Palliser Airshed Society

Ambient Air Monitoring Network Summary

June 2006

Prepared By:

FOCUS
AIR QUALITY MONITORING

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July 13, 2006

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

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – June 2006

Enclosed is the PAS Ambient Monitoring Report for the month of **June 2006**.

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

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

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

- Monthly average concentrations of NO_2 was 6.1 ppb
- Monthly average concentrations for O_3 was 30.9 ppb
- Monthly average concentrations for CO was 0.18 ppm
- Monthly average concentrations for THC was 1.94 ppm
- Monthly average concentrations for $PM_{2.5}$ was 3.3 µg/m³

Passive Monitoring – Six Sites throughout the PAS zone:
The following are the ranges for June 2006 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO_2 passives were all <0.4 ppb.
- Monthly average concentrations for NO_2 passives ranged from 3.1 ppb to 4.4 ppb
- Monthly average concentrations for O_3 passives ranged from 33.9 ppb to 37.7 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 Specialist

Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

There were no general station issues observed for the month of June. Calibrations were performed on June 14th and 15th on all the pollutant analyzers.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	During calibration on June 14th the scrubber was replaced, this maintenance resulted in the analyzer having to stabilize overnight. Seventeen (17) hours were flagged for maintenance.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	No operational issues observed.
Carbon Monoxide	TEI	49C	ppm	No operational issues observed.
PM 2.5	R&P TEOM	1400ab	$\mu g/m^3$	There were nine (9) hours of excessive baseline drift flagged. No other operational issues were observed.
Wind Speed	Met One	010C	kph	There were three (3) hours of calm noted. No other operational issues were observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m^2	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.

May 2006 Monthly Overall Summary Report
Ambient Air Quality Data

May-2006	Palliser Airshed Society						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant (units)	**Objectives** 1-hr	24-hr	**Station**	**Monthly Average**	**Exceedence** 1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	**Operational Time (%)**
NO (**ppb**)			Crescent Heights	1.4	-	-	34.2	May-04 06:00	1.9	SE	4.8	May-04	100.0%
NO_2 (**ppb**)	212	106	Crescent Heights	5.5	0	0	24.1	May-31 21:00	4.7	E	9.2	May-17	100.0%
NO_X (**ppb**)			Crescent Heights	6.7	-	-	57.0	May-04 06:00	1.9	SE	13.7	May-04	100.0%
O_3 (**ppb**)	82		Crescent Heights	34.8	0	-	64.4	May-14 14:00	8.2	ESE	45.1	May-25	100.0%
O_3 (**ppb**) - **8-hr**	65		Crescent Heights		0						63.5	May-14	
CO (**ppm**)	13		Crescent Heights	0.18	0	-	0.5	May-04 06:00	1.9	SE	0.3	May-17	100.0%
CO (**ppm**) - **8-hr**	5		Crescent Heights		0						0.3	May-04	
THC (**ppm**)			Crescent Heights	1.96	-	-	2.8	May-14 04:00	1.7	NNE	2.1	May-14	100.0%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Crescent Heights	3.6		0	41.5	May-20 10:00	19.7	ESE	7.7	May-06	100.0%
RH (**%**)			Crescent Heights	54.7	-	-	-	-	-	-	-	-	100.0%
SR (**W/m^2**)			Crescent Heights	242.3	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Crescent Heights	14.8	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	3.7	-	-	29.9	May-02 13:00	29.9	NW	16.7	19-May	100.0%
WSPD s (km/hr)			Crescent Heights	11.8	-	-	30.1	May-02 13:00	30.1	NW	17.6	19-May	100.0%
WDIR (Deg)			Crescent Heights	W	-	-	-	-	-	-	-	-	100.0%

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

* Wind Direction is the predominate direction for the Month

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: June 1, 2006 to July 1, 2006

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	635
Number of 1-hr Fair Readings:	41
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Jun-06	7	7	7	8	4	6	11	14	16	18	24	24	25	N	24	24	25	25	23	18	10	10	8	6
2-Jun-06	13	15	17	18	17	16	12	13	19	19	21	23	N	29	28	30	30	27	23	23	17	13	15	12
3-Jun-06	11	11	11	11	12	14	14	16	20	18	19	N	21	24	25	23	23	22	23	21	16	14	16	13
4-Jun-06	12	12	14	13	13	14	14	15	16	20	N	22	23	22	23	22	21	21	20	18	16	11	13	N
5-Jun-06	11	13	11	7	8	10	9	13	20	N	19	21	21	21	18	19	19	23	21	19	13	18	16	15
6-Jun-06	14	13	13	16	12	9	12	16	N	18	19	23	25	26	27	29	29	30	30	26	22	19	18	16
7-Jun-06	17	18	18	18	18	16	15	N	20	22	24	24	26	25	25	25	25	24	23	22	22	22	21	20
8-Jun-06	20	20	19	19	20	19	N	18	19	19	17	16	14	13	12	11	11	10	9	10	11	10	9	9
9-Jun-06	7	5	5	5	7	N	5	6	10	9	10	11	12	13	14	14	15	14	13	12	12	12	11	12
10-Jun-06	11	10	9	9	N	9	9	8	8	9	8	9	9	10	10	11	11	12	11	10	8	7	8	7
11-Jun-06	8	7	7	N	5	7	8	8	9	11	15	16	20	17	16	16	16	18	20	17	13	12	9	10
12-Jun-06	13	13	N	12	13	10	12	14	16	18	19	20	21	22	22	22	22	22	22	21	19	19	17	16
13-Jun-06	14	N	12	14	N	15	14	13	15	19	20	21	22	23	23	24	24	24	23	21	19	18	18	18
14-Jun-06	N	18	19	19	19	17	16	15	16	18	21	21	20	N	N	2	N	N	N	2	3	2	2	1
15-Jun-06	1	N	N	1	1	1	1	1	1	1	1	14	13	14	13	12	12	11	10	10	10	8	9	9
16-Jun-06	8	7	N	4	4	5	6	6	9	13	15	18	19	16	15	15	12	12	10	9	N	14	15	14
17-Jun-06	12	N	8	11	12	12	13	18	20	22	23	20	17	20	22	20	19	19	20	17	18	18	17	16
18-Jun-06	N	11	10	10	9	8	10	10	12	13	16	17	18	19	18	18	18	18	18	18	14	7	7	N
19-Jun-06	5	4	5	5	4	5	6	10	12	14	13	18	N	19	28	22	15	16	16	15	15	18	N	14
20-Jun-06	13	13	13	12	10	10	13	18	19	15	17	21	19	17	16	16	17	15	12	12	12	N	14	13
21-Jun-06	15	14	11	8	5	5	5	6	8	16	17	20	21	22	21	21	22	21	19	17	N	14	12	10
22-Jun-06	6	4	4	4	4	3	4	7	5	8	13	20	21	22	22	22	21	20	20	N	19	17	16	18
23-Jun-06	16	13	11	10	8	5	7	8	10	16	21	24	24	25	24	N	28	28	N	23	22	18	13	12
24-Jun-06	12	7	6	5	6	5	7	9	14	17	26	28	29	31	32	33	34	N	32	29	29	19	14	11
25-Jun-06	10	11	9	5	5	7	8	13	13	16	20	27	30	31	27	27	N	27	27	25	17	14	13	10
26-Jun-06	4	5	6	5	5	6	8	10	12	16	21	29	30	30	30	N	30	28	28	24	19	13	9	10
27-Jun-06	9	10	9	8	8	10	10	14	16	19	20	21	21	21	N	21	20	21	21	18	19	6	N	18
28-Jun-06	18	18	18	18	16	12	11	12	16	20	20	22	23	N	25	25	22	26	21	20	20	11	10	10
29-Jun-06	10	N	12	12	12	14	23	24	18	13	16	17	N	19	21	21	21	21	20	18	16	15	15	13
30-Jun-06	11	10	7	7	7	9	15	13	14	17	21	N	23	23	23	23	22	22	21	13	11	20	19	17

PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

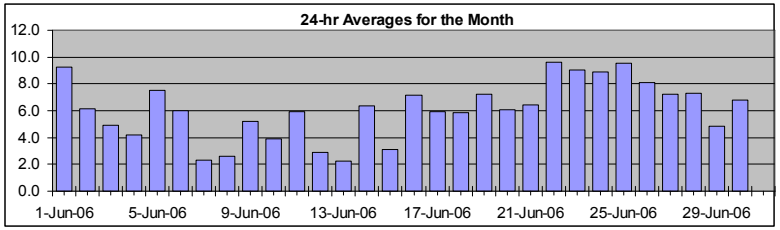
Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

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

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



Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	34.4	ppb	25-Jun	22:00 23:00
Maximum 24-hr Average:	9.6	ppb	22-Jun	

AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	20.0	15.0	8.1	4.7	3.0	1.7	1.4	6.1 ppb	4.7 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	9	9	8	8	16	11	9	10	10	11	3	2	2	A	7	5	4	4	6	10	22	12	11	24	9.2	23.5
2-Jun-06	8	5	4	4	5	7	10	11	4	4	4	5	A	6	6	4	4	5	4	5	14	14	4	5	6.1	14.4
3-Jun-06	6	5	3	3	2	3	3	4	2	4	3	A	5	3	4	3	5	10	5	5	12	11	5	6	4.9	12.4
4-Jun-06	4	4	4	3	4	5	5	2	3	3	A	6	3	3	2	2	2	2	2	3	6	16	5	5	4.2	15.7
5-Jun-06	4	2	5	9	7	8	14	8	3	A	9	6	5	5	7	8	11	6	9	8	19	7	6	5	7.5	18.7
6-Jun-06	8	11	12	5	10	13	8	7	A	8	8	5	3	3	3	3	2	2	3	4	6	6	5	5	6.0	13.2
7-Jun-06	4	3	3	3	3	2	3	A	5	3	3	2	2	2	2	2	1	1	2	2	2	2	2	1	2.3	5.3
8-Jun-06	1	2	2	2	2	2	A	6	4	4	3	3	3	3	3	2	3	3	3	2	2	2	2	2	2.6	6.5
9-Jun-06	3	7	8	6	4	A	12	12	8	9	6	5	4	4	3	4	3	3	4	3	3	3	3	2	5.2	12.0
10-Jun-06	2	3	4	3	A	7	4	3	3	3	4	4	3	2	2	2	2	2	3	4	6	11	6	8	3.9	10.5
11-Jun-06	4	6	6	A	12	6	6	6	4	4	4	4	3	6	6	6	8	7	4	3	8	7	10	7	5.9	12.0
12-Jun-06	3	3	A	8	5	7	6	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.9	8.1
13-Jun-06	3	A	7	4	3	3	3	3	2	2	1	1	1	1	1	2	1	1	1	1	2	2	3	2	2.2	7.0
14-Jun-06	A	6	4	3	3	3	4	4	5	5	3	C	C	C	A	7	20	8	5	10	13	10	5	3	6.3	19.8
15-Jun-06	2	3	A	4	3	4	4	4	3	2	2	2	2	3	3	3	2	3	3	2	2	4	5	4	3.1	4.7
16-Jun-06	6	8	A	18	16	10	10	10	6	4	3	3	3	5	6	2	6	4	5	7	12	9	4	6	7.1	18.4
17-Jun-06	7	A	17	11	7	6	6	4	4	4	3	5	9	5	3	6	10	7	3	4	3	5	4	4	6.0	17.0
18-Jun-06	A	10	7	7	4	8	3	3	3	4	2	2	2	2	3	2	3	3	4	3	11	27	16	A	5.8	26.6
19-Jun-06	13	11	7	7	10	10	9	5	4	7	12	5	2	4	4	7	11	8	6	5	5	4	A	11	7.2	13.1
20-Jun-06	8	6	4	4	6	6	6	7	7	12	9	3	4	3	3	4	4	7	10	6	5	A	8	9	6.1	12.3
21-Jun-06	6	4	5	8	10	13	10	9	11	5	5	3	2	3	4	3	4	3	4	5	A	11	11	10	6.5	12.5
22-Jun-06	13	19	18	18	15	13	10	17	17	23	8	2	2	2	2	2	2	3	6	A	8	7	9	6	9.6	22.8
23-Jun-06	7	9	8	9	8	15	15	14	16	10	6	5	5	4	4	4	8	8	A	11	5	9	17	12	9.0	16.7
24-Jun-06	11	13	21	19	19	15	10	13	14	12	3	2	2	2	2	2	2	A	7	4	4	12	9	8	8.9	21.4
25-Jun-06	8	6	9	19	12	6	6	4	10	9	7	2	3	3	3	2	A	5	5	4	13	18	34	29	9.5	34.4
26-Jun-06	18	15	10	9	8	10	10	16	16	12	8	4	2	2	2	A	5	4	3	4	6	7	9	5	8.1	18.5
27-Jun-06	7	5	6	7	10	8	10	7	10	3	3	3	4	4	A	8	9	6	5	8	15	17	10	3	7.2	16.8
28-Jun-06	2	2	2	2	4	8	7	8	5	3	3	6	9	A	13	10	15	5	14	14	13	10	8	5	7.3	15.1
29-Jun-06	8	3	3	5	4	5	6	9	5	4	3	3	A	6	5	4	4	3	3	4	6	7	5	7	4.9	8.7
30-Jun-06	9	9	11	10	10	7	5	4	4	5	3	A	8	5	4	3	4	4	4	14	18	6	3	6	6.8	18.3
Hourly Avg	6.7	6.7	7.3	7.4	7.7	7.6	7.5	7.4	6.5	6.3	4.6	3.5	3.5	3.4	3.9	4.0	5.4	4.5	4.6	5.4	8.3	8.9	7.6	7.1		
Hourly Max	18.5	18.9	21.4	19.2	18.9	15.4	15.0	17.2	17.1	22.8	12.0	6.2	8.9	6.2	13.1	9.9	19.8	9.7	13.6	14.3	22.1	26.6	34.4	29.1		

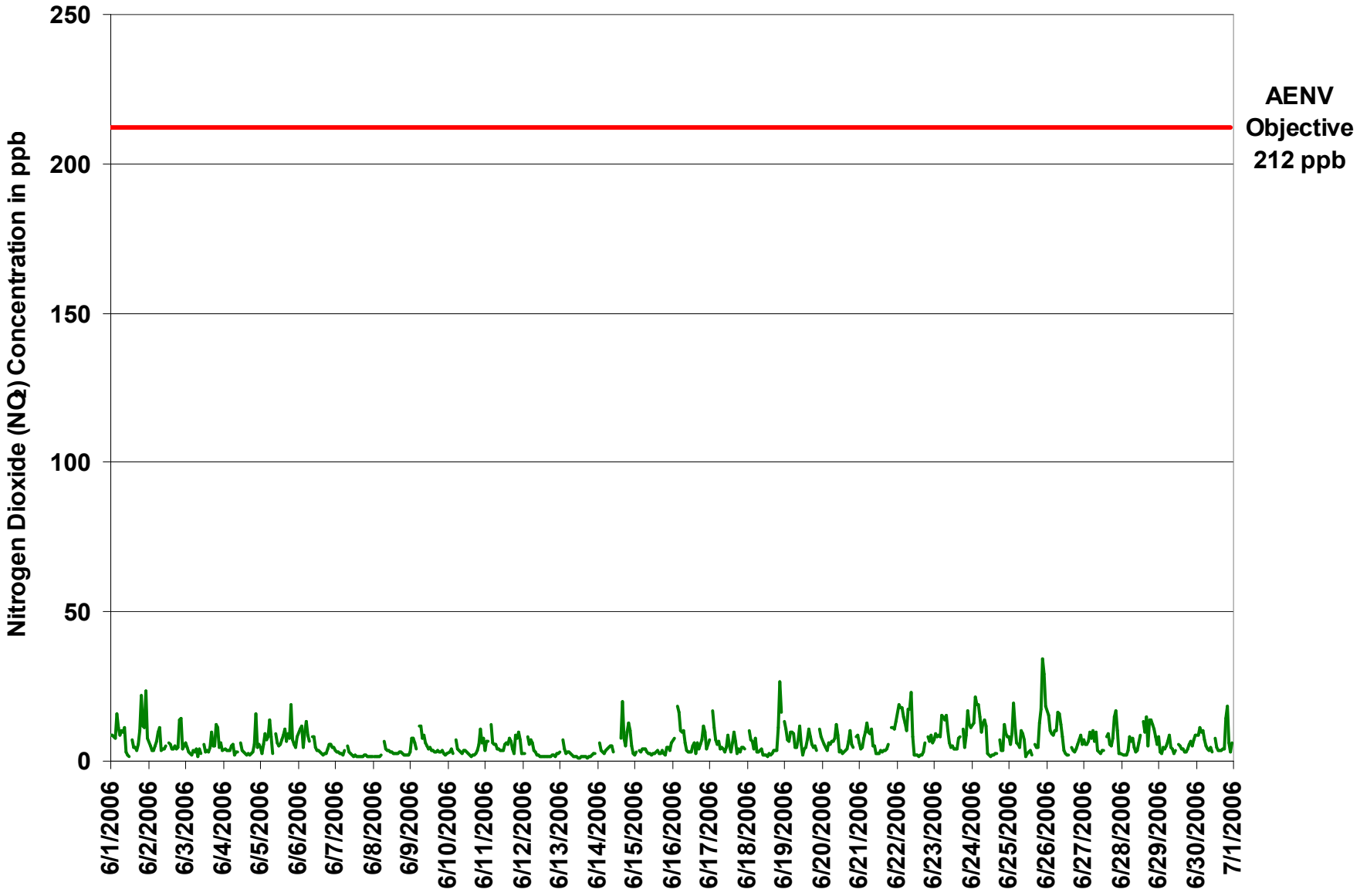


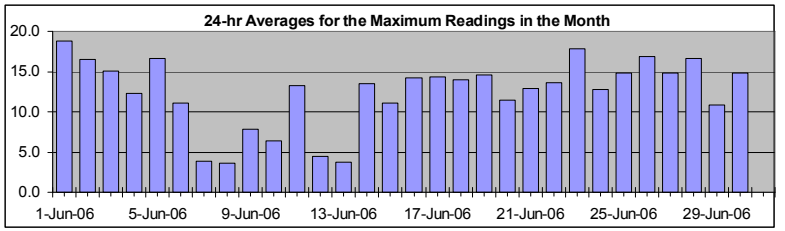
Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

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



Summary

Maximum 1-hr Value:	95.4	ppb	26-Jun	1:00 2:00
Maximum 24-hr Value:	18.8	ppb	1-Jun	

AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	44.0	32.1	17.1	9.4	5.1	2.9	2.3	12.4 ppb	9.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	13	21	15	15	25	18	18	13	13	15	9	4	3	A	28	21	15	13	32	16	37	21	24	43	18.8	42.9
2-Jun-06	10	6	7	7	10	10	25	17	7	26	18	40	A	10	26	31	7	20	6	8	28	41	7	13	16.5	40.7
3-Jun-06	27	26	5	4	3	19	17	8	2	13	8	A	9	4	7	5	25	25	44	9	21	44	7	13	15.1	44.4
4-Jun-06	5	6	6	4	4	34	24	3	17	35	A	16	5	31	4	3	5	4	6	5	12	32	8	13	12.3	34.5
5-Jun-06	18	3	23	15	9	11	21	23	5	A	24	9	8	11	29	20	32	17	16	21	32	17	9	7	16.6	32.4
6-Jun-06	38	24	23	8	13	19	12	12	A	12	12	8	6	8	5	4	4	4	4	7	7	10	7	7	11.0	37.9
7-Jun-06	5	4	4	4	4	3	8	A	10	4	4	4	3	3	3	3	3	2	3	3	4	3	3	2	3.9	9.7
8-Jun-06	2	2	2	2	2	3	A	10	5	5	4	5	4	4	3	3	3	4	4	4	3	3	3	3	3.6	9.6
9-Jun-06	5	15	11	11	6	A	14	14	10	13	10	7	5	7	6	6	5	4	6	5	6	6	4	4	7.8	14.9
10-Jun-06	5	5	6	4	A	11	6	5	4	4	5	5	5	4	4	3	4	4	5	6	11	15	9	16	6.3	16.2
11-Jun-06	9	17	23	A	16	9	10	18	7	11	19	24	6	9	11	10	26	11	6	5	15	10	16	15	13.2	26.3
12-Jun-06	4	4	A	12	8	9	10	6	4	3	4	3	3	3	3	3	3	2	2	3	3	2	4	3	4.4	12.0
13-Jun-06	4	A	12	6	4	6	4	4	4	4	3	3	2	3	3	3	3	3	2	2	3	3	3	3	3.7	12.2
14-Jun-06	A	9	5	4	5	9	7	6	14	17	5	C	C	C	A	34	46	20	7	16	24	12	9	5	13.4	45.9
15-Jun-06	3	9	A	5	19	23	5	6	4	6	4	3	21	15	11	31	9	6	33	9	3	9	12	8	11.1	33.2
16-Jun-06	11	14	A	24	21	16	15	15	8	6	4	5	7	11	11	7	23	10	24	22	28	19	6	21	14.2	28.1
17-Jun-06	14	A	22	19	20	10	26	19	10	11	5	13	18	12	6	22	24	11	6	17	5	15	14	10	14.3	26.3
18-Jun-06	A	13	10	28	10	26	7	4	4	6	4	4	3	3	9	16	9	18	10	8	26	60	28	A	13.9	59.7
19-Jun-06	22	12	12	9	20	19	13	9	8	9	23	16	7	28	8	33	33	10	9	8	8	6	A	14	14.6	33.4
20-Jun-06	10	7	6	5	18	24	10	12	14	17	17	5	7	5	7	8	5	13	25	11	9	A	14	15	11.4	24.8
21-Jun-06	13	5	8	31	12	26	12	21	14	9	14	4	4	5	8	7	8	7	6	33	A	14	16	21	12.9	32.7
22-Jun-06	19	23	23	20	17	15	15	20	23	25	20	4	3	11	2	4	4	8	12	A	12	8	13	9	13.6	25.5
23-Jun-06	14	15	17	11	9	21	32	15	18	18	12	10	7	7	7	27	43	19	A	21	6	16	45	21	17.8	45.0
24-Jun-06	18	20	23	23	23	19	13	28	19	15	6	3	3	3	3	4	4	A	12	5	6	22	13	11	12.8	27.8
25-Jun-06	10	8	17	28	16	7	8	7	12	12	26	3	5	4	7	4	A	8	8	7	28	30	51	37	14.8	50.6
26-Jun-06	27	95	16	12	25	42	23	20	21	14	13	6	3	3	3	A	11	7	5	6	7	12	11	8	16.9	95.4
27-Jun-06	10	7	7	12	11	14	14	11	16	20	5	4	8	34	A	11	44	8	6	14	21	21	37	5	14.8	44.0
28-Jun-06	17	3	3	3	6	41	10	13	7	5	6	28	31	A	20	31	33	10	41	22	17	14	12	8	16.6	41.2
29-Jun-06	36	5	4	20	26	17	12	12	8	6	4	8	A	8	8	8	7	5	4	5	8	8	8	23	10.8	35.9
30-Jun-06	22	12	13	12	18	17	18	7	6	8	14	A	21	6	5	4	18	36	6	22	44	13	6	9	14.8	44.2
Hourly Avg	14.0	14.1	12.0	12.4	13.2	17.1	14.1	12.3	10.1	12.0	10.4	8.9	7.7	9.3	8.7	12.6	15.8	10.6	12.1	11.1	14.9	16.8	13.7	12.7		
Hourly Max	37.9	95.4	23.4	30.7	26.0	41.8	31.7	27.8	23.2	34.5	25.7	39.8	31.4	33.7	29.0	34.0	45.9	36.4	44.4	32.7	44.2	59.7	50.6	42.9		

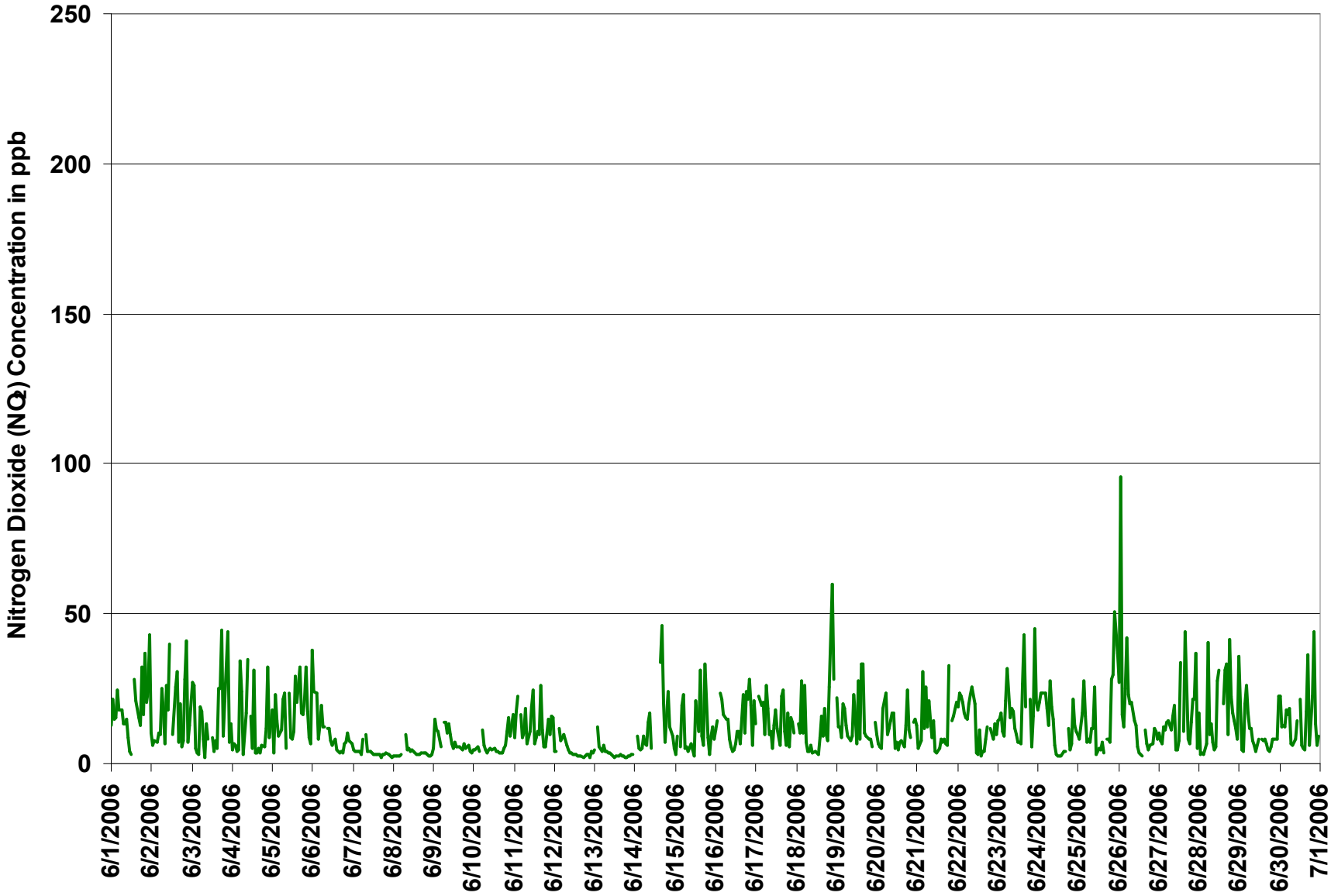
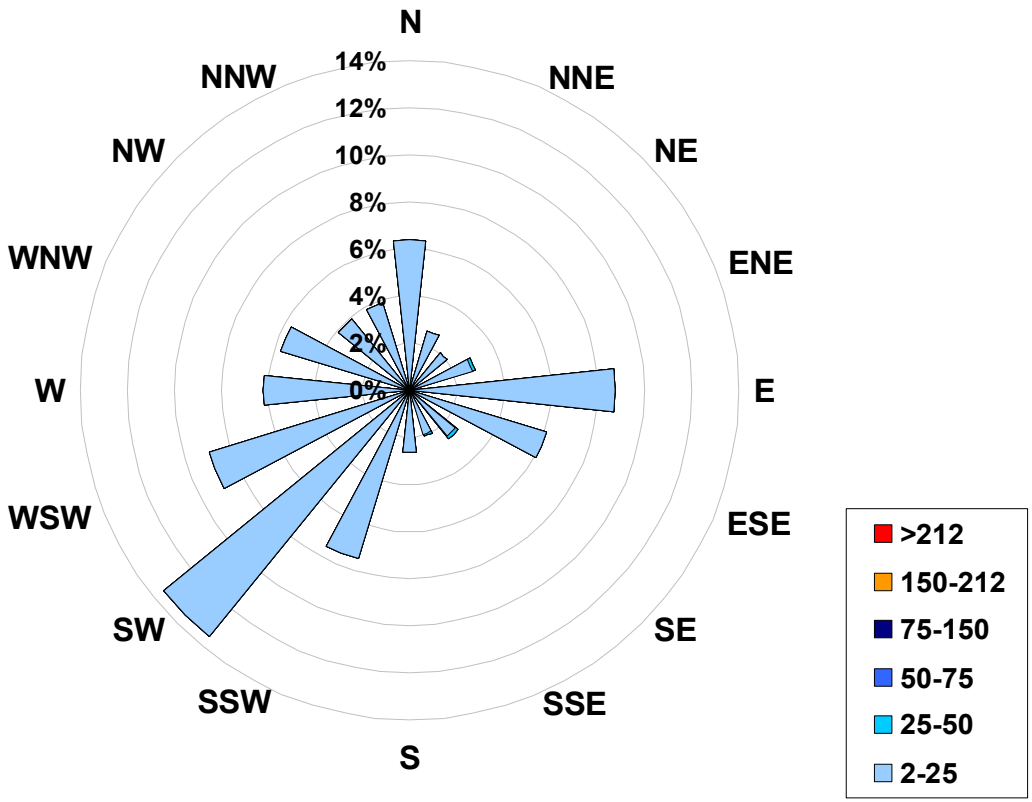


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for June 2006



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	685
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			685

PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

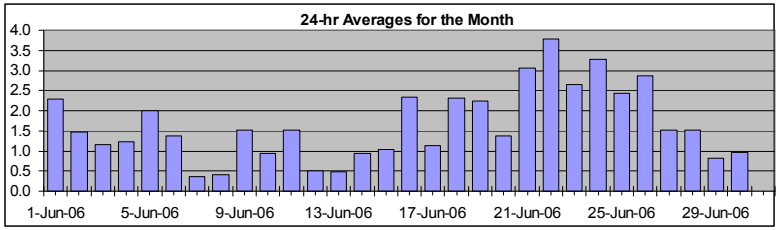
Nitric Oxide (NO)

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

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

Summary

Maximum 1-hr Average:	24.9	ppb	24-Jun	5:00 6:00
Maximum 24-hr Average:	3.8	ppb	22-Jun	



AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	13.8	5.6	1.7	0.8	0.4	0.2	0.1	1.7 ppb	0.8 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

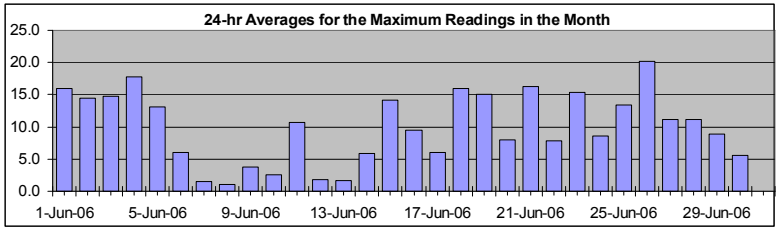
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	1	2	1	0	4	5	4	4	4	5	1	1	1	A	2	1	1	1	2	1	1	0	1	10	2.3	9.5
2-Jun-06	0	0	1	0	0	1	4	6	2	4	2	3	A	1	2	1	1	1	1	1	0	2	1	0	1.5	5.5
3-Jun-06	2	3	0	0	0	2	1	1	1	1	1	A	0	0	1	1	1	4	2	1	1	2	0	0	1.2	3.9
4-Jun-06	0	0	0	0	0	4	4	1	3	2	A	1	1	1	1	0	1	0	0	0	1	7	0	1	1.2	6.7
5-Jun-06	3	0	3	1	1	1	3	4	1	A	2	2	1	2	3	4	6	2	2	1	1	1	1	0	2.0	5.6
6-Jun-06	4	2	1	0	1	3	4	4	A	2	3	2	1	1	1	0	1	0	1	1	0	0	0	0	1.4	3.9
7-Jun-06	0	0	0	0	0	0	1	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
8-Jun-06	0	0	0	0	0	1	A	1	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0.4	0.6
9-Jun-06	0	2	1	1	0	A	4	4	2	4	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1.5	4.4
10-Jun-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.9	1.5
11-Jun-06	0	2	4	A	0	1	2	2	1	2	2	2	1	2	1	2	3	2	1	0	2	0	0	0	1.5	3.8
12-Jun-06	0	0	A	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.5
13-Jun-06	0	A	0	0	0	1	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0.5	1.0
14-Jun-06	A	0	0	0	0	1	1	2	2	2	1	C	C	C	A	2	3	1	0	1	1	0	0	0	1.0	3.1
15-Jun-06	0	0	A	0	1	1	1	1	1	1	1	0	1	2	2	1	1	1	2	2	1	1	1	0	1.0	2.4
16-Jun-06	1	2	A	6	5	3	4	5	3	2	1	1	1	3	4	1	2	1	2	2	1	1	1	1	2.3	5.6
17-Jun-06	0	A	1	0	1	1	2	1	1	1	1	1	2	2	1	2	3	2	1	1	1	1	1	1	1.1	2.8
18-Jun-06	A	1	1	2	1	7	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	17	1	A	2.3	17.2
19-Jun-06	1	1	1	0	3	8	8	3	2	4	6	4	0	1	1	2	3	1	1	0	0	0	A	0	2.2	8.2
20-Jun-06	0	0	0	0	2	4	1	1	2	3	2	1	1	1	1	1	1	2	5	1	1	A	1	1	1.4	5.1
21-Jun-06	1	1	1	5	1	14	9	11	11	3	3	1	1	1	1	1	1	1	1	2	A	1	1	0	3.1	13.8
22-Jun-06	1	3	4	6	6	5	6	20	10	19	3	1	0	1	0	0	0	0	0	A	0	0	0	0	3.8	20.4
23-Jun-06	0	0	0	1	0	10	12	9	10	5	2	1	1	1	1	1	2	2	A	1	0	0	2	1	2.7	11.5
24-Jun-06	1	0	6	2	7	25	7	10	8	5	1	0	0	0	0	0	0	A	0	0	0	0	0	0	3.3	24.9
25-Jun-06	0	0	0	3	1	1	3	2	5	4	3	0	1	1	1	0	A	0	0	0	2	1	14	14	2.4	13.9
26-Jun-06	3	11	1	0	1	6	7	14	11	5	2	1	0	0	0	A	1	0	0	0	0	0	0	0	2.9	14.2
27-Jun-06	0	0	0	1	1	1	5	3	4	2	1	1	1	2	A	1	3	1	1	1	1	1	3	0	1.5	4.7
28-Jun-06	0	0	0	0	0	4	2	4	2	1	1	3	3	A	2	2	4	1	2	1	0	0	0	0	1.5	4.2
29-Jun-06	4	0	0	1	2	1	1	2	1	1	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0.8	4.0
30-Jun-06	0	0	0	0	1	1	1	1	1	2	1	A	2	1	1	1	1	1	1	2	3	1	1	1	1.0	3.2
Hourly Avg	0.9	1.2	1.0	1.2	1.5	3.9	3.5	4.2	3.2	3.0	1.7	1.2	0.9	1.1	1.1	1.1	1.6	1.0	1.1	0.8	0.7	1.4	1.1	1.2		
Hourly Max	4.0	10.6	5.9	6.3	7.2	24.9	11.5	20.4	10.9	19.3	6.3	4.1	3.4	2.7	3.8	4.0	5.6	3.9	5.1	2.3	3.2	17.2	13.9	13.8		

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

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



Summary

Maximum 1-hr Value:	192.7	ppb	26-Jun	1:00 2:00
Maximum 24-hr Value:	20.3	ppb	26-Jun	

AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	101.4	46.9	8.4	2.5	1.5	0.9	0.8	10.0 ppb	2.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / 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-Jun-06	1	9	3	3	10	11	15	7	6	7	3	2	1	A	20	26	16	11	73	31	4	2	3	101	15.9	101.2
2-Jun-06	1	1	3	1	1	3	56	11	3	103	35	53	A	3	21	14	3	5	1	1	2	8	2	2	14.5	102.7
3-Jun-06	53	64	1	1	1	35	20	3	1	7	4	A	2	2	3	3	19	20	49	1	1	45	2	3	14.7	64.3
4-Jun-06	1	1	1	1	1	131	31	2	47	42	A	8	1	43	2	1	3	2	2	2	3	80	1	3	17.8	130.6
5-Jun-06	73	1	25	6	1	2	8	58	2	A	12	3	3	6	32	12	34	5	4	2	3	3	3	2	13.1	73.5
6-Jun-06	71	4	2	1	2	6	5	9	A	5	6	4	3	4	3	2	2	2	1	1	1	2	2	1	6.0	70.6
7-Jun-06	1	1	1	1	1	1	3	A	1	1	2	1	1	2	3	2	2	2	2	2	2	2	2	2	1.6	3.0
8-Jun-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
9-Jun-06	1	8	4	3	2	A	8	7	4	9	5	3	3	6	3	3	3	3	3	3	3	3	2	2	3.8	8.9
10-Jun-06	2	2	2	2	A	2	2	3	2	2	2	3	2	3	2	3	2	3	3	3	3	2	2	4	2.5	4.1
11-Jun-06	3	13	57	A	3	2	8	27	4	16	21	32	3	4	3	4	24	4	3	1	9	2	1	2	10.6	56.7
12-Jun-06	2	2	A	2	2	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.8	3.2
13-Jun-06	2	A	2	2	1	2	3	2	3	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1.6	2.8
14-Jun-06	A	1	2	1	1	5	3	3	18	10	3	C	C	C	A	25	21	2	1	1	12	1	1	1	5.9	24.8
15-Jun-06	1	1	A	1	20	27	2	2	2	35	2	2	20	25	19	15	13	11	51	40	25	6	6	1	14.2	50.6
16-Jun-06	4	5	A	11	11	7	9	13	4	3	2	3	5	7	8	4	21	3	47	34	4	2	2	10	9.5	47.3
17-Jun-06	2	A	2	2	15	3	21	10	5	6	2	4	6	5	2	29	10	3	2	4	1	2	2	2	6.0	28.7
18-Jun-06	A	1	1	43	6	68	11	3	3	4	3	2	2	2	8	26	11	11	3	2	8	123	8	A	16.0	123.1
19-Jun-06	3	1	2	2	27	30	15	7	4	5	19	95	2	32	2	44	46	2	2	2	1	2	A	1	15.1	95.1
20-Jun-06	1	1	1	1	25	52	3	3	3	5	4	2	2	3	3	2	2	5	58	3	2	A	2	2	8.0	58.2
21-Jun-06	2	2	2	142	3	61	12	54	23	5	12	2	3	2	3	3	3	2	2	34	A	2	2	1	16.3	142.5
22-Jun-06	2	7	11	13	10	8	12	28	19	34	13	2	2	8	1	1	2	1	2	A	1	1	1	1	7.8	34.1
23-Jun-06	1	1	12	2	2	81	104	11	12	13	4	2	2	2	2	11	34	6	A	2	1	1	44	3	15.4	104.4
24-Jun-06	3	1	31	13	16	40	15	44	14	7	2	1	1	1	1	1	1	A	2	1	1	1	1	1	8.6	44.4
25-Jun-06	1	1	5	30	3	3	4	3	6	6	26	1	2	2	2	1	A	1	1	1	12	12	159	23	13.4	159.3
26-Jun-06	15	193	4	1	45	96	41	21	21	7	5	2	1	1	1	A	3	1	1	1	1	2	1	1	20.3	192.7
27-Jun-06	1	1	1	12	3	7	9	5	8	56	2	2	4	43	A	4	34	2	2	2	2	3	52	2	11.1	56.2
28-Jun-06	11	1	1	1	1	81	4	8	3	2	2	44	28	A	5	12	16	2	19	10	2	1	2	1	11.2	81.3
29-Jun-06	72	1	1	37	50	11	3	4	2	2	1	2	A	2	2	3	2	1	2	1	1	1	1	2	8.9	72.0
30-Jun-06	1	1	1	1	4	2	16	2	2	4	13	A	9	2	2	2	11	24	2	3	21	2	1	2	5.6	23.6
Hourly Avg	11.8	11.8	6.6	11.6	9.2	26.9	15.4	12.2	7.8	13.8	7.3	10.4	4.1	7.9	5.6	8.8	11.8	4.8	11.7	6.6	4.5	10.8	10.7	6.1		
Hourly Max	73.5	192.7	56.7	142.5	50.3	130.6	104.4	57.6	47.0	102.7	35.0	95.1	27.8	43.4	32.5	43.8	46.4	23.6	72.5	39.7	24.6	123.1	159.3	101.2		

PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

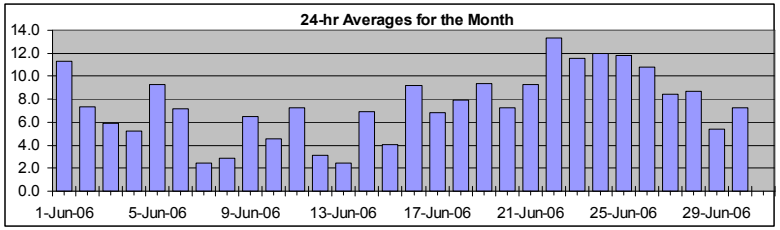
Oxides of Nitrogen (NO_x)

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

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

Summary

Maximum 1-hr Average:	48.3	ppb	25-Jun	22:00 23:00
Maximum 24-hr Average:	13.3	ppb	22-Jun	



AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	30.9	20.2	9.2	5.5	3.5	1.8	1.5	7.5 ppb	5.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	9	11	9	8	20	16	13	14	13	16	4	3	2	A	9	6	5	5	7	11	23	12	12	33	11.3	32.8
2-Jun-06	8	5	4	4	5	7	14	16	5	8	6	8	A	7	7	5	4	6	5	5	14	16	4	5	7.3	16.3
3-Jun-06	9	7	3	3	2	5	4	5	2	5	3	A	6	3	4	4	6	13	7	5	13	13	5	6	5.9	13.5
4-Jun-06	4	5	4	3	4	9	9	3	6	5	A	7	4	5	3	2	3	2	2	3	6	22	5	6	5.2	22.4
5-Jun-06	8	2	8	10	8	9	17	12	3	A	12	8	6	7	10	12	16	8	11	8	20	8	6	5	9.3	19.9
6-Jun-06	12	12	13	5	10	16	12	10	A	10	11	6	4	4	4	3	2	2	3	5	6	6	4	5	7.2	16.5
7-Jun-06	4	3	3	3	3	2	4	A	5	3	3	2	2	2	2	2	1	2	2	2	2	2	2	1	2.4	5.5
8-Jun-06	1	2	2	2	2	2	A	7	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2.8	6.9
9-Jun-06	3	9	9	8	5	A	15	16	9	12	8	7	5	6	5	4	4	3	5	3	4	4	3	2	6.5	16.4
10-Jun-06	3	3	4	3	A	8	5	4	4	3	5	5	4	3	3	2	3	3	3	4	6	11	7	9	4.5	11.2
11-Jun-06	4	9	10	A	13	7	7	8	5	6	5	5	4	7	7	7	10	9	4	3	10	8	10	7	7.2	12.5
12-Jun-06	3	2	A	8	5	8	7	5	4	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3.2	8.2
13-Jun-06	3	A	7	4	3	4	3	3	3	2	2	1	1	1	2	2	2	2	1	1	2	2	3	2	2.5	7.4
14-Jun-06	A	6	4	3	3	4	5	6	7	7	4	C	C	C	A	8	22	8	5	10	13	10	5	3	6.9	22.4
15-Jun-06	2	3	A	4	4	5	5	5	4	4	3	3	4	4	5	5	3	3	6	4	3	5	6	4	4.0	5.8
16-Jun-06	7	9	A	24	21	13	14	16	8	5	4	4	4	8	9	3	8	5	7	9	13	10	4	6	9.2	23.7
17-Jun-06	8	A	18	11	8	6	8	5	6	5	3	6	10	7	3	8	12	8	3	5	3	5	5	5	6.9	17.6
18-Jun-06	A	10	8	9	5	15	4	4	5	6	3	3	2	2	4	3	4	4	5	4	12	44	18	A	7.9	43.6
19-Jun-06	14	11	8	7	13	17	17	7	7	11	18	9	2	5	5	9	14	9	6	5	5	4	A	11	9.4	18.3
20-Jun-06	8	6	4	4	8	9	8	8	9	15	10	4	4	4	4	4	4	8	15	7	6	A	9	9	7.3	15.3
21-Jun-06	7	4	5	13	11	26	18	20	22	7	8	3	3	3	5	4	5	4	5	8	A	12	12	11	9.3	26.1
22-Jun-06	14	22	22	24	21	18	16	38	27	42	12	3	2	3	2	2	2	3	6	A	8	7	8	6	13.3	42.2
23-Jun-06	7	9	8	9	9	25	27	22	25	15	8	5	6	4	5	5	10	10	A	11	5	9	19	13	11.6	26.6
24-Jun-06	11	13	27	21	26	40	17	22	22	17	3	2	2	2	2	2	3	A	7	4	3	12	9	8	12.0	39.8
25-Jun-06	8	6	9	22	13	8	8	6	15	13	10	2	3	4	4	2	A	6	5	4	15	18	48	43	11.8	48.3
26-Jun-06	21	26	11	9	10	16	17	31	26	17	11	4	2	2	2	A	5	4	3	4	5	7	9	5	10.8	30.5
27-Jun-06	7	5	6	7	10	9	15	9	13	5	4	3	5	5	A	10	12	7	6	8	15	18	13	3	8.5	18.0
28-Jun-06	2	2	2	2	4	12	9	12	6	4	4	9	12	A	15	12	19	6	16	14	13	11	9	5	8.7	18.6
29-Jun-06	12	3	2	5	6	6	8	10	6	5	3	4	A	6	5	5	4	3	3	4	6	7	5	7	5.4	11.9
30-Jun-06	9	9	11	10	11	7	6	5	4	6	3	A	9	5	4	4	4	5	4	16	21	7	3	4	7.3	21.2
Hourly Avg	7.4	7.7	8.2	8.4	8.9	11.3	10.7	11.4	9.5	9.0	6.1	4.4	4.2	4.3	4.8	4.8	6.6	5.2	5.5	5.9	8.8	10.1	8.5	8.0		
Hourly Max	21.3	25.7	27.1	23.7	26.0	39.8	26.6	37.6	26.8	42.2	18.3	9.3	12.2	7.5	15.4	12.2	22.4	13.5	15.8	15.5	23.3	43.6	48.3	42.7		

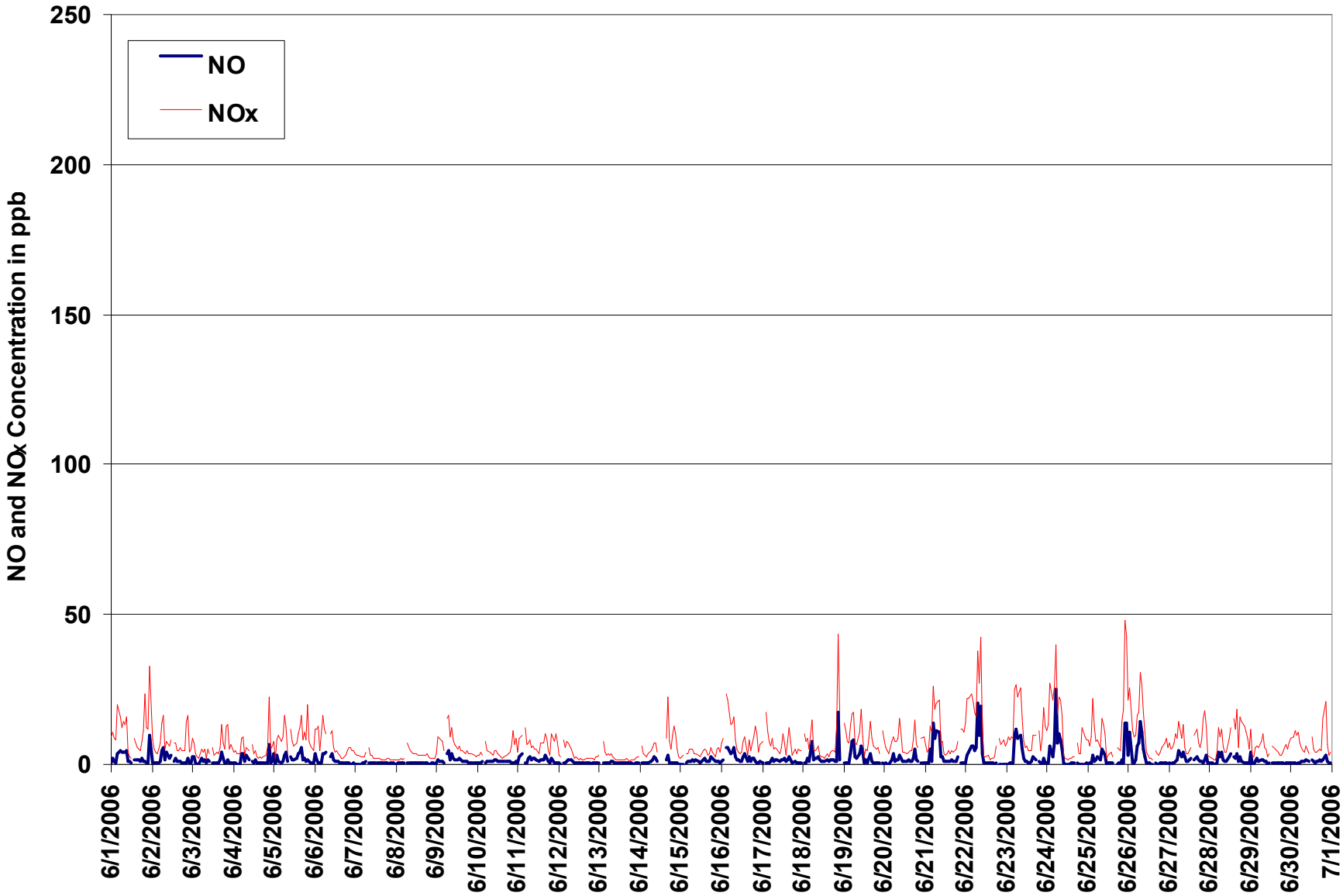


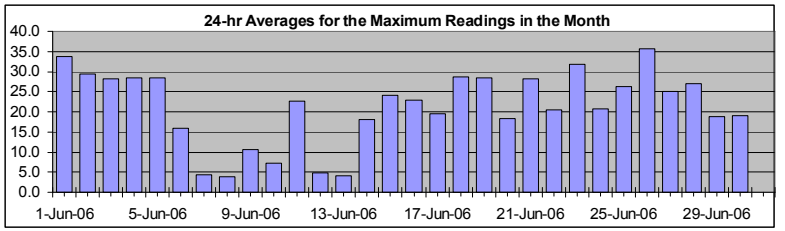
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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



Summary

Maximum 1-hr Value:	272.1	ppb	26-Jun	1:00 2:00
Maximum 24-hr Value:	35.6	ppb	26-Jun	

AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	133.4	76.2	23.7	11.4	5.9	3.1	2.6	21.2 ppb	11.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	14	29	16	18	35	28	32	20	18	21	12	5	4	A	48	46	27	22	100	46	41	22	27	142	33.7	141.9
2-Jun-06	11	6	10	8	11	11	80	27	9	116	47	91	A	12	45	44	9	25	6	8	30	47	7	14	29.4	116.4
3-Jun-06	70	88	6	4	3	52	35	11	3	20	11	A	10	5	9	6	39	42	93	10	22	89	7	15	28.3	93.4
4-Jun-06	5	7	7	4	4	163	55	4	55	75	A	24	5	74	4	3	5	4	7	7	13	101	9	17	28.4	162.8
5-Jun-06	89	3	44	19	10	13	28	80	7	A	36	12	11	17	58	30	64	21	20	23	35	19	9	7	28.5	89.0
6-Jun-06	107	27	24	9	14	23	17	20	A	16	18	12	8	12	6	5	4	4	4	7	8	10	7	7	16.0	107.3
7-Jun-06	5	4	4	4	4	4	11	A	11	4	5	5	3	3	4	3	3	3	4	4	4	4	3	3	4.3	10.9
8-Jun-06	3	3	2	3	3	3	A	10	5	6	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3.9	10.0
9-Jun-06	6	23	15	15	6	A	21	21	14	21	14	9	7	12	8	7	6	6	7	6	6	7	4	4	10.6	22.5
10-Jun-06	6	6	6	5	A	12	7	6	5	5	7	6	5	5	4	4	4	5	6	7	12	16	10	19	7.3	19.1
11-Jun-06	11	29	77	A	17	9	18	45	10	26	37	54	7	11	13	13	49	14	7	6	23	11	17	16	22.6	77.4
12-Jun-06	4	5	A	12	8	10	10	7	5	4	4	4	3	5	3	3	3	3	3	3	3	2	5	3	4.8	12.3
13-Jun-06	4	A	13	6	5	7	6	5	5	4	4	3	3	3	3	3	4	3	2	2	3	3	3	3	4.2	12.5
14-Jun-06	A	10	5	4	4	13	10	9	32	24	7	C	C	C	A	57	64	21	7	17	34	12	9	5	18.1	64.1
15-Jun-06	3	9	A	6	39	50	6	7	5	40	7	4	41	38	25	45	22	17	79	43	27	15	18	9	24.1	78.7
16-Jun-06	14	19	A	34	32	23	23	26	11	8	6	6	9	16	19	10	44	13	70	51	32	21	8	28	22.8	70.5
17-Jun-06	14	A	24	20	35	12	47	28	14	16	7	16	24	15	7	46	33	13	7	20	5	17	15	11	19.5	47.1
18-Jun-06	A	14	11	70	17	89	19	6	7	10	5	6	4	4	17	42	18	30	12	9	34	174	36	A	28.8	173.9
19-Jun-06	24	13	12	9	45	47	27	16	12	14	42	103	8	60	10	77	79	11	10	8	9	6	A	14	28.5	103.2
20-Jun-06	10	7	6	5	40	73	12	13	17	20	21	6	8	6	9	9	6	16	84	13	10	A	15	16	18.4	83.7
21-Jun-06	14	6	9	171	13	86	23	75	37	13	27	5	6	6	10	9	10	9	7	61	A	15	17	21	28.2	171.1
22-Jun-06	19	27	32	33	26	21	25	47	42	58	33	4	4	18	3	5	4	9	15	A	13	9	13	9	20.5	58.4
23-Jun-06	15	15	28	12	11	98	133	24	29	29	16	12	8	9	8	36	70	25	A	23	6	16	84	23	31.7	132.6
24-Jun-06	20	22	53	36	38	58	27	70	32	21	8	3	3	3	3	4	4	A	12	5	6	22	13	12	20.6	69.9
25-Jun-06	10	9	21	56	17	9	12	10	18	17	49	3	7	5	8	4	A	8	9	8	38	40	191	53	26.1	191.0
26-Jun-06	41	272	19	13	69	138	64	41	41	20	17	7	4	3	3	A	14	6	5	6	7	12	11	8	35.6	272.1
27-Jun-06	10	8	7	24	13	20	22	16	23	71	6	6	10	77	A	15	78	10	7	14	22	22	89	5	25.0	88.9
28-Jun-06	28	4	4	3	7	121	12	21	10	5	6	65	60	A	24	42	49	11	62	31	19	14	14	9	27.1	121.2
29-Jun-06	106	4	4	54	76	28	14	15	9	8	4	10	A	10	9	10	7	5	4	6	8	8	8	23	18.8	105.9
30-Jun-06	23	12	13	12	21	19	35	8	7	11	26	A	29	7	5	5	29	60	6	23	60	14	6	7	19.1	60.1
Hourly Avg	24.5	24.3	17.5	23.0	21.5	42.8	28.7	23.7	17.1	24.3	16.8	18.0	10.9	16.3	13.1	20.3	25.9	14.5	22.8	16.2	18.3	25.9	22.7	17.5		
Hourly Max	107.3	272.1	77.4	171.1	76.4	162.8	132.6	80.0	55.4	116.4	48.9	103.2	59.5	76.7	58.0	76.9	79.1	59.7	100.3	60.9	60.1	173.9	191.0	141.9		

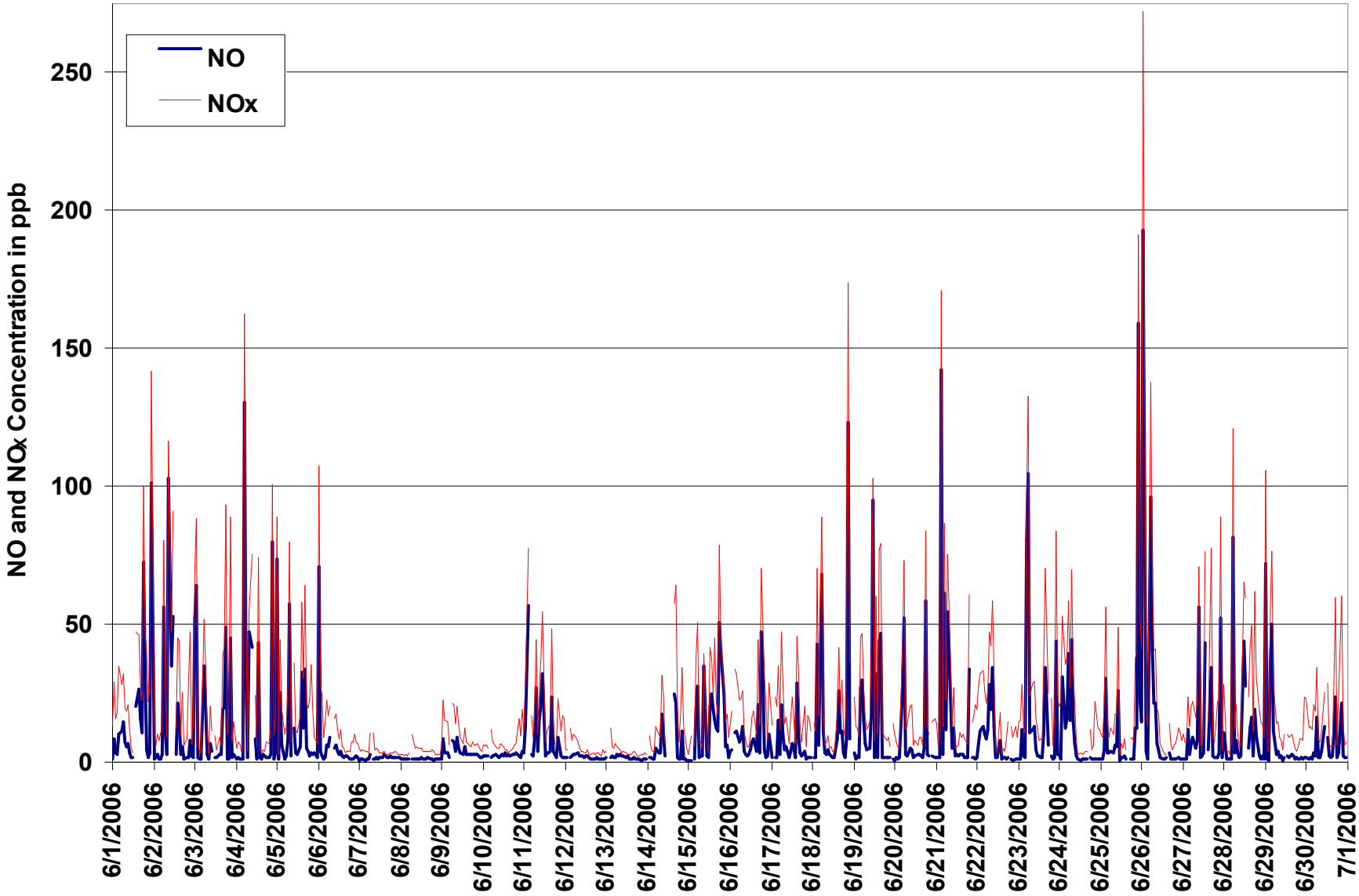


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PAS - Crescent Heights - Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O_3)

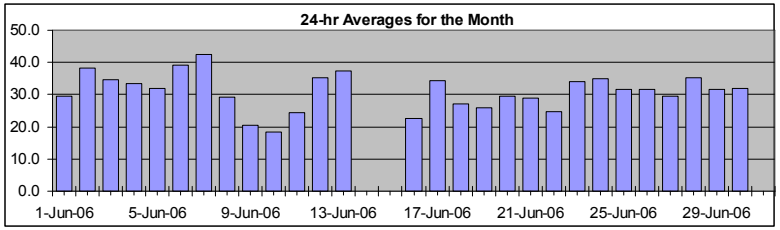
Station: Crescent Heights
Station Owner: PAS

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

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	61.3	ppb	24-Jun	16:00 17:00
Maximum 24-hr Average:	42.4	ppb	7-Jun	



AIC Time:	31 hrs	Operational Time:	668 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	97.6%

Percentile	99	95	75	50	25	5	1	Average	Median
	56.5	52.7	40.2	31.3	21.6	10.5	4.6	30.9 ppb	31.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	14	13	14	15	8	13	22	27	32	36	47	48	50	A	48	49	49	49	46	37	20	20	16	8	29.6	50.0
2-Jun-06	27	30	34	36	33	32	25	26	37	38	42	46	A	55	53	56	56	53	47	46	33	26	29	24	38.4	56.2
3-Jun-06	22	22	22	22	23	27	27	33	39	36	39	A	43	48	49	47	46	45	46	41	32	28	33	26	34.6	49.2
4-Jun-06	25	24	28	26	27	28	27	31	32	39	A	43	45	45	45	44	43	42	39	36	32	22	25	22	33.5	45.3
5-Jun-06	21	26	22	15	17	21	19	26	39	A	39	41	42	41	36	37	38	46	42	39	27	36	32	30	31.9	46.2
6-Jun-06	28	26	26	31	25	18	25	32	A	36	38	46	49	51	53	54	55	56	56	51	43	38	35	31	39.2	55.8
7-Jun-06	35	36	35	37	35	32	30	A	40	44	47	48	51	50	50	50	49	47	46	44	43	44	42	40	42.4	50.6
8-Jun-06	39	40	38	37	40	39	A	37	39	37	35	32	29	25	23	22	21	20	19	21	22	20	19	18	29.2	40.1
9-Jun-06	15	10	8	10	13	A	10	12	20	18	20	22	24	27	28	29	30	27	26	24	24	24	23	24	20.3	29.9
10-Jun-06	21	19	17	18	A	18	17	16	16	19	17	17	19	19	20	22	23	24	22	21	17	13	17	14	18.5	23.7
11-Jun-06	16	14	13	A	10	15	15	16	18	21	30	33	39	33	33	31	32	35	39	35	25	23	17	20	24.5	39.2
12-Jun-06	25	26	A	24	26	20	23	29	33	37	39	41	42	44	44	45	45	45	45	42	38	37	34	31	35.4	44.9
13-Jun-06	29	A	24	27	29	30	28	27	31	38	41	42	43	46	46	47	48	48	46	42	38	35	35	36	37.2	48.2
14-Jun-06	A	37	39	38	38	34	32	30	33	36	42	43	41	C	C	M	M	M	M	M	M	M	M	M	N	42.8
15-Jun-06	M	M	M	M	M	M	M	M	C	C	A	27	27	27	26	25	24	22	20	20	19	17	17	18	N	27.2
16-Jun-06	16	14	A	8	8	11	11	12	19	27	31	36	39	32	29	31	24	24	21	18	23	28	30	28	22.6	38.7
17-Jun-06	24	A	16	22	23	25	27	36	39	43	45	41	35	39	43	41	38	39	39	34	36	36	34	32	34.3	45.0
18-Jun-06	A	21	20	21	18	15	21	20	23	25	31	34	37	38	36	37	36	36	36	36	28	12	12	A	27.0	37.8
19-Jun-06	11	8	10	11	8	9	11	21	25	28	27	35	40	38	53	44	29	32	32	29	31	36	A	29	26.0	53.4
20-Jun-06	27	26	27	24	19	19	25	36	38	30	34	43	38	34	31	32	33	31	23	24	24	A	28	26	29.4	42.7
21-Jun-06	30	29	22	15	11	11	11	12	17	32	35	40	42	44	43	42	43	42	38	34	A	29	23	19	28.8	43.7
22-Jun-06	13	6	5	2	3	5	8	6	11	8	27	40	42	44	44	44	43	40	40	A	38	34	31	36	24.7	44.1
23-Jun-06	32	27	21	19	16	10	13	17	20	32	43	48	49	50	49	54	54	53	A	46	43	35	25	25	34.0	54.3
24-Jun-06	24	14	2	5	4	3	13	18	29	35	51	54	55	57	58	60	61	A	59	55	55	39	29	22	34.9	61.3
25-Jun-06	20	22	17	8	9	14	16	26	26	32	40	53	56	58	53	53	A	53	53	49	34	27	6	2	31.6	57.7
26-Jun-06	7	10	11	10	10	12	16	15	23	32	42	54	57	56	56	A	56	54	53	47	38	26	18	20	31.5	56.6
27-Jun-06	17	20	18	16	16	19	19	27	33	39	40	42	42	43	A	42	40	41	42	37	16	11	25	36	29.7	42.5
28-Jun-06	37	36	36	37	33	24	23	23	33	39	40	43	47	A	50	50	45	51	42	34	27	23	20	20	35.3	51.1
29-Jun-06	19	25	25	23	23	28	31	25	32	27	32	34	A	38	41	43	42	43	40	37	32	30	30	25	31.5	42.8
30-Jun-06	22	20	14	14	13	18	29	26	29	34	42	A	45	46	46	46	44	44	41	26	22	39	39	33	31.9	46.4
Hourly Avg	22.8	22.2	20.9	20.4	19.2	19.6	20.5	23.6	28.8	32.0	37.0	40.2	41.6	41.8	42.5	42.1	41.0	40.8	39.2	35.9	30.7	28.2	25.8	24.8		
Hourly Max	39.4	39.8	38.8	37.8	40.1	38.5	31.8	36.6	40.0	43.8	51.1	54.3	56.6	57.7	58.5	60.1	61.3	55.8	58.8	55.3	55.3	44.1	41.6	40.1		

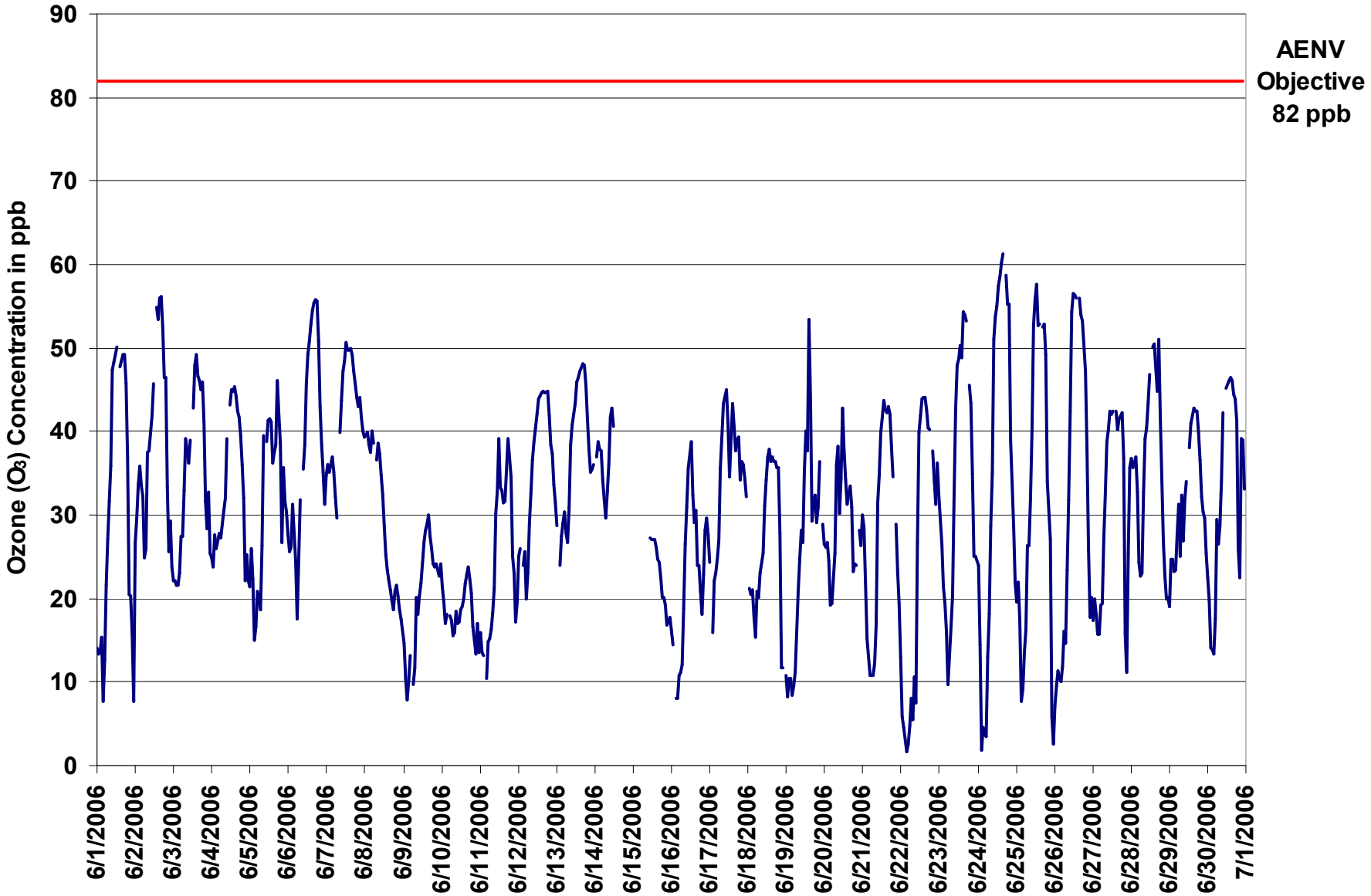


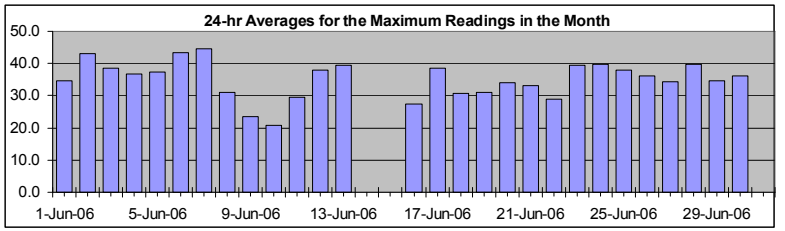
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

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



Summary

Maximum 1-hr Value:	83.1	ppb	25-Jun	12:00 13:00
Maximum 24-hr Value:	44.5	ppb	7-Jun	

AIC Time:	31 hrs	Operational Time:	668 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	97.6%

Percentile	99	95	75	50	25	5	1	Average	Median
	60.9	55.7	44.2	35.4	25.4	15.1	9.7	35.0 ppb	35.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	17	18	17	19	15	21	27	31	37	43	50	51	52	A	51	52	52	52	51	44	34	22	21	26	34.8	52.0
2-Jun-06	31	31	37	39	38	35	29	35	41	42	47	50	A	58	57	59	59	57	49	52	46	35	33	28	43.0	59.5
3-Jun-06	27	26	24	24	26	30	29	38	41	40	42	A	47	52	53	50	51	51	51	45	38	37	35	30	38.7	52.9
4-Jun-06	27	26	31	28	29	31	32	33	36	43	A	47	47	47	48	46	45	44	43	40	35	35	29	27	36.8	48.1
5-Jun-06	24	27	26	19	19	24	26	36	43	A	45	46	45	45	42	44	47	52	49	44	42	42	35	33	37.3	51.6
6-Jun-06	34	33	35	34	29	23	30	38	A	40	45	50	53	53	55	56	57	58	57	55	48	41	37	36	43.4	57.7
7-Jun-06	38	38	37	40	37	37	32	A	42	47	49	51	52	51	51	51	51	48	47	46	44	45	44	43	44.5	52.4
8-Jun-06	42	41	41	40	42	41	A	38	40	40	37	35	32	28	24	23	23	21	20	24	23	22	20	19	31.1	41.8
9-Jun-06	17	15	12	15	15	A	13	16	25	23	23	25	26	30	31	31	33	29	29	27	28	28	24	26	23.6	32.6
10-Jun-06	24	22	19	19	A	19	19	17	19	20	19	19	20	21	22	24	25	25	25	23	21	18	19	17	20.7	25.5
11-Jun-06	17	19	18	A	14	17	18	18	21	29	34	42	42	38	41	36	38	42	43	37	33	28	27	31	29.6	43.0
12-Jun-06	27	29	A	31	32	23	28	31	36	38	40	42	44	46	46	47	47	46	46	44	41	39	37	33	38.0	46.8
13-Jun-06	31	A	25	30	32	32	32	29	35	41	43	44	46	47	48	49	50	50	48	44	40	37	37	38	39.3	49.6
14-Jun-06	A	40	41	39	40	39	36	35	38	43	44	48	45	C	C	M	M	M	M	M	M	M	M	M	N	47.5
15-Jun-06	M	M	M	M	M	M	M	M	C	C	A	29	28	29	28	27	26	24	23	22	20	20	20	20	N	29.0
16-Jun-06	24	19	A	17	16	15	15	17	25	29	34	40	41	40	34	33	30	26	23	21	33	34	32	31	27.3	41.0
17-Jun-06	30	A	20	28	26	29	32	41	43	47	47	46	42	45	47	47	45	43	41	40	41	41	37	35	38.7	46.9
18-Jun-06	A	26	23	25	20	20	22	22	24	31	33	37	39	40	38	39	38	39	39	37	34	29	15	A	30.6	40.0
19-Jun-06	13	10	12	13	11	19	16	25	28	34	35	41	42	47	58	54	36	36	38	33	34	40	A	35	30.9	57.6
20-Jun-06	32	31	29	27	23	24	33	42	43	37	44	45	40	40	35	39	37	35	29	30	28	A	31	31	34.1	44.9
21-Jun-06	33	31	27	19	16	17	13	15	31	37	39	43	44	46	46	45	46	45	43	42	A	32	28	27	33.2	45.9
22-Jun-06	17	12	13	7	8	7	10	11	19	14	36	42	44	46	45	46	45	45	47	A	40	38	35	42	29.1	46.6
23-Jun-06	38	32	30	24	19	18	18	20	23	44	47	50	52	54	52	63	61	59	A	51	46	41	37	30	39.5	62.9
24-Jun-06	30	25	6	12	9	7	21	21	43	43	54	56	58	60	61	63	64	A	61	58	57	50	34	26	39.9	63.8
25-Jun-06	27	26	25	12	15	15	23	30	29	36	49	57	83	61	57	54	A	54	56	53	46	38	16	7	37.8	83.1
26-Jun-06	13	17	16	15	13	16	20	18	35	39	50	58	59	59	57	A	59	56	56	51	44	34	20	22	36.0	59.0
27-Jun-06	20	23	23	20	19	25	27	31	40	41	43	45	45	45	A	45	44	45	45	43	28	19	34	38	34.3	45.4
28-Jun-06	38	37	38	38	36	28	25	30	39	41	42	51	53	A	56	56	54	55	49	42	31	25	25	24	39.6	55.7
29-Jun-06	24	27	27	26	25	32	37	29	37	32	34	36	A	41	44	45	44	44	43	39	35	32	32	31	34.6	45.3
30-Jun-06	25	25	15	16	19	25	34	30	33	38	46	A	49	48	48	48	46	46	45	36	31	47	43	38	36.2	48.6
Hourly Avg	26.7	26.2	24.7	24.1	22.9	24.0	24.8	27.8	33.7	36.8	41.1	43.7	45.3	45.0	45.6	45.5	44.7	43.9	42.7	40.1	36.4	33.9	29.9	29.5		
Hourly Max	41.8	41.0	41.3	40.3	41.5	41.3	36.6	42.2	43.2	47.3	54.0	58.0	83.1	60.8	61.1	63.2	63.8	59.3	61.4	57.9	57.1	50.2	43.8	43.2		

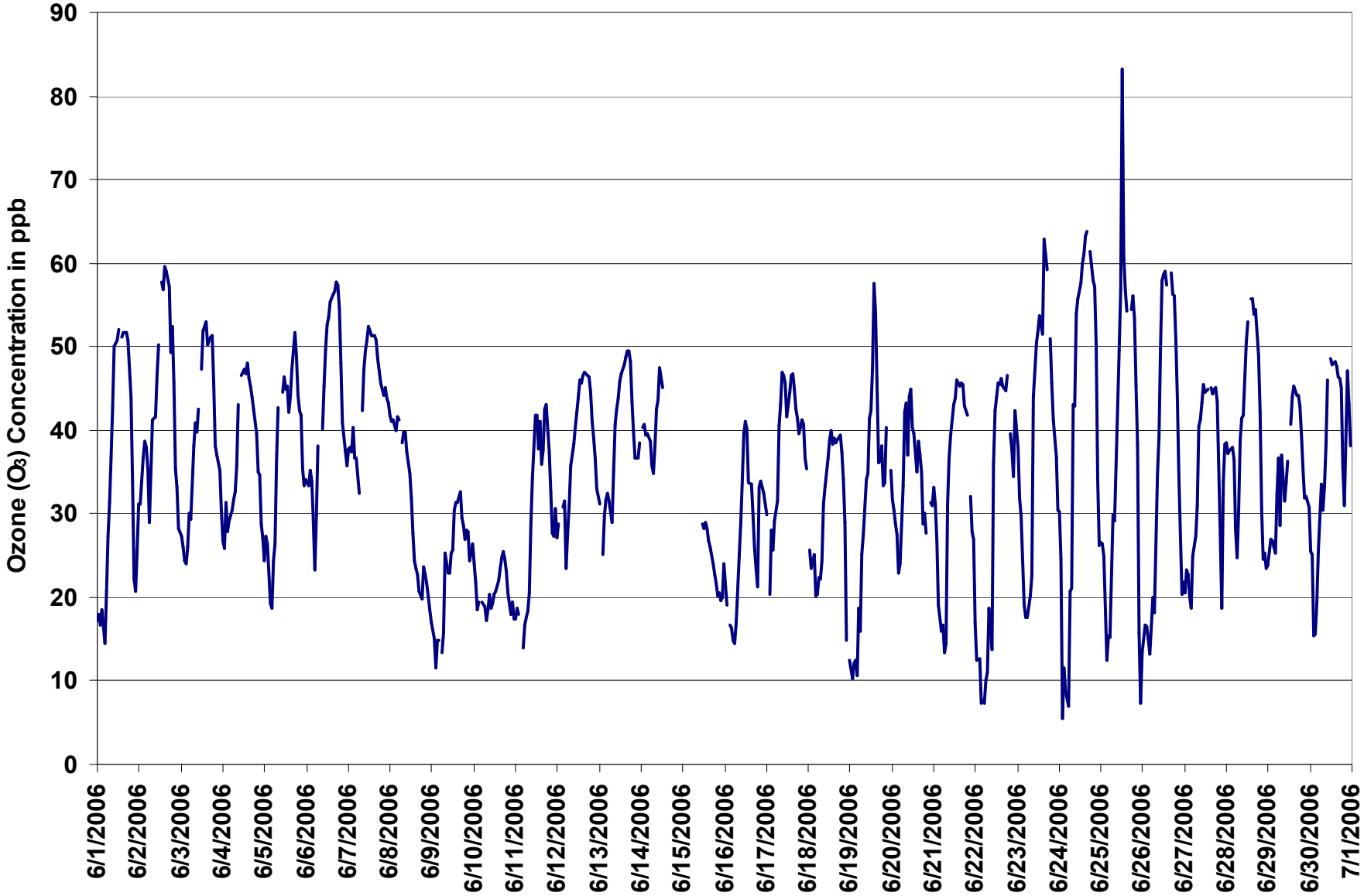
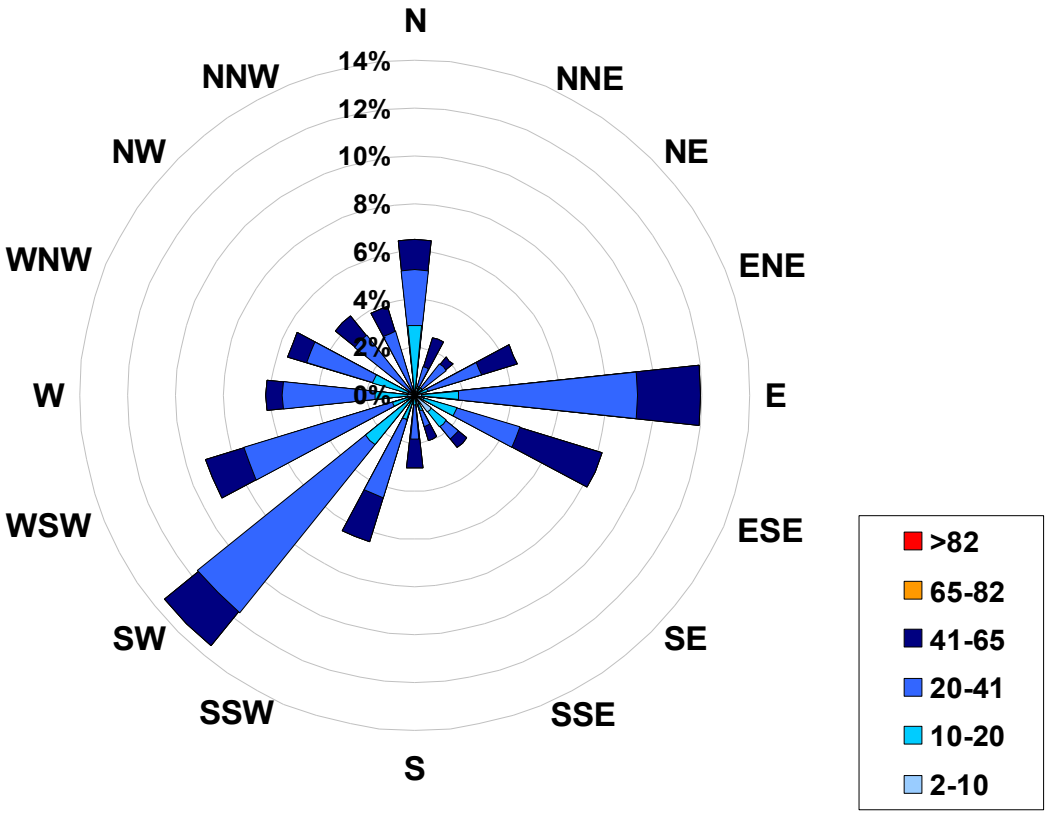


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Crescent Heights Site for June 2006



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	28
10	to	20	112
20	to	41	369
41	to	65	159
65	to	82	0
	>	82	0
Total Non-Zero Values			668

PAS - Crescent Heights - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

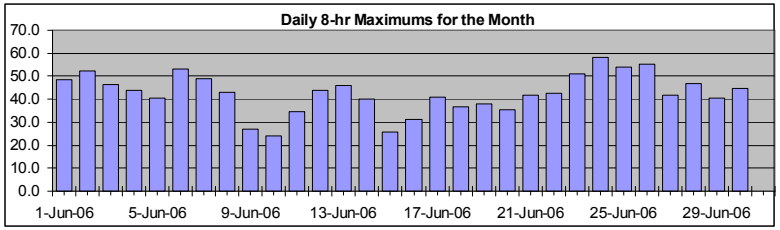
Station: Crescent Heights
Station Owner: PAS

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

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	58.1	ppb	24-Jun	20:00 21:00



Percentile	99	95	75	50	25	5	1
	54.0	48.6	38.7	30.9	23.5	13.8	9.8

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jun-06	38	34	30	26	22	18	16	16	18	21	25	29	34	37	41	44	47	49	48	47	43	40	36	31	48.7
2-Jun-06	28	25	24	24	25	27	28	30	32	33	34	35	35	38	42	47	49	52	52	52	50	46	43	39	52.3
3-Jun-06	35	31	28	25	24	24	24	25	27	29	31	32	35	38	41	43	44	45	46	46	44	42	40	37	46.2
4-Jun-06	34	32	29	28	27	27	26	27	28	30	30	32	35	37	40	42	43	44	43	42	41	38	35	33	43.9
5-Jun-06	30	28	26	23	21	21	20	21	23	23	25	29	32	35	38	39	39	40	41	40	38	38	37	36	40.6
6-Jun-06	35	32	30	29	29	27	26	26	26	27	29	31	35	39	43	47	48	50	52	53	52	51	49	46	53.1
7-Jun-06	43	41	38	36	35	35	34	34	35	36	38	39	42	44	47	47	49	49	49	48	47	47	46	44	49.0
8-Jun-06	43	42	41	40	40	39	39	39	38	38	38	37	35	33	32	30	28	26	24	22	22	21	20	20	43.1
9-Jun-06	19	18	16	15	14	13	12	11	12	13	15	16	18	19	21	24	25	26	27	27	27	27	26	25	26.9
10-Jun-06	24	23	22	21	21	20	19	18	17	17	17	17	17	17	18	18	19	20	21	21	21	20	20	19	24.2
11-Jun-06	18	17	15	15	14	14	14	14	15	16	18	20	24	26	28	30	32	33	34	35	33	32	30	28	34.7
12-Jun-06	27	26	24	23	23	23	23	25	26	27	29	31	33	36	38	40	42	43	44	44	43	43	41	40	43.9
13-Jun-06	38	37	34	32	30	29	28	28	28	29	31	33	35	37	39	42	44	45	46	46	45	44	42	41	45.8
14-Jun-06	40	38	37	37	37	37	36	35	35	35	35	36	36	37	N	N	N	N	N	N	N	N	N	N	39.9
15-Jun-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	26	25	24	23	22	21	20	25.6
16-Jun-06	19	18	17	16	14	13	12	12	12	14	16	19	23	26	28	30	31	31	29	27	25	25	25	24	31.0
17-Jun-06	24	24	24	24	24	24	24	25	27	29	32	35	36	38	40	41	41	40	39	38	39	38	37	36	40.8
18-Jun-06	36	33	31	29	26	23	21	20	20	21	22	24	26	29	31	33	34	36	36	37	35	32	29	28	36.5
19-Jun-06	24	20	17	13	10	10	10	11	13	15	18	21	25	28	33	36	37	37	38	37	36	36	33	31	38.0
20-Jun-06	31	30	29	29	27	24	25	26	27	27	28	31	33	35	36	35	35	35	33	31	29	28	28	27	35.6
21-Jun-06	27	26	26	25	23	21	19	18	16	16	18	21	25	29	33	37	40	41	42	41	41	39	36	33	41.7
22-Jun-06	28	23	19	14	12	9	7	6	5	6	8	13	18	23	28	32	36	40	42	42	42	40	39	38	42.5
23-Jun-06	36	34	31	30	27	24	22	19	18	19	21	25	29	34	38	43	47	50	51	51	50	48	44	40	51.0
24-Jun-06	36	30	27	22	17	13	11	10	11	14	20	26	32	39	45	50	54	57	58	58	55	51	46		58.1
25-Jun-06	40	37	32	26	21	17	16	17	17	19	21	27	33	38	43	46	49	52	54	53	50	46	39	32	53.8
26-Jun-06	29	24	18	13	11	9	10	11	13	16	20	26	31	37	42	46	51	54	55	54	52	47	42	39	55.2
27-Jun-06	34	30	25	22	19	18	18	19	21	23	26	29	33	36	38	40	41	42	42	41	37	33	32	31	41.9
28-Jun-06	31	30	29	29	31	33	33	31	31	31	32	32	34	35	39	43	45	47	47	46	43	40	36	33	46.8
29-Jun-06	29	26	24	23	22	23	24	25	27	27	28	29	30	31	33	35	37	39	40	40	39	38	37	35	40.5
30-Jun-06	32	30	26	23	21	19	19	20	20	22	26	27	32	36	38	41	43	45	45	42	40	39	38	36	44.9
Hourly Max	43.1	42.2	41.3	40.5	40.1	39.4	39.1	38.6	38.5	38.2	37.8	39.5	41.7	44.2	47.1	49.9	54.0	56.8	57.9	58.1	58.1	55.4	51.2	45.7	

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

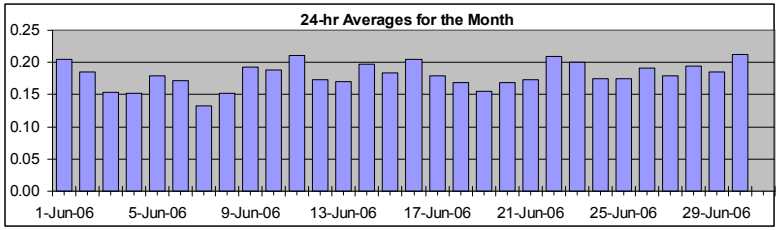
Station: Crescent Heights
Station Owner: PAS

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

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.5	ppm	22-Jun	9:00 10:00
Maximum 24-hr Value:	0.2	ppm	30-Jun	



AIC Time:	32 hrs	Operational Time:	686 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.20	0.40
2-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.19	0.32
3-Jun-06	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.19
4-Jun-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.21
5-Jun-06	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	A	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.28
6-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.17	0.24
7-Jun-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.16
8-Jun-06	0.1	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.15	0.17
9-Jun-06	0.1	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.28
10-Jun-06	0.1	0.2	0.1	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	0.19	0.24
11-Jun-06	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.21	0.30
12-Jun-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.20
13-Jun-06	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.20
14-Jun-06	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	C	C	A	0.3	0.3	0.2	0.2	0.2	0.20	0.31
15-Jun-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.21
16-Jun-06	0.2	0.2	A	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	0.2	0.2	0.2	0.2	0.20	0.26
17-Jun-06	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	0.2	0.18	0.21
18-Jun-06	A	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.3	A	0.17	0.48
19-Jun-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.16	0.23
20-Jun-06	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.17	0.20
21-Jun-06	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.17	0.25
22-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.21	0.54
23-Jun-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.3	0.2	0.20	0.28
24-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.3	0.2	0.1	0.17	0.30
25-Jun-06	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.3	0.4	0.5	0.4	0.18	0.48
26-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.19	0.31
27-Jun-06	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.18	0.29
28-Jun-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.2	0.19	0.36
29-Jun-06	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.25
30-Jun-06	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	0.3	0.3	0.2	0.2	0.2	0.21	0.30
Hourly Avg	0.17	0.16	0.16	0.16	0.17	0.18	0.21	0.21	0.19	0.19	0.17	0.16	0.15	0.17	0.16	0.16	0.17	0.17	0.18	0.20	0.22	0.22	0.20	0.18		
Hourly Max	0.23	0.21	0.24	0.24	0.23	0.27	0.28	0.35	0.34	0.54	0.23	0.21	0.21	0.31	0.21	0.25	0.24	0.22	0.24	0.36	0.40	0.48	0.48	0.39		

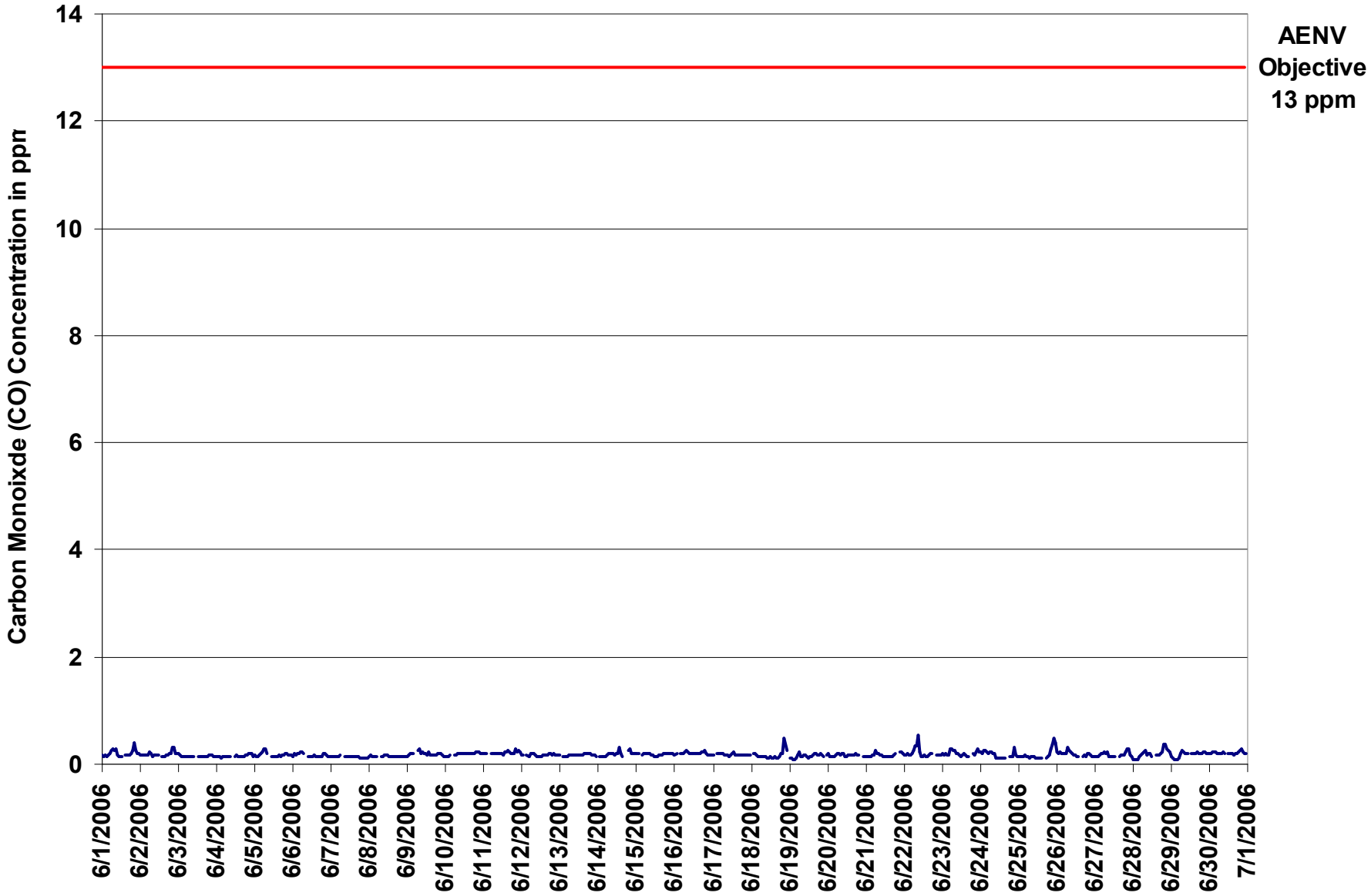


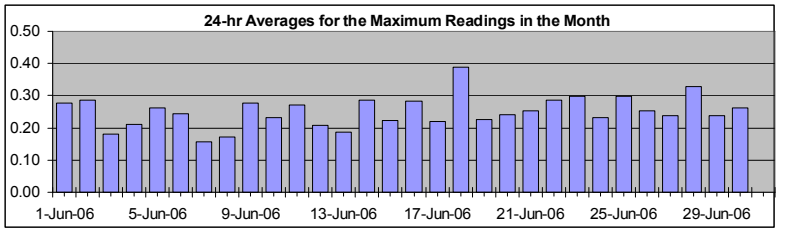
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

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



Summary

Maximum 1-hr Value:	3.5	ppm	18-Jun	21:00 22:00
Maximum 24-hr Value:	0.4	ppm	18-Jun	

AIC Time:	32 hrs	Operational Time:	686 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.5	0.3	0.2	0.2	0.1	0.1	0.3 ppm	0.2 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.4	0.3	0.3	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.2	0.2	0.28	0.63
2-Jun-06	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	0.2	0.2	0.3	0.2	A	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.6	0.7	0.2	0.2	0.29	0.75
3-Jun-06	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.18	0.25
4-Jun-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.1	0.8	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.21	0.84
5-Jun-06	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.4	0.3	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.6	0.2	0.2	0.2	0.26	0.60
6-Jun-06	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.1	0.2	0.25	0.39
7-Jun-06	0.1	0.1	0.1	0.1	0.1	0.1	0.3	A	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.16	0.29
8-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.17	0.21
9-Jun-06	0.2	0.2	0.2	0.2	0.2	A	0.7	0.5	0.3	0.3	0.2	0.2	0.2	0.5	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28	0.74
10-Jun-06	0.1	0.3	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.23	0.30
11-Jun-06	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.7	0.2	0.3	0.4	0.27	0.69
12-Jun-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.49
13-Jun-06	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	0.2	0.19	0.23
14-Jun-06	A	0.2	0.2	0.2	0.2	0.2	0.6	0.3	0.2	0.2	0.2	0.3	0.3	0.9	0.4	0.2	C	C	A	0.3	0.4	0.2	0.2	0.2	0.29	0.93
15-Jun-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.59
16-Jun-06	0.2	0.2	A	0.2	0.2	0.4	0.4	0.4	0.5	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.28	0.48
17-Jun-06	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.30
18-Jun-06	A	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	0.3	0.2	0.2	0.3	0.7	0.3	3.5	0.5	A	0.39	3.51
19-Jun-06	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.5	0.2	0.2	0.2	A	0.2	0.23	0.48
20-Jun-06	0.2	0.2	0.2	0.1	0.1	0.3	0.6	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.24	0.59
21-Jun-06	0.1	0.1	0.2	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.25	0.44
22-Jun-06	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.5	0.7	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.29	0.69
23-Jun-06	0.6	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	A	0.3	0.2	0.3	0.5	0.5	0.30	0.57
24-Jun-06	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	A	0.2	0.2	0.3	0.7	0.3	0.2	0.23	0.74
25-Jun-06	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.3	0.6	1.6	0.6	0.7	0.30	1.56
26-Jun-06	0.3	0.4	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.25	0.39
27-Jun-06	0.1	0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.1	0.24	0.39
28-Jun-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	2.0	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.3	0.3	0.3	0.33	2.00
29-Jun-06	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.3	A	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.24	0.34
30-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.26	0.40
Hourly Avg	0.20	0.20	0.20	0.20	0.21	0.25	0.34	0.30	0.30	0.25	0.25	0.20	0.22	0.26	0.21	0.21	0.21	0.22	0.24	0.27	0.32	0.45	0.25	0.23		
Hourly Max	0.57	0.39	0.29	0.39	0.44	0.44	0.74	0.65	2.00	0.69	0.59	0.29	0.84	0.93	0.36	0.35	0.31	0.34	0.48	0.67	0.69	3.51	0.63	0.68		

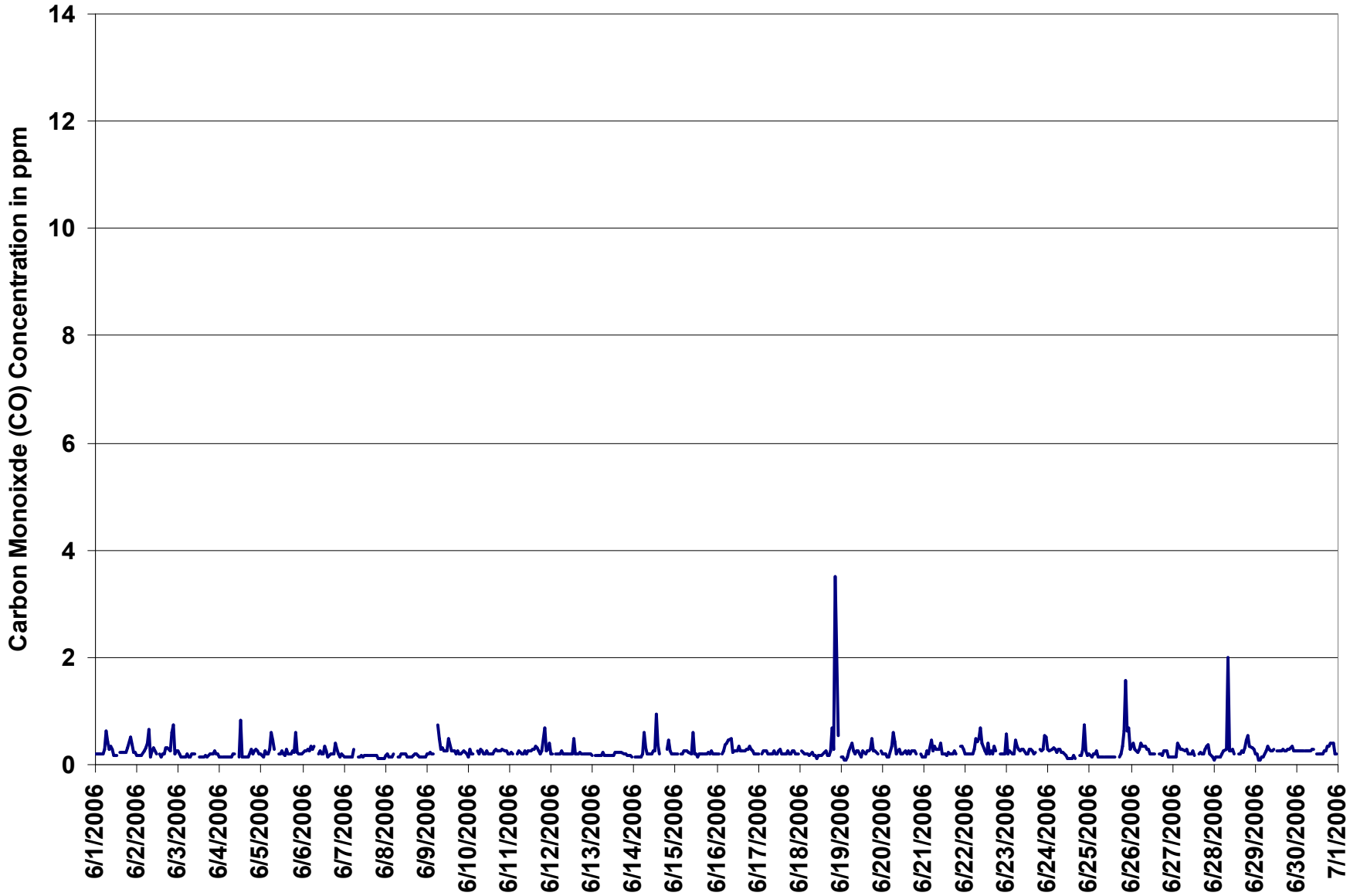
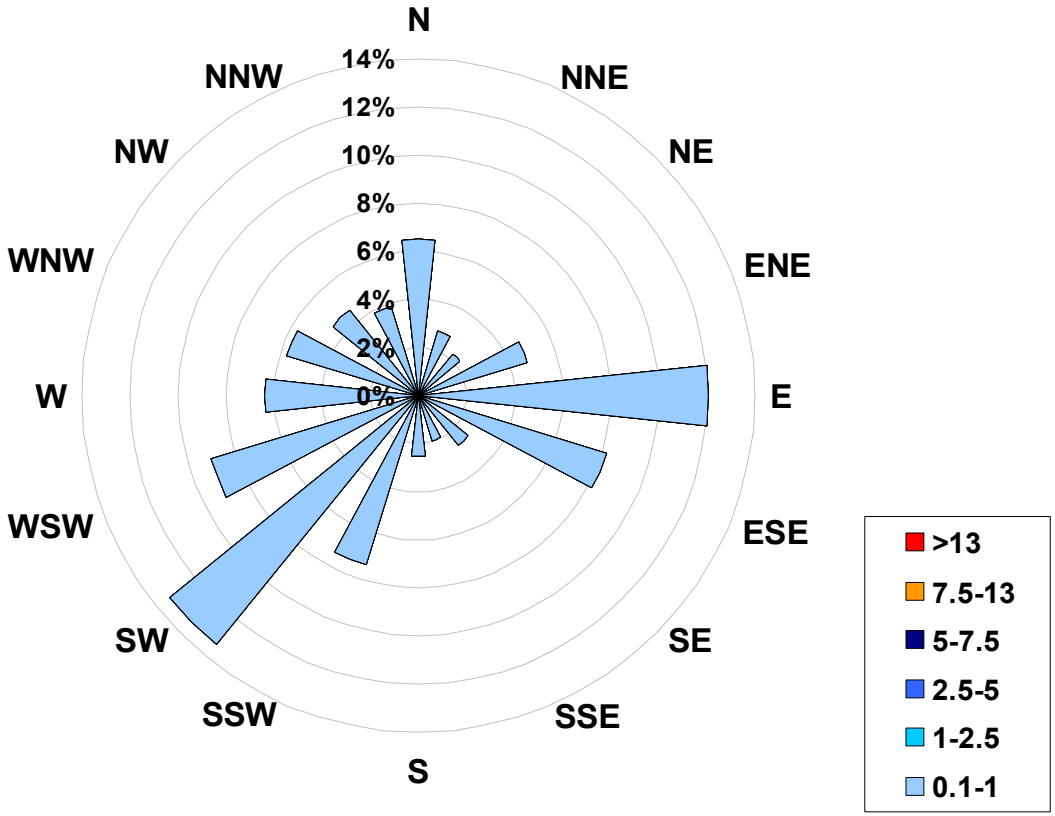


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for June 2006



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	686
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			686

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

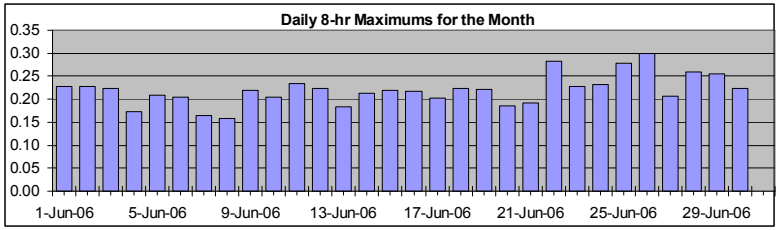
Carbon Monoxide (CO)

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

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.3	ppm	26-Jun	3:00 4:00



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

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
2-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
3-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.22
4-Jun-06	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.17
5-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
6-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
7-Jun-06	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
8-Jun-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.16
9-Jun-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
10-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
11-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
12-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
13-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
14-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	0.21
15-Jun-06	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
16-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
17-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
18-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.22
19-Jun-06	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
20-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
21-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
22-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
23-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
24-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.23
25-Jun-06	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.28
26-Jun-06	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
27-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
28-Jun-06	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.26
29-Jun-06	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
30-Jun-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
Hourly Max	0.27	0.28	0.29	0.30	0.29	0.27	0.23	0.22	0.23	0.28	0.28	0.28	0.28	0.27	0.26	0.24	0.21	0.21	0.21	0.22	0.24	0.24	0.25	0.28	

PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

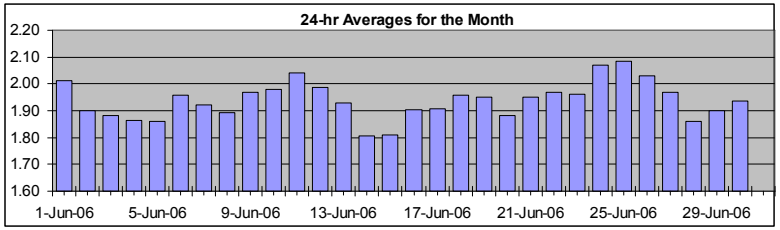
Station: Crescent Heights
Station Owner: PAS

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

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

Summary

Maximum 1-hr Average:	2.8	ppm	25-Jun	22:00 23:00
Maximum 24-hr Value:	2.1	ppm	25-Jun	



AIC Time:	32 hrs	Operational Time:	686 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.2	2.0	1.9	1.9	1.8	1.8	1.9 ppm	1.9 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.1	2.01	2.16
2-Jun-06	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.9	1.8	1.8	1.90	2.05
3-Jun-06	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.88	1.97
4-Jun-06	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.86	2.00
5-Jun-06	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	A	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.86	1.92
6-Jun-06	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.96	2.05
7-Jun-06	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	2.02
8-Jun-06	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.89	1.94
9-Jun-06	1.9	2.0	2.0	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	1.97	2.04
10-Jun-06	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	1.98	2.07
11-Jun-06	2.0	2.0	2.1	A	2.3	2.0	2.0	2.3	2.2	2.1	2.0	1.9	1.9	2.0	1.9	1.9	2.0	2.0	1.9	1.9	2.0	2.1	2.2	2.1	2.04	2.34
12-Jun-06	2.0	2.0	A	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	1.99	2.09
13-Jun-06	2.1	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	2.0	2.0	2.0	2.0	2.0	1.93	2.05
14-Jun-06	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	C	C	A	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.81	1.98
15-Jun-06	1.8	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.81	1.84
16-Jun-06	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.90	2.03
17-Jun-06	1.9	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	2.03
18-Jun-06	A	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	2.1	2.2	A	1.96	2.18
19-Jun-06	2.1	2.0	2.0	2.0	2.0	2.0	2.4	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	A	1.9	1.95	2.44
20-Jun-06	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.88	1.95
21-Jun-06	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	1.95	2.10
22-Jun-06	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.97	2.14
23-Jun-06	1.9	1.9	2.1	2.0	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	A	1.9	1.9	2.0	2.2	2.1	1.96	2.17
24-Jun-06	2.1	2.1	2.5	2.4	2.3	2.3	2.3	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.2	2.0	2.0	2.07	2.46
25-Jun-06	2.0	2.2	2.3	2.3	2.4	2.4	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.1	2.8	2.4	2.09	2.77
26-Jun-06	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.3	1.9	1.9	1.9	2.03	2.26
27-Jun-06	1.9	1.9	2.2	2.3	2.6	2.1	2.1	2.0	2.0	1.8	1.8	1.8	1.8	1.8	A	1.8	1.8	1.8	1.8	1.9	2.0	2.0	1.9	1.9	1.97	2.59
28-Jun-06	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	A	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.86	1.94
29-Jun-06	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.0	1.9	1.9	1.9	A	1.9	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.90	2.08
30-Jun-06	2.0	2.1	2.3	2.4	2.4	2.1	1.9	2.0	2.0	1.9	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.94	2.40
Hourly Avg	1.96	1.97	2.03	2.01	2.05	2.01	2.01	2.00	1.96	1.93	1.90	1.89	1.88	1.88	1.88	1.88	1.87	1.86	1.87	1.89	1.93	1.95	1.97	1.96		
Hourly Max	2.26	2.21	2.46	2.38	2.59	2.44	2.44	2.34	2.18	2.13	1.99	1.98	1.96	1.98	2.02	1.99	2.02	1.98	1.96	1.98	2.25	2.23	2.77	2.42		

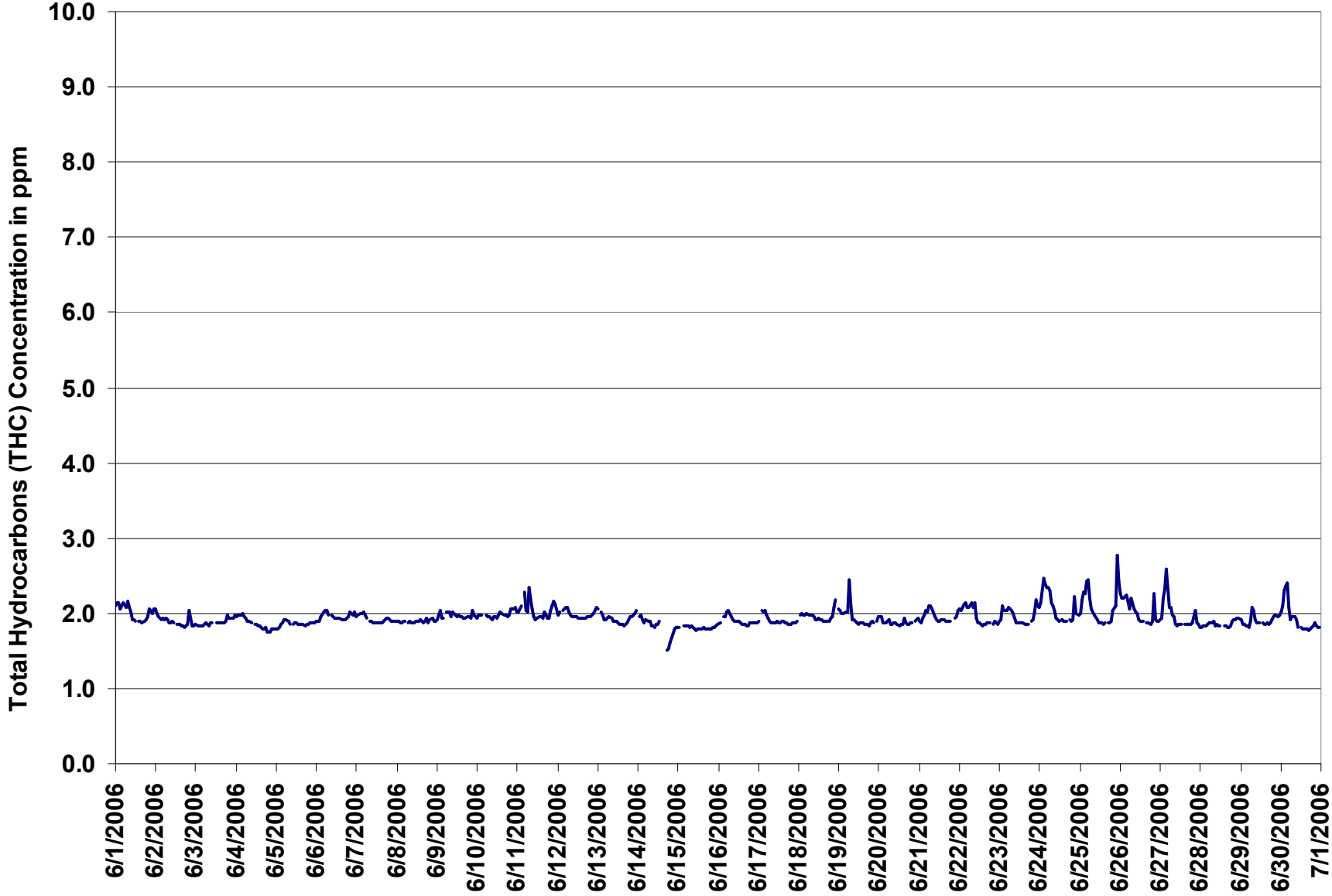


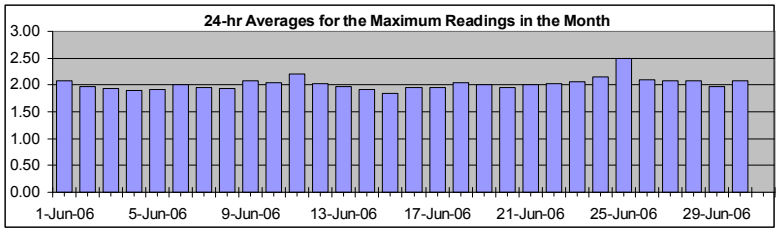
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

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



Summary

Maximum 1-hr Value:	8.8	ppm	25-Jun	22:00 23:00
Maximum 24-hr Value:	2.5	ppm	25-Jun	

AIC Time:	32 hrs	Operational Time:	686 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.9	2.4	2.1	2.0	1.9	1.8	1.8	2.0 ppm	2.0 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.07	2.24
2-Jun-06	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.2	1.9	1.9	1.97	2.23
3-Jun-06	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.1	2.0	2.0	2.0	1.93	2.18
4-Jun-06	2.0	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.90	2.10
5-Jun-06	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	2.04
6-Jun-06	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.1	2.0	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.01	2.12
7-Jun-06	2.0	2.1	2.0	2.0	2.1	2.0	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.96	2.08
8-Jun-06	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.9	1.93	1.97
9-Jun-06	1.9	2.1	2.1	2.0	2.0	A	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.2	2.0	2.0	2.08	3.19
10-Jun-06	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.1	2.1	2.2	2.04	2.27
11-Jun-06	2.0	2.0	2.3	A	2.4	2.1	2.2	2.9	2.4	2.4	2.0	2.0	2.0	2.1	2.0	2.0	2.6	2.2	2.0	2.0	2.1	2.2	2.3	2.3	2.20	2.88
12-Jun-06	2.0	2.1	A	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.02	2.13
13-Jun-06	2.1	A	2.1	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	2.0	2.0	2.0	2.0	2.0	2.1	1.97	2.09
14-Jun-06	A	2.2	2.2	2.1	1.9	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.1	C	C	A	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.91	2.21
15-Jun-06	1.8	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.84	1.89
16-Jun-06	1.9	1.9	A	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.12
17-Jun-06	1.9	A	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.95	2.10
18-Jun-06	A	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	2.0	2.3	2.0	2.7	2.3	A	2.05	2.75
19-Jun-06	2.1	2.1	2.0	2.0	2.0	2.1	2.6	2.4	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	A	1.9	2.01	2.65
20-Jun-06	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	1.9	1.9	1.9	1.9	1.9	A	1.9	2.1	1.95	2.33
21-Jun-06	2.0	1.9	2.0	2.0	2.2	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.1	2.00	2.22
22-Jun-06	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	1.9	1.9	1.9	1.9	2.02	2.24
23-Jun-06	2.0	2.0	2.4	2.1	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.1	3.1	2.3	2.07	3.12
24-Jun-06	2.2	2.4	2.5	2.5	2.5	2.4	2.4	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.5	2.1	2.0	2.15	2.53
25-Jun-06	2.1	2.4	2.4	2.3	2.5	2.5	2.3	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.4	2.3	8.8	3.9	2.50	8.82
26-Jun-06	2.4	2.3	2.3	2.3	2.3	2.2	2.1	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.6	2.0	1.9	1.9	2.10	2.58
27-Jun-06	2.0	2.0	2.5	2.9	3.0	2.2	2.3	2.1	2.1	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.08	2.98
28-Jun-06	1.8	1.8	1.9	1.8	1.9	1.9	1.9	2.0	5.2	2.0	1.9	2.4	1.9	A	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.07	5.19
29-Jun-06	2.0	1.9	1.9	1.9	1.9	1.8	2.0	2.2	2.1	2.0	1.9	1.9	A	2.1	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	1.96	2.16
30-Jun-06	2.1	2.5	2.6	2.7	3.5	2.3	2.0	2.0	2.0	2.0	1.9	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	1.9	1.9	1.9	2.08	3.51
Hourly Avg	2.02	2.06	2.11	2.09	2.15	2.08	2.09	2.09	2.12	1.99	1.95	1.94	1.92	1.94	1.91	1.92	1.93	1.90	1.91	1.96	2.02	2.09	2.26	2.08		
Hourly Max	2.42	2.46	2.63	2.86	3.51	2.53	2.65	2.88	5.19	2.42	2.08	2.44	2.03	2.11	2.05	2.33	2.55	2.20	2.02	2.34	2.58	3.19	8.82	3.94		

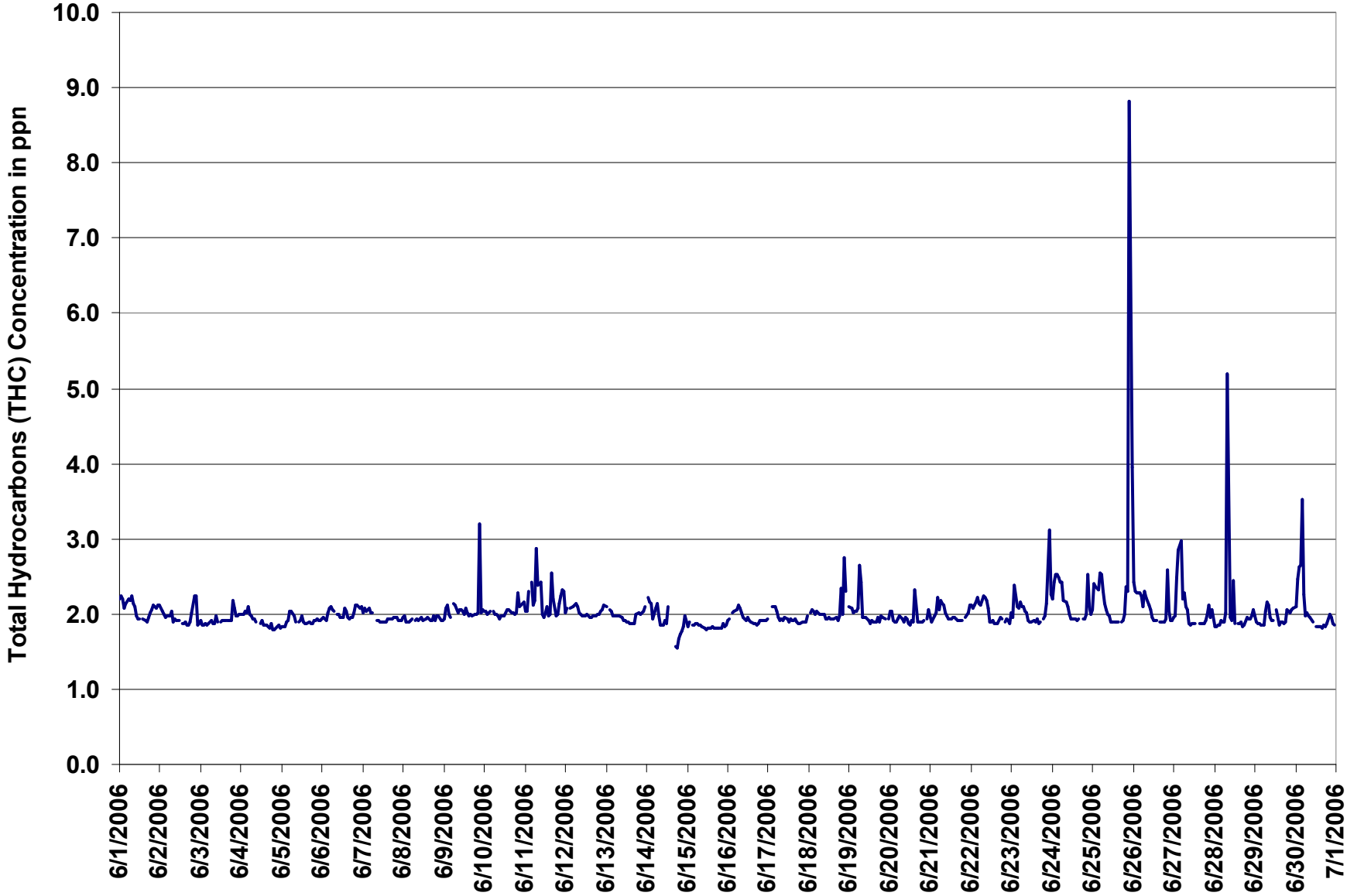
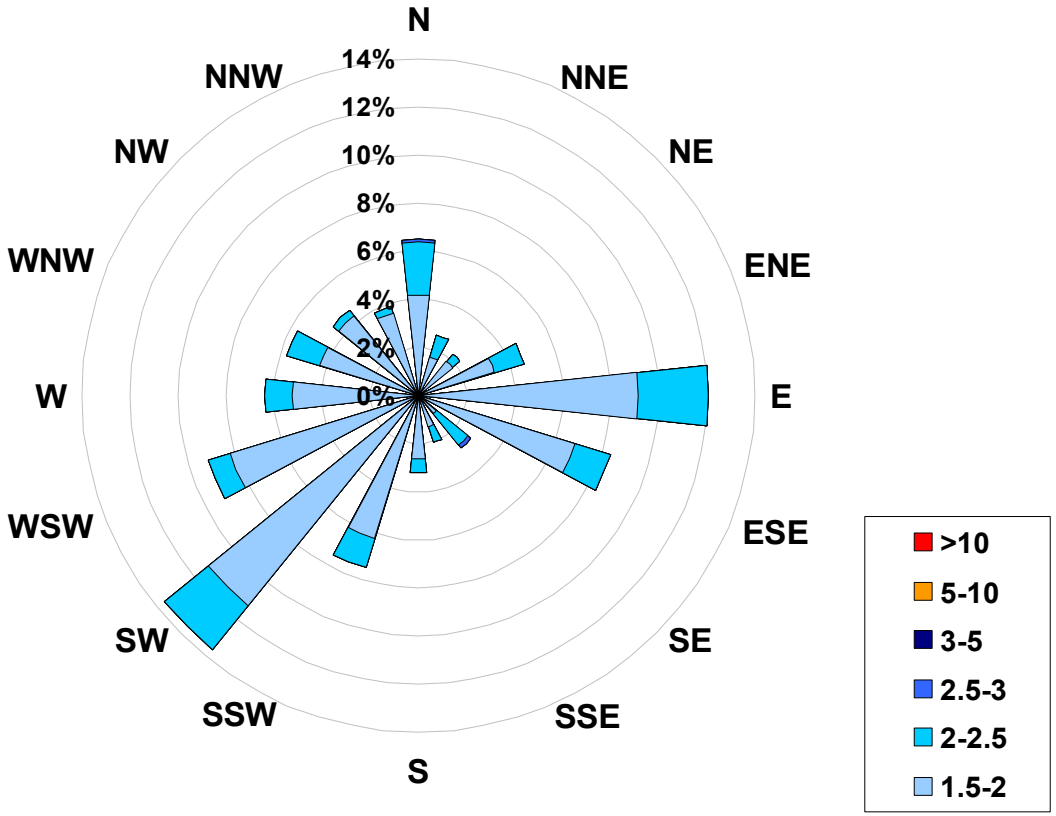


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for June 2006



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	541
2	to	2.5	143
2.5	to	3	2
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			686

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

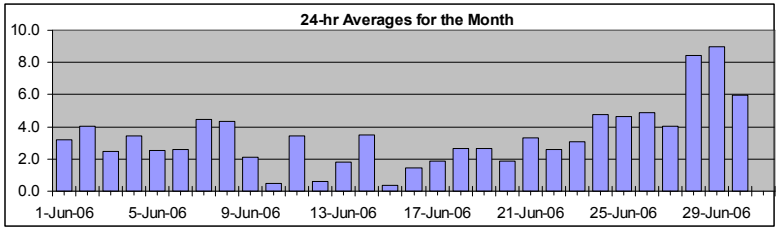
Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

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

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



Summary

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	28.5	µg/m³	29-Jun	7:00 8:00
Maximum 24-hr Value:	9.0	µg/m³	29-Jun	

AIC Time:	0 hrs	Operational Time:	711 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	98.8%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	15.2	9.0	4.4	2.6	1.1	0.0	0.0	3.3 / 3 µg/m³	2.7 µg/m³

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	2	2	2	2	4	4	5	5	5	4	0	0	0	0	3	2	0	2	3	6	8	8	3	4	3.2	7.8
2-Jun-06	2	2	0	1	3	3	6	5	4	6	5	5	3	1	3	3	3	4	7	2	7	11	6	5	4.0	10.8
3-Jun-06	3	2	1	0	0	0	1	0	1	3	1	2	1	0	1	1	1	1	1	13	10	6	4	5	2.5	12.8
4-Jun-06	4	6	2	3	3	3	4	3	4	1	1	2	1	1	4	4	1	12	3	12	2	3	1	D	3.4	12.0
5-Jun-06	0	0	0	2	4	3	3	2	5	3	0	0	0	1	6	4	2	2	4	3	4	3	4	4	2.5	5.7
6-Jun-06	5	7	4	3	4	6	3	1	2	3	2	0	1	1	1	2	2	2	2	3	3	2	1	2	2.6	7.0
7-Jun-06	2	2	3	2	3	4	4	5	5	3	5	4	5	3	4	7	5	3	6	6	6	5	7	7	4.4	7.4
8-Jun-06	9	8	7	4	6	6	4	4	3	4	3	2	1	0	2	5	6	7	6	4	4	3	3	3	4.3	8.7
9-Jun-06	4	5	5	5	5	3	4	3	1	2	1	1	1	0	0	1	0	2	1	2	3	0	0	0	2.1	5.5
10-Jun-06	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	2	0	0	1	1	1	1	1	1	0.5	2.0
11-Jun-06	1	2	2	2	3	3	4	4	4	4	4	3	4	8	6	3	2	2	4	4	4	3	4	3	3.4	7.8
12-Jun-06	0	0	1	1	0	0	0	1	0	1	0	1	0	0	2	1	1	1	0	1	1	0	0	0	0.6	1.9
13-Jun-06	0	1	1	0	D	4	3	2	1	1	2	2	3	4	4	4	2	2	2	0	1	1	0	1	1.8	4.3
14-Jun-06	1	0	1	3	3	4	4	3	4	6	11	7	8	7	8	0	7	2	1	0	0	2	2	0	3.5	10.8
15-Jun-06	1	D	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3	0	0	0.4	2.7
16-Jun-06	0	0	0	1	0	1	0	2	1	1	1	2	3	4	3	1	0	3	1	3	D	1	2	1	1.4	4.4
17-Jun-06	4	5	2	2	1	2	2	1	2	0	0	3	5	1	0	2	1	1	2	2	0	1	1	1	1.8	5.1
18-Jun-06	2	2	2	1	0	4	3	3	1	0	0	2	1	2	3	2	2	2	3	3	4	9	9	3	2.7	9.0
19-Jun-06	3	2	2	2	2	5	7	3	3	1	3	0	D	1	1	12	5	2	2	2	0	0	0	2	2.6	11.7
20-Jun-06	0	0	0	0	0	0	4	2	2	3	3	1	4	4	2	4	0	3	5	1	2	1	2	2	1.9	4.9
21-Jun-06	2	2	3	2	3	5	5	4	3	1	3	2	3	3	4	4	4	4	4	5	7	2	3	3	3.3	6.6
22-Jun-06	3	3	3	4	3	3	5	8	4	9	0	0	0	1	1	2	2	4	3	2	2	1	1	0	2.6	9.0
23-Jun-06	2	0	1	1	2	4	4	5	4	2	0	2	1	0	3	D	1	2	5	5	4	6	10	7	3.1	10.3
24-Jun-06	6	5	7	6	7	6	7	8	7	7	0	1	2	2	2	3	4	4	4	2	0	11	8	4	4.8	10.7
25-Jun-06	4	4	4	4	4	4	5	3	4	5	1	0	3	4	3	4	2	2	5	5	7	5	16	12	4.6	16.1
26-Jun-06	5	4	3	4	3	6	8	12	8	8	5	3	5	3	4	6	3	4	4	5	4	5	5	2	4.9	12.4
27-Jun-06	3	3	3	2	1	3	5	6	4	5	2	1	1	2	3	0	1	3	2	15	23	3	D	0	4.0	22.8
28-Jun-06	1	2	2	3	7	10	10	12	5	7	12	3	7	4	8	7	7	9	15	24	24	9	11	2	8.4	24.4
29-Jun-06	0	D	0	1	3	6	28	28	22	11	7	7	8	8	10	9	10	6	7	7	8	5	7	8	9.0	28.5
30-Jun-06	8	11	8	7	9	9	10	4	7	14	2	6	1	7	1	0	0	4	11	2	8	9	4	2	6.0	14.1
Hourly Avg	2.6	2.9	2.4	2.2	2.9	3.7	5.0	4.7	3.9	3.9	2.5	2.1	2.5	2.5	3.1	3.3	2.5	3.2	3.9	4.7	5.1	4.0	4.0	2.9		
Hourly Max	8.7	10.6	8.4	7.1	8.8	10.2	27.9	28.5	21.5	14.1	11.9	7.1	8.4	7.8	9.8	11.7	9.6	12.0	14.9	24.4	23.5	10.8	16.1	11.5		

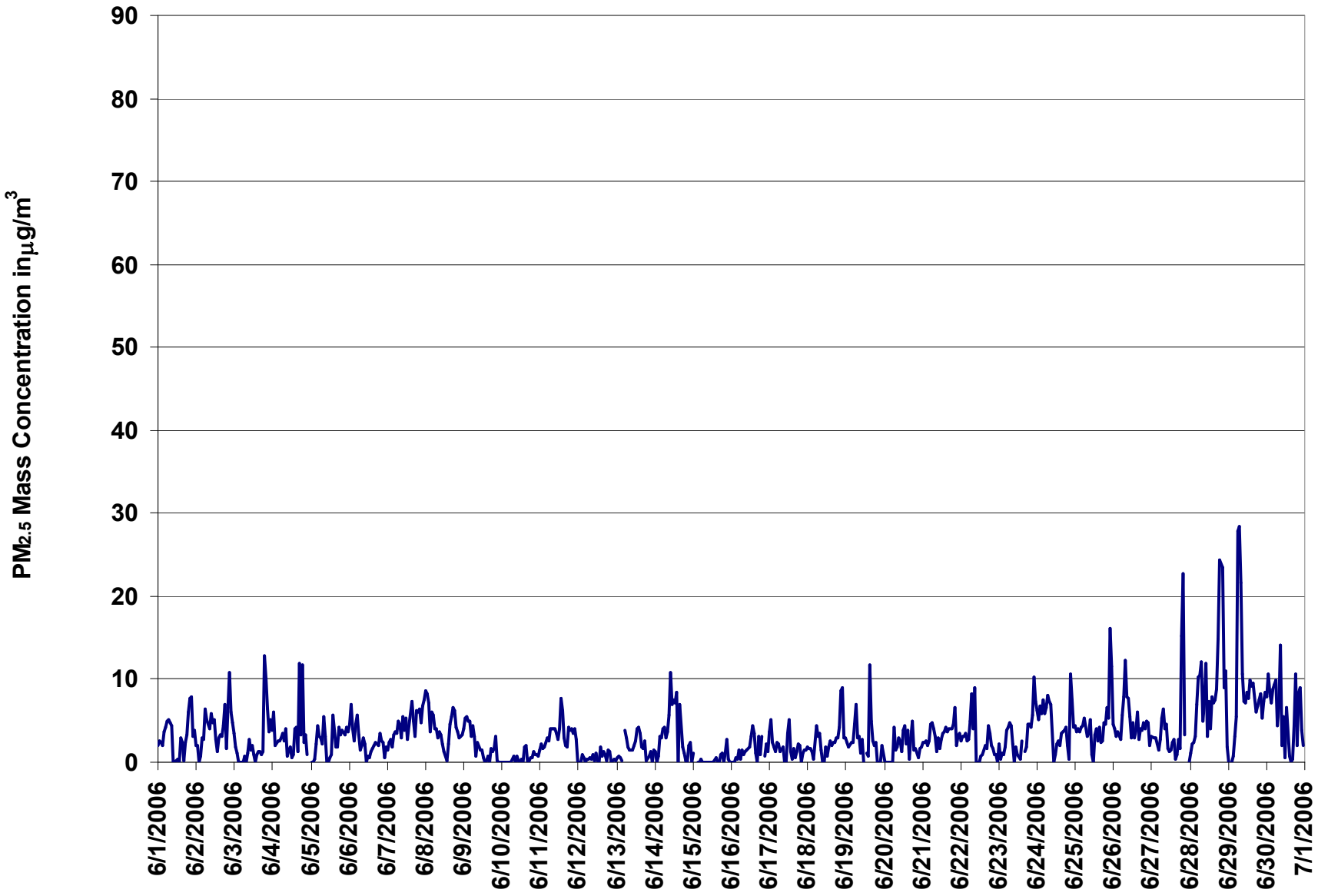


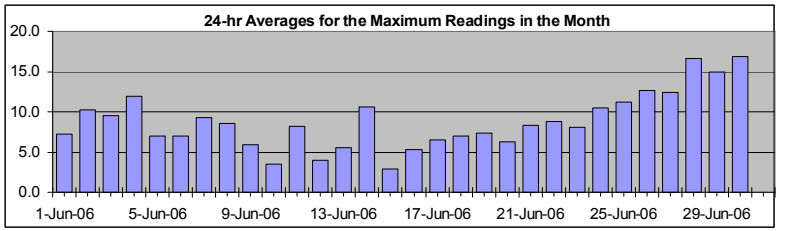
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

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



Summary

Maximum 1-hr Average:	70.2	µg/m³	30-Jun	21:00 22:00
Maximum 24-hr Value:	16.9	µg/m³	30-Jun	

AIC Time:	0 hrs	Operational Time:		711 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:		98.8%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	33.2	19.1	10.4	7.5	4.9	2.6	1.2	8.8 / 7 µg/m³	8.1 µg/m³

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	5	5	5	5	6	7	9	10	10	8	5	5	4	5	9	8	4	5	7	10	14	15	7	9	7.2	14.9
2-Jun-06	8	5	3	5	9	7	12	12	8	10	10	9	6	6	7	10	6	9	10	14	13	28	23	13	10.3	28.2
3-Jun-06	11	7	7	4	3	5	5	3	5	9	6	5	7	4	5	6	6	5	6	63	29	11	8	9	9.6	62.7
4-Jun-06	6	17	4	6	6	6	7	6	9	5	7	10	5	4	26	24	16	28	30	31	6	10	7	D	12.0	31.3
5-Jun-06	2	3	3	5	8	8	8	8	11	8	6	3	6	8	10	8	9	8	8	8	8	8	8	8	7.0	10.5
6-Jun-06	11	11	9	7	8	8	7	5	6	8	10	4	4	5	7	8	6	6	3	8	7	6	5	7	6.9	11.4
7-Jun-06	6	10	9	9	7	7	7	8	8	9	8	9	9	7	11	11	10	7	10	10	14	9	13	16	9.3	15.5
8-Jun-06	17	13	12	10	10	10	8	7	7	8	8	6	5	4	7	10	10	10	10	8	7	6	6	7	8.5	16.6
9-Jun-06	8	9	9	9	10	6	8	7	8	6	5	5	5	4	5	5	5	5	5	5	7	4	4	1	5.9	9.6
10-Jun-06	2	1	2	2	3	2	3	4	2	5	4	3	2	3	6	6	4	4	5	3	5	4	5	4	3.4	6.1
11-Jun-06	4	5	4	5	6	6	7	7	8	8	10	9	16	16	13	7	10	10	10	9	7	6	6	8	8.1	16.3
12-Jun-06	1	2	3	4	3	3	2	4	5	5	5	5	5	6	6	5	6	5	3	4	4	3	3	2	3.9	6.2
13-Jun-06	2	4	3	4	D	12	6	5	5	6	4	6	6	9	10	7	6	7	6	4	4	5	1	5	5.5	11.9
14-Jun-06	9	3	4	14	11	13	13	10	10	14	26	18	12	18	18	15	13	10	6	4	1	5	6	2	10.6	25.7
15-Jun-06	4	D	D	1	1	2	0	0	4	3	3	2	1	3	4	3	4	5	4	4	4	7	3	2	2.9	6.8
16-Jun-06	1	2	3	4	4	3	5	3	5	4	4	7	10	12	9	8	4	9	5	7	D	5	5	5	5.4	11.9
17-Jun-06	7	9	5	4	3	5	5	5	8	6	6	11	16	17	6	6	6	8	5	5	3	3	3	5	6.5	17.5
18-Jun-06	4	3	4	4	2	15	6	7	6	7	5	7	6	6	7	7	5	7	6	7	7	17	17	7	7.0	17.1
19-Jun-06	5	4	4	4	4	8	11	9	8	7	9	9	D	10	9	18	11	8	9	6	4	2	3	8	7.4	17.9
20-Jun-06	5	3	3	2	3	4	6	4	6	5	6	5	7	10	6	17	8	8	14	6	4	3	10	5	6.2	17.1
21-Jun-06	5	5	5	3	6	12	9	8	9	5	7	5	11	12	8	10	9	10	11	17	13	5	7	7	8.3	17.4
22-Jun-06	6	6	5	5	5	7	8	15	14	20	12	3	4	8	8	7	9	24	22	7	4	4	5	4	8.8	23.6
23-Jun-06	4	3	3	2	6	7	8	10	8	14	7	9	11	8	9	D	10	9	8	11	6	9	14	11	8.1	13.7
24-Jun-06	8	8	10	10	12	10	9	11	14	15	6	10	7	12	9	11	9	9	8	8	8	24	15	8	10.5	23.8
25-Jun-06	8	12	10	7	7	9	11	10	7	15	12	8	11	10	7	9	8	7	11	9	12	14	26	30	11.3	29.6
26-Jun-06	9	9	6	8	5	11	13	19	17	25	25	10	12	14	15	19	13	14	11	10	10	10	10	6	12.6	24.9
27-Jun-06	6	6	6	4	5	8	11	13	15	12	14	12	18	9	16	9	11	12	10	39	33	14	D	2	12.4	38.7
28-Jun-06	3	4	5	6	12	17	15	18	15	16	24	19	22	17	18	14	18	16	23	33	38	20	16	8	16.6	37.7
29-Jun-06	7	D	5	5	9	10	35	33	32	16	15	12	13	13	16	15	16	13	14	16	14	9	11	16	15.0	34.8
30-Jun-06	13	19	14	12	16	17	15	9	12	28	15	19	22	19	11	10	7	12	22	11	12	70	12	6	16.9	70.2
Hourly Avg	6.3	6.8	5.7	5.8	6.6	8.2	8.9	9.1	9.4	10.2	9.4	8.2	9.0	9.3	10.0	10.1	8.6	9.6	10.0	12.5	10.2	11.1	8.8	7.6		
Hourly Max	16.6	19.1	13.8	14.0	16.3	16.6	34.8	33.4	31.7	28.5	25.7	19.4	21.9	18.7	25.7	23.8	18.4	28.4	30.3	62.7	37.7	70.2	25.6	29.6		

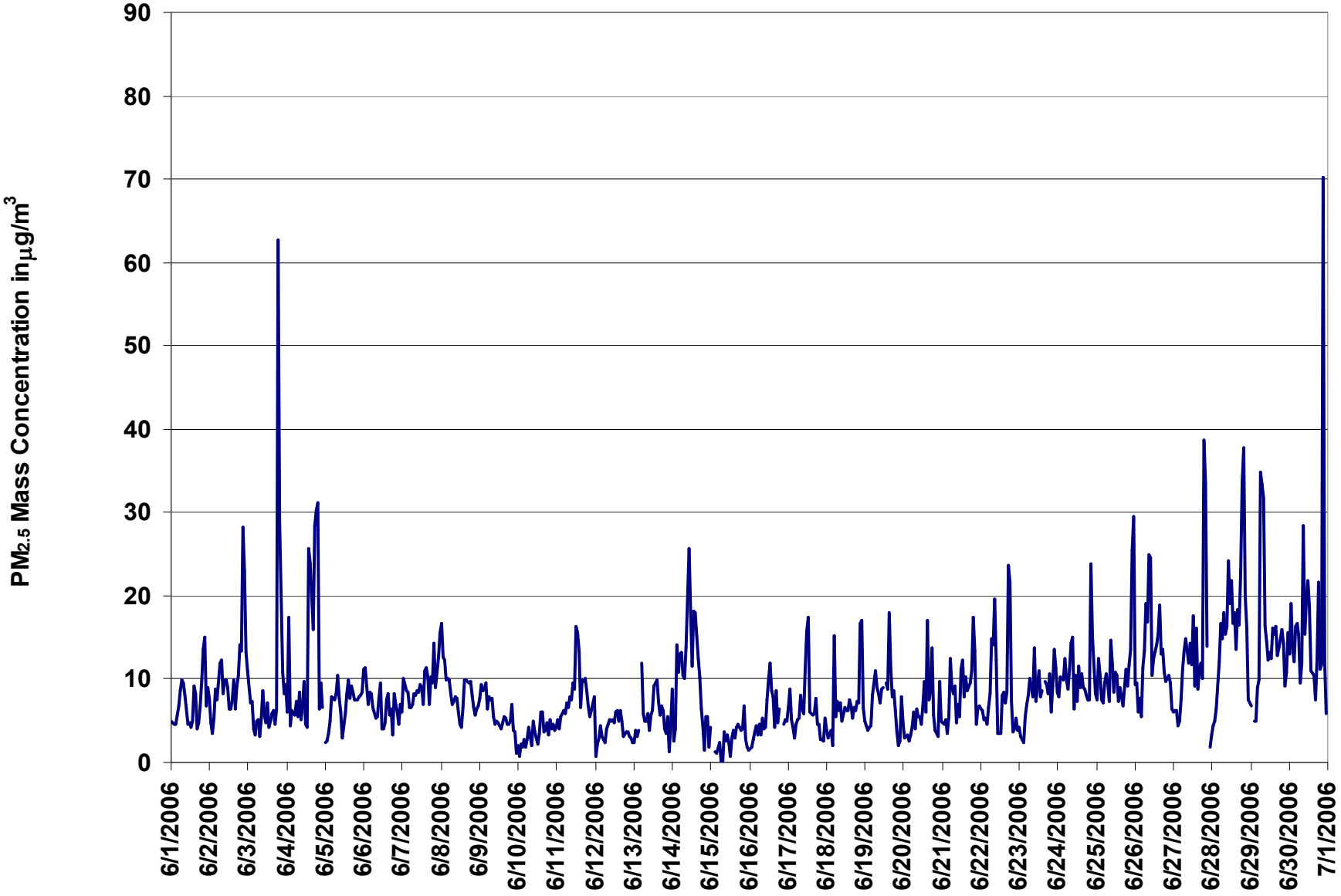
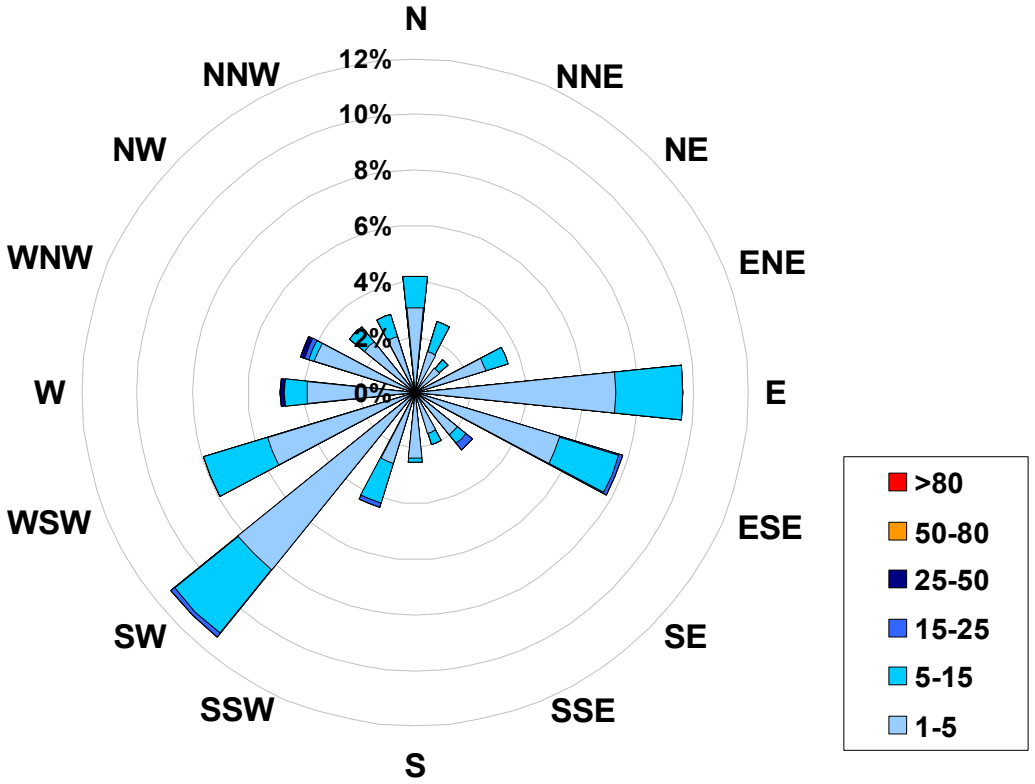


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	570
5	to	15	133
15	to	25	6
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			711

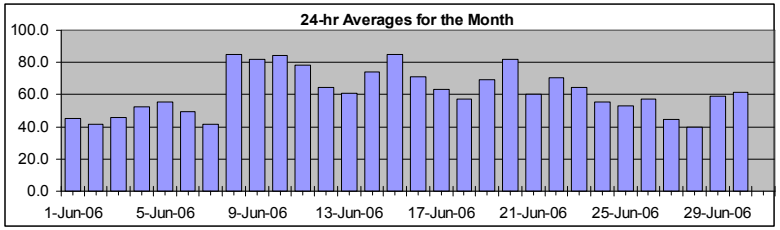
PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

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

HOURLY AVERAGE TABLE

Relative Humidity (RH)



Summary

Maximum 1-hr Average:	94.1	%	20-Jun	3:00 4:00
Maximum 24-hr Value:	85.2	%	15-Jun	

AIC Time:	0 hrs	Operational Time:	720 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	92.9	90.4	80.7	63.2	44.2	29.2	21.7	61.8 %	63.2 %

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	74	77	79	77	78	70	60	51	42	36	26	22	21	19	21	22	20	19	22	30	41	57	63	61	45.3	78.9
2-Jun-06	55	54	50	46	47	47	51	47	39	39	37	35	31	24	23	23	23	25	34	35	42	54	64	73	41.5	73.5
3-Jun-06	77	76	73	72	70	63	61	49	41	41	38	35	34	30	27	27	28	27	28	32	36	42	44	52	45.9	76.9
4-Jun-06	58	62	59	62	61	55	52	48	44	39	34	34	32	30	29	29	31	33	38	80	87	85	86	82	52.2	87.5
5-Jun-06	82	80	80	83	89	89	88	83	67	55	47	37	32	30	33	34	31	29	32	37	42	45	50	54	55.4	89.3
6-Jun-06	54	70	76	78	77	75	66	54	49	46	40	32	32	30	29	31	32	33	34	40	48	51	54	58	49.6	77.9
7-Jun-06	53	51	55	52	52	55	56	51	43	37	34	32	30	32	30	29	30	32	34	36	38	38	43	52	41.5	56.2
8-Jun-06	63	67	78	78	80	81	83	87	89	91	89	87	85	84	83	89	90	91	91	89	89	90	91	90	84.8	91.2
9-Jun-06	90	90	91	91	91	91	90	87	83	82	80	77	75	70	68	68	68	72	73	78	88	88	86	83	81.8	91.1
10-Jun-06	85	84	86	87	87	87	88	91	93	93	93	92	91	88	87	85	78	73	74	75	78	77	79	83	84.6	93.0
11-Jun-06	88	90	90	90	91	89	86	83	81	74	65	63	54	72	77	81	73	64	61	73	80	85	89	88	78.6	90.7
12-Jun-06	84	83	87	86	81	84	81	72	65	61	56	55	53	49	49	49	48	49	50	53	58	59	66	69	64.5	87.5
13-Jun-06	71	75	77	74	74	70	68	68	64	55	52	51	51	50	52	52	50	50	54	56	58	62	61	63	60.7	77.1
14-Jun-06	67	64	64	67	68	73	73	70	62	59	52	52	57	58	81	89	92	88	87	90	93	93	93	93	74.3	93.4
15-Jun-06	94	92	91	91	93	93	91	89	86	77	76	75	71	72	75	82	81	89	87	86	88	91	89	88	85.2	93.5
16-Jun-06	88	88	87	85	84	86	85	81	75	63	56	51	48	53	57	63	62	76	75	75	63	62	70	71	71.0	87.8
17-Jun-06	73	78	80	83	84	81	78	67	55	48	42	47	72	54	45	58	56	52	55	59	61	62	65	71	63.5	84.4
18-Jun-06	79	82	83	81	83	80	75	71	61	48	38	38	38	36	37	36	36	37	39	43	49	56	72	80	57.4	83.5
19-Jun-06	82	85	85	85	83	73	68	61	51	44	44	39	31	36	35	63	84	84	84	87	89	90	92	93	69.5	92.7
20-Jun-06	93	94	94	94	91	85	87	82	81	85	86	82	84	82	74	80	83	77	75	78	75	71	68	71	82.2	94.1
21-Jun-06	70	73	82	85	86	78	75	72	65	53	49	45	43	41	42	42	41	41	42	51	64	67	72	76	60.5	85.7
22-Jun-06	80	82	83	86	86	84	79	74	77	81	67	50	50	46	44	40	44	51	79	77	82	86	85	81	70.6	86.1
23-Jun-06	82	84	88	89	91	89	82	76	68	63	56	50	50	47	48	43	38	38	44	50	59	65	69	74	64.3	91.2
24-Jun-06	77	85	89	89	88	81	74	66	57	52	43	37	33	31	30	30	30	31	32	38	39	50	67	74	55.1	88.7
25-Jun-06	78	78	79	81	81	77	69	60	53	44	38	31	29	29	31	32	31	30	33	38	47	54	66	76	52.7	81.3
26-Jun-06	80	82	83	85	84	78	71	64	56	51	48	43	39	38	38	37	37	37	36	41	48	57	68	70	57.1	85.1
27-Jun-06	74	73	73	75	71	63	57	51	42	38	34	30	26	25	23	22	21	22	21	29	57	62	47	38	44.8	75.1
28-Jun-06	36	38	39	38	44	53	55	51	44	37	37	32	26	23	23	22	23	24	30	41	52	56	64	65	39.6	64.7
29-Jun-06	61	52	50	54	57	52	59	74	70	72	69	65	60	57	53	51	51	50	52	56	60	62	65	68	59.1	74.1
30-Jun-06	73	75	78	81	80	79	79	73	64	59	54	51	46	45	43	37	36	38	44	47	50	77	79	83	61.3	82.5
Hourly Avg	73.9	75.5	76.9	77.4	77.7	75.3	72.9	68.5	62.2	57.5	52.7	49.0	47.5	46.0	46.2	48.1	48.3	48.7	51.4	56.7	62.1	66.5	70.3	72.6		
Hourly Max	93.5	93.7	93.9	94.1	92.8	93.2	91.2	91.3	93.0	92.8	92.7	92.2	90.8	87.6	87.0	89.4	91.9	90.7	90.7	90.1	92.8	92.8	92.6	93.4		

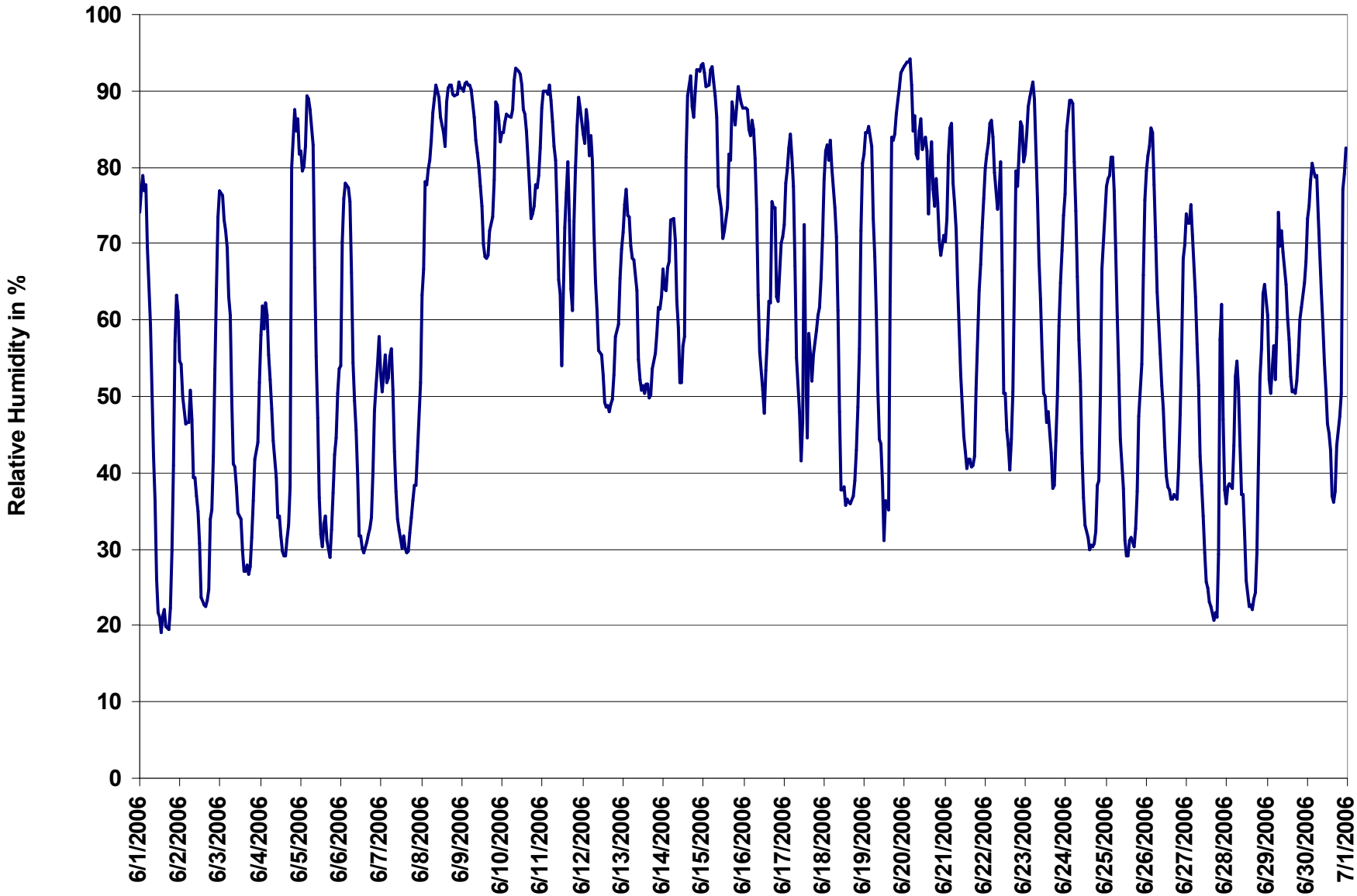


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend

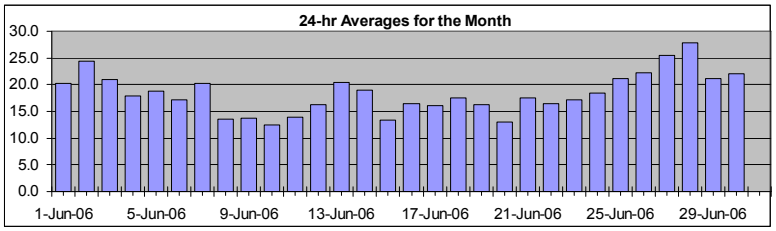
PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

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

HOURLY AVERAGE TABLE

Ambient Temperature (T)



Summary

Maximum 1-hr Average:	34.6	°C	28-Jun	15:00 16:00
Maximum 24-hr Value:	27.8	°C	28-Jun	

AIC Time:	0 hrs	Operational Time:	720 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	33.2	28.6	22.6	17.3	13.4	11.1	10.0	18.4 °C	17.3 °C

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	10	9	9	9	8	11	14	17	21	24	26	27	28	28	28	29	29	29	28	26	23	19	17	16	20.3	29.3
2-Jun-06	17	17	18	19	19	19	20	22	25	26	27	28	29	31	31	32	32	31	29	27	25	22	20	19	24.4	31.7
3-Jun-06	18	18	18	17	16	16	16	19	21	22	23	25	25	26	27	27	27	26	25	23	20	18	16	14	21.0	27.0
4-Jun-06	13	12	12	11	11	13	15	17	20	20	21	22	23	24	25	25	25	24	23	16	14	15	15	14	17.8	25.1
5-Jun-06	13	13	13	12	12	12	13	14	18	20	21	23	24	25	25	24	24	24	24	22	20	19	18	17	18.7	24.8
6-Jun-06	16	13	12	11	11	11	13	15	16	18	19	21	21	22	23	22	22	22	21	20	18	16	15	14	17.2	22.6
7-Jun-06	15	15	14	15	15	15	15	17	20	22	24	24	26	25	27	27	26	24	23	21	20	20	19	17	20.2	26.8
8-Jun-06	16	16	14	14	15	15	14	14	13	13	14	14	14	14	14	13	12	12	12	12	12	12	12	12	13.5	16.0
9-Jun-06	13	13	13	13	13	13	13	13	13	13	14	14	15	16	16	16	16	15	15	14	13	12	13	12	13.8	15.9
10-Jun-06	12	12	12	12	12	12	12	12	12	11	12	12	12	13	13	13	14	14	14	14	13	13	12	12	12.4	14.3
11-Jun-06	11	11	11	11	11	11	12	13	13	15	17	17	18	16	15	14	16	17	18	15	14	13	12	12	13.9	18.1
12-Jun-06	12	11	11	11	11	11	12	14	16	17	18	19	20	20	21	21	21	21	20	19	18	17	16	15	16.3	21.2
13-Jun-06	15	14	14	14	14	15	16	17	19	22	23	24	24	26	26	27	27	26	25	23	22	20	19	18	20.5	26.7
14-Jun-06	18	18	18	17	18	17	17	19	22	23	26	26	25	25	20	18	17	17	17	16	16	16	16	15	19.0	26.0
15-Jun-06	15	14	13	13	12	12	12	12	13	14	14	14	15	14	14	13	13	12	13	14	13	14	14	13	13.4	15.1
16-Jun-06	13	13	12	13	12	12	12	13	15	18	19	21	23	22	22	21	19	17	17	18	17	16	14	14	16.4	22.6
17-Jun-06	14	13	13	12	11	12	13	15	19	20	21	20	15	20	21	16	17	19	18	18	16	15	14	13	16.1	21.2
18-Jun-06	12	11	11	11	10	11	13	15	17	20	21	22	22	23	23	23	24	23	23	21	19	17	15	13	17.5	23.5
19-Jun-06	12	11	10	10	10	13	16	18	22	24	24	25	24	23	22	17	15	15	15	15	14	13	12	12	16.2	24.6
20-Jun-06	12	12	11	11	10	10	11	13	13	13	12	13	13	14	16	14	12	14	16	14	15	15	15	14	13.0	16.0
21-Jun-06	14	13	12	11	10	12	14	15	17	19	21	21	21	23	22	22	23	23	22	20	18	16	15	14	17.5	22.9
22-Jun-06	13	13	13	12	12	12	14	15	15	16	19	21	21	22	23	25	23	21	14	15	14	13	13	13	16.4	24.9
23-Jun-06	13	12	11	11	11	12	14	16	18	20	20	22	22	22	21	22	22	22	22	21	17	15	14	13	17.1	22.3
24-Jun-06	13	11	10	10	10	11	14	17	19	21	22	23	24	25	25	25	25	25	25	23	20	18	15	14	18.5	25.4
25-Jun-06	13	12	12	11	11	13	16	18	21	24	26	27	28	29	28	28	28	28	27	26	24	22	19	18	21.1	28.7
26-Jun-06	16	15	14	14	13	15	17	20	24	26	27	27	28	28	29	29	29	29	28	26	24	21	18	17	22.3	29.1
27-Jun-06	15	16	16	15	15	18	21	23	27	28	30	31	32	32	33	33	33	33	33	31	26	23	23	24	25.4	33.3
28-Jun-06	24	23	23	23	22	20	21	24	27	29	30	33	34	34	34	35	34	34	33	30	28	26	23	21	27.8	34.6
29-Jun-06	20	19	19	17	16	18	21	20	22	21	20	21	22	23	25	25	25	25	24	23	22	20	19	19	21.1	25.3
30-Jun-06	17	17	17	16	16	17	18	19	21	24	25	26	27	27	28	29	29	29	28	26	25	18	17	16	22.1	28.9
Hourly Avg	14.5	14.0	13.5	13.2	13.0	13.6	15.0	16.6	18.6	20.1	21.3	22.1	22.5	23.0	23.1	22.8	22.7	22.4	21.8	20.3	18.6	17.1	16.0	15.2		
Hourly Max	24.2	23.3	23.1	23.1	21.8	20.4	21.4	24.5	27.3	28.9	30.4	32.6	33.6	34.2	34.3	34.6	34.5	34.0	33.1	30.8	28.0	25.7	22.9	24.0		

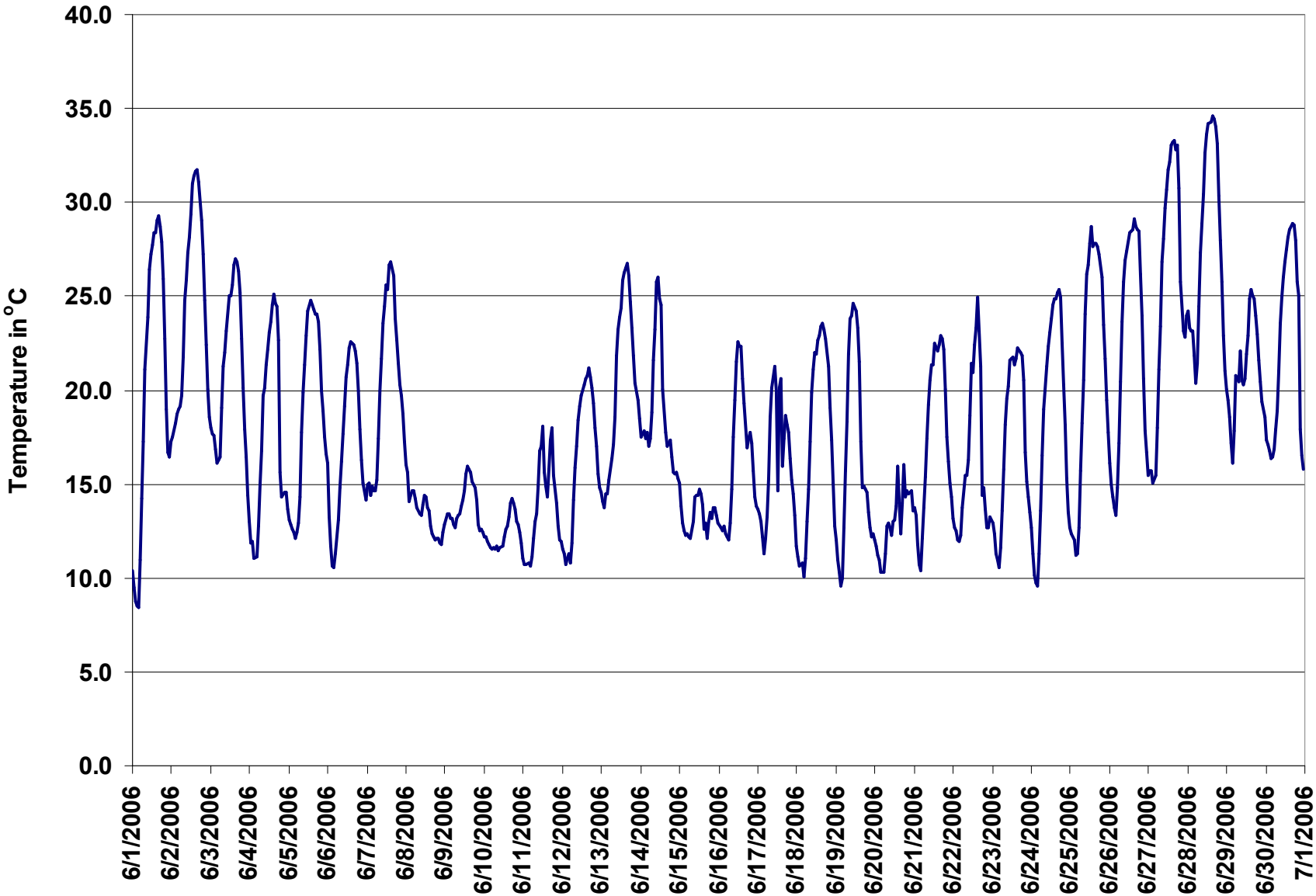


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend

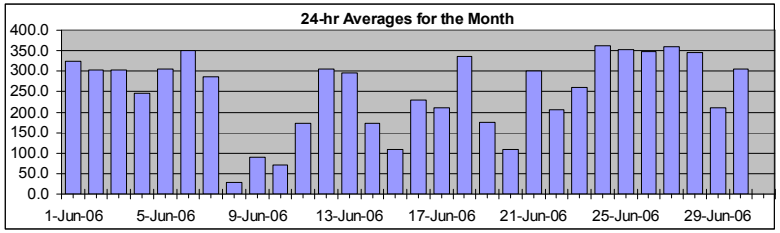
PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Solar Radiation (SR)

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



Summary

Maximum 1-hr Average:	931.6	W/m²	24-Jun	12:00 13:00
Maximum 24-hr Value:	362.7	W/m²	24-Jun	

AIC Time:	0 hrs	Operational Time:	720 hrs	
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%	

Percentile	99	95	75	50	25	5	1	Average	Median
	906.4	838.9	456.7	100.2	0.2	0.0	0.0	249.1 W/m²	100.2 W/m²

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-06	0	0	0	0	16	136	243	397	523	661	836	862	916	854	548	666	507	363	213	62	3	0	0	0	325.3	915.6
2-Jun-06	0	0	0	0	7	61	242	350	597	550	677	640	776	852	749	666	543	325	174	59	2	0	0	0	303.0	851.8
3-Jun-06	0	0	0	0	12	60	129	355	540	471	704	829	610	756	831	708	544	407	248	67	5	0	0	0	303.3	831.5
4-Jun-06	0	0	0	0	18	131	283	426	580	416	621	507	638	495	570	531	294	315	65	4	0	0	0	0	245.7	637.8
5-Jun-06	0	0	0	0	5	25	62	284	584	726	807	835	789	761	586	610	529	397	237	64	3	0	0	0	304.4	834.8
6-Jun-06	0	0	0	0	16	119	270	436	596	731	832	897	908	884	809	703	537	386	199	48	8	0	0	0	349.2	908.1
7-Jun-06	0	0	0	0	11	88	138	250	426	525	808	840	904	598	822	701	470	132	112	37	4	0	0	0	286.1	904.4
8-Jun-06	0	0	0	0	2	10	14	42	43	51	94	83	102	70	42	38	38	15	13	9	1	0	0	0	27.8	102.3
9-Jun-06	0	0	0	0	3	15	49	91	117	168	204	182	223	311	312	205	157	73	37	11	2	0	0	0	90.0	311.7
10-Jun-06	0	0	0	0	2	20	50	94	126	96	103	100	152	106	246	241	143	122	53	24	3	0	0	0	70.0	246.2
11-Jun-06	0	0	0	0	5	54	123	148	195	454	644	415	355	337	236	198	333	301	255	60	7	0	0	0	171.7	644.2
12-Jun-06	0	0	0	0	14	51	182	440	586	730	808	895	884	866	554	442	398	253	142	79	6	0	0	0	305.4	894.7
13-Jun-06	0	0	0	0	7	85	262	381	354	719	767	705	689	895	671	664	518	272	97	24	3	0	0	0	296.4	894.6
14-Jun-06	0	0	0	0	8	16	143	331	448	684	772	746	536	269	69	10	30	42	49	7	1	0	0	0	173.5	772.5
15-Jun-06	0	0	0	0	2	18	42	119	324	254	302	274	341	348	214	108	108	48	62	31	5	0	0	0	108.4	348.2
16-Jun-06	0	0	0	0	6	42	82	114	275	582	825	927	846	647	700	204	91	74	55	55	7	0	0	0	230.5	926.9
17-Jun-06	0	0	0	0	14	110	108	294	578	644	718	310	110	817	380	171	276	260	190	60	9	0	0	0	210.4	817.1
18-Jun-06	0	0	0	0	15	127	281	445	599	735	850	839	681	813	652	679	584	425	249	83	9	0	0	0	336.1	850.0
19-Jun-06	0	0	0	0	19	135	265	425	604	694	579	548	332	241	104	73	90	63	34	6	1	0	0	0	175.6	693.6
20-Jun-06	0	0	0	0	19	100	72	140	179	156	124	160	251	287	432	145	27	209	239	83	9	0	0	0	109.6	432.3
21-Jun-06	0	0	0	0	15	122	271	433	591	723	812	842	532	773	472	465	524	347	207	83	5	0	0	0	300.8	842.4
22-Jun-06	0	0	0	0	8	39	126	159	149	159	557	732	474	764	604	675	244	41	74	113	8	0	0	0	205.3	764.3
23-Jun-06	0	0	0	0	18	91	240	392	525	713	666	737	399	400	273	585	521	330	243	82	8	0	0	0	259.3	737.4
24-Jun-06	0	0	0	0	20	130	273	436	600	736	855	929	932	900	829	717	577	418	259	88	8	0	0	0	362.7	931.6
25-Jun-06	0	0	0	0	18	121	268	429	584	724	831	891	908	876	811	696	564	409	248	85	8	0	0	0	353.0	908.4
26-Jun-06	0	0	0	0	16	116	261	419	572	700	820	896	888	832	850	709	531	404	242	84	8	0	0	0	347.9	895.9
27-Jun-06	0	0	0	0	16	122	272	437	596	733	839	907	927	892	823	718	580	417	258	86	7	0	0	0	359.6	926.8
28-Jun-06	0	0	0	0	15	112	259	416	567	724	820	882	901	878	811	704	558	396	192	57	10	0	0	0	345.9	900.6
29-Jun-06	0	0	0	0	13	105	202	232	523	294	419	273	387	415	720	609	372	279	131	63	10	0	0	0	210.3	720.4
30-Jun-06	0	0	0	0	3	22	55	172	435	621	794	873	852	827	775	702	561	399	194	26	2	0	0	0	304.7	873.0
Hourly Avg	0.1	0.1	0.1	0.2	11.4	79.5	175.5	302.9	447.2	539.1	649.5	651.9	608.1	625.5	549.8	478.0	375.0	264.1	159.0	54.7	5.5	0.1	0.1	0.1		
Hourly Max	0.3	0.3	0.3	0.4	19.9	136.5	282.9	444.8	603.8	735.8	854.9	929.3	931.6	899.9	849.8	717.7	584.1	424.9	258.7	113.4	10.1	0.2	0.2	0.2		

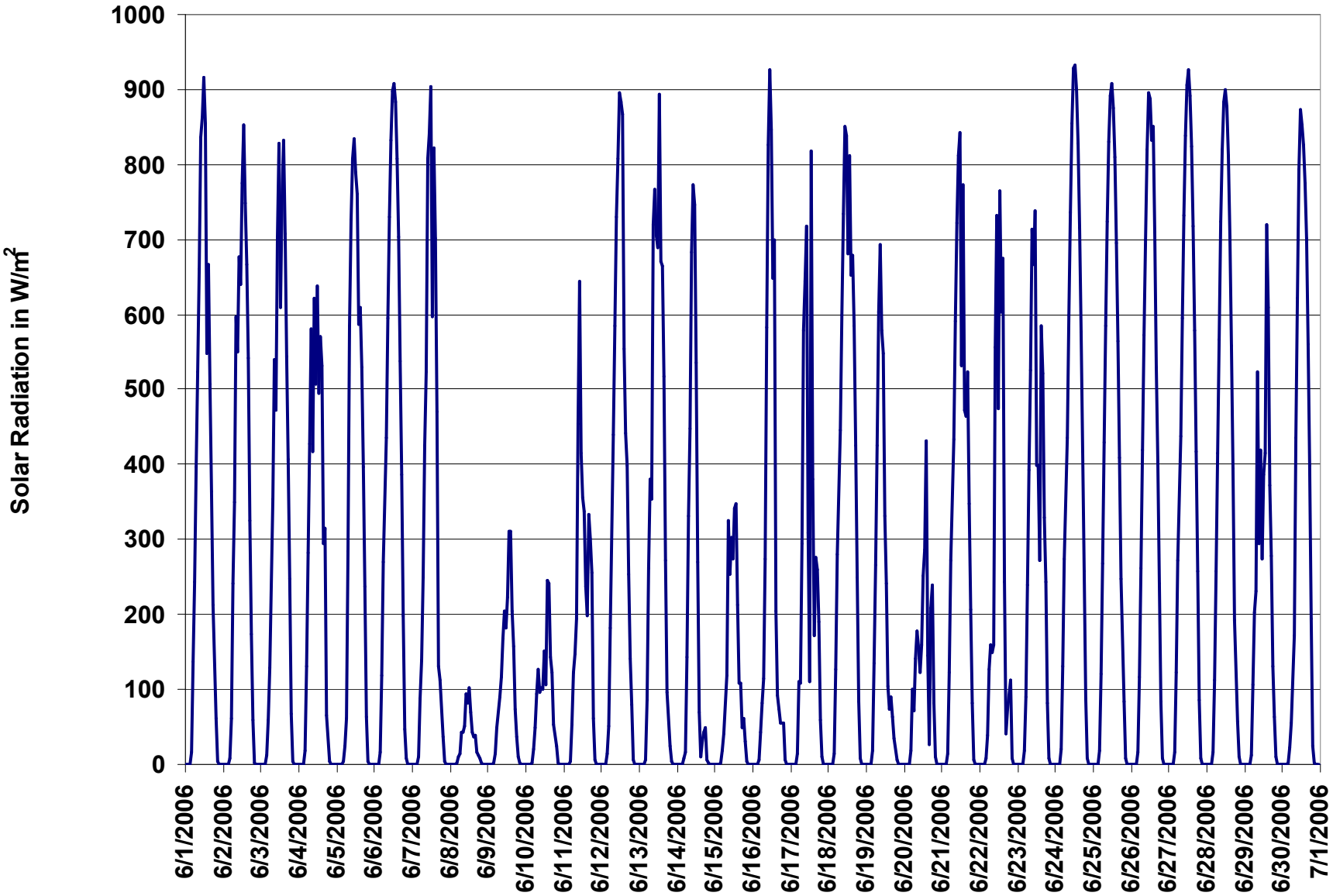


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend

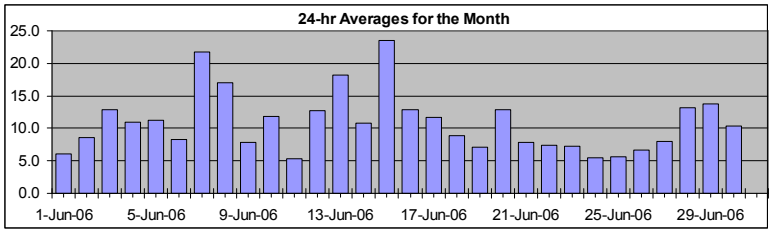
PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Speed (WSs)

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



Summary

Maximum 1-hr Average:	37.5	km/hr	15-Jun	13:00 14:00
Maximum 24-hr Value:	23.6	km/hr	15-Jun	

Calm Time:	0 hrs	**0%** calms	Operational Time: 720 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageS
	32.1	22.7	13.8	9.6	6.3	3.6	2.3	10.9 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-Jun-06	6	5	3	4	2	2	2	2	2	4	11	11	12	12	7	8	10	12	11	4	3	5	4	3	6.0	12.4
2-Jun-06	6	8	8	8	7	6	6	9	13	11	11	12	8	8	9	8	9	6	8	6	3	10	20	6	8.6	19.6
3-Jun-06	12	16	19	19	23	21	15	17	16	13	10	9	10	11	9	9	9	13	15	14	10	7	8	8	12.9	22.7
4-Jun-06	14	11	15	14	14	18	10	13	9	12	14	10	11	11	6	5	3	5	7	28	8	5	9	11	11.0	28.3
5-Jun-06	11	13	6	6	8	7	6	7	14	13	15	13	12	14	14	17	16	17	13	10	8	9	8	12	11.2	17.0
6-Jun-06	14	18	9	4	3	5	8	8	9	7	7	7	8	8	7	9	9	8	8	8	10	10	8	6	8.3	18.1
7-Jun-06	10	9	15	20	16	12	10	12	19	19	20	23	23	23	26	26	29	28	30	30	32	33	28	28	21.7	33.0
8-Jun-06	24	24	20	18	18	15	16	15	19	18	13	15	19	22	22	20	19	15	14	15	13	14	11	9	17.0	23.6
9-Jun-06	3	3	5	5	5	6	6	6	7	8	8	9	9	9	9	11	11	10	8	8	11	9	11	11	7.8	11.4
10-Jun-06	8	10	7	8	11	10	13	14	18	20	17	18	18	15	18	16	14	14	9	6	4	5	5	5	11.8	19.9
11-Jun-06	5	4	3	2	3	7	6	6	9	8	9	7	5	7	7	4	5	5	6	6	4	3	2	6	5.3	8.8
12-Jun-06	10	12	6	9	12	10	9	13	14	14	13	14	14	15	14	14	14	14	15	14	13	17	14	14	12.8	17.4
13-Jun-06	15	13	11	11	20	11	9	13	14	16	21	23	23	24	23	24	24	23	18	19	20	18	22	22	18.2	24.3
14-Jun-06	19	19	21	20	10	10	7	10	6	7	6	9	9	8	16	16	6	11	8	6	5	10	9	9	10.7	21.0
15-Jun-06	5	11	13	17	18	20	28	30	33	31	34	34	36	38	33	25	27	25	24	23	21	12	13	13	23.6	37.5
16-Jun-06	13	12	12	12	11	10	11	9	12	15	16	15	15	18	20	18	18	12	7	7	11	12	15	10	12.9	19.6
17-Jun-06	7	8	6	9	12	13	14	12	14	14	13	16	9	8	15	17	12	13	12	11	11	11	11	9	11.6	16.8
18-Jun-06	9	8	6	9	9	11	13	12	10	9	11	11	10	10	11	10	12	10	10	6	2	3	6	6	8.9	13.3
19-Jun-06	6	5	8	6	5	3	4	6	4	5	6	8	8	8	16	18	13	6	5	7	8	7	3	5	7.1	17.9
20-Jun-06	6	9	10	11	11	14	11	14	17	16	17	18	20	17	17	17	14	9	10	11	10	11	11	9	12.8	20.5
21-Jun-06	8	9	8	6	4	5	6	7	7	10	9	11	9	10	9	8	8	7	8	14	8	8	4	4	7.8	14.3
22-Jun-06	5	4	4	4	4	5	4	4	6	4	11	10	13	11	7	7	7	8	14	16	9	6	7	9	7.4	16.5
23-Jun-06	6	5	6	9	3	4	5	4	5	6	7	7	6	7	10	12	12	11	11	11	13	4	5	7	7.3	12.6
24-Jun-06	5	3	3	3	3	3	4	3	4	5	8	7	7	6	7	7	6	6	6	7	7	5	8	7	5.5	8.4
25-Jun-06	4	4	3	2	4	5	4	7	6	4	5	7	6	5	10	9	10	9	8	6	4	4	3	5	5.6	10.2
26-Jun-06	5	6	5	6	7	6	5	4	5	5	7	9	8	8	8	9	6	7	6	8	8	7	7	8	6.6	9.1
27-Jun-06	5	4	5	5	6	5	4	4	6	12	12	11	12	12	10	11	11	11	7	6	5	6	9	11	8.0	12.5
28-Jun-06	14	13	13	13	10	14	14	8	10	17	20	21	21	21	19	14	13	11	6	6	5	11	10	13	13.2	21.5
29-Jun-06	13	14	13	17	19	18	12	14	19	19	19	16	15	14	13	14	14	13	13	11	7	10	8	4	13.7	19.4
30-Jun-06	4	3	6	6	4	7	8	9	8	5	10	12	13	13	14	17	16	16	15	6	5	25	17	10	10.4	25.1
1-hr Average	9.1	9.4	8.9	9.4	9.4	9.4	8.9	9.7	11.2	11.6	12.7	12.9	13.0	13.1	13.7	13.3	12.5	11.8	11.0	11.1	9.2	9.9	9.9	9.3		
Hourly Max	23.6	23.6	21.0	20.1	22.7	21.1	28.0	30.3	33.4	31.3	34.0	33.7	36.4	37.5	33.5	25.9	28.7	28.4	30.2	30.2	32.3	33.0	27.6	27.7		

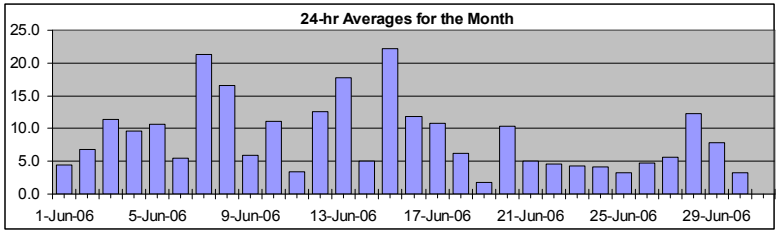
PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Speed (WSv)

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



Summary

Maximum 1-hr Average:	37.2	km/hr	15-Jun	13:00 14:00
Maximum 24-hr Value:	22.1	km/hr	15-Jun	

Calm Time:	3 hrs	**0%** calms			Operational Time:			717 hrs		
Calibration Time:	0 hrs				AMD Operational Uptime:			100.0%		
Percentile	99	95	75	50	25	5	1			AverageV
	32.0	22.4	13.4	9.0	5.7	2.6	1.6			1.5 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-Jun-06	6	4	3	4	2	2	1	2	calm	3	10	10	12	12	5	7	9	12	11	4	3	5	4	3	4.5	12.0
2-Jun-06	6	8	8	8	5	6	6	9	13	10	11	12	7	8	8	7	8	5	8	4	2	9	19	2	6.8	19.5
3-Jun-06	11	16	19	19	23	21	15	16	16	12	9	8	9	10	8	8	8	13	15	14	10	7	7	7	11.4	22.6
4-Jun-06	13	11	15	14	14	18	10	12	9	11	13	10	10	10	6	4	2	5	3	28	6	3	9	10	9.7	28.2
5-Jun-06	11	13	6	6	8	7	6	7	14	13	15	12	11	14	14	17	16	17	12	10	8	8	8	11	10.7	16.8
6-Jun-06	13	18	9	4	3	4	7	8	9	6	6	6	6	7	4	8	7	7	7	8	10	10	8	6	5.5	18.0
7-Jun-06	9	9	14	19	16	12	10	12	19	19	20	23	23	22	26	26	28	28	30	30	32	33	28	27	21.3	32.9
8-Jun-06	23	23	20	18	18	15	16	15	19	18	13	14	19	22	22	19	19	14	14	15	13	14	11	9	16.6	23.5
9-Jun-06	3	2	5	5	5	6	6	5	7	7	8	8	8	8	9	10	10	10	8	8	11	9	11	11	5.9	11.4
10-Jun-06	8	10	7	8	11	10	13	14	18	20	17	18	18	15	18	16	14	14	9	6	4	5	5	5	11.1	19.8
11-Jun-06	5	4	3	2	3	7	6	6	9	8	8	6	3	7	6	1	5	5	1	6	4	3	2	5	3.4	8.8
12-Jun-06	10	12	6	8	11	9	9	12	14	13	12	13	13	14	13	13	13	14	15	14	13	17	14	14	12.6	17.3
13-Jun-06	15	12	11	11	20	10	8	12	13	16	21	22	23	23	23	24	24	23	18	19	20	18	22	22	17.8	24.2
14-Jun-06	19	18	21	20	7	9	5	8	6	6	5	6	8	8	15	7	4	11	5	2	3	10	8	9	5.0	20.6
15-Jun-06	5	8	12	17	18	20	28	30	33	31	34	33	36	37	33	25	27	25	24	23	21	11	13	13	22.1	37.2
16-Jun-06	13	12	12	12	11	10	10	9	11	14	15	15	14	17	19	18	18	12	7	7	11	11	15	9	11.8	19.2
17-Jun-06	7	8	6	8	12	13	14	12	14	13	13	15	8	7	12	16	12	13	12	11	11	11	11	8	10.8	16.5
18-Jun-06	9	8	6	9	9	11	13	12	10	4	11	9	9	9	10	9	11	9	9	6	1	2	6	6	6.2	13.1
19-Jun-06	6	5	8	6	5	3	4	6	3	3	6	4	8	7	15	17	11	6	5	7	8	7	2	3	1.8	17.3
20-Jun-06	6	8	10	10	11	14	11	13	17	16	16	18	20	16	16	15	13	8	10	11	9	11	10	8	10.4	20.1
21-Jun-06	8	8	8	6	2	5	6	7	6	10	8	10	9	9	8	7	7	2	8	14	8	8	3	2	5.1	14.1
22-Jun-06	5	4	3	3	3	5	1	2	3	4	9	10	12	10	6	6	7	2	9	16	8	6	6	7	4.5	16.2
23-Jun-06	5	4	6	9	2	4	5	3	3	4	6	5	3	6	10	11	12	9	10	9	13	4	4	6	4.3	12.5
24-Jun-06	5	calm	2	2	calm	3	3	2	2	5	8	4	5	5	6	4	6	6	5	7	7	5	8	7	4.2	8.1
25-Jun-06	4	4	3	2	4	5	4	6	6	3	4	3	3	3	9	7	10	8	8	6	4	2	2	5	3.3	9.6
26-Jun-06	5	5	2	5	7	6	5	3	3	4	7	9	6	6	7	8	4	7	6	8	8	7	7	8	4.7	8.7
27-Jun-06	5	3	5	5	6	5	4	4	5	12	11	10	11	11	10	10	10	11	7	6	5	6	9	11	5.6	11.8
28-Jun-06	13	13	13	13	9	14	14	8	10	17	20	21	21	20	19	14	13	11	6	5	4	10	10	13	12.3	20.8
29-Jun-06	13	14	13	16	19	18	11	14	19	18	19	16	14	13	12	14	13	13	12	11	7	10	8	2	7.9	19.3
30-Jun-06	4	1	6	6	4	7	8	9	8	3	9	11	12	12	13	17	16	15	15	6	4	18	16	9	3.3	17.5
1-hr Vector	2.5	1.9	1.3	1.9	2.4	3.4	3.1	2.5	3.0	2.6	2.3	2.5	1.4	1.7	1.1	1.5	2.3	1.3	1.3	0.6	1.3	1.5	2.2	2.3		
Hourly Max	23.4	23.5	20.6	19.6	22.6	20.9	27.9	30.1	33.2	31.2	33.7	33.4	36.1	37.2	33.2	25.6	28.3	28.2	30.0	30.0	32.1	32.9	27.5	27.5		

PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	**0%** calms					Operational Time:																		720 hrs
Calibration Time:	0 hrs						AMD Operational Uptime:																		100.0%
Percentile	99	95	75	50	25	5	1	Average																	
	356.7	345.3	261.6	213.4	100.8	30.4	2.0	212 deg																	

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-Jun-06	137	116	123	124	93	98	42	31	351	178	170	184	200	209	190	173	199	214	211	195	125	105	109	215	178	S
2-Jun-06	220	214	211	226	236	237	239	238	229	218	213	210	192	202	190	221	214	293	348	14	88	199	209	295	221	SW
3-Jun-06	220	222	221	212	214	222	232	247	262	272	300	286	298	313	275	277	232	238	231	234	246	235	236	253	243	WSW
4-Jun-06	229	223	220	230	227	222	234	223	190	206	208	194	208	197	182	183	138	86	91	215	260	225	229	244	215	SW
5-Jun-06	223	222	226	290	286	286	268	229	224	239	235	264	276	248	246	239	248	249	250	254	253	248	235	222	246	WSW
6-Jun-06	257	326	332	288	288	267	306	337	347	346	345	317	334	317	350	20	50	64	32	27	30	55	71	91	352	N
7-Jun-06	83	70	62	82	81	81	101	83	104	100	108	103	107	107	104	101	94	86	87	87	96	102	102	101	95	E
8-Jun-06	96	80	56	62	72	74	90	91	91	79	81	80	82	91	90	101	103	99	100	102	95	85	95	97	87	E
9-Jun-06	91	153	246	253	260	275	286	293	270	281	272	297	307	310	319	345	352	351	352	9	356	355	344	345	321	NW
10-Jun-06	356	359	2	357	357	349	349	349	360	6	359	359	0	357	350	351	341	339	332	322	312	289	274	270	349	N
11-Jun-06	259	262	233	235	221	225	228	223	225	226	216	244	286	234	291	185	228	223	262	50	345	16	85	55	241	WSW
12-Jun-06	79	86	80	79	79	52	77	91	100	95	94	81	73	61	78	78	80	73	70	78	74	85	90	89	80	E
13-Jun-06	81	73	81	101	97	105	59	78	83	97	99	103	101	104	105	108	107	107	99	87	85	91	82	82	94	E
14-Jun-06	87	93	92	93	82	84	47	80	165	167	116	234	250	314	16	69	205	191	196	282	311	17	45	102	88	E
15-Jun-06	101	263	241	216	209	210	214	208	210	203	203	200	201	199	198	192	194	194	197	198	205	235	268	275	207	SSW
16-Jun-06	283	284	286	285	280	294	290	291	289	300	311	301	292	257	254	263	256	258	245	226	242	233	230	235	271	W
17-Jun-06	255	262	291	248	236	243	252	267	279	297	295	296	277	318	312	244	256	254	260	262	263	270	271	256	269	W
18-Jun-06	231	226	228	235	235	232	223	226	225	298	338	313	314	306	284	257	237	244	232	243	324	76	112	113	253	WSW
19-Jun-06	130	127	135	113	133	92	91	92	95	266	255	189	110	119	191	195	238	315	329	1	338	12	321	277	167	SSE
20-Jun-06	205	206	219	229	244	237	257	270	276	281	294	304	307	312	322	344	302	316	235	234	259	264	290	281	278	W
21-Jun-06	274	265	240	227	217	253	227	229	246	347	326	327	323	304	329	340	353	342	236	221	231	239	199	197	275	W
22-Jun-06	113	132	169	165	130	123	116	275	139	122	39	46	30	37	66	104	98	64	318	30	63	110	140	112	73	ENE
23-Jun-06	256	273	3	1	353	206	219	209	212	287	352	326	39	3	320	275	240	259	295	336	19	0	254	248	302	WNW
24-Jun-06	272	210	63	30	17	128	191	173	31	140	118	122	123	133	118	115	106	108	103	97	85	104	109	124	114	ESE
25-Jun-06	91	78	77	69	5	348	7	354	6	71	192	316	155	98	20	13	7	349	351	357	360	0	135	164	20	NNE
26-Jun-06	170	168	152	186	202	208	217	254	207	123	113	107	100	114	73	109	72	100	104	81	77	107	107	112	122	ESE
27-Jun-06	117	40	11	1	7	61	86	78	165	202	164	173	159	160	170	169	156	145	164	143	120	140	171	183	153	SSE
28-Jun-06	187	187	183	184	227	238	234	268	233	224	227	229	239	241	244	252	250	256	251	216	201	225	225	231	228	SW
29-Jun-06	233	234	241	231	228	231	263	288	301	305	312	326	327	329	341	339	351	1	11	30	17	40	55	100	306	NW
30-Jun-06	92	222	10	33	88	108	93	110	107	112	217	220	220	211	215	222	218	209	222	255	291	347	74	123	194	SSW
Hourly Avg	177	202	202	194	208	220	235	241	229	242	235	251	247	232	263	195	205	205	224	142	57	73	135	153		

PAS - Crescent Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	**0%** calms	Operational Time: 720 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1
	57.9	45.3	19.1	11.5	7.8	5.3	4.4

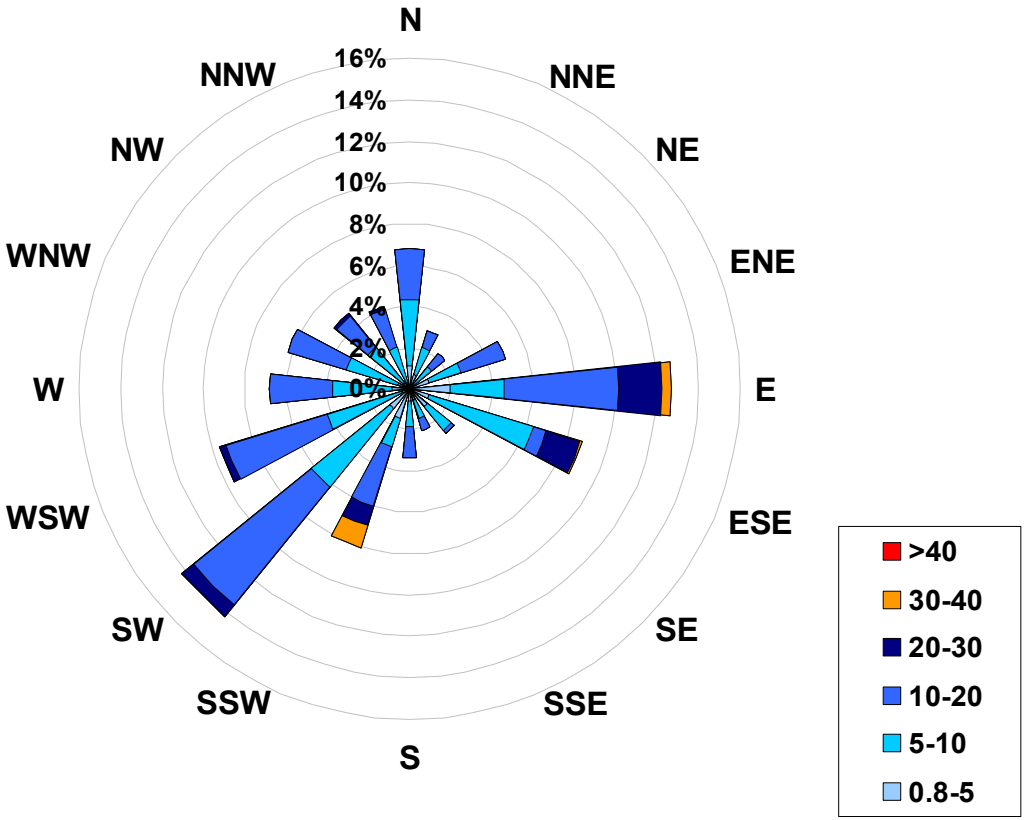
Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jun-06	14	26	15	11	15	18	16	18	50	42	17	16	17	14	28	28	25	9	7	23	28	5	11	43	50.1
2-Jun-06	7	7	5	7	24	18	9	20	11	12	13	11	23	30	30	25	18	34	8	40	25	33	7	49	49.0
3-Jun-06	11	5	5	4	4	6	6	8	9	11	20	27	21	16	27	22	23	11	7	6	8	35	11	13	35.4
4-Jun-06	7	6	5	4	4	5	14	10	17	13	14	18	18	21	24	46	42	18	42	5	24	57	10	11	56.6
5-Jun-06	7	6	12	11	10	9	10	11	8	11	14	13	18	15	12	9	8	9	8	7	11	7	8	8	18.2
6-Jun-06	10	6	15	19	54	22	16	15	16	31	38	29	39	35	40	30	28	26	13	8	4	8	9	12	54.5
7-Jun-06	10	10	7	12	9	9	9	9	6	10	10	9	8	8	9	9	9	6	6	5	6	4	5	4	12.0
8-Jun-06	5	6	4	5	4	7	6	6	7	6	7	9	7	7	7	7	7	9	8	6	7	8	8	7	9.2
9-Jun-06	10	21	14	10	10	10	13	16	16	16	16	16	15	16	13	10	9	10	7	8	7	5	5	5	21.4
10-Jun-06	8	6	7	6	6	7	7	6	6	4	5	5	6	5	6	5	6	5	8	8	14	10	11	10	14.0
11-Jun-06	8	9	23	44	41	7	7	13	7	18	24	28	51	19	18	31	15	9	39	9	8	22	20	8	51.0
12-Jun-06	6	6	9	10	7	6	9	12	12	13	15	15	19	13	16	12	10	9	6	6	6	6	7	8	19.1
13-Jun-06	7	10	7	6	8	20	12	10	10	10	10	8	8	8	7	6	6	6	6	6	5	6	5	6	19.9
14-Jun-06	8	9	9	11	33	25	27	19	21	19	39	29	18	23	14	18	61	15	38	28	27	10	10	11	61.2
15-Jun-06	15	17	12	8	6	6	5	12	7	6	7	8	7	7	7	7	7	6	6	6	5	15	7	8	17.5
16-Jun-06	10	9	11	9	9	10	11	13	15	13	15	13	15	10	11	7	6	10	12	11	8	10	5	9	14.9
17-Jun-06	9	14	15	11	5	6	7	9	12	15	16	12	21	29	18	7	7	8	7	8	8	8	9	9	29.3
18-Jun-06	9	6	15	10	6	7	10	10	17	37	21	30	21	27	19	20	19	16	16	18	29	20	6	6	36.5
19-Jun-06	6	9	7	11	14	22	13	14	45	56	25	27	19	11	19	10	11	12	13	11	8	12	32	50	55.9
20-Jun-06	33	11	8	9	16	6	9	11	8	8	10	9	9	10	11	17	13	20	11	9	8	6	15	11	32.7
21-Jun-06	11	9	5	21	48	14	15	18	41	19	26	22	17	23	25	23	22	30	11	9	18	8	51	66	66.4
22-Jun-06	14	20	33	29	31	13	55	62	65	20	20	18	11	18	35	31	11	31	22	6	8	8	18	31	64.6
23-Jun-06	27	31	13	5	24	37	25	49	58	53	25	46	57	31	12	18	12	16	12	13	5	12	32	7	58.3
24-Jun-06	23	57	20	55	46	30	26	66	50	31	19	42	37	53	29	49	28	18	30	6	6	14	6	10	65.6
25-Jun-06	18	7	17	14	6	6	10	11	18	39	51	33	62	58	29	35	16	17	15	10	7	23	33	9	61.5
26-Jun-06	12	15	57	11	5	16	18	45	48	48	17	17	37	31	29	26	42	17	16	7	8	9	11	8	56.7
27-Jun-06	11	14	12	11	14	15	12	19	33	14	13	17	18	19	20	20	18	16	23	12	7	10	8	9	33.1
28-Jun-06	9	7	7	7	19	5	5	13	16	9	9	9	10	10	8	13	10	9	13	12	47	15	7	10	47.3
29-Jun-06	7	7	12	5	4	7	20	12	9	11	10	10	15	13	17	13	12	9	9	6	8	4	5	54	53.6
30-Jun-06	19	51	10	9	22	8	15	8	12	42	25	22	26	20	19	12	12	13	9	12	15	28	11	11	51.0
Hourly Max	33	57	57	55	54	37	55	66	65	56	51	46	62	58	40	49	61	34	42	40	47	57	51	66	

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



Calms:	0%

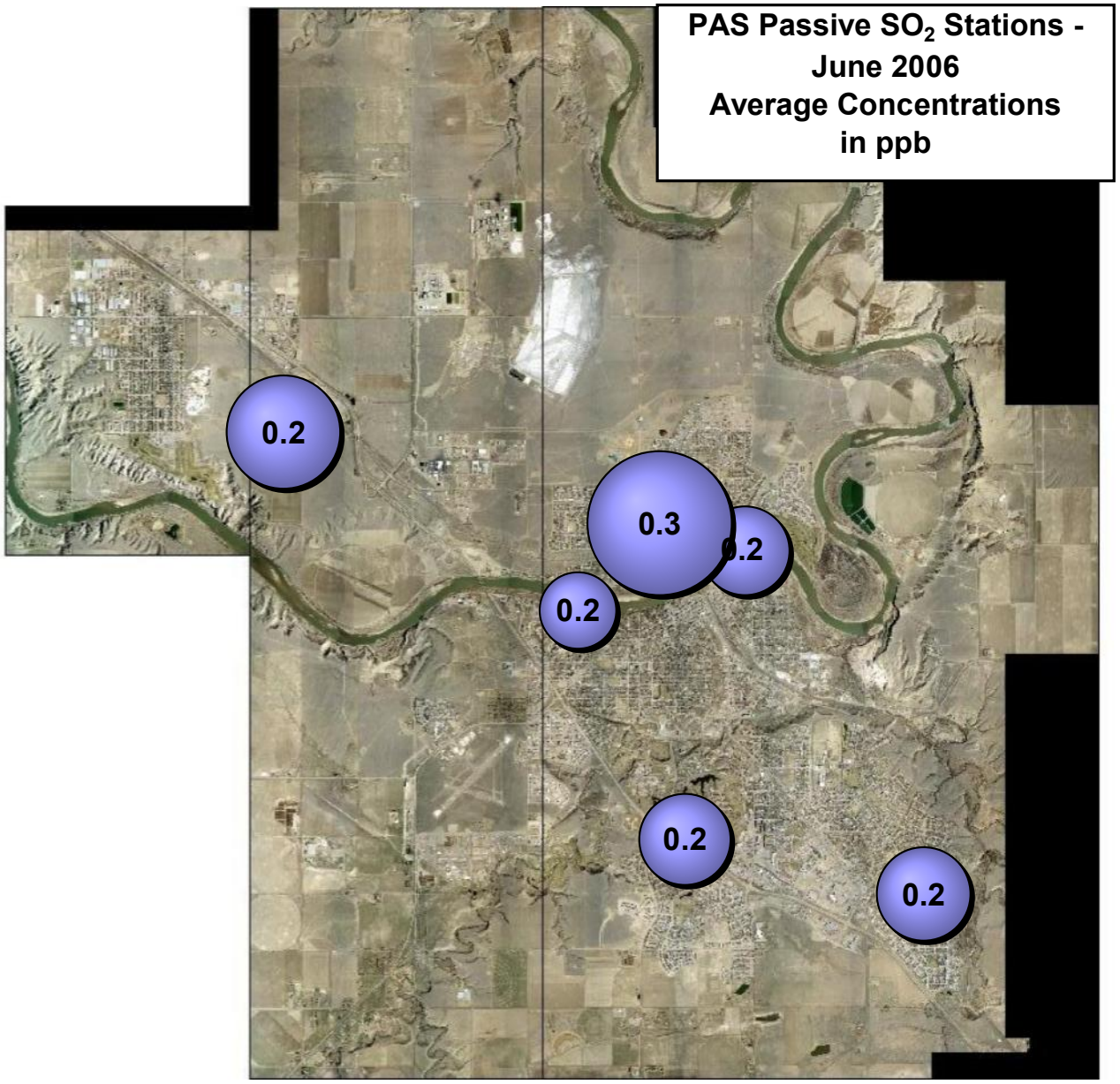
Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	97
5	to	10	278
10	to	20	290
20	to	30	43
30	to	40	12
	>	40	0
Total Non-Zero Values			720

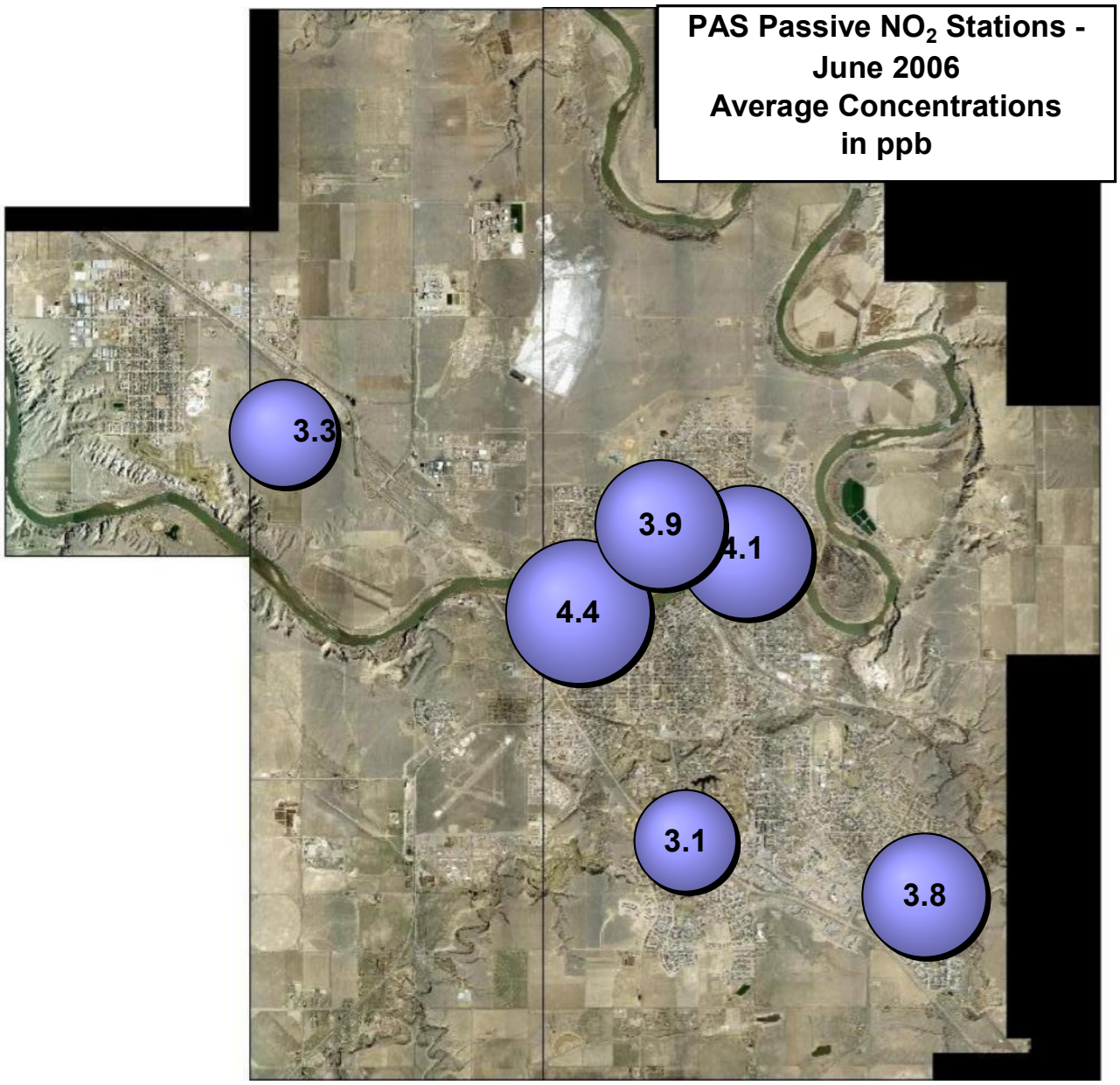
Passive Monitoring – June 2006

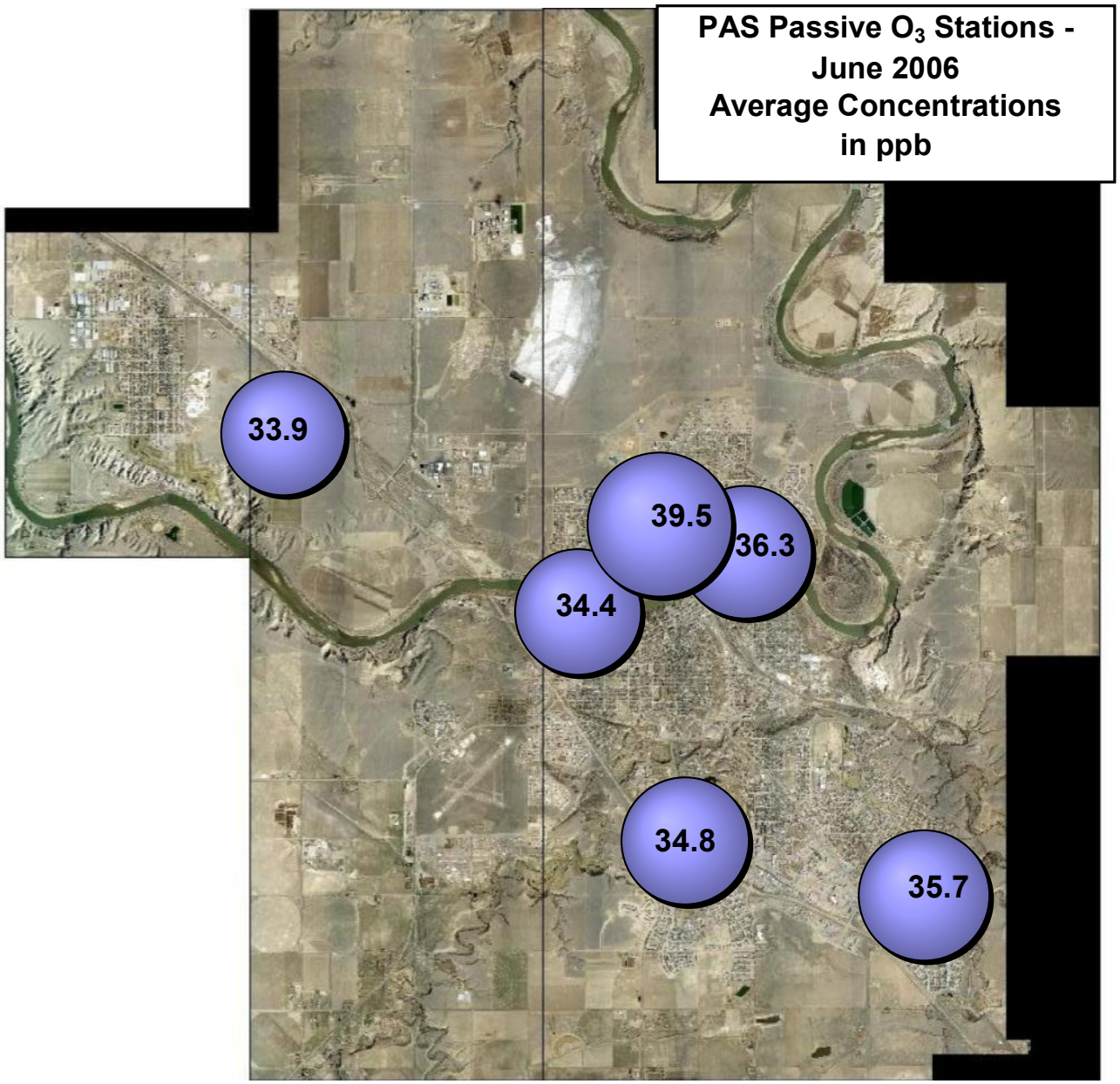
Ambient Air Compliance Network

Palliser Airshed Society - PAS Passive Stations for June 2006

Station Number	Station Name	SO_2 ppb	O_3 ppb	NO_2 ppb	Location Easting	Northing	Elevation
Duplicates							
3a	Monitoring Station	**0.3**	**41.2**	**3.9**			
3b		**0.3**	**37.7**	**4.0**			
1	Hospital	**0.2**	**34.4**	**4.4**	521648	5542721	698
2	Ball Park	**0.2**	**36.3**	**4.1**	524019	5543686	660
3	Monitoring Station	**0.3**	**39.5**	**3.9**	522812	5544133	714
4	Redcliff	**0.2**	**33.9**	**3.3**	517448	5545608	725
5	Southridge	**0.2**	**34.8**	**3.1**	523172	5539016	721
6	Christian School Park	**0.2**	**35.7**	**3.8**	526577	5538133	709
Stats:							
	Mean	**0.2**	**35.8**	**3.8**			
	Standard Deviation	**0.0**	**2.0**	**0.5**			
	Minimum	**0.2**			**1**	**Hospital**	
	Maximum	**0.3**			**3**	**Monitoring Station**	
	Minimum		**33.9**		**4**	**Redcliff**	
	Maximum		**39.5**		**3**	**Monitoring Station**	
	Minimum			**3.1**	**5**	**Southridge**	
	Maximum			**4.4**	**1**	**Hospital**	


PAS Passive SO_2 Stations - June 2006
Average Concentrations in ppb
0.2
0.3
0.2
0.2
0.2
0.2


PAS Passive NO_2 Stations -
June 2006
Average Concentrations
in ppb
3.3
3.9
4.1
4.4
3.1
3.8


PAS Passive O_3 Stations -
June 2006
Average Concentrations
in ppb
33.9
39.5
36.3
34.4
34.8
35.7

PAS

June 2006 - Calibration Reports

Crescent Heights Station: O_3, NO_x, NO, NO_2, THC, CO

Calibration Report

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 15, 2006	Previous Calibration	May 14, 2006
Station Number	101	Station Location	Crescent Heights
Reason: Routine	Calibration	Removal	Other:
Start Time (MST)	8:03	End Time (MST)	11:12
Barometric Pressure	27.3 inches Hg	Station Temperature	19.7 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.023599	Calculated slope	0.997785
Calculated intercept	-4.448011	Calculated intercept	3.495678
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-6.1	ppb	-6.3	ppb
Slope	1.068		1.067	
Lamp measure	4792.7	mV	4892.7	mV
Lamp Reference	4793.6	mV	4792.5	mV
Pressure	25.7	inches Hg	25.0	inches Hg
Sample Flow	724	ccm	708	ccm
Sample temp	37	Deg C	38	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)
4990	0.0	0.0	-1.9	N/A
4990	300.0	269.2	268.6	1.0024
4990	200.0	187.2	181.3	1.0324
4990	100.0	101.8	97.5	1.0445
4990	0.0	0.0	-1.9	0.0000
4990	300.0	269.2	268.4	1.0028
			Average Correction Factor	1.0264

Calculated value of As Found Response: 272.3 ppm Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	-5.0	ppb	0.4	ppb
Auto span	356.8	ppb	348.1	ppb

Notes: As found performed June 14th; replaced blue reference scrubber.
Zero and Span Adjustment performed.

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

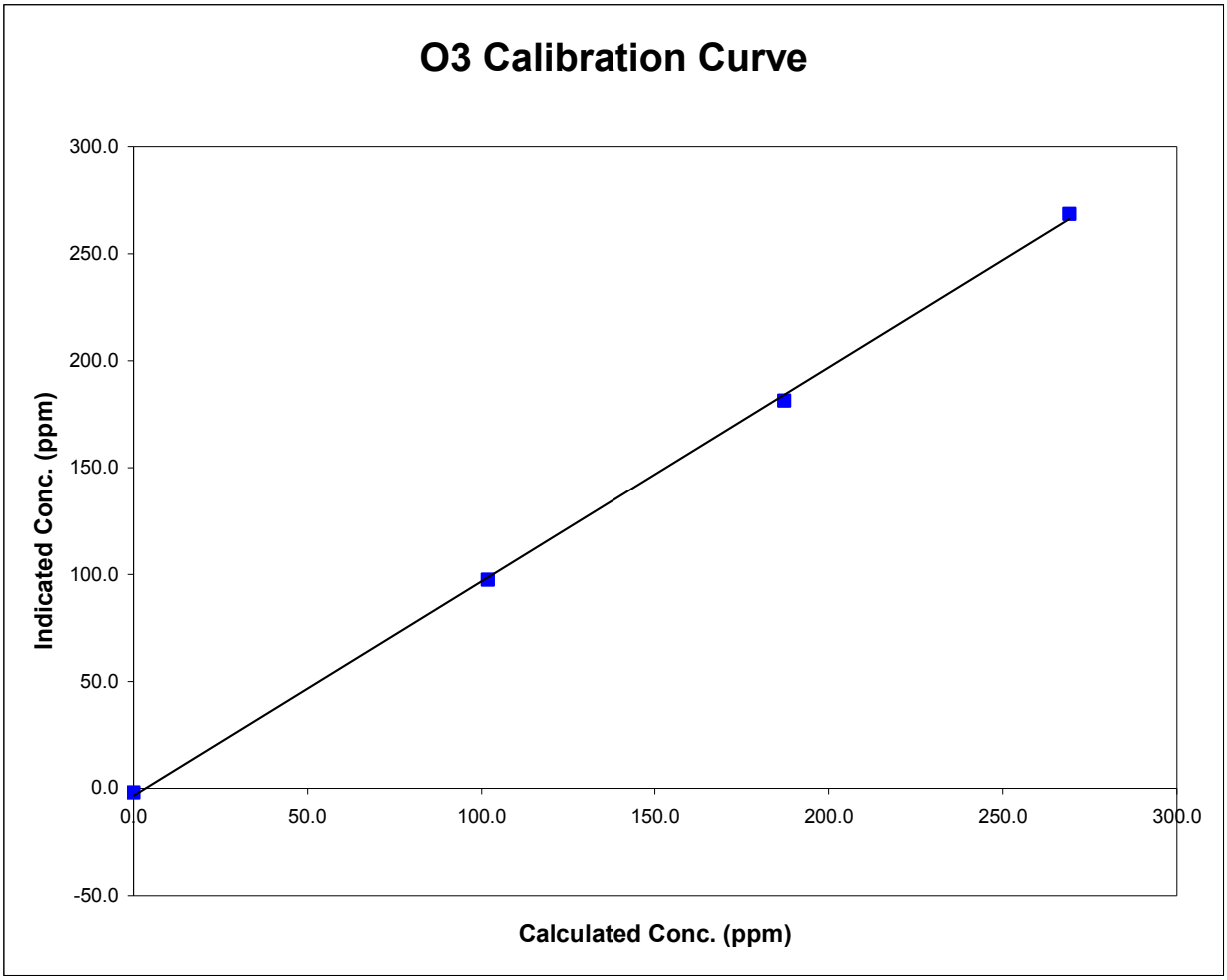
FOCUS AIR QUALITY MONITORING

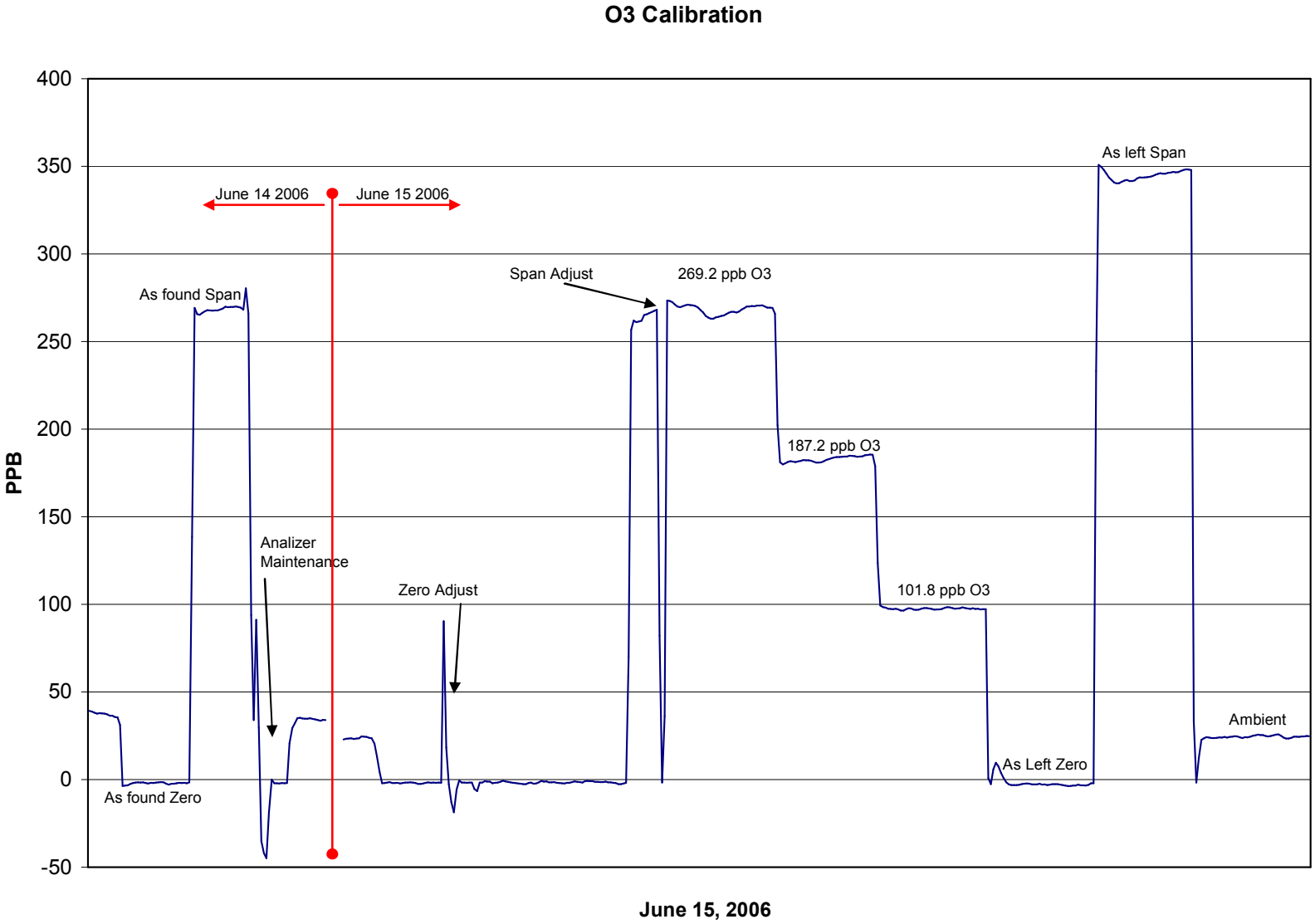
Station Information

Calibration Date	June 15, 2006	Previous Calibration	May 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	8:03	End Time (MST)	11:12
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	
269.2	268.6	1.0024		
187.2	181.3	1.0324	Correlation Coefficient	0.999590
101.8	97.5	1.0445		
0.0	-1.9	N/A	Slope	0.997785
			Intercept	3.495678




O3 Calibration
400
350
300
250
200
150
100
50
0
-50
PPB
June 14 2006
June 15 2006
As found Span
Span Adjust
269.2 ppb O3
As left Span
187.2 ppb O3
Analizer
Maintenance
Zero Adjust
101.8 ppb O3
Ambient
As Left Zero
As found Zero
June 15, 2006

Calibration Report

Parameter **$NOx-NO-NO_2$**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	10:50		End Time (MST)	15:03	
Barometric Pressure	27.3	inches Hg	Station Temperature	20.3	Deg C
Calibrator	Environics 6100		Serial Number	3474	
NO Cal Gas Conc	50.5	ppm	Cal Gas Expiry Date	22-Nov-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270

Parameter		NO2	NOx	NO
Before	Data Slope	0.991187	1.002622	1.023582
	Data Offset	-3.129814	-2.083387	1.265392
After	Data Slope	1.014194	1.011883	1.005853
	Data Offset	0.509312	-0.347709	0.866605
Channel #		8	6	7
Voltage Range		0 - 1 VDC	0 - 1 VDC	0 - 1 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	-0.2	mV	-0.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.085		1.130	
NOx coefficient	1.101		1.138	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	36.5		36.5	
Perm Temp	40.2	Deg C	40.2	Deg C
Pressure	4.6	inches Hg	4.6	inches Hg
Sample Flow	449.0	ccm	440.0	ccm

Notes: Span Adjustment

Calibration Report

Parameter **$NOx-NO-NO_2$**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: June 14, 2006 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	0.2	-1.1	0.0	N/A	N/A
1	4990	39.88	400.4	400.4	0.0	395.8	396.9	-2.0	1.0114	1.0086
2	4990	19.91	200.7	200.7	0.0	199.1	199.1	-1.1	1.0082	1.0083
3	4990	9.96	100.6	100.6	0.0	99.7	99.2	-1.1	1.0094	1.0136
AFZ	4990	0.00	0.0	0.0	0.0	0.2	-1.1	0.0	0.0000	0.0000
AFS	4990	39.88	400.4	400.4	0.0	382.5	379.5	2.1	1.0467	1.0549
							Average Correction Factor		1.0097	1.0102

As Found Concentrations NO_X= 380.2 NO= 381.9 As Found Percent Change NO_X= -5.0% NO= -4.6%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.88 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	402.5	400.0	2.5	398.1	396.8	0.0	N/A	N/A	N/A	N/A
300	405.7	303.9	101.8	401.3	301.3	99.2	1.0110	1.0087	1.0267	97.4%
200	405.4	218.2	187.2	401.0	216.1	183.9	1.0110	1.0099	1.0177	98.3%
100	403.8	134.7	269.2	399.4	133.0	265.3	1.0110	1.0124	1.0147	98.6%
					Average Correction Factor		1.0110	1.0103	1.0197	98.1%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	2.1	-0.7	2.1	ppb	-1.2	-1.0	-0.3	ppb
Auto span	413.7	404.2	8.6	ppb	375.0	372.0	5.0	ppb

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **Palliser Airshed**

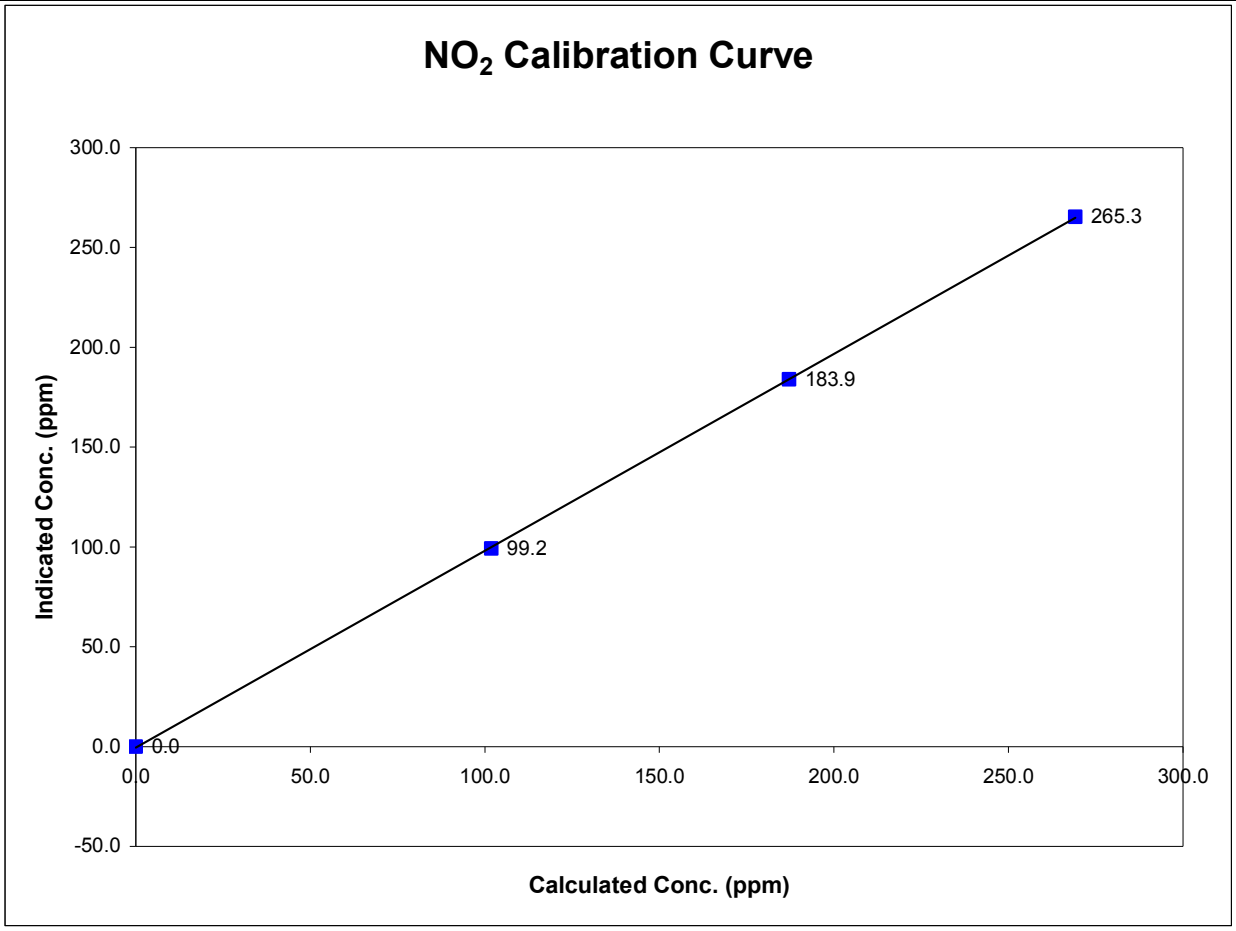
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:50	End Time (MST)	15:03
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	0.0	0.0000		
101.8	99.2	1.0267	Correlation Coefficient	0.999976
187.2	183.9	1.0177		
269.2	265.3	1.0147	Slope	1.014194
			Intercept	0.509312



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **Palliser Airshed**

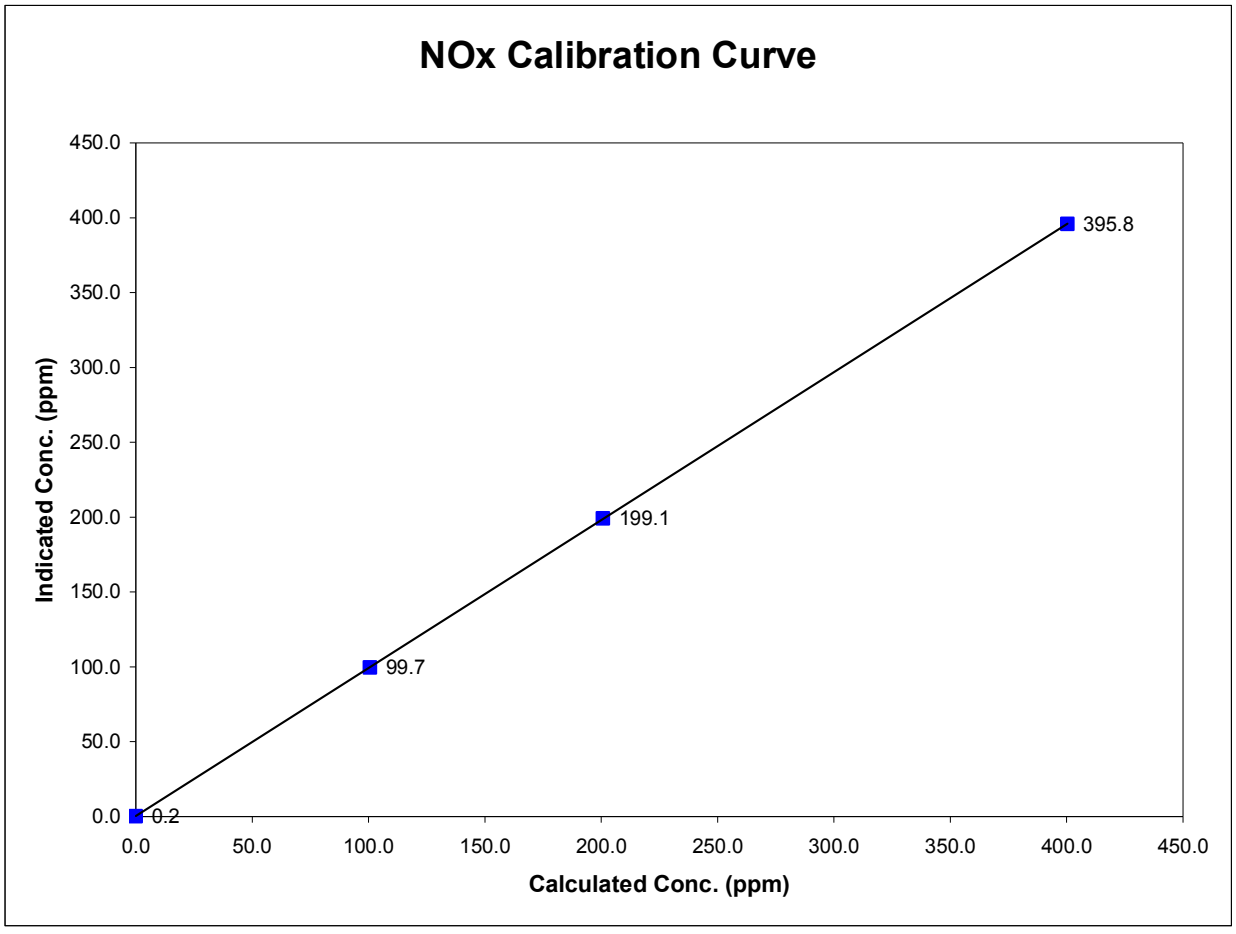
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:50	End Time (MST)	15:03
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	0.2	0.0000		
400.4	395.8	1.0114	Correlation Coefficient	0.999998
200.7	199.1	1.0082		
100.6	99.7	1.0094	Slope	1.011883
			Intercept	-0.347709



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**

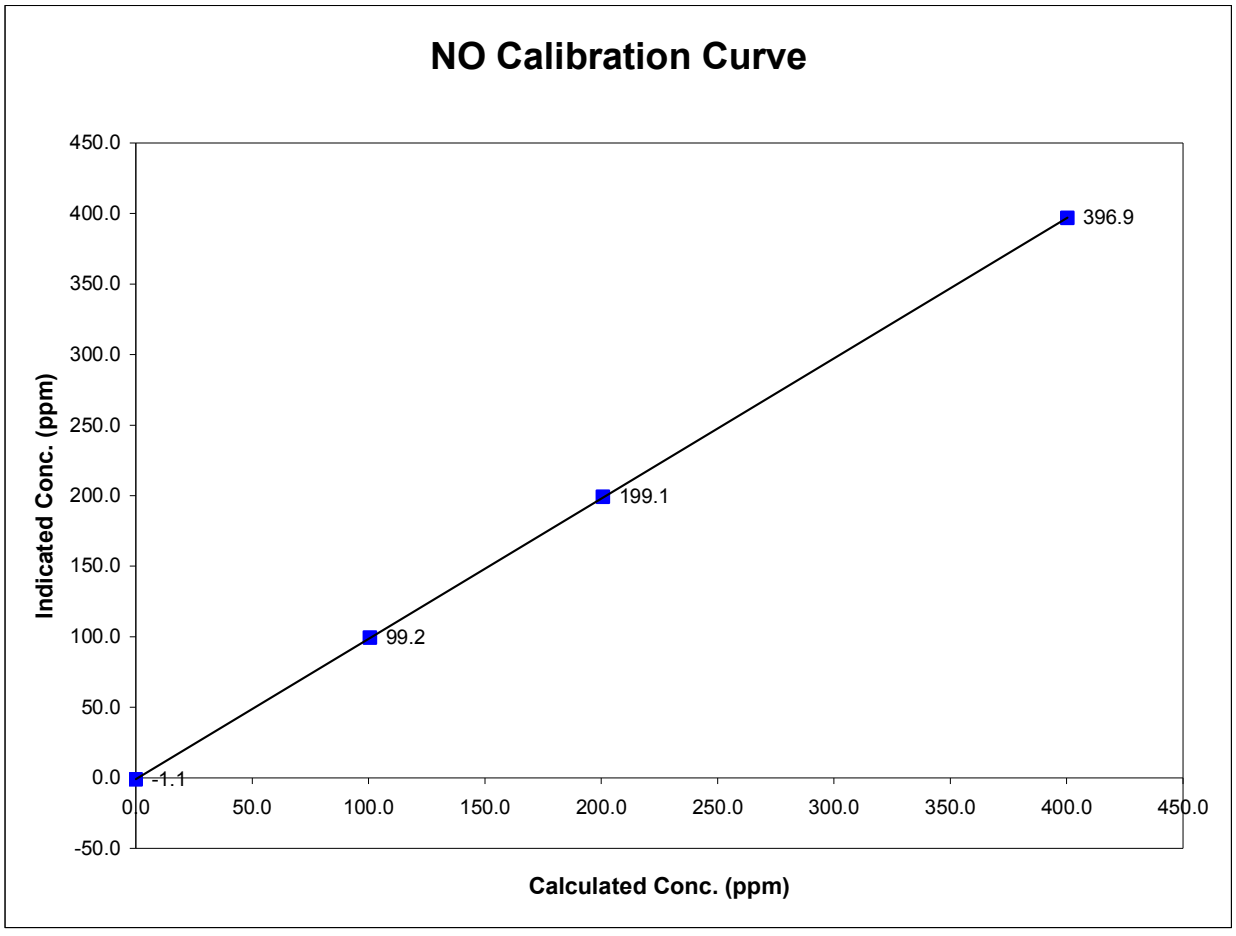
FOCUS AIR QUALITY MONITORING

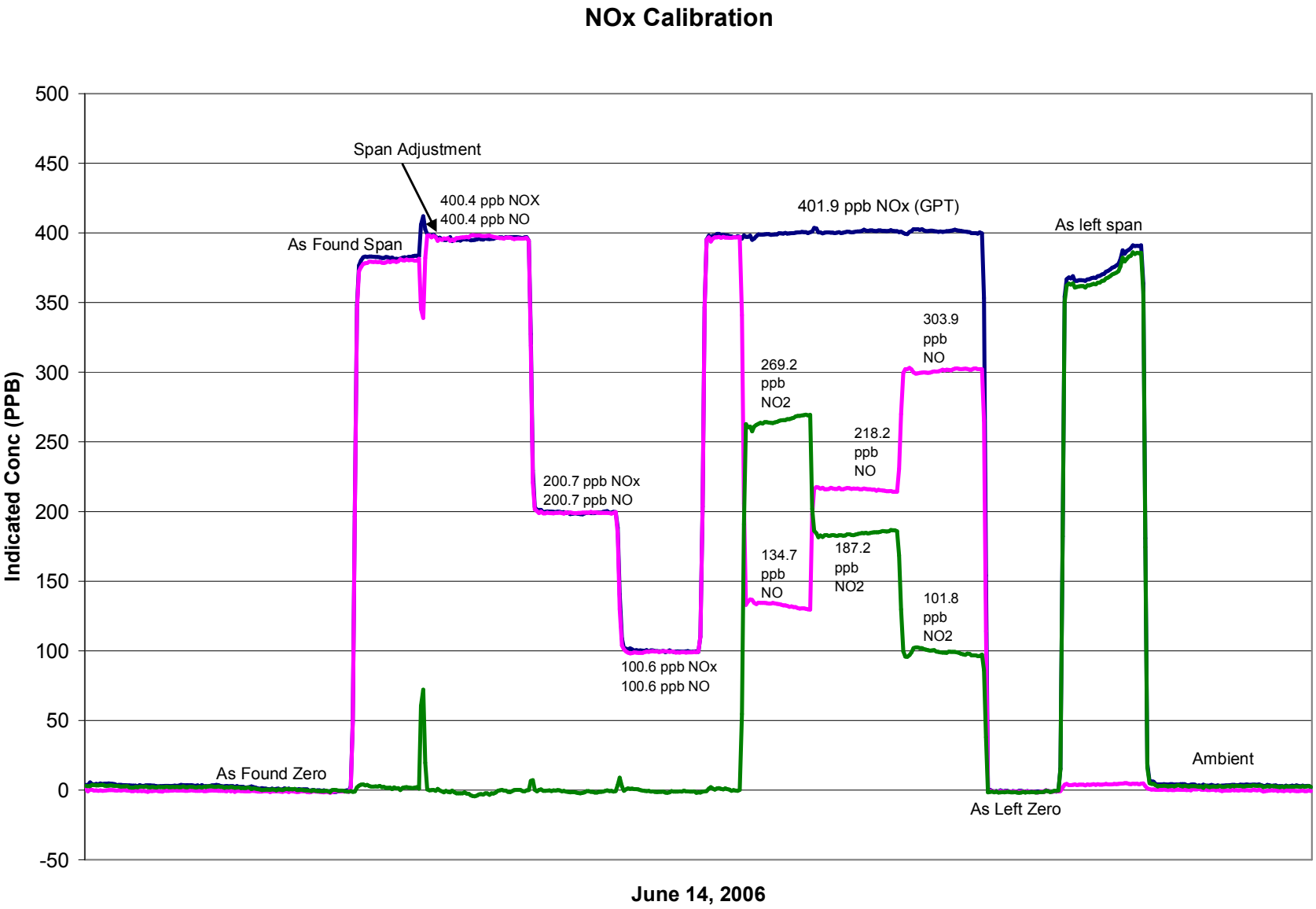
Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:50	End Time (MST)	15:03
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	-1.1	N/A		
400.4	396.9	1.0086	Correlation Coefficient	0.999997
200.7	199.1	1.0083		
100.6	99.2	1.0136	Slope	1.005853
			Intercept	0.866605




NOx Calibration
Indicated Conc (PPB)
500
450
400
350
300
250
200
150
100
50
0
-50
Span Adjustment
400.4 ppb NOX
400.4 ppb NO
As Found Span
401.9 ppb NOx (GPT)
As left span
303.9
ppb
NO
269.2
ppb
NO2
218.2
ppb
NO
200.7 ppb NOx
200.7 ppb NO
134.7
ppb
NO
187.2
ppb
NO2
101.8
ppb
NO2
100.6 ppb NOx
100.6 ppb NO
As Found Zero
Ambient
As Left Zero
June 14, 2006

Calibration Report

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	14:27	End Time (MST)	16:25
Barometric Pressure	27.3 inches Hg	Station Temperature	20.2 Deg C
Calibrator	Environics 6100	Serial Number	3747
Cal Gas Concentration	700 ppm CH_4 / 301 ppm C_3H_8	Cal Gas Expiry Date	8/28/2005
Cal Gas CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.006772	Calculated slope	1.007221
Calculated intercept	0.034868	Calculated intercept	0.101549

Analyzer make: TEI model 51C-LT — Analyzer serial #: 407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.75	PSI
THC span counts	12620	raw	12620	raw
THC zero counts	1557	raw	1557	raw

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)
4991	0.00	0.00	-0.04	N/A
4991	79.77	24.03	23.81	1.0095
4991	39.86	12.11	11.83	1.0235
4991	9.96	3.04	2.91	1.0466
zero	0.00	0.00	-0.04	As Found Zero
4991	79.77	24.03	23.81	As Found Span
			Average Correction Factor	1.0265

Calculated value of As Found Response: 24.047 ppm Percent Change of As Found: -0.1%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.06	ppm
Auto span	23.35	ppm	21.67	ppm

Notes: Screwed up in As Found Span Time.. Gave it too little… did not notice until next day…

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

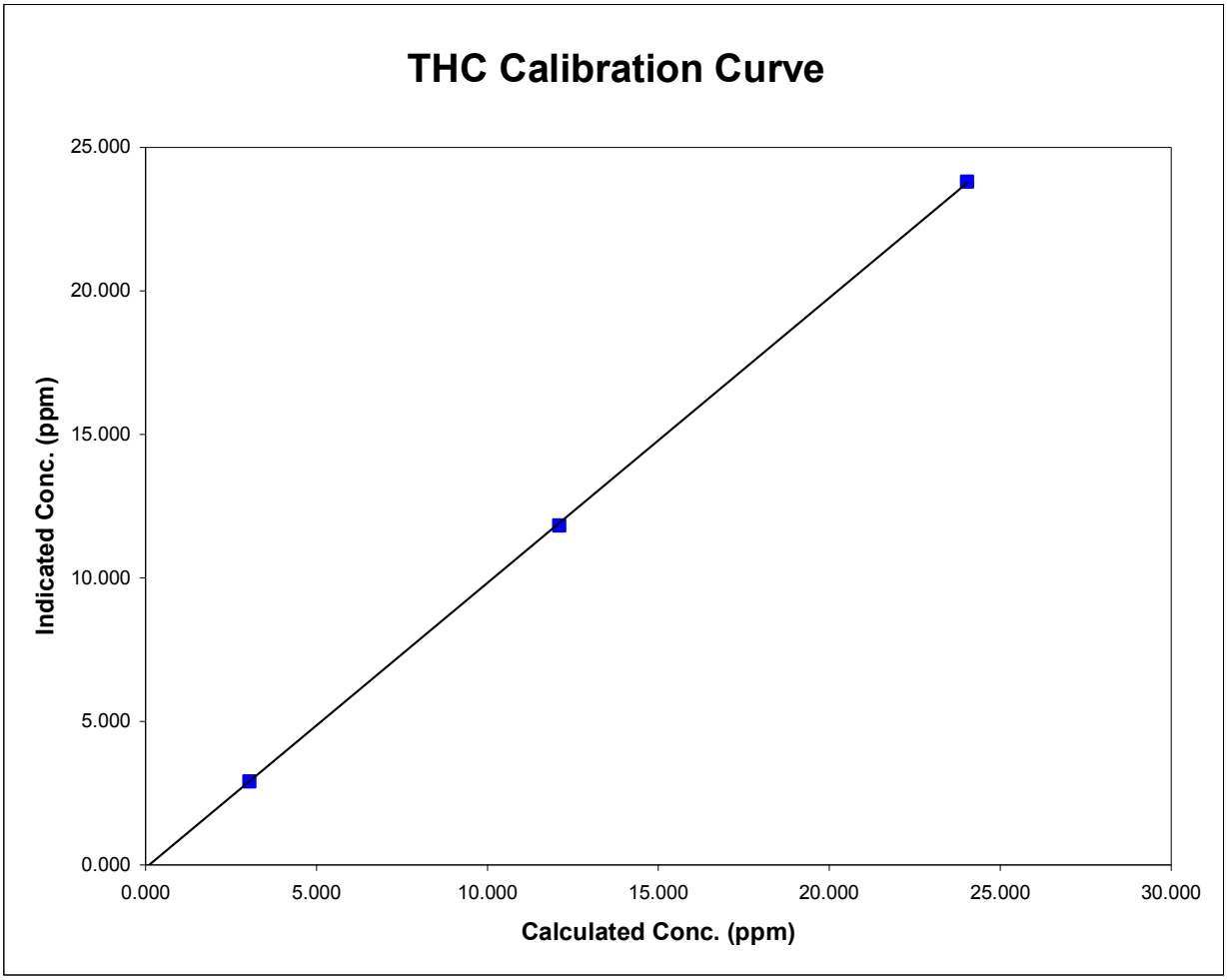
FOCUS AIR QUALITY MONITORING

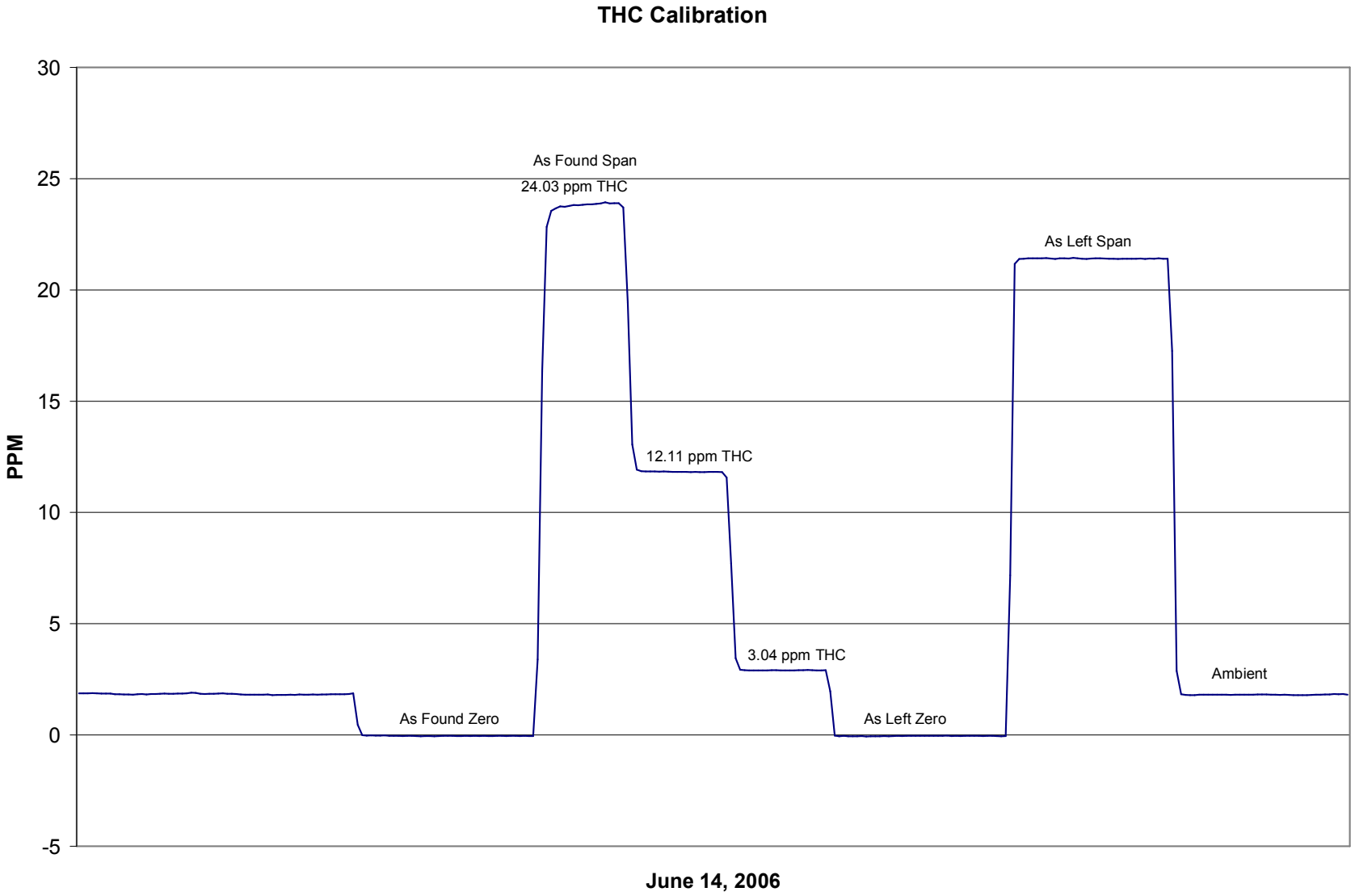
Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:27	End Time (MST)	16:25
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.044	N/A		
24.033	23.807	1.0095	Correlation Coefficient	0.999960
12.105	11.828	1.0235		
3.042	2.907	1.0466	Slope	1.007221
			Intercept	0.101549




THC Calibration
30
25
20
15
10
5
0
-5
PPM
As Found Span
24.03 ppm THC
12.11 ppm THC
3.04 ppm THC
As Found Zero
As Left Zero
As Left Span
Ambient
June 14, 2006

Calibration Report

Parameter **CO**

Air Monitoring Network **Palliser**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	14:25	End Time (MST)	18:45
Barometric Pressure	27.3 in Hg	Station Temperature	20.6 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	Before		After
Calculated slope	0.994919	Calculated slope	0.989096
Calculated intercept	0.025047	Calculated intercept	-0.086934

Analyzer make	TEI Model 48C	Analyzer serial # 436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.052		1.060	
CO bkg setting	9.112		9.568	
Lamp ratio	1.1315		1.1490	
Lamp intensity	200000	Hz	199976	Hz
Sample Flow	0.998	LPM	0.994	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)
4991	0.00	0.00	0.20	N/A
4991	49.81	29.63	30.07	0.9851
4991	19.98	11.95	12.15	0.9838
4991	9.95	5.97	6.00	0.9949
4991	0.00	0.00	0.20	0.0000
4991	49.81	29.63	30.07	0.9851
			Average Correction Factor	0.9879

Calculated value of As Found Response: 29.746 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	0.30	ppm	0.16	ppm
Auto span	20.77	ppm	19.93	ppm

Notes: Span Gas tank replacement and adjustment…

Calibration Performed By: LeninF

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

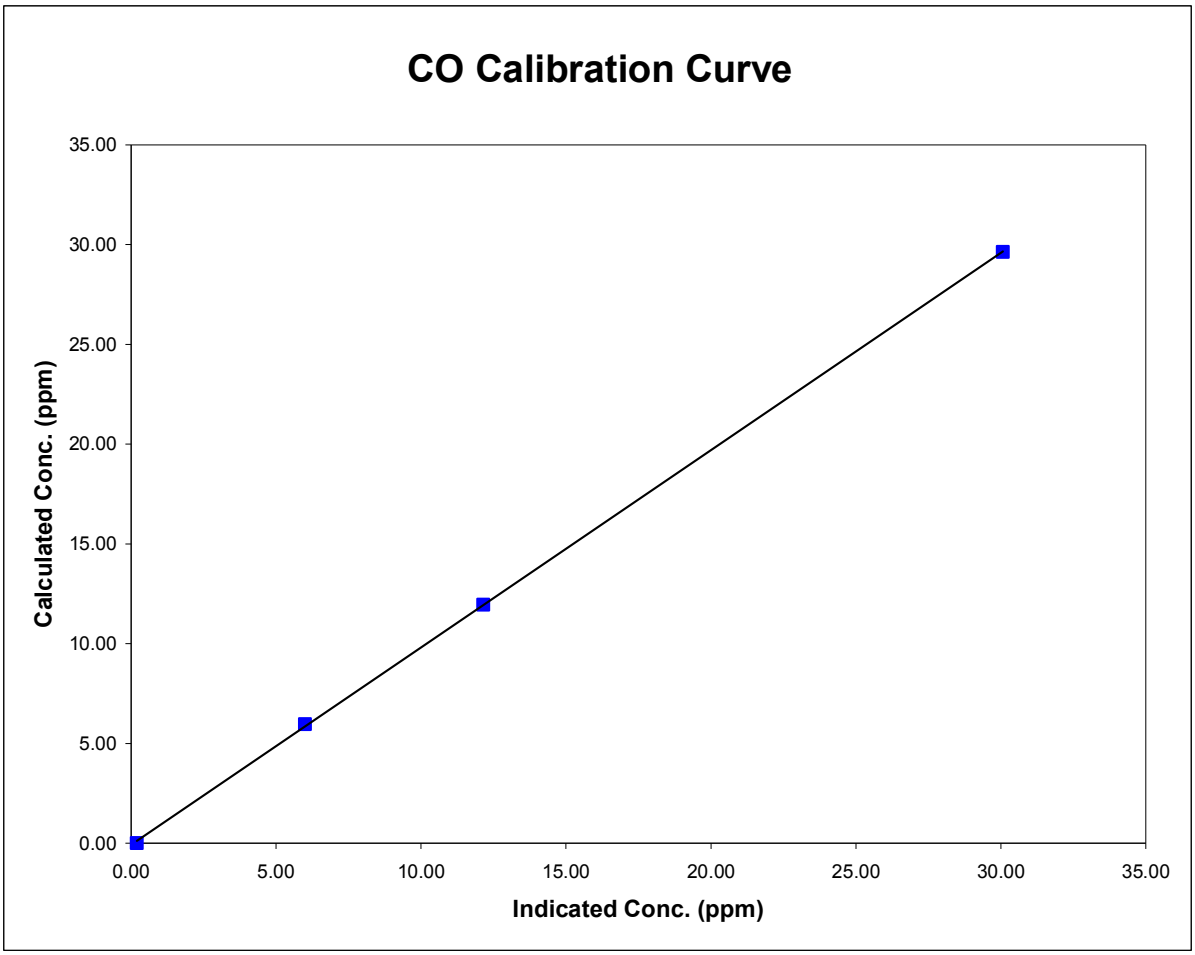
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	June 14, 2006	Previous Calibration	May 18, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:25	End Time (MST)	18:45
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	0.20	N/A		
29.63	30.07	0.9851	Correlation Coefficient	0.999941
11.95	12.15	0.9838		
5.97	6.00	0.9949	Slope	0.989096
			Intercept	-0.086934



CO Calibration