	34	70	85	25	48	99	8	127	6	6	47	66	105	4	A	13	120	14	154	11	57	59.9	154.2	
10-Mar-08	90 1:00	70	6	10	48	47	78	110	56	35	29	11	70	6	82	32	A	10	13	18	7	12	50	6	39.0	110.0	
11-Mar-08	100 1:00	151	4	60	87	35	110	C	C	C	35	23	6	6	6	8	4	7	8	8	8	6	14	16	33.4	150.7	
12-Mar-08	15 1:00	4	A	16	12	9	13	14	13	32	21	5	8	24	13	8	6	8	18	37	37	35	28	29	17.7	37.4	
13-Mar-08	10 1:00	A	8	13	17	25	38	149	91	21	11	8	10	28	12	5	4	4	6	6	5	3	6	102	25.3	149.0	
14-Mar-08	A 1:00	16	13	37	47	86	116	130	13	6	6	7	42	46	8	7	16	6	3	2	2	2	5	A	28.0	130.0	
15-Mar-08	7 1:00	6	5	9	8	23	20	21	19	55	28	45	50	17	13	6	4	12	11	44	98	177	A	127	35.1	177.2	
16-Mar-08	103 1:00	82	21	151	180	56	48	59	13	9	8	4	3	3	7	43	15	10	32	98	52	A	27	21	45.4	179.8	
17-Mar-08	52 1:00	28	41	5	51	16	41	69	66	20	14	12	5	19	10	3	6	26	48	21	A	18	59	33	28.8	69.1	
18-Mar-08	14 1:00	18	25	98	24	26	79	163	14	63	37	45	6	27	71	7	11	11	19	A	31	23	24	9	36.8	162.7	
19-Mar-08	73 1:00	16	15	9	8	21	18	25	121	63	29	14	14	15	17	38	11	7	A	11	6	4	8	4	23.7	120.9	
20-Mar-08	25 1:00	45	58	52	61	118	110	70	55	59	11	12	10	6	8	5	3	A	9	6	5	5	23	16	33.6	118.3	
21-Mar-08	19 1:00	103	34	64	154	209	64	33	27	10	4	4	3	4	6	84	A	23	8	34	23	23	13	33	42.5	208.7	
22-Mar-08	76 1:00	57	33	34	33	50	57	93	44	5	14	67	7	8	3	A	9	7	59	36	35	86	43	8	37.5	92.5	
23-Mar-08	40 1:00	38	108	160	23	41	31	80	6	125	46	13	43	3	A	24	4	77	55	133	4	67	2	54	51.2	160.0	
24-Mar-08	3 1:00	3	96	55	10	61	36	62	9	9	11	12	11	A	8	5	3	3	15	8	9	8	9	14	19.9	95.8	
25-Mar-08	10 1:00	14	12	13	101	76	62	44	15	10	7	6	A	7	15	8	70	7	25	32	172	113	16	12	36.8	172.5	
26-Mar-08	8 1:00	179	81	12	61	150	106	69	64	6	4	A	22	38	23	32	4	4	18	48	53	28	31	27	46.4	179.5	
27-Mar-08	34 1:00	56	47	65	49	56	37	40	116	55	A	9	4	3	7	86	36	8	7	5	11	7	6	79	35.8	116.3	
28-Mar-08	5 1:00	47	5	126	33	51	83	12	9	A	9	8	20	8	6	C	C	C	C	6	9	17	5	25.5	126.0		
29-Mar-08	6 1:00	11	A	8	5	3	7	6	4	4	3	3	4	5	5	5	2	3	5	5	10	8	7	5	5.4	11.0	
30-Mar-08	4 1:00	A	8	7	5	4	4	3	3	4	4	4	5	3	4	7	9	9	9	10	7	6	5	4	5.6	9.7	
31-Mar-08	A 1:00	8	5	18	20	17	22	11	5	9	14	29	7	12	36	14	11	26	13	28	19	12	15	40	16.9	40.4	

Hourly Avg 35.5 47.2 34.6 40.6 43.8 45.5 56.6 53.2 37.5 25.5 22.7 16.2 14.9 13.9 17.5 27.5 16.9 24.3 26.2 41.7 35.7 41.7 24.6 39.1

Hourly Max 102.9 179.5 137.0 160.0 179.8 208.7 329.5 162.7 120.9 125.1 126.6 67.1 69.5 46.7 82.5 105.1 105.3 129.2 144.5 133.2 204.2 177.2 104.7 162.9

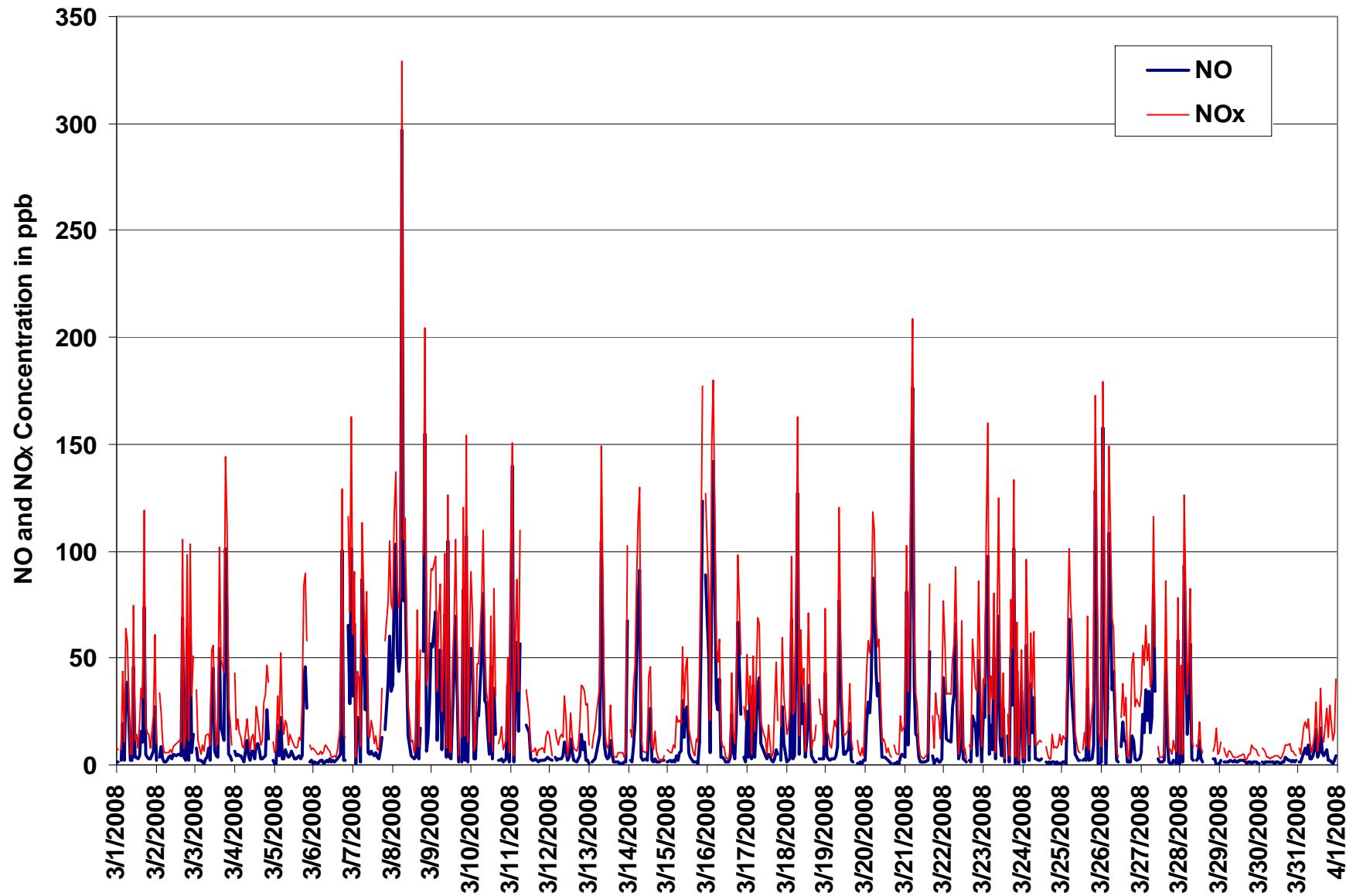


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

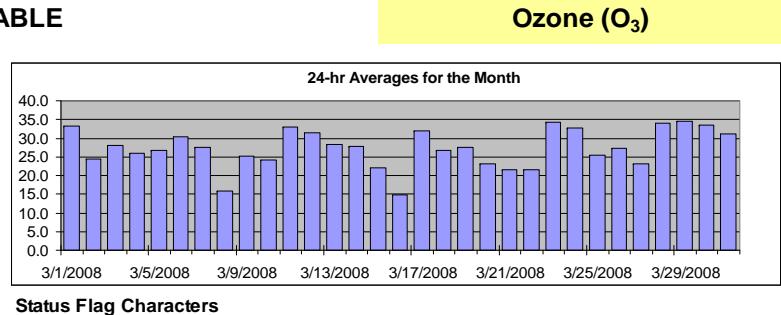
Number of 1-hr Exceedances:	0
Maximum 1-hr Average:	46.2 ppb
Maximum 24-hr Average:	34.6 ppb

20-Mar 15:00 16:00
29-Mar

AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median

45.6 43.6 36.5 29.6 21.3 1.6 0.0
27.3 ppb 29.6 ppb

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Mar-08	28	28	A	28	23	27	29	32	35	37	34	38	38	40	37	37	37	32	31	26	36	42	38	28	33.2	42.4	
2-Mar-08	30	A	14	17	30	29	29	29	31	31	31	30	30	30	28	30	29	27	22	19	21	17	5	5	24.5	31.3	
3-Mar-08	A	14	31	32	28	28	27	27	31	34	37	39	40	39	37	28	19	18	13	6	21	27	41	A	28.0	41.4	
4-Mar-08	25	27	17	14	16	19	23	25	26	32	32	30	32	34	34	37	36	34	23	12	19	23	A	25	26.0	37.0	
5-Mar-08	26	26	24	22	25	26	22	19	22	32	33	34	35	35	38	36	35	27	8	4	15	A	37	33	26.7	37.5	
6-Mar-08	35	38	39	35	31	31	30	27	27	30	31	36	39	41	43	42	39	33	31	30	A	0	9	4	30.4	42.9	
7-Mar-08	17	32	34	31	31	32	26	27	22	27	30	28	40	43	44	43	44	35	27	A	2	8	5	6	27.6	44.2	
8-Mar-08	1	1	0	0	0	0	0	2	5	9	26	35	42	44	44	42	42	35	A	17	0	6	8	5	15.9	43.9	
9-Mar-08	0	1	2	11	13	11	22	22	23	25	26	30	34	39	42	44	46	A	35	28	32	32	29	28	25.1	46.1	
10-Mar-08	27	29	28	24	18	13	7	3	8	18	22	29	31	41	39	40	A	35	28	22	25	23	23	25	24.3	40.5	
11-Mar-08	22	26	29	27	25	23	21	24	26	27	C	36	38	44	44	46	44	39	39	38	39	37	34	31	33.0	46.1	
12-Mar-08	31	32	A	32	32	32	30	29	31	30	34	37	39	41	40	39	40	37	32	22	25	23	14	24	31.5	40.8	
13-Mar-08	30	A	27	21	15	13	9	3	15	27	34	36	38	40	42	42	43	42	36	32	30	29	28	15	28.3	43.5	
14-Mar-08	A	15	19	7	1	7	2	4	22	25	28	40	44	45	45	43	38	42	42	39	37	36	32	A	27.9	45.1	
15-Mar-08	34	30	28	24	23	19	13	18	20	16	17	21	23	26	33	35	36	35	32	22	2	0	A	0	22.0	36.2	
16-Mar-08	0	3	15	6	2	0	2	3	17	24	25	29	30	31	29	26	25	24	19	13	5	A	3	10	14.9	30.9	
17-Mar-08	4	26	32	34	35	31	25	21	25	31	34	36	43	43	44	46	45	39	23	34	A	26	28	29	31.9	45.9	
18-Mar-08	26	22	12	14	10	9	9	10	18	23	29	36	44	44	45	44	41	41	38	A	23	23	27	25	26.7	44.5	
19-Mar-08	20	24	16	17	21	15	18	19	22	21	26	30	34	34	37	36	41	43	A	38	35	31	28	30	27.6	43.2	
20-Mar-08	26	10	5	0	0	0	0	0	4	16	39	40	43	45	45	46	45	A	37	36	32	28	20	12	23.0	46.2	
21-Mar-08	14	0	4	0	0	0	0	5	15	21	31	37	42	43	44	43	A	41	39	28	24	23	27	15	21.6	44.0	
22-Mar-08	18	8	7	0	0	0	0	1	13	27	30	33	38	41	43	A	42	41	38	25	19	18	24	32	21.6	43.0	
23-Mar-08	33	33	30	30	25	21	22	25	34	39	41	40	42	41	A	42	42	40	38	37	35	34	33	32	34.4	42.4	
24-Mar-08	32	31	26	25	24	25	27	34	31	22	32	38	39	A	41	41	41	40	37	35	36	34	32	29	32.8	40.8	
25-Mar-08	26	22	20	19	13	8	8	10	24	31	35	39	A	41	40	41	36	41	33	25	19	17	20	25.5	40.9		
26-Mar-08	21	23	19	26	22	20	9	10	22	33	38	A	43	44	45	45	46	46	37	25	15	18	13	8	27.3	45.9	
27-Mar-08	7	3	1	0	0	1	2	5	8	13	A	32	42	45	41	39	40	42	44	43	40	37	31	29	27	23.1	45.3
28-Mar-08	30	26	31	33	23	16	18	21	30	A	38	40	42	44	45	46	46	46	43	33	38	34	30	32	34.1	45.8	
29-Mar-08	29	27	A	25	29	34	33	36	36	37	36	38	39	40	42	44	43	40	37	31	29	27	28	34.6	43.7		
30-Mar-08	28	A	23	26	30	31	30	31	31	35	36	38	40	41	40	37	37	34	34	34	33	35	31	33.5	40.5		
31-Mar-08	A	36	36	29	27	26	32	32	34	33	C	C	A	36	36	36	37	35	34	24	23	28	28	22	31.2	37.0	
Hourly Avg	22.1	21.2	20.4	19.7	18.4	17.7	16.9	17.8	22.8	26.8	31.6	34.5	37.9	39.7	40.3	39.9	39.2	36.9	32.0	26.9	24.6	24.7	24.3	21.3			
Hourly Max	34.7	37.9	38.8	35.2	34.5	33.5	32.9	35.6	36.3	39.1	41.3	40.4	44.3	45.3	45.1	46.2	46.1	45.9	42.7	40.3	38.8	42.4	41.4	34.8			



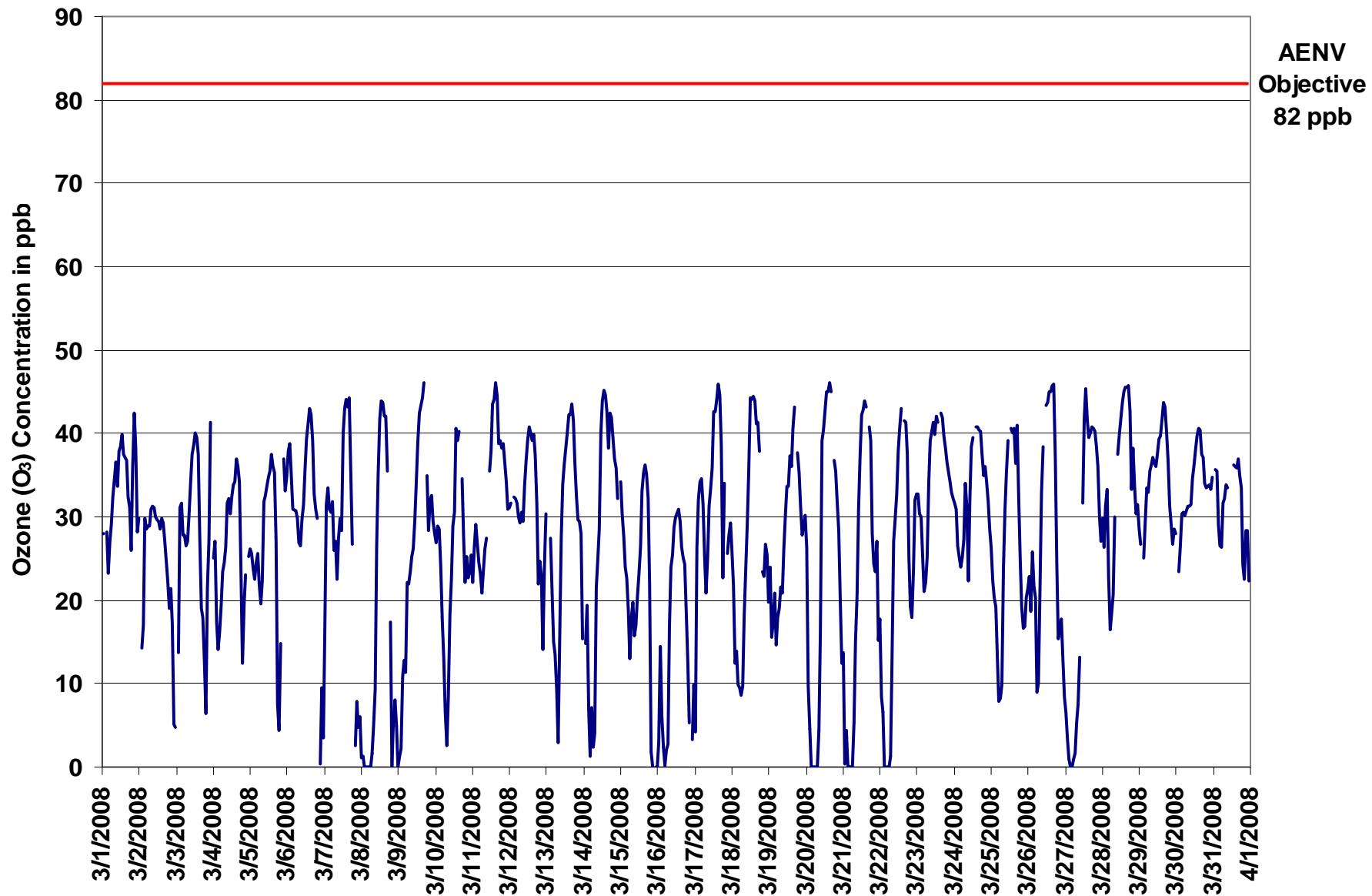


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

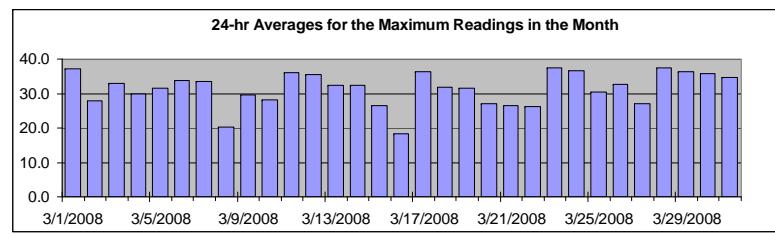
Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	49.6 ppb	20-Mar 15:00 16:00
Maximum 24-hr Value:	37.5 ppb	28-Mar

AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	48.1 46.2 40.0 33.1 26.3 7.0 0.0	31.4 ppb	33.1 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Mar-08	31	30	A	31	29	31	32	35	36	38	38	44	43	42	41	41	40	37	35	31	45	44	43	40	37.2	45.0	
2-Mar-08	33	A	23	27	32	30	30	30	33	33	33	32	32	31	31	31	31	29	25	24	25	23	10	13	27.9	33.3	
3-Mar-08	A	26	33	33	30	29	28	30	33	37	40	41	42	41	41	36	29	24	21	14	29	43	44	A	33.0	44.4	
4-Mar-08	30	31	24	17	19	21	28	28	31	34	34	32	34	36	37	40	39	37	34	21	24	29	A	27	29.9	39.8	
5-Mar-08	27	27	26	26	32	32	27	24	28	34	36	38	37	39	39	40	39	36	18	16	29	A	39	37	31.6	40.1	
6-Mar-08	38	40	40	39	32	32	32	30	28	32	33	38	42	43	44	44	43	38	34	33	A	7	22	12	33.9	44.4	
7-Mar-08	31	35	35	33	34	34	31	30	26	29	34	33	45	47	47	45	47	41	34	A	6	29	21	21	33.4	47.3	
8-Mar-08	10	6	0	0	0	0	0	6	8	18	36	42	44	45	45	46	45	43	A	33	2	11	15	12	20.2	45.6	
9-Mar-08	1	7	11	17	18	23	26	25	26	29	33	39	45	45	49	48	A	40	35	40	39	32	31	29.7	48.6		
10-Mar-08	32	32	31	27	24	17	14	6	14	23	26	31	35	45	42	44	A	37	34	25	27	25	28	28.2	45.0		
11-Mar-08	27	29	31	29	29	27	26	28	28	30	C	38	42	47	45	48	47	42	41	40	41	40	39	36.0	48.5		
12-Mar-08	33	33	A	34	34	33	32	32	34	37	39	42	43	41	42	43	40	36	28	38	30	23	38	35.5	43.2		
13-Mar-08	35	A	29	27	19	20	17	10	21	36	37	39	42	44	44	44	45	44	39	36	32	31	32	23	32.4	44.6	
14-Mar-08	A	18	21	16	12	13	7	21	23	30	34	47	48	48	48	45	43	44	44	41	38	37	35	A	32.4	48.1	
15-Mar-08	36	33	30	27	28	26	18	22	24	26	26	23	25	30	36	37	38	38	36	35	14	1	A	0	26.4	38.0	
16-Mar-08	2	9	18	13	8	4	7	9	23	26	28	30	31	32	30	30	27	27	23	18	10	A	7	13	18.4	32.1	
17-Mar-08	11	31	34	37	36	34	33	28	31	34	36	39	44	46	47	47	47	47	47	35	39	A	32	35	33	36.4	47.0
18-Mar-08	31	26	21	19	13	16	15	16	22	29	31	43	48	47	47	48	46	45	46	A	30	29	33	31	31.8	48.4	
19-Mar-08	25	27	20	21	23	21	24	26	28	26	29	34	36	37	39	39	39	43	46	A	43	40	33	30	31.4	46.1	
20-Mar-08	32	19	12	1	0	0	0	2	9	39	44	42	46	46	48	50	47	A	38	38	35	31	26	16	27.0	49.6	
21-Mar-08	17	9	13	2	0	0	1	11	19	26	38	39	44	45	46	46	46	A	44	42	40	36	32	31	26.3	45.6	
22-Mar-08	23	13	11	7	3	0	2	6	26	29	34	36	40	43	45	A	44	43	43	38	28	24	31	26.3	44.9		
23-Mar-08	34	34	34	32	32	27	27	32	40	42	43	42	45	43	A	44	44	42	41	40	39	36	34	33	37.4	45.1	
24-Mar-08	33	32	35	31	30	32	32	41	41	29	35	42	42	A	42	43	42	42	40	38	41	37	34	33	36.7	42.8	
25-Mar-08	29	26	25	22	21	16	17	19	29	34	38	41	A	43	44	44	41	44	42	33	30	21	21	25	30.5	43.9	
26-Mar-08	24	28	27	28	28	30	16	17	31	36	42	A	45	45	46	47	47	48	47	47	34	33	23	18	32.8	47.6	
27-Mar-08	17	10	4	5	0	4	3	9	13	15	A	36	45	47	46	45	44	44	43	45	43	34	29	27.1	46.8		
28-Mar-08	34	31	39	37	30	21	22	24	36	A	40	42	44	46	47	47	47	47	45	41	40	36	33	33.5	47.3		
29-Mar-08	30	29	A	27	32	35	35	37	38	38	37	40	41	41	41	44	44	45	42	40	35	31	29	32	36.4	44.8	
30-Mar-08	32	A	27	30	31	32	33	33	32	34	37	37	41	41	41	42	42	40	39	38	36	36	35	37	35.7	42.5	
31-Mar-08	A	36	36	34	29	32	34	34	35	35	C	C	A	38	38	38	40	39	37	33	26	33	33	33	34.8	40.4	



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

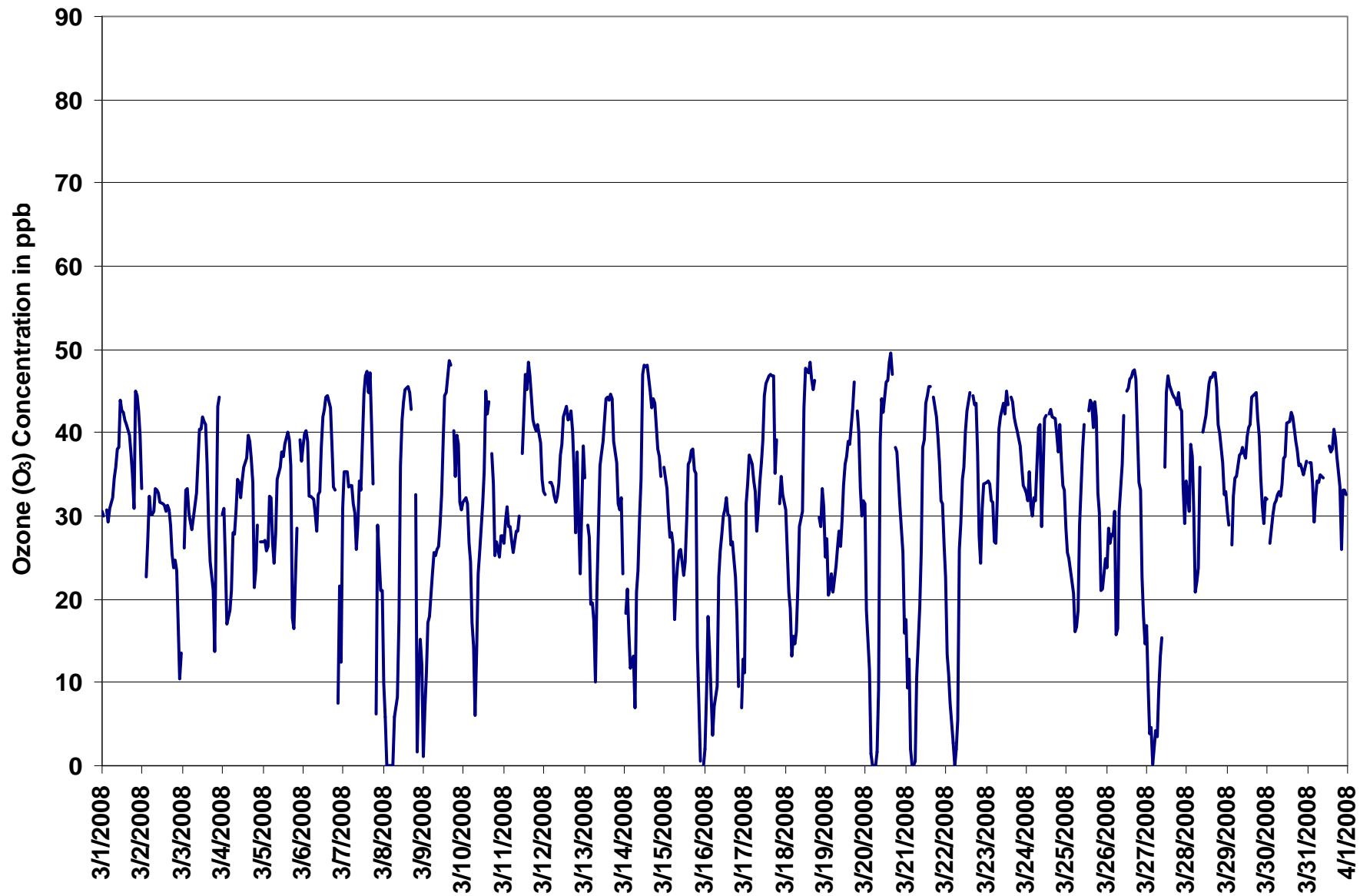
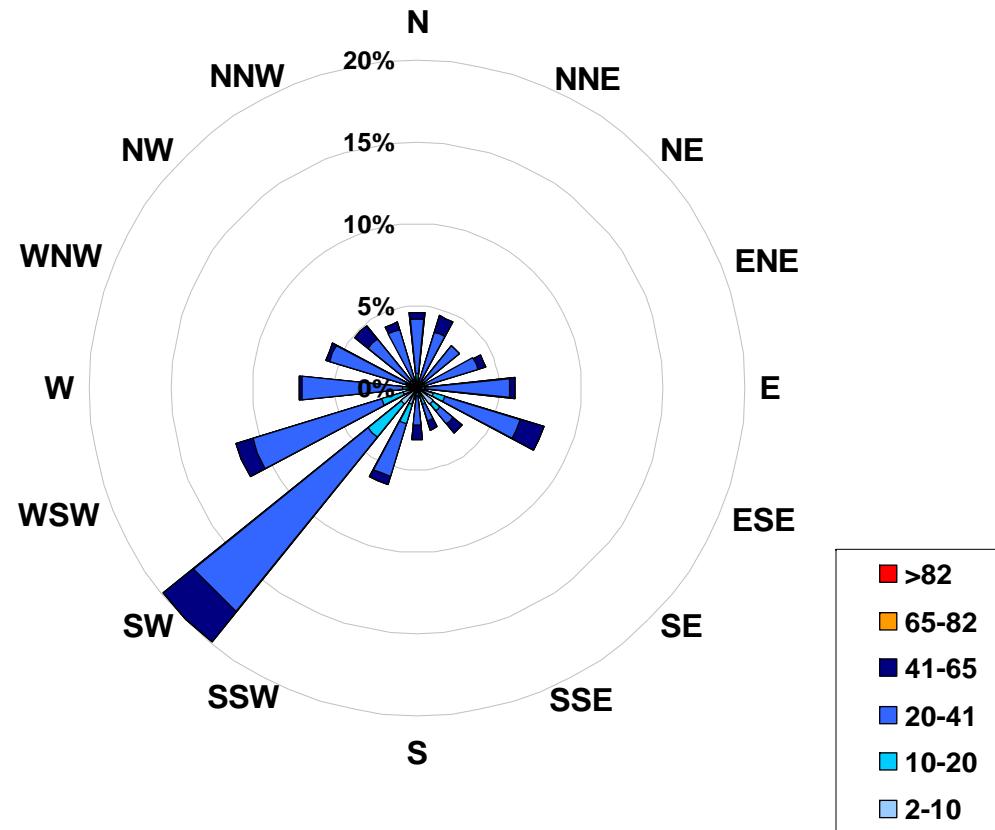


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the
Crescent Heights Site for March 2008



Calms:	0%	Frequency Distribution of O ₃ in ppb		
		Range	Frequency (hrs)	
2.0	<	10	93	
10	to	20	72	
20	to	41	464	
41	to	65	79	
65	to	82	0	
>		82	0	
Total Non-Zero Values			708	



PAS - Crescent Heights Ozone Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

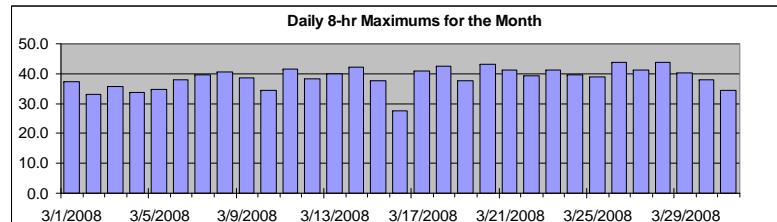
Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	43.9 ppb 26-Mar 17:00 18:00

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)



Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S 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	Daily Maximum	
	Hour End 1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	32	32	32	31	30	29	28	28	29	30	31	32	34	35	36	37	37	37	36	35	35	35	35	35	34	37.2	
2-Mar-08	33	33	31	29	29	27	25	25	25	26	28	30	30	30	30	30	30	29	28	27	26	24	21	18		33.1	
3-Mar-08	17	15	16	18	19	20	23	27	27	30	30	31	33	34	36	36	34	32	29	25	23	21	22	21			35.7
4-Mar-08	22	23	24	25	24	23	20	21	21	22	23	25	28	29	31	32	33	34	33	30	29	27	26	25			33.8
5-Mar-08	23	22	22	24	24	25	24	24	23	24	25	27	28	29	31	33	35	34	31	27	25	23	23	23			34.6
6-Mar-08	23	24	29	33	35	35	34	33	32	31	30	30	31	33	34	36	38	38	38	37	37	31	26	21			38.1
7-Mar-08	18	17	18	18	20	23	26	28	29	29	28	28	29	31	33	35	38	38	38	39	34	29	23	18			39.5
8-Mar-08	12	7	3	3	3	2	1	1	1	2	5	10	15	20	26	31	36	39	41	38	32	27	22	16			40.6
9-Mar-08	10	5	5	4	6	6	8	10	13	16	19	22	24	28	30	33	36	37	39	39	38	37	35	33			38.7
10-Mar-08	30	30	29	29	27	25	22	19	16	15	14	15	16	20	24	29	31	34	35	34	33	30	28	26			34.5
11-Mar-08	25	24	25	25	25	25	25	25	25	25	26	28	31	34	37	40	41	41	42	42	41	40					41.6
12-Mar-08	36	35	35	34	33	32	31	31	31	31	32	33	34	35	36	37	38	38	36	34	32	29	27				38.3
13-Mar-08	26	24	24	24	22	21	20	17	15	16	17	19	22	25	29	34	38	40	40	40	39	37	35	32			40.1
14-Mar-08	30	27	24	21	16	13	10	8	10	11	12	16	22	26	32	36	38	41	42	42	41	40	39	38			42.3
15-Mar-08	38	36	34	32	30	27	24	24	22	20	19	18	18	19	22	24	26	28	30	30	28	24	23	18			37.5
16-Mar-08	13	8	6	4	4	4	4	4	6	9	10	13	16	20	24	26	28	28	27	25	22	20	17	14			27.6
17-Mar-08	11	12	13	16	21	22	25	26	29	29	30	30	31	32	35	38	40	41	40	39	37	34	32	30			41.0
18-Mar-08	29	27	25	22	21	19	16	14	13	13	15	18	22	27	31	35	38	40	42	42	39	36	34	31			42.5
19-Mar-08	28	26	23	22	22	21	19	19	19	18	20	21	23	25	28	30	32	35	36	37	37	36	35	35			37.7
20-Mar-08	33	28	25	21	16	12	9	5	2	3	7	13	18	23	29	35	40	43	43	42	41	38	35	30			43.3
21-Mar-08	26	22	18	14	10	6	4	3	3	6	9	14	19	24	30	34	37	40	41	40	37	35	32	28			41.3
22-Mar-08	27	23	19	15	12	9	6	4	4	6	9	13	18	23	28	32	36	38	39	38	35	32	29	30			39.2
23-Mar-08	29	28	27	27	28	28	28	27	28	28	30	31	33	36	38	40	41	41	41	40	39	38	38	36			41.2
24-Mar-08	35	34	33	31	30	29	28	28	27	28	28	29	31	32	34	35	36	39	40	39	39	38	37	35			39.7
25-Mar-08	34	31	29	27	25	21	18	16	16	17	19	21	22	27	31	36	38	39	39	37	34	31	29	26			39.0
26-Mar-08	24	22	20	20	21	21	20	19	19	20	22	22	25	28	34	39	42	44	44	41	38	35	31	26			43.9
27-Mar-08	21	16	11	8	6	4	3	2	2	4	4	9	15	21	27	31	36	40	40	41	41	40	38	37			41.2
28-Mar-08	35	34	32	32	30	27	26	25	25	25	26	27	29	33	37	41	43	43	44	43	42	41	39	38			43.8
29-Mar-08	36	33	32	31	29	29	30	30	31	33	33	35	36	36	37	38	39	40	40	40	39	38	37	35			40.3
30-Mar-08	33	31	29	28	27	28	28	29	29	29	31	32	33	34	35	37	37	38	38	38	37	36	35	35			38.0
31-Mar-08	34	34	34	34	33	32	31	31	31	31	30	N	N	N	N	N	N	N	N	34	33	32	31	29			34.4

Hourly Max 37.5 35.8 34.5 33.7 35.4 34.8 33.9 33.1 32.1 32.8 33.3 34.6 35.7 36.4 37.5 40.5 42.7 43.9 43.8 42.9 42.5 41.2 39.5 38.1



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances: 0
Maximum 1-hr Average: 1.0 ppm 14-Mar 7:00 8:00
Maximum 24-hr Value: 0.3 ppm 8-Mar

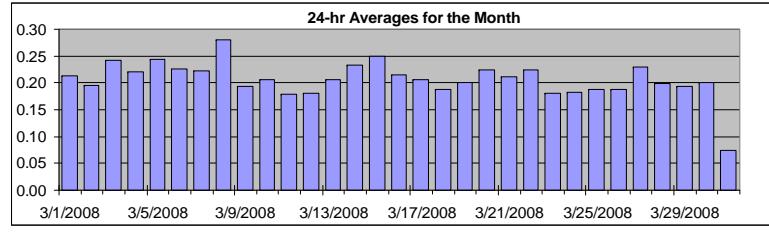
AIC Time:	32 hrs		Operational Time:	710 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.3	0.2	0.2	0.2	0.1	0.0	0.2 ppm	0.2 ppm

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 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	24:00			
1-Mar-08	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.21	0.27	
2-Mar-08	0.2	A	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.28	
3-Mar-08	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	0.3	0.4	0.5	0.5	0.3	0.3	0.2	A	0.24	0.47
4-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	A	0.22	0.33	
5-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.4	A	0.2	0.2	0.24	0.51	
6-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	A	0.4	0.3	0.4	0.23	0.38
7-Mar-08	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.4	0.3	0.4	0.3	0.22	0.40
8-Mar-08	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	A	0.4	0.6	0.3	0.3	0.28	0.59	
9-Mar-08	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.19	0.42	
10-Mar-08	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.21	0.40	
11-Mar-08	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.21	
12-Mar-08	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.25	
13-Mar-08	0.1	A	0.2	0.2	0.3	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.21	0.48	
14-Mar-08	A	0.2	0.1	0.2	0.2	0.2	0.6	1.0	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.23	1.02
15-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.7	A	0.4	0.25	0.72
16-Mar-08	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.22	0.29
17-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.21	0.33
18-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.19	0.24
19-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.20	0.24	
20-Mar-08	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.22	0.53	
21-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.21	0.28	
22-Mar-08	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.22	0.35	
23-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.1	0.2	0.2	0.2	0.18	0.19	
24-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.18	0.22	
25-Mar-08	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	0.19	0.30	
26-Mar-08	0.1	0.1	0.2	0.1	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	0.19	0.31	
27-Mar-08	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.23	0.45	
28-Mar-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.20	0.26	
29-Mar-08	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	A	0.2	0.2	0.2	0.2	0.19	0.20	
30-Mar-08	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	A	0.2	0.2	0.2	0.2	0.20	0.23	
31-Mar-08	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	A	0.0	0.0	0.0	0.0	0.08	0.21	
	Hourly Avg	0.20	0.19	0.19	0.19	0.20	0.21	0.25	0.28	0.22	0.20	0.19	0.18	0.18	0.18	0.18	0.18	0.19	0.20	0.23	0.24	0.24	0.22	0.21	0.20			
	Hourly Max	0.42	0.35	0.39	0.39	0.33	0.34	0.61	1.02	0.40	0.35	0.24	0.25	0.23	0.23	0.26	0.25	0.32	0.38	0.46	0.51	0.59	0.72	0.40	0.36			

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)



Status Flag Characters

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

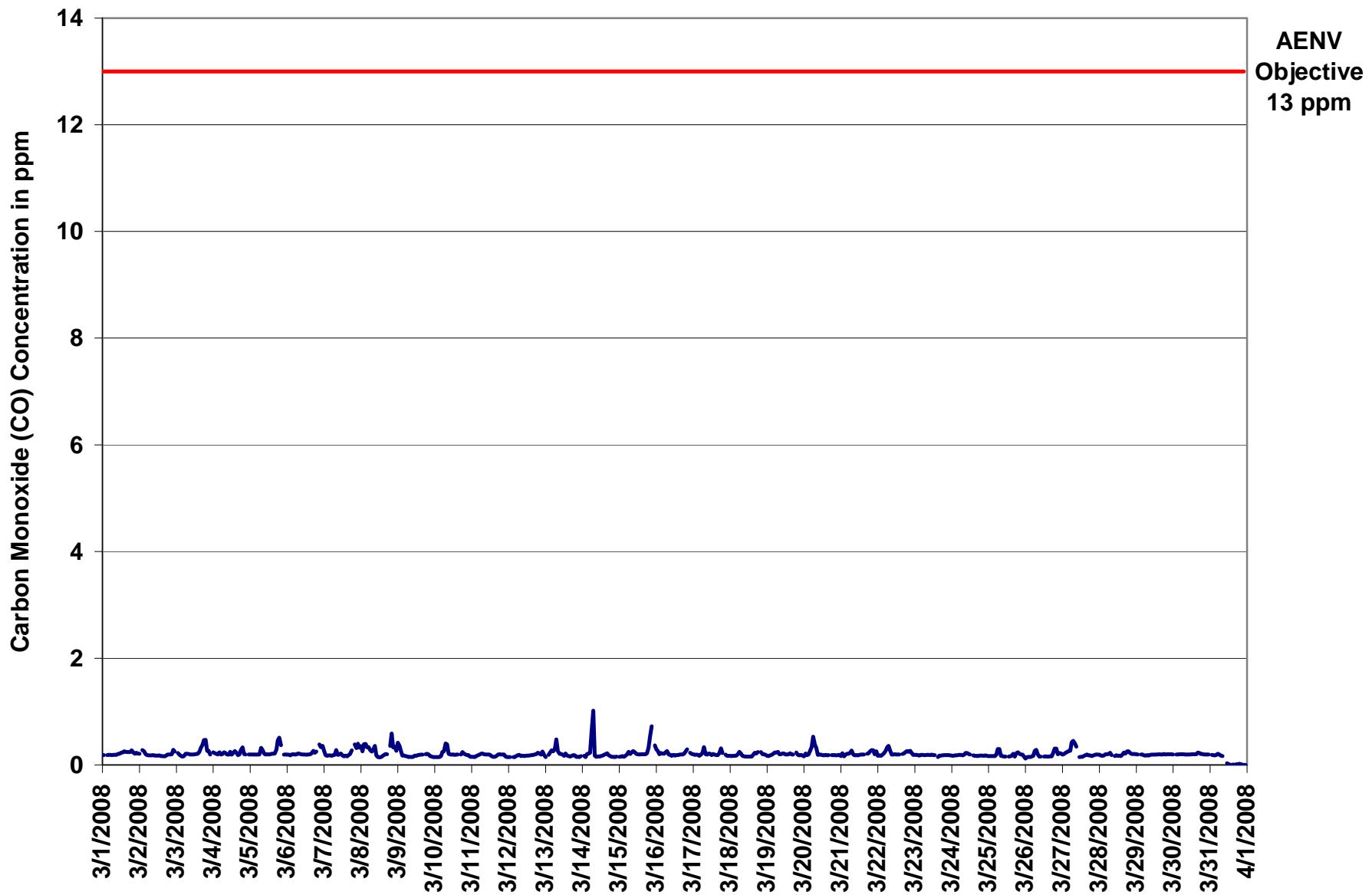


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: March 1, 2008 to April 1, 2008

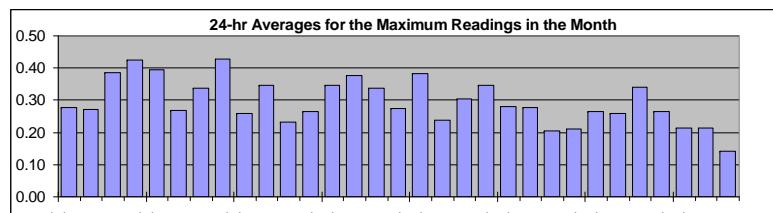
Summary

Maximum 1-hr Value:	2.4	ppm	14-Mar	7:00 8:00
Maximum 24-hr Value:	0.4	ppm	8-Mar	

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99 1.1	95 0.6	75 0.3	50 0.2	25 0.2	5 0.2	1 0.1	Average 0.3 ppm	Median 0.2 ppm

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-hour Average	Daily Maximum	
1-Mar-08	0:00 1:00	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.2	0.2	0.28	0.44	
2-Mar-08	0:00 1:00	0.2	A	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.27	0.51	
3-Mar-08	0:00 1:00	A	0.3	0.2	0.2	0.2	0.2	0.5	0.2	0.5	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.5	0.5	1.4	1.0	0.4	0.4	0.3	0.3	0.39	1.43	
4-Mar-08	0:00 1:00	0.3	0.3	0.3	0.2	0.6	0.2	0.3	0.6	0.4	0.2	0.2	0.9	0.2	1.1	1.0	0.8	0.3	0.3	0.6	0.5	0.3	0.2	A	0.2	0.43	1.07	
5-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.7	0.5	0.5	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.5	0.9	1.0	1.0	A	0.2	0.6	0.39	1.00	
6-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	A	0.5	0.5	0.4	0.27	0.54	
7-Mar-08	0:00 1:00	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	1.0	0.3	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.4	A	0.5	0.5	0.7	0.5	0.34	1.02	
8-Mar-08	0:00 1:00	0.5	0.4	0.5	0.5	0.4	0.5	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.4	0.2	0.6	0.3	A	0.8	0.7	0.6	0.6	0.43	0.84	
9-Mar-08	0:00 1:00	0.6	0.6	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	0.3	0.3	A	0.3	0.3	0.3	0.2	0.2	0.2	0.26	0.59	
10-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	1.1	0.7	0.8	0.6	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.35	1.09	
11-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.23	0.40	
12-Mar-08	0:00 1:00	0.2	0.2	A	0.2	0.2	0.3	0.2	0.3	0.2	0.4	0.3	0.2	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.26	0.40	
13-Mar-08	0:00 1:00	0.2	A	0.3	0.4	0.5	0.4	0.5	0.7	0.4	0.5	0.5	0.3	0.3	0.7	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.35	0.71	
14-Mar-08	0:00 1:00	A	0.3	0.2	0.3	0.3	0.3	1.3	2.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.38	2.44	
15-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.8	0.8	1.1	A	0.5	0.34	1.05	
16-Mar-08	0:00 1:00	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	A	0.3	0.3	0.27	0.40
17-Mar-08	0:00 1:00	0.2	0.2	0.3	0.2	0.2	0.3	0.4	2.3	0.4	0.3	0.6	0.3	0.3	0.2	0.4	0.3	0.3	0.2	0.4	0.5	0.2	A	0.3	0.2	0.38	2.26	
18-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	A	0.3	0.3	0.3	0.2	0.24	0.45		
19-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.5	0.4	0.4	0.4	0.3	0.2	0.4	0.3	0.3	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.30	0.65		
20-Mar-08	0:00 1:00	0.2	0.9	0.2	0.2	0.4	0.5	1.4	0.5	0.5	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.35	1.42		
21-Mar-08	0:00 1:00	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.2	0.6	0.28	0.64		
22-Mar-08	0:00 1:00	0.2	0.3	0.2	0.2	0.3	0.3	0.5	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.28	0.54		
23-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.28	
24-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28		
25-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.2	0.3	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.5	0.4	0.3	0.3	0.3	0.27	0.51		
26-Mar-08	0:00 1:00	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.5	0.4	0.6	0.3	0.3	0.26	0.56	
27-Mar-08	0:00 1:00	0.3	0.3	0.3	0.3	1.1	0.4	0.6	0.9	0.6	0.4	A	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	0.34	1.14	
28-Mar-08	0:00 1:00	0.2	0.2	0.2	0.2	0.3	0.3	0.7	0.2	A	0.3	0.2	0.3	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.72			
29-Mar-08	0:00 1:00	0.3	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.21	0.29			
30-Mar-08	0:00 1:00	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	0.2	0.22	0.35		
31-Mar-08	0:00 1:00	A	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	C	C	0.4	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.14	0.40		



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

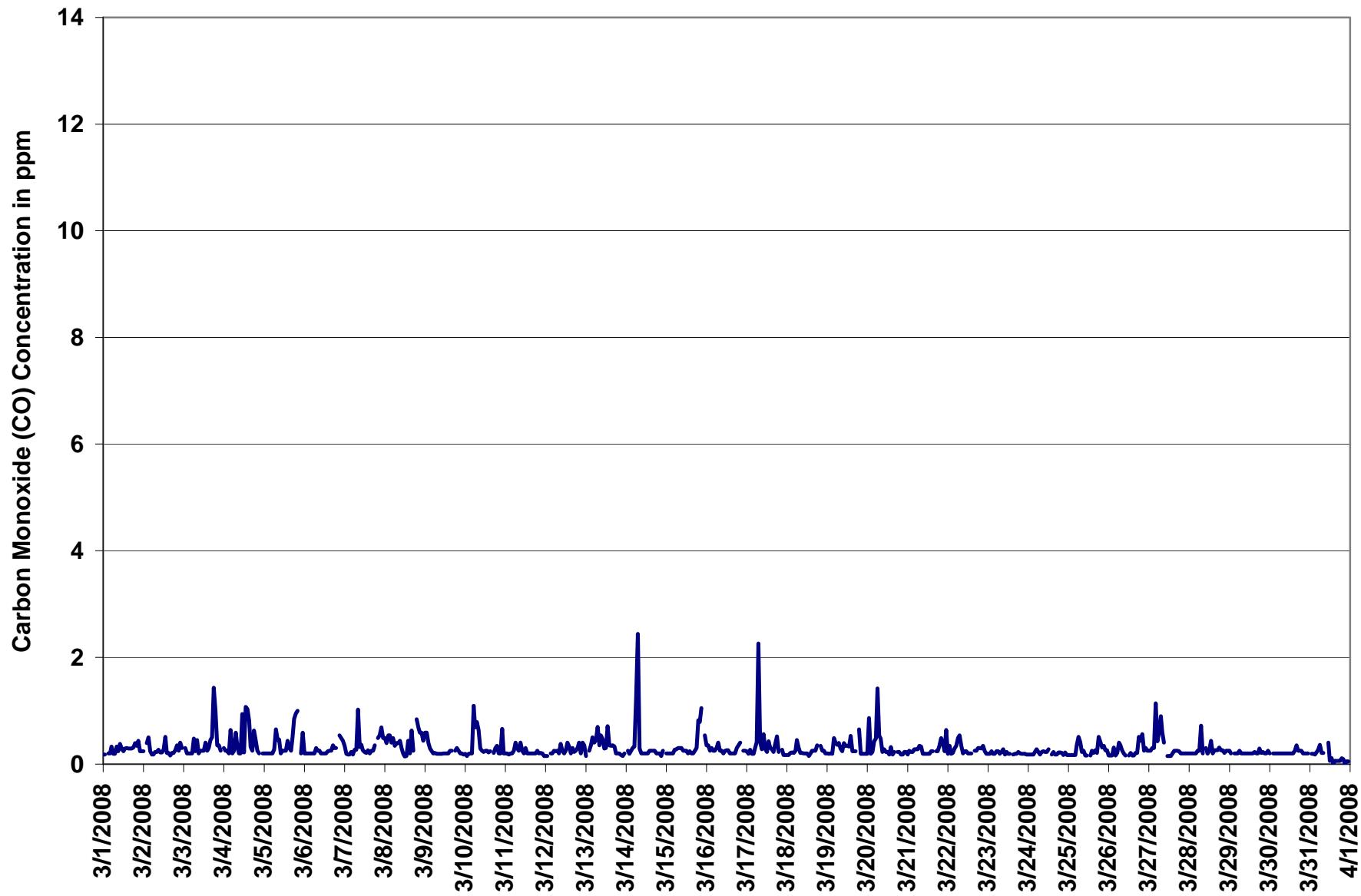
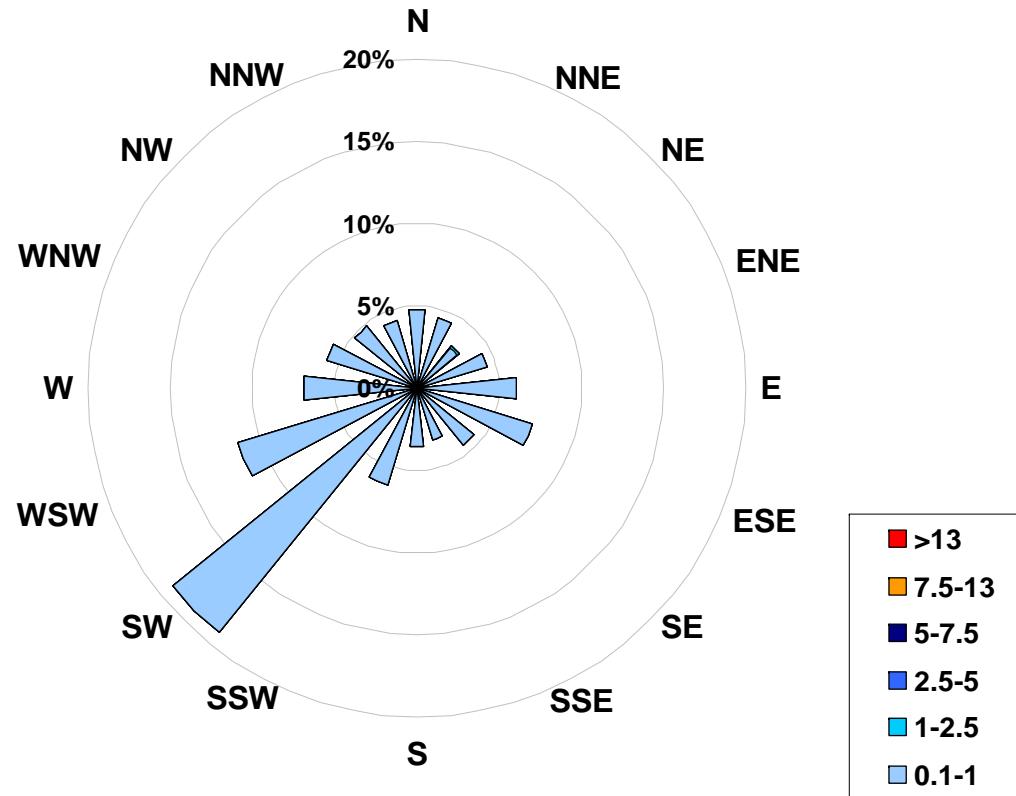


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located
at the Crescent Heights Site for March 2008



Calms:	0%
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Frequency Distribution of CO in ppm			Frequency (hrs)
Range		Frequency (hrs)	
0.1	<	1	709
1	to	2.5	1
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
>	13		0
Total Non-Zero Values			710



PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

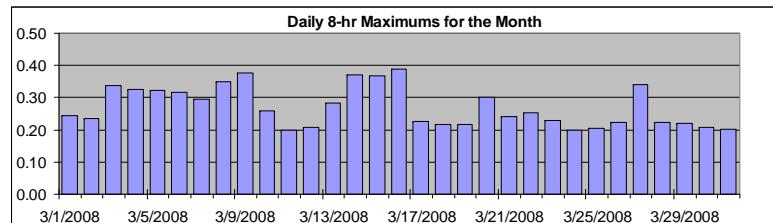
Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.4 ppm
	16-Mar 1:00 2:00

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 100:00 | 101:00 | 102:00 | 103:00 | 104:00 | 105:00 | 106:00 | 107:00 | 108:00 | 109:00 | 110:00 | 111:00 | 112:00 | 113:00 | 114:00 | 115:00 | 116:00 | 117:00 | 118:00 | 119:00 | 120:00 | 121:00 | 122:00 | 123:00 | 124:00 | 125:00 | 126:00 | 127:00 | 128:00 | 129:00 | 130:00 | 131:00 | 132:00 | 133:00 | 134:00 | 135:00 | 136:00 | 137:00 | 138:00 | 139:00 | 140:00 | 141:00 | 142:00 | 143:00 | 144:00 | 145:00 | 146:00 | 147:00 | 148:00 | 149:00 | 150:00 | 151:00 | 152:00 | 153:00 | 154:00 | 155:00 | 156:00 | 157:00 | 158:00 | 159:00 | 160:00 | 161:00 | 162:00 | 163:00 | 164:00 | 165:00 | 166:00 | 167:00 | 168:00 | 169:00 | 170:00 | 171:00 | 172:00 | 173:00 | 174:00 | 175:00 | 176:00 | 177:00 | 178:00 | 179:00 | 180:00 | 181:00 | 182:00 | 183:00 | 184:00 | 185:00 | 186:00 | 187:00 | 188:00 | 189:00 | 190:00 | 191:00 | 192:00 | 193:00 | 194:00 | 195:00 | 196:00 | 197:00 | 198:00 | 199:00 | 200:00 | 201:00 | 202:00 | 203:00 | 204:00 | 205:00 | 206:00 | 207:00 | 208:00 | 209:00 | 210:00 | 211:00 | 212:00 | 213:00 | 214:00 | 215:00 | 216:00 | 217:00 | 218:00 | 219:00 | 220:00 | 221:00 | 222:00 | 223:00 | 224:00 | 225:00 | 226:00 | 227:00 | 228:00 | 229:00 | 230:00 | 231:00 | 232:00 | 233:00 | 234:00 | 235:00 | 236:00 | 237:00 | 238:00 | 239:00 | 240:00 | 241:00 | 242:00 | 243:00 | 244:00 | 245:00 | 246:00 | 247:00 | 248:00 | 249:00 | 250:00 | 251:00 | 252:00 | 253:00 | 254:00 | 255:00 | 256:00 | 257:00 | 258:00 | 259:00 | 260:00 | 261:00 | 262:00 | 263:00 | 264:00 | 265:00 | 266:00 | 267:00 | 268:00 | 269:00 | 270:00 | 271:00 | 272:00 | 273:00 | 274:00 | 275:00 | 276:00 | 277:00 | 278:00 | 279:00 | 280:00 | 281:00 | 282:00 | 283:00 | 284:00 | 285:00 | 286:00 | 287:00 | 288:00 | 289:00 | 290:00 | 291:00 | 292:00 | 293:00 | 294:00 | 295:00 | 296:00 | 297:00 | 298:00 | 299:00 | 300:00 | 301:00 | 302:00 | 303:00 | 304:00 | 305:00 | 306:00 | 307:00 | 308:00 | 309:00 | 310:00 | 311:00 | 312:00 | 313:00 | 314:00 | 315:00 | 316:00 | 317:00 | 318:00 | 319:00 | 320:00 | 321:00 | 322:00 | 323:00 | 324:00 | 325:00 | 326:00 | 327:00 | 328:00 | 329:00 | 330:00 | 331:00 | 332:00 | 333:00 | 334:00 | 335:00 | 336:00 | 337:00 | 338:00 | 339:00 | 340:00 | 341:00 | 342:00 | 343:00 | 344:00 | 345:00 | 346:00 | 347:00 | 348:00 | 349:00 | 350:00 | 351:00 | 352:00 | 353:00 | 354:00 | 355:00 | 356:00 | 357:00 | 358:00 | 359:00 | 360:00 | 361:00 | 362:00 | 363:00 | 364:00 | 365:00 | 366:00 | 367:00 | 368:00 | 369:00 | 370:00 | 371:00 | 372:00 | 373:00 | 374:00 | 375:00 | 376:00 | 377:00 | 378:00 | 379:00 | 380:00 | 381:00 | 382:00 | 383:00 | 384:00 | 385:00 | 386:00 | 387:00 | 388:00 | 389:00 | 390:00 | 391:00 | 392:00 | 393:00 | 394:00 | 395:00 | 396:00 | 397:00 | 398:00 | 399:00 | 400:00 | 401:00 | 402:00 | 403:00 | 404:00 | 405:00 | 406:00 | 407:00 | 408:00 | 409:00 | 410:00 | 411:00 | 412:00 | 413:00 | 414:00 | 415:00 | 416:00 | 417:00 | 418:00 | 419:00 | 420:00 | 421:00 | 422:00 | 423:00 | 424:00 | 425:00 | 426:00 | 427:00 | 428:00 | 429:00 | 430:00 | 431:00 | 432:00 | 433:00 | 434:00 | 435:00 | 436:00 | 437:00 | 438:00 | 439:00 | 440:00 | 441:00 | 442:00 | 443:00 | 444:00 | 445:00 | 446:00 | 447:00 | 448:00 | 449:00 | 450:00 | 451:00 | 452:00 | 453:00 | 454:00 | 455:00 | 456:00 | 457:00 | 458:00 | 459:00 | 460:00 | 461:00 | 462:00 | 463:00 | 464:00 | 465:00 | 466:00 | 467:00 | 468:00 | 469:00 | 470:00 | 471:00 | 472:00 | 473:00 | 474:00 | 475:00 | 476:00 | 477:00 | 478:00 | 479:00 | 480:00 | 481:00 | 482:00 | 483:00 | 484:00 | 485:00 | 486:00 | 487:00 | 488:00 | 489:00 | 490:00 | 491:00 | 492:00 | 493:00 | 494:00 | 495:00 | 496:00 | 497:00 | 498:00 | 499:00 | 500:00 | 501:00 | 502:00 | 503:00 | 504:00 | 505:00 | 506:00 | 507:00 | 508:00 | 509:00 | 510:00 | 511:00 | 512:00 | 513:00 | 514:00 | 515:00 | 516:00 | 517:00 | 518:00 | 519:00 | 520:00 | 521:00 | 522:00 | 523:00 | 524:00 | 525:00 | 526:00 | 527:00 | 528:00 | 529:00 | 530:00 | 531:00 | 532:00 | 533:00 | 534:00 | 535:00 | 536:00 | 537:00 | 538:00 | 539:00 | 540:00 | 541:00 | 542:00 | 543:00 | 544:00 | 545:00 | 546:00 | 547:00 | 548:00 | 549:00 | 550:00 | 551:00 | 552:00 | 553:00 | 554:00 | 555:00 | 556:00 | 557:00 | 558:00 | 559:00 | 560:00 | 561:00 | 562:00 | 563:00 | 564:00 | 565:00 | 566:00 | 567:00 | 568:00 | 569:00 | 570:00 | 571:00 | 572:00 | 573:00 | 574:00 | 575:00 | 576:00 | 577:00 | 578:00 | 579:00 | 580:00 | 581:00 | 582:00 | 583:00 | 584:00 | 585:00 | 586:00 | 587:00 | 588:00 | 589:00 | 590:00 | 591:00 | 592:00 | 593:00 | 594:00 | 595:00 | 596:00 | 597:00 | 598:00 | 599:00 | 600:00 | 601:00 | 602:00 | 603:00 | 604:00 | 605:00 | 606:00 | 607:00 | 608:00 | 609:00 | 610:00 | 611:00 | 612:00 | 613:00 | 614:00 | 615:00 | 616:00 | 617:00 | 618:00 | 619:00 | 620:00 | 621:00 | 622:00 | 623:00 | 624:00 | 625:00 | 626:00 | 627:00 | 628:00 | 629:00 | 630:00 | 631:00 | 632:00 | 633:00 | 634:00 | 635:00 | 636:00 | 637:00 | 638:00 | 639:00 | 640:00 | 641:00 | 642:00 | 643:00 | 644:00 | 645:00 | 646:00 | 647:00 | 648:00 | 649:00 | 650:00 | 651:00 | 652:00 | 653:00 | 654:00 | 655:00 | 656:00 | 657:00 | 658:00 | 659:00 | 660:00 | 661:00 | 662:00 | 663:00 | 664:00 | 665:00 | 666:00 | 667:00 | 668:00 | 669:00 | 670:00 | 671:00 | 672:00 | 673:00 | 674:00 | 675:00 | 676:00 | 677:00 | 678:00 | 679:00 | 680:00 | 681:00 | 682:00 | 683:00 | 684:00 | 685:00 | 686:00 | 687:00 | 688:00 | 689:00 | 690:00 | 691:00 | 692:00 | 693:00 | 694:00 | 695:00 | 696:00 | 697:00 | 698:00 | 699:00 | 700:00 | 701:00 | 702:00 | 703:00 | 704:00 | 705:00 | 706:00 | 707:00 | 708:00 | 709:00 | 710:00 | 711:00 | 712:00 | 713:00 | 714:00 | 715:00 | 716:00 | 717:00 | 718:00 | 719:00 | 720:00 | 721:00 | 722:00 | 723:00 | 724:00 | 725:00 | 726:00 | 727:00 | 728:00 | 729:00 | 730:00 | 731:00 | 732:00 | 733:00 | 734:00 | 735:00 | 736:00 | 737:00 | 738:00 | 739:00 | 740:00 | 741:00 | 742:00 | 743:00 | 744:00 | 745:00 | 746:00 | 747:00 | 748:00 | 749:00 | 750:00 | 751:00 | 752:00 | 753:00 | 754:00 | 755:00 | 756:00 | 757:00 | 758:00 | 759:00 | 760:00 | 761:00 | 762:00 | 763:00 | 764:00 | 765:00 | 766:00 | 767:00 | 768:00 | 769:00 | 770:00 | 771:00 | 772:00 | 773:00 | 774:00 | 775:00 | 776:00 | 777:00 | 778:00 | 779:00 | 780:00 | 781:00 | 782:00 | 783:00 | 784:00 | 785:00 | 786:00 | 787:00 | 788:00 | 789:00 | 790:00 | 791:00 | 792:00 | 793:00 | 794:00 | 795:00 | 796:00 | 797:00 | 798:00 | 799:00 | 800:00 | 801:00 | 802:00 | 803:00 | 804:00 | 805:00 | 806:00 | 807:00 | 808:00 | 809:00 | 810:00 | 811:00 | 812:00 | 813:00 | 814:00 | 815:00 | 816:00 | 817:00 | 818:00 | 819:00 | 820:00 | 821:00 | 822:00 | 823:00 | 824:00 | 825:00 | 826:00 | 827:00 | 828:00 | 829:00 | 830:00 | 831:00 | 832:00 | 833:00 | 834:00 | 835:00 | 836:00 | 837:00 | 838:00 | 839:00 | 840:00 | 841:00 | 842:00 | 843:00 | 844:00 | 845:00 | 846:00 | 847:00 | 848:00 | 849:00 | 850:00 | 851:00 | 852:00 | 853:00 | 854:00 | 855:00 | 856:00 | 857:00 | 858:00 | 859:00 | 860:00 | 861:00 | 862:00 | 863:00 | 864:00 | 865:00 | 866:00 |
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PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average:	2.8	ppm	27-Mar	4:00 5:00
Maximum 24-hr Value:	2.3	ppm	8-Mar	

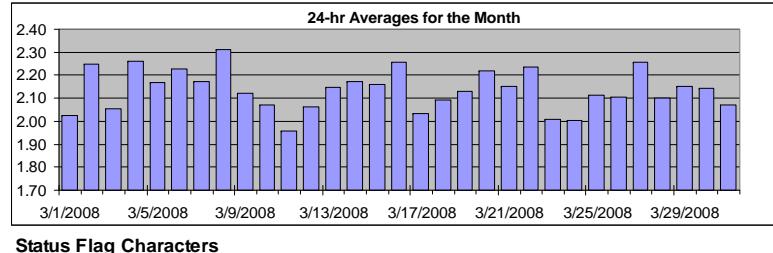
AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.4	2.2	2.1	2.0	2.0	1.9		

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.03	2.10
2-Mar-08	2.1	A	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.25	2.34	
3-Mar-08	A	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	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.0	A	2.05	2.26	
4-Mar-08	2.1	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	A	2.2	2.26	2.38
5-Mar-08	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.4	A	2.1	2.1	2.17	2.38	
6-Mar-08	2.2	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	A	2.3	2.3	2.23	2.45	
7-Mar-08	2.2	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	A	2.5	2.4	2.5	2.6	2.17	2.58	
8-Mar-08	2.7	2.3	2.5	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.4	2.3	2.2	2.3	2.31	2.70	
9-Mar-08	2.5	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.12	2.49	
10-Mar-08	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.07	2.27
11-Mar-08	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.96	2.00	
12-Mar-08	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.5	2.2	2.06	2.52
13-Mar-08	2.1	A	2.1	2.3	2.4	2.3	2.3	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.15	2.37	
14-Mar-08	A	2.2	2.3	2.3	2.3	2.3	2.7	2.7	2.1	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.17	2.71	
15-Mar-08	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5	A	2.4	2.4	2.16	2.49		
16-Mar-08	2.4	2.3	2.2	2.2	2.3	2.3	2.5	2.5	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	A	2.3	2.2	2.26	2.50		
17-Mar-08	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.1	2.0	2.03	2.23			
18-Mar-08	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.0	2.0	2.1	2.09	2.24	
19-Mar-08	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.4	2.1	2.1	2.0	2.1	2.13	2.36	
20-Mar-08	2.1	2.2	2.2	2.4	2.5	2.7	2.7	2.6	2.6	2.6	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.2	2.2	2.22	2.71	
21-Mar-08	2.1	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.2	2.1	2.15	2.33	
22-Mar-08	2.1	2.3	2.3	2.5	2.6	2.7	2.8	2.8	2.8	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.1	2.1	2.1	2.24	2.81	
23-Mar-08	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	2.0	1.9	1.9	1.9	1.9	2.01	2.09	
24-Mar-08	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.1	2.1	2.00	2.12	
25-Mar-08	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.1	2.1	2.1	2.11	2.19	
26-Mar-08	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.1	2.2	2.2	2.10	2.34	
27-Mar-08	2.3	2.3	2.3	2.4	2.8	2.8	2.7	2.6	2.5	2.4	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.1	2.2	2.2	2.26	2.82
28-Mar-08	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.2	2.2	2.10	2.22
29-Mar-08	2.3	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.15	2.31	
30-Mar-08	2.2	A	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.14	2.30
31-Mar-08	A	2.1	2.1	2.1	2.1	2.1	2.1	C	C	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.1	2.0	2.0	2.07	2.15
	Hourly Avg	2.15	2.15	2.17	2.18	2.21	2.21	2.23	2.24	2.18	2.15	2.11	2.10	2.08	2.06	2.05	2.05	2.06	2.07	2.09	2.13	2.16	2.14	2.13	2.16			
	Hourly Max	2.66	2.44	2.53	2.70	2.82	2.79	2.77	2.81	2.56	2.41	2.36	2.34	2.27	2.23	2.25	2.25	2.24	2.32	2.38	2.47	2.49	2.52	2.58				

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)



Status Flag Characters

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

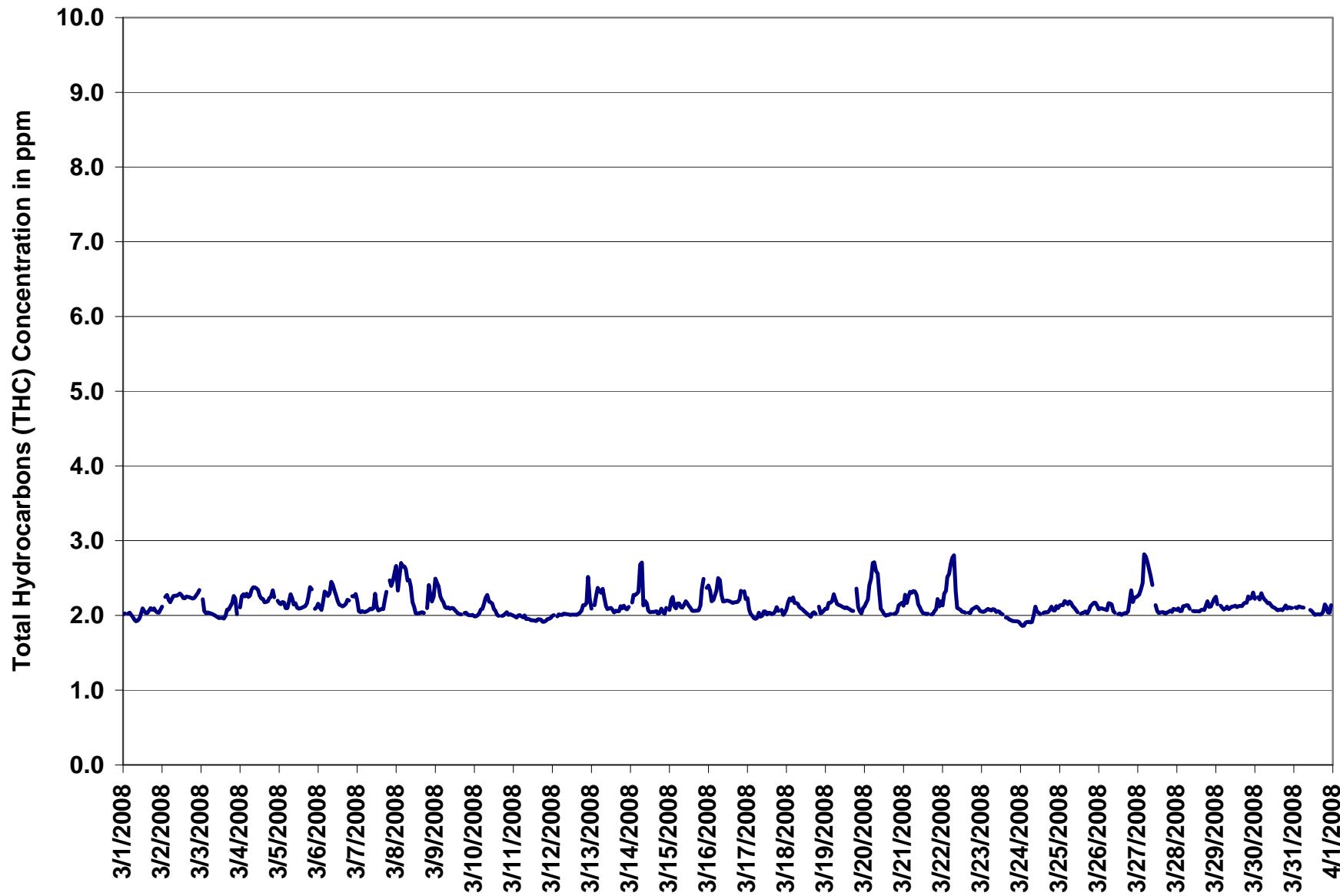


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

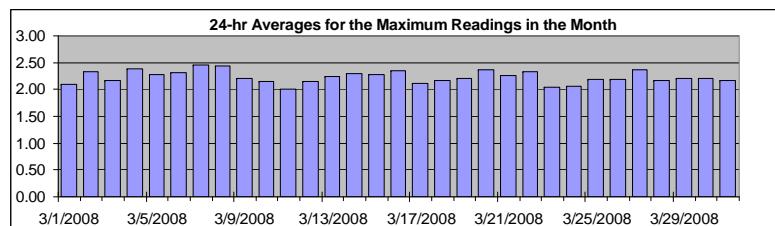
Total Hydrocarbons (THC)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	6.9	ppm	7-Mar	23:00 0:00
Maximum 24-hr Value:	2.5	ppm	7-Mar	

AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	3.0 2.7 2.3 2.2 2.1 2.0 2.0	2.2 ppm	2.2 ppm



Status Flag Characters

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

Day Mountain Standard Time

	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 Start	Hour End																									
	Hour Start	Hour End																									
1-Mar-08	2.1	2.1	A	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.09	2.21
2-Mar-08	2.2	A	2.3	2.3	2.4	2.2	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5		2.33	2.46	
3-Mar-08	A	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.8	2.6	2.4	2.4	2.1	A	2.16	2.83	
4-Mar-08	2.3	2.4	2.4	2.4	2.8	2.4	2.3	2.5	2.5	2.5	2.4	2.6	2.4	2.4	2.3	2.3	2.2	2.3	2.3	2.3	2.5	2.4	A	2.2	2.39	2.77	
5-Mar-08	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.8	2.8	A	2.2	2.28	2.81	
6-Mar-08	2.2	2.2	2.1	2.3	2.5	2.4	2.5	2.4	2.6	2.5	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	A	2.4	2.4	2.4	2.2	2.32	2.57
7-Mar-08	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.2	2.4	2.3	2.2	2.3	2.2	2.2	2.1	2.3	2.4	A	2.8	2.7	2.7	6.9	2.46	6.85	
8-Mar-08	3.0	2.5	2.8	2.8	2.8	2.8	2.6	2.6	2.6	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.4	2.3	2.4	2.4	2.44	2.99	
9-Mar-08	2.8	2.7	2.5	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.20	2.82	
10-Mar-08	2.0	2.0	2.1	2.1	2.1	2.4	2.3	2.4	2.4	2.3	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.15	2.39	
11-Mar-08	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.08	
12-Mar-08	2.0	2.1	A	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.3	2.2	2.3	2.3	2.8	2.6	2.16	2.84	
13-Mar-08	2.2	A	2.2	2.4	2.6	2.4	2.4	2.4	2.4	2.3	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.3	2.2	2.1	2.2	2.23	2.55	
14-Mar-08	A	2.3	2.4	2.4	2.4	2.4	3.5	3.5	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.3	A	2.30	3.52	
15-Mar-08	2.3	2.3	2.6	2.5	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.1	2.3	2.6	2.7	A	2.28	2.68		
16-Mar-08	2.5	2.5	2.3	2.3	2.3	2.4	2.9	2.8	2.5	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.4	A	2.4	2.3	2.36	2.94	
17-Mar-08	2.3	2.2	2.1	2.0	2.0	2.0	2.8	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	A	2.1	2.0	2.1	2.12	2.84	
18-Mar-08	2.1	2.3	2.4	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	A	2.3	2.1	2.1	2.16	2.38		
19-Mar-08	2.1	2.2	2.2	2.2	2.3	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.21	2.56		
20-Mar-08	2.2	2.3	2.3	3.0	3.0	3.1	3.2	2.8	2.9	2.7	2.2	2.1	2.1	2.0	2.0	2.0	2.1	A	2.1	2.1	2.1	2.2	2.2	2.2	2.38	3.18	
21-Mar-08	2.2	2.4	2.3	2.4	2.8	2.4	2.4	2.4	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.25	2.75		
22-Mar-08	2.2	2.5	2.4	2.6	2.6	2.8	2.9	3.2	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.33	3.15	
23-Mar-08	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.05	2.15	
24-Mar-08	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.2	2.2	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.3	2.2	2.2	2.1	2.07	2.31		
25-Mar-08	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.19	2.31	
26-Mar-08	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.3	2.1	2.1	A	2.0	2.1	2.0	2.1	2.1	2.0	2.3	2.7	2.3	2.4	2.3	2.2	2.18	2.67	
27-Mar-08	2.4	2.4	2.4	2.8	3.1	3.0	2.9	2.8	2.7	2.5	A	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.36	3.07		
28-Mar-08	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.1	2.17	2.39		
29-Mar-08	2.4	2.2	A	2.2	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.21	2.40		
30-Mar-08	2.3	A	2.3	2.3	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.20	2.37	
31-Mar-08	A	2.2	2.2	2.2	2.2	2.2	C	C	A	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.1	2.1	2.71			
Hourly Avg	2.25	2.24	2.25	2.29	2.33	2.31	2.37	2.38	2.29	2.23	2.18	2.18	2.13	2.12	2.11	2.10	2.11	2.12	2.19	2.25	2.28	2.22	2.22	2.41			
Hourly Max	2.99	2.65	2.75	2.99	3.07	3.07	3.49	3.52	2.88	2.66	2.43	2.57	2.37	2.33	2.31	2.30	2.30	2.30	2.83	2.81	2.79	2.68	2.84	6.85			

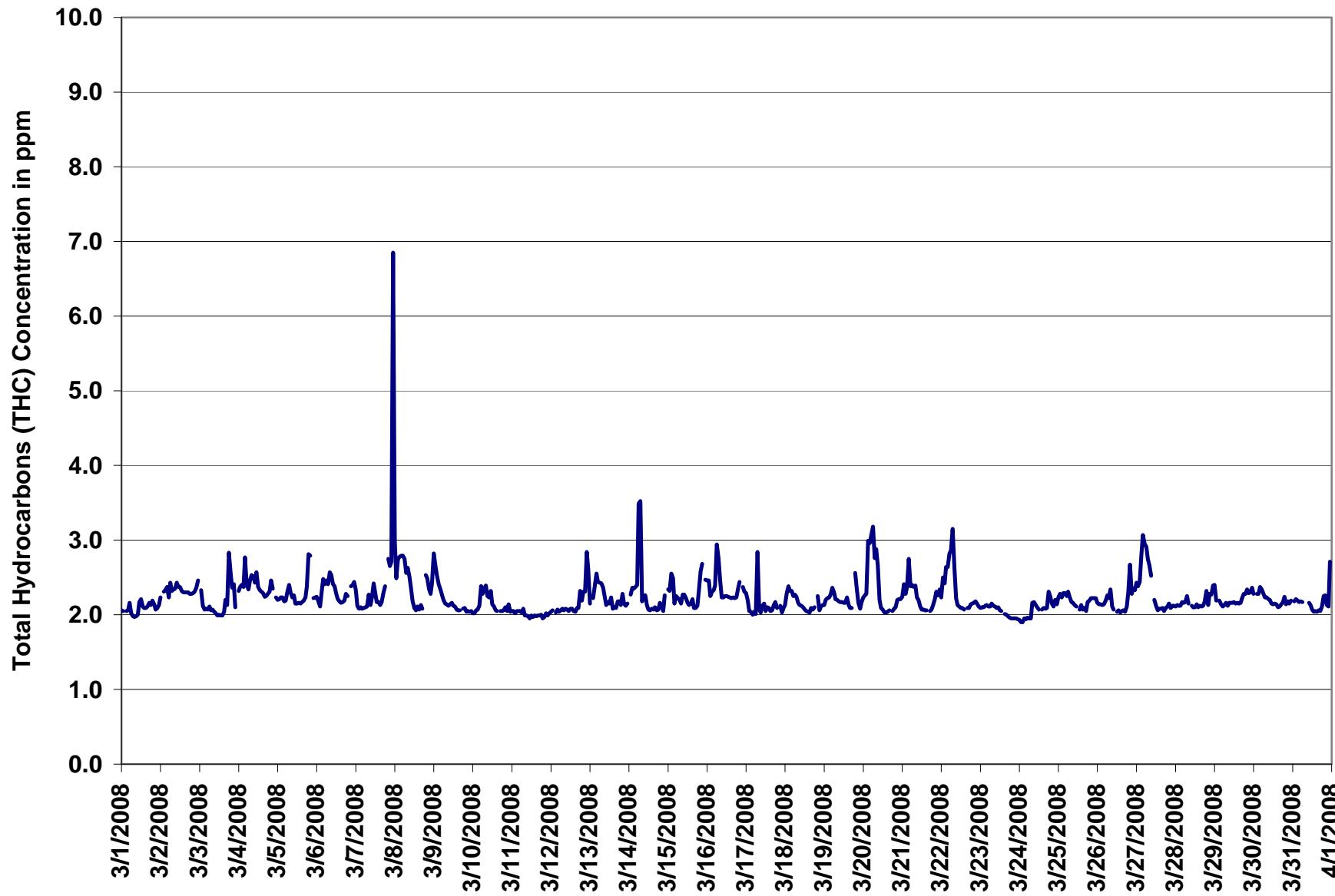
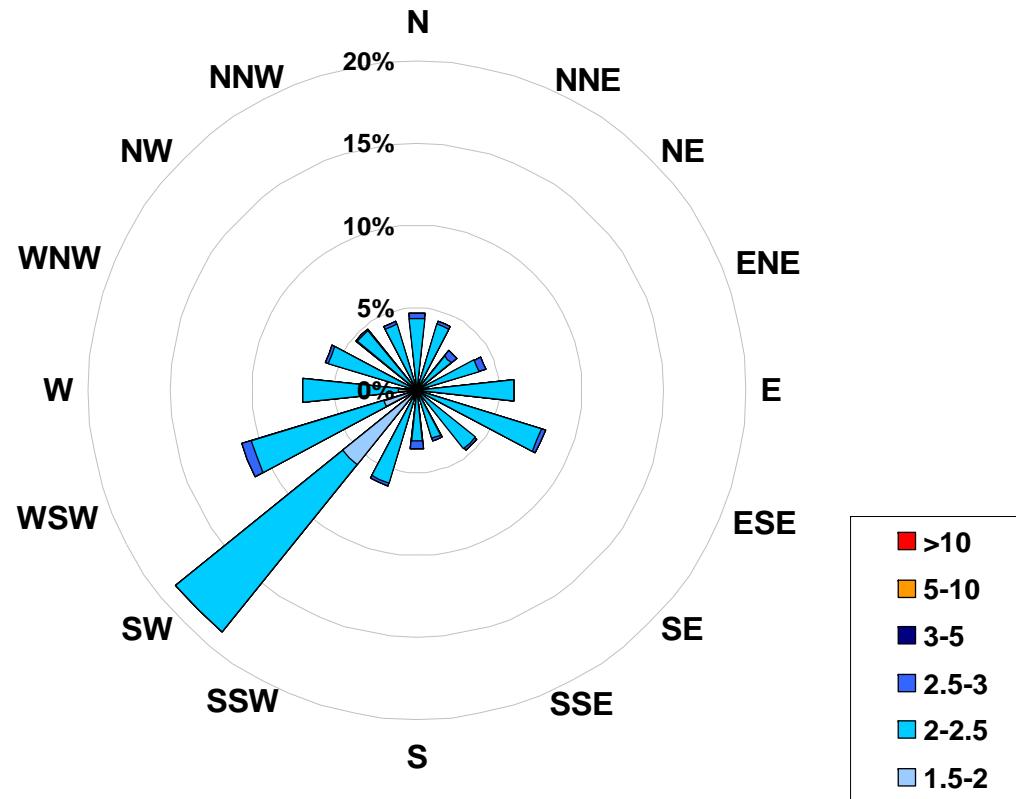


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for March 2008



Calms:		Frequency Distribution of THC in ppm		
		Range	Frequency (hrs)	
1.5	<	2	69	
2	to	2.5	614	
2.5	to	3	24	
3	to	5	0	
5	to	10	0	
> 10			0	
Total Non-Zero Values			709	



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

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	18.3 $\mu\text{g}/\text{m}^3$
Maximum 24-hr Value:	5.7 $\mu\text{g}/\text{m}^3$
15-Mar	21:00 22:00
19-Mar	

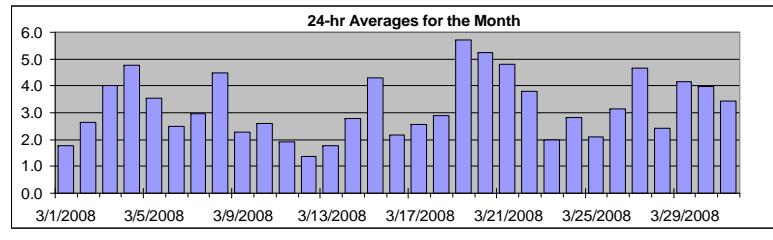
AIC Time:	0 hrs	Operational Time:	737 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	99.1%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	11.7	8.2	4.4	2.8	1.4	0.0	0.0	3.2	3 $\mu\text{g}/\text{m}^3$	3.0 $\mu\text{g}/\text{m}^3$

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	25:00	26:00	27:00	28:00	29:00	30:00	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	24:00	25:00	26:00	27:00	28:00	29:00	30:00				
1-Mar-08	0	0	0	0	1	0	1	3	4	3	3	0	4	5	4	2	4	2	2	1	0	2	0	1	1.8	4.9							
2-Mar-08	1	2	5	5	1	3	2	2	4	1	2	2	3	3	2	4	2	3	2	2	3	2	3	3	2.6	5.3							
3-Mar-08	3	7	3	2	2	2	2	3	2	3	4	2	3	3	4	5	6	8	9	5	6	5	4	4	4.0	9.2							
4-Mar-08	3	4	3	4	6	5	6	8	8	5	4	4	5	4	4	4	3	4	5	8	6	5	4	5	4.8	8.3							
5-Mar-08	4	5	6	5	6	5	4	5	4	1	1	1	2	1	0	1	2	3	9	9	4	1	3	0	3.5	9.3							
6-Mar-08	0	2	0	1	3	3	3	3	4	3	3	3	2	1	2	4	2	4	2	3	3	5	3	3	2.5	5.5							
7-Mar-08	3	1	1	0	1	1	3	3	4	5	5	2	1	2	2	4	3	4	3	5	6	4	5	3	3.0	6.1							
8-Mar-08	4	3	5	4	4	4	4	7	4	7	6	3	0	1	2	3	3	2	4	12	17	4	3	3	4.5	16.6							
9-Mar-08	5	4	3	1	2	4	3	3	5	4	4	4	2	2	2	0	0	0	2	1	0	1	1	1	2.3	5.2							
10-Mar-08	1	2	3	2	3	3	4	5	6	4	4	3	3	0	5	1	2	3	5	2	0	0	1	1	2.6	5.9							
11-Mar-08	0	1	0	0	1	1	1	3	2	3	4	2	D	D	1	0	2	3	10	4	3	0	D	0	1.9	10.2							
12-Mar-08	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	0	1	4	3	4	5	2	4	4	1.4	4.6							
13-Mar-08	0	0	0	0	1	0	3	7	5	3	2	1	0	0	0	2	0	3	5	3	3	1	1	2	1.8	7.3							
14-Mar-08	2	3	1	2	3	3	6	11	2	2	2	0	3	3	5	4	3	2	2	2	1	2	2	2.8	10.7								
15-Mar-08	2	1	2	0	3	1	3	0	2	5	5	4	3	2	1	2	1	1	3	8	14	18	12	10	4.3	18.3							
16-Mar-08	6	5	1	3	4	4	5	7	0	0	0	1	2	1	1	2	1	1	1	2	1	1	1	2	2.2	6.5							
17-Mar-08	4	4	2	2	2	3	2	3	3	2	1	3	0	0	1	0	2	4	10	6	4	1	1	1	2.6	9.6							
18-Mar-08	2	3	2	2	2	3	3	4	4	3	2	0	D	0	3	P	3	8	3	4	6	3	2	0	2.9	8.3							
19-Mar-08	3	4	7	6	6	6	4	6	6	7	9	9	10	11	8	9	5	3	4	4	7	2	1	1	5.7	11.1							
20-Mar-08	2	2	4	6	7	9	12	11	9	9	5	2	0	2	2	8	10	7	5	5	4	3	2	2	5.2	11.7							
21-Mar-08	2	4	3	4	9	7	7	10	4	7	4	2	2	3	4	2	5	5	5	6	7	3	7	4.8	10.1								
22-Mar-08	4	4	3	3	4	4	6	13	4	5	5	4	2	0	0	2	3	2	0	6	4	5	4	3	3.8	12.6							
23-Mar-08	1	1	0	0	0	1	7	2	0	2	3	3	3	2	2	0	2	6	3	3	2	2	1	2.0	6.6								
24-Mar-08	0	0	0	1	1	0	0	0	15	16	10	1	0	1	0	D	0	1	3	4	3	3	2	2.8	16.1								
25-Mar-08	2	1	1	0	1	2	2	6	1	1	0	0	2	6	2	0	2	D	3	4	4	3	2	2	2.1	5.7							
26-Mar-08	2	1	2	1	7	3	3	5	4	2	0	0	0	0	0	1	1	1	4	10	9	8	6	3	3.1	10.5							
27-Mar-08	5	6	4	5	5	3	5	7	10	9	7	1	0	0	10	4	4	1	3	2	5	4	5	6	4.7	10.2							
28-Mar-08	6	3	5	3	2	3	2	3	6	5	3	0	0	0	0	1	0	1	5	2	4	1	2	1	2.4	6.3							
29-Mar-08	2	2	5	4	3	1	2	3	3	4	4	6	5	4	4	4	5	4	6	6	6	5	7	4.2	6.8								
30-Mar-08	5	5	5	6	5	5	6	5	5	6	4	5	4	1	1	8	4	3	2	2	1	1	1	4.0	7.6								
31-Mar-08	1	3	2	2	1	4	4	4	4	7	6	4	2	3	5	4	4	3	3	4	3	3	3	3.4	6.7								
Hourly Avg	2.5	2.7	2.5	2.4	3.0	3.0	3.6	4.9	4.4	4.2	3.6	2.4	2.2	2.2	2.5	2.5	2.9	3.2	4.1	4.5	4.6	3.4	3.1	2.6									
Hourly Max	6.3	6.7	6.5	5.6	8.7	8.9	11.7	12.6	14.6	16.1	10.5	9.4	9.5	11.1	10.1	8.6	9.8	8.3	10.2	11.7	16.6	18.3	12.3	9.5									

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})



Status Flag Characters

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

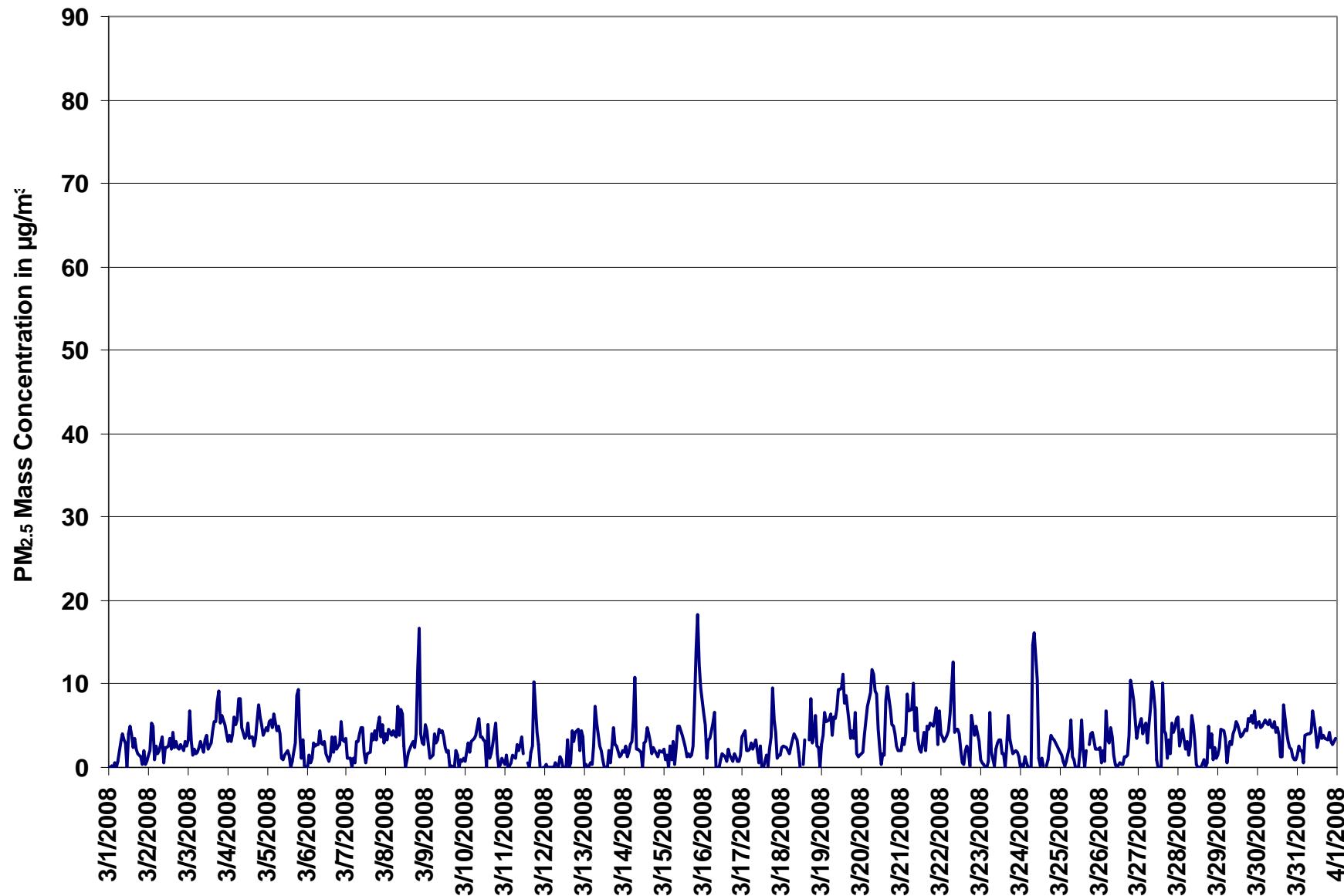


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

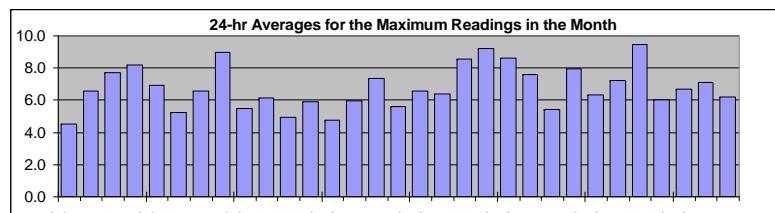
Maximum 1-hr Average:	30.7	$\mu\text{g}/\text{m}^3$	27-Mar	14:00 15:00
Maximum 24-hr Value:	9.4	$\mu\text{g}/\text{m}^3$	27-Mar	

AIC Time:	0 hrs	Operational Time:	743 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%
Percentile	99	95	75
	20.5	14.1	8.2
Percentile	50	25	5
	6.0	4.3	2.3
Percentile	1		
	1.3		
Average / Median		6.8	6 $\mu\text{g}/\text{m}^3$
Geomean			6.6 $\mu\text{g}/\text{m}^3$

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-hour Average	Daily Maximum	
1-Mar-08	1:00	1	2	2	1	2	1	6	6	7	7	7	6	6	6	6	5	7	5	5	4	4	6	3	3	4.5	7.4	
2-Mar-08	2:00	4	5	12	9	8	8	6	5	11	7	5	6	7	10	6	7	6	5	5	5	5	4	6	6	6.6	11.9	
3-Mar-08	3:00	10	12	7	4	5	4	4	5	6	6	6	6	6	5	5	7	9	8	15	18	12	10	10	6	7.7	18.1	
4-Mar-08	4:00	5	6	6	6	9	7	9	11	12	8	5	8	9	10	12	7	7	6	11	11	9	9	7	6	8.2	12.5	
5-Mar-08	5:00	6	7	8	8	8	7	8	7	8	4	6	5	6	7	4	4	5	5	17	16	8	4	6	3	6.9	16.6	
6-Mar-08	6:00	2	5	2	3	5	4	5	4	6	5	6	9	6	5	4	6	5	6	4	5	10	8	6	6	5.2	10.2	
7-Mar-08	7:00	6	4	3	2	3	2	10	6	8	7	11	7	5	6	6	6	7	5	11	10	7	11	8	6	6.6	11.5	
8-Mar-08	8:00	8	6	9	6	9	7	10	13	11	13	10	4	3	4	8	8	9	6	8	23	21	7	6	6	6	9.0	23.5
9-Mar-08	9:00	9	8	6	4	4	11	9	6	7	7	7	6	5	6	9	3	4	3	4	4	2	2	2	3	4	5.5	10.6
10-Mar-08	10:00	4	4	5	4	6	9	6	12	10	7	6	8	7	7	8	6	7	5	9	8	2	2	3	3	6.2	11.6	
11-Mar-08	11:00	3	3	1	3	6	7	2	6	4	5	7	4	2	3	6	4	6	6	15	11	7	4	2	3	4.9	14.6	
12-Mar-08	12:00	2	3	1	0	3	1	2	3	6	5	6	5	5	2	16	5	8	15	7	7	16	5	8	12	5.9	16.2	
13-Mar-08	13:00	2	3	2	2	3	2	7	10	8	6	9	5	3	2	4	6	4	6	9	6	5	3	4	3	4.8	10.1	
14-Mar-08	14:00	4	4	3	4	5	5	12	15	5	5	5	3	8	8	9	9	7	5	6	4	5	3	3	6	5.9	15.3	
15-Mar-08	15:00	6	4	4	3	5	3	5	3	5	8	7	7	8	5	4	3	5	4	11	19	24	15	16	7.4	23.5		
16-Mar-08	16:00	9	10	3	9	6	10	8	11	10	4	2	3	4	4	4	7	5	3	3	6	5	3	3	5.6	10.5		
17-Mar-08	17:00	7	13	5	4	5	10	4	4	5	6	4	8	4	5	6	4	7	13	16	13	6	4	3	3	6.6	16.0	
18-Mar-08	18:00	4	4	5	4	3	4	10	6	6	6	5	5	7	8	11	P	8	14	7	9	9	5	6	2	6.4	14.4	
19-Mar-08	19:00	5	7	9	8	8	9	8	8	12	13	12	12	15	11	12	10	6	8	5	11	4	3	2	8.6	14.9		
20-Mar-08	20:00	4	4	9	8	11	12	18	17	14	12	10	7	6	5	5	17	18	12	7	6	5	5	3	4	9.2	18.0	
21-Mar-08	21:00	4	6	5	6	13	11	9	12	12	9	8	6	8	6	12	5	10	11	7	7	8	10	5	14	8.6	14.1	
22-Mar-08	22:00	6	8	5	5	5	7	11	15	12	7	8	8	5	4	4	6	8	5	14	13	5	7	6	6	7.6	15.3	
23-Mar-08	23:00	3	3	3	1	2	10	20	4	5	5	6	6	10	5	4	5	5	10	5	5	4	4	4	4	5.4	20.1	
24-Mar-08	0:00	1	2	2	4	2	2	6	7	26	27	28	6	8	7	9	6	5	4	10	9	8	5	5	4	8.0	28.4	
25-Mar-08	1:00	4	3	2	2	5	4	6	10	5	4	3	1	8	20	18	8	6	2	8	8	8	6	6	4	6.3	20.3	
26-Mar-08	2:00	5	2	4	2	18	11	4	8	9	4	5	5	4	3	5	5	3	14	16	17	11	9	5	7.2	17.8		
27-Mar-08	3:00	13	11	7	8	7	5	9	10	13	12	12	4	1	2	31	21	19	3	6	4	8	7	7	8	9.4	30.7	
28-Mar-08	4:00	9	5	7	5	5	10	5	5	11	8	5	4	7	3	3	6	4	3	10	7	9	2	7	3	6.0	10.6	
29-Mar-08	5:00	4	5	7	6	6	3	4	5	6	6	6	8	7	8	7	8	10	8	9	7	9	7	9	6	6.7	9.9	
30-Mar-08	6:00	7	7	7	7	7	7	7	7	7	8	7	9	12	8	7	19	7	5	5	5	3	3	4	7.1	18.7		
31-Mar-08	7:00	3	4	3	3	4	5	7	6	9	11	9	10	5	6	10	7	7	5	6	6	7	5	5	6	6.2	10.9	
Hourly Avg		5.3	5.4	4.9	4.6	6.1	6.4	7.6	7.9	8.7	7.7	7.6	6.1	6.2	6.4	8.1	7.0	7.7	6.5	8.4	8.7	8.2	6.1	5.7	5.5			
Hourly Max		12.7	13.2	11.9	8.8	17.8	12.2	20.1	17.2	25.8	27.5	28.4	11.8	12.2	20.3	30.7	20.6	19.1	14.9	16.6	23.5	20.8	23.5	14.8	16.0			

Particulate Matter (PM_{2.5})



Status Flag Characters

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

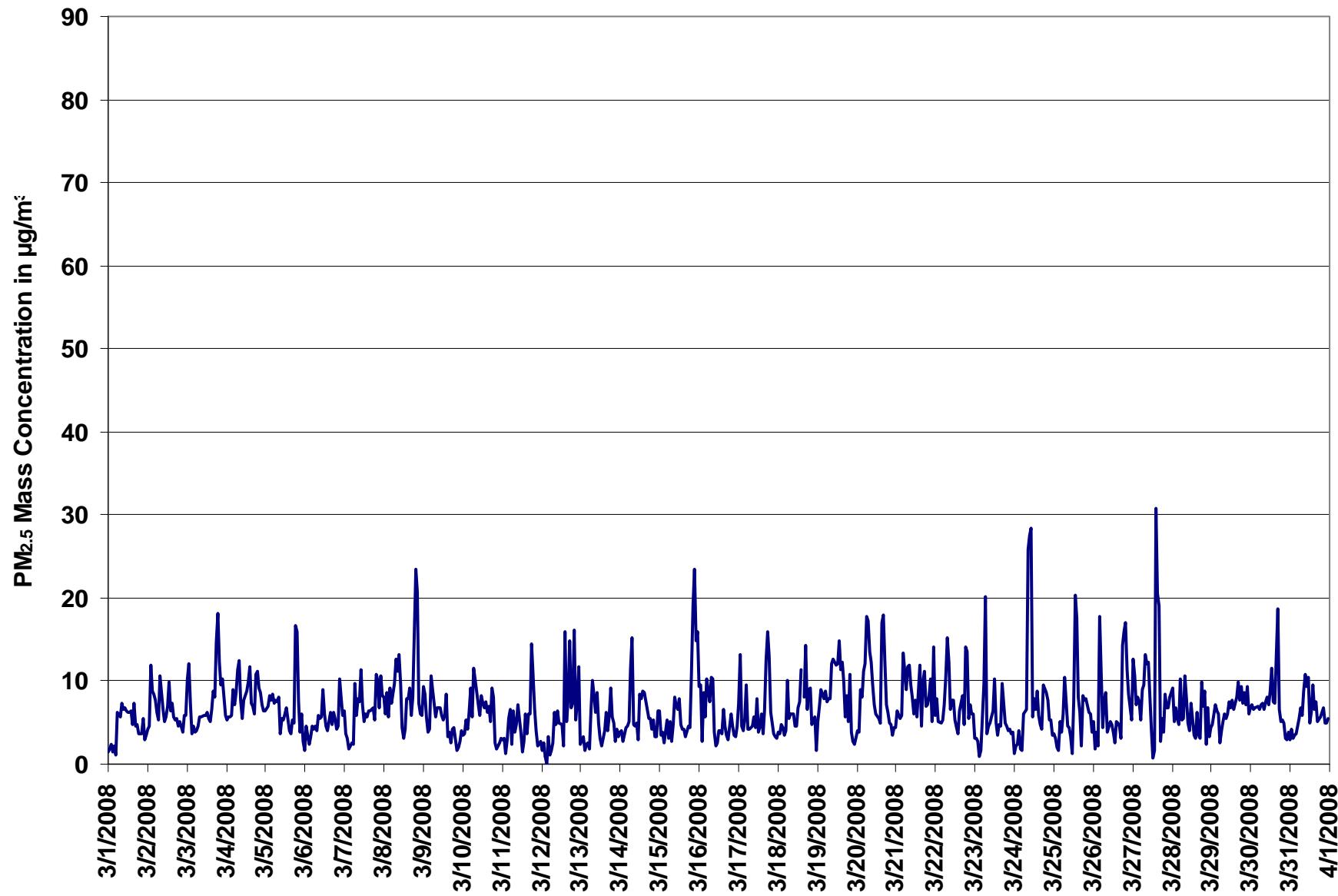
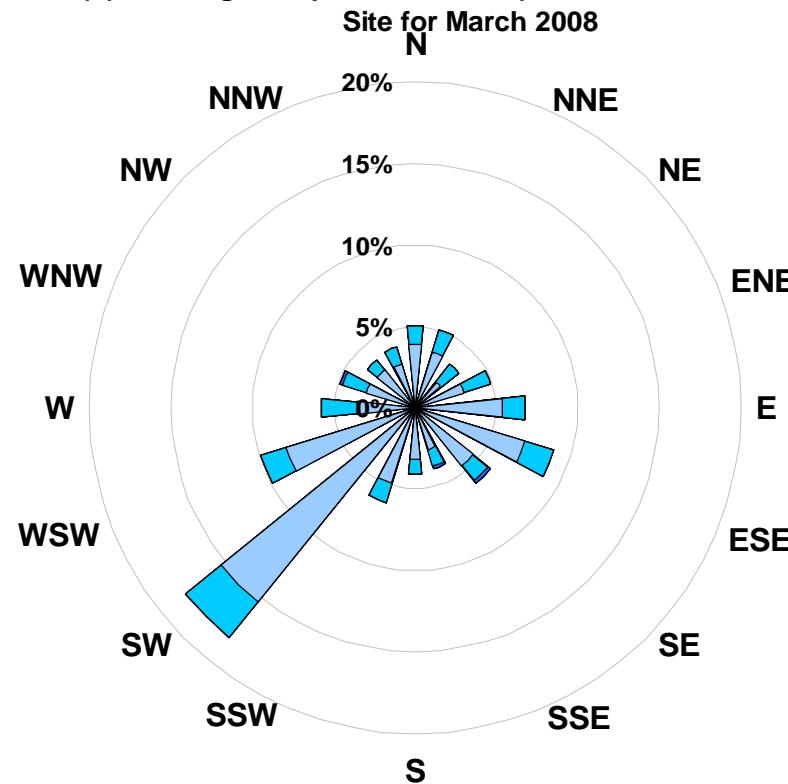


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Crescent Heights



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³		
Range	Frequency (hrs)	
1.0 < 5	597	
5 to 15	137	
15 to 25	3	
25 to 50	0	
50 to 80	0	
> 80	0	
Total Non-Zero Values	737	



PAS - Crescent Heights Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	90.3	%	19-Mar	7:00 8:00
Maximum 24-hr Value:	74.4	%	16-Mar	

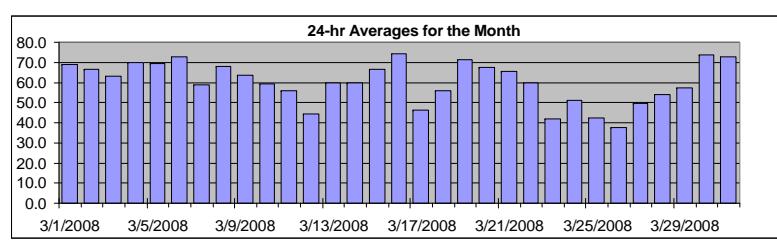
AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	89.0	84.2	73.9	61.8	49.7	26.8	18.6		

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	64	63	65	64	65	63	61	63	65	61	62	57	56	66	77	75	76	76	77	79	72	76	84	83	68.7	83.7	
2-Mar-08	79	83	85	84	78	76	70	64	67	61	54	54	53	53	52	53	57	60	64	64	68	70	73	72	66.4	85.4	
3-Mar-08	72	70	65	64	68	70	71	68	63	57	55	55	54	54	57	58	57	56	60	64	59	63	72	81	63.0	80.5	
4-Mar-08	77	74	79	81	83	86	85	82	79	78	73	68	63	60	56	52	47	50	57	62	67	72	75	76	70.1	86.3	
5-Mar-08	75	74	74	75	73	68	70	72	73	72	69	70	71	70	63	57	54	60	64	67	69	65	73	84	69.2	84.3	
6-Mar-08	82	81	82	83	83	82	81	80	78	75	71	68	66	61	58	56	58	61	60	64	67	69	65	73	73.0	83.2	
7-Mar-08	74	68	66	69	66	65	66	66	64	59	48	42	34	36	35	39	42	50	61	66	69	71	74	74	58.6	74.5	
8-Mar-08	79	80	81	84	85	85	86	81	73	66	62	57	48	45	42	48	48	53	60	68	73	75	77	78	68.1	85.5	
9-Mar-08	80	82	82	79	80	80	77	75	71	67	62	59	55	51	48	43	40	41	50	60	58	59	65	67	63.8	82.3	
10-Mar-08	68	68	69	73	72	74	74	73	66	58	55	48	50	39	42	43	39	45	54	63	61	64	62	63	59.4	74.2	
11-Mar-08	65	62	61	64	63	64	63	61	57	56	50	48	44	30	29	28	31	40	57	82	86	80	64	60	55.9	85.7	
12-Mar-08	54	56	59	55	55	51	49	47	47	47	39	34	27	23	29	27	24	34	43	49	48	54	57	58	44.5	59.4	
13-Mar-08	60	63	66	72	75	76	78	75	70	63	60	53	46	41	38	40	38	41	49	58	65	68	69	74	60.0	78.3	
14-Mar-08	75	77	77	81	82	80	78	75	70	67	59	41	33	34	38	44	47	47	51	53	54	55	57	60	59.8	82.3	
15-Mar-08	68	68	69	72	78	83	84	77	69	63	62	61	58	56	55	54	55	55	60	63	67	72	75	75	66.6	83.6	
16-Mar-08	77	77	80	83	84	84	84	84	84	78	75	68	65	63	61	59	60	63	69	74	77	77	79	80	74.4	84.2	
17-Mar-08	77	62	58	57	56	58	60	61	59	53	41	37	26	22	21	22	23	26	34	46	55	56	50	50	46.3	77.2	
18-Mar-08	50	56	63	67	69	70	73	69	64	56	47	37	27	27	31	40	42	52	59	61	70	71	70	68	55.7	73.2	
19-Mar-08	67	67	79	87	89	89	90	90	90	90	84	76	69	58	52	47	45	44	48	53	68	76	78	77	71.4	90.3	
20-Mar-08	77	83	83	83	83	82	81	78	74	59	48	42	31	28	30	46	60	66	71	77	80	83	85	67.2	85.1		
21-Mar-08	84	85	84	85	85	85	84	79	73	69	59	48	43	40	43	41	41	45	54	60	67	71	70	74	65.4	85.4	
22-Mar-08	77	79	82	83	85	86	86	80	73	67	57	51	46	41	38	35	34	36	31	46	52	56	56	60	59.9	86.0	
23-Mar-08	61	60	60	58	59	63	60	55	42	32	30	30	25	25	22	18	19	25	31	36	40	45	52	61	42.1	63.3	
24-Mar-08	66	68	63	65	69	69	59	45	48	62	86	78	63	47	40	23	22	22	27	33	34	41	45	48	51.0	86.1	
25-Mar-08	52	56	58	54	55	55	54	50	40	34	29	26	26	35	42	37	35	22	26	32	40	50	54	57	42.4	57.9	
26-Mar-08	61	57	58	56	55	55	61	58	48	35	28	22	20	19	16	15	13	13	16	21	28	43	49	53	37.6	60.8	
27-Mar-08	54	59	63	66	67	66	67	62	54	45	40	35	24	19	35	36	44	40	42	44	46	55	60	68	49.6	68.4	
28-Mar-08	81	81	82	81	80	75	74	71	71	67	57	47	35	29	28	24	19	17	28	36	43	53	58	58	53.8	81.7	
29-Mar-08	59	62	67	72	73	65	61	58	57	54	53	53	52	47	43	42	38	40	49	56	63	68	71	72	57.3	73.1	
30-Mar-08	72	74	76	76	75	76	75	72	68	60	54	54	58	62	58	60	81	88	90	89	88	86	84	73.5	89.5		
31-Mar-08	84	82	81	82	84	84	84	84	82	76	68	62	60	56	52	53	55	65	70	77	79	78	77	77	72.9	84.3	
	Hourly Avg	70.0	70.2	71.5	72.7	73.4	73.2	72.5	69.5	66.0	61.4	56.3	51.1	46.3	43.2	42.8	41.9	42.8	46.1	52.1	58.2	61.9	65.5	67.5	69.4		
	Hourly Max	84.2	84.9	85.4	86.9	89.5	89.4	89.7	90.3	90.3	89.5	86.1	78.1	70.5	70.4	77.2	74.8	81.2	88.4	89.5	89.1	88.8	87.6	86.1	85.1		

HOURLY AVERAGE TABLE

Relative Humidity (RH)



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

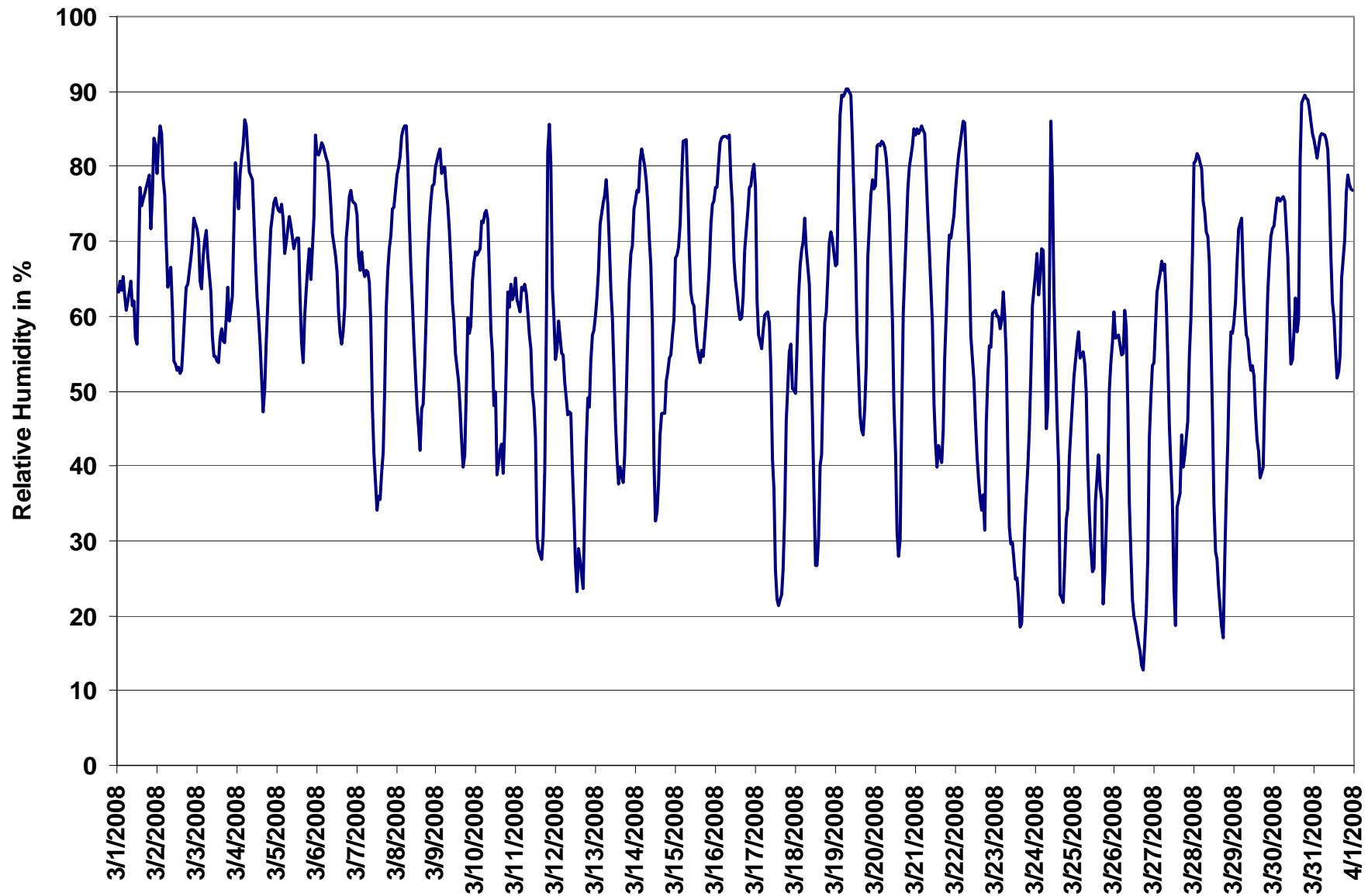


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

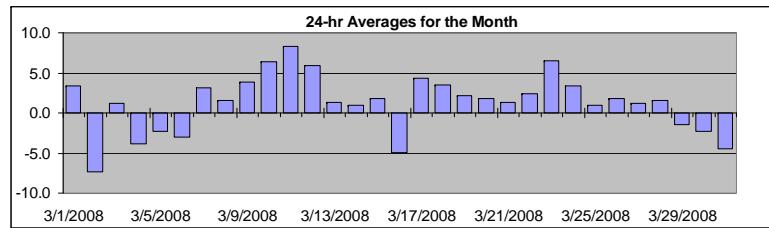
Maximum 1-hr Average:	14.6	°C	11-Mar	13:00 14:00
Maximum 24-hr Value:	8.3	°C	11-Mar	

AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.2	9.7	5.1	1.3	-2.6	-6.9	-9.6		

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Mar-08	4	4	3	3	3	3	4	4	6	7	7	6	5	4	3	3	3	3	2	2	2	2	2	0	0	3.4	7.3
2-Mar-08	-1	-1	-2	-2	-3	-7	-8	-9	-11	-11	-11	-9	-9	-8	-7	-6	-6	-8	-9	-9	-9	-9	-10	-10	-10	-7.3	-0.6
3-Mar-08	-9	-6	-3	-2	-3	-3	-4	-2	0	2	3	4	5	6	6	6	6	5	4	4	4	3	3	2	1.2	6.0	
4-Mar-08	2	2	0	-1	-1	-2	-3	-4	-6	-7	-7	-6	-5	-4	-3	-3	-3	-3	-5	-5	-6	-7	-7	-7	-3.8	2.0	
5-Mar-08	-7	-7	-6	-6	-4	-2	-3	-4	-4	-4	-3	-2	-1	0	0	1	2	0	-1	-1	-1	-1	-2	-3	-2.3	1.6	
6-Mar-08	-4	-5	-5	-6	-6	-6	-7	-7	-6	-5	-4	-3	-2	0	1	3	3	1	-1	-2	-3	-3	-2	-2	-3.0	2.8	
7-Mar-08	-2	0	0	-1	-1	-1	-1	-1	0	3	7	8	9	9	10	10	9	8	5	3	2	1	0	-1	3.2	9.7	
8-Mar-08	-2	-2	-3	-4	-4	-5	-5	-4	-1	1	4	6	8	8	10	9	8	7	5	3	2	0	-1	-1	1.6	9.6	
9-Mar-08	-1	-2	-2	-2	-3	-2	-1	-1	1	3	5	7	8	10	11	12	12	11	8	5	5	4	3	2	3.9	12.0	
10-Mar-08	2	2	2	1	1	1	0	1	3	5	6	9	10	12	13	14	14	13	11	8	7	6	6	6	6.4	14.3	
11-Mar-08	6	6	7	6	6	6	6	7	8	9	12	13	13	15	15	13	12	10	8	4	4	5	5	5	8.3	14.6	
12-Mar-08	5	5	4	4	4	4	4	4	5	5	8	9	11	11	10	10	11	8	6	4	4	3	2	2	5.9	10.9	
13-Mar-08	2	1	0	-1	-2	-3	-3	-2	0	2	3	4	5	5	5	5	4	3	2	0	-1	-1	-2	1.3	5.3		
14-Mar-08	-3	-3	-3	-4	-5	-4	-4	-3	-2	0	2	5	6	6	6	5	4	4	3	3	2	2	1	1	0.9	6.5	
15-Mar-08	1	0	0	0	-1	-2	-2	-1	0	2	3	4	5	6	5	6	5	5	3	2	2	0	0	0	1.8	5.9	
16-Mar-08	-1	0	-1	-2	-2	-2	-1	-1	-3	-7	-8	-7	-6	-6	-6	-5	-4	-5	-7	-8	-9	-10	-10	-9	-4.9	-0.5	
17-Mar-08	-7	-1	1	2	2	2	2	2	3	5	6	8	10	11	10	10	9	8	6	5	3	2	3	3	4.3	10.6	
18-Mar-08	2	0	-1	-2	-3	-3	-3	-2	0	3	6	9	10	11	10	9	10	7	6	5	3	3	2	1	3.5	10.9	
19-Mar-08	1	0	-1	-2	-2	-2	-2	-1	0	0	1	2	4	7	8	9	8	7	6	4	3	1	0	0	2.2	9.1	
20-Mar-08	0	-2	-3	-3	-4	-3	-3	-2	-1	2	6	7	7	9	9	9	7	5	4	2	1	0	-1	-3	1.8	9.2	
21-Mar-08	-3	-4	-5	-5	-5	-6	-6	-3	-1	2	5	7	8	9	8	8	8	6	5	3	2	0	0	-1	1.3	8.8	
22-Mar-08	-1	-3	-4	-4	-5	-5	-5	-3	0	3	6	8	9	9	9	9	9	7	4	2	1	2	2	2.4	9.4		
23-Mar-08	2	2	1	1	0	-1	-1	1	5	7	8	8	10	11	12	13	13	13	12	10	9	8	6	5	6.5	13.3	
24-Mar-08	4	4	5	4	3	2	3	4	4	3	0	1	3	5	5	5	5	5	4	3	3	2	1	1	3.3	5.3	
25-Mar-08	0	-2	-2	-2	-3	-4	-4	-2	1	4	5	6	6	5	4	4	5	6	4	2	0	-2	-4	-4	0.9	6.3	
26-Mar-08	-4	-3	-3	-3	-3	-3	-4	-4	0	4	6	8	8	8	9	9	9	9	6	4	2	-2	-3	-4	1.8	9.0	
27-Mar-08	-4	-5	-6	-6	-7	-7	-7	-5	-1	2	5	6	8	9	7	7	5	6	5	4	4	3	2	0	1.2	9.4	
28-Mar-08	0	-1	-1	0	-1	-2	-3	-2	-1	1	3	5	6	6	6	7	7	7	4	2	0	-1	-2	-1	1.5	7.1	
29-Mar-08	-2	-2	-2	-2	-3	-3	-3	-3	-3	-2	-1	0	1	2	3	3	2	0	-2	-3	-4	-5	-5	-1.4	2.8		
30-Mar-08	-5	-5	-6	-6	-6	-7	-6	-5	-3	0	2	2	3	2	3	2	0	-1	-1	-2	-2	-3	-4	-5	-2.3	3.1	
31-Mar-08	-5	-5	-6	-8	-8	-8	-7	-7	-5	-3	-2	-2	0	2	1	0	-3	-4	-6	-7	-7	-7	-7	-7	-4.4	1.5	
Hourly Avg	-1.1	-1.1	-1.3	-1.7	-2.1	-2.4	-2.5	-1.8	-0.5	1.1	2.8	3.9	4.9	5.7	5.9	6.1	5.8	4.8	3.2	1.7	0.8	-0.1	-0.7	-1.1			
Hourly Max	5.7	6.3	6.7	5.9	6.0	5.8	6.0	6.5	7.7	9.0	12.1	12.9	13.2	14.6	14.5	14.0	14.3	13.3	11.8	10.1	8.7	7.6	6.5	6.5			

HOURLY AVERAGE TABLE

Ambient Temperature (T)



Status Flag Characters

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

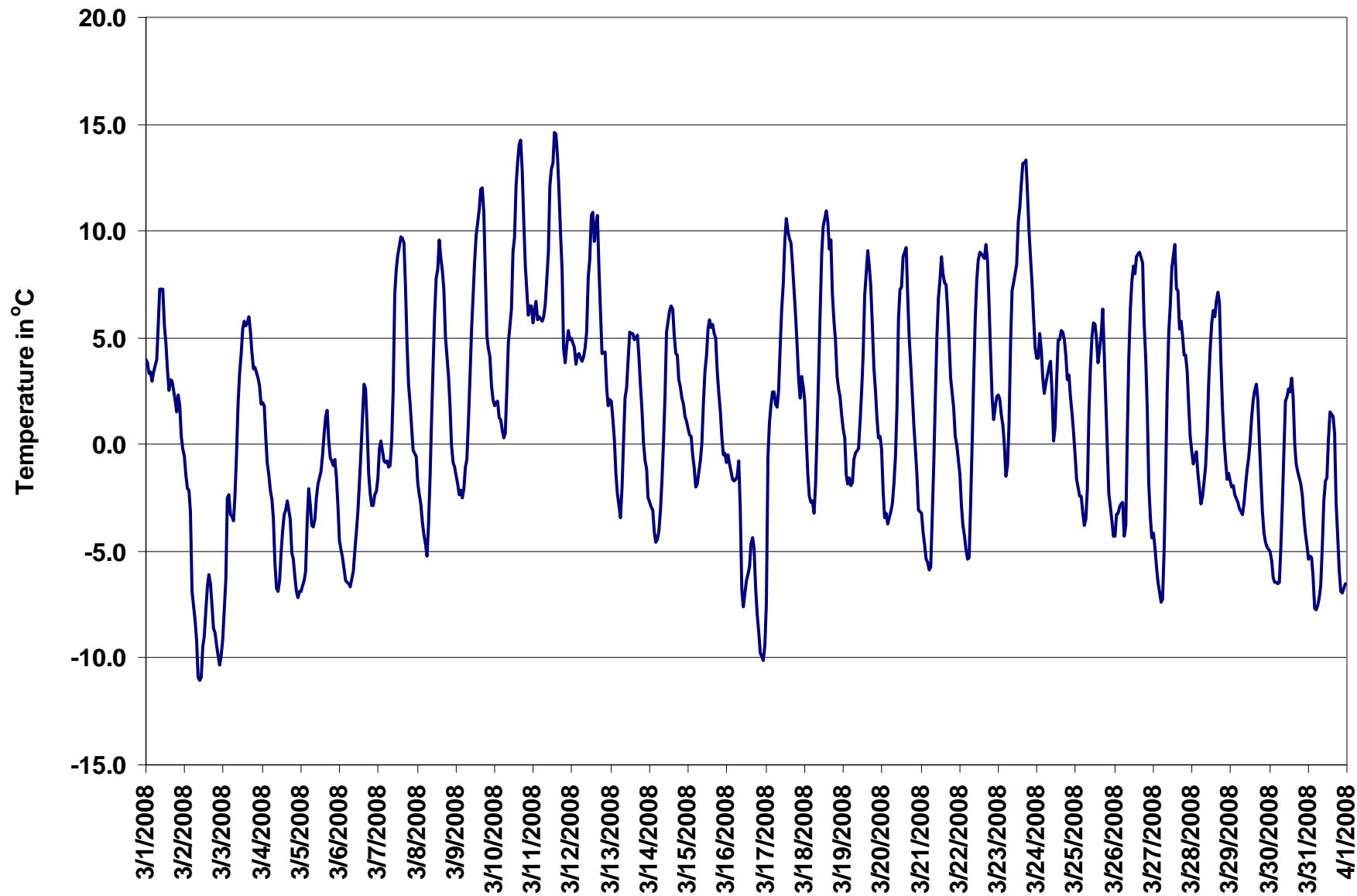


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	749.4 W/m ²	26-Mar 12:00 13:00
Maximum 24-hr Value:	220.9 W/m ²	26-Mar

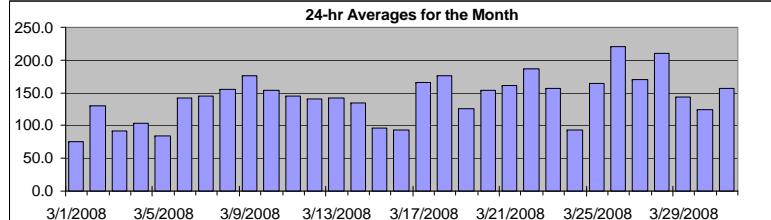
AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	666.6	550.9	276.5	5.2	0.0	0.0	0.0	142.4 W/m ²	5.2 W/m ²

Day Mountain Standard Time

	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Mar-08	0:00 1:00	0	0	0	0	0	0	0	31	208	383	332	219	187	74	104	132	99	30	1	0	0	0	0	0	0	75.0	383.4
2-Mar-08	0:00 1:00	0	0	0	0	0	0	0	15	36	180	343	533	500	489	380	368	227	62	2	0	0	0	0	0	0	130.6	532.6
3-Mar-08	0:00 1:00	0	0	0	0	0	0	1	50	139	244	373	348	360	275	165	127	91	33	1	0	0	0	0	0	0	91.9	372.9
4-Mar-08	0:00 1:00	0	0	0	0	0	0	0	11	49	89	152	229	486	472	336	359	244	69	2	0	0	0	0	0	0	104.1	485.8
5-Mar-08	0:00 1:00	0	0	0	0	0	0	0	16	53	104	223	272	298	309	282	297	156	19	1	0	0	0	0	0	0	84.5	308.6
6-Mar-08	0:00 1:00	0	0	0	0	0	0	0	20	85	179	360	463	599	581	389	393	248	83	2	0	0	0	0	0	0	141.9	599.4
7-Mar-08	0:00 1:00	0	0	0	0	0	0	1	39	133	360	486	373	450	499	387	400	256	80	3	0	0	0	0	0	0	144.4	498.9
8-Mar-08	0:00 1:00	0	0	0	0	0	0	2	74	207	365	526	560	559	422	410	366	149	89	4	0	0	0	0	0	0	155.5	559.7
9-Mar-08	0:00 1:00	0	0	0	0	0	0	2	80	236	388	511	593	615	599	419	406	264	93	3	0	0	0	0	0	0	175.4	615.0
10-Mar-08	0:00 1:00	0	0	0	0	0	0	4	64	238	253	441	540	505	600	404	346	236	55	5	0	0	0	0	0	0	153.8	600.4
11-Mar-08	0:00 1:00	0	0	0	0	0	0	1	30	91	225	533	439	385	571	471	425	266	41	2	0	0	0	0	0	0	145.1	571.2
12-Mar-08	0:00 1:00	0	0	0	0	0	0	2	55	188	170	509	450	651	498	228	309	261	45	4	0	0	0	0	0	0	140.4	651.2
13-Mar-08	0:00 1:00	0	0	0	0	0	0	5	106	271	347	375	552	646	341	282	212	205	75	3	0	0	0	0	0	0	142.5	645.7
14-Mar-08	0:00 1:00	0	0	0	0	0	0	5	110	174	254	371	520	461	431	389	264	122	105	7	0	0	0	0	0	0	134.0	520.1
15-Mar-08	0:00 1:00	0	0	0	0	0	0	5	56	124	277	362	327	287	330	223	159	108	48	5	0	0	0	0	0	0	96.3	362.4
16-Mar-08	0:00 1:00	0	0	0	0	0	0	5	26	32	62	132	286	303	296	350	331	263	131	8	0	0	0	0	0	0	92.8	349.8
17-Mar-08	0:00 1:00	0	0	0	0	0	0	4	80	176	390	485	488	685	626	482	282	190	63	7	0	0	0	0	0	0	165.0	684.7
18-Mar-08	0:00 1:00	0	0	0	0	0	0	12	122	280	443	573	658	687	636	316	234	215	29	4	0	0	0	0	0	0	175.4	687.1
19-Mar-08	0:00 1:00	0	0	0	0	0	0	6	18	48	93	212	258	310	570	592	467	303	130	13	0	0	0	0	0	0	125.9	592.0
20-Mar-08	0:00 1:00	0	0	0	0	0	0	5	45	143	284	559	471	461	562	414	507	188	40	10	0	0	0	0	0	153.7	561.5	
21-Mar-08	0:00 1:00	0	0	0	0	0	0	17	141	276	370	524	561	491	545	391	280	181	68	12	0	0	0	0	0	0	160.7	561.4
22-Mar-08	0:00 1:00	0	0	0	0	0	0	20	168	327	478	602	685	564	536	415	254	227	166	17	0	0	0	0	0	0	185.8	684.6
23-Mar-08	0:00 1:00	0	0	0	0	0	0	25	157	325	435	337	470	545	419	454	320	168	86	11	0	0	0	0	0	0	156.3	544.5
24-Mar-08	0:00 1:00	0	0	0	0	0	0	10	56	129	105	119	204	388	438	288	232	170	90	16	0	0	0	0	0	0	93.5	438.0
25-Mar-08	0:00 1:00	0	0	0	0	0	0	28	172	345	499	633	520	431	376	295	197	248	183	23	0	0	0	0	0	0	164.6	633.0
26-Mar-08	0:00 1:00	0	0	0	0	0	0	13	95	346	481	619	728	749	529	673	517	348	179	23	0	0	0	0	0	0	220.9	749.4
27-Mar-08	0:00 1:00	0	0	0	0	0	0	30	157	331	468	581	648	645	537	276	246	87	60	16	0	0	0	0	0	0	170.2	647.8
28-Mar-08	0:00 1:00	0	0	0	0	0	0	24	111	168	409	643	712	748	648	481	511	381	174	17	0	0	0	0	0	0	209.5	747.7
29-Mar-08	0:00 1:00	0	0	0	0	0	0	8	59	138	247	346	405	427	471	443	454	312	103	21	0	0	0	0	0	0	143.1	470.7
30-Mar-08	0:00 1:00	0	0	0	0	0	0	24	187	238	415	361	370	407	436	418	91	16	12	9	0	0	0	0	0	0	124.4	436.4
31-Mar-08	0:00 1:00	0	0	0	0	0	0	23	80	141	293	414	420	459	544	504	398	341	105	27	1	0	0	0	0	0	156.2	543.9

HOURLY AVERAGE TABLE

Solar Radiation (SR)



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

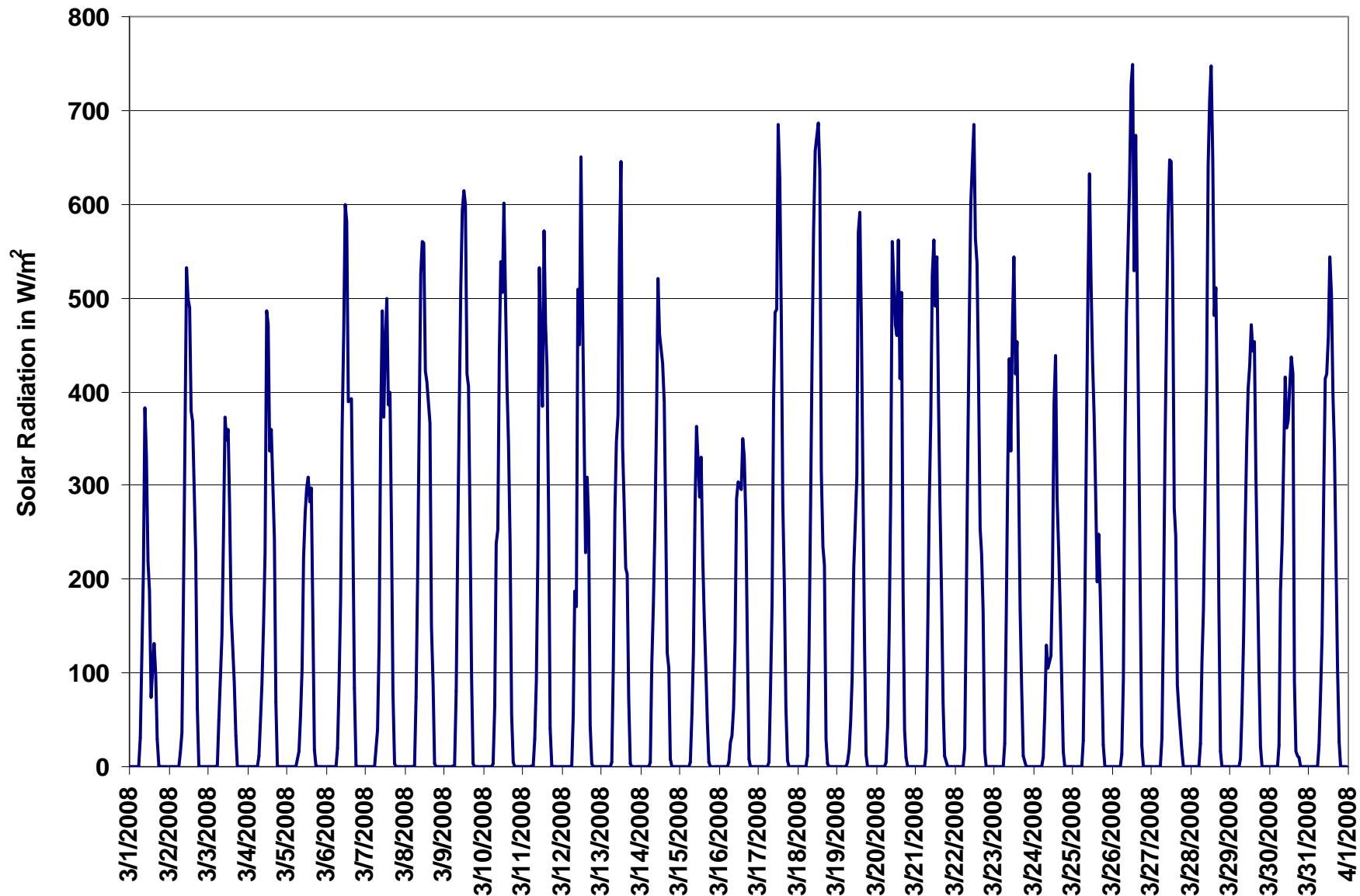


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	40.9	km/hr	11-Mar	14:00 15:00
Maximum 24-hr Value:	23.9	km/hr	11-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.6	22.9	15.0	11.1	7.3	4.8	3.6	11.9 km/hr

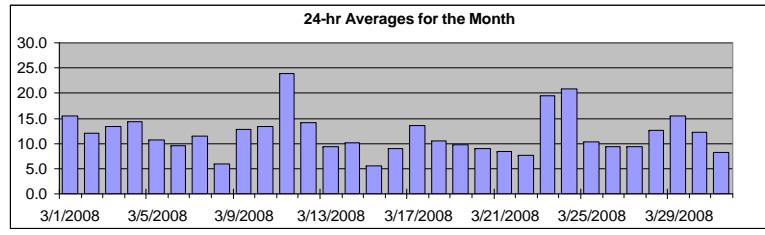
Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00 8:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	15:00 16:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Daily Max
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00			9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	16:00 17:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Mar-08	12	18	16	15	8	11	19	24			21	23	19	25	20	15	8	10	13	13	12	12	16	16	12	10	15.4	25.2	
2-Mar-08	8	11	7	8	20	19	19	18			18	16	15	12	12	10	10	12	13	12	10	10	10	8	5	5	12.0	20.1	
3-Mar-08	4	13	15	22	15	16	14	20			15	17	23	21	21	20	14	10	6	6	4	8	8	12	10	5	13.3	22.8	
4-Mar-08	6	6	11	13	14	14	16	24			25	20	20	16	17	17	19	18	11	8	4	8	13	14	14	15	14.3	24.9	
5-Mar-08	18	17	13	9	14	18	13	13			8	6	6	8	10	12	12	13	11	7	4	5	6	10	13	13	10.8	17.8	
6-Mar-08	15	11	8	9	8	8	7	8			7	11	13	16	16	13	12	9	12	10	10	7	6	5	5	5	9.6	15.9	
7-Mar-08	6	13	13	13	15	18	17	20			13	13	8	8	11	14	15	14	13	11	8	7	5	8	6	6	11.5	19.8	
8-Mar-08	4	6	5	4	5	4	6	5			4	4	7	7	7	7	7	11	8	7	5	4	5	7	6	6	5.9	11.1	
9-Mar-08	5	5	6	8	8	7	11	12			12	15	13	15	15	17	17	20	20	15	12	11	14	17	18	16	12.9	20.0	
10-Mar-08	17	20	17	12	11	10	8	7			8	9	11	13	15	18	16	19	18	14	7	9	13	16	14	19	13.3	19.8	
11-Mar-08	16	22	20	17	16	18	20	18			17	18	22	30	31	31	41	35	40	31	30	29	20	15	22	18	23.9	40.9	
12-Mar-08	19	17	19	19	19	17	19	18			16	16	18	19	16	14	16	8	12	13	10	6	11	7	4	8	14.2	18.8	
13-Mar-08	6	7	9	8	7	9	6	7			7	7	9	11	9	11	13	14	12	12	9	9	11	13	13	7	9.4	13.5	
14-Mar-08	7	7	6	5	4	5	6	7			10	9	9	12	12	13	12	14	13	17	14	15	15	13	9	9	10.2	17.0	
15-Mar-08	9	7	6	7	7	5	3	5			5	4	7	7	6	6	6	5	6	3	5	3	4	6	6	5	5.6	9.1	
16-Mar-08	5	7	7	5	6	4	6	5			18	23	17	14	12	13	11	8	8	8	5	4	7	9	7	9.0	23.2		
17-Mar-08	9	26	28	27	22	17	16	10			11	12	15	14	15	11	13	9	8	5	5	9	8	8	11	12	13.5	28.4	
18-Mar-08	14	9	8	7	6	12	9	10			13	14	14	13	15	13	12	13	12	9	8	7	9	9	8	9	10.6	14.9	
19-Mar-08	10	10	9	10	12	10	11	11			11	10	11	7	6	7	7	8	8	9	9	9	14	13	8	12	9.8	13.8	
20-Mar-08	7	6	5	4	4	5	5	5			8	7	6	7	9	8	9	14	20	19	14	12	12	12	11	7	9.1	20.4	
21-Mar-08	7	5	7	7	5	4	4	4			7	6	9	10	11	13	18	15	14	12	10	6	7	8	6	7	8.5	18.1	
22-Mar-08	6	8	6	3	4	3	4	5			9	9	8	7	7	7	8	7	9	12	11	8	9	9	11	12	7.6	12.2	
23-Mar-08	15	16	15	12	8	7	6	9			12	23	22	20	21	25	23	24	19	28	29	25	25	29	30	22	19.5	29.5	
24-Mar-08	21	27	20	15	12	17	20	23			29	27	23	23	20	26	26	26	26	24	20	14	17	15	15	15	15	20.9	28.5
25-Mar-08	13	13	12	9	7	6	7	7			10	13	14	15	15	19	14	9	9	9	6	7	7	8	8	10	10.2	18.6	
26-Mar-08	8	14	7	6	5	10	8	9			11	13	14	14	14	13	13	12	9	7	4	6	8	7	5	5	9.3	13.9	
27-Mar-08	6	6	5	4	4	6	6	4			5	5	6	9	13	13	16	14	12	10	15	11	15	14	13	13	9.3	16.1	
28-Mar-08	16	15	13	15	14	12	13	14			13	13	13	15	13	10	9	10	6	11	12	17	13	11	12	12.6	16.6		
29-Mar-08	13	12	14	18	20	24	11	11			16	21	20	20	18	18	18	19	19	18	16	13	12	10	7	8	15.6	24.0	
30-Mar-08	9	9	10	11	12	13	12	13			11	12	8	9	7	12	12	9	13	16	15	16	14	16	14	17	12.1	16.8	
31-Mar-08	14	13	13	11	10	8	7	7			7	6	6	5	7	7	5	5	8	10	9	6	8	9	8	7	8.2	14.3	

1-hr Average	10.5	12.1	11.2	10.8	10.4	10.9	10.6	11.3	12.2	13.1	13.1	13.7	13.7	14.0	14.0	13.3	13.3	12.3	10.7	9.9	11.2	11.5	10.6	10.4
Hourly Max	20.6	27.5	28.4	26.9	22.1	24.0	20.3	24.3	28.5	26.8	22.8	30.2	30.5	30.6	40.9	34.5	40.3	31.0	29.7	28.5	25.3	29.5	29.5	22.3

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Status Flag Characters

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



PAS - Crescent Heights Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	40.6	km/hr	11-Mar	14:00 15:00
Maximum 24-hr Value:	23.0	km/hr	11-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	AverageV	11.7 km/hr
	29.5	22.7	14.6	10.5	6.5	3.2	1.8		

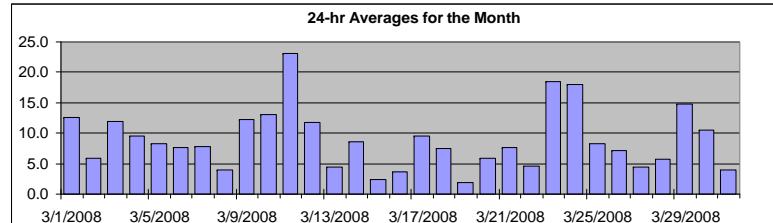
Day Mountain Standard Time

	Hour Start Hour End	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	23:00 12:00	24-hr Vector Average	Daily Max
1-Mar-08	12	18	15	15	7	11	18	24	21	23	18	24	20	15	8	10	13	13	12	12	14	14	16	11	10	12.7	24.4
2-Mar-08	7	11	6	7	20	18	19	18	18	16	15	12	11	9	9	9	12	12	10	10	10	7	4	4	5.9	19.9	
3-Mar-08	3	12	15	22	15	16	14	20	15	17	23	21	21	20	14	10	6	6	3	7	7	12	10	4	11.9	22.6	
4-Mar-08	5	6	11	13	14	14	16	24	25	20	19	16	17	16	19	18	11	8	3	8	13	14	14	15	9.6	24.7	
5-Mar-08	18	17	13	9	13	18	12	12	7	6	5	8	9	10	12	13	11	7	4	4	6	10	13	13	8.2	17.6	
6-Mar-08	14	11	8	9	8	8	7	8	7	10	13	15	16	13	11	7	11	10	10	7	6	5	5	4	7.7	15.7	
7-Mar-08	5	13	13	13	15	18	17	20	13	13	4	7	11	14	15	14	13	11	8	6	5	5	1	5	7.7	19.7	
8-Mar-08	3	6	3	2	4	3	5	5	3	3	7	6	4	6	3	11	8	7	5	3	4	7	6	5	3.9	10.6	
9-Mar-08	5	5	5	8	7	6	10	12	12	15	12	15	15	17	17	19	20	15	12	11	13	17	18	15	12.3	19.8	
10-Mar-08	17	20	17	12	11	10	8	6	8	8	11	13	15	17	16	19	18	14	6	9	13	16	14	19	13.1	19.6	
11-Mar-08	16	22	20	16	16	18	20	18	17	18	22	30	30	30	41	34	40	31	29	28	20	15	22	18	23.0	40.6	
12-Mar-08	19	17	19	19	19	17	18	18	16	16	17	19	16	14	16	7	10	12	10	3	11	7	1	6	11.8	18.7	
13-Mar-08	5	7	9	7	9	2	7	6	6	6	9	11	8	10	13	13	11	12	8	9	11	13	12	6	4.4	13.0	
14-Mar-08	7	6	6	5	3	5	6	6	10	8	9	10	11	12	12	14	13	17	14	15	15	13	8	8	8.6	16.8	
15-Mar-08	9	7	5	7	6	5	2	5	4	2	6	5	5	4	4	3	5	3	5	2	4	6	5	3	2.4	8.6	
16-Mar-08	4	7	7	5	6	3	5	5	18	23	17	13	12	12	11	6	7	8	5	2	7	9	7	7	3.6	23.0	
17-Mar-08	7	26	28	27	22	17	15	10	11	12	15	14	15	10	12	8	4	4	3	9	7	8	11	12	9.6	28.3	
18-Mar-08	14	8	8	6	6	12	9	10	13	14	14	13	14	12	11	7	11	7	5	6	9	8	6	9	7.4	14.4	
19-Mar-08	9	9	8	10	12	10	11	10	11	10	11	11	5	1	3	5	8	8	9	9	14	13	8	12	1.9	13.6	
20-Mar-08	5	6	3	3	2	2	2	4	6	2	5	4	4	4	5	9	20	19	14	11	12	12	10	7	5.9	19.8	
21-Mar-08	6	5	6	7	5	4	3	4	6	6	8	9	10	13	18	15	14	12	9	5	6	6	5	6	7.6	17.8	
22-Mar-08	3	7	4	2	3	2	2	5	9	9	7	6	3	4	8	6	8	12	10	8	9	9	11	12	4.6	11.9	
23-Mar-08	14	15	15	12	8	7	6	8	12	22	22	20	21	24	23	24	19	28	29	25	25	29	29	22	18.5	29.4	
24-Mar-08	20	27	20	15	12	17	20	23	27	26	23	23	20	26	25	26	26	24	20	13	16	15	14	14	18.0	27.4	
25-Mar-08	13	12	12	9	5	5	6	6	9	13	13	14	14	15	13	3	8	8	6	7	7	7	8	8.3	14.9		
26-Mar-08	7	14	6	5	4	10	7	9	11	13	13	13	11	12	12	10	7	6	3	6	7	7	5	5	7.2	13.5	
27-Mar-08	3	2	4	0	3	5	6	2	3	1	5	8	12	12	13	10	12	9	15	10	14	13	12	13	4.4	14.9	
28-Mar-08	16	15	13	15	13	12	13	14	13	12	12	11	12	12	8	7	10	5	10	12	16	12	11	12	5.8	16.5	
29-Mar-08	11	11	14	18	20	24	9	10	16	20	20	20	18	17	17	19	18	18	16	13	11	9	7	8	14.8	23.8	
30-Mar-08	9	9	10	10	12	13	12	13	11	12	7	6	5	10	11	6	9	15	15	15	14	16	14	17	10.5	16.7	
31-Mar-08	14	13	13	11	10	8	7	6	6	5	5	4	4	5	2	4	8	9	9	6	8	9	8	6	4.0	14.2	

1-hr Vector	3.5	5.4	5.3	5.2	3.7	4.3	4.2	4.8	4.8	5.0	5.0	4.1	4.4	4.9	4.5	4.8	4.0	2.6	0.9	1.7	2.3	3.0	3.6	3.6
Hourly Max	20.4	27.4	28.3	26.7	21.9	23.8	20.0	24.2	27.4	26.4	22.6	29.9	30.1	30.3	40.6	34.1	40.1	30.6	29.5	28.4	25.2	29.4	29.4	22.1

HOURLY AVERAGE TABLE

Wind Speed (WSv)



Status Flag Characters

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



PAS - Crescent Heights Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Wind Data Summary									
Calm Time: 0 hrs 0% calms									
Operational Time: 744 hrs									
Calibration Time: 0 hrs									
AMD Operational Uptime: 100.0%									
Percentile	99	95	75	50	25	5	1	Average	
	355.2	331.8	255.5	219.4	115.6	20.8	2.5	244 deg	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	271	238	236	218	240	253	224	221	227	238	246	334	328	318	279	229	238	238	244	227	264	235	217	242	249	WSW
2-Mar-08	285	357	209	290	1	3	355	348	353	358	1	341	323	281	279	258	218	220	211	221	229	207	144	167	314	NW
3-Mar-08	243	225	241	240	247	240	239	226	236	226	220	221	218	221	227	238	216	199	252	221	290	332	322	183	234	SW
4-Mar-08	288	358	0	355	355	9	15	14	8	14	2	358	345	335	337	344	336	329	231	226	225	229	229	241	341	NNW
5-Mar-08	238	235	229	235	262	280	324	340	339	348	286	250	247	256	291	290	298	312	268	321	318	325	330	358	287	WNW
6-Mar-08	47	68	77	61	67	92	86	82	87	92	99	105	117	116	123	149	171	149	116	122	125	163	221	206	107	ESE
7-Mar-08	244	238	238	241	240	238	241	234	229	224	286	321	344	345	332	316	315	327	326	285	283	10	114	245	273	W
8-Mar-08	147	140	199	258	112	187	135	187	143	148	115	113	121	85	155	223	234	246	262	190	160	128	121	145	160	SSE
9-Mar-08	174	162	217	200	207	238	242	237	230	235	220	219	222	223	219	215	217	207	197	195	184	195	210	226	214	SW
10-Mar-08	237	231	236	235	238	231	244	217	212	215	212	213	229	216	219	220	210	206	235	244	237	233	236	233	226	SW
11-Mar-08	236	227	228	234	240	235	234	239	232	233	229	227	236	233	239	231	237	274	273	275	258	261	265	241	WSW	
12-Mar-08	272	268	268	270	271	271	275	276	265	265	266	271	300	298	322	297	310	4	14	22	351	10	184	305	287	WNW
13-Mar-08	309	315	323	330	331	347	283	219	242	294	313	329	335	358	0	14	23	31	72	108	90	96	106	140	4	N
14-Mar-08	119	99	98	123	133	104	63	44	59	73	75	105	142	144	155	173	156	119	103	95	104	103	79	138	113	ESE
15-Mar-08	97	78	84	56	73	125	132	122	159	249	225	226	199	223	16	317	22	122	91	53	132	136	145	92	114	ESE
16-Mar-08	150	212	233	212	204	202	341	266	323	337	325	322	322	326	324	268	250	230	241	154	128	125	130	125	293	WNW
17-Mar-08	182	200	205	209	221	227	238	248	251	262	282	287	317	309	348	12	305	279	215	190	229	232	259	269	244	WSW
18-Mar-08	279	287	283	217	203	223	237	231	226	226	224	225	214	209	230	238	135	259	90	121	125	118	178	216	219	SW
19-Mar-08	241	273	266	265	266	283	266	256	257	259	271	284	278	275	78	135	84	67	76	81	98	103	99	96	255	WSW
20-Mar-08	103	120	147	350	114	306	69	54	45	314	83	93	110	185	263	32	56	52	50	85	92	103	106	133	76	ENE
21-Mar-08	65	143	116	122	136	135	139	120	109	115	99	89	106	108	118	128	138	151	172	141	150	95	72	66	119	ESE
22-Mar-08	85	346	14	292	72	180	102	239	202	194	185	146	176	102	57	83	160	131	160	152	156	160	157	183	150	SSE
23-Mar-08	186	191	211	202	231	251	253	226	204	192	189	179	184	189	187	192	189	229	229	223	217	217	215	221	206	SSW
24-Mar-08	225	221	243	245	235	235	241	255	284	301	290	287	284	296	301	313	312	316	320	299	292	293	290	292	281	W
25-Mar-08	286	280	279	280	235	238	240	234	272	288	298	298	265	265	351	246	177	246	240	208	214	227	217	235	263	W
26-Mar-08	238	198	206	234	288	227	211	222	217	222	228	232	231	247	239	230	238	235	229	36	113	123	120	136	221	SW
27-Mar-08	35	350	92	269	333	2	11	14	246	196	150	82	81	103	200	199	192	114	119	107	123	139	195	205	140	SE
28-Mar-08	230	222	247	237	224	235	226	231	252	249	236	261	257	292	299	321	223	223	22	51	56	78	105	97	244	WSW
29-Mar-08	64	11	24	22	33	44	5	32	38	43	34	33	20	12	5	7	16	11	15	25	47	61	66	75	29	NNE
30-Mar-08	77	73	68	71	92	101	87	91	66	75	119	89	84	88	60	24	345	12	49	46	44	36	36	31	60	ENE
31-Mar-08	21	23	20	1	353	18	54	43	8	356	299	1	327	262	233	132	114	125	118	113	115	119	117	113	47	NE
Hourly Avg	239	232	239	248	256	257	259	251	265	263	256	270	259	259	272	255	232	238	215	174	167	161	188	208		



PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Calm Time: 0 hrs 0% calms Operational Time: 744 hrs							
Calibration Time: 0 hrs AMD Operational Uptime: 100.0%							
Percentile	99	95	75	50	25	5	
	81.2	62.1	25.4	14.2	8.9	6.0	4.7

Determined by the Yamartino 15-min interval calculation

Status Flag Characters

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

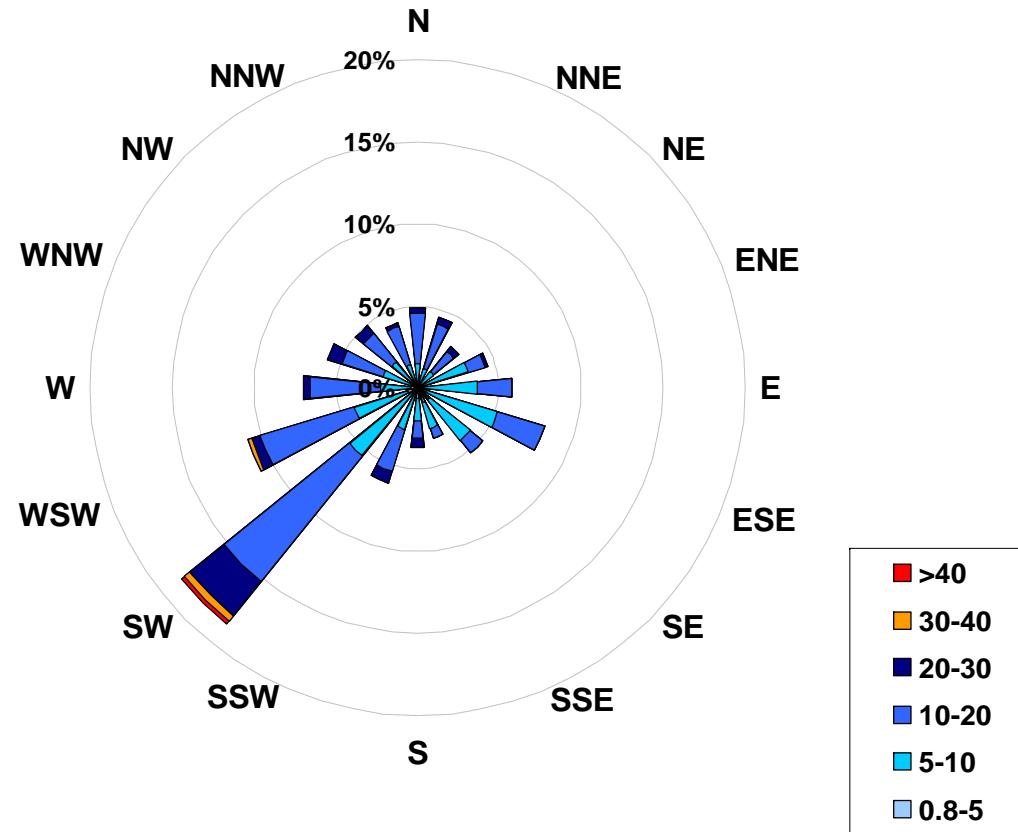
Day Mountain Standard Time

	Hour Start 1:00 Hour End 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 24:00	23:00 0:00	Daily Maximum	
1-Mar-08	11	14	11	10	24	17	18	5	6	8	14	15	9	11	26	11	14	14	10	7	24	15	17	19	25.7	
2-Mar-08	32	14	36	33	8	10	7	6	9	11	8	19	23	29	30	36	16	9	10	7	8	26	25	34	36.2	
3-Mar-08	53	16	11	8	8	6	10	6	9	9	7	9	8	8	9	9	21	15	49	23	26	11	22	51	53.0	
4-Mar-08	38	21	7	5	5	7	6	7	6	7	8	10	11	13	10	8	13	13	54	10	7	10	8	11	54.0	
5-Mar-08	6	5	12	18	12	8	18	7	12	19	27	21	20	30	14	16	18	21	16	45	22	8	9	16	45.0	
6-Mar-08	8	11	11	17	7	11	7	7	13	18	14	13	9	14	15	34	22	10	7	6	7	21	25	58	58.1	
7-Mar-08	65	10	11	8	5	7	8	6	12	12	56	23	17	11	14	12	15	7	8	17	19	75	77	49	76.7	
8-Mar-08	64	24	51	76	40	52	34	21	41	49	23	26	61	40	64	18	17	18	9	40	37	7	7	30	76.1	
9-Mar-08	22	16	22	14	24	23	10	10	9	10	15	11	13	12	10	10	7	7	6	12	10	6	6	24	24.0	
10-Mar-08	7	8	7	10	11	7	9	11	12	17	13	15	11	11	13	12	8	6	34	14	8	9	8	4	33.7	
11-Mar-08	11	4	4	7	9	6	7	6	7	9	7	8	10	8	6	9	5	9	8	5	10	11	6	6	10.9	
12-Mar-08	6	7	6	5	6	5	5	5	8	7	8	8	17	19	13	28	34	17	10	67	34	9	96	45	96.0	
13-Mar-08	29	11	8	11	7	8	79	9	29	37	20	20	31	28	17	17	17	11	25	12	15	10	16	21	79.2	
14-Mar-08	8	25	15	21	56	23	24	11	8	16	15	38	22	25	20	13	16	8	7	6	6	7	20	33	55.6	
15-Mar-08	19	15	27	22	29	19	53	23	44	70	41	51	32	58	50	62	45	36	14	35	12	14	26	76	76.2	
16-Mar-08	29	16	21	22	14	52	46	30	9	8	8	10	12	13	17	44	23	16	8	52	12	7	8	8	52.5	
17-Mar-08	38	6	4	7	7	8	9	9	8	10	12	12	14	26	23	36	56	32	57	9	40	20	12	12	56.6	
18-Mar-08	5	17	20	30	16	4	11	10	7	8	14	15	18	22	26	63	21	43	58	25	9	19	48	12	63.4	
19-Mar-08	17	19	23	9	17	14	13	8	9	9	16	13	65	85	68	52	27	16	11	15	9	11	22	10	84.7	
20-Mar-08	56	23	67	65	66	83	77	43	55	85	50	57	71	83	74	73	15	8	6	16	11	8	20	15	84.7	
21-Mar-08	34	25	25	6	20	19	34	22	17	19	22	29	23	19	10	15	13	18	13	19	23	40	60	39	60.0	
22-Mar-08	64	43	62	63	55	56	75	21	13	23	34	49	74	77	27	27	24	10	11	11	12	8	10	16	76.9	
23-Mar-08	17	20	18	7	24	13	14	18	16	8	9	10	11	9	8	9	9	10	4	5	7	5	5	8	24.3	
24-Mar-08	7	5	12	8	8	7	11	8	17	8	9	11	13	9	12	10	6	7	7	14	11	7	8	7	16.5	
25-Mar-08	8	11	11	40	53	45	37	18	22	15	16	17	18	40	38	84	25	23	18	21	24	8	9	10	84.3	
26-Mar-08	29	11	32	48	35	17	20	10	13	15	18	26	37	25	31	31	42	44	63	15	24	11	9	21	62.6	
27-Mar-08	60	61	48	95	35	19	37	69	79	93	41	32	28	27	44	44	14	14	29	8	17	18	18	14	14	94.5
28-Mar-08	10	8	14	7	9	9	14	9	17	19	19	35	38	20	44	41	24	49	35	6	7	24	17	11	49.1	
29-Mar-08	24	12	8	6	5	6	34	27	14	12	10	13	12	14	13	11	10	9	7	7	7	9	11	10	33.7	
30-Mar-08	10	12	8	6	7	8	12	13	12	15	35	49	60	28	18	57	57	20	11	8	9	8	7	6	60.4	
31-Mar-08	7	6	9	5	4	13	17	27	25	27	43	45	56	37	79	53	16	12	10	9	12	10	19	23	78.8	

Hourly Max 65 61 67 95 66 83 79 69 79 93 56 57 74 85 79 84 57 49 63 67 40 75 96 76



1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site
for March 2008



Calms:	0%	Frequency Distribution of Wind in km/hr		
		Range	Frequency (hrs)	
0.8	<	5	46	
5	to	10	286	
10	to	20	347	
20	to	30	58	
30	to	40	5	
> 40			2	
Total Non-Zero Values			744	



PAS – Portable-Brooks

Monthly Summary Tables, Graphs and Roses



PAS – Brooks Sulphur Dioxide Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

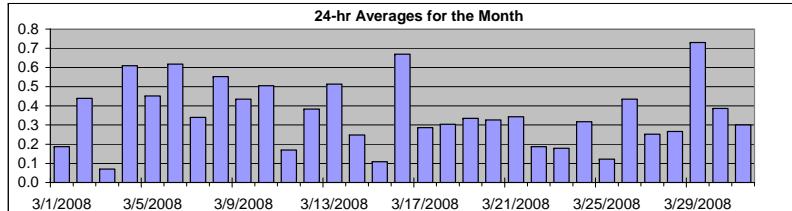
Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary
Number of 1-hr Exceedances: 0
Number of 24-hr Exceedances: 0
Maximum 1-hr Average: 4.7 ppb 4-Mar 7:00 8:00
Maximum 24-hr Average: 0.7 ppb 29-Mar

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99 2.2	95 1.0	75 0.4	50 0.2	25 0.1	5 0.0	1 0.0	Average 0.4 ppb	Median 0.2 ppb

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Mar-08	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Mar-08	1:00	0	0	0	0	0	1	0	0	0	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0.4	1.6
3-Mar-08	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
4-Mar-08	3:00	0	0	0	0	1	1	1	5	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.6	4.7
5-Mar-08	4:00	0	0	0	0	0	0	0	0	0	2	1	1	A	1	1	0	0	0	0	1	0	1	1	1	0.5	1.5
6-Mar-08	5:00	0	2	1	1	1	1	1	2	2	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.4
7-Mar-08	6:00	0	0	0	0	0	0	0	0	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.8
8-Mar-08	7:00	0	0	0	0	0	0	0	0	1	A	2	2	1	1	1	1	0	1	0	1	1	1	0	0	0.6	2.3
9-Mar-08	8:00	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.2
10-Mar-08	9:00	0	0	1	0	0	0	0	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.3
11-Mar-08	10:00	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
12-Mar-08	11:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0.4	1.7
13-Mar-08	12:00	0	0	0	0	0	A	0	0	0	1	1	2	1	1	1	1	1	1	1	0	0	0	1	0	0.5	1.5
14-Mar-08	13:00	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
15-Mar-08	14:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
16-Mar-08	15:00	0	A	0	0	0	1	2	2	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.7	2.1
17-Mar-08	16:00	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0.3	0.7
18-Mar-08	17:00	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
19-Mar-08	18:00	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.3	1.0
20-Mar-08	19:00	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	A	0	0	0.3	0.8
21-Mar-08	20:00	0	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	1.6
22-Mar-08	21:00	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.9
23-Mar-08	22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.3
24-Mar-08	23:00	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0.3	0.9
25-Mar-08	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.3
26-Mar-08	1:00	0	0	0	0	0	0	0	0	1	1	1	1	1	A	1	1	0	1	0	0	0	0	0	0	0.4	1.4
27-Mar-08	2:00	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	1.0
28-Mar-08	3:00	0	0	0	0	0	0	0	1	1	1	1	C	C	A	0	0	0	0	0	0	0	0	0	0	0.3	1.0
29-Mar-08	4:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	2	1	0	0	0.7	3.7
30-Mar-08	5:00	A	0	0	0	1	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.7
31-Mar-08	6:00	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0.3	1.1

Hourly Avg 0.2 0.1 0.2 0.2 0.2 0.3 0.4 0.5 0.5 0.5 0.6 0.6 0.6 0.5 0.4 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.2 0.3 0.2 0.2

Hourly Max 1.6 0.6 1.4 0.9 1.6 1.4 2.0 4.7 2.4 1.5 2.2 2.3 1.6 1.4 1.4 0.9 2.4 3.7 3.6 2.2 0.8 1.0 0.7 1.2

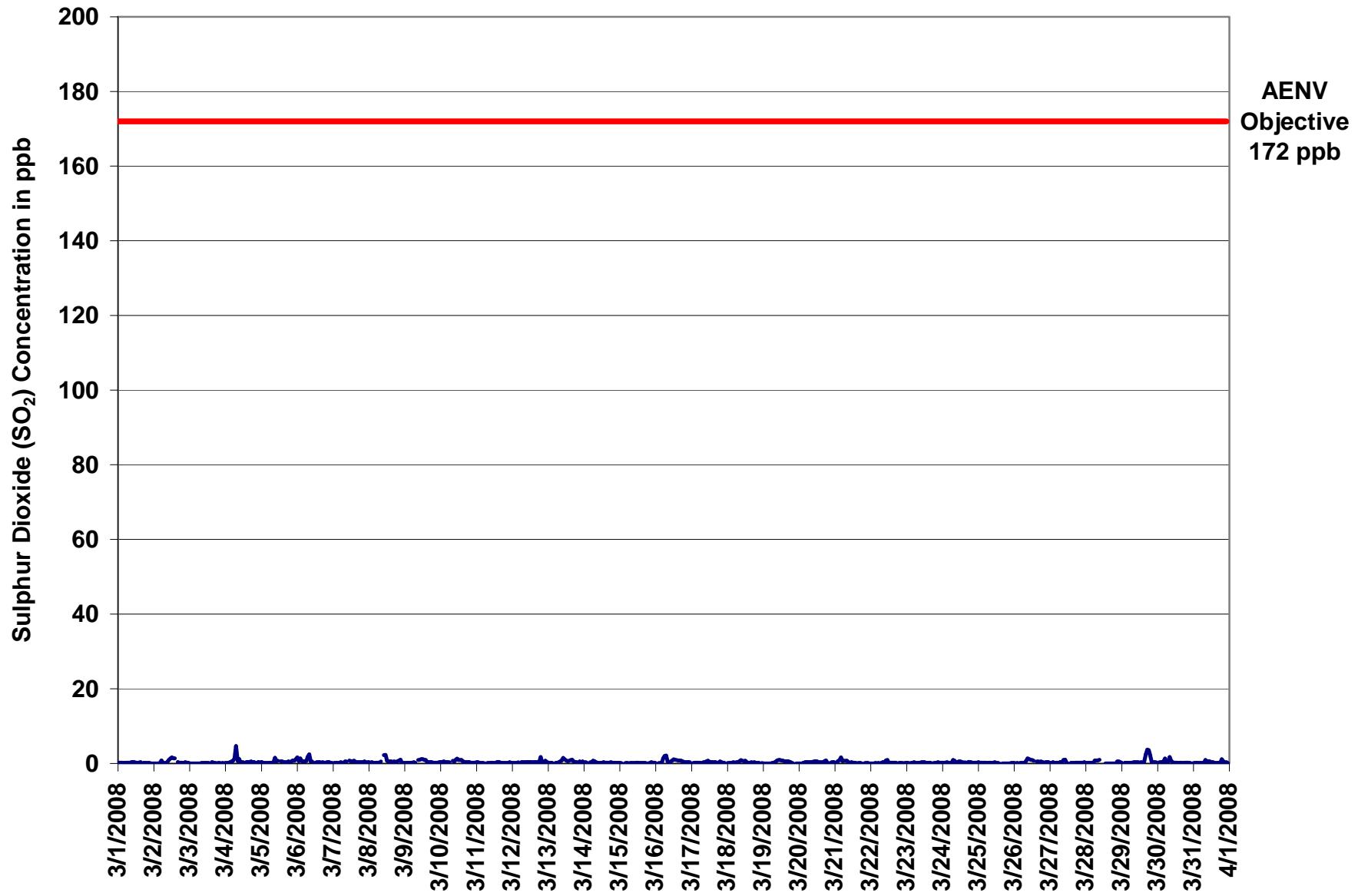


Figure 16. PAS – Brooks Sulphur Dioxide 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

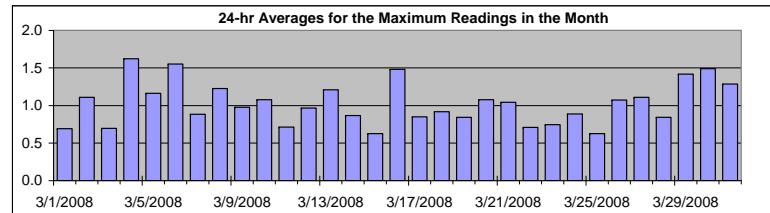
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	9.5 ppb	4-Mar 7:00 8:00
Maximum 24-hr Value:	1.6 ppb	4-Mar



AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median

4.8 2.7 1.0 0.8 0.6 0.5 0.3 1.0 ppb 0.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

	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 Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	0.9
2-Mar-08	1	0	1	1	1	3	1	1	0	1	2	2	2	2	2	2	A	1	1	1	1	1	1	1	1	1.1	3.0
3-Mar-08	1	1	1	0	0	0	1	1	1	1	1	1	2	A	2	1	1	1	1	1	1	1	1	1	1	0.7	1.6
4-Mar-08	1	1	1	1	1	1	8	10	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.6	9.5
5-Mar-08	1	1	1	1	1	1	1	1	1	3	2	1	A	1	1	1	1	1	1	1	1	1	1	1	3	1.2	2.9
6-Mar-08	5	2	4	1	1	1	1	3	3	5	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.6	4.9
7-Mar-08	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
8-Mar-08	1	1	1	1	1	1	1	1	1	A	3	3	1	1	1	1	1	1	1	1	2	2	2	1	1.2	3.3	
9-Mar-08	1	1	1	1	1	1	1	1	A	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.0	2.0
10-Mar-08	1	1	1	1	1	1	1	A	1	1	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1.1	1.8
11-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
12-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1.0	3.1
13-Mar-08	1	0	1	1	A	1	1	1	1	2	2	2	1	1	1	2	2	1	1	1	1	1	1	1	2	1.2	2.3
14-Mar-08	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	0.9	1.6
15-Mar-08	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0.6	0.9	
16-Mar-08	1	A	1	1	1	3	5	5	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1.5	4.9
17-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4
18-Mar-08	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	3	1	1	1	1	A	0.9	2.5
19-Mar-08	1	1	1	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	A	1	0	0.8	1.5	
20-Mar-08	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	1	A	1	1	1	1	1.1	4.0	
21-Mar-08	1	1	3	3	4	1	1	1	1	1	1	1	1	1	1	0	1	1	0	A	1	0	1	1	1.0	3.5	
22-Mar-08	0	1	0	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	A	1	1	1	1	0	0.7	1.6	
23-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0
24-Mar-08	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	2.0
25-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0.6	0.9	
26-Mar-08	1	1	1	1	1	1	1	1	2	2	2	1	1	A	1	1	1	1	1	1	1	1	1	1	3	1.1	2.8
27-Mar-08	1	1	1	1	1	1	1	3	1	2	2	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1.1	3.2
28-Mar-08	1	1	1	1	1	1	1	2	1	1	1	C	C	A	0	0	0	0	0	0	0	0	4	1	1	0.8	4.1
29-Mar-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	4	4	4	1	1	1	1.4	4.4	
30-Mar-08	A	1	1	1	1	2	4	2	3	7	4	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.5	6.7
31-Mar-08	1	1	1	1	1	1	1	1	5	3	2	1	1	1	1	1	1	4	3	1	1	1	1	1	1	1.3	5.1

Hourly Avg	0.8	0.7	0.8	0.7	0.9	1.0	1.3	1.5	1.4	1.3	1.3	1.2	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.1	0.9	0.9	0.9	0.9	0.9
Hourly Max	4.9	1.9	3.7	2.7	3.5	3.6	7.7	9.5	6.7	4.4	3.3	3.3	2.2	2.2	1.8	2.4	4.1	4.3	4.4	3.8	3.4	4.1	2.8	2.9	

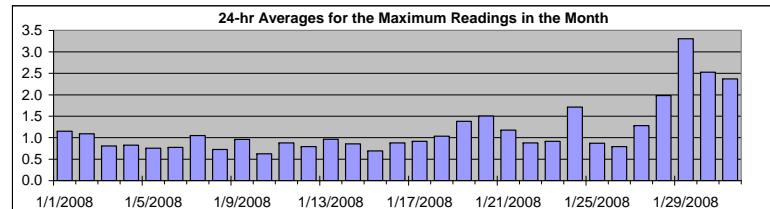


Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: January 1, 2008 to February 1, 2008

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)



Summary

Maximum 1-hr Value:	8.5	ppb	31-Jan	21:00 22:00
Maximum 24-hr Value:	3.3	ppb	29-Jan	

AIC Time:	32 hrs	Operational Time:	709 hrs								
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%								
Percentile	99	95	75	50	25	5	1	Average	1.2 ppb	Median	0.9 ppb
	5.1	3.1	1.2	0.9	0.7	0.5	0.5				

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	A	2	1	1	1	1	1	1	1.2	2.8
2-Jan-08	1:00	1	1	1	1	1	1	1	1	2	2	1	2	2	1	1	1	1	A	1	1	1	1	1	1	1	1.1	2.0
3-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.1	
4-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.3	
5-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	0.9	
6-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.3	
7-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.5	
8-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	1.4	
9-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1.0	1.6	
10-Jan-08	1:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.6	1.1
11-Jan-08	1:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
12-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	0.8	2.0	
13-Jan-08	1:00	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	A	1	1	1.0	2.2	
14-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3	
15-Jan-08	1:00	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.7	
16-Jan-08	1:00	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.0	
17-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	2	C	C	C	A	1	1	1	1	2	1	1	1	0.9	2.1		
18-Jan-08	1:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.0	1.9	
19-Jan-08	1:00	A	1	1	1	1	2	1	3	2	1	1	1	1	1	2	3	2	1	2	2	1	1	1	1	1.4	2.9	
20-Jan-08	1:00	1	1	1	1	1	3	3	1	1	2	2	2	1	1	3	3	2	2	1	1	1	1	1	A	1.5	3.4	
21-Jan-08	1:00	2	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.2	3.1	
22-Jan-08	1:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	0.9	1.7	
23-Jan-08	1:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
24-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	4	5	4	1	1	A	1.7	4.9	
25-Jan-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4	
26-Jan-08	1:00	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.9	
27-Jan-08	1:00	1	1	1	1	1	0	1	1	1	1	1	5	7	2	2	2	1	1	1	1	1	A	0	1	1.3	7.0	
28-Jan-08	1:00	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	A	3	2	3	3	2.0	3.1	
29-Jan-08	1:00	3	3	2	2	2	2	3	3	3	3	4	7	4	6	8	3	2	A	2	2	2	2	4	3	3.3	8.4	
30-Jan-08	1:00	3	3	2	2	2	2	2	2	2	2	4	2	3	3	5	4	A	1	4	1	2	2	2	1	2.5	5.1	
31-Jan-08	1:00	3	4	1	1	1	2	2	1	1	1	1	1	1	1	1	1	A	3	3	2	1	3	9	6	2.4	8.5	
	Hourly Avg	1.1	1.1	0.9	1.0	0.9	1.0	1.0	1.0	1.1	1.0	1.3	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.3	1.1	1.1	1.3	1.2	1.1		
	Hourly Max	3.2	3.9	2.4	3.1	2.3	2.7	2.8	2.9	3.3	3.3	4.2	7.2	7.0	6.2	8.4	4.3	3.2	3.7	4.9	3.8	3.2	8.5	6.3	5.3			

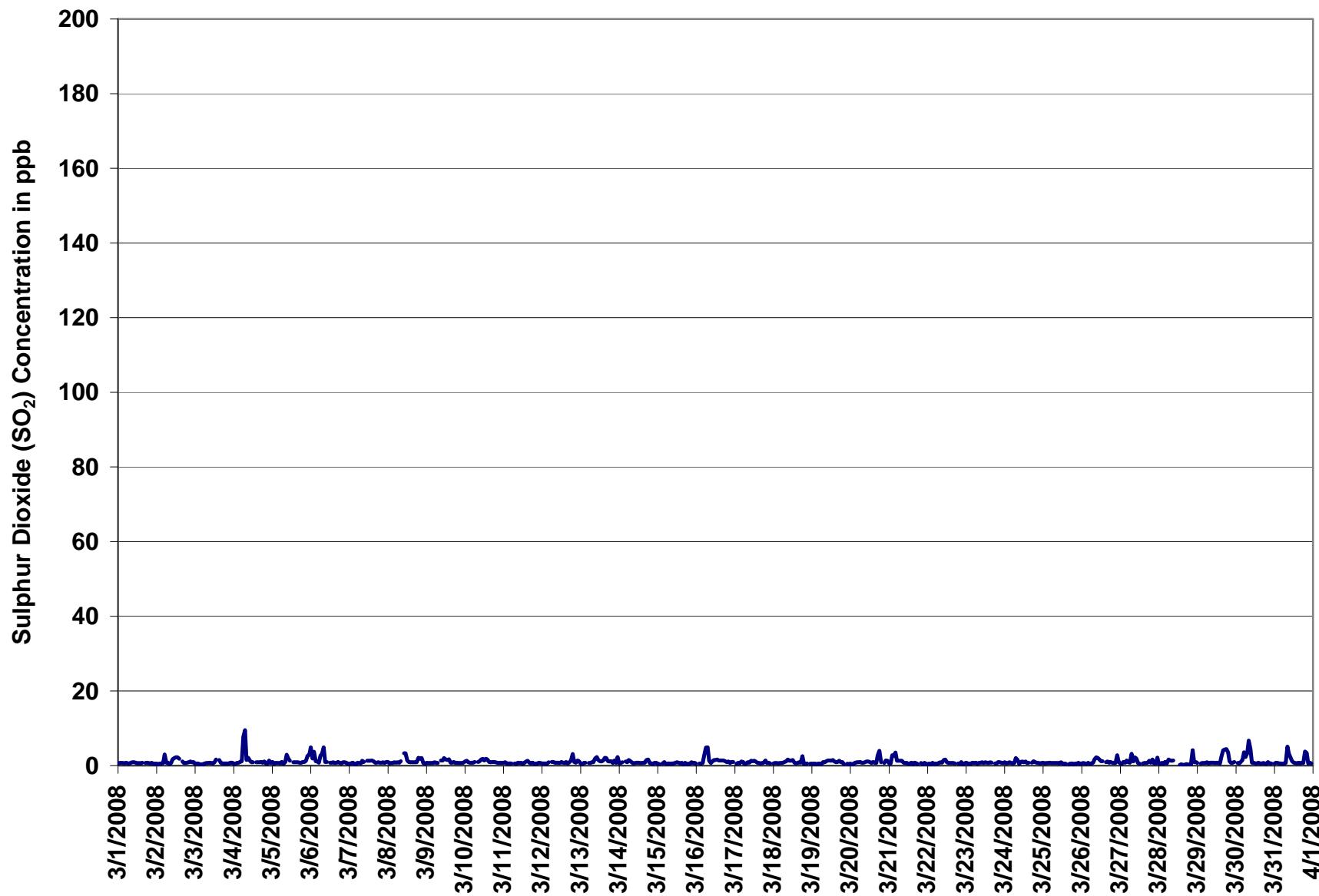
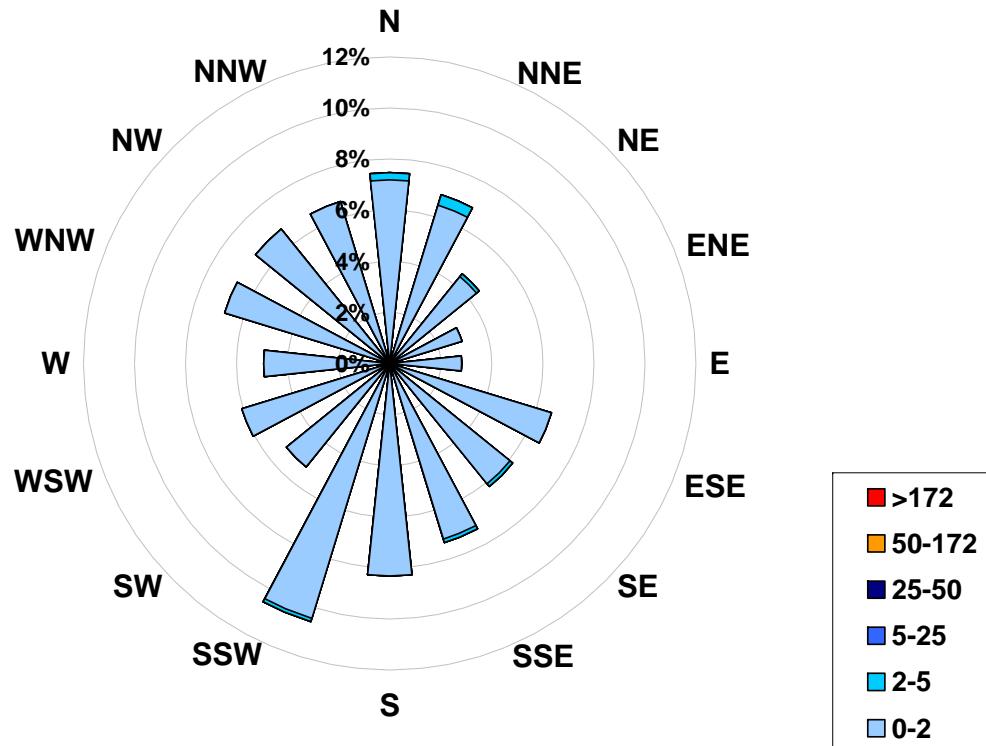


Figure 17. PAS – Brooks Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the
Portable-Brooks Site for March 2008



Calms:	0%
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Frequency Distribution of SO ₂ in ppb		
Range		Frequency (hrs)
0.0	<	2
2	to	5
5	to	25
25	to	50
50	to	172
>	172	0
Total Non-Zero Values		710



PAS – Brooks Ozone Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

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

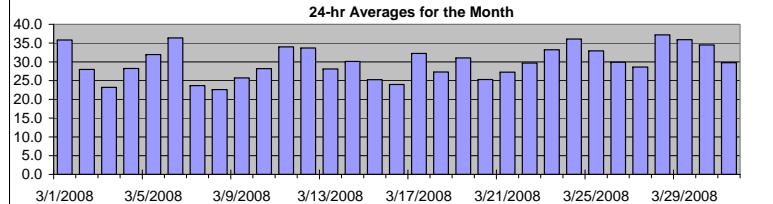
Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	54.4 ppb	19-Mar	16:00 17:00
Maximum 24-hr Average:	37.2 ppb	28-Mar	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	51.5 47.8 40.4 30.7 21.0 8.8 3.9	30.0 ppb	30.7 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Mar-08	37	34	33	28	30	31	31	31	32	32	42	44	45	45	43	41	A	37	45	42	39	34	25	23	35.8	45.1	
2-Mar-08	24	18	25	30	32	31	32	33	34	33	32	32	32	32	31	A	29	26	22	24	22	21	24	25	28.0	34.0	
3-Mar-08	21	19	11	10	11	8	13	18	21	22	31	38	41	39	A	41	34	25	18	18	28	24	20	21	23.2	40.9	
4-Mar-08	17	21	20	21	20	27	23	29	33	32	34	36	37	A	41	41	41	38	32	13	19	24	26	23	28.2	41.3	
5-Mar-08	22	25	27	28	27	21	18	21	27	32	35	36	A	36	42	43	43	36	33	33	37	39	38	37	32.0	43.0	
6-Mar-08	37	39	41	41	40	40	35	32	31	36	39	A	42	42	42	44	44	38	37	33	30	27	25	23	36.4	44.0	
7-Mar-08	18	15	8	9	7	3	5	10	12	20	A	32	37	44	44	46	45	37	30	28	28	24	16	26	23.6	46.3	
8-Mar-08	24	7	10	10	7	8	5	4	10	A	33	34	40	41	44	46	44	38	27	34	21	18	6	11	22.6	45.7	
9-Mar-08	5	4	4	4	8	6	2	7	A	24	32	37	41	47	50	50	48	46	34	33	32	28	27	24	25.7	50.2	
10-Mar-08	22	24	24	22	20	17	13	A	9	13	29	41	45	50	48	47	41	36	29	23	23	21	27	25	28.2	50.2	
11-Mar-08	28	26	27	16	20	23	A	23	31	37	41	45	45	50	51	48	41	38	39	36	32	30	29	26	34.0	50.5	
12-Mar-08	20	33	32	28	27	A	21	25	28	28	30	37	41	46	46	46	47	46	41	33	29	28	30	32	33.7	46.7	
13-Mar-08	15	24	19	13	A	10	4	9	21	33	39	39	42	43	44	45	45	42	35	31	26	22	21	25	28.1	44.7	
14-Mar-08	17	13	10	A	9	5	13	13	24	29	37	40	42	45	46	46	46	43	41	39	35	34	35	30	30.1	46.0	
15-Mar-08	26	26	A	18	16	9	9	12	12	16	23	32	39	41	42	42	42	42	42	36	29	27	15	10	25.3	42.4	
16-Mar-08	22	A	14	12	12	24	26	28	29	30	28	30	29	30	31	31	30	24	18	19	20	19	18	24.0	30.6		
17-Mar-08	A	21	36	25	25	16	4	5	8	25	38	40	45	49	49	49	49	49	50	42	32	35	37	28	A	32.2	50.2
18-Mar-08	21	11	11	9	6	2	1	5	10	16	31	37	49	49	48	48	47	45	40	41	39	33	A	29	27.3	48.5	
19-Mar-08	17	20	18	23	24	8	3	9	21	24	40	46	48	52	53	54	54	51	40	38	33	A	20	20	31.0	54.4	
20-Mar-08	20	23	17	9	14	15	13	17	22	23	22	29	36	42	42	42	42	43	37	31	A	14	11	20	25.3	43.2	
21-Mar-08	14	15	13	11	14	12	9	12	17	22	32	40	44	47	44	47	47	46	40	A	30	28	24	21	27.3	46.7	
22-Mar-08	19	21	20	18	12	7	6	11	17	22	31	36	44	47	51	52	51	50	A	38	37	35	30	30	29.7	51.9	
23-Mar-08	27	23	19	18	16	20	19	22	26	31	34	35	41	47	47	48	46	A	43	42	44	40	38	36	33.2	47.7	
24-Mar-08	37	36	35	35	33	24	28	23	35	44	41	41	42	45	46	46	A	45	39	35	33	33	28	36.1	46.0		
25-Mar-08	28	27	24	22	21	17	20	24	34	44	45	45	47	48	48	48	A	47	45	38	29	30	27	21	32.9	47.9	
26-Mar-08	18	16	16	14	10	11	12	12	19	27	37	45	47	48	48	A	49	49	48	44	38	36	34	30	29.9	49.3	
27-Mar-08	26	19	15	14	12	10	5	10	20	23	28	34	40	A	43	46	45	47	44	41	40	38	30	29	28.6	47.1	
28-Mar-08	29	32	28	29	31	28	25	34	34	39	41	39	46	48	52	52	53	51	41	36	36	31	27	30	37.2	52.7	
29-Mar-08	28	A	34	33	35	35	36	37	42	45	45	45	46	47	46	43	43	41	39	33	24	21	22	25	35.9	47.0	
30-Mar-08	A	16	16	21	19	23	31	35	37	38	37	39	43	45	44	43	44	41	38	38	37	38	35	A	34.5	45.3	
31-Mar-08	30	32	35	21	20	18	14	16	25	39	42	42	44	C	C	A	40	39	36	30	29	24	20	20	29.7	43.9	

HOURLY AVERAGE TABLE

Ozone (O₃)



Status Flag Characters

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

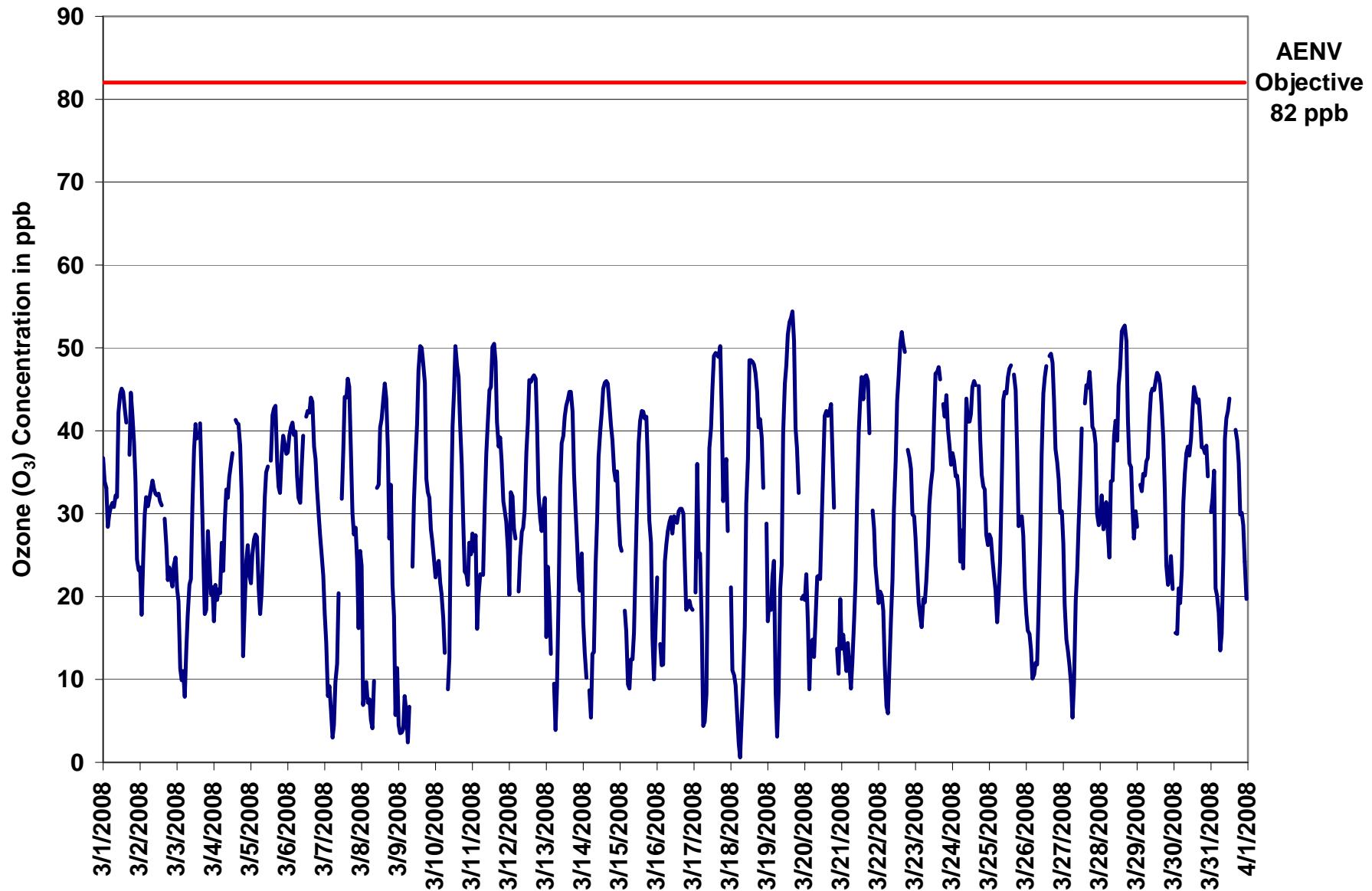


Figure 18. PAS – Brooks Ozone 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

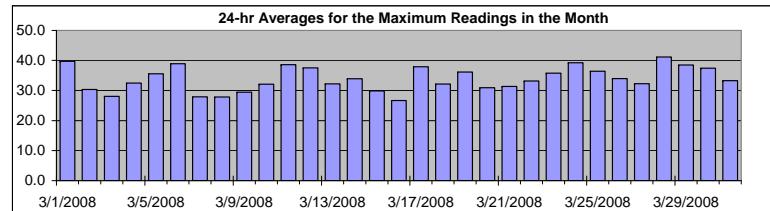
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	59.3 ppb	11-Mar	15:00 16:00
Maximum 24-hr Value:	41.1 ppb	28-Mar	

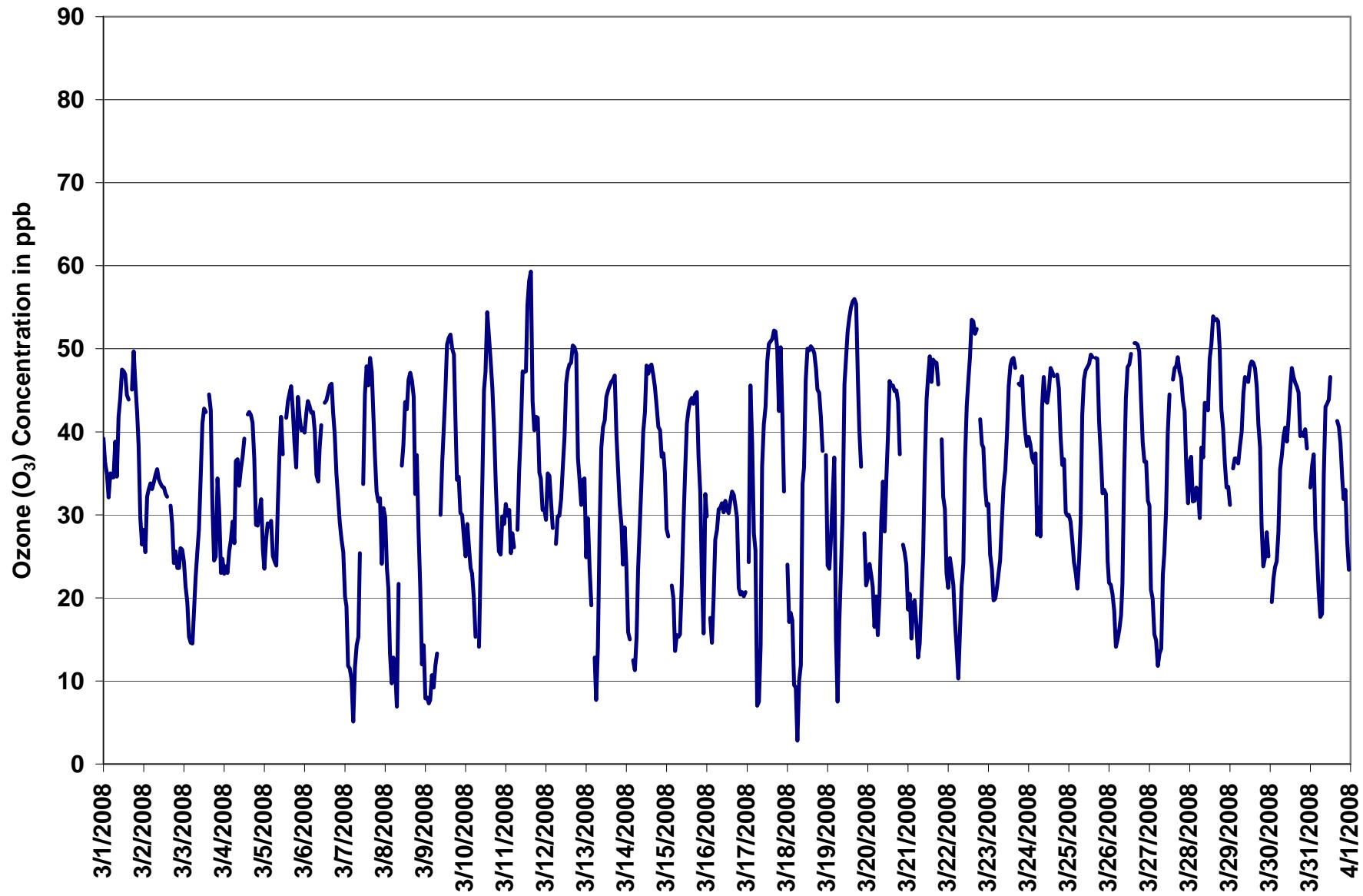


Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Mar-08	39	36	35	32	35	35	35	39	35	42	44	48	47	47	44	44	A	45	50	46	42	38	30	26	39.7	49.7
2-Mar-08	28	26	32	33	34	33	34	35	36	34	34	33	33	33	32	A	31	29	24	26	24	26	26	30.4	35.5	
3-Mar-08	24	21	20	15	15	15	18	23	26	28	35	41	43	42	A	45	43	31	25	25	34	30	23	25	28.1	44.5
4-Mar-08	23	24	23	26	27	29	27	37	37	34	36	37	39	A	42	42	42	41	37	29	29	30	32	26	32.5	42.4
5-Mar-08	24	27	29	29	29	25	24	24	31	37	42	37	A	42	44	45	46	43	39	36	44	42	40	40	35.5	45.5
6-Mar-08	40	42	44	43	42	42	40	35	34	38	41	A	44	44	45	46	46	42	40	35	32	29	27	26	38.9	45.8
7-Mar-08	20	19	12	12	10	5	12	14	15	25	A	34	45	48	46	49	47	42	37	33	32	32	24	31	27.9	48.9
8-Mar-08	30	24	21	13	10	13	11	7	22	A	36	38	44	43	46	47	46	44	33	37	28	21	12	14	27.8	47.1
9-Mar-08	8	8	7	8	11	9	12	13	A	30	36	40	45	51	51	52	50	49	41	34	35	30	30	27	29.4	51.7
10-Mar-08	25	29	26	24	23	20	15	A	14	25	35	45	47	54	52	49	45	40	34	29	26	25	30	29	32.1	54.4
11-Mar-08	31	30	31	25	28	26	A	28	35	40	47	47	47	55	58	59	44	40	42	42	35	34	31	31	38.6	59.3
12-Mar-08	29	35	35	31	28	A	27	30	30	32	36	40	46	47	48	48	50	50	49	37	34	31	34	34	37.5	50.4
13-Mar-08	25	30	24	19	A	13	8	14	28	38	41	41	44	45	46	46	46	47	40	35	31	29	24	29	32.2	46.8
14-Mar-08	24	16	15	A	13	11	15	23	29	34	40	42	48	47	48	48	47	45	43	41	40	37	37	35	33.9	48.1
15-Mar-08	28	27	A	22	20	14	16	15	16	22	29	35	41	43	44	44	43	45	45	37	33	23	16	33	29.9	44.8
16-Mar-08	30	A	18	15	20	27	28	31	31	30	32	31	30	32	32	33	32	31	30	21	20	21	20	21	26.7	32.8
17-Mar-08	A	24	46	39	28	26	7	8	14	36	41	43	49	51	51	51	52	52	50	43	50	42	33	A	37.9	52.2
18-Mar-08	24	17	18	17	10	9	3	10	12	34	36	46	50	50	50	50	50	48	45	45	42	38	A	32.2	50.3	
19-Mar-08	24	24	27	32	37	15	8	17	24	31	46	49	52	54	55	56	56	55	46	40	36	A	28	22	36.1	56.0
20-Mar-08	22	24	23	21	17	20	16	20	29	34	28	35	39	46	46	46	45	45	44	37	A	26	26	24	30.9	46.1
21-Mar-08	19	21	15	19	20	17	13	15	20	25	36	44	47	49	46	49	48	48	46	A	39	32	31	23	31.3	49.1
22-Mar-08	21	25	23	22	17	14	10	16	21	24	37	43	47	49	54	53	52	52	A	42	39	38	33	31	33.1	53.5
23-Mar-08	31	25	24	20	20	21	23	25	29	33	35	40	46	48	49	49	48	A	46	46	47	42	40	38	35.8	48.9
24-Mar-08	39	39	37	36	37	28	31	27	43	47	44	44	45	48	47	47	A	47	45	39	36	37	30	30	39.2	47.7
25-Mar-08	30	29	27	24	23	21	25	29	42	46	47	48	48	49	49	A	49	49	41	37	33	33	33	36.4	49.3	
26-Mar-08	22	22	21	19	14	15	16	18	22	35	44	48	48	49	A	51	51	51	50	44	39	36	36	32	33.9	50.7
27-Mar-08	31	21	20	16	15	12	13	14	23	25	31	40	45	A	46	48	48	49	47	47	44	43	36	31	32.3	49.0
28-Mar-08	37	37	32	32	33	33	30	38	37	44	43	43	49	51	54	53	54	53	50	43	40	36	33	33	41.1	53.9
29-Mar-08	31	A	36	37	37	36	38	40	45	47	46	46	48	49	48	48	45	45	41	38	29	24	25	28	38.5	48.5
30-Mar-08	A	20	22	24	24	28	36	37	40	41	39	41	45	48	47	46	45	45	40	40	40	40	38	A	37.4	47.7
31-Mar-08	33	36	37	28	25	21	18	18	35	43	43	44	47	C	C	A	41	41	39	34	32	33	27	23	33.3	46.6
Hourly Avg	27.3	26.1	25.9	24.4	23.4	21.1	20.2	23.3	28.4	34.5	38.6	41.4	44.8	46.8	47.1	47.9	46.3	44.7	41.1	36.9	35.3	32.6	29.5	28.5		
Hourly Max	39.9	42.2	45.6	43.1	42.3	42.4	40.1	40.0	44.6	46.6	47.4	48.7	52.1	55.3	58.2	59.3	56.0	55.4	50.1	46.5	50.2	42.5	40.2	40.4		



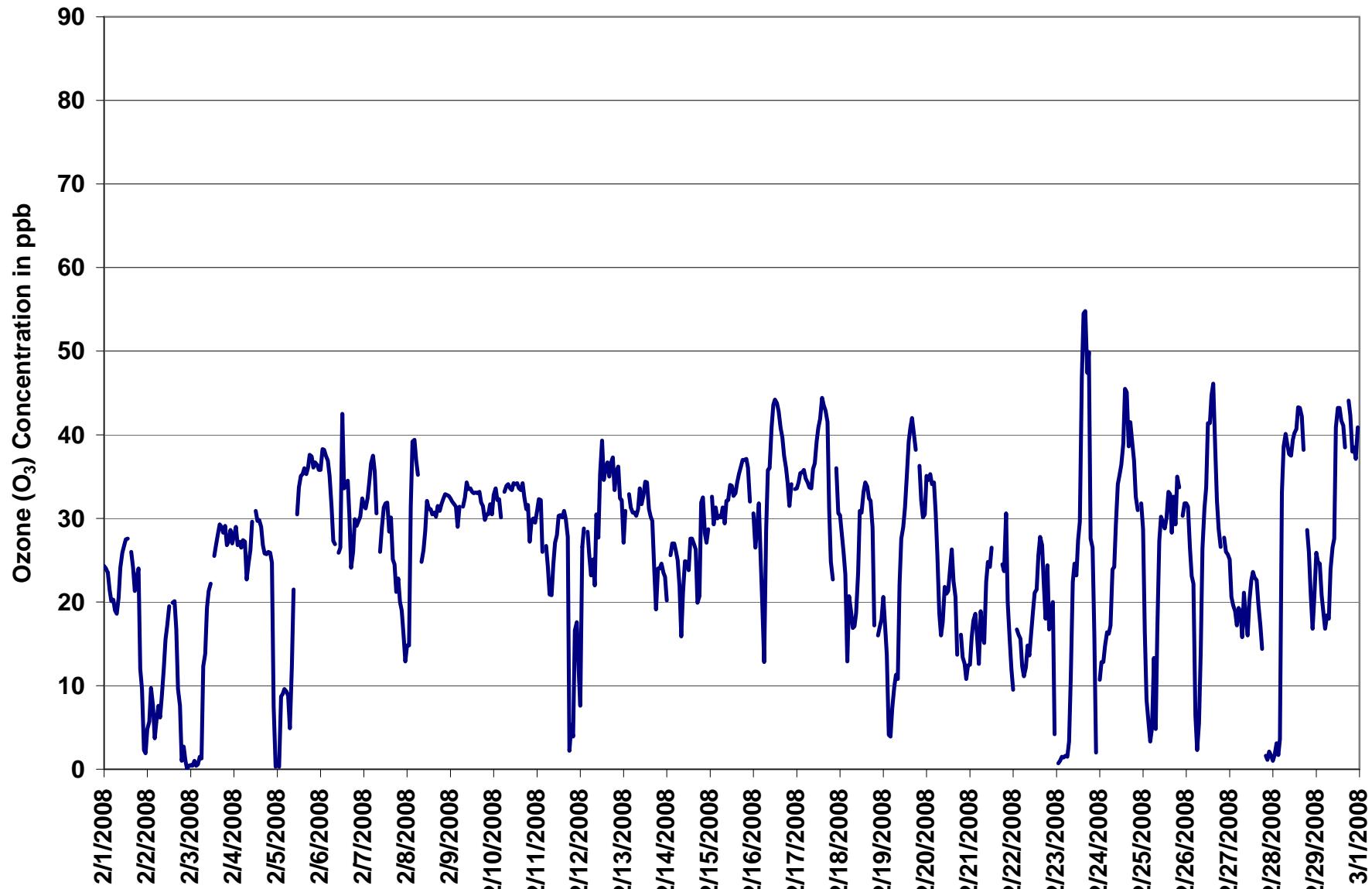
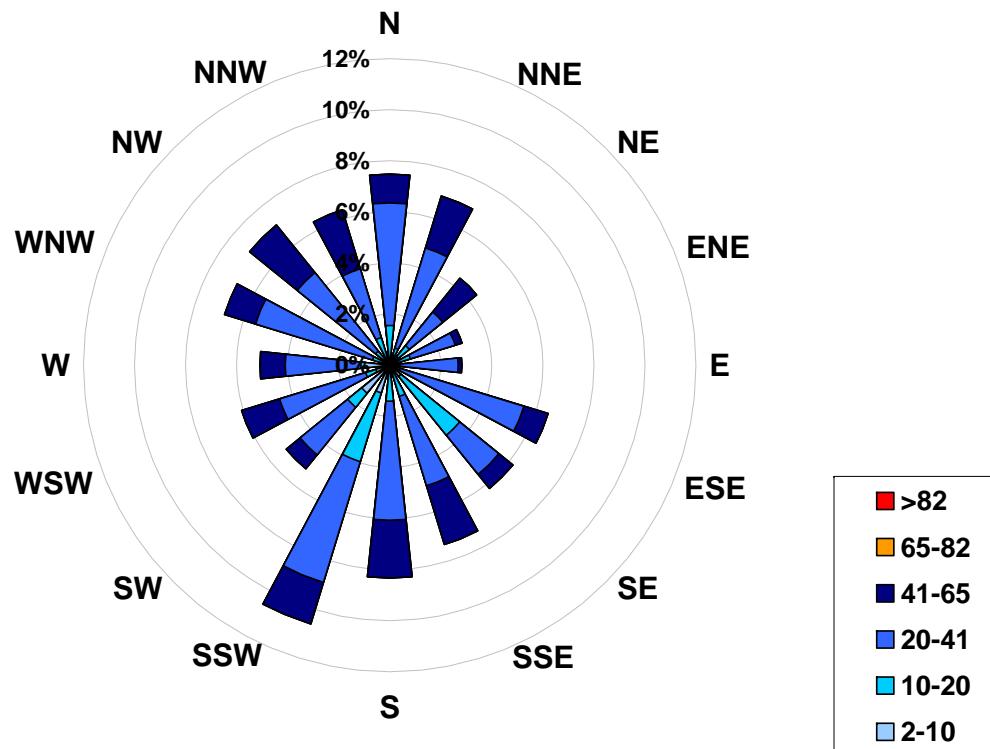


Figure 19. PAS – Brooks Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Brooks Site for March 2008



Calms:	0%
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Frequency Distribution of O ₃ in ppb		
Range	Frequency (hrs)	
2.0 < 10	51	
10 to 20	104	
20 to 41	393	
41 to 65	161	
65 to 82	0	
> 82	0	
Total Non-Zero Values	710	



PAS – Brooks Ozone Eight Hour Average Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

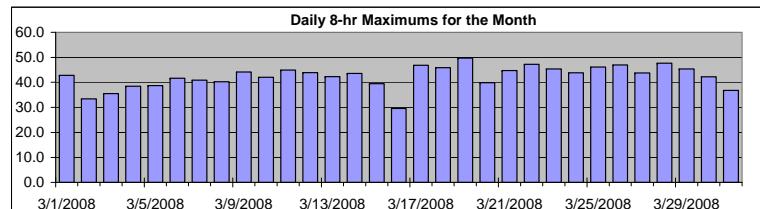
Objective Limit: Alberta Environment: 8-hr 65 ppb
Summary

Number of 8-hr Exceedances: 0

Maximum 8-hr Average: 49.7 ppb 19-Mar 18:00 19:00

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum	
1-Mar-08	36	35	35	34	34	33	33	32	31	31	32	34	36	38	39	41	42	42	43	42	42	42	40	37	35	42.8
2-Mar-08	33	31	29	27	26	26	27	28	29	31	32	32	32	33	32	32	32	32	31	29	28	27	25	24	24	33.4
3-Mar-08	23	22	21	19	18	16	15	14	14	14	17	20	24	28	30	33	35	36	34	31	29	27	26	24	24	35.5
4-Mar-08	21	21	21	22	21	21	21	22	24	26	27	29	31	32	35	36	38	38	38	35	32	31	29	27	27	38.4
5-Mar-08	25	23	22	24	25	25	24	23	24	25	26	27	27	29	33	36	38	39	38	38	38	38	38	37	38.7	
6-Mar-08	36	37	38	39	39	39	39	38	37	37	37	36	36	37	38	40	41	42	41	40	39	37	35	32	41.6	
7-Mar-08	29	26	22	19	16	13	11	9	8	9	9	13	17	23	28	34	38	41	40	39	38	35	32	29	40.9	
8-Mar-08	27	23	20	18	15	13	12	9	7	8	11	14	19	24	29	35	40	40	39	39	37	34	29	25	40.3	
9-Mar-08	20	16	13	9	7	6	5	5	5	8	12	16	21	27	34	40	41	44	44	44	43	40	37	34	44.1	
10-Mar-08	31	28	27	25	24	23	21	20	18	17	18	20	24	29	33	35	39	42	42	40	37	33	31	28	42.0	
11-Mar-08	26	25	25	24	24	24	24	23	24	25	27	31	35	39	40	44	45	45	45	44	42	39	37	34	44.9	
12-Mar-08	31	31	30	29	28	28	27	27	28	27	27	28	30	32	35	38	40	43	44	43	42	40	38	36	43.8	
13-Mar-08	32	29	26	24	23	20	17	13	14	16	18	22	25	29	34	38	41	42	42	41	39	36	33	31	42.3	
14-Mar-08	27	24	21	19	17	14	13	12	13	15	19	21	25	30	35	39	41	43	44	43	41	40	38	43.6		
15-Mar-08	35	33	32	29	26	23	19	17	15	13	15	16	19	23	27	31	35	38	39	39	38	34	30	27	39.5	
16-Mar-08	25	22	19	17	15	16	18	20	21	22	24	26	28	29	29	30	30	29	28	26	25	24	22	29.6		
17-Mar-08	21	20	21	22	23	23	21	19	18	18	18	20	23	27	32	38	43	46	47	46	44	43	40	39	46.8	
18-Mar-08	35	29	25	22	18	13	9	8	7	8	10	14	19	25	31	36	41	44	45	46	45	43	42	39	45.9	
19-Mar-08	35	31	28	26	23	20	18	15	16	16	19	22	25	30	36	42	46	50	50	49	47	46	41	37	49.7	
20-Mar-08	32	28	24	20	17	17	16	16	16	16	17	19	22	25	29	32	35	37	39	39	40	36	31	28	39.9	
21-Mar-08	24	20	17	14	14	14	13	13	14	16	20	23	28	32	36	40	43	44	45	43	40	37	34	44.7		
22-Mar-08	30	26	23	23	20	18	16	14	14	14	15	18	22	27	32	37	42	45	47	47	46	45	42	39	47.2	
23-Mar-08	35	31	30	27	25	23	22	21	20	21	23	25	29	32	35	39	41	43	44	45	45	44	43	41	45.3	
24-Mar-08	40	40	39	38	36	34	33	31	31	32	33	34	35	37	37	40	42	44	44	43	43	41	37	34	43.8	
25-Mar-08	33	31	29	28	26	24	23	23	24	26	28	31	34	38	42	44	46	46	45	43	40	38	35	33	46.1	
26-Mar-08	30	26	23	21	19	17	15	13	14	15	18	21	26	31	33	39	43	46	47	46	45	43	41	39	47.0	
27-Mar-08	36	32	29	26	23	19	16	14	13	13	15	18	21	23	28	33	37	41	43	44	44	43	41	39	43.7	
28-Mar-08	37	35	33	32	31	30	29	30	30	31	33	34	36	38	42	44	46	48	48	47	46	44	41	38	47.6	
29-Mar-08	35	33	32	31	31	32	33	34	36	37	38	40	41	43	44	45	45	45	43	40	37	34	32	29	45.3	
30-Mar-08	26	23	21	20	20	20	21	23	25	28	30	33	35	38	40	41	42	42	42	41	41	39	39	39	42.2	
31-Mar-08	37	35	35	33	30	27	24	23	23	24	27	30	32	N	N	N	N	N	N	N	N	33	31	31	36.8	

Hourly Max 40.2 39.7 38.6 38.8 39.1 39.2 38.7 38.0 37.3 36.8 38.3 39.8 41.2 42.8 44.0 45.2 46.2 49.6 49.7 48.7 46.8 46.1 43.1 41.4



PAS – Brooks Hydrogen Sulphide Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Objective Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

Summary
Number of 1-hr Exceedances: 0
Number of 24-hr Exceedances: 0
Maximum 1-hr Average: 6.5 ppb 19-Mar 6:00 7:00
Maximum 24-hr Value: 0.7 ppb 8-Mar

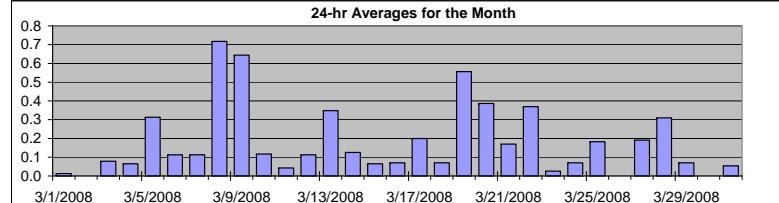
AIC Time:	32 hrs						Operational Time:	710 hrs					
Calibration Time:	2 hrs						AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average			Median		
	3.3	0.5	0.2	0.1	0.0	0.0	0.0	0.2 ppb			0.1 ppb		

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 2:00																										
1-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.2
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.0
3-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	1.0
4-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.3
5-Mar-08	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	3.8
6-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.3
8-Mar-08	0	0	0	0	0	0	3	5	4	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.5
9-Mar-08	0	0	1	4	1	2	3	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.6
10-Mar-08	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
11-Mar-08	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
12-Mar-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
13-Mar-08	0	1	1	1	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
14-Mar-08	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
15-Mar-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
16-Mar-08	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
17-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1
18-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
19-Mar-08	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.6	6.5
20-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	A	1	1	1	0.4	1.0
21-Mar-08	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	1.3
22-Mar-08	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	5.1
23-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.0	0.2
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.2
25-Mar-08	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.9
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.0
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.4
28-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	1	0	0	0	0	0	0	0.3	0.5
29-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
30-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
31-Mar-08	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0

HOURLY AVERAGE TABLE

Hydrogen Sulphide (H₂S)



Status Flag Characters

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

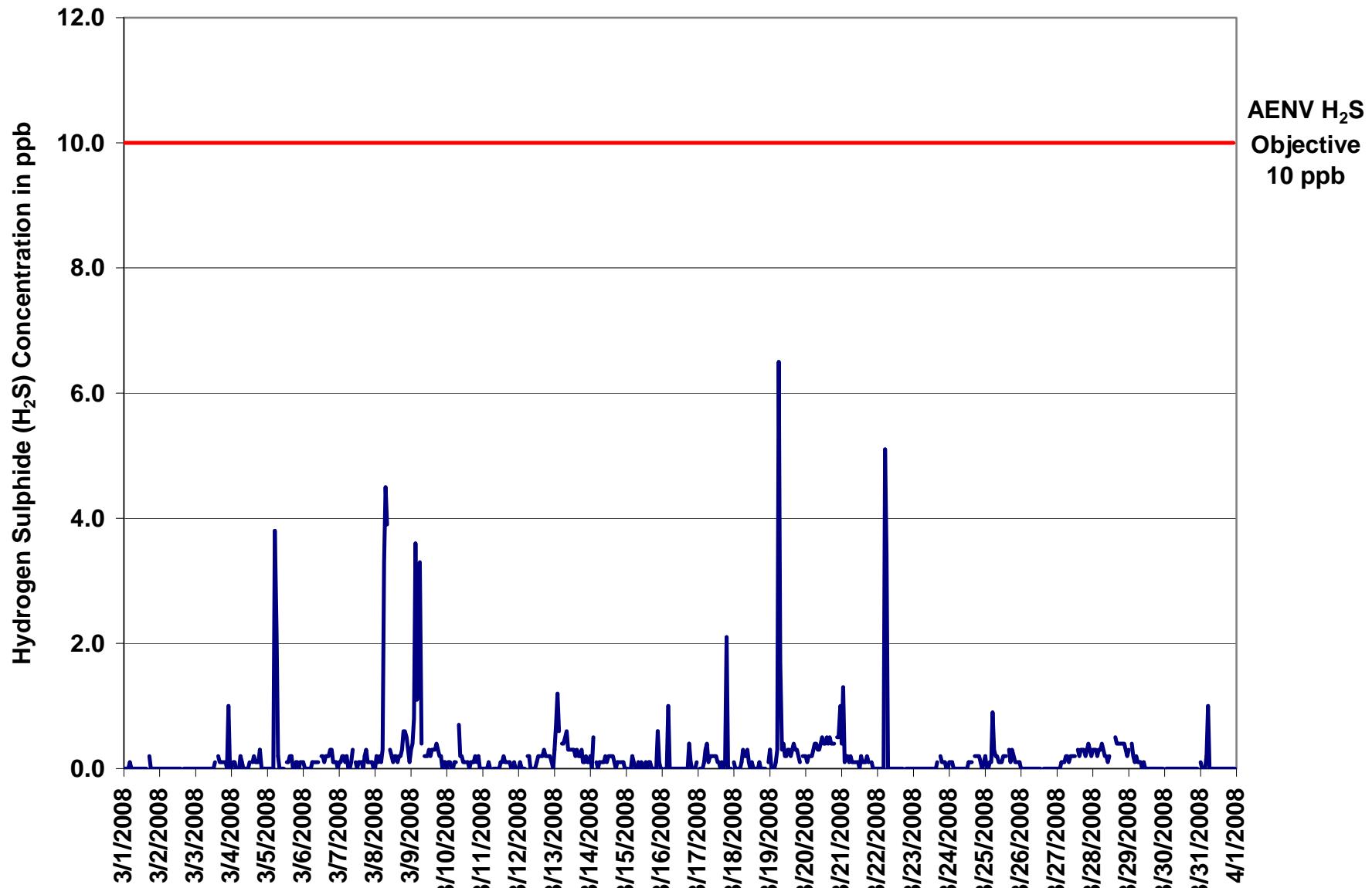


Figure 20. PAS – Brooks Hydrogen Sulphide 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

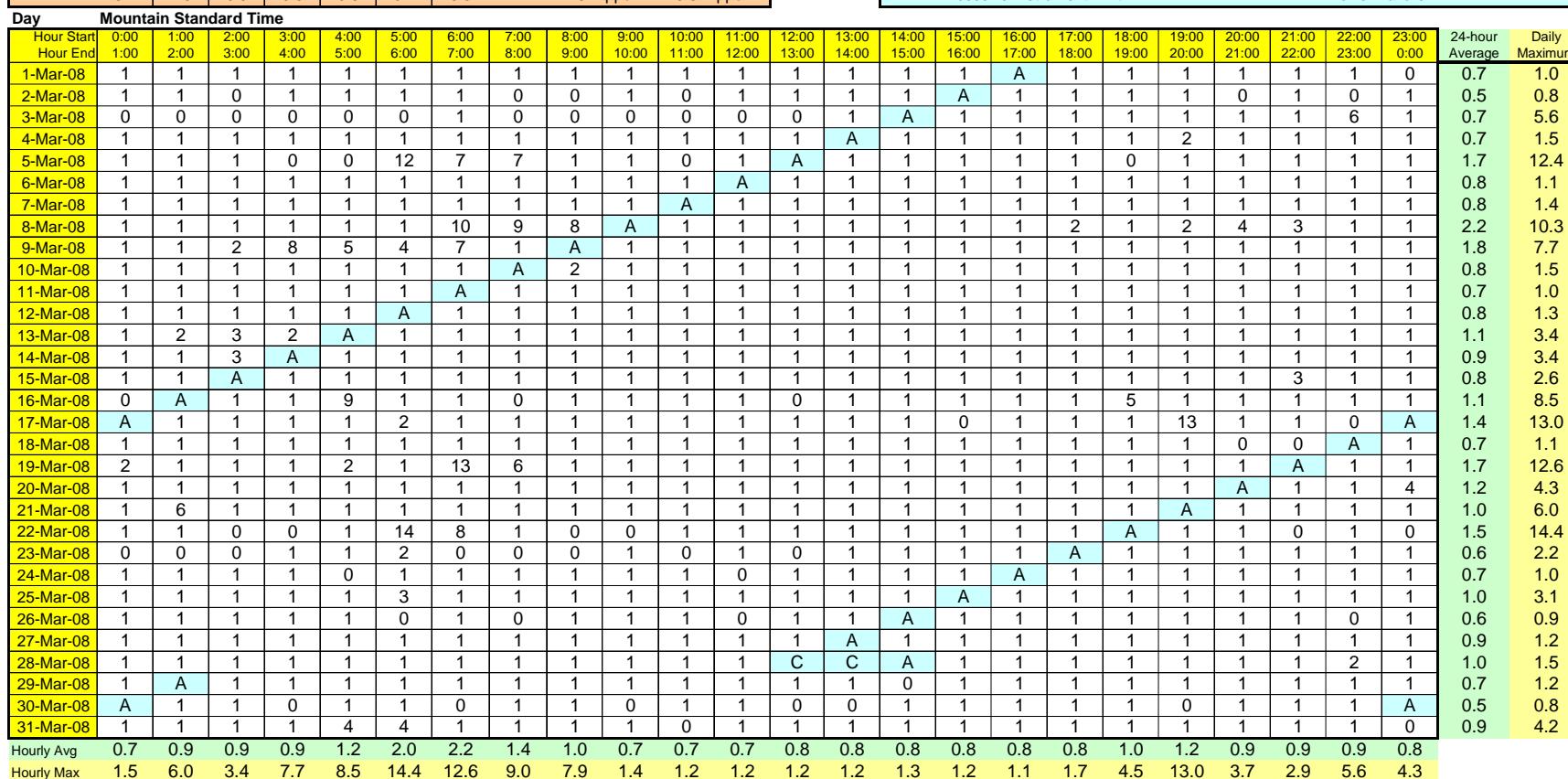
Hydrogen Sulphide (H₂S)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	14.4	ppb	22-Mar	5:00 6:00
Maximum 24-hr Value:	2.2	ppb	8-Mar	

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	8.4 1.5 0.9 0.8 0.6 0.4 0.3	1.0 ppb	0.8 ppb



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

Day	Mountain	Standard	Time	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour	Daily
				Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Average	Maximum
1-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0
2-Mar-08	1	1	0	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	A	1	1	1	1	0	1	1	0.5	0.8	
3-Mar-08	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	1	1	1	1	0.7	5.6		
4-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1	0.7	1.5		
5-Mar-08	1	1	1	0	0	12	7	7	1	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	12.4		
6-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
7-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
8-Mar-08	1	1	1	1	1	1	1	10	9	8	A	1	1	1	1	1	1	1	1	2	1	2	4	3	1	1	2.2	10.3		
9-Mar-08	1	1	2	8	5	4	7	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	7.7	
10-Mar-08	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5	
11-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
12-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
13-Mar-08	1	2	3	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	3.4	
14-Mar-08	1	1	3	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	3.4	
15-Mar-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	2.6	
16-Mar-08	0	A	1	1	9	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	5	1	1	1	1	1	1.1	8.5	
17-Mar-08	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	1	1	0	A	1.4	13.0	
18-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0.7	1.1	
19-Mar-08	2	1	1	1	2	1	13	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.7	12.6	
20-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	4.3		
21-Mar-08	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	6.0	
22-Mar-08	1	1	0	0	1	14	8	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.5	14.4		
23-Mar-08	0	0	0	1	2	0	0	0	1	0	1	0	1	0	1	1	1	1	A	1	1	1	1	1	1	1	0.6	2.2		
24-Mar-08	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0		
25-Mar-08	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.0	3.1	
26-Mar-08	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.6	0.9		
27-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.2		
28-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	1	1	1	1.0	2.1
29-Mar-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.2	
30-Mar-08	A	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.8	
31-Mar-08	1	1	1	1	4	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9	4.2	
Hourly Avg	0.7	0.9	0.9	0.9	1.2	2.0	2.2	1.4	1.0	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8			
Hourly Max	1.5	6.0	3.4	7.7	8.5	14.4	12.6	9.0	7.9	1.4	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.1	1.7	4.5	13.0	3.7	2.9	5.6	4.3					

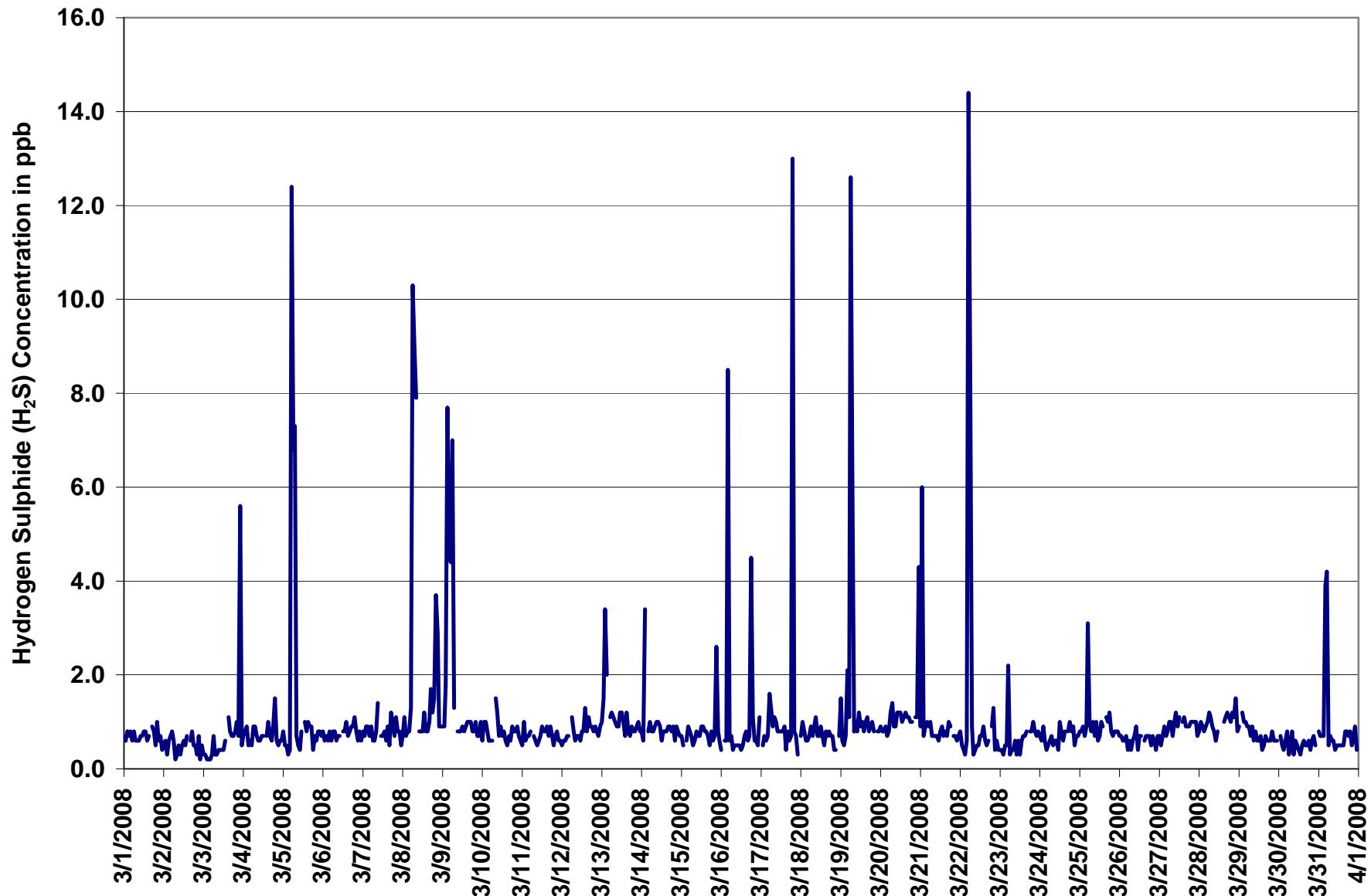
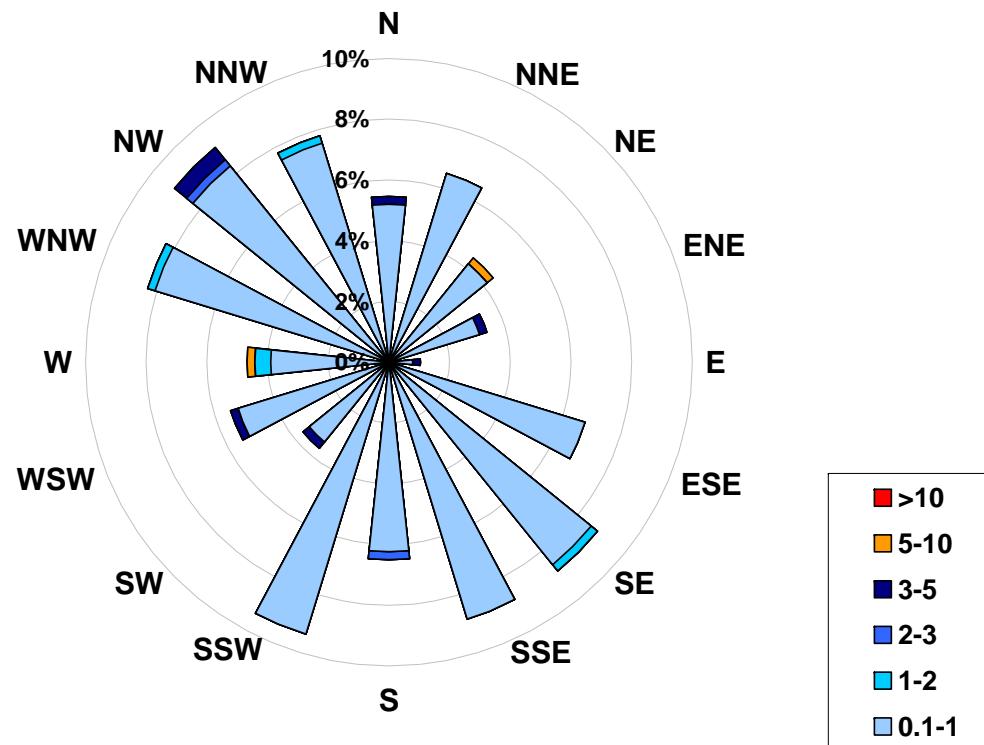


Figure 21. PAS – Brooks Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Portable-Brooks Site for March 2008



Calms:	0%
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Frequency Distribution of H ₂ S in ppb		
Range		Frequency (hrs)
0.1	< 1	690
1	to 2	5
2	to 3	2
3	to 5	7
5	to 10	2
> 10		0
Total Non-Zero Values		710



PAS – Brooks Scalar Wind Speed Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	36.4	km/hr	29-Mar	9:00 10:00
Maximum 24-hr Value:	21.0	km/hr	23-Mar	

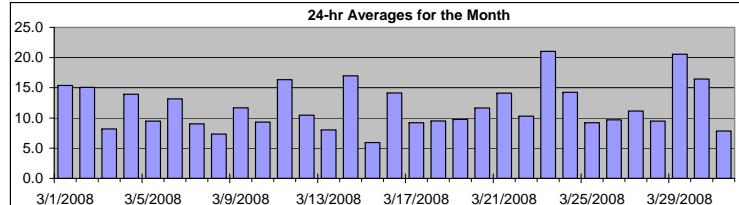
Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile				AverageS
99	95	75	50	25 5 1
29.9	23.3	15.6	10.3	7.3 4.6 3.2
				11.9 km/hr

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00 8:00	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 Max
	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	24:00	0:00		
1-Mar-08	18	22	17	21	18	23	23	22	15	19	21	18	9	6	9	11	10	11	11	14	20	20	12	8	12	15.4	23.4	
2-Mar-08	12	3	11	19	28	26	26	24	19	14	11	9	6	7	7	12	16	13	14	19	18	17	16	17	15.1	27.7		
3-Mar-08	11	11	9	9	10	12	12	12	12	9	8	9	6	6	6	6	7	5	4	5	8	6	6	7	8.2	12.3		
4-Mar-08	9	9	9	13	11	23	34	29	26	22	19	15	14	16	14	10	10	7	2	6	8	9	9	10	13.9	34.0		
5-Mar-08	11	10	9	11	11	7	6	8	8	3	6	8	9	10	13	11	12	11	8	6	13	14	11	14	9.5	14.2		
6-Mar-08	14	9	6	6	7	9	10	9	11	13	12	15	16	18	20	21	20	18	16	15	15	16	15	9	13.2	20.5		
7-Mar-08	10	15	15	14	6	9	10	9	6	7	6	8	13	14	11	12	10	5	6	5	4	7	10	7	9.0	15.3		
8-Mar-08	5	7	8	5	3	4	4	3	4	6	6	8	9	10	10	10	10	9	12	14	8	9	6	6	7.3	14.2		
9-Mar-08	8	5	5	4	4	4	8	10	9	7	7	9	13	17	20	22	19	19	13	16	18	17	16	10	11.7	21.6		
10-Mar-08	9	6	6	5	4	5	4	5	6	10	9	14	16	17	18	13	9	8	11	11	11	10	8	8	9.3	17.9		
11-Mar-08	7	7	7	10	9	11	9	10	18	23	24	25	26	30	33	30	21	14	20	14	11	12	14	9	16.3	33.2		
12-Mar-08	7	11	9	8	7	7	8	12	11	8	10	10	11	12	13	11	12	13	10	11	10	12	13	16	10.5	15.6		
13-Mar-08	8	5	5	4	4	5	4	5	6	8	12	10	9	9	6	6	6	7	8	10	11	11	14	20	8.0	20.1		
14-Mar-08	14	11	10	9	11	14	15	17	19	22	21	22	23	23	23	22	24	19	17	15	14	17	17	11	17.0	23.6		
15-Mar-08	9	9	10	7	6	6	5	5	6	6	8	7	5	6	6	3	3	4	5	6	6	6	5	5	5.9	9.5		
16-Mar-08	7	8	5	4	13	24	24	21	21	18	17	11	8	7	6	7	11	9	13	16	17	22	27	14.1	27.0			
17-Mar-08	21	17	13	5	8	6	6	3	5	8	14	13	11	10	9	10	11	4	7	8	9	9	8	7	9.2	21.0		
18-Mar-08	6	8	6	7	6	5	3	3	4	5	11	14	14	14	17	19	13	14	10	16	15	6	8	4	9.5	18.9		
19-Mar-08	6	7	8	7	6	6	6	6	9	10	8	7	7	9	8	7	7	17	21	18	17	17	15	9.8	20.6			
20-Mar-08	15	16	17	14	13	12	5	7	5	9	6	7	11	13	15	12	12	13	9	12	15	16	15	12	11.7	16.9		
21-Mar-08	10	14	16	17	13	13	14	15	14	11	11	15	14	20	22	22	22	20	10	10	12	7	8	12	14.1	22.1		
22-Mar-08	13	16	8	5	4	5	3	5	8	5	5	5	10	9	10	8	11	9	12	18	23	19	16	20	10.3	23.1		
23-Mar-08	19	17	15	14	15	17	19	22	24	23	25	28	29	28	30	28	19	20	21	23	27	17	17	10	21.0	30.1		
24-Mar-08	15	18	11	10	8	6	8	19	22	18	16	15	17	20	22	22	20	19	13	8	8	10	9	9	14.2	21.7		
25-Mar-08	9	9	9	7	6	5	4	8	9	14	11	11	9	10	8	6	8	8	8	11	11	12	13	14	9.2	14.2		
26-Mar-08	13	13	11	10	8	11	13	12	7	6	5	8	9	7	8	7	7	7	7	10	11	13	14	19	9.7	18.9		
27-Mar-08	18	15	9	11	8	6	7	8	10	8	10	13	15	16	16	19	15	15	13	8	7	10	5	7	11.2	19.3		
28-Mar-08	6	8	8	6	8	5	6	7	5	7	9	9	8	7	7	7	8	11	12	14	18	18	17	16	9.5	18.4		
29-Mar-08	18	19	22	21	21	19	24	27	33	36	36	31	29	23	21	19	20	20	17	11	9	7	4	6	20.6	36.4		
30-Mar-08	10	9	9	6	9	12	15	18	18	19	21	22	23	22	20	19	19	19	24	21	17	16	14	13	16.4	24.2		
31-Mar-08	9	10	12	8	6	6	5	3	9	8	5	4	5	6	5	8	8	10	9	9	12	16	11	4	7.8	15.7		

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Status Flag Characters

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



PAS – Brooks Vector Wind Speed Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	36.3	km/hr	29-Mar	9:00 10:00
Maximum 24-hr Value:	19.7	km/hr	29-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.7	23.1	15.4	9.9	6.6	3.3	1.5	1.2 km/hr

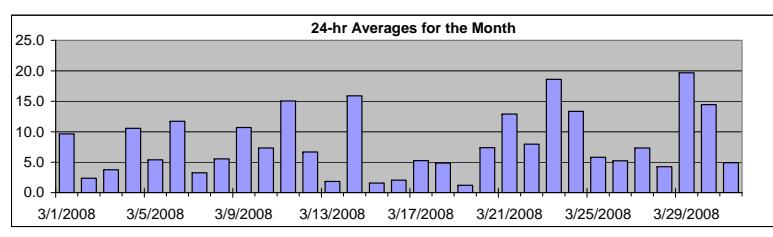
Day Mountain Standard Time

	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-hr Vector Average	Daily Max
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	18	21	16	21	17	23	23	22	15	15	20	18	8	6	8	11	9	11	8	14	20	12	6	11	9.6	23.3
2-Mar-08	12	3	10	19	28	26	26	24	18	14	11	9	5	7	6	12	16	13	14	18	18	17	16	17	2.4	27.6
3-Mar-08	11	11	9	9	10	12	12	12	12	9	8	8	6	3	6	6	7	5	3	4	7	5	6	7	3.8	12.3
4-Mar-08	8	9	9	13	11	23	34	28	26	22	19	14	14	15	14	10	10	7	2	6	8	9	9	10	10.5	33.9
5-Mar-08	11	10	9	11	11	7	5	8	8	1	6	7	8	9	13	11	12	11	7	5	12	14	11	14	5.4	14.2
6-Mar-08	14	8	6	6	7	9	9	9	11	13	12	14	16	18	19	20	19	18	16	15	15	16	15	9	11.7	20.3
7-Mar-08	10	15	15	14	6	9	9	8	6	6	6	8	13	14	11	12	10	5	5	4	3	7	9	6	3.3	15.3
8-Mar-08	5	7	7	5	1	2	2	3	4	6	4	8	9	9	9	10	10	9	12	14	8	9	6	5.5	14.1	
9-Mar-08	8	5	4	4	3	2	8	10	9	7	7	9	13	17	20	22	19	19	13	16	18	17	16	10	10.7	21.5
10-Mar-08	8	6	5	5	4	5	4	5	5	10	9	14	16	17	18	13	9	8	11	11	11	10	8	7.3	17.8	
11-Mar-08	7	7	7	10	9	11	9	9	18	23	24	25	26	30	33	30	20	14	19	13	9	11	14	9	15.1	33.1
12-Mar-08	7	11	9	8	7	7	7	12	10	8	9	9	10	12	12	11	11	12	9	11	10	12	13	16	6.7	15.5
13-Mar-08	6	5	4	4	4	5	4	5	6	8	11	9	7	9	6	5	5	5	8	10	10	11	14	20	1.8	20.0
14-Mar-08	14	11	10	9	11	14	15	17	19	22	20	21	23	23	21	23	19	17	15	14	17	16	11	15.9	23.4	
15-Mar-08	9	9	9	5	5	6	5	4	6	6	7	6	2	2	5	2	2	4	4	5	6	6	4	1.6	9.4	
16-Mar-08	7	8	4	3	12	23	24	24	21	21	17	16	11	8	6	4	5	10	9	13	16	17	22	2.1	26.9	
17-Mar-08	21	17	13	2	8	5	6	1	5	7	14	13	10	9	8	8	9	2	7	8	8	7	7	5.3	20.9	
18-Mar-08	6	6	5	7	6	5	1	2	4	5	11	14	13	13	16	18	12	13	9	16	15	3	6	4.9	18.0	
19-Mar-08	6	7	8	7	6	5	6	6	9	10	7	5	4	6	7	6	5	6	17	21	18	17	17	1.2	20.6	
20-Mar-08	15	16	17	14	13	12	4	4	2	4	3	5	9	12	15	12	11	13	9	12	15	16	11	7.4	16.9	
21-Mar-08	10	13	16	17	13	13	13	15	14	11	11	13	13	18	21	21	21	19	10	10	12	5	7	12	12.9	21.4
22-Mar-08	13	16	6	5	3	4	1	5	8	5	4	1	9	8	8	7	9	8	12	18	23	19	16	8.0	23.1	
23-Mar-08	19	17	15	14	15	17	19	22	24	23	25	27	28	27	30	26	19	19	19	21	23	27	17	17	18.6	30.0
24-Mar-08	15	18	11	10	8	6	8	19	22	17	16	15	17	20	21	22	20	19	13	8	8	10	9	9	13.3	21.6
25-Mar-08	9	9	9	7	6	4	3	7	9	13	11	11	10	8	9	7	5	6	7	11	11	14	12	13	5.8	14.2
26-Mar-08	13	12	11	10	8	11	13	12	6	5	3	7	5	5	5	2	7	7	7	9	11	13	13	19	5.2	18.9
27-Mar-08	18	13	7	11	4	5	7	8	10	7	9	12	14	15	15	18	14	13	12	6	7	3	5	7.3	18.0	
28-Mar-08	3	7	8	6	8	5	6	7	5	6	9	8	7	6	6	7	10	12	14	18	18	17	16	4.3	18.3	
29-Mar-08	18	18	22	21	21	19	24	27	33	36	36	31	29	23	20	19	19	19	20	17	11	9	7	4	19.7	36.3
30-Mar-08	10	9	9	6	9	12	15	18	18	18	21	22	23	21	20	19	18	19	24	21	17	16	14	13	14.4	24.1
31-Mar-08	9	10	12	8	6	6	5	3	9	7	3	3	2	2	3	7	7	9	9	9	12	16	11	4	4.9	15.6

1-hr Vector	3.9	4.1	1.8	1.1	0.9	0.9	1.2	1.0	0.9	2.4	2.7	2.0	2.4	2.4	2.7	2.8	1.7	1.9	2.8	5.0	6.0	4.7	3.4	3.9
Hourly Max	20.9	21.4	22.0	21.1	27.6	25.9	33.9	28.4	32.6	36.3	35.6	30.8	28.7	29.7	33.1	29.6	23.4	20.1	24.1	22.7	26.8	18.7	22.0	26.9

HOURLY AVERAGE TABLE

Wind Speed (WSv)



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



PAS – Brooks Wind Direction Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Summary													

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs									
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%									
Percentile	99	95	75	50	25	5	1	Average					
	357.8	343.7	276.4	192.7	116.5	18.0	2.6		187 deg				

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Mar-08	217	208	209	194	202	202	208	216	240	329	357	343	333	296	258	255	238	253	269	185	203	213	268	348	235	SW
2-Mar-08	22	332	349	8	18	15	8	9	10	359	344	344	288	274	209	182	186	179	175	174	175	170	157	172	22	NNE
3-Mar-08	187	207	212	204	202	206	204	207	206	209	220	249	280	24	111	104	126	124	35	329	352	355	314	2	210	SSW
4-Mar-08	0	9	3	5	4	24	17	6	4	8	2	343	345	343	346	331	334	338	274	236	206	213	233	233	354	N
5-Mar-08	256	277	279	288	296	307	321	31	19	155	208	237	239	300	320	331	340	359	357	350	40	29	32	60	330	NNW
6-Mar-08	75	89	88	96	100	108	134	138	145	175	159	149	168	166	161	158	154	157	156	160	168	168	177	191	151	SSE
7-Mar-08	204	206	210	213	217	225	225	225	230	318	308	337	358	358	330	334	341	314	336	324	0	24	48	69	291	WNW
8-Mar-08	79	212	221	279	101	69	59	245	100	107	167	192	210	184	187	191	185	157	142	163	171	185	190	197	176	S
9-Mar-08	210	211	273	316	344	274	234	216	213	256	242	229	209	201	203	211	213	202	190	193	193	201	211	217	212	SSW
10-Mar-08	241	296	336	312	316	303	316	300	239	203	203	184	183	187	203	212	204	219	210	209	199	210	216	216	215	SW
11-Mar-08	223	223	262	214	214	202	233	237	247	246	249	250	245	246	247	249	274	268	309	254	235	291	296	284	252	WSW
12-Mar-08	246	289	281	270	275	287	250	245	255	262	259	299	311	327	339	331	345	355	355	30	51	37	16	18	320	NW
13-Mar-08	348	300	286	274	276	255	266	262	287	334	354	8	12	24	40	48	80	53	131	126	113	140	128	147	59	ENE
14-Mar-08	142	137	155	146	127	132	134	143	155	171	178	166	152	152	147	155	156	137	115	109	104	114	111	108	142	SE
15-Mar-08	98	114	116	77	27	9	346	357	358	342	343	359	262	298	319	358	108	167	158	122	152	196	209	57	51	NE
16-Mar-08	165	203	208	242	352	359	3	2	2	1	352	352	346	323	335	286	215	201	173	161	169	168	165	165	348	NNW
17-Mar-08	177	192	241	219	234	316	18	284	217	289	313	316	334	320	286	262	268	170	169	178	264	314	301	290	264	W
18-Mar-08	288	231	251	235	229	244	332	22	248	147	172	191	207	216	188	162	159	113	116	107	108	341	39	326	174	S
19-Mar-08	292	338	349	317	311	289	278	276	292	295	317	347	353	341	284	280	327	358	107	110	122	129	126	124	17	NNE
20-Mar-08	117	123	130	128	127	142	162	152	186	17	315	152	53	41	8	8	36	68	96	113	125	130	136	176	107	ESE
21-Mar-08	185	145	135	133	141	139	138	136	162	149	158	164	186	145	111	111	113	102	118	127	127	117	64	122	134	SE
22-Mar-08	121	126	128	53	352	34	1	84	120	161	190	154	184	218	209	224	163	172	157	148	156	170	177	170	158	SSE
23-Mar-08	173	177	186	186	187	174	181	178	182	184	177	174	188	211	207	221	239	236	240	240	244	241	243	264	204	SSW
24-Mar-08	254	252	262	257	276	283	285	313	316	312	297	305	307	312	311	316	315	313	307	316	293	298	301	303	300	WNW
25-Mar-08	300	297	298	291	294	320	338	302	306	320	310	295	285	313	295	294	286	230	195	184	182	193	192	196	271	W
26-Mar-08	205	212	209	211	218	208	207	201	230	303	270	238	204	321	305	264	180	150	124	112	108	115	111	114	186	S
27-Mar-08	122	135	47	31	73	36	17	35	125	127	123	118	128	132	124	143	191	165	29	3	122	108	338	67	110	ESE
28-Mar-08	213	269	321	309	314	302	284	292	268	273	269	309	312	319	325	331	21	47	63	64	70	71	55	65	5	N
29-Mar-08	61	61	42	25	29	18	21	29	29	28	27	21	18	21	13	16	14	27	32	40	55	48	111	115	30	NNE
30-Mar-08	135	136	124	82	68	77	87	85	81	53	36	35	31	35	37	41	35	23	33	32	33	32	24	27	48	NE
31-Mar-08	19	10	15	359	323	337	3	352	72	82	54	37	162	347	105	53	59	90	89	83	91	122	150	127	62	ENE

Hourly Avg 172 190 219 242 322 347 344 323 283 326 306 286 254 278 246 232 208 142 120 140 146 148 149 140



PAS – Brooks Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: March 1, 2008 to April 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Calm Time: 0 hrs 0% calms								Operational Time: 744 hrs							
Calibration Time: 0 hrs								AMD Operational Uptime: 100.0%							
Percentile								99	95	75	50	25	5	1	
								80.9	57.5	21.4	11.5	6.2	3.4	2.3	

Determined by the Yamartino 15-min interval calculation

Status Flag Characters

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

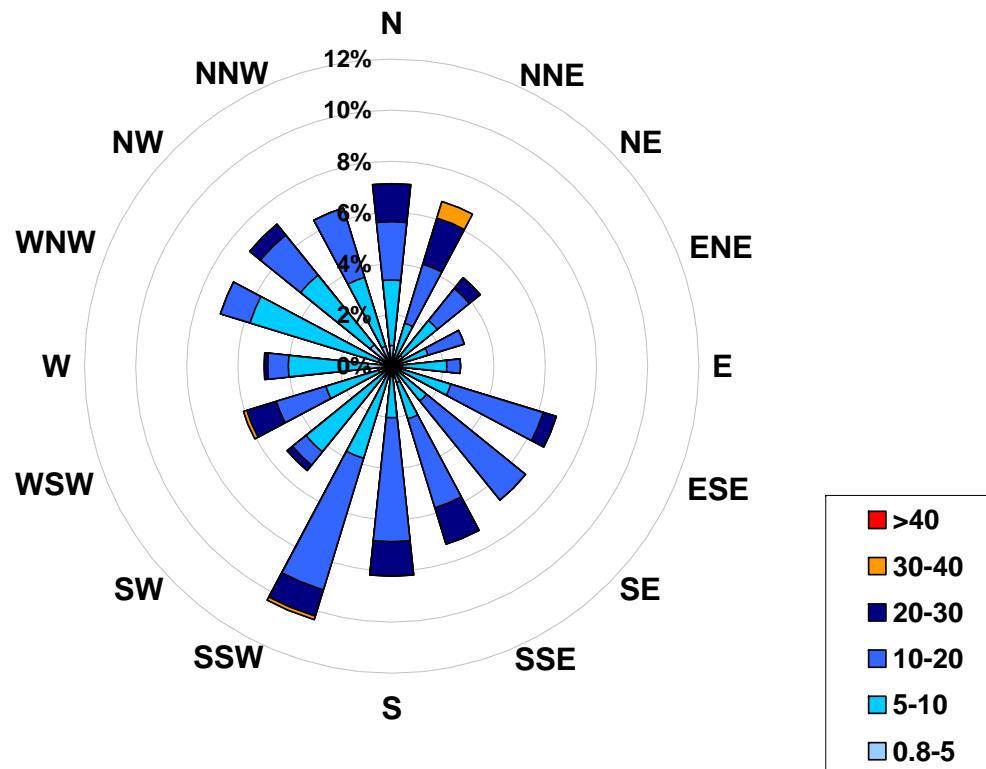
Day Mountain Standard Time

	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	0:00	Daily Maximum
1-Mar-08	14	11	14	3	11	7	4	5	9	39	13	7	11	16	13	7	15	14	40	10	4	5	39	21	39.5		
2-Mar-08	9	27	32	4	5	7	5	5	6	7	13	19	34	22	49	9	5	5	4	2	4	7	2	9	48.6		
3-Mar-08	10	3	6	5	5	3	2	3	4	9	15	19	13	58	18	12	16	17	44	63	32	36	12	15	63.1		
4-Mar-08	6	10	9	4	6	5	4	6	5	6	8	11	11	12	10	14	11	14	50	13	13	13	8	7	49.8		
5-Mar-08	14	12	7	6	6	7	21	17	13	79	14	16	27	17	10	11	11	11	14	33	11	5	7	15	78.9		
6-Mar-08	8	10	12	6	8	5	11	10	12	10	9	10	13	10	9	8	5	3	3	5	4	2	9	9	12.9		
7-Mar-08	6	4	3	5	19	9	17	14	24	22	18	13	14	11	10	9	6	15	20	32	30	9	10	24	32.3		
8-Mar-08	30	12	14	22	87	75	69	27	36	15	50	14	17	15	13	13	7	17	3	9	14	13	28	21	87.2		
9-Mar-08	15	19	15	20	49	63	26	9	28	17	24	14	15	8	6	5	5	5	10	4	5	9	3	4	63.2		
10-Mar-08	13	18	24	17	20	14	23	17	39	7	9	12	8	11	7	13	15	16	7	7	4	3	13	7	38.9		
11-Mar-08	13	19	8	11	8	5	16	14	4	4	6	5	5	6	5	10	7	9	11	27	26	10	3	14	26.5		
12-Mar-08	20	4	9	8	8	13	32	7	8	7	16	12	13	12	18	15	29	26	23	21	9	6	7	9	32.1		
13-Mar-08	35	15	34	24	20	10	11	17	13	17	16	25	44	26	35	45	45	41	9	12	7	14	12	5	45.1		
14-Mar-08	5	6	10	14	9	3	3	8	6	7	8	15	9	10	10	10	7	8	4	3	4	3	3	6	14.6		
15-Mar-08	14	17	10	38	31	9	17	19	11	16	16	37	82	81	41	66	41	10	11	39	21	12	32	93	92.6		
16-Mar-08	28	5	61	43	22	6	5	6	7	8	10	11	15	21	33	54	50	14	16	7	3	2	2	4	60.7		
17-Mar-08	4	12	19	67	17	41	14	69	20	26	7	9	17	34	31	52	36	85	14	24	34	22	23	8	84.8		
18-Mar-08	9	34	54	14	12	10	78	44	30	38	21	14	22	21	17	18	20	18	30	6	6	65	42	33	77.5		
19-Mar-08	20	21	13	11	17	12	15	13	7	6	24	54	65	45	45	43	54	32	6	4	4	4	8	2	64.9		
20-Mar-08	4	4	3	8	7	13	39	74	81	79	73	63	56	22	7	16	22	10	17	7	4	5	12	14	81.0		
21-Mar-08	10	16	5	5	4	8	9	12	5	12	20	25	19	20	10	9	15	13	9	13	12	53	29	3	52.9		
22-Mar-08	2	2	72	41	50	32	70	31	19	27	58	96	29	37	47	40	37	29	6	3	5	3	4	2	95.6		
23-Mar-08	4	3	2	5	3	6	4	4	6	7	7	6	11	10	4	18	9	7	7	4	5	5	31	30.8			
24-Mar-08	17	6	11	11	13	14	12	6	5	5	4	7	7	7	6	4	5	8	10	8	5	4	5	16.5			
25-Mar-08	5	6	5	6	11	28	53	10	14	11	22	22	23	29	28	25	27	46	16	4	5	3	5	7	53.2		
26-Mar-08	3	4	4	4	5	10	2	5	35	33	69	52	69	63	57	83	26	24	21	13	5	6	20	3	82.9		
27-Mar-08	5	30	42	8	65	34	17	23	16	24	21	19	17	16	18	30	25	31	25	38	48	43	48	60	64.5		
28-Mar-08	75	16	13	9	5	11	12	9	15	9	14	21	24	40	33	36	37	19	8	7	4	4	6	8	74.9		
29-Mar-08	4	10	5	3	5	5	3	5	5	5	6	9	8	13	12	12	9	8	6	4	5	11	22	9	21.7		
30-Mar-08	4	7	5	18	14	9	5	5	8	12	4	5	4	9	5	6	5	6	6	4	5	7	4	5	17.7		
31-Mar-08	4	6	6	9	17	20	12	51	15	35	52	66	78	88	74	36	28	12	5	6	12	8	6	26	88.2		

Hourly Max 75 34 72 67 87 75 78 74 81 79 73 96 82 88 74 83 54 85 50 63 48 65 48 93



1-hr Average Wind Rose (in km/hr) Located at the Portable-Brooks Site for March 2008



Calms:	0%
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Frequency Distribution of Wind in km/hr		
Range	Frequency (hrs)	
0.8 < 5	57	
5 to 10	298	
10 to 20	301	
20 to 30	78	
30 to 40	7	
> 40	0	
Total Non-Zero Values	744	



Palliser Airshed Society Passive Monitoring – March 2008



Palliser Airshed Society - Palliser Passive Stations for March 2008
Palliser Passive Monitoring Expansion

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Location Easting	Location Northing	Elevation meter
Duplicates							
7a	Site 7	0.2	41.9	1.6			
7b	Site 7	0.3	46.2	1.6			
17a	Site 17	0.2	41.6	BDL			
17b	Site 17	0.2	27.2	BDL			
1	Site 1	0.2	46.6	0.6	562434	5583139	719
2	Site 2	0.2	28.0	0.5	565416	5616277	
3	Site 3	0.3	39.5	0.4	533794	5675379	779
4	Site 4	0.3	39.8	0.3	554771	5717338	718
5	Site 5	0.3	39.3	0.9	494218	5715862	735
6	Site 6	0.3	36.2	1.1	433039	5673766	818
7	Site 7	0.2	44.1	1.6	400808	5620907	780
8	Site 8	0.5	42.0	1.2	498530	5621839	747
9	Site 9	0.3	43.2	1.4	487701	5591707	763
10	Site 10	0.3	44.6	1.5	478223	5613583	774
11	Site 11 - Brooks	0.4	35.5	4.8	439773	5604548	736
12	Site 12	0.3	35.9	1.9	450287	5587201	726
13	Site 13	0.3	41.6	0.6	464279	5548934	
14	Site 14	0.2	41.5	0.1	493206	5521201	870
15	Site 15	0.2	45.2	0.6	465824	5485742	874
16	Site 16	0.2	48.8	BDL	503827	5446942	903
17	Site 17	0.2	34.4	BDL	557668	5452307	942
18	Site 18 - Christian School Park	0.2	39.1	4.4	526575	5538135	709
19	Site 19 - Monitoring Station	0.4	39.8	5.0	522813	5544137	714
20	Site 20 - Redcliff	0.3	40.7	3.1	517479	5546059	725

BDL = Below Detection Limit

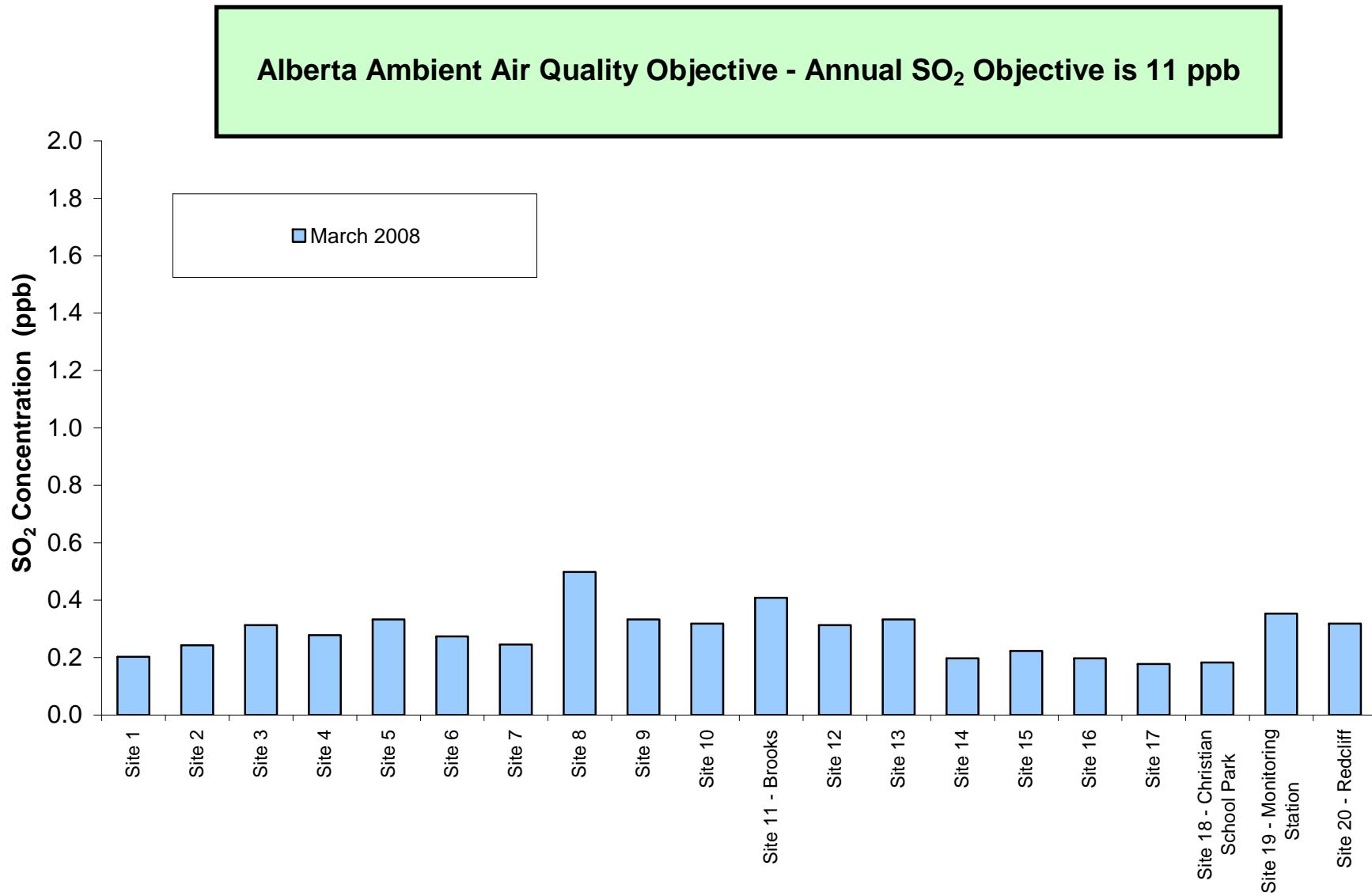


Figure 22. PAS – Sulphur Dioxide Passive Summary Chart

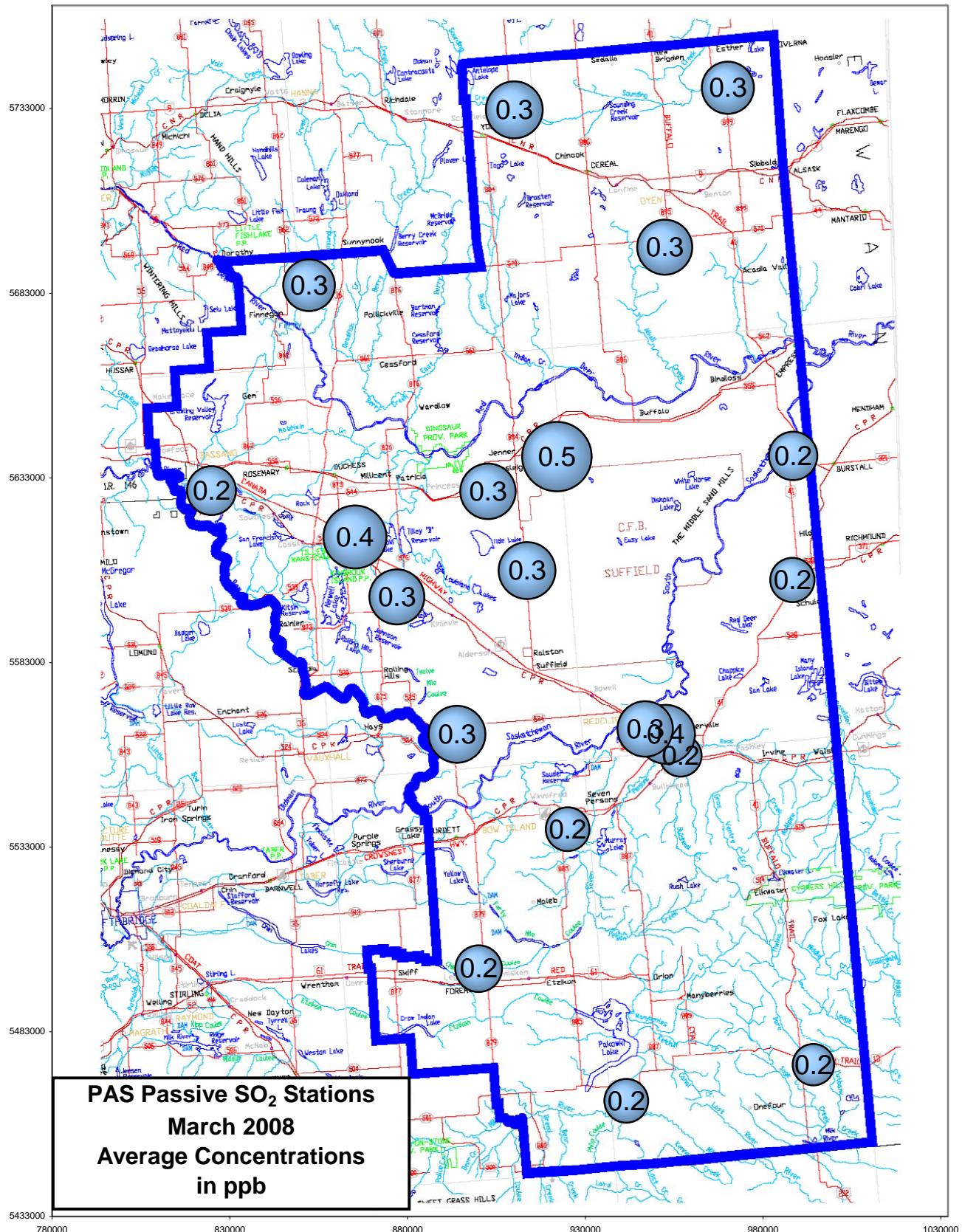


Figure 53. PAS – Sulphur Dioxide Passive Summary Bubble Chart

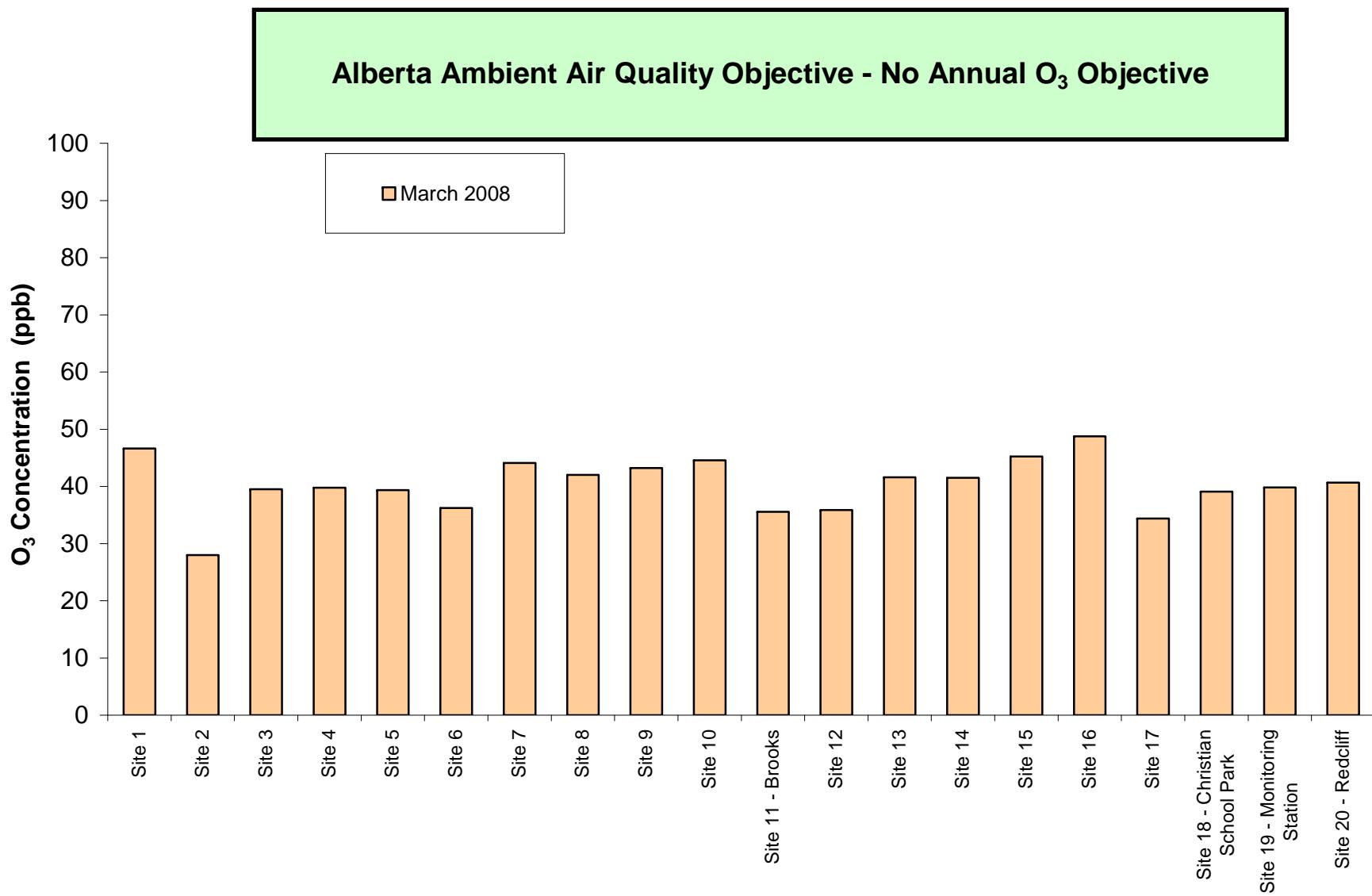


Figure 54. PAS – Ozone Passive Summary Chart

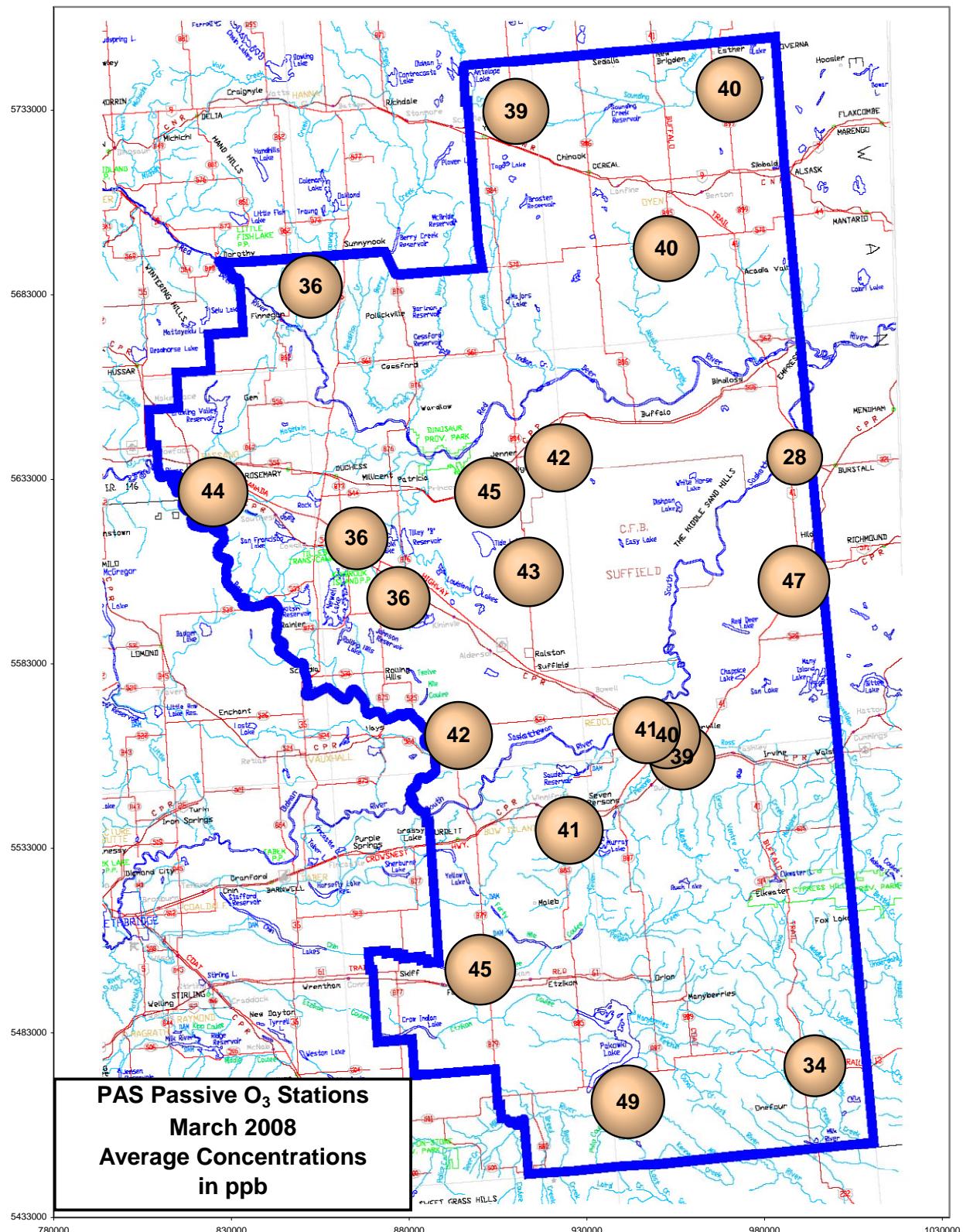


Figure 55. PAS – Ozone Passive Summary Bubble Chart

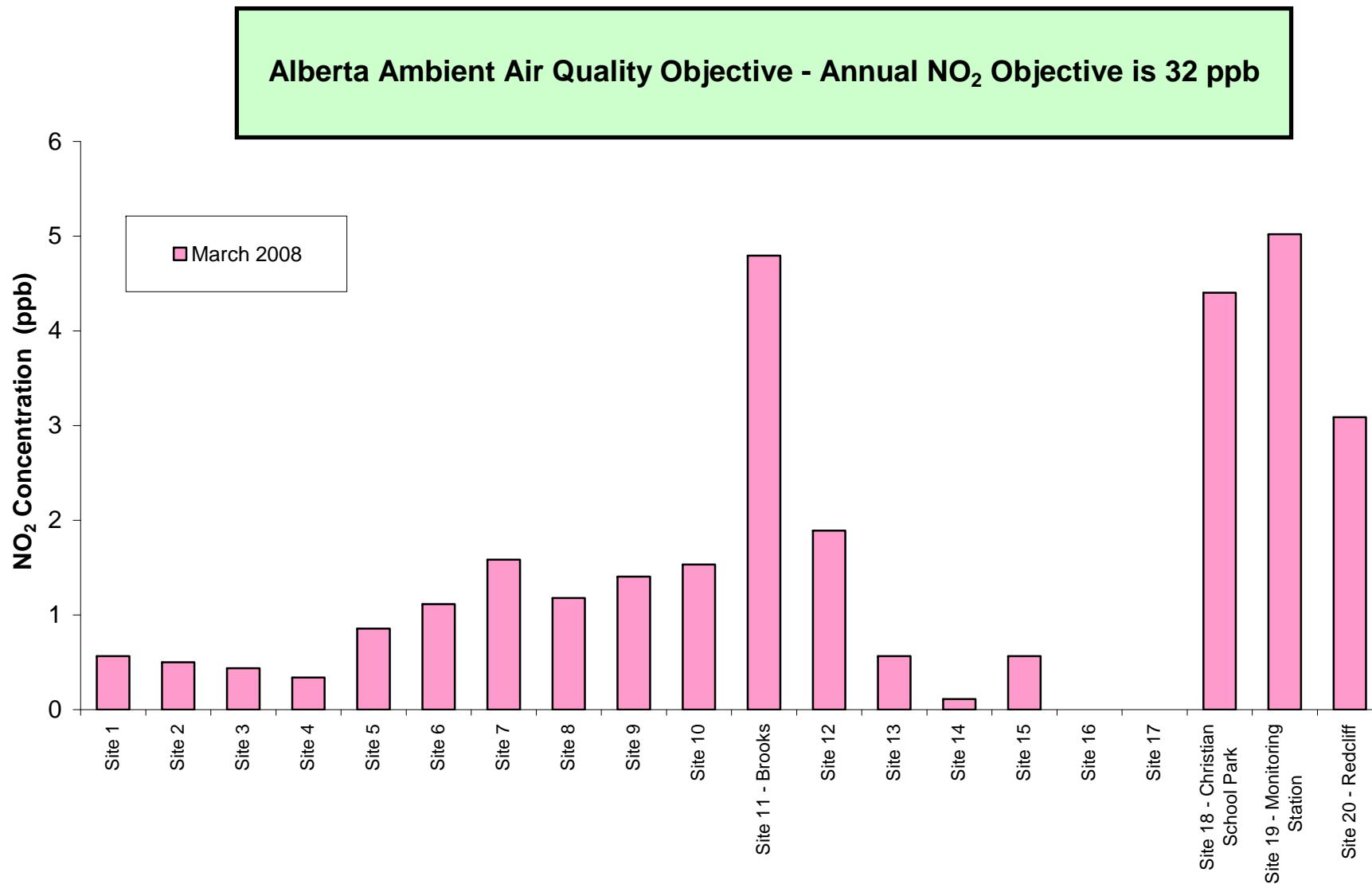


Figure 56. PAS – Nitrogen Dioxide Passive Summary Chart

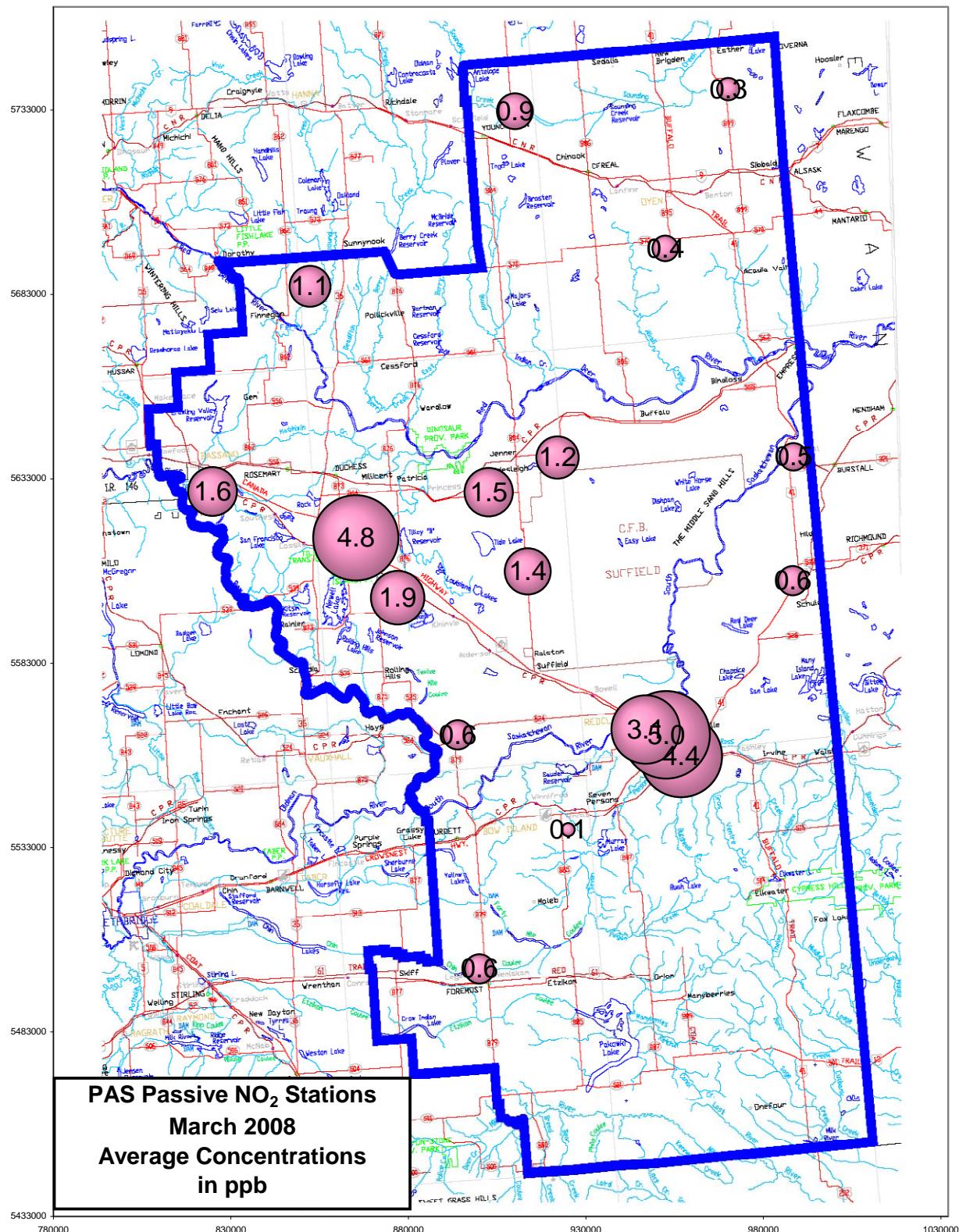


Figure 23. PAS – Nitrogen Dioxide Passive Summary Bubble Chart

Palliser Airshed Society March 2008 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC, CO and PM_{2.5}

Portable-Brooks: O₃, SO₂, and H₂S

Calibration Report



Parameter **O3**
Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	March 31, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Calibration	Removal
			Other:
Start Time (MST)	10:00	End Time (MST)	12:40
Barometric Pressure	27.3 inches Hg	Station Temperature	20.0 Deg C
Calibrator	API700	Serial Number	
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.995967	Calculated slope	0.965994
Calculated intercept	-0.692125	Calculated intercept	0.145275
Analyzer make	TEI 49i	Analyzer serial #	713021144
Concentration range	before	after	
O3 Background	0 - 500 ppb	0 - 500 ppb	
O3 Coeff	0.5 ppb	0.5 ppb	
CellA	1.033	1.004	
CellB	73690 Hz	74419.0 Hz	
Pressure	106923 Hz	105907.0 Hz	
Cell A Flow	698.5 mmHg	692.1 mmHg	
Cell B Flow	723 ccm	725.0 ccm	
Bench	708 ccm	709 ccm	
	34.7 Deg C	29.2 Deg C	

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
5000	0.0	0.0	0.6	N/A
5000	400.0	280.6	291.2	0.9637
5000	300.0	199.2	205.4	0.9699
5000	200.0	117.2	120.3	0.9740
5000	0.0	0.0	0.6	0.0000
5000	400.0	280.6	291.2	0.9637
	Average Correction Factor			0.9692

Calculated value of As Found Response: 288.7 ppm Percent Change of As Found: 2.9%

Auto zero	before calibration		after calibration	
	1.5	ppb	3.4	ppb
	277.8	ppb	149.9	ppb

Notes: No adjustments were done...

Calibration Performed By: Lenin Flores

Calibration Summary

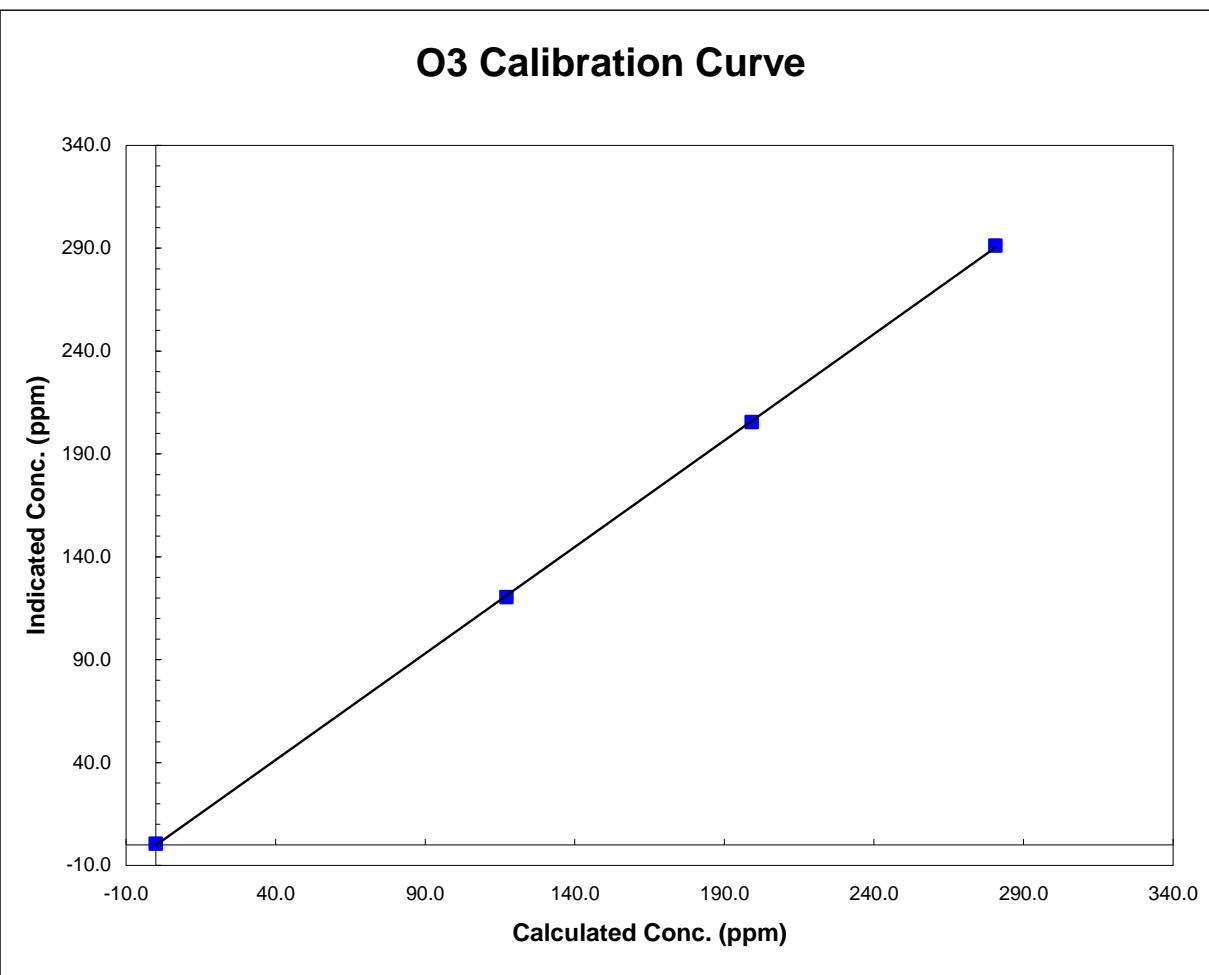


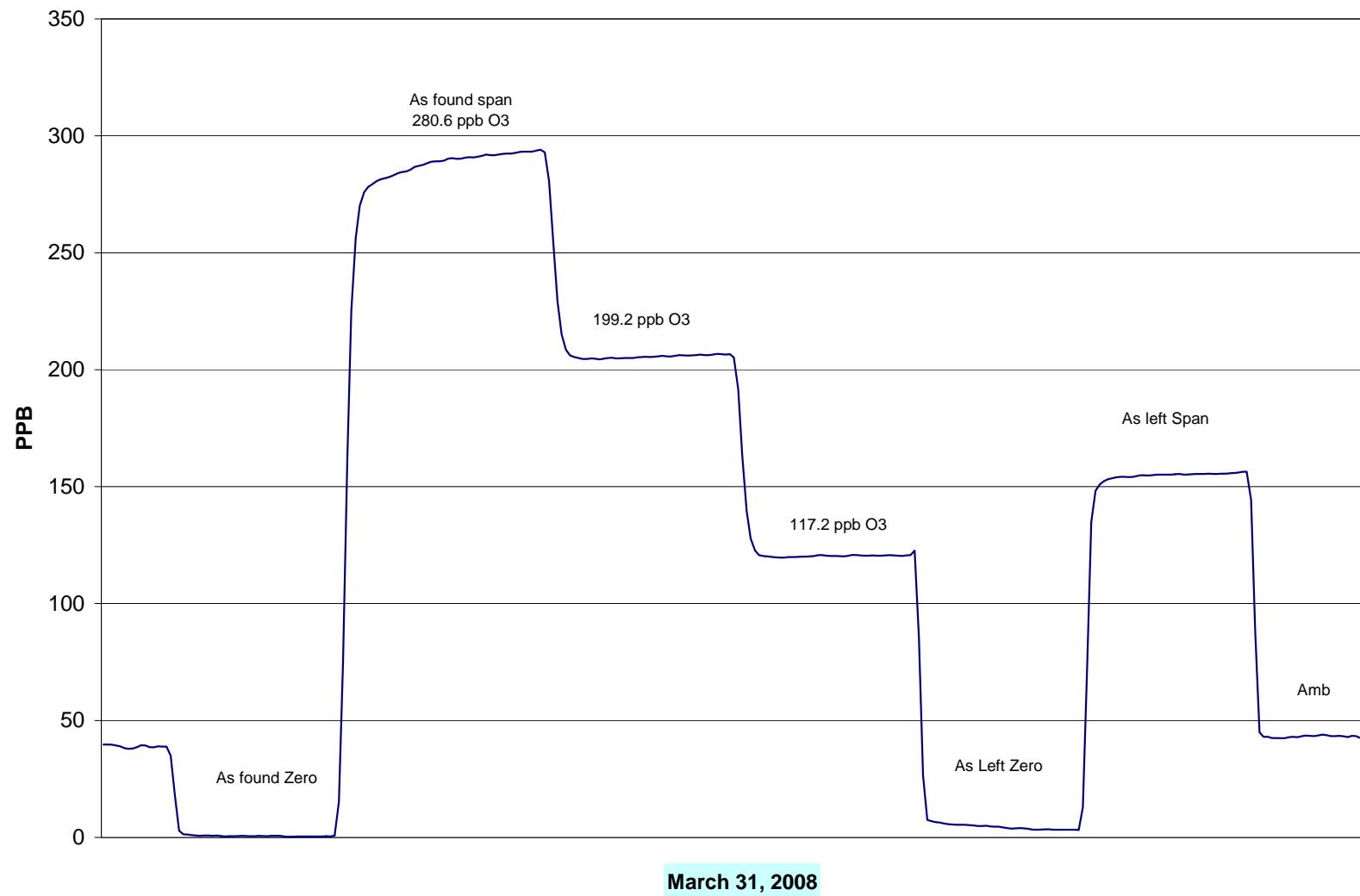
Parameter	O3	Palliser Airshed	FOCUS AIR QUALITY MONITORING
Air Monitoring Network			

Station Information			
Calibration Date	March 31, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	12:40
Analyzer make/model	TEI 49i	Analyzer serial #	713021144

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
280.6	291.2	0.9637		
199.2	205.4	0.9699	Correlation Coefficient	0.999948
117.2	120.3	0.9740		
0.0	0.6	N/A	Slope	0.965994
			Intercept	0.145275



Crescent Heights O₃ Calibration

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Installation	Removal
			Other: _____
Start Time (MST)	15:41	End Time (MST)	21:30
Barometric Pressure	0.912	Atm	20.0 Deg C
Calibrator	API700	Serial Number	
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	January 29, 2008
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-50114

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270
	Parameter	NO2	NOx
Before	Data Slope	0.997913	0.994813
	Data Offset	0.027442	2.083881
After	Data Slope	1.010183	1.007694
	Data Offset	2.145940	0.443072
	Channel #	8	6
	Voltage Range	0 - 10 VDC	0 - 10 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 offset	-9.0	mV	-9.0	mV
NOx offset	-5.5	mV	-5.5	mV
NO slope	1.258		1.237	
NOx slope	1.260		1.227	
R Cell Temp	50.1	Deg C	49.6	Deg C
PMT Temp	7.1	Deg C	7.0	Deg C
Azero	58.7	mV	57.9	mV
IZS Temp	37.1	Deg C	37.1	Deg C
R Cell Press	4.2	in Hg	4.2	in Hg
Sample Press	26.1	in Hg	26.1	in Hg
O3 Flow	75.0	ccm	75.0	ccm
Sample Flow	450.0	ccm	450.0	ccm

Notes: Adjusted Span...

Calibration Report



Parameter NOx-NO-NO₂
Air Monitoring Network Palliser Airshed

Station Information

Calibration Date: March 28, 2008 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	4995	0.00	0.0	0.0	0.0	-1.2	-1.0	-2.2	N/A	N/A
	4995	39.95	388.0	388.0	0.0	383.7	384.2	-2.1	1.0111	1.0096
	4995	19.96	194.6	194.6	0.0	194.5	194.2	-1.6	1.0006	1.0021
	4995	9.99	97.6	97.6	0.0	96.2	96.1	-1.8	1.0143	1.0161
AFZ	4995	0.00	0.0	0.0	0.0	-1.2	-1.0	-2.2	0.0000	0.0000
	4995	39.95	388.0	388.0	0.0	369.8	367.6	0.6	1.0490	1.0555
								Average Correction Factor	1.0087	1.0093

As Found Concentrations: NO_x= 373.1 NO= 371.2 As Found Percent Change NO_x= -3.8% NO= -4.3%

GPT Calibration Data

Dilution Flow 4996 ccm Source Gas Flow 39.93 ccm

O ₃ Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop 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	-1.0	-1.0	0.0	-1.2	-1.0	-2.2	N/A	N/A	N/A	N/A
NO point	384.4	384.4	0.0	386.7	384.4	0.7	0.9940	1.0000	N/A	N/A
300	384.4	103.9	280.6	381.6	103.9	275.5	1.0075	1.0000	1.0185	98.2%
200	384.4	185.3	199.2	382.5	185.3	195.2	1.0050	1.0000	1.0201	98.0%
100	384.4	267.3	117.2	383.1	267.3	113.9	1.0036	1.0000	1.0292	97.2%
						Average Correction Factor	1.0054	1.0000	1.0226	97.8%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO ₂	NO	ppb	NOx	NO ₂	NO	ppb
Auto zero					-0.9	-0.7	-0.4	
Auto span				ppb	288.2	285.3	3.6	ppb

Calibration Performed By: Jorge Lenin Flores

Calibration Summary

Parameter

NO₂

Air Monitoring Network

Palliser Airshed

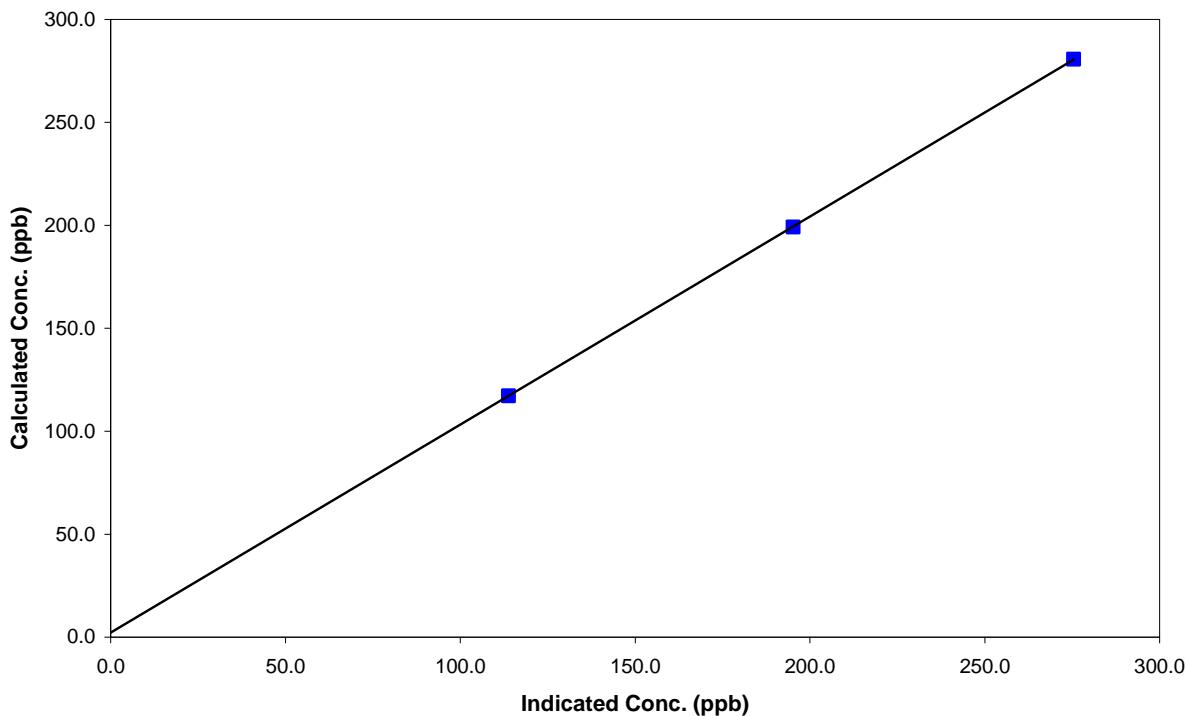
Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:41	End Time (MST)	21:30
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
			Correlation Coefficient	Slope
0.0	-2.2	N/A	0.999998	1.010183
280.6	275.5	1.0185		
199.2	195.2	1.0201		2.145940
117.2	113.9	1.0292		

NO₂ Calibration Curve



Calibration Summary

Parameter **NO_x**
 Air Monitoring Network **Palliser Airshed**



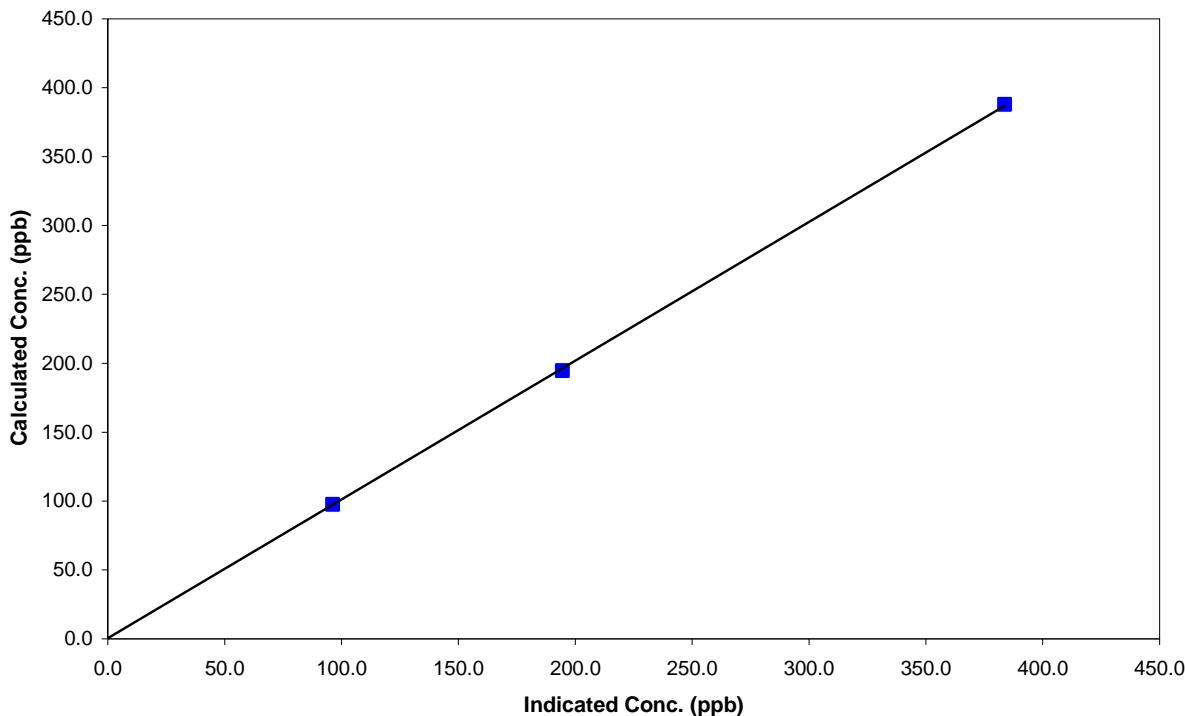
Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:41	End Time (MST)	21:30
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	N/A	Correlation Coefficient	0.999942
388.0	383.7	1.0111		
194.6	194.5	1.0006		
97.6	96.2	1.0143		
			Slope	1.007694
			Intercept	0.443072

NOx Calibration Curve



Calibration Summary

Parameter NO

Air Monitoring Network **Palliser Airshed**



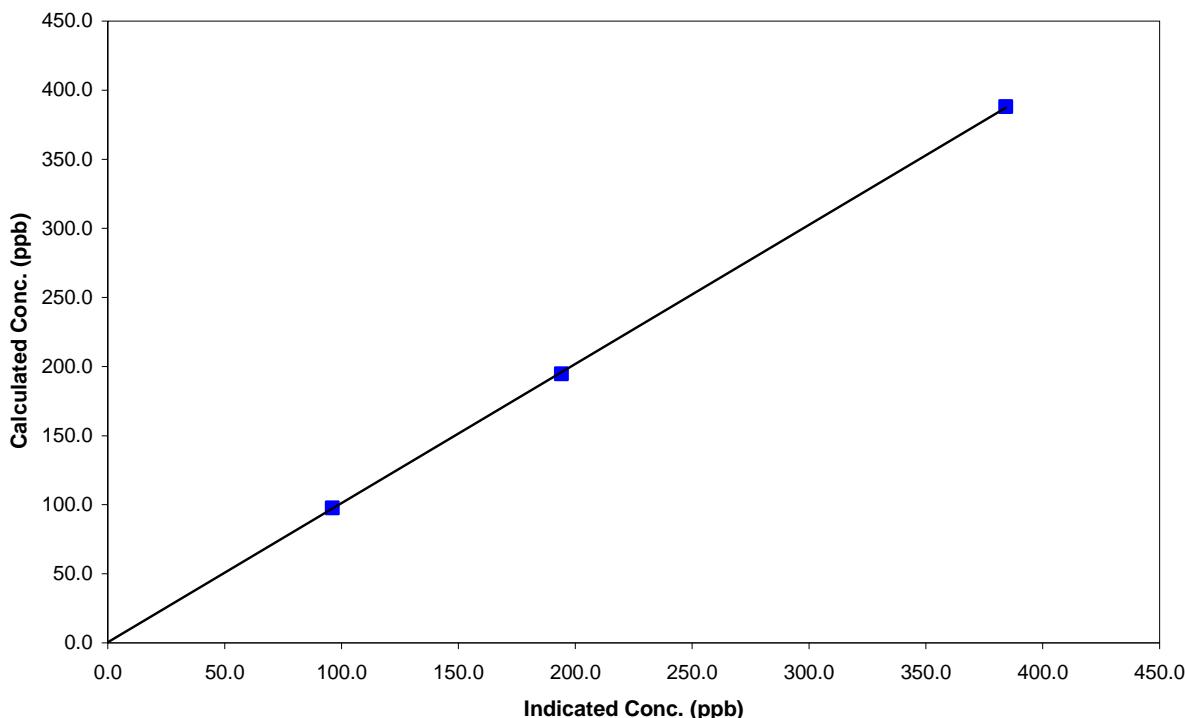
Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 20, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:41	End Time (MST)	21:30
Analyzer make	API Model 200E	Analyzer serial #	219

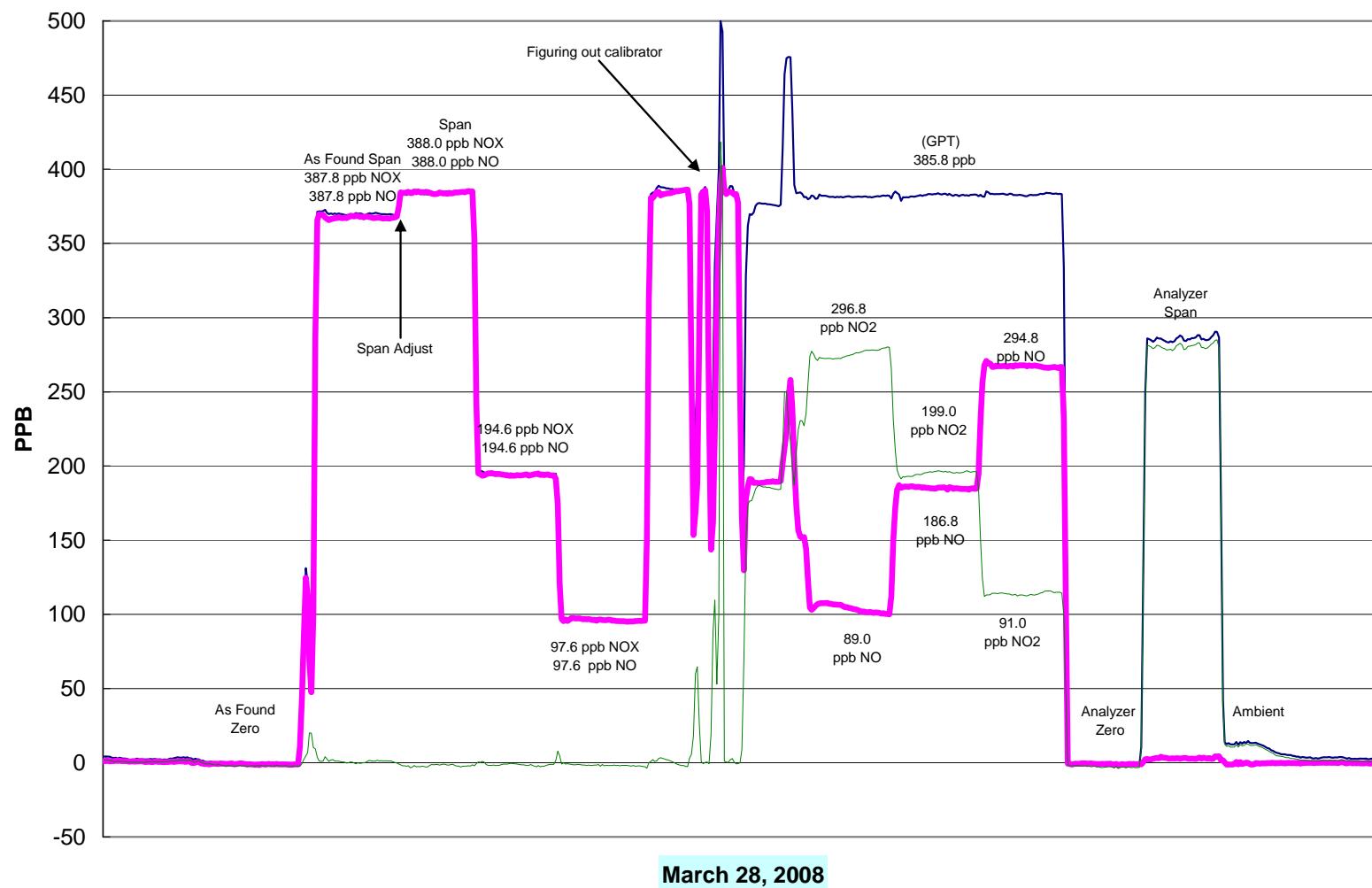
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
388.0	384.2	1.0096	Correlation Coefficient	0.999967
194.6	194.2	1.0021	Slope	1.006578
97.6	96.1	1.0161		
			Intercept	0.546559

NO Calibration Curve



Crescent Heights NOx Calibration Graph



Calibration Report



Parameter	THC			
Air Monitoring Network	Palliser Airshed			
Station Information				
Calibration Date	March 31, 2008		Previous Calibration February 29, 2008	
Station Number	101		Station Location Crescent Heights	
Reason:	Routine	Install	Removal Other:	
Start Time (MST)	7:20	End Time (MST)	9:40	
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C	
Calibrator	API700			
Cal Gas Concentrator	708 ppm CH ₄ / 299 ppm C ₃ H ₈			
Cal Gas CH4 equiv	1530.25 ppm			
DACS make	Focus AP1000			
DACS voltage range	0 - 10 volt			
	Before	After		
Calculated slope	1.008656	Calculated slope	0.996226	
Calculated intercept	-0.006346	Calculated intercept	-0.129358	
Analyzer make	TEI 51C-LT	Analyzer serial #	0407505596	
Concentration range	before		after	
	0 - 50	ppm	0 - 50	ppm
	5.74	PSI	5.75	PSI
	12558	raw	12558	raw
	1591	raw	1591	raw
	-327	Volts	-327	Volts

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)
5000	0.00	0.00	0.17	N/A
5000	80.00	24.10	24.35	0.9895
5000	40.00	12.14	12.25	0.9913
5000	10.00	3.05	3.19	0.9565
5000	0.00	0.00	0.17	As Found Zero
5000	80.00	24.10	24.35	As Found Span
Average Correction Factor				0.9791

Calculated value of As Found Response: 24.391 ppm Percent Change of As Found: -1.2%

Auto zero	before calibration		after calibration	
	0.00	ppm	0.06	ppm
	21.07	ppm	19.72	ppm

Notes: No adjustments made...

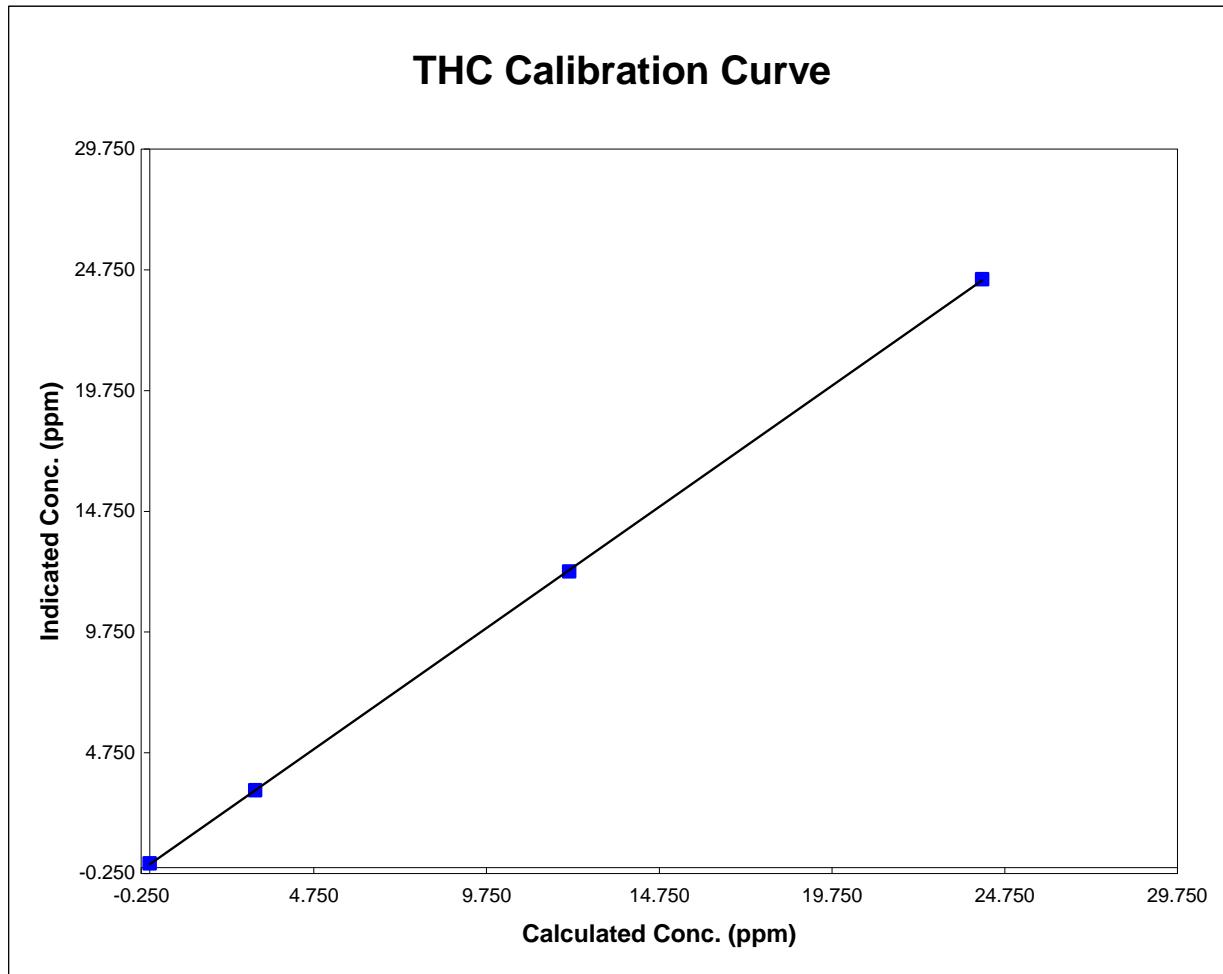
Calibration Performed By: Lenin Flores

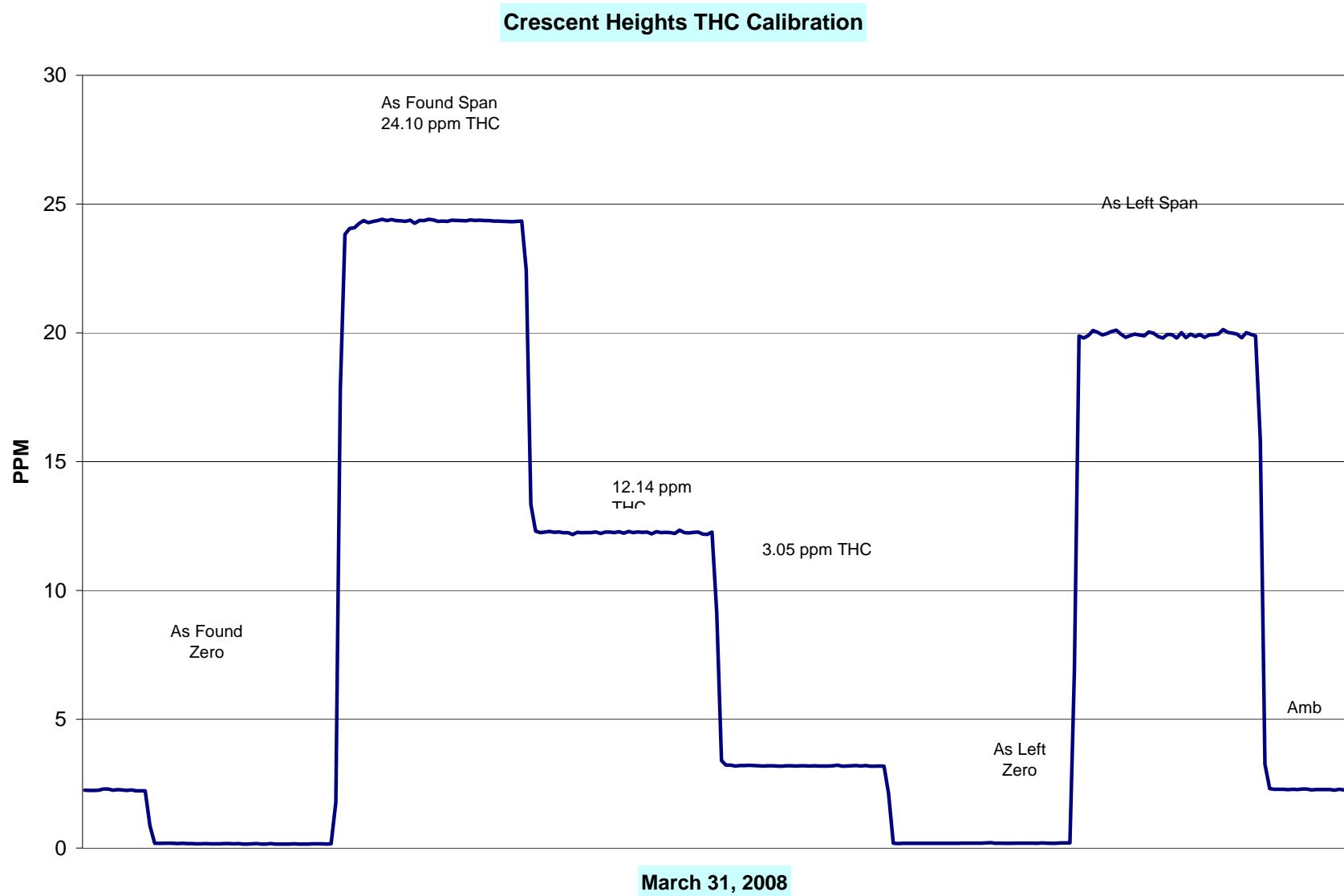
Calibration Summary



Parameter	THC	Palliser Airshed	
Air Monitoring Network		<i>Station Information</i>	
Calibration Date	March 31, 2008	Previous Calibration	February 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:20	End Time (MST)	9:40
Analyzer make/model	TEI 51C-LT	Analyzer serial #	0407505596

<i>Calibration Data</i>				
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.167	N/A		
24.098	24.354	0.9895	Correlation Coefficient	0.999979
12.145	12.252	0.9913		
3.054	3.193	0.9565	Slope	0.996226
			Intercept	-0.129358





Calibration Report



Parameter

CO

Air Monitoring Network

Palliser

Station Information

Calibration Date	March 31, 2008		Previous Calibration	February 21, 2008														
Station Number	101		Station Location	Crescent Heights														
Reason:	Routine	Install	Removal	Other:														
Start Time (MST)	8:40		End Time (MST)	11:15														
Barometric Pressure	27.28	in Hg	Station Temperature	20.0 Deg C														
Calibrator	API 700		Serial Number															
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.	45270														
	<u>Before</u>		DACS channel #	11														
Calculated slope	0.997044		Calculated slope	1.006691														
Calculated intercept	0.090744		Calculated intercept	-0.259028														
Analyzer make	TEI Model 48C		Analyzer serial #	436609887														
Concentration range	<table border="1"> <thead> <tr> <th>before</th> <th>after</th> </tr> </thead> <tbody> <tr> <td>0 - 50</td> <td>ppm</td> </tr> <tr> <td>1.106</td> <td></td> </tr> <tr> <td>3.56</td> <td></td> </tr> <tr> <td>1.138325</td> <td></td> </tr> <tr> <td>199960</td> <td>Hz</td> </tr> <tr> <td>1.008</td> <td>LPM</td> </tr> </tbody> </table>		before	after	0 - 50	ppm	1.106		3.56		1.138325		199960	Hz	1.008	LPM	0 - 50	ppm
before	after																	
0 - 50	ppm																	
1.106																		
3.56																		
1.138325																		
199960	Hz																	
1.008	LPM																	
CO coefficient			1.106															
CO bkg setting			3.56															
Lamp ratio			1.138325															
Lamp intensity			1999456	Hz														
Sample Flow			1.008	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)
4000	0.00	0.00	0.27	N/A
4000	50.00	37.01	37.05	0.9989
4000	30.00	22.32	22.38	0.9974
4000	10.00	7.48	7.70	0.9713
4000	0.00	0.00	0.27	0.0000
4000	50.00	37.01	37.05	0.9989
Average Correction Factor				0.9892

Calculated value of As Found Response: 36.766 ppm Percent Change of As Found: 0.7%

Auto zero	before calibration		after calibration	
			0.05	ppm
	19.35	ppm	19.52	ppm

Notes: No adjustments made...

Calibration Performed By: Lenin Flores

Calibration Summary

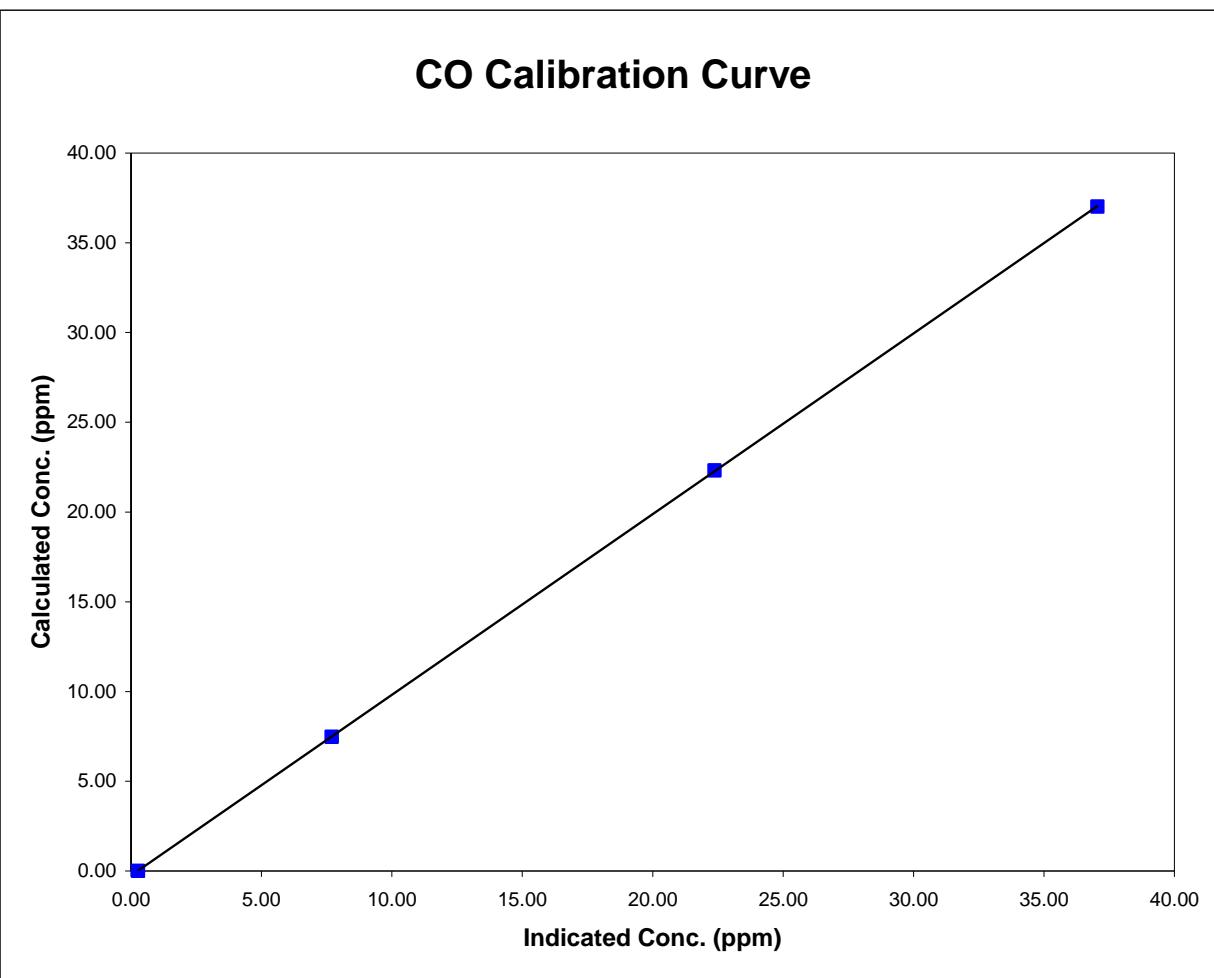
FOCUS
AIR QUALITY MONITORING

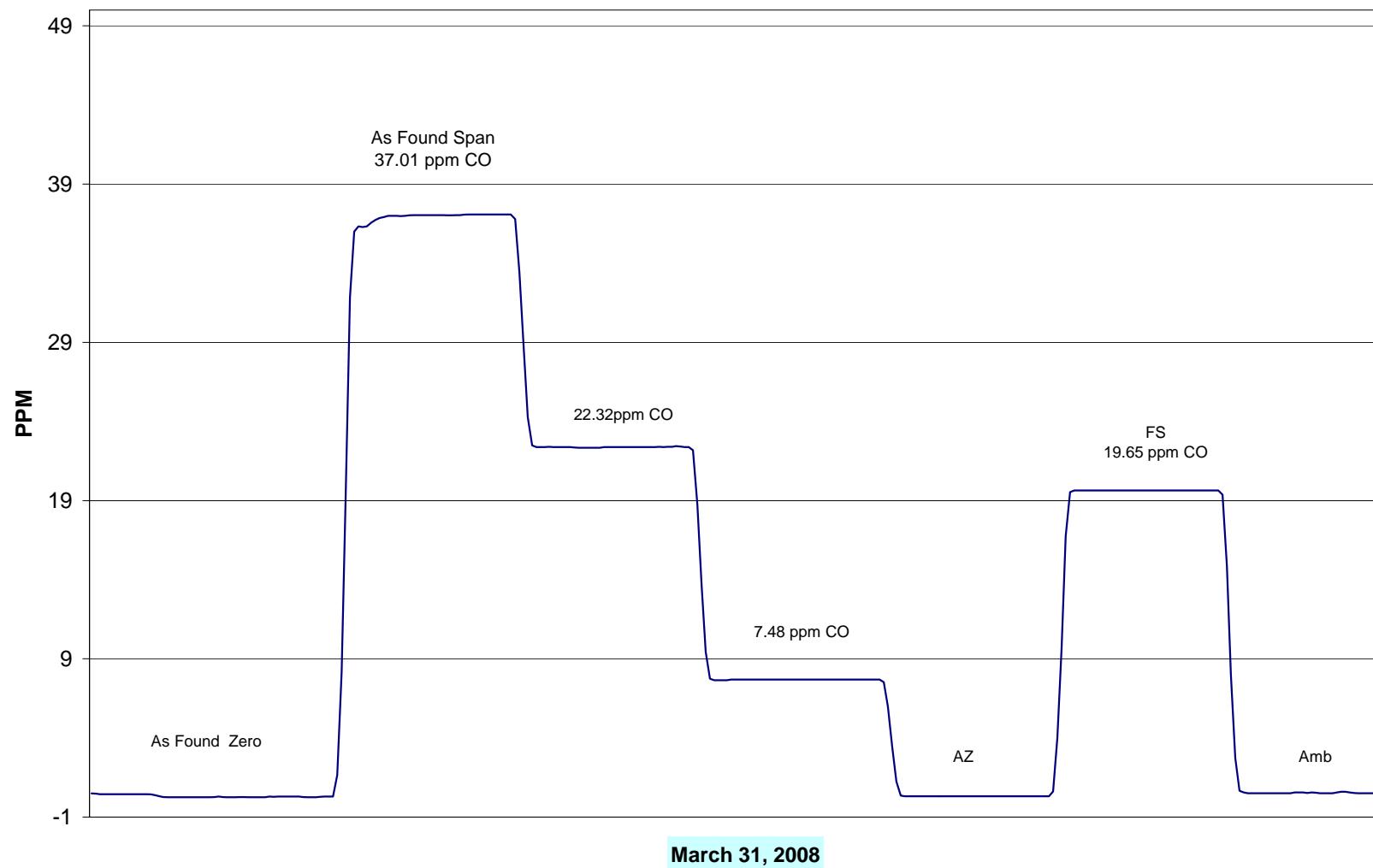
Parameter	co	Palliser
Air Monitoring Network		

Station Information			
Calibration Date	March 31, 2008	Previous Calibration	February 21, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	8:40	End Time (MST)	11:15
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.27	N/A		
37.01	37.05	0.9989	Correlation Coefficient	0.999996
22.32	22.38	0.9974		
7.48	7.70	0.9713	Slope	1.006691
			Intercept	-0.259028



Crescent Heights CO Calibration

Calibration Report



Parameter

O3

Air Monitoring Network

PAS

Station Information

Calibration Date	March 31, 2008	Previous Calibration	February 21, 2008
Station Number	110	Station Location	Rover - Brooks
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	13:00	End Time (MST)	15:20
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	API	Serial Number	
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45265
DACS voltage range	0 - 1 volt	DACS channel #	7
	Before		After
Calculated slope	0.995967	Calculated slope	0.939395
Calculated intercept	-0.692125	Calculated intercept	-2.596195
Analyzer make	API Model 400E	Analyzer serial #	331
Concentration range	before		after
	0 - 500	ppb	0 - 500
	-10.5	ppb	-10.5
	0.988		0.988
	4328.7	mV	4276.6
	4329.8	mV	4277.0
	26.5	inches Hg	26.6
	636	ccm	609
	37.0	Deg C	35.8

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4900	0.0	0.0	3.2	N/A
4900	400.0	280.6	301.6	0.9303
4900	300.0	199.2	215.1	0.9261
4900	200.0	117.2	126.6	0.9254
4900	0.0	0.0	3.2	As Found Zero
4900	400.0	280.6	301.6	As Found Span
Average Correction Factor				0.9273

Calculated value of As Found Response:

296.5 ppm

Percent Change of As Found: 5.7%

Auto zero	before calibration		after calibration	
	-0.2	ppb	4.0	ppb
	393.0	ppb	213.4	ppb

Notes: No adjustents were made...

Calibration Performed By: Lenin Flores

Calibration Summary



Parameter **O3**

Air Monitoring Network

PAS

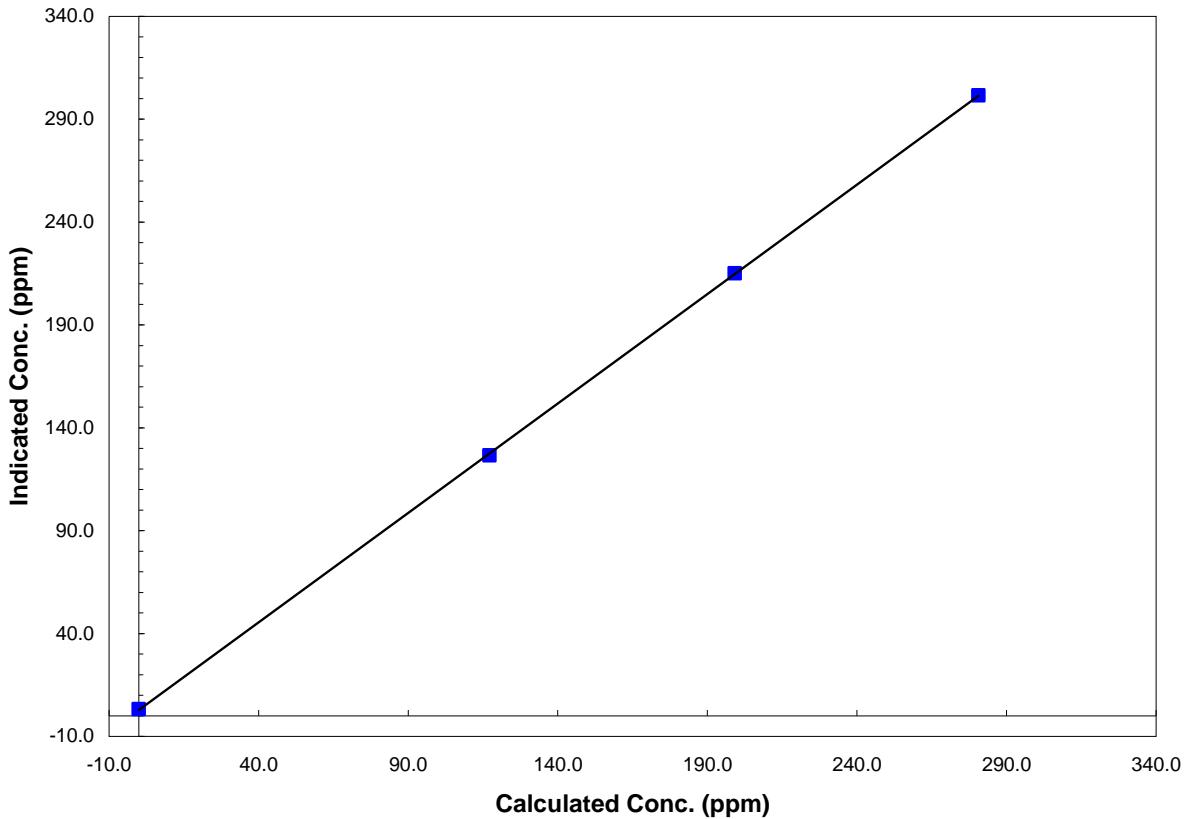
Station Information

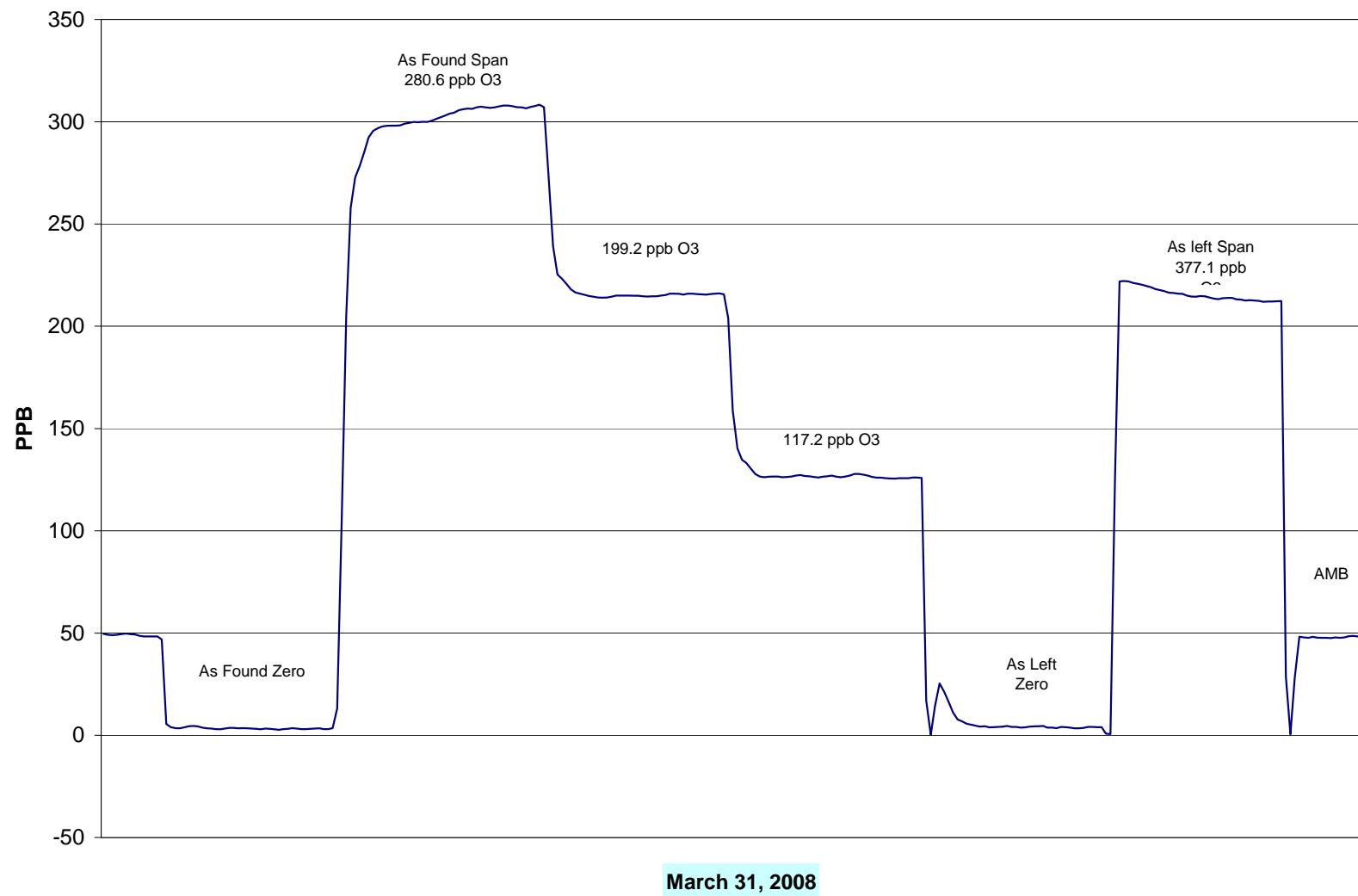
Calibration Date	March 31, 2008	Previous Calibration	February 21, 2008
Station Number	110	Station Location	Rover - Brooks
Start Time (MST)	13:00	End Time (MST)	15:20
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
280.6	301.6	0.9303		
199.2	215.1	0.9261	Correlation Coefficient	0.999978
117.2	126.6	0.9254	Slope	0.939395
0.0	3.2	N/A	Intercept	-2.596195

O3 Calibration Curve



Brooks O₃ Calibration

March 31, 2008

Calibration Report



Parameter SO2
Air Monitoring Network PAS

Station Information

Calibration Date	March 28, 2007		Previous Calibration	February 21, 2007
Station Number	110		Station Location	Rover - Brooks
Reason:	Routine	Install	Removal	Other:
Start Time (MST)	9:15		End Time (MST)	13:00
Barometric Pressure	27.80	inches Hg	Station Temperature	22.0 Deg C
Calibrator	API		Serial Number	
Cal Gas Concentration	50.3	ppm	Cal Gas Expiry Date	27-Jul-09
Gas Cert Reference	LL-16136			
DACS make	Focus AP1000		DACS serial No.	45265
DACS voltage range	0 - 10 volt		DACS channel #	5
	<u>Before</u>			<u>After</u>
DACS Scale High	500		DACS slope	500
DACS Scale Low	0		DACS intercept	0
Calculated slope	0.995437		Calculated slope	0.984153
Calculated intercept	2.516079		Calculated intercept	1.717270
Analyzer make	TEI Model 43A		Analyzer serial #	NA
Concentration range SO2 zero pot SO2 span pot Analyzer flow UV Lamp voltage Vacuum	before		after	
	0-500	ppb	0-500	ppb
	1.5		1.5	
	4.65		4.65	
	4.75	LPM	4.75	LPM
	859	V	858	V
	23.5	in Hg	21.5	in Hg

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)
5000	0.00	0.0	-0.3	N/A
5000	40.00	399.2	404.7	0.9863
5000	20.00	200.4	200.7	0.9983
5000	10.00	100.4	99.1	1.0130
5000	0.00	0.0	-0.3	As found zero
5000	40.00	399.2	404.7	As found span
Average Correction Factor				0.9992

Calculated value of As Found Response: 405.700 ppm Percent Change of As Found: -1.6%

Auto zero Auto span	before calibration		after calibration	
	-7.0	ppm	-1.2	ppm
	203.9	ppm	194.2	ppm

Notes: No adjustments were made...

Calibration Performed By: Lenin Flores

Calibration Summary



Parameter **SO₂**

Air Monitoring Network

PAS

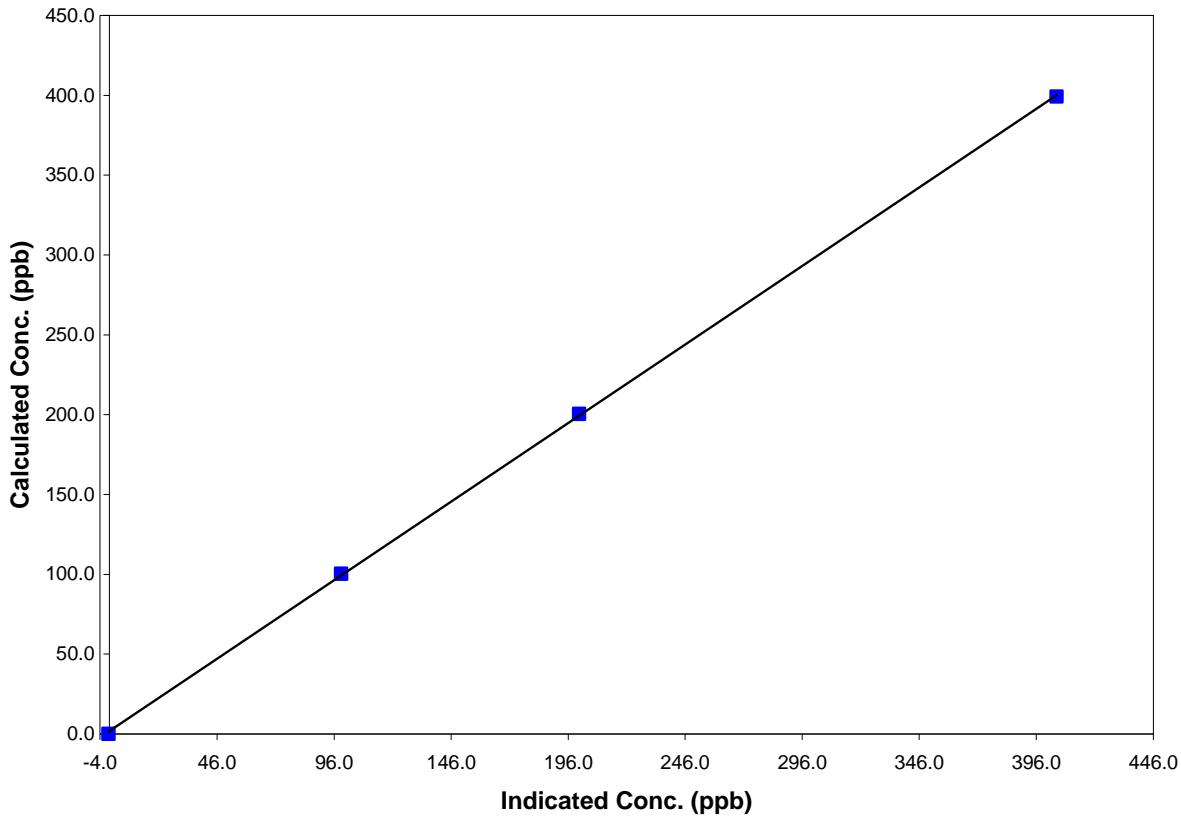
Station Information

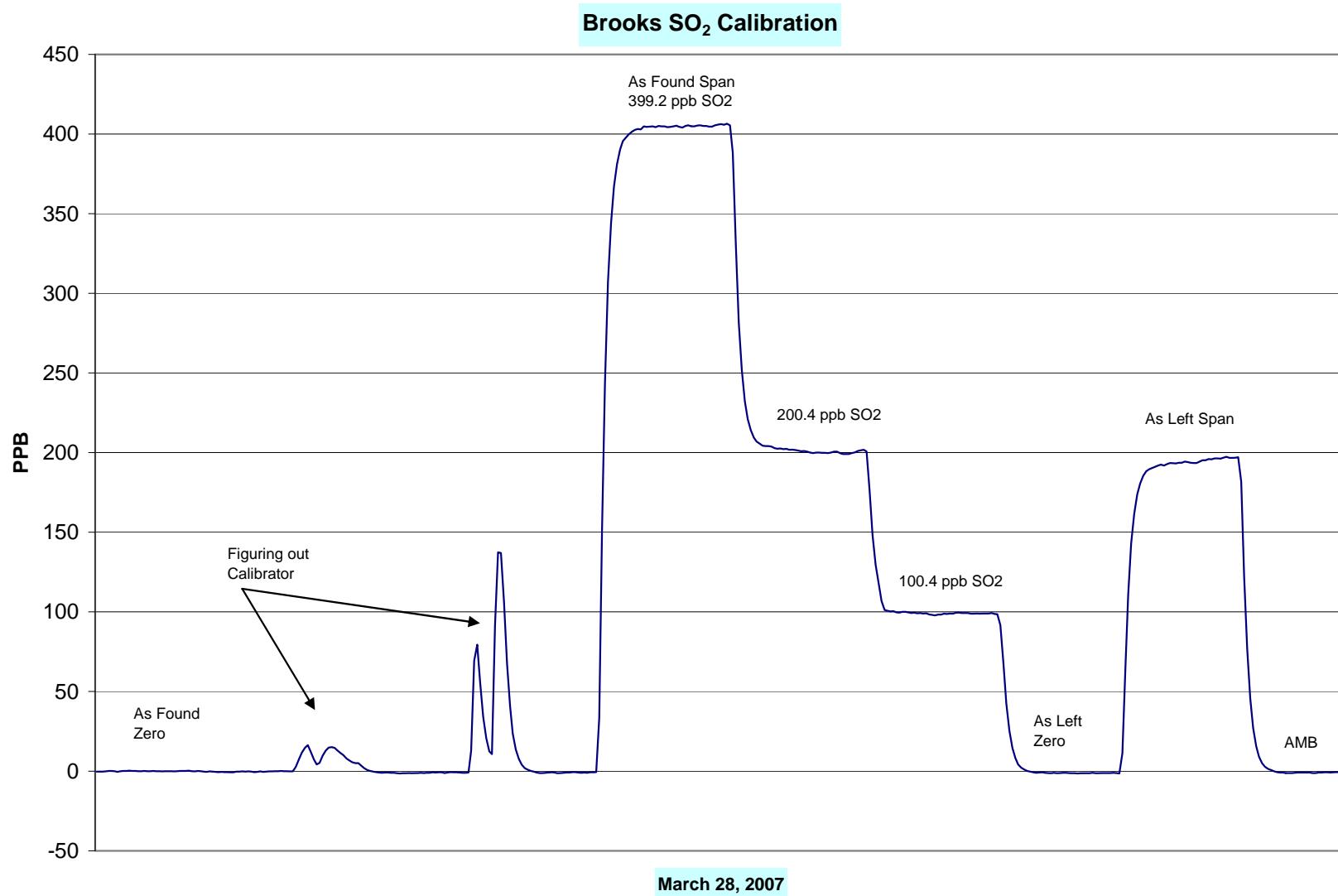
Calibration Date	March 28, 2007	Previous Calibration	February 21, 2007
Station Number	110	Station Location	Rover - Brooks
Start Time (MST)	9:15	End Time (MST)	13:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	NA

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
399.2	404.7	0.9863	Correlation Coefficient	0.999939
200.4	200.7	0.9983	Slope	0.984153
100.4	99.1	1.0130	Intercept	1.717270

SO₂ Calibration Curve





Calibration Report



Parameter

H2S

Air Monitoring Network

PAS

Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 21, 2008
Station Number	110	Station Location	Brooks Rover
Reason:	Routine	Install	Removal Other:
Start Time (MST)	11:30	End Time (MST)	15:00
Barometric Pressure	27.8	inches Hg	22.0 Deg C
Calibrator	API	Serial Number	
Cal Gas Concentration	5.02	ppm	Cal Gas Expiry Date 15-Nov-05
Gas Cert Reference	BLM003489		
DACS make	Focus AP1000	DACS serial No.	45265
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.000160	Calculated slope	0.987857
Calculated intercept	-0.400211	Calculated intercept	-0.125590
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221
Concentration range H2S zero pot H2S span pot Analyzer flow UV Lamp voltage Vacuum	before	after	
	0 - 100	ppb	0 - 100 ppb
	959		9.60
	555		7.35
	0.900	LPM	0.900 LPM
	935	V	933 V
	21.5	in Hg	21.5 in Hg

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)
5000	0.00	0.0	0.7	N/A
5000	80.00	79.1	80.5	0.9820
5000	40.00	39.8	39.8	1.0010
5000	10.00	10.0	10.0	0.9980
5000	0.00	0.0	0.7	As found zero
5000	80.00	79.1	74.3	As found span
Average Correction Factor				0.9937

Calculated value of As Found Response:

73.26 ppm

Percent Change of As Found: 7.3%

Auto zero Auto span	before calibration		after calibration	
	1.3	ppm	0.4	ppm
	36.1	ppm	41.2	ppm

Notes: Adjusted Span...

Calibration Performed By: Lenin Flores

Calibration Summary

FOCUS
AIR QUALITY MONITORING

Parameter H2S

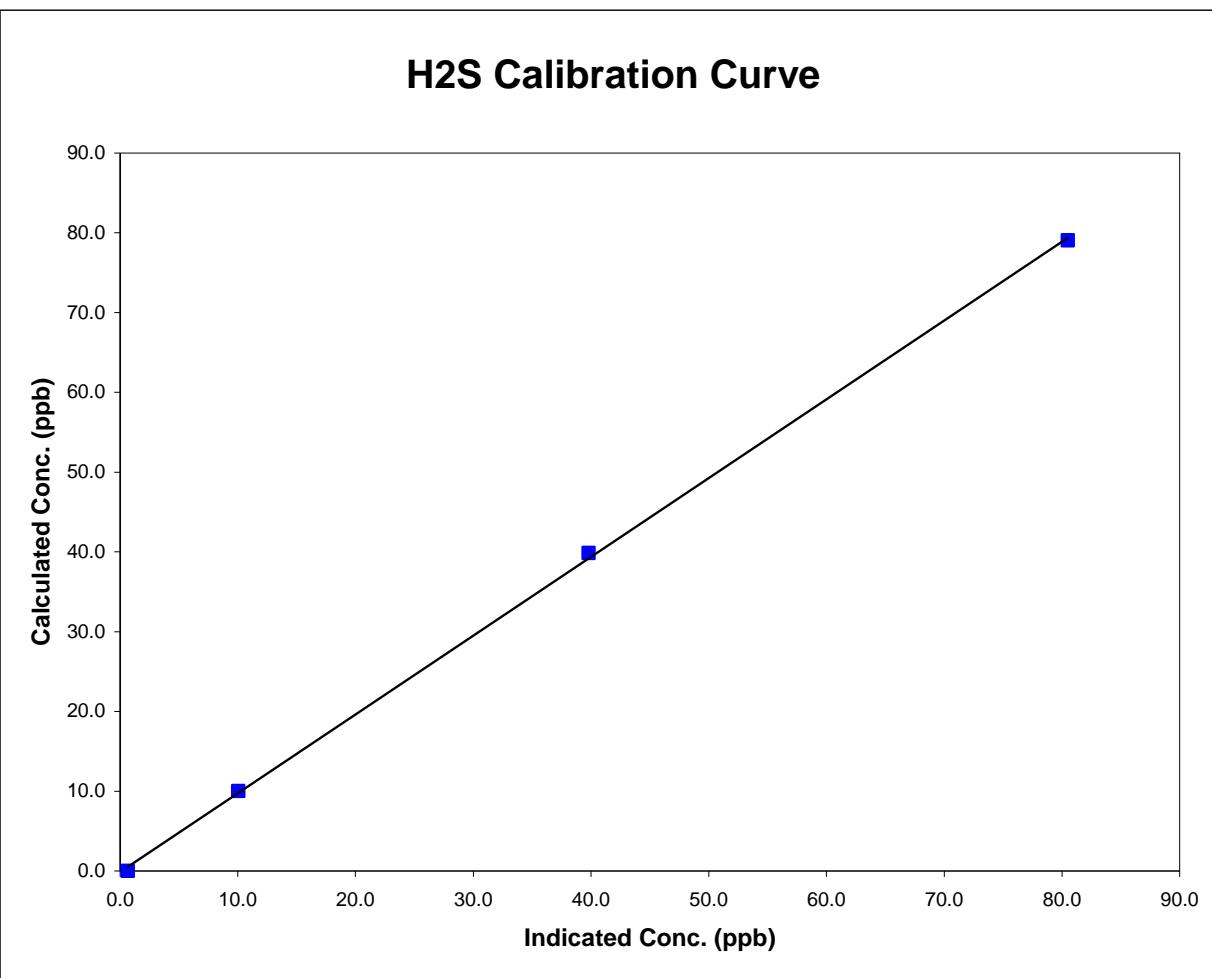
Air Monitoring Network PAS

Station Information

Calibration Date	March 28, 2008	Previous Calibration	February 21, 2008
Station Number	110	Station Location	Brooks Rover
Start Time (MST)	11:30	End Time (MST)	15:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.7	N/A		
79.1	80.5	0.9820	Correlation Coefficient	0.999770
39.8	39.8	1.0010	Slope	0.987857
10.0	10.0	0.9980		
			Intercept	-0.125590



Brooks H₂S Calibration