Palliser Airshed Society

Ambient Air Monitoring Network Summary

February 2007

Prepared By:

FOCUS
AIR QUALITY MONITORING

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March 26, 2007

Alberta Environment
Environmental Service Response Centre
#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 – February 2007

Enclosed is the PAS Ambient Monitoring Report for the month of **February 2007**.

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 uptime of all instruments was 90% or greater for the month of February.

- On February 4th the exhaust pump on the NO_X analyzer failed. It was replaced on February 6th. There were forty-nine hours of data invalidated for the NO, NO_2 and NO_X parameters.
- There was a steady decline in the daily spans in the NO_X analyzer following the calibration performed on February 6th. A second calibration was performed February 22nd (due to the steady decline in the span values) and the problem was rectified. It was assumed that build up of perm tube gas in the span system contributed to this instabilty; this did not affect the data during this period.

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

- Monthly average concentrations of NO_2 was 8.5 ppb
- Monthly average concentrations for O_3 was 26.4 ppb
- Monthly average concentrations for CO was 0.2 ppm
- Monthly average concentrations for THC was 2.18 ppm
- Monthly average concentrations for $PM_{2.5}$ was 2.7 µg/m³

The Air Quality Index (AQI) recorded 638 hours of Good readings (100%) for the month of February.

Passive Monitoring – Six Sites throughout the PAS zone:
The following are the ranges for February 2007 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO_2 passives ranged from 0.4 to 0.6 ppb.
- Monthly average concentrations for NO_2 passives ranged from 3.8 ppb to 6.0 ppb.
- Monthly average concentrations for O_3 passives ranged from 29.6 ppb to 35.7 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

Barb Johnson, E.I.T.
AQM Project Coordinator

Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on February 6th (NO_X), February 22nd (NO_X) and February 23rd (THC, CO, O_3 and TEOM). On February 4th the exhaust pump on the NO_X analyzer failed, it was replaced on February 6th; forty-nine hours were invalidated.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational issues observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	Forty-nine hours were invalidated due to the exhaust pump failing. There was a steady decline in the daily spans in the NO_X analyzer following the calibration performed on the 6th to the second calibration on the 22nd (this may have been related to the build up of perm tube gas in the span system). After the second calibration the problem was rectified and the spans were good.
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 two (2) hours of excessive baseline drift flagged. No other operational issues observed.
Wind Speed	Met One	010C	kph	No operational issues 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.

February 2007 Monthly Overall Summary Report
Ambient Air Quality Data

Feb-2007	Palliser Airshed Society						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant	**Objectives**		**Station**	**Monthly**	**Exceedence**		Conc	Day	WSPD	WDIR	Conc	Day	**Operational**
(units)	1-hr	24-hr		**Average**	1-hr	24-hr			(km/hr)	(Sector)			**Time (%)**
NO (**ppb**)			Crescent Heights	3.9	-	-	70.8	Feb-02 23:00	4.5	S	15.3	Feb-14	92.7%
NO_2 (**ppb**)	212	106	Crescent Heights	8.5	0	0	38.7	Feb-04 07:00	3.4	S	23.3	Feb-03	92.7%
NO_X (**ppb**)			Crescent Heights	12.1	-	-	107.0	Feb-02 23:00	4.5	S	35.8	Feb-03	92.7%
O_3 (**ppb**)	82		Crescent Heights	26.4	0	-	45.6	Feb-25 14:00	12.7	ENE	38.2	Feb-25	100.0%
O_3 (**ppb**) - **8-hr**	65		Crescent Heights		0						43.3	Feb-25	
CO (**ppm**)	13		Crescent Heights	0.20	0	-	0.8	Feb-14 08:00	3.7	ESE	0.3	Feb-14	100.0%
CO (**ppm**) - **8-hr**	5		Crescent Heights		0						0.5	Feb-14	
THC (**ppm**)			Crescent Heights	2.18	-	-	3.0	Feb-23 23:00	5.0	S	2.4	Feb-03	100.0%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Crescent Heights	2.7		0	17.3	Feb-23 23:00	5.0	S	5.7	Feb-23	99.7%
RH (**%**)			Crescent Heights	67.9	-	-	-	-	-	-	-	-	100.0%
SR (**W/m^2**)			Crescent Heights	85.2	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Crescent Heights	-8.0	-	-	-	-	-	-	-	-	100.0%
WSPD v (**km/hr**)			Crescent Heights	0.6	-	-	39.1	Feb-17 00:00	39.1	SW	20.5	Feb-18	100.0%
WSPD s (**km/hr**)			Crescent Heights	11.3	-	-	39.3	Feb-17 00:00	39.3	SW	22.8	Feb-18	100.0%
WDIR			Crescent Heights	N	-	-	-	-	-	-	-	-	100.0%

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

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: February 1, 2007 to March 1, 2007

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:	638
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Feb-07	17	19	19	18	18	17	16	13	14	15	16	N	17	17	17	16	15	11	12	14	14	14	13	11
2-Feb-07	13	12	9	9	8	9	10	13	13	16	N	17	18	18	18	17	14	12	7	7	8	8	9	9
3-Feb-07	8	8	7	7	7	6	6	6	5	N	5	11	16	16	16	16	14	11	7	8	9	8	8	8
4-Feb-07	6	6	7	8	6	7	8	9	N	6	15	16	14	14	14	11	13	11	11	10	10	6	6	8
5-Feb-07	8	7	7	7	6	4	5	N	5	8	8	10	12	13	9	7	7	3	5	5	3	5	7	6
6-Feb-07	9	10	10	11	11	12	N	13	13	13	13	14	14	14	14	14	14	13	13	13	13	14	14	14
7-Feb-07	14	14	N	13	13	13	13	13	12	12	13	13	13	14	14	15	16	15	15	14	14	15	15	15
8-Feb-07	14	N	13	14	14	13	12	13	13	14	14	15	15	15	14	15	15	14	13	14	14	15	14	15
9-Feb-07	N	14	15	14	14	13	13	13	13	14	15	16	16	16	16	16	16	16	15	15	13	13	13	N
10-Feb-07	13	13	12	12	8	6	8	8	8	10	12	14	15	16	18	18	16	14	15	15	8	11	N	11
11-Feb-07	7	13	13	10	9	9	11	13	14	15	18	18	19	19	18	18	19	18	18	17	17	N	16	17
12-Feb-07	16	17	17	17	17	17	16	15	15	16	17	18	18	18	18	18	18	17	17	16	N	16	15	14
13-Feb-07	15	14	14	13	13	13	13	13	14	15	15	15	16	16	17	16	16	15	14	N	7	7	7	8
14-Feb-07	7	7	8	7	7	5	6	8	10	14	12	14	16	17	16	14	11	16	N	20	20	20	21	20
15-Feb-07	19	20	19	19	19	17	17	16	17	17	17	18	19	19	N	18	17	N	18	17	16	16	15	14
16-Feb-07	12	12	10	7	11	9	5	6	9	13	14	14	15	16	17	15	N	11	13	11	11	16	15	13
17-Feb-07	14	16	15	14	15	15	15	15	16	16	18	18	17	18	19	N	17	15	15	17	18	17	17	20
18-Feb-07	21	20	20	20	20	21	21	20	20	20	19	19	19	17	N	19	18	18	18	18	17	14	12	14
19-Feb-07	12	12	16	16	15	16	13	11	14	15	16	19	18	N	18	21	19	17	15	16	18	18	18	17
20-Feb-07	17	16	15	16	15	14	12	12	15	15	17	18	N	18	18	18	19	18	12	17	17	10	8	7
21-Feb-07	9	11	10	9	6	5	5	4	7	12	16	N	18	19	21	21	19	16	13	11	12	13	13	12
22-Feb-07	11	10	5	5	6	5	4	4	4	8	N	15	16	15	16	17	16	16	16	16	15	14	13	13
23-Feb-07	10	10	N	8	7	6	5	6	9	14	N	N	N	8	16	16	16	15	11	9	7	8	8	14
24-Feb-07	9	9	N	6	6	6	7	7	7	8	9	17	19	19	20	20	19	17	15	16	13	14	16	17
25-Feb-07	14	N	18	14	18	18	17	18	17	17	19	20	22	22	23	23	21	21	21	19	19	19	20	19
26-Feb-07	N	18	18	18	16	16	16	15	16	16	17	18	19	19	20	20	20	19	18	17	16	16	15	N
27-Feb-07	14	11	9	11	11	10	9	5	7	12	12	12	13	13	13	13	15	16	17	15	14	14	N	12
28-Feb-07	12	12	11	11	12	13	11	11	11	13	13	14	15	15	15	16	16	16	18	18	16	N	16	17

PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

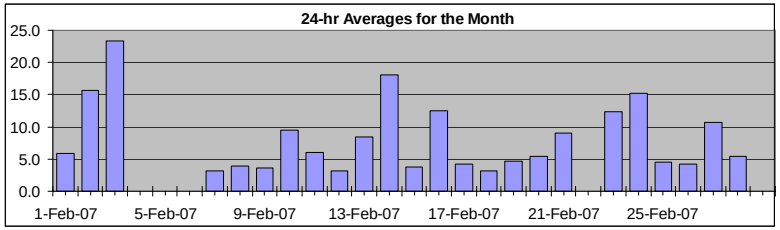
Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: February 1, 2007 to March 1, 2007

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:	38.7	ppb	4-Feb	7:00 8:00
Maximum 24-hr Average:	23.3	ppb	3-Feb	

AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	34.5	28.9	9.8	5.4	3.1	1.3	0.8	8.5 ppb	5.4 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-Feb-07	2	1	1	3	2	3	4	9	8	6	5	A	5	4	5	5	6	14	12	7	7	7	8	12	5.9	14.3
2-Feb-07	7	8	16	15	17	17	18	10	11	6	A	6	3	3	4	5	9	13	24	30	32	34	37	36	15.7	36.6
3-Feb-07	33	32	31	30	28	26	27	23	22	A	19	14	6	6	7	7	10	16	30	35	36	32	33	32	23.3	35.9
4-Feb-07	26	22	29	33	25	30	33	39	A	26	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	38.7
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	6	4	5	4	4	3	2	2	2	N	6.5
7-Feb-07	2	2	A	7	4	5	4	4	5	3	3	3	3	2	4	3	3	3	3	4	3	2	2	3	3.2	6.5
8-Feb-07	3	A	6	4	3	4	6	6	5	4	3	2	2	3	4	4	3	4	5	4	4	3	4	2	3.9	6.2
9-Feb-07	A	6	3	4	3	5	4	5	6	3	1	1	1	1	1	1	3	3	3	4	7	6	7	A	3.6	7.1
10-Feb-07	9	6	9	8	16	19	17	16	15	12	8	5	4	3	2	3	4	8	5	5	19	13	A	13	9.5	19.5
11-Feb-07	22	10	8	13	15	14	9	7	5	4	2	1	2	2	2	3	2	3	3	3	3	A	5	3	6.1	21.6
12-Feb-07	3	2	3	3	3	2	4	5	6	3	2	1	1	1	1	1	2	3	4	5	A	6	6	7	3.2	6.5
13-Feb-07	5	6	6	6	6	7	8	7	6	4	3	4	3	3	3	5	5	5	7	A	25	29	22	20	8.4	29.2
14-Feb-07	31	29	35	29	27	21	27	34	30	31	26	12	9	6	7	14	21	12	A	4	2	2	1	2	18.1	35.4
15-Feb-07	4	2	2	2	2	5	4	6	5	4	4	3	2	4	5	5	6	A	7	3	4	2	3	4	3.8	7.0
16-Feb-07	10	9	12	19	10	16	23	27	20	11	10	9	7	7	5	9	A	19	12	17	14	6	9	8	12.6	27.3
17-Feb-07	4	2	2	5	3	3	4	6	4	4	2	2	3	4	3	A	8	8	7	4	3	5	6	2	4.1	8.4
18-Feb-07	1	1	2	2	1	0	1	1	3	1	1	1	4	6	A	5	6	5	4	2	2	9	10	6	3.2	10.5
19-Feb-07	9	8	5	7	7	5	6	7	3	2	3	2	4	A	7	3	4	6	7	6	2	2	1	1	4.7	8.8
20-Feb-07	1	1	3	2	1	2	8	7	2	2	2	1	A	4	3	4	4	6	15	6	4	12	16	17	5.4	17.0
21-Feb-07	15	10	12	13	16	19	19	18	13	8	4	A	6	5	1	1	3	7	9	11	5	4	4	4	9.0	19.1
22-Feb-07	6	7	20	19	23	19	18	18	13	8	A	5	3	3	2	C	C	C	C	C	A	4	4	3	N	23.1
23-Feb-07	7	7	A	9	9	12	15	13	8	5	4	4	3	5	6	8	7	9	15	26	29	21	29	33	12.4	33.3
24-Feb-07	28	28	A	24	24	24	29	29	20	18	19	7	2	3	3	3	4	9	13	13	17	14	11	8	15.2	29.2
25-Feb-07	13	A	9	14	7	8	7	5	8	8	3	2	1	1	1	1	1	1	3	3	3	3	2	2	4.6	13.7
26-Feb-07	A	4	3	3	5	4	5	6	6	4	4	3	2	2	2	2	2	4	5	6	7	6	7	A	4.3	7.4
27-Feb-07	11	13	16	13	10	12	13	23	19	9	11	10	8	8	9	10	7	7	4	7	8	6	A	9	10.7	22.6
28-Feb-07	8	8	9	9	7	6	8	9	10	6	6	4	3	3	3	4	4	4	2	2	3	A	4	3	5.5	9.5
Hourly Avg	10.9	9.3	10.5	11.3	10.6	11.1	12.3	13.1	10.1	7.7	6.2	4.4	3.7	3.7	3.8	4.6	5.3	7.2	8.5	8.9	10.2	9.7	9.8	9.7		
Hourly Max	32.9	32.4	35.4	33.2	27.7	29.9	33.4	38.7	30.5	30.7	26.0	13.7	8.7	7.8	8.6	13.8	21.3	19.3	30.0	35.3	35.9	34.3	36.6	36.3		

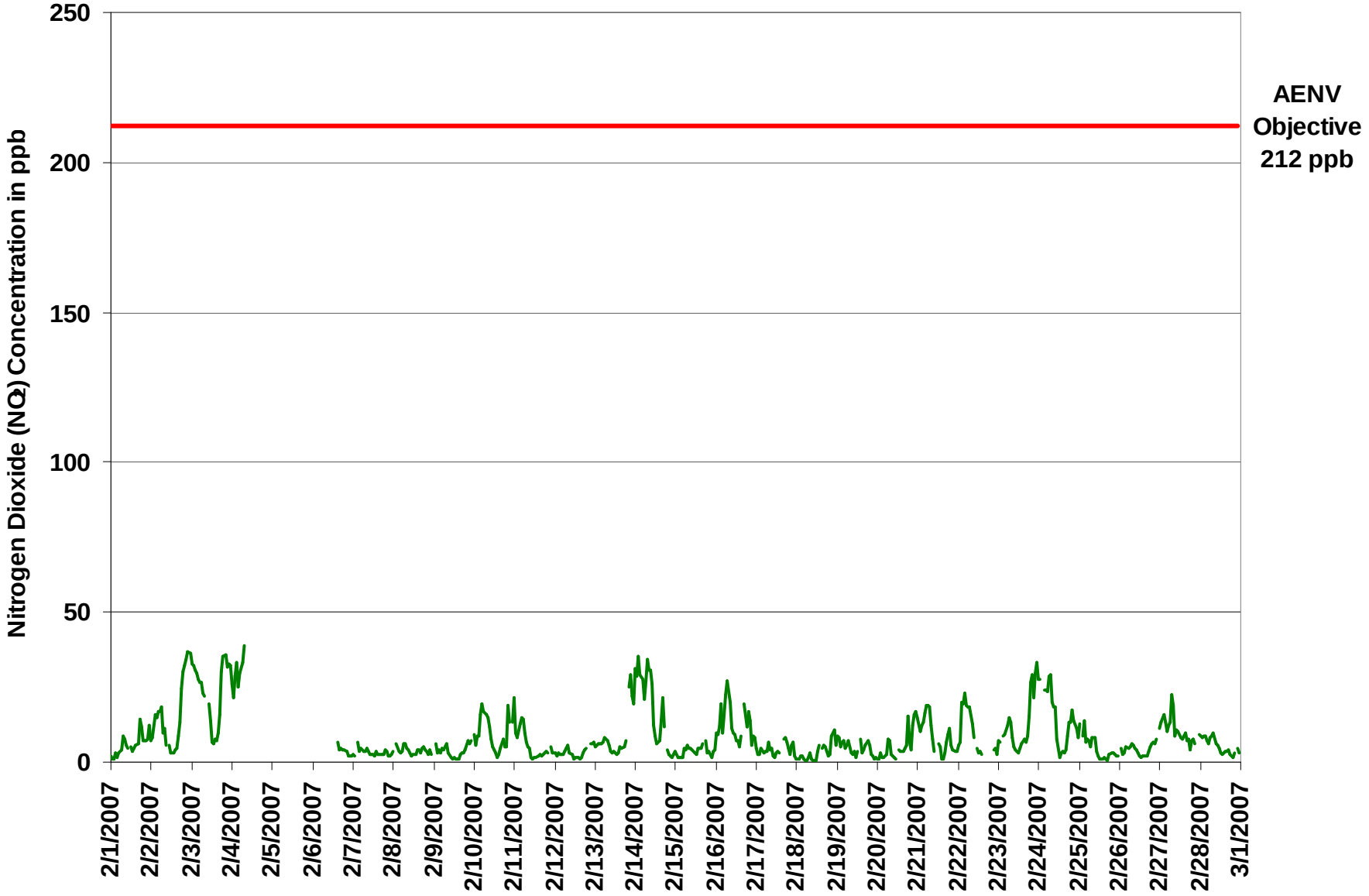


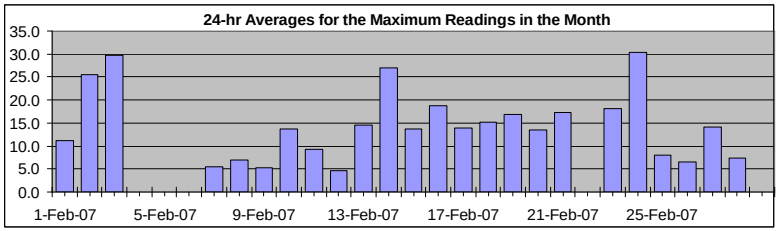
Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	77.3	ppb	14-Feb	0:00 1:00
Maximum 24-hr Value:	30.5	ppb	24-Feb	

AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	54.8	39.3	21.0	10.1	5.2	2.8	1.9	14.8 ppb	10.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-07	4	2	2	6	3	5	7	15	12	7	6	A	8	6	8	9	10	17	16	10	39	28	10	24	11.1	38.6
2-Feb-07	13	11	54	25	24	26	27	13	16	15	A	9	7	6	12	8	26	20	37	38	39	61	47	51	25.5	60.7
3-Feb-07	48	35	33	32	36	34	29	25	25	A	24	45	11	10	13	11	14	29	40	38	40	41	38	34	29.7	47.9
4-Feb-07	34	28	47	39	29	32	40	58	A	38	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	57.6
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	10	7	8	6	6	6	4	3	3	N	9.9
7-Feb-07	5	3	A	13	6	8	6	8	7	5	4	4	4	4	9	5	4	5	5	6	5	3	4	4	5.4	12.5
8-Feb-07	6	A	9	5	4	6	10	8	7	6	18	3	3	4	19	7	4	5	8	7	8	4	5	3	7.0	18.6
9-Feb-07	A	9	4	5	4	6	7	8	8	4	3	2	3	3	3	3	5	4	4	6	10	8	10	A	5.4	10.2
10-Feb-07	13	11	12	12	19	22	21	20	20	16	11	6	5	4	3	5	8	11	7	8	34	27	A	19	13.6	34.3
11-Feb-07	32	19	11	32	17	18	13	9	6	7	3	3	4	2	3	3	3	4	4	5	5	A	7	4	9.3	32.2
12-Feb-07	4	3	4	3	3	3	5	7	8	4	4	2	3	3	2	2	2	5	6	6	A	8	10	9	4.6	10.1
13-Feb-07	6	7	7	8	9	10	38	22	7	4	4	5	4	4	15	10	6	6	14	A	57	35	27	28	14.5	57.0
14-Feb-07	77	33	42	37	37	25	37	37	38	38	30	18	11	9	17	17	33	41	A	7	3	11	2	21	27.0	77.3
15-Feb-07	33	2	8	3	3	35	20	8	8	7	5	6	9	13	20	15	41	A	25	6	16	5	15	15	13.7	41.2
16-Feb-07	18	12	19	28	11	22	28	30	27	16	13	16	10	10	7	12	A	29	19	23	25	11	15	28	18.7	30.2
17-Feb-07	8	5	4	6	4	5	5	24	5	18	3	4	7	28	6	A	10	41	22	26	4	30	42	15	13.9	42.2
18-Feb-07	13	29	21	31	2	1	17	22	29	5	2	3	28	22	A	12	19	15	15	3	9	18	20	10	15.1	31.4
19-Feb-07	18	17	7	12	22	7	25	28	5	5	25	3	12	A	12	4	6	8	63	58	13	25	2	11	16.9	62.6
20-Feb-07	3	2	18	3	3	7	32	11	4	3	3	2	A	16	16	18	16	14	37	35	9	20	20	20	13.5	37.2
21-Feb-07	31	12	15	18	20	22	32	24	16	21	8	A	9	8	3	4	39	11	46	27	8	7	9	5	17.2	46.3
22-Feb-07	25	27	28	27	35	29	23	21	17	11	A	7	5	7	3	C	C	C	C	C	A	7	7	7	N	35.2
23-Feb-07	12	10	A	15	11	16	20	22	13	13	6	5	4	12	9	10	11	26	20	36	39	29	33	49	18.2	49.1
24-Feb-07	37	52	A	28	49	29	32	43	27	21	40	27	3	47	54	33	21	33	24	19	23	22	18	19	30.5	53.5
25-Feb-07	18	A	19	19	10	15	10	9	17	15	6	4	2	5	2	4	3	3	4	4	4	4	3	3	8.0	19.5
26-Feb-07	A	7	5	4	7	6	7	8	8	6	5	22	3	3	4	4	3	5	6	8	8	8	9	A	6.6	21.5
27-Feb-07	16	17	19	20	13	14	16	27	26	10	13	15	11	11	19	11	10	10	6	10	10	8	A	11	14.1	26.7
28-Feb-07	11	11	11	10	9	8	9	12	14	7	8	5	4	4	4	6	6	6	5	4	6	A	6	4	7.4	13.7
Hourly Avg	20.1	15.2	17.4	17.1	15.1	15.7	19.9	19.9	14.7	12.1	10.6	9.3	7.0	9.9	10.9	9.3	12.8	14.9	18.3	16.5	17.5	17.7	15.1	16.5		
Hourly Max	77.3	52.2	54.4	39.4	48.9	35.4	40.0	57.6	37.6	38.3	39.6	44.7	28.2	46.6	53.5	33.1	41.2	40.7	62.6	57.7	57.0	60.7	47.3	50.9		

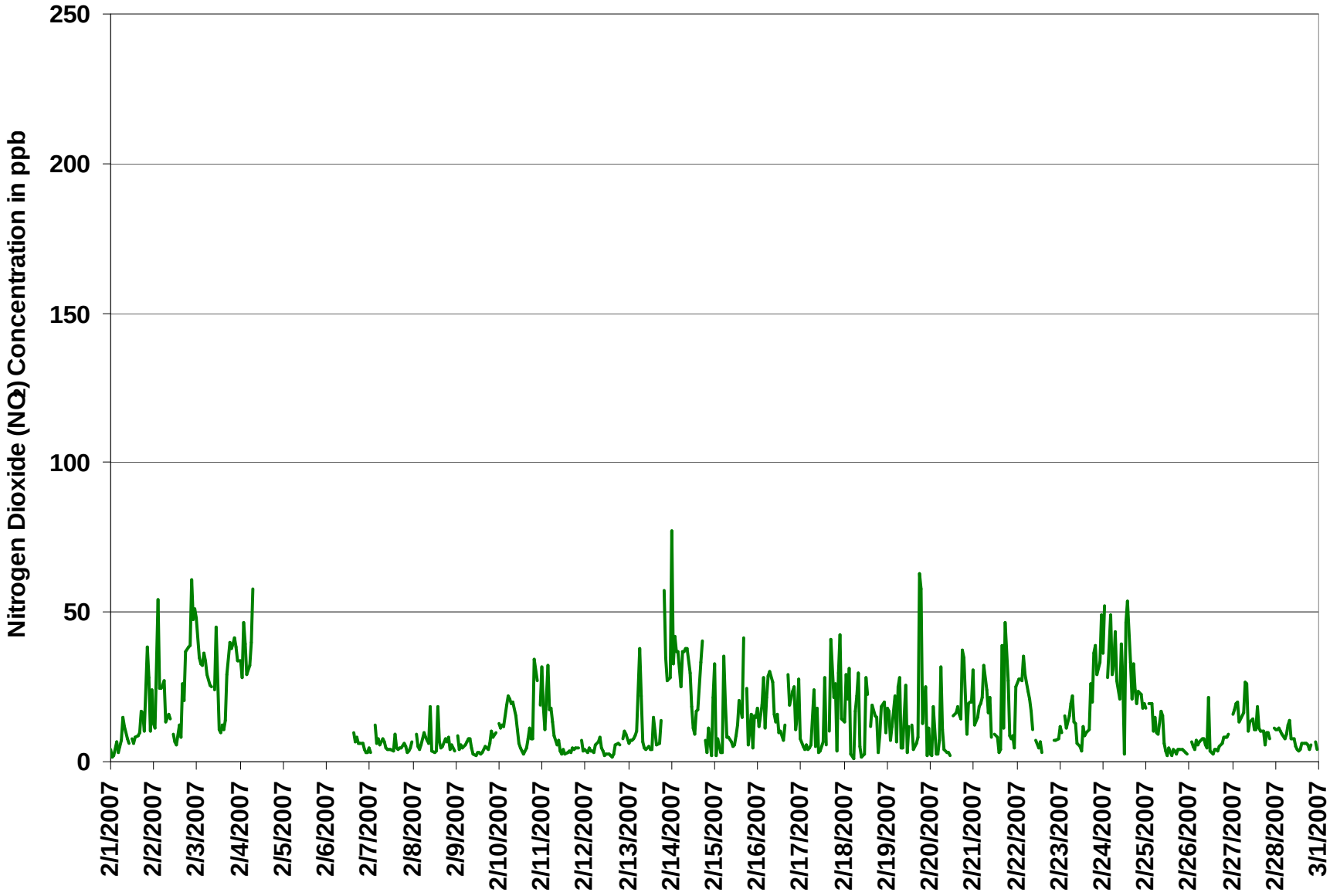
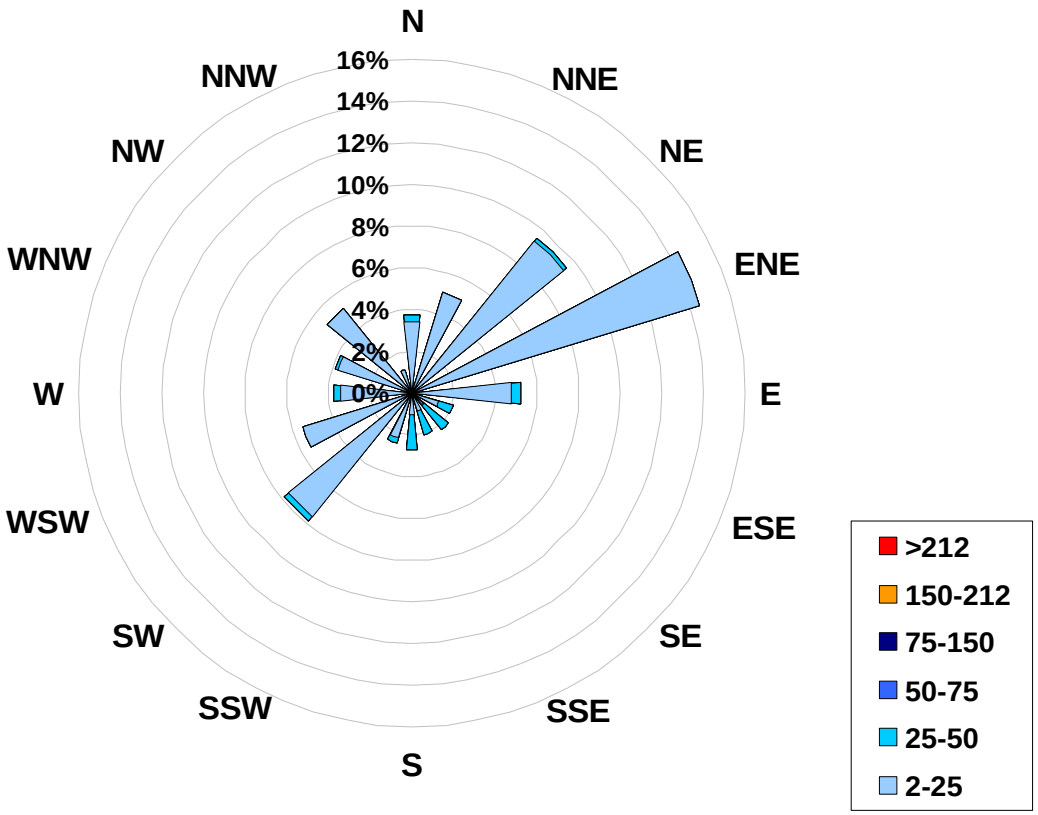


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for February 2007



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	563
25	to	50	17
50	to	75	5
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			585

PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

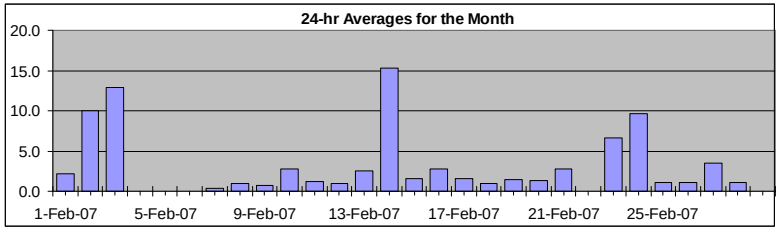
Nitric Oxide (NO)

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Maximum 1-hr Average:	70.8	ppb	2-Feb	23:00 0:00
Maximum 24-hr Average:	15.3	ppb	14-Feb	



AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	43.2	17.4	3.2	1.4	0.6	0.0	0.0	3.9 ppb	1.4 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**

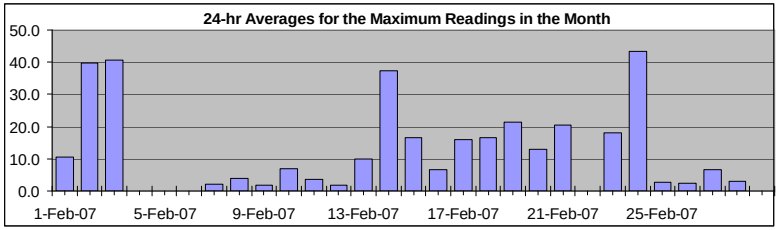
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-07	1	0	1	1	1	2	2	2	3	3	3	A	3	3	4	3	2	3	2	1	3	4	1	2	2.2	3.8
2-Feb-07	1	1	6	2	2	2	3	1	3	2	A	3	2	2	3	3	4	3	6	14	12	35	51	71	10.0	70.8
3-Feb-07	29	20	11	8	6	7	8	4	17	A	30	27	4	4	5	3	3	2	10	14	25	26	22	10	12.8	29.8
4-Feb-07	3	1	38	17	2	12	28	66	A	25	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	66.4
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	0	0	0	0	0	0	0	0	0	N	0.0
7-Feb-07	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.3
8-Feb-07	0	A	0	0	0	0	0	1	2	1	2	1	2	2	4	2	1	0	1	0	1	0	0	0	0.9	3.7
9-Feb-07	A	0	0	0	0	0	0	1	2	1	1	1	2	1	1	1	1	0	0	1	1	0	0	A	0.7	2.1
10-Feb-07	0	0	1	2	3	1	2	5	8	9	9	5	4	3	1	2	2	1	0	0	2	1	A	1	2.8	9.2
11-Feb-07	5	1	1	1	4	2	1	1	1	2	1	1	1	1	1	1	1	0	0	1	1	A	1	0	1.3	4.7
12-Feb-07	0	0	1	1	0	1	1	1	3	2	2	1	2	1	1	1	1	1	1	1	A	1	1	1	1.0	2.5
13-Feb-07	0	0	0	0	0	1	3	3	2	2	3	4	4	3	3	4	2	1	1	A	7	8	4	1	2.5	8.3
14-Feb-07	21	3	30	12	10	5	12	26	42	66	49	17	10	6	7	12	14	4	A	1	0	1	0	1	15.3	66.1
15-Feb-07	2	0	0	0	0	4	1	1	2	2	3	3	2	3	3	1	3	A	1	1	1	0	1	1	1.6	4.3
16-Feb-07	1	0	1	2	0	1	3	6	4	4	6	7	5	5	3	3	A	2	1	2	2	1	1	2	2.8	7.1
17-Feb-07	0	0	0	1	0	0	0	3	1	3	2	2	2	3	1	A	1	3	1	1	0	2	6	0	1.6	5.8
18-Feb-07	1	2	1	1	0	0	0	0	2	0	1	1	4	2	A	1	1	1	1	0	0	1	1	0	1.0	4.5
19-Feb-07	1	1	0	0	1	0	4	5	1	1	2	1	3	A	3	1	1	1	2	4	0	1	0	1	1.5	5.5
20-Feb-07	0	0	1	0	0	0	3	1	1	1	1	1	A	3	2	2	2	1	3	3	1	2	1	2	1.3	3.3
21-Feb-07	4	1	2	1	2	2	5	7	8	6	2	A	3	3	1	1	3	1	6	5	1	1	0	0	2.8	7.8
22-Feb-07	3	1	11	8	15	14	18	18	12	8	A	2	1	1	1	C	C	C	C	C	A	0	0	0	N	18.3
23-Feb-07	1	1	A	2	1	2	4	3	3	3	2	2	2	3	4	4	3	3	2	7	14	5	18	63	6.6	62.6
24-Feb-07	29	20	A	5	9	3	10	28	21	26	37	9	2	4	5	2	2	3	2	2	1	1	1	1	9.6	36.7
25-Feb-07	2	A	1	1	0	1	0	1	3	4	3	2	1	1	1	1	1	0	0	0	0	0	0	0	1.1	4.3
26-Feb-07	A	1	1	0	0	0	0	1	2	3	3	3	2	1	1	1	1	0	0	0	0	0	1	A	1.1	3.3
27-Feb-07	0	1	1	1	1	1	3	9	11	6	10	10	7	6	5	4	2	1	0	1	1	1	A	1	3.6	10.5
28-Feb-07	1	1	1	1	1	0	1	1	3	2	2	2	1	1	1	1	1	0	0	0	0	A	1	0	1.1	3.5
Hourly Avg	4.5	2.3	4.7	2.7	2.3	2.4	4.4	7.5	6.3	7.4	7.6	4.6	3.0	2.7	2.6	2.3	2.1	1.3	1.7	2.4	3.2	3.8	4.6	6.6		
Hourly Max	29.3	20.0	38.1	16.9	15.3	13.6	28.1	66.4	42.1	66.1	49.2	26.6	10.4	6.4	6.8	11.7	14.1	3.9	10.1	14.3	25.2	34.5	51.3	70.8		

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	214.2	ppb	2-Feb	21:00 22:00
Maximum 24-hr Value:	43.5	ppb	24-Feb	

AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	150.9	72.1	14.1	3.3	1.8	0.9	0.6	15.2 ppb	3.3 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-07	2	1	1	2	2	4	4	10	5	4	5	A	6	5	6	7	3	5	3	2	86	59	2	17	10.5	85.8
2-Feb-07	2	3	135	15	3	3	5	2	5	4	A	5	5	5	10	7	25	8	40	70	30	214	110	211	39.9	214.2
3-Feb-07	127	28	17	13	36	28	15	8	31	A	42	166	7	7	10	7	5	28	34	30	42	110	124	16	40.5	166.1
4-Feb-07	14	3	151	49	6	49	64	121	A	94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	150.5
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	1	1	0	1	1	0	0	0	0	N	1.5
7-Feb-07	1	1	A	2	1	1	1	3	3	2	2	2	3	2	8	2	2	1	1	2	1	1	1	2	2.0	8.3
8-Feb-07	1	A	1	1	1	1	1	2	3	3	12	3	2	3	33	5	2	1	2	2	5	1	1	1	3.9	33.0
9-Feb-07	A	1	1	1	2	1	1	2	4	3	2	2	3	4	2	2	2	2	1	2	2	1	1	A	1.9	4.0
10-Feb-07	1	1	5	5	5	4	4	18	14	26	21	6	5	4	3	4	3	4	1	1	18	5	A	2	7.0	25.7
11-Feb-07	33	4	1	6	6	3	4	2	2	3	2	2	3	2	3	2	2	1	1	1	1	A	2	1	3.7	32.9
12-Feb-07	1	1	1	1	1	1	1	3	5	3	3	2	3	2	2	2	2	2	2	1	A	1	1	1	1.9	5.0
13-Feb-07	1	1	1	1	1	3	23	49	4	3	5	5	5	6	24	19	4	1	17	A	28	12	14	3	10.0	49.2
14-Feb-07	184	7	64	36	46	13	33	33	58	90	57	29	15	10	18	18	35	32	A	6	1	37	1	35	37.2	184.2
15-Feb-07	66	0	7	1	1	95	28	2	4	4	4	5	11	9	23	13	47	A	12	3	33	1	6	4	16.5	95.3
16-Feb-07	4	2	2	6	2	2	6	9	10	8	8	14	8	11	5	5	A	4	3	3	9	2	2	27	6.6	26.6
17-Feb-07	1	2	1	2	1	1	2	33	2	22	3	3	6	49	3	A	3	61	13	40	1	32	73	11	15.9	73.0
18-Feb-07	26	72	25	68	1	1	18	14	57	5	1	2	56	11	A	2	3	3	3	1	1	3	3	1	16.4	72.3
19-Feb-07	1	2	1	1	15	1	88	78	3	9	45	2	10	A	7	2	2	2	89	71	9	23	1	30	21.4	89.1
20-Feb-07	1	1	17	1	1	2	68	2	2	2	2	2	A	57	19	21	15	2	23	43	2	4	2	6	12.9	67.6
21-Feb-07	31	2	3	2	4	3	43	13	76	56	12	A	6	5	2	2	61	3	93	44	2	2	2	1	20.4	92.7
22-Feb-07	40	37	25	61	61	38	58	24	17	11	A	3	2	12	2	C	C	C	C	C	A	2	1	1	N	61.4
23-Feb-07	3	2	A	6	3	5	17	6	16	16	4	3	3	9	8	6	5	21	14	19	67	10	43	135	18.2	134.9
24-Feb-07	90	189	A	11	81	11	20	76	41	30	153	34	2	82	73	26	30	32	4	4	3	2	2	6	43.5	188.6
25-Feb-07	4	A	2	2	2	6	1	1	9	8	5	4	3	2	2	2	3	1	2	1	1	1	1	1	2.8	8.5
26-Feb-07	A	2	2	1	2	1	1	3	4	5	5	6	3	3	3	2	1	1	1	1	1	1	2	A	2.3	6.4
27-Feb-07	1	2	2	3	2	3	5	18	18	11	11	16	10	9	24	6	5	2	1	1	1	2	A	3	6.7	23.8
28-Feb-07	2	2	2	1	1	1	1	3	24	2	3	2	2	2	2	3	3	2	2	2	2	A	3	1	3.1	23.5
Hourly Avg	26.6	15.2	20.3	11.5	11.0	10.9	19.7	20.6	16.6	16.9	17.7	13.9	7.5	12.9	12.1	6.9	10.9	9.2	15.1	14.6	14.5	22.0	16.6	21.6		
Hourly Max	184.2	188.6	150.5	68.1	80.8	95.3	88.1	121.5	75.6	93.7	152.7	166.1	56.0	82.0	72.5	26.4	61.1	61.4	92.7	71.4	85.8	214.2	124.4	211.3		

PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

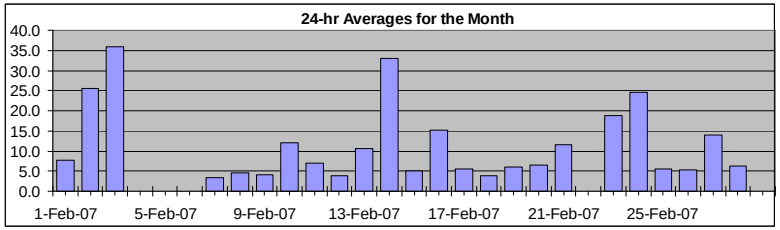
Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Maximum 1-hr Average:	107.0	ppb	2-Feb	23:00 0:00
Maximum 24-hr Average:	35.8	ppb	3-Feb	



AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	72.7	43.8	13.6	6.6	3.7	1.7	0.9	12.1 ppb	6.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-07	2	1	1	3	2	5	6	11	10	8	8	A	8	6	8	8	8	17	13	8	10	11	8	14	7.6	17.2
2-Feb-07	8	9	22	17	18	19	21	11	14	8	A	8	5	5	6	7	13	16	30	44	44	69	88	107	25.5	107.0
3-Feb-07	62	52	42	37	33	33	34	27	39	A	49	40	10	10	12	10	12	18	40	49	61	58	55	41	35.8	62.0
4-Feb-07	29	23	66	50	27	42	61	105	A	51	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	105.0
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	6	3	3	3	3	2	0	0	1	N	5.5
7-Feb-07	2	2	A	6	4	4	3	4	6	4	3	4	3	3	5	3	3	2	2	4	3	2	2	3	3.3	6.4
8-Feb-07	3	A	6	3	3	3	6	7	6	5	5	3	4	4	8	6	4	5	5	4	5	3	4	3	4.6	7.9
9-Feb-07	A	6	3	4	3	5	4	6	8	4	2	2	3	2	2	2	3	3	3	4	8	7	7	A	4.0	7.9
10-Feb-07	10	6	10	10	19	21	19	21	22	21	16	10	7	5	3	4	6	9	5	5	21	15	A	14	12.1	22.4
11-Feb-07	26	10	9	14	19	16	10	8	6	6	2	2	3	2	3	4	2	3	3	4	4	A	6	3	7.1	26.2
12-Feb-07	3	2	3	3	2	3	4	6	8	5	4	2	3	2	2	2	2	3	5	5	A	6	6	7	3.8	8.0
13-Feb-07	5	6	6	6	6	7	11	10	7	6	6	8	6	6	6	8	6	5	8	A	32	37	25	21	10.7	37.2
14-Feb-07	52	32	65	41	37	26	39	59	72	97	75	29	19	12	14	25	35	15	A	4	3	3	1	3	33.0	96.6
15-Feb-07	5	1	2	2	2	9	5	6	6	6	6	6	4	7	7	6	9	A	8	3	4	2	4	5	5.0	8.7
16-Feb-07	11	9	12	22	10	16	25	33	24	15	16	16	12	12	7	12	A	21	13	18	16	6	9	10	15.1	32.9
17-Feb-07	5	3	3	5	3	4	4	9	5	8	4	3	5	6	4	A	9	11	8	6	3	7	12	2	5.5	12.0
18-Feb-07	1	2	3	3	1	0	1	1	5	1	1	1	8	7	A	5	6	6	4	2	2	10	11	6	3.9	11.1
19-Feb-07	9	9	5	7	8	5	10	12	4	3	5	3	6	A	10	3	5	6	9	9	2	3	1	2	5.9	12.4
20-Feb-07	1	1	4	2	1	3	11	8	3	3	3	2	A	7	5	5	6	6	18	9	5	14	17	19	6.6	18.7
21-Feb-07	19	11	13	14	18	20	24	25	20	13	6	A	9	8	2	2	6	8	15	16	6	5	4	4	11.6	24.9
22-Feb-07	9	8	31	28	38	33	36	36	25	15	A	6	4	4	3	C	C	C	C	C	A	4	4	2	N	38.4
23-Feb-07	8	7	A	10	10	14	19	17	12	8	7	6	5	8	10	11	9	11	17	33	43	27	48	96	18.9	95.5
24-Feb-07	57	47	A	29	33	26	38	57	41	45	55	16	3	7	8	5	6	11	15	14	19	15	12	9	24.6	56.8
25-Feb-07	14	A	9	15	7	8	8	6	11	12	6	4	2	2	2	2	2	1	3	3	3	3	2	2	5.5	14.6
26-Feb-07	A	5	3	3	6	5	5	7	8	8	7	6	4	3	3	3	3	4	5	6	7	6	8	A	5.2	7.9
27-Feb-07	12	14	17	14	11	13	17	32	29	14	20	20	16	13	14	14	9	8	4	8	8	7	A	11	14.1	31.7
28-Feb-07	9	9	9	9	8	6	9	10	13	7	8	6	4	4	4	5	4	4	3	2	3	A	5	3	6.2	12.8
Hourly Avg	15.1	11.4	14.9	13.7	12.6	13.3	16.5	20.4	16.2	14.9	13.6	8.7	6.4	6.1	6.2	6.6	7.1	8.2	9.9	11.0	13.0	13.2	14.1	16.0		
Hourly Max	62.0	51.7	66.5	49.8	38.4	41.7	61.3	105.0	72.3	96.6	75.1	40.2	18.9	13.2	13.9	25.3	35.1	21.4	39.8	49.2	60.9	68.6	87.7	107.0		

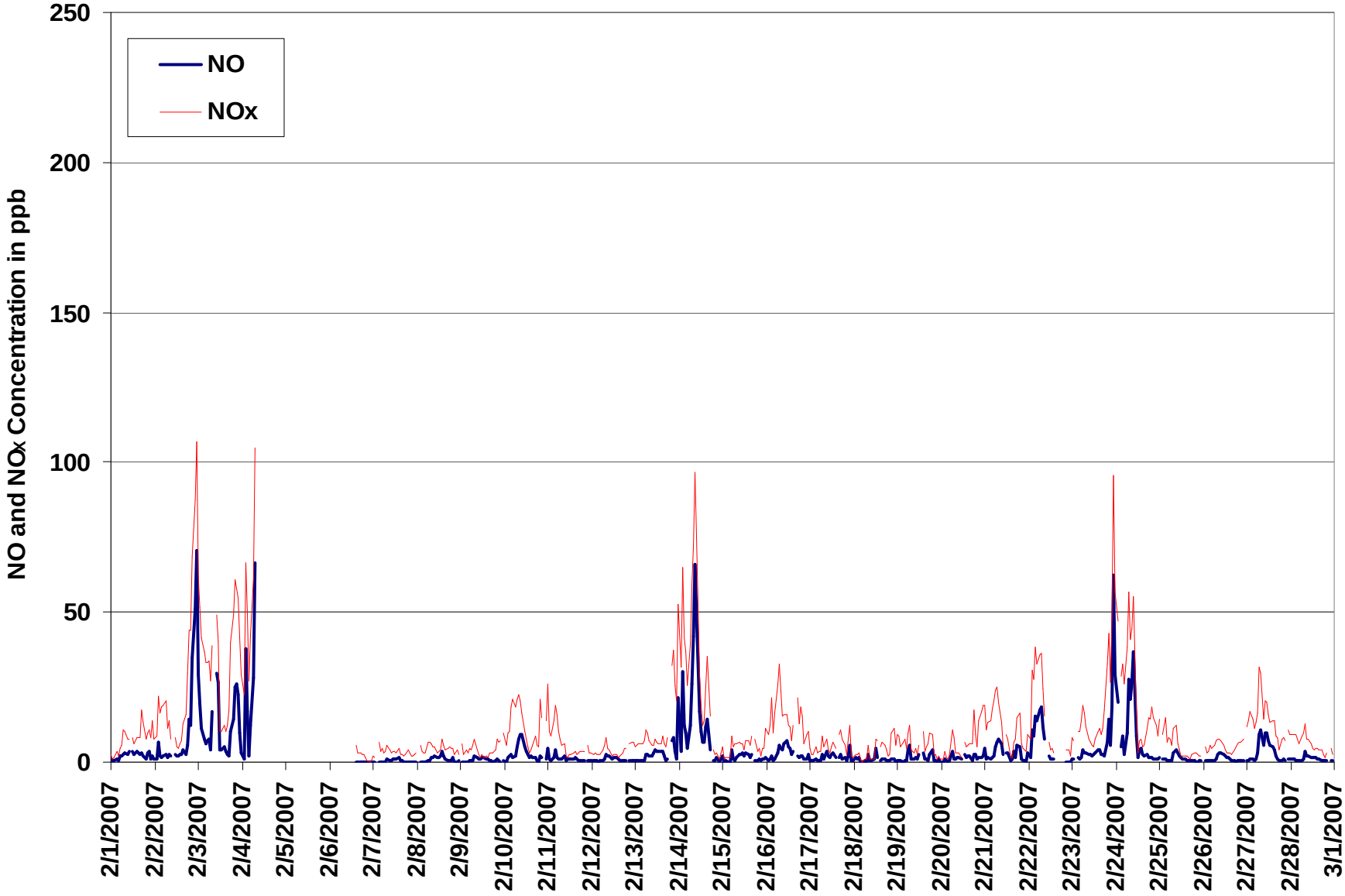


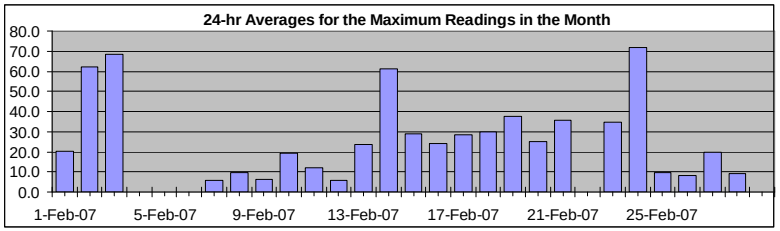
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	261.2	ppb	2-Feb	21:00 22:00
Maximum 24-hr Value:	71.6	ppb	24-Feb	

AIC Time:	30 hrs	Operational Time:	585 hrs
Calibration Time:	8 hrs	AMD Operational Uptime:	92.7%

Percentile	99	95	75	50	25	5	1	Average	Median
	189.8	102.5	34.0	12.7	6.3	3.4	1.9	28.5 ppb	12.7 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-Feb-07	5	2	2	8	3	8	9	19	15	10	10	A	12	9	13	15	12	21	20	12	125	85	10	39	20.3	124.5
2-Feb-07	14	14	189	39	27	29	31	15	20	19	A	14	10	8	22	15	45	27	62	94	65	261	156	249	62.0	261.2
3-Feb-07	172	62	49	45	72	62	42	31	55	A	62	211	16	15	22	16	16	57	74	67	81	141	162	49	68.6	210.5
4-Feb-07	46	29	189	89	34	80	103	177	A	132	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	189.4
5-Feb-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
6-Feb-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	9	6	7	5	5	5	2	2	2	N	9.4
7-Feb-07	4	3	A	13	6	8	5	10	8	5	5	5	5	4	17	6	5	4	5	6	5	3	3	4	6.0	16.9
8-Feb-07	6	A	9	5	4	5	10	10	9	8	30	6	5	6	49	10	6	6	9	7	13	4	6	4	9.8	48.7
9-Feb-07	A	9	4	6	4	6	7	9	11	7	4	3	4	5	4	3	5	5	4	7	12	9	10	A	6.3	11.8
10-Feb-07	13	11	15	16	22	25	24	38	34	40	28	12	10	7	5	8	10	12	8	8	50	31	A	20	19.4	50.4
11-Feb-07	60	22	12	38	22	21	14	10	7	10	4	5	7	4	6	5	4	5	4	5	5	A	8	4	12.2	60.2
12-Feb-07	4	3	5	4	3	3	6	8	12	6	6	3	4	4	3	3	3	6	7	6	A	8	11	10	5.7	12.4
13-Feb-07	6	7	7	8	9	13	57	70	10	7	8	10	9	10	38	29	9	6	29	A	85	46	41	30	23.7	85.4
14-Feb-07	236	38	100	71	75	37	69	70	95	127	86	48	26	19	33	34	64	71	A	12	3	46	2	51	61.3	235.6
15-Feb-07	98	2	14	3	3	121	47	9	11	10	9	10	19	20	39	25	88	A	38	6	47	5	22	18	28.8	121.2
16-Feb-07	20	12	21	32	12	23	34	38	36	23	21	29	16	19	12	15	A	33	22	25	34	13	16	49	24.1	49.2
17-Feb-07	8	7	5	7	5	6	5	57	7	37	6	5	12	75	8	A	12	89	34	66	4	62	115	24	28.4	115.4
18-Feb-07	36	102	43	99	2	1	33	36	74	7	3	5	79	32	A	13	22	18	18	3	10	21	22	10	30.0	101.9
19-Feb-07	19	18	8	12	37	7	106	106	7	12	70	4	21	A	19	5	7	9	152	131	18	49	2	40	37.4	152.5
20-Feb-07	2	2	34	3	3	8	95	12	6	4	5	4	A	66	33	39	30	15	60	75	10	24	21	23	25.0	95.0
21-Feb-07	62	13	16	20	23	24	74	36	91	75	20	A	14	13	4	6	91	14	123	71	10	10	10	5	35.8	122.9
22-Feb-07	66	56	52	88	94	66	82	43	33	21	A	9	7	15	4	C	C	C	C	C	A	7	7	7	N	94.1
23-Feb-07	13	11	A	21	13	20	29	27	29	29	9	7	6	20	15	14	15	46	31	52	97	38	72	181	34.6	181.2
24-Feb-07	124	224	A	39	127	36	50	113	65	51	192	53	5	128	127	59	50	65	26	22	25	23	19	24	71.6	224.1
25-Feb-07	21	A	21	21	10	21	10	9	25	21	9	7	4	7	3	6	4	4	5	4	4	3	3	3	9.8	25.3
26-Feb-07	A	7	5	5	8	6	7	11	11	10	9	28	5	5	7	5	4	5	7	8	9	9	10	A	8.2	28.4
27-Feb-07	17	18	20	20	15	17	21	43	44	20	23	31	19	18	41	17	14	11	6	10	10	9	A	14	19.9	43.8
28-Feb-07	11	13	13	11	10	8	10	15	36	9	11	7	5	5	6	8	6	6	5	4	6	A	7	4	9.3	36.3
Hourly Avg	44.3	28.5	36.3	27.7	24.8	25.5	37.6	39.3	30.1	28.0	27.3	22.4	13.4	21.4	22.0	15.2	22.0	22.6	31.3	29.5	30.5	37.9	30.7	36.0		
Hourly Max	235.6	224.1	189.4	98.6	126.6	121.2	106.1	177.1	95.4	131.9	191.8	210.5	79.4	128.2	126.6	58.7	90.6	89.2	152.5	130.5	124.5	261.2	161.7	248.5		

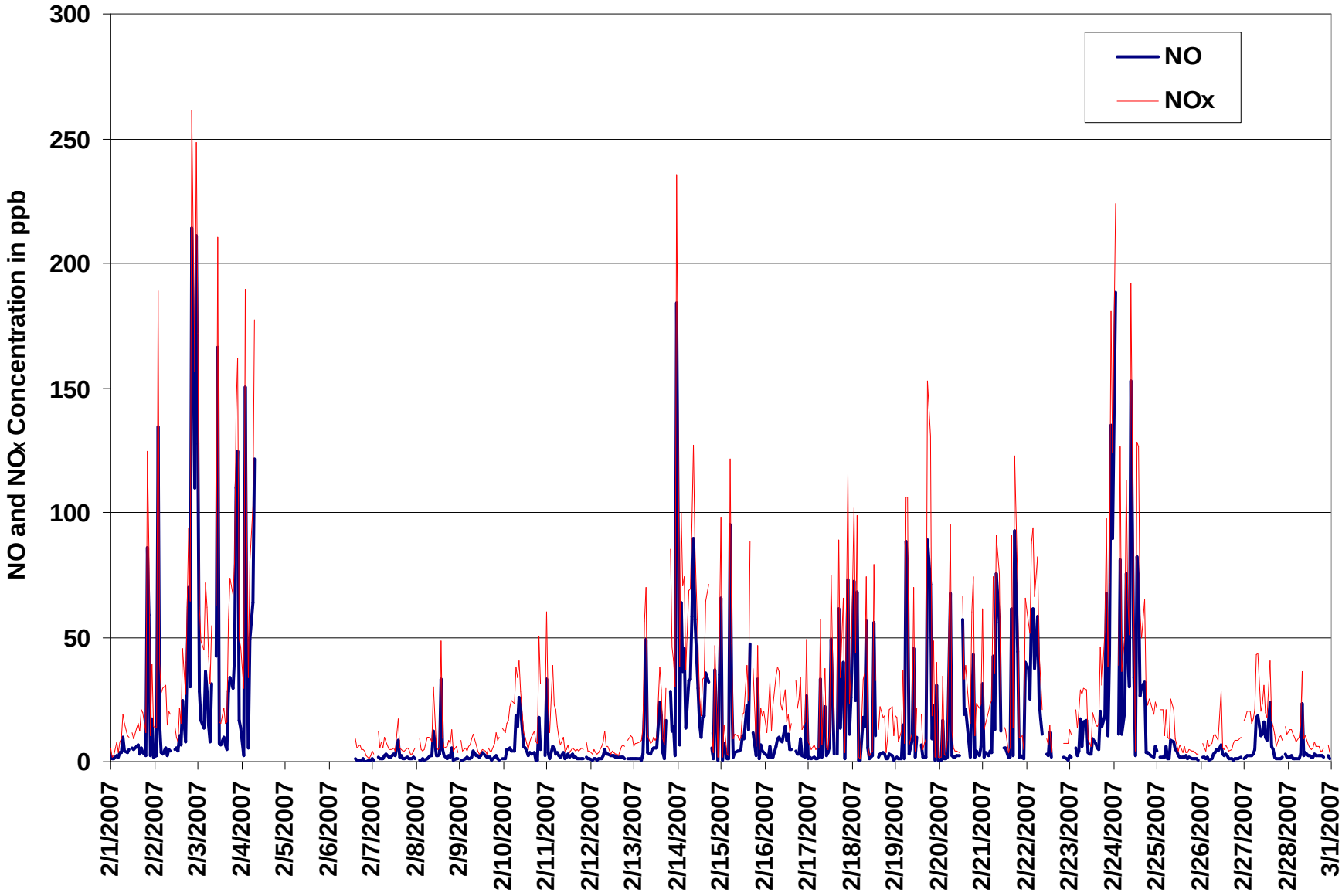


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PAS - Crescent Heights - Ozone Monthly Summary

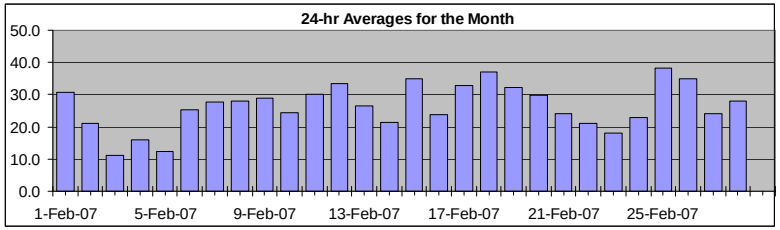
Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Ozone (O_3)

Monitoring Dates: February 1, 2007 to March 1, 2007

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



Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	45.6	ppb	25-Feb	14:00 15:00
Maximum 24-hr Average:	38.2	ppb	25-Feb	

AIC Time:	31 hrs	Operational Time:	639 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	41.9	39.3	33.4	28.7	22.2	3.8	1.6	26.4 ppb	28.7 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-Feb-07	35	37	38	35	35	33	32	27	28	30	32	A	33	34	33	33	31	23	24	28	28	27	26	22	30.7	37.9
2-Feb-07	26	24	17	17	17	18	20	27	26	32	A	34	36	36	35	34	29	24	14	8	4	2	2	2	21.0	36.3
3-Feb-07	2	2	2	2	3	4	2	4	5	A	10	23	32	32	31	31	28	21	8	2	2	4	3	2	11.1	32.2
4-Feb-07	8	12	7	3	6	2	2	2	A	10	30	32	28	29	28	23	26	22	21	20	20	12	11	15	16.0	31.7
5-Feb-07	15	13	13	15	12	7	10	A	11	16	16	20	24	26	17	14	15	7	2	7	6	1	4	12	12.4	25.8
6-Feb-07	19	19	19	23	23	23	A	26	25	26	27	27	28	27	28	28	28	27	26	26	26	27	27	27	25.3	28.1
7-Feb-07	27	28	A	26	26	25	27	26	24	25	26	26	27	29	28	30	31	30	29	28	29	30	30	29	27.6	31.3
8-Feb-07	28	A	27	27	27	26	24	26	26	27	29	30	30	29	28	29	29	28	27	28	29	29	28	30	27.9	30.0
9-Feb-07	A	29	30	28	28	27	27	25	25	29	30	31	31	32	33	33	31	31	30	29	26	27	26	A	29.0	32.6
10-Feb-07	25	27	24	24	16	13	15	16	17	20	24	27	29	33	35	35	32	28	30	30	17	22	A	22	24.5	35.4
11-Feb-07	14	25	25	21	18	18	22	26	28	31	36	37	37	37	36	36	37	37	36	34	34	A	33	34	30.1	37.2
12-Feb-07	33	34	33	34	34	33	32	30	30	33	33	35	36	36	36	37	36	34	33	33	A	32	30	29	33.4	36.9
13-Feb-07	29	28	27	27	27	26	25	26	28	30	30	31	32	33	33	31	31	31	29	A	14	8	14	15	26.4	33.1
14-Feb-07	7	4	2	5	6	11	6	2	9	13	19	27	31	33	33	28	21	32	A	41	41	41	41	40	21.4	41.2
15-Feb-07	38	39	38	38	37	34	34	32	34	34	34	35	38	39	38	37	34	A	35	35	31	32	30	29	35.0	39.0
16-Feb-07	23	23	20	15	23	18	11	9	17	25	27	29	30	31	33	30	A	23	26	22	22	33	30	26	23.8	33.4
17-Feb-07	27	32	30	28	30	30	31	29	32	33	36	36	34	36	38	A	34	31	31	34	35	33	34	39	32.8	39.4
18-Feb-07	41	41	40	39	41	42	41	41	40	40	39	39	38	34	A	38	35	36	36	37	35	27	24	28	37.1	42.1
19-Feb-07	25	25	32	31	30	33	25	22	29	31	33	37	36	A	36	41	38	33	31	33	36	35	35	34	32.2	41.2
20-Feb-07	33	32	29	31	30	28	23	24	30	31	34	37	A	36	36	37	39	36	25	34	34	19	15	14	29.9	38.9
21-Feb-07	19	22	20	18	12	8	9	6	14	23	32	A	36	37	41	41	38	32	26	22	25	26	25	23	24.2	41.2
22-Feb-07	21	19	6	6	2	3	2	3	9	16	A	29	31	31	33	33	33	32	33	31	30	28	26	26	21.1	33.4
23-Feb-07	20	19	A	16	15	11	10	12	18	28	30	C	C	A	33	32	33	31	23	11	7	10	2	2	18.1	32.7
24-Feb-07	1	1	A	8	10	9	4	5	12	16	18	33	38	38	40	40	38	34	30	31	26	28	31	35	22.9	40.2
25-Feb-07	27	A	36	29	36	35	34	36	33	34	38	41	44	44	46	45	43	42	41	39	38	38	39	38	38.2	45.6
26-Feb-07	A	36	37	36	32	32	31	30	32	33	34	35	37	39	39	40	41	38	36	34	33	32	30	A	34.8	40.9
27-Feb-07	27	22	18	21	23	20	19	10	15	24	23	24	25	26	26	25	30	32	34	30	29	29	A	24	24.2	34.2
28-Feb-07	24	24	23	22	24	25	23	23	22	26	25	27	29	30	30	32	33	33	35	37	33	A	32	34	28.1	36.5
Hourly Avg	22.9	23.7	23.8	22.3	22.3	21.3	20.1	20.1	23.0	26.5	28.8	31.3	32.8	33.4	33.5	33.0	32.4	29.8	27.9	27.5	25.5	24.3	24.2	24.3		
Hourly Max	41.0	40.6	39.7	39.5	40.7	42.1	41.5	40.8	39.9	39.6	38.9	40.9	43.8	44.5	45.6	45.1	43.0	42.5	41.2	40.5	40.9	40.6	41.2	39.7		

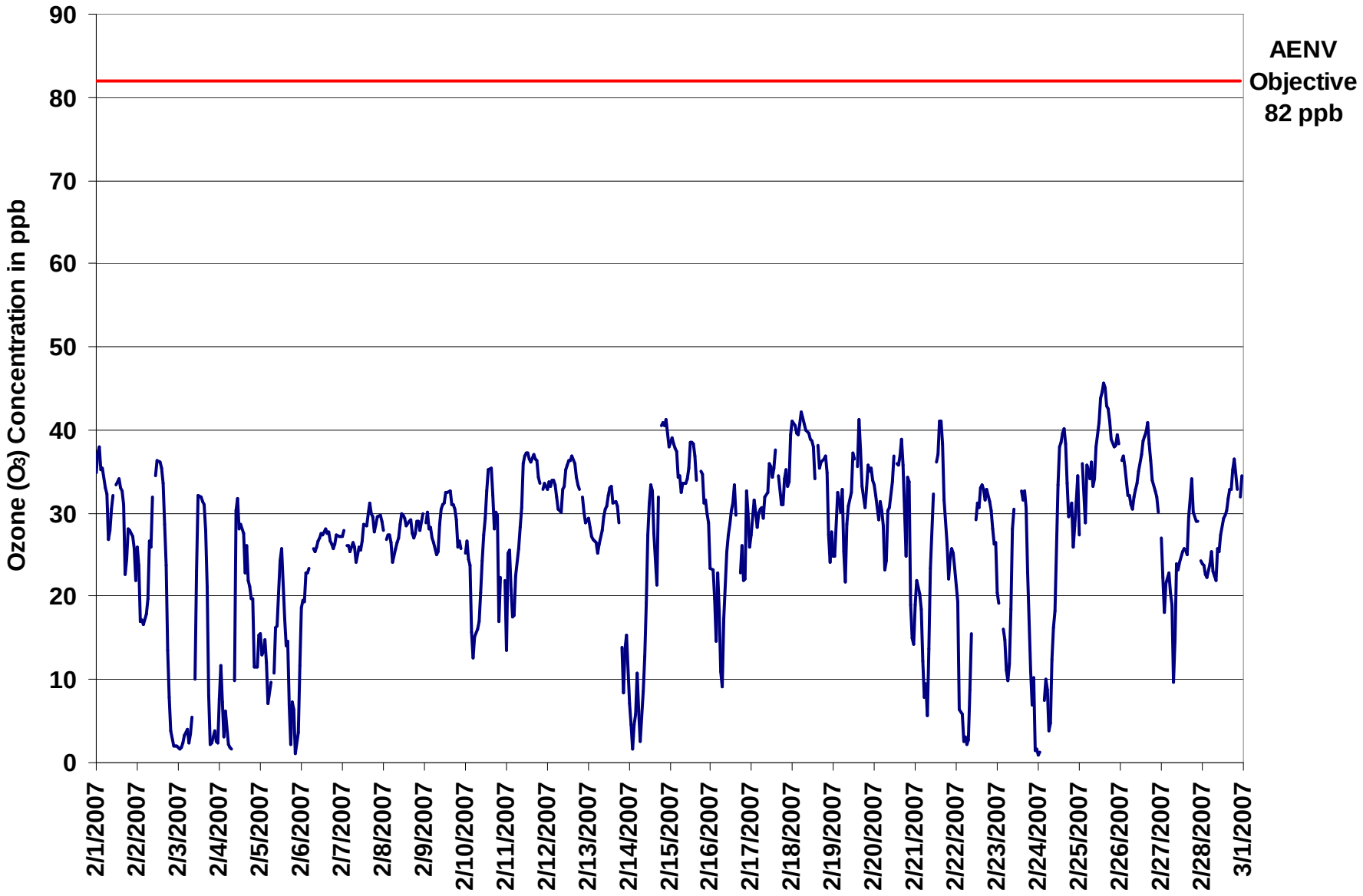


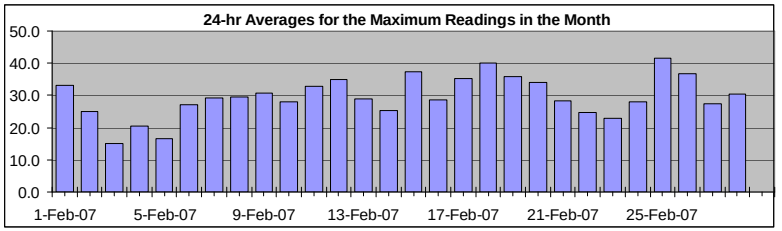
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	46.8	ppb	25-Feb	14:00 15:00
Maximum 24-hr Value:	41.4	ppb	25-Feb	

AIC Time:	31 hrs	Operational Time:	639 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	43.5	42.0	36.0	31.1	25.9	9.7	3.0	29.6 ppb	31.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-07	38	39	39	38	36	35	34	32	31	33	34	A	35	35	35	35	34	26	29	31	31	30	28	26	33.2	39.2
2-Feb-07	28	26	22	22	20	22	26	29	28	34	A	36	37	38	37	35	34	29	26	24	7	3	3	3	24.9	37.8
3-Feb-07	3	3	4	5	5	9	6	6	8	A	13	33	34	35	34	34	32	26	22	4	6	13	6	4	15.0	34.9
4-Feb-07	11	17	16	11	10	5	3	3	A	22	33	33	33	32	31	31	31	27	24	22	23	21	17	18	20.6	33.4
5-Feb-07	17	17	15	17	15	12	14	A	17	18	20	22	28	27	25	19	19	13	8	14	14	3	10	15	16.4	27.7
6-Feb-07	23	22	22	24	25	25	A	28	27	27	28	29	29	29	30	30	30	29	28	27	28	29	28	28	27.2	29.9
7-Feb-07	29	29	A	27	28	28	28	28	26	26	27	27	29	30	30	32	32	31	31	29	31	31	31	31	29.2	32.5
8-Feb-07	30	A	29	29	29	28	27	28	29	29	31	31	31	30	30	31	30	29	28	30	31	31	30	32	29.6	31.7
9-Feb-07	A	31	31	30	30	28	29	27	29	30	32	32	32	34	33	34	32	33	32	31	30	28	27	A	30.7	33.9
10-Feb-07	28	29	27	26	22	18	17	20	22	23	26	30	31	37	38	38	36	30	32	32	27	29	A	26	28.0	38.1
11-Feb-07	23	27	29	26	22	22	25	30	31	34	39	38	39	38	38	38	39	40	38	38	35	A	35	35	32.9	39.6
12-Feb-07	35	35	34	35	35	35	34	33	32	34	35	36	37	37	37	38	37	37	35	34	A	34	33	31	34.9	38.1
13-Feb-07	31	30	29	28	30	29	28	28	31	31	32	32	33	35	35	33	33	32	32	A	19	14	19	21	29.0	34.7
14-Feb-07	13	11	3	12	10	15	12	5	12	16	24	30	34	36	35	31	31	40	A	42	42	42	43	42	25.2	42.6
15-Feb-07	40	40	40	39	39	38	37	35	35	35	35	38	40	41	40	39	37	A	37	36	35	33	34	33	37.3	40.6
16-Feb-07	29	26	22	24	25	25	15	13	26	28	30	32	32	34	36	32	A	32	32	29	31	41	39	31	28.8	40.9
17-Feb-07	31	34	32	31	31	32	33	34	34	35	38	37	36	37	41	A	37	35	33	37	37	38	39	42	35.3	41.6
18-Feb-07	43	43	42	42	43	43	43	43	42	41	41	40	43	40	A	41	41	41	40	39	37	35	30	32	40.1	43.3
19-Feb-07	29	30	35	40	36	37	30	27	31	32	36	40	40	A	42	43	41	38	34	37	37	36	37	36	35.8	43.1
20-Feb-07	35	34	32	34	32	31	28	32	32	32	37	38	A	38	37	42	43	41	35	40	38	29	21	18	33.9	43.0
21-Feb-07	24	24	22	22	16	14	18	10	20	28	37	A	40	41	43	43	42	37	31	30	28	29	28	26	28.3	43.1
22-Feb-07	26	23	17	19	5	7	4	6	14	20	A	33	32	33	34	35	34	33	36	35	32	30	28	30	24.7	35.6
23-Feb-07	26	23	A	20	17	15	15	16	27	31	32	C	C	A	36	34	35	33	28	26	17	21	4	3	22.9	36.1
24-Feb-07	2	3	A	13	17	15	12	15	14	19	23	39	39	42	42	43	42	38	35	40	34	37	36	42	27.9	43.4
25-Feb-07	38	A	42	41	41	38	36	39	38	38	40	43	46	46	47	47	45	44	44	40	39	39	41	40	41.4	46.8
26-Feb-07	A	37	38	37	35	34	33	32	34	34	35	37	38	40	40	42	42	40	38	37	34	34	31	A	36.6	42.5
27-Feb-07	30	28	21	25	25	23	22	16	22	26	25	26	27	28	27	26	34	35	37	33	31	31	A	28	27.3	36.8
28-Feb-07	26	27	26	25	27	29	24	25	25	28	28	29	32	31	31	35	35	35	38	38	37	A	33	36	30.4	38.1
Hourly Avg	26.5	26.4	26.9	26.5	25.1	24.7	23.4	23.7	26.6	29.2	31.1	33.6	34.9	35.6	35.7	35.6	35.5	33.5	31.9	31.6	29.3	28.5	27.4	27.2		
Hourly Max	42.6	43.0	42.4	41.5	42.6	43.1	42.9	43.3	42.4	40.7	40.8	43.3	45.7	46.2	46.8	46.8	45.3	44.2	43.6	42.1	42.1	42.0	42.6	42.1		

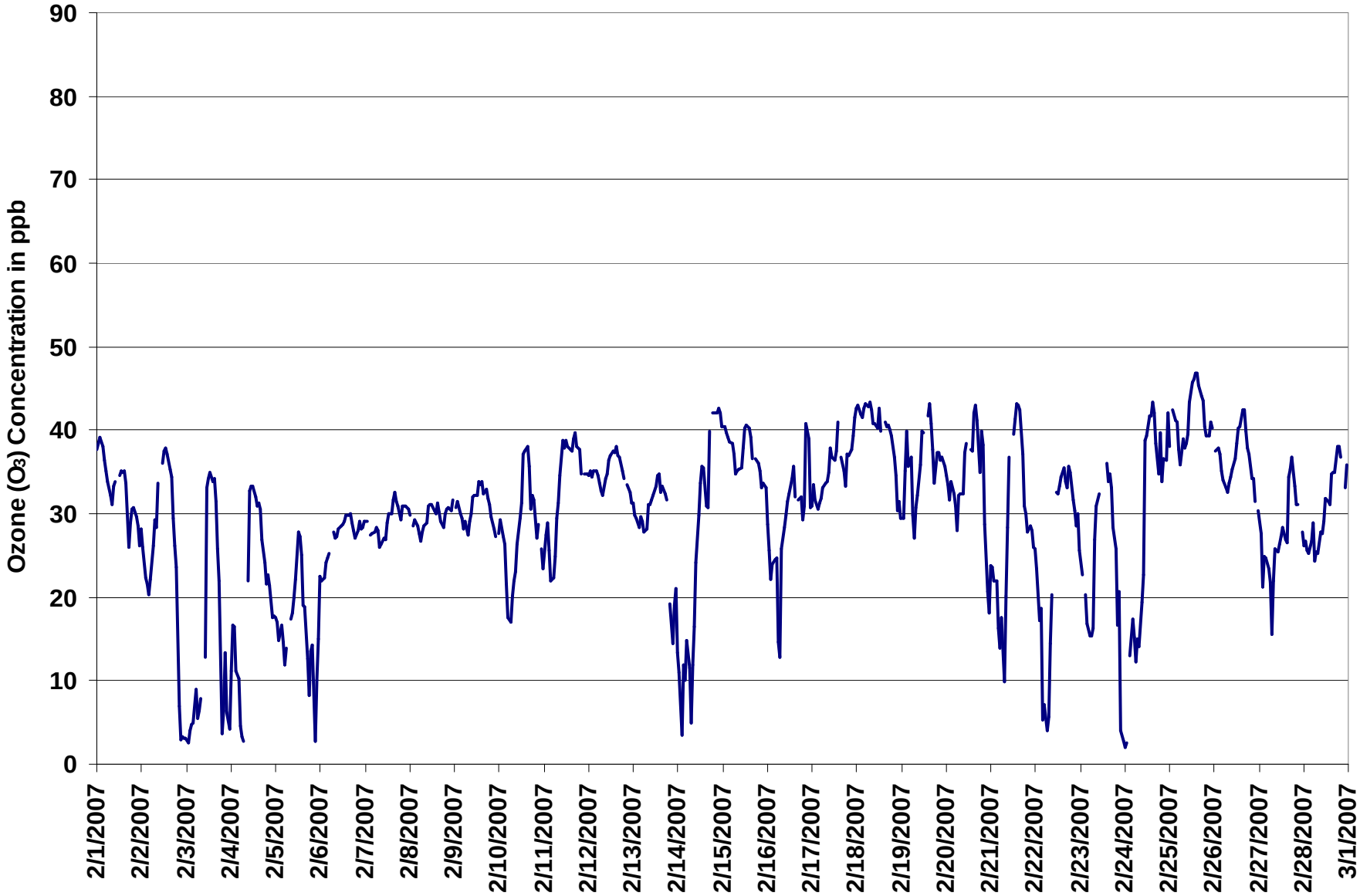
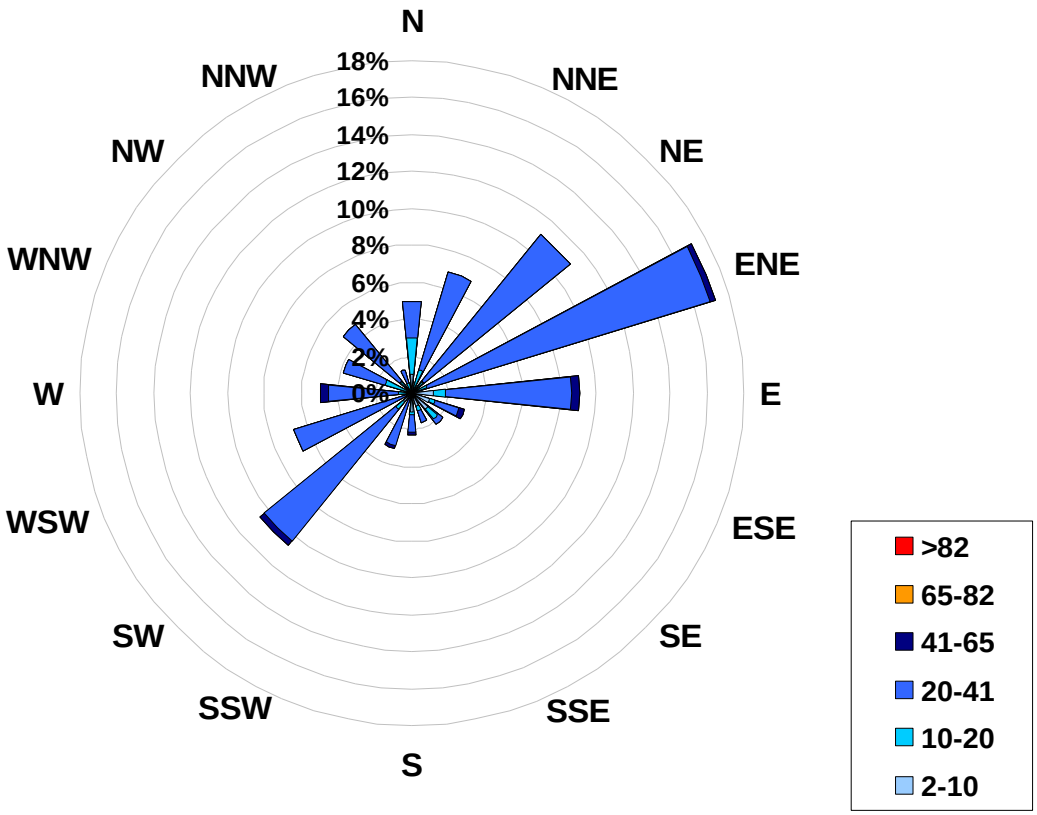


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Crescent Heights Site for February 2007



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	68
10	to	20	71
20	to	41	486
41	to	65	14
65	to	82	0
	>	82	0
Total Non-Zero Values			639

PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

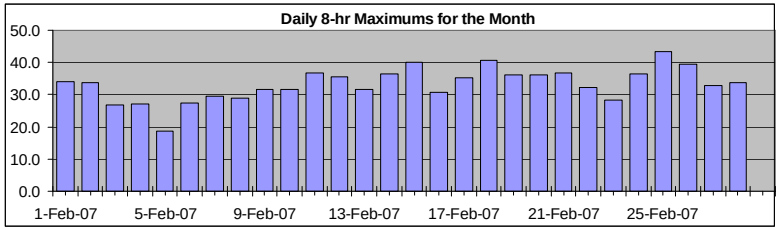
Ozone (O_3)

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	43.3	ppb	25-Feb	18:00 19:00



Percentile	99	95	75	50	25	5	1
	40.7	38.0	32.8	28.3	21.6	7.0	3.2

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Feb-07	14	17	20	22	25	29	32	34	33	32	32	31	31	31	31	32	32	31	30	30	29	28	27	26	34.1
2-Feb-07	25	26	25	23	22	21	20	21	21	22	22	25	28	30	32	33	34	33	30	27	23	19	14	10	33.8
3-Feb-07	7	4	3	2	2	2	2	3	3	3	4	7	12	16	20	24	27	26	26	23	20	16	12	9	26.8
4-Feb-07	6	5	5	5	6	5	5	5	5	5	8	12	15	19	23	26	26	27	26	25	23	21	19	18	27.2
5-Feb-07	17	16	15	14	13	13	13	12	12	12	12	13	15	18	19	18	19	17	16	14	12	9	7	7	18.8
6-Feb-07	7	9	11	13	15	18	20	22	23	24	25	25	26	27	27	27	27	27	27	27	27	27	27	27	27.4
7-Feb-07	27	27	27	27	27	27	27	26	26	26	26	26	26	26	26	27	28	28	29	29	29	29	30	29	29.5
8-Feb-07	29	29	28	28	28	28	27	27	26	26	27	27	27	28	28	29	29	29	29	29	28	28	28	28	29.0
9-Feb-07	28	28	29	29	29	29	28	28	27	27	27	28	28	29	30	31	31	32	32	31	31	30	29	29	31.6
10-Feb-07	28	27	26	25	24	22	20	20	19	18	18	19	20	23	25	28	30	31	31	32	30	29	28	26	31.6
11-Feb-07	23	23	22	21	21	20	21	21	23	24	25	27	29	32	34	35	36	37	37	36	36	36	35	35	36.7
12-Feb-07	34	34	33	33	33	33	33	33	33	32	32	33	33	33	34	35	35	36	36	35	35	35	34	32	35.5
13-Feb-07	32	31	30	29	29	28	27	27	27	27	27	28	29	29	30	31	31	32	31	32	29	25	23	20	31.6
14-Feb-07	17	13	9	9	8	8	7	5	6	7	9	12	15	18	21	24	26	28	29	31	33	34	35	37	36.6
15-Feb-07	39	40	40	39	39	38	37	36	36	35	35	34	35	35	36	36	36	37	37	37	36	35	33	32	40.0
16-Feb-07	31	30	28	25	24	23	20	18	17	17	18	20	21	23	25	28	29	29	29	28	27	27	26	26	30.7
17-Feb-07	26	27	28	29	30	29	29	30	30	30	31	32	33	33	34	35	35	35	34	34	34	34	33	34	35.1
18-Feb-07	35	36	37	38	38	40	41	41	41	40	40	40	40	39	39	38	38	37	37	36	36	35	34	32	40.7
19-Feb-07	31	30	29	28	28	29	29	28	28	29	29	30	31	30	32	35	36	36	36	35	35	35	35	34	36.3
20-Feb-07	34	34	33	33	33	32	30	29	29	28	29	30	30	31	32	34	36	36	35	35	35	32	30	27	36.3
21-Feb-07	24	23	22	20	18	16	15	14	14	14	15	15	18	23	27	32	36	37	36	34	33	31	29	27	36.8
22-Feb-07	25	24	21	19	16	13	11	8	6	6	6	9	13	17	22	26	29	32	32	32	32	32	31	30	32.1
23-Feb-07	28	27	26	24	22	19	17	15	14	16	18	18	N	N	N	N	N	N	N	N	24	22	18	15	28.5
24-Feb-07	11	7	5	4	5	5	5	5	7	9	10	13	17	21	25	30	33	35	36	36	35	33	32	32	36.4
25-Feb-07	30	30	31	30	32	33	33	33	34	34	34	36	37	38	40	41	42	43	43	43	42	42	41	40	43.3
26-Feb-07	39	39	38	37	37	36	35	33	33	33	32	32	33	34	35	36	37	38	38	38	37	37	35	35	39.5
27-Feb-07	33	31	28	26	25	23	22	20	19	19	19	20	20	21	22	23	25	26	28	28	29	29	30	30	32.9
28-Feb-07	29	28	26	25	24	24	24	23	23	23	24	24	25	26	27	28	29	30	31	32	33	33	33	34	33.8
Hourly Max	39.5	40.0	39.8	39.4	39.0	39.6	40.6	40.7	40.6	40.5	40.4	40.3	39.9	38.9	39.5	40.7	41.9	42.9	43.3	43.1	42.3	41.5	40.8	39.9	

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

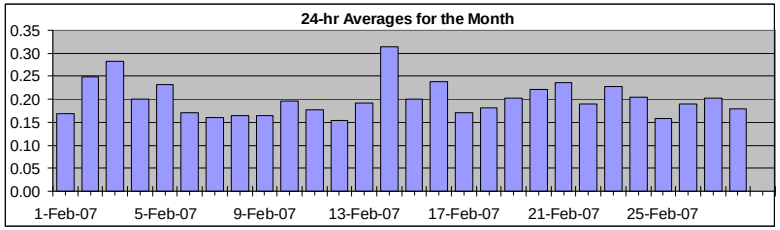
Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.8	ppm	14-Feb	8:00 9:00
Maximum 24-hr Value:	0.3	ppm	14-Feb	



AIC Time:	31 hrs	Operational Time:	639 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.3	0.2	0.2	0.2	0.1	0.1	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-Feb-07	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.17	0.23
2-Feb-07	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.5	0.5	0.25	0.55
3-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	A	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.3	0.4	0.28	0.42
4-Feb-07	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	A	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.20	0.34
5-Feb-07	0.1	0.2	0.2	0.2	0.2	0.2	0.3	A	0.4	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.5	0.3	0.2	0.3	0.2	0.2	0.23	0.53
6-Feb-07	0.1	0.1	0.1	0.1	0.1	0.2	A	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	0.17	0.22
7-Feb-07	0.2	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.16	0.21
8-Feb-07	0.2	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.16	0.22
9-Feb-07	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	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.16	0.22
10-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	A	0.2	0.20	0.33
11-Feb-07	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.18	0.31
12-Feb-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	A	0.1	0.1	0.1	0.15	0.19
13-Feb-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.2	0.3	0.19	0.34
14-Feb-07	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.8	0.7	0.5	0.3	0.2	0.2	0.3	0.4	0.4	0.2	A	0.2	0.2	0.2	0.2	0.2	0.31	0.81
15-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	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	0.20	0.26
16-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.24	0.33
17-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.21
18-Feb-07	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.23
19-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.24
20-Feb-07	0.2	0.2	0.2	0.2	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	0.3	0.2	0.2	0.3	0.3	0.3	0.22	0.31
21-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.24	0.40
22-Feb-07	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.2	A	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.19	0.39
23-Feb-07	0.2	0.2	A	0.2	0.2	0.3	0.3	C	C	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.5	0.23	0.46
24-Feb-07	0.3	0.3	A	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.38
25-Feb-07	0.2	A	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	0.16	0.24
26-Feb-07	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.25
27-Feb-07	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	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.20	0.31
28-Feb-07	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	0.1	0.1	0.2	A	0.1	0.1	0.18	0.26
Hourly Avg	0.20	0.19	0.19	0.19	0.19	0.20	0.23	0.25	0.27	0.23	0.21	0.19	0.17	0.17	0.18	0.18	0.18	0.19	0.21	0.19	0.21	0.20	0.20	0.21		
Hourly Max	0.35	0.33	0.30	0.26	0.29	0.30	0.39	0.55	0.81	0.73	0.51	0.35	0.22	0.23	0.30	0.35	0.36	0.32	0.53	0.36	0.42	0.42	0.55	0.49		

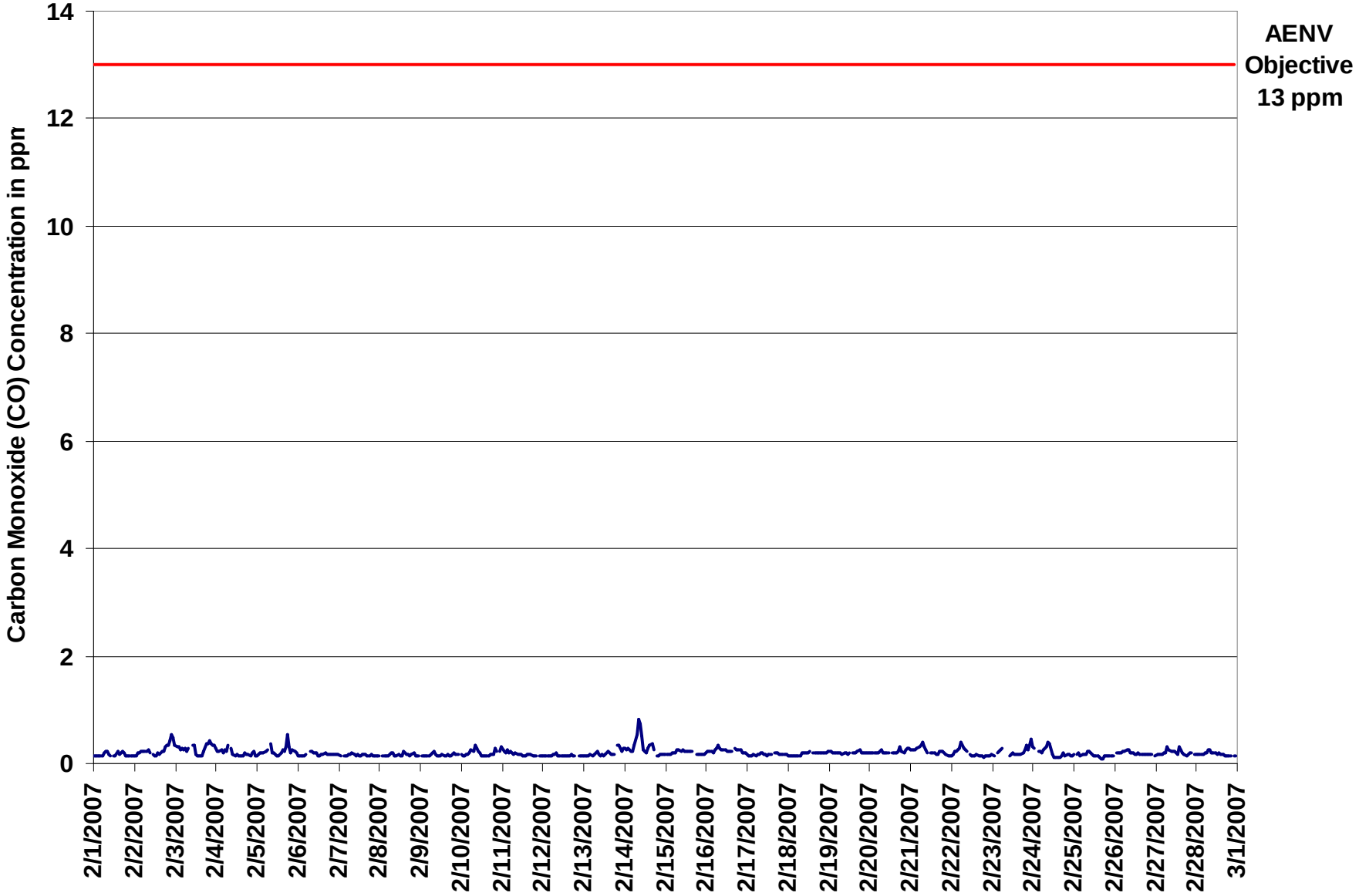


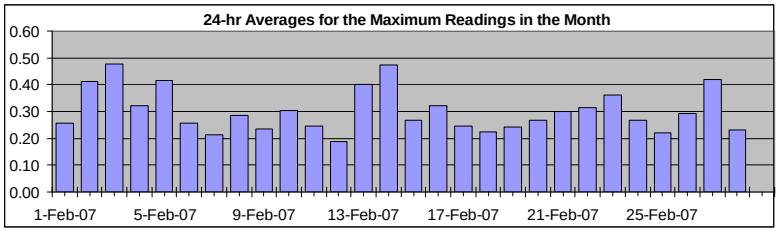
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	1.6	ppm	27-Feb	7:00 8:00
Maximum 24-hr Value:	0.5	ppm	3-Feb	

AIC Time:	31 hrs	Operational Time:	639 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.7	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-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.2	0.2	A	0.2	0.2	0.8	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.83
2-Feb-07	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.3	0.4	0.2	A	0.4	0.2	0.2	0.6	0.3	0.6	0.4	0.9	0.5	0.5	0.7	0.7	0.6	0.41	0.86
3-Feb-07	0.4	0.4	0.4	0.3	1.4	0.5	0.4	0.3	0.4	A	0.5	1.1	0.5	0.3	0.2	0.3	0.3	0.7	0.5	0.4	0.5	0.5	0.4	0.4	0.48	1.43
4-Feb-07	0.4	0.3	0.3	0.4	0.2	0.6	0.3	0.5	A	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.4	0.2	0.32	0.79
5-Feb-07	0.2	0.2	0.2	0.2	0.3	0.3	0.4	A	0.8	0.3	0.3	0.2	0.2	0.1	0.3	0.5	0.7	0.9	1.1	1.0	0.3	0.4	0.3	0.2	0.41	1.13
6-Feb-07	0.2	0.2	0.2	0.1	0.2	0.2	A	0.4	0.3	0.2	0.2	0.6	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.2	0.2	0.2	0.3	0.26	0.59
7-Feb-07	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.5	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.45
8-Feb-07	0.2	A	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.8	0.3	0.4	0.2	0.2	0.2	1.0	0.2	0.2	0.2	0.29	0.98
9-Feb-07	A	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.2	0.2	0.2	0.3	0.2	0.1	0.4	0.2	0.2	0.2	0.3	0.2	0.2	A	0.23	0.49
10-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.8	0.7	0.6	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	A	0.2	0.30	0.83
11-Feb-07	0.6	0.4	0.2	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.25	0.64
12-Feb-07	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.3	0.2	0.2	A	0.1	0.2	0.1	0.19	0.38
13-Feb-07	0.1	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.3	0.2	0.2	1.1	0.2	0.3	1.2	0.5	0.2	0.2	0.2	A	1.4	0.5	0.3	0.5	0.40	1.42
14-Feb-07	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.9	0.8	0.6	0.3	0.3	0.2	1.4	0.9	0.6	0.6	A	0.2	0.2	0.2	0.2	0.2	0.47	1.38
15-Feb-07	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.3	0.7	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.27	0.65
16-Feb-07	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.5	0.4	0.5	0.3	0.4	0.3	0.3	0.5	0.3	A	0.4	0.3	0.5	0.4	0.2	0.3	0.2	0.32	0.50
17-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.5	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.2	0.2	0.5	0.4	0.25	0.50
18-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.22	0.35
19-Feb-07	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.24	0.32
20-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.27	0.50
21-Feb-07	0.3	0.3	0.3	0.3	0.4	0.3	0.5	0.5	0.4	0.3	0.3	A	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.30	0.50
22-Feb-07	0.2	0.2	0.3	0.3	0.3	0.8	1.4	0.6	0.4	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.31	1.40
23-Feb-07	0.3	0.2	A	0.3	0.4	0.3	0.4	C	C	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.6	0.4	0.7	0.4	0.6	0.7	0.36	0.74
24-Feb-07	0.4	0.4	A	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.27	0.46
25-Feb-07	0.3	A	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.22	0.50
26-Feb-07	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.2	1.0	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	A	0.29	0.99
27-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.6	0.4	0.7	0.2	0.4	0.2	0.4	1.6	0.8	0.3	0.2	0.2	0.2	0.4	0.2	A	0.2	0.42	1.58
28-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.23	0.49
Hourly Avg	0.25	0.23	0.22	0.23	0.28	0.28	0.38	0.41	0.41	0.36	0.27	0.36	0.24	0.23	0.45	0.31	0.29	0.30	0.32	0.30	0.34	0.27	0.27	0.26		
Hourly Max	0.64	0.41	0.36	0.45	1.43	0.75	1.40	1.58	0.95	0.85	0.65	1.09	0.49	0.41	1.56	0.93	0.65	0.85	1.13	1.04	1.42	0.67	0.72	0.65		

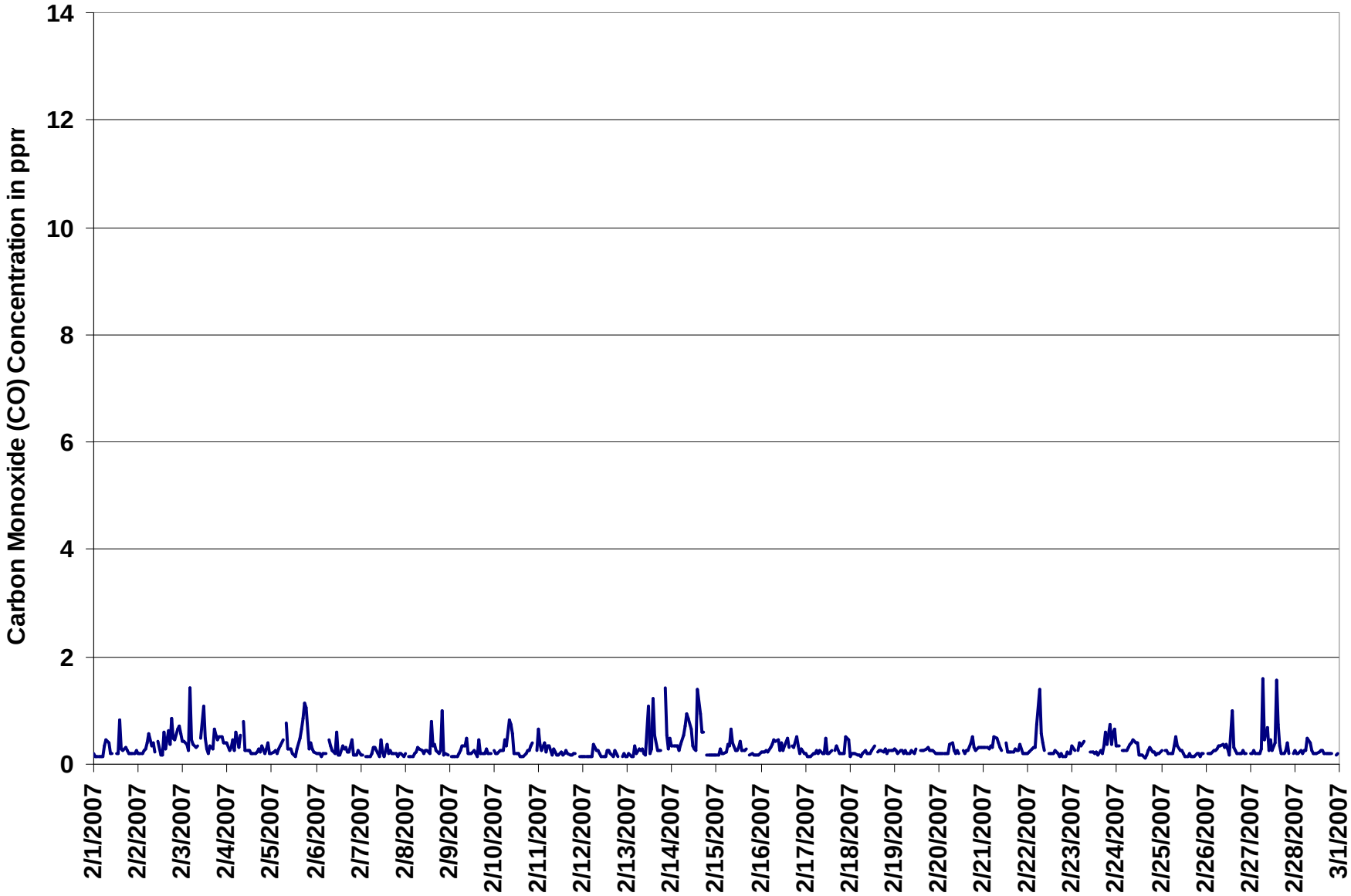
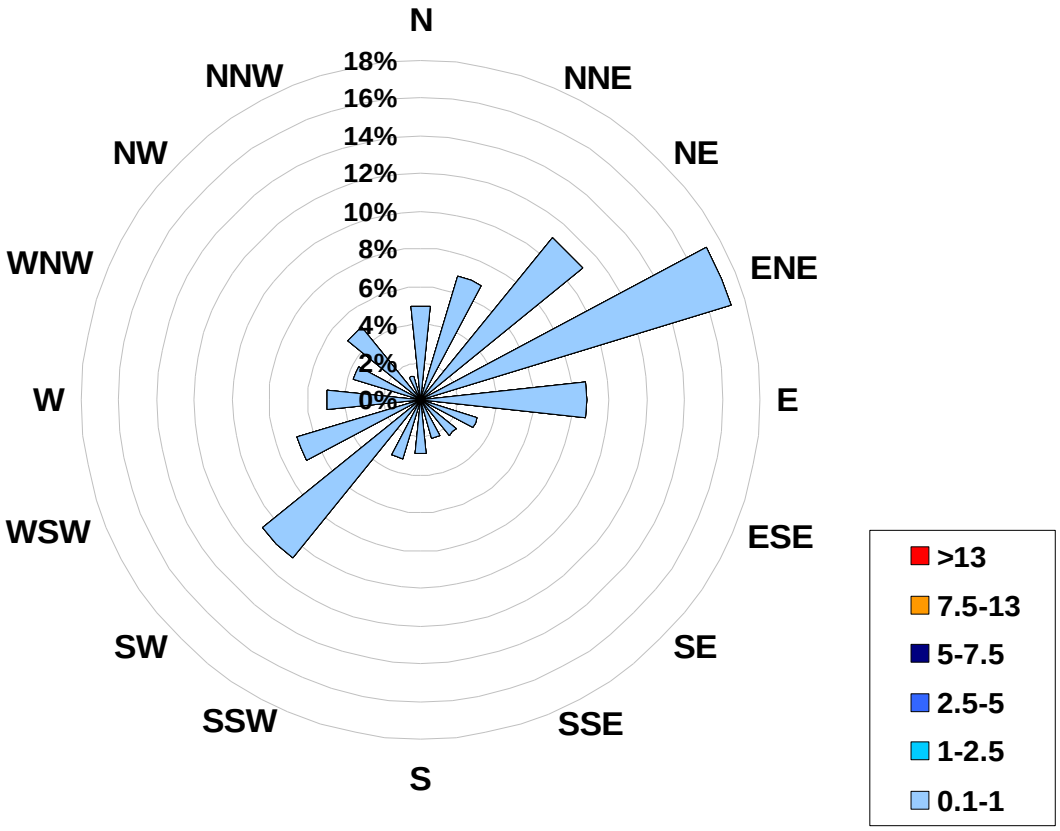


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for February 2007



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	639
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			639

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

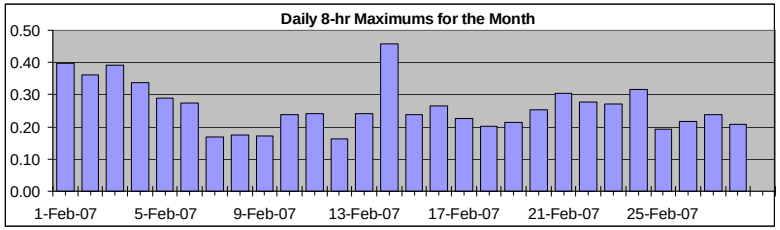
Carbon Monoxide (CO)

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.5	ppm	14-Feb	10:00 11:00



Percentile	99	95	75	50	25	5	1
	0.4	0.3	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-Feb-07	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40
2-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.36
3-Feb-07	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.39
4-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34
5-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.29
6-Feb-07	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
7-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17
8-Feb-07	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	0.2	0.2	0.17
9-Feb-07	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	0.2	0.17
10-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
11-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
12-Feb-07	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	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.16
13-Feb-07	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
14-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.46
15-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
16-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
17-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
18-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
19-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
20-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.25
21-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
22-Feb-07	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	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.28
23-Feb-07	0.1	0.1	0.1	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.27
24-Feb-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.32
25-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19
26-Feb-07	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
27-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
28-Feb-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
Hourly Max	0.40	0.39	0.39	0.38	0.37	0.35	0.32	0.31	0.37	0.43	0.46	0.46	0.46	0.45	0.44	0.42	0.36	0.30	0.27	0.27	0.27	0.29	0.32	0.36	

PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

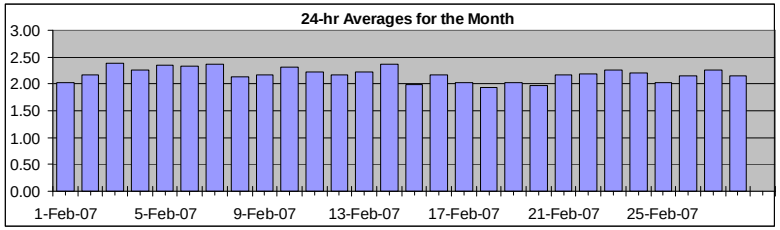
Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2007 to March 1, 2007

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

Summary

Maximum 1-hr Average:	3.0	ppm	23-Feb	23:00 0:00
Maximum 24-hr Value:	2.4	ppm	3-Feb	



AIC Time:	31 hrs	Operational Time:	639 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.5	2.3	2.1	2.0	1.9	1.9	2.2 ppm	2.1 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-Feb-07	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	A	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.02	2.13
2-Feb-07	2.0	2.0	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.4	2.7	2.7	2.7	2.18	2.72
3-Feb-07	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.6	A	2.7	2.3	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.6	2.8	2.4	2.4	2.39	2.76
4-Feb-07	2.3	2.2	2.3	2.3	2.3	2.4	2.3	2.4	A	2.5	2.2	2.1	2.1	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.26	2.46
5-Feb-07	2.5	2.5	2.6	2.5	2.5	2.5	2.4	A	2.3	2.3	2.4	2.2	2.1	2.1	2.0	2.0	2.2	2.4	2.9	2.5	2.3	2.3	2.3	2.2	2.35	2.93
6-Feb-07	2.1	2.2	2.3	2.4	2.4	2.5	A	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.33	2.46
7-Feb-07	2.4	2.3	A	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.2	2.2	2.2	2.37	2.58
8-Feb-07	2.2	A	2.2	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.13	2.24
9-Feb-07	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	A	2.16	2.24
10-Feb-07	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.1	2.3	2.2	2.2	2.2	2.2	2.2	2.4	2.4	A	2.5	2.31	2.48
11-Feb-07	2.6	2.3	2.3	2.4	2.4	2.4	2.3	2.2	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.4	A	2.3	2.3	2.23	2.55
12-Feb-07	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	A	2.2	2.2	2.2	2.17	2.29
13-Feb-07	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.3	2.5	2.4	2.6	2.22	2.60
14-Feb-07	2.5	2.5	2.7	2.7	2.5	2.4	2.4	2.6	2.6	2.6	2.5	2.6	2.4	2.4	2.5	2.4	2.3	2.1	A	2.0	2.0	2.0	2.0	2.0	2.37	2.74
15-Feb-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	1.9	A	1.9	1.9	1.8	1.8	1.8	1.9	1.99	2.12
16-Feb-07	2.0	2.1	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.17	2.40
17-Feb-07	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.03	2.16
18-Feb-07	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	1.93	2.06
19-Feb-07	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.03	2.21
20-Feb-07	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.1	2.3	2.4	1.97	2.39
21-Feb-07	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.5	2.3	2.2	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.16	2.46
22-Feb-07	2.1	2.1	2.3	2.3	2.5	2.5	2.7	2.6	2.6	2.5	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.1	2.0	2.1	2.2	2.20	2.65
23-Feb-07	2.1	2.1	A	2.2	2.3	2.2	2.2	2.2	2.3	C	C	A	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.5	3.0	2.26	2.97
24-Feb-07	2.8	2.5	A	2.5	2.4	2.4	2.4	2.5	2.7	2.6	2.6	2.1	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.21	2.75
25-Feb-07	2.3	A	2.1	2.2	2.1	2.0	2.0	2.0	2.1	2.1	2.0	1.9	1.9	1.8	1.9	1.8	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.02	2.27
26-Feb-07	A	2.1	2.1	2.1	2.4	2.3	2.1	2.1	2.1	2.3	2.4	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	A	2.15	2.40
27-Feb-07	2.2	2.3	2.4	2.3	2.3	2.2	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.3	2.4	2.3	2.1	2.1	2.1	2.1	2.1	A	2.1	2.26	2.44
28-Feb-07	2.2	2.3	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	A	2.1	2.1	2.15	2.32
Hourly Avg	2.22	2.20	2.22	2.23	2.25	2.24	2.23	2.25	2.25	2.23	2.21	2.15	2.12	2.10	2.11	2.09	2.10	2.10	2.14	2.12	2.16	2.18	2.17	2.23		
Hourly Max	2.75	2.54	2.74	2.73	2.49	2.53	2.65	2.61	2.65	2.57	2.71	2.61	2.54	2.40	2.47	2.42	2.31	2.37	2.93	2.53	2.57	2.76	2.66	2.97		

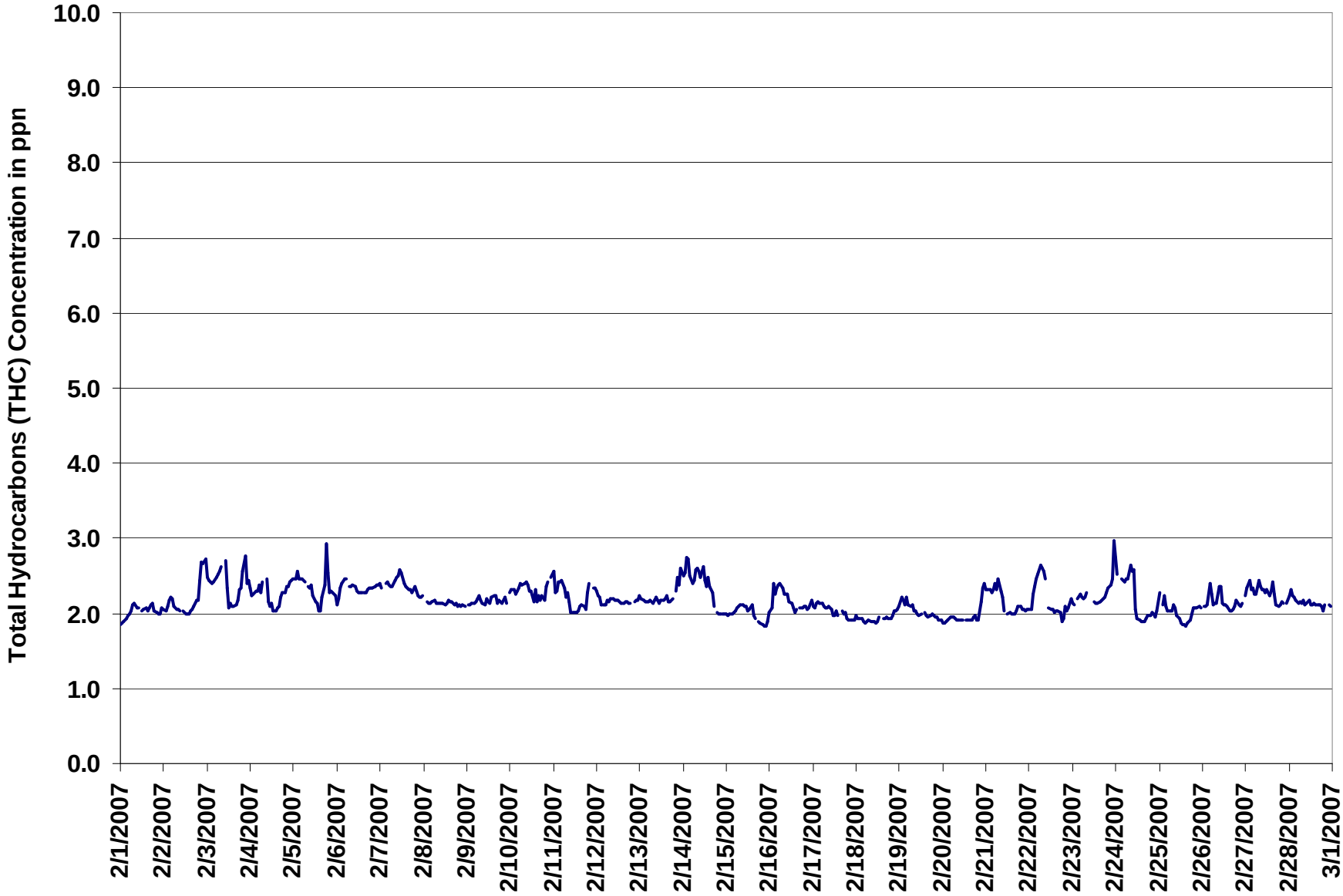


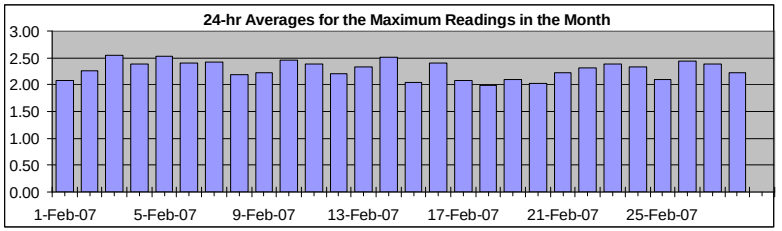
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Value:	6.1	ppm	16-Feb	2:00 3:00
Maximum 24-hr Value:	2.6	ppm	3-Feb	

AIC Time:	31 hrs	Operational Time:	639 hrs	
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%	

Percentile	99	95	75	50	25	5	1	Average	Median
	3.1	2.7	2.4	2.2	2.1	1.9	1.9	2.3 ppm	2.2 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

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-Feb-07	1.9	1.9	1.9	2.0	2.0	2.0	2.2	2.2	2.2	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.1	2.0	2.0	2.0	2.1	2.09	2.29
2-Feb-07	2.1	2.1	2.2	2.3	2.3	2.3	2.2	2.1	2.1	2.1	A	2.1	2.0	2.0	2.1	2.1	2.1	2.2	2.3	2.3	2.6	2.9	2.8	2.8	2.26	2.92
3-Feb-07	2.8	2.5	2.5	2.4	3.0	2.8	2.6	2.7	2.7	A	2.8	2.9	2.2	2.2	2.2	2.2	2.1	2.3	2.5	2.4	3.1	3.0	2.5	2.5	2.55	3.10
4-Feb-07	2.6	2.3	2.3	2.4	2.4	2.5	2.5	2.5	A	2.8	2.3	2.3	2.4	2.1	2.1	2.1	2.2	2.3	2.4	2.3	2.4	2.5	2.5	2.5	2.38	2.77
5-Feb-07	2.5	2.6	2.7	2.5	2.7	2.7	2.6	A	2.5	2.4	2.4	2.3	2.4	2.3	2.1	2.1	2.5	2.6	3.7	3.1	2.4	2.4	2.3	2.3	2.53	3.72
6-Feb-07	2.2	2.3	2.4	2.5	2.6	2.6	A	2.4	2.4	2.4	2.4	2.4	2.3	2.6	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.40	2.65
7-Feb-07	2.4	2.4	A	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.2	2.2	2.42	2.64
8-Feb-07	2.3	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.1	2.3	2.1	2.2	2.1	2.19	2.30
9-Feb-07	A	2.2	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.3	2.2	2.2	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.4	2.3	A	2.23	2.42
10-Feb-07	2.3	2.4	2.4	2.4	2.3	2.4	2.6	2.7	2.7	2.7	2.5	2.4	2.4	2.3	2.5	2.3	2.5	2.2	2.3	2.2	2.5	2.7	A	2.6	2.46	2.74
11-Feb-07	2.9	2.6	2.4	2.7	2.8	2.6	2.6	2.3	2.6	2.3	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.4	2.4	A	2.4	2.4	2.38	2.93
12-Feb-07	2.4	2.3	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.2	2.20	2.36
13-Feb-07	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.4	2.5	2.2	2.3	2.4	A	2.5	2.8	2.5	2.7	2.33	2.78
14-Feb-07	2.6	2.7	3.1	3.0	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.5	2.6	2.5	2.3	2.3	A	2.1	2.0	2.0	2.0	2.0	2.50	3.09
15-Feb-07	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.3	2.1	2.0	A	1.9	1.9	1.9	1.8	1.9	2.0	2.04	2.34
16-Feb-07	2.1	2.1	6.1	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.2	2.2	2.1	2.1	2.1	A	2.1	2.1	2.2	2.2	2.2	2.2	2.4	2.41	6.14
17-Feb-07	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	A	2.1	2.1	2.1	2.0	2.0	1.9	2.0	2.0	2.08	2.18
18-Feb-07	2.1	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	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	1.98	2.18
19-Feb-07	2.2	2.3	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.0	2.0	2.0	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.10	2.33
20-Feb-07	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.1	2.1	2.0	2.0	2.3	2.4	2.4	2.02	2.44
21-Feb-07	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.6	2.3	2.3	2.1	A	2.1	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.1	2.1	2.1	2.1	2.22	2.60
22-Feb-07	2.1	2.1	2.5	2.6	2.5	2.9	2.9	2.7	2.7	2.6	A	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.3	2.2	2.1	2.4	2.32	2.92
23-Feb-07	2.5	2.3	A	2.3	2.3	2.3	2.3	2.4	2.4	C	C	A	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.5	2.5	2.6	3.3	2.38	3.30
24-Feb-07	3.0	2.7	A	2.5	2.5	2.5	2.5	2.7	2.8	2.7	2.8	2.4	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.6	2.32	3.01
25-Feb-07	2.7	A	2.3	2.4	2.2	2.1	2.1	2.1	2.3	2.2	2.0	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.11	2.69
26-Feb-07	A	2.1	2.1	2.2	3.7	3.7	2.2	2.3	2.2	3.3	3.1	2.8	2.2	2.2	2.2	2.1	2.0	2.1	2.2	2.2	2.2	2.2	2.3	A	2.43	3.68
27-Feb-07	2.3	2.4	2.6	2.7	2.5	2.4	2.4	2.6	2.4	2.4	2.3	2.3	2.4	2.3	2.5	2.6	2.4	2.2	2.1	2.2	2.3	2.3	A	2.2	2.39	2.67
28-Feb-07	2.5	2.5	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.0	2.2	A	2.2	2.1	2.23	2.52
Hourly Avg	2.35	2.27	2.45	2.34	2.39	2.39	2.33	2.34	2.34	2.35	2.31	2.27	2.20	2.17	2.19	2.17	2.18	2.19	2.25	2.20	2.25	2.29	2.24	2.33		
Hourly Max	3.01	2.68	6.14	3.04	3.67	3.68	2.92	2.72	2.81	3.33	3.13	2.85	2.75	2.65	2.63	2.56	2.49	2.59	3.72	3.15	3.10	3.03	2.82	3.30		

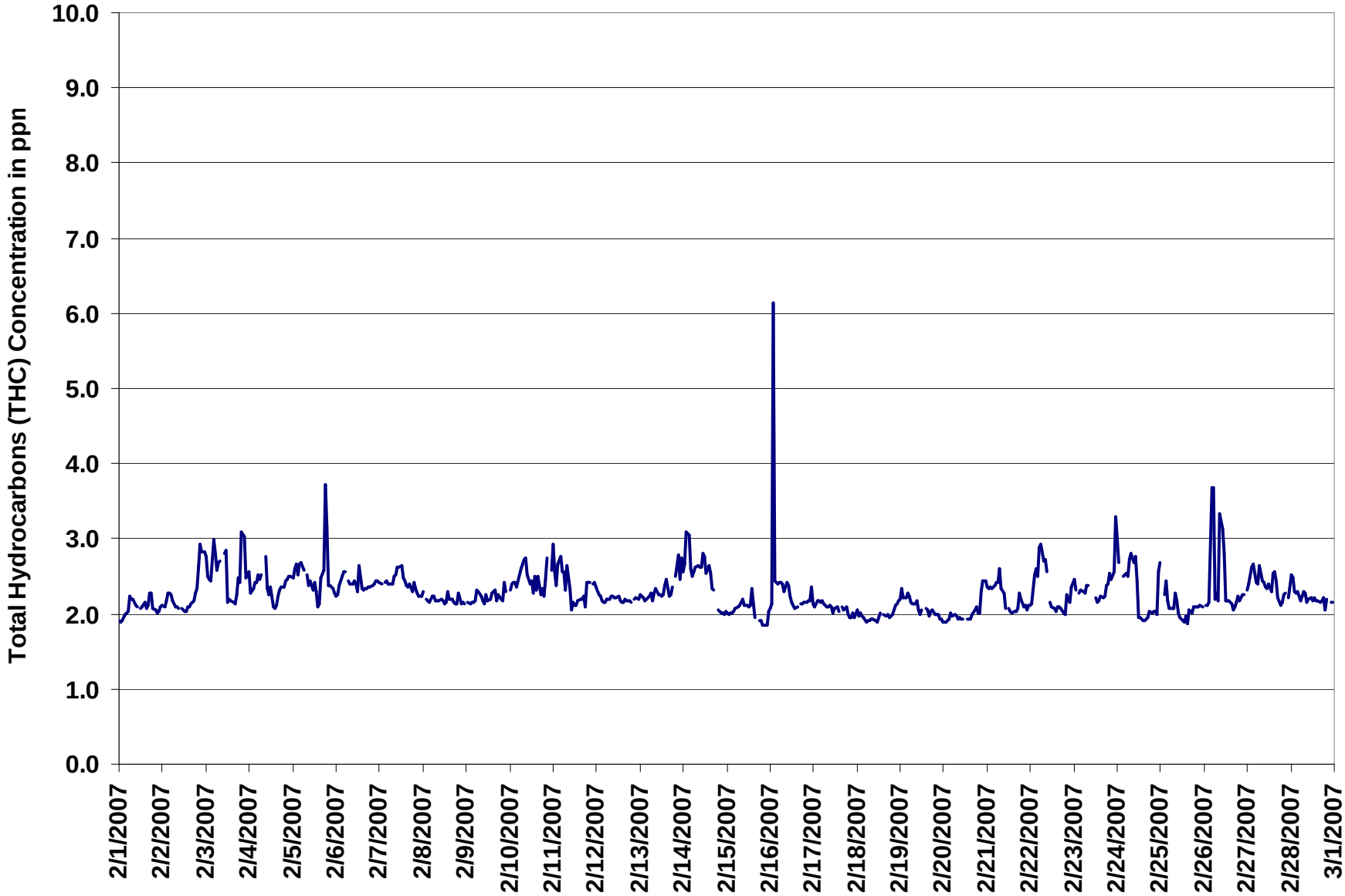
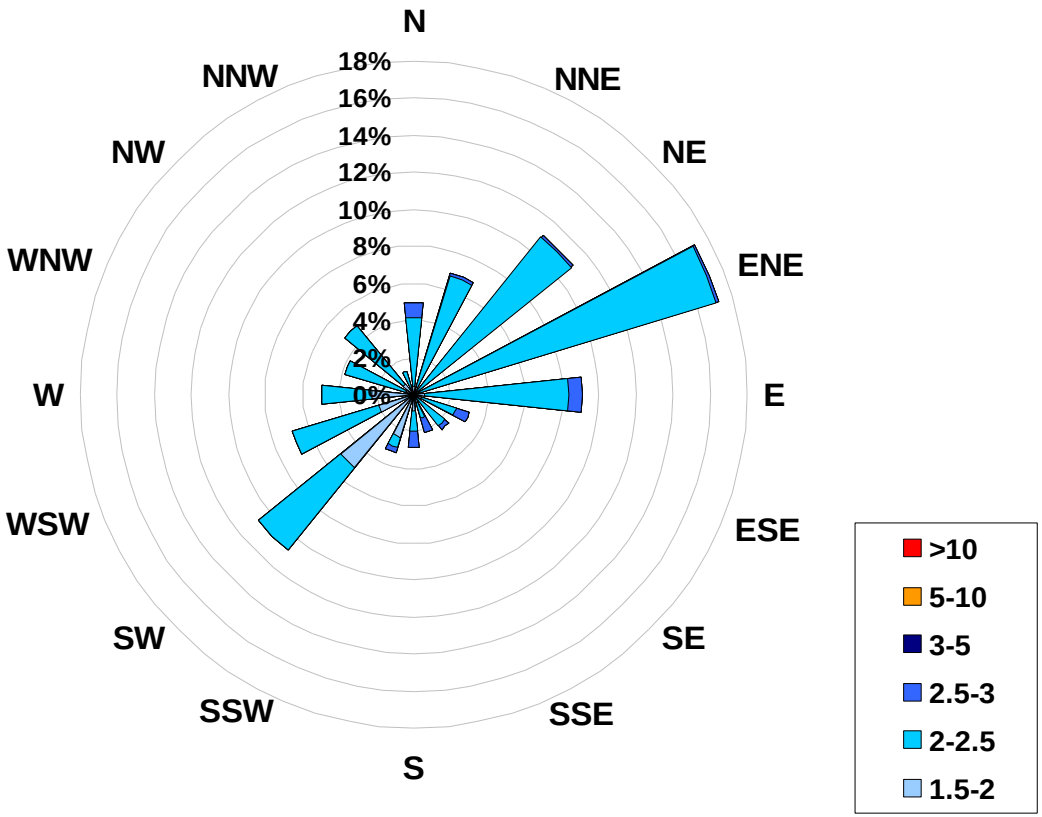


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for February 2007



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	111
2	to	2.5	495
2.5	to	3	33
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			639

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

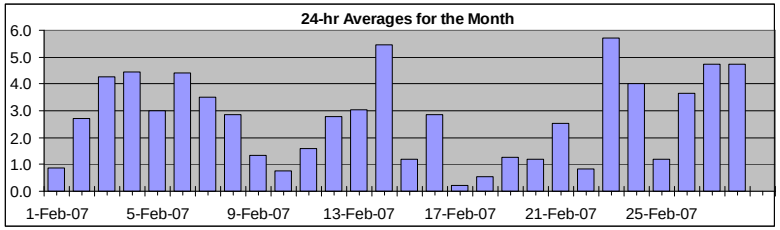
Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: February 1, 2007 to March 1, 2007

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:	17.3	µg/m³	23-Feb	23:00 0:00
Maximum 24-hr Value:	5.7	µg/m³	23-Feb	

AIC Time:	0 hrs	Operational Time:	667 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	10.4	7.2	4.0	2.2	0.7	0.0	0.0	2.7 / 2 µg/m³	2.1 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-Feb-07	1	1	0	2	2	3	4	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	3.5
2-Feb-07	0	1	3	2	3	2	3	1	3	1	1	0	0	1	1	1	2	2	2	4	6	8	11	9	2.7	10.6
3-Feb-07	4	5	4	5	4	4	3	3	6	5	6	2	1	1	2	2	2	4	6	6	8	5	6	5	4.3	8.0
4-Feb-07	2	0	7	3	1	3	4	8	4	5	4	3	5	4	4	5	5	6	7	5	4	5	6	4	4.4	8.4
5-Feb-07	4	3	2	2	1	2	2	1	1	1	3	1	1	1	2	3	3	4	6	6	4	6	8	6	3.0	7.9
6-Feb-07	6	5	7	5	5	5	4	4	4	3	3	2	2	3	6	4	4	5	5	5	6	5	4	5	4.4	7.2
7-Feb-07	4	3	4	4	5	2	4	4	4	4	4	3	4	4	3	3	3	3	4	2	3	3	3	4	3.5	4.5
8-Feb-07	3	3	3	2	3	3	3	4	3	3	4	3	3	3	3	3	3	3	4	2	3	2	2	1	2.9	4.2
9-Feb-07	1	1	1	2	1	2	1	2	2	1	1	3	1	2	1	1	2	1	0	1	0	2	0	1	1.3	2.7
10-Feb-07	0	1	0	0	0	1	0	1	2	2	0	2	0	0	0	0	0	0	1	0	1	3	1	1	0.8	3.2
11-Feb-07	2	0	2	0	2	3	1	2	2	2	1	1	0	0	1	1	2	2	2	2	1	2	2	3	1.6	2.8
12-Feb-07	3	3	3	3	2	3	3	4	4	4	3	4	2	2	3	3	3	3	2	2	2	2	3	3	2.8	4.0
13-Feb-07	2	2	3	2	3	2	2	3	3	3	4	3	3	3	3	3	3	3	3	3	3	4	4	4	3.0	3.9
14-Feb-07	7	5	9	8	9	6	5	9	12	17	15	5	2	0	2	1	10	2	0	1	1	1	2	3	5.4	16.6
15-Feb-07	3	1	1	2	2	3	3	2	3	2	1	1	0	0	D	0	0	D	0	0	0	0	0	2	1.2	3.4
16-Feb-07	0	1	3	5	3	5	4	6	6	5	5	4	2	1	1	3	1	3	2	2	1	1	2	1	2.9	6.0
17-Feb-07	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0.2	1.3
18-Feb-07	0	0	0	0	0	0	0	0	1	1	1	2	1	1	0	0	0	0	0	0	0	1	1	2	0.6	2.3
19-Feb-07	5	2	2	1	8	7	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1.3	8.4
20-Feb-07	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	4	4	1	0	1	4	5	6	1.2	5.6
21-Feb-07	5	7	5	5	6	6	4	5	4	2	0	0	0	1	0	0	1	2	3	2	1	0	1	0	2.5	6.6
22-Feb-07	1	2	2	1	2	2	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.8	2.3
23-Feb-07	1	1	1	1	1	2	2	3	0	2	C	C	C	10	10	9	7	8	7	10	9	9	9	17	5.7	17.3
24-Feb-07	11	11	7	6	7	7	8	8	9	8	8	1	0	0	0	0	0	0	1	1	1	2	0	0	4.0	10.9
25-Feb-07	1	0	1	0	0	1	0	1	1	1	1	0	0	0	1	1	2	2	2	2	3	2	2	4	1.2	3.5
26-Feb-07	4	5	5	6	4	4	3	4	4	4	3	4	2	3	3	3	4	4	4	4	3	2	3	3	3.6	5.6
27-Feb-07	3	3	3	4	3	4	3	5	4	5	6	4	5	5	5	5	6	7	6	7	6	5	4	6	4.7	6.8
28-Feb-07	6	5	4	5	5	5	4	4	4	5	5	4	4	3	4	4	4	5	4	4	6	6	7	7	4.7	7.1
Hourly Avg	2.9	2.6	3.0	2.7	3.0	3.0	2.7	3.2	3.2	3.3	3.0	2.0	1.6	1.8	2.1	2.1	2.5	2.7	2.6	2.5	2.6	2.9	3.1	3.5		
Hourly Max	10.9	10.6	9.1	7.5	8.7	7.2	8.2	9.4	12.1	16.6	14.7	4.6	5.4	10.2	9.9	9.3	10.1	8.2	7.2	10.4	8.6	9.1	10.6	17.3		

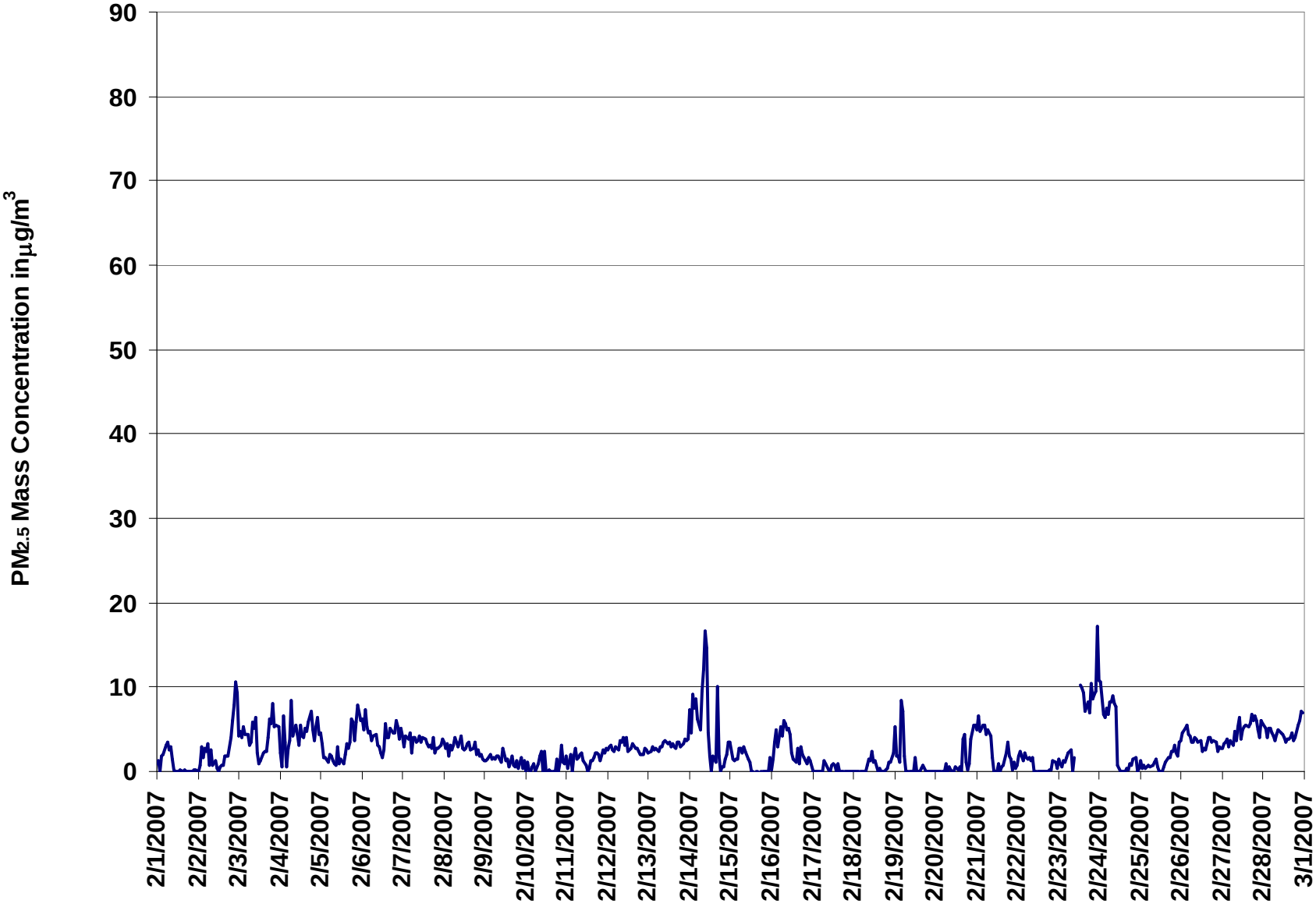


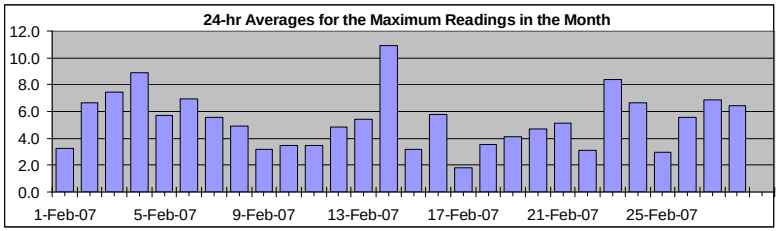
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Average:	41.9	µg/m³	14-Feb	16:00 17:00
Maximum 24-hr Value:	10.9	µg/m³	14-Feb	

AIC Time:	0 hrs	Operational Time:	667 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	19.6	11.4	6.5	4.8	3.1	1.1	0.3	5.3 5 µg/m˜	4.9 µg/m˜

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-Feb-07	4	3	3	6	5	6	7	5	5	4	3	2	4	2	2	3	2	2	3	1	1	1	3	2	3.3	6.7
2-Feb-07	2	4	7	4	5	6	6	4	5	3	5	2	2	3	4	3	4	4	4	10	8	23	25	18	6.6	25.4
3-Feb-07	8	6	5	8	6	7	6	7	9	7	9	12	3	3	4	4	5	6	11	8	16	9	10	9	7.4	15.8
4-Feb-07	6	4	24	18	5	6	7	18	7	12	9	7	8	9	7	8	7	9	9	7	6	7	8	8	8.9	23.7
5-Feb-07	8	7	4	4	3	4	4	3	3	3	5	5	5	3	4	7	5	7	10	11	6	10	10	8	5.7	10.5
6-Feb-07	10	7	11	8	6	7	7	8	6	5	6	4	4	9	9	6	5	6	7	7	7	7	6	6	6.9	11.4
7-Feb-07	5	5	6	5	7	4	6	6	5	7	7	6	6	5	5	5	5	6	6	5	5	5	5	6	5.6	7.5
8-Feb-07	6	5	5	4	5	5	6	6	5	5	5	4	5	4	5	5	5	5	5	5	5	4	4	3	4.9	6.2
9-Feb-07	3	3	3	4	3	4	3	4	4	3	2	5	3	3	2	3	4	2	2	4	2	3	2	4	3.2	4.7
10-Feb-07	2	3	3	1	2	2	2	2	5	5	2	6	3	3	4	4	4	4	4	3	6	7	3	3	3.5	7.1
11-Feb-07	4	2	4	2	5	5	3	3	4	4	3	3	2	2	3	3	4	5	4	3	3	4	4	5	3.5	4.9
12-Feb-07	4	5	5	5	5	5	4	6	5	6	5	6	5	6	5	5	4	4	3	4	4	5	4	4	4.8	6.0
13-Feb-07	4	5	6	4	4	6	4	5	5	7	6	6	6	6	7	6	5	5	6	5	5	6	6	6	5.4	6.9
14-Feb-07	14	7	15	12	11	10	12	12	19	23	21	10	6	2	7	6	42	11	2	3	3	4	5	7	10.9	41.9
15-Feb-07	6	3	4	3	4	6	8	7	5	4	4	4	2	1	D	0	0	D	0	0	1	1	2	5	3.2	8.0
16-Feb-07	5	4	6	7	6	9	6	10	9	10	7	7	5	4	3	5	5	5	5	4	4	4	4	3	5.8	10.5
17-Feb-07	3	0	1	1	1	0	1	5	3	2	1	3	3	4	2	2	2	3	2	1	1	1	1	1	1.8	5.4
18-Feb-07	2	2	1	0	1	1	2	3	4	5	5	7	8	6	7	5	4	3	4	2	2	4	3	5	3.5	7.9
19-Feb-07	18	4	3	4	12	12	6	0	1	1	2	1	7	2	3	3	3	6	3	1	1	1	1	2	4.1	18.2
20-Feb-07	2	2	3	2	2	1	10	2	3	2	2	3	3	3	4	2	17	8	6	5	3	10	9	8	4.7	16.9
21-Feb-07	8	9	6	7	7	9	6	7	6	5	0	3	3	5	3	4	4	5	9	6	4	2	3	2	5.1	9.3
22-Feb-07	3	4	5	4	5	4	4	4	4	5	3	0	0	1	1	3	1	2	1	10	2	3	3	2	3.1	10.2
23-Feb-07	4	2	3	5	4	3	4	5	2	5	C	C	C	12	13	11	10	10	10	13	12	11	11	26	8.4	25.6
24-Feb-07	16	17	9	8	10	11	11	10	11	12	11	5	1	2	2	3	2	2	2	3	3	4	1	4	6.6	16.8
25-Feb-07	3	2	4	2	2	2	2	2	3	3	2	1	2	2	2	4	3	4	5	4	5	3	3	5	3.0	5.2
26-Feb-07	5	7	7	7	6	6	6	5	6	6	5	6	5	6	4	5	7	6	5	5	5	5	6	5	5.6	7.2
27-Feb-07	5	5	5	7	6	6	5	7	8	7	9	6	7	7	8	8	7	8	7	8	8	7	6	7	6.9	9.5
28-Feb-07	7	7	6	7	7	6	6	5	6	7	6	6	6	5	5	5	6	6	5	6	8	8	8	9	6.5	9.4
Hourly Avg	5.9	4.8	5.9	5.3	5.2	5.5	5.5	5.8	5.6	6.0	5.4	4.7	4.2	4.3	4.6	4.5	6.2	5.4	5.0	5.1	4.9	5.8	5.6	6.2		
Hourly Max	18.2	16.8	23.7	18.1	11.7	12.3	12.5	17.6	19.1	23.3	20.5	11.6	7.9	12.0	13.0	10.9	41.9	11.4	11.4	12.8	15.8	22.7	25.4	25.6		

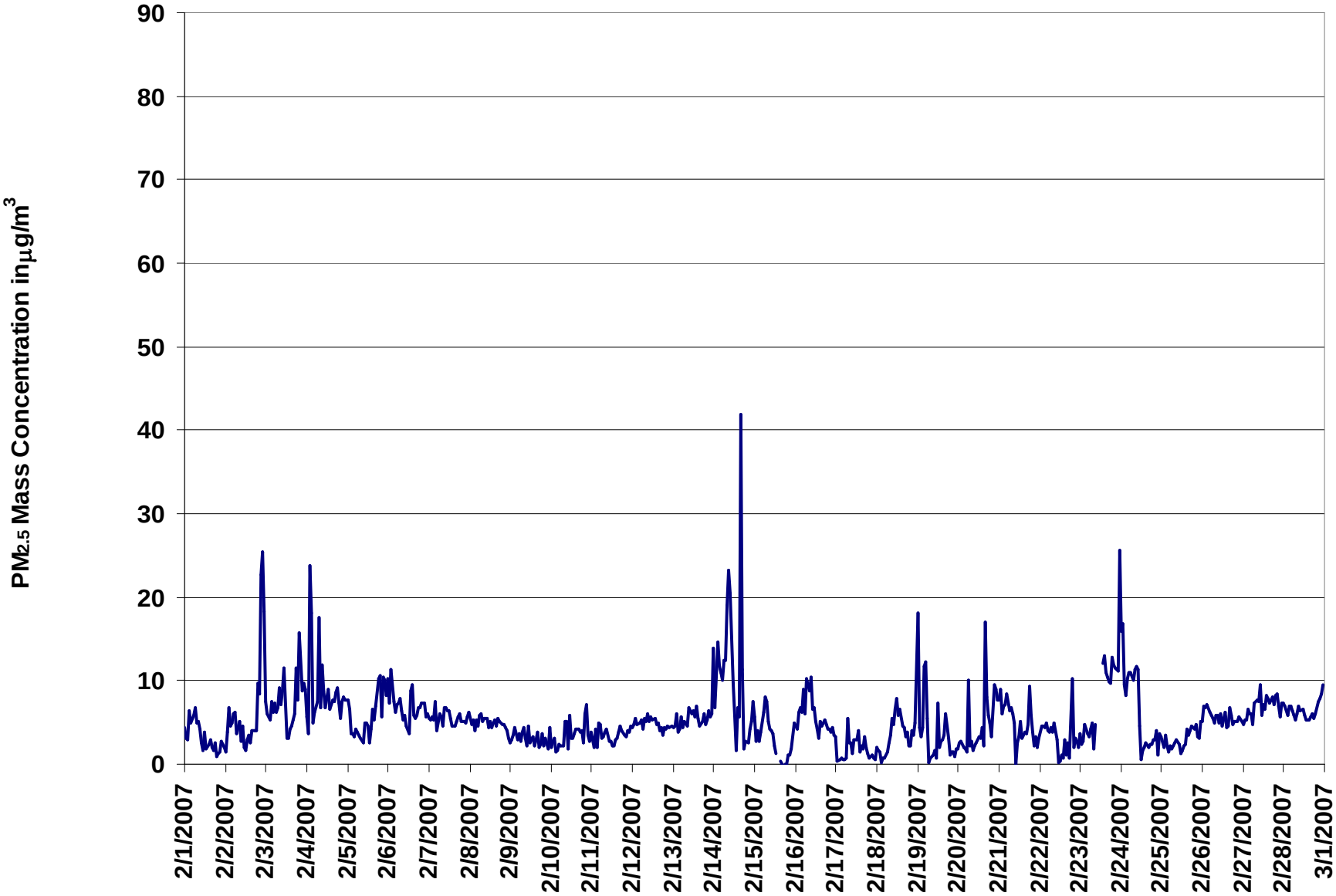
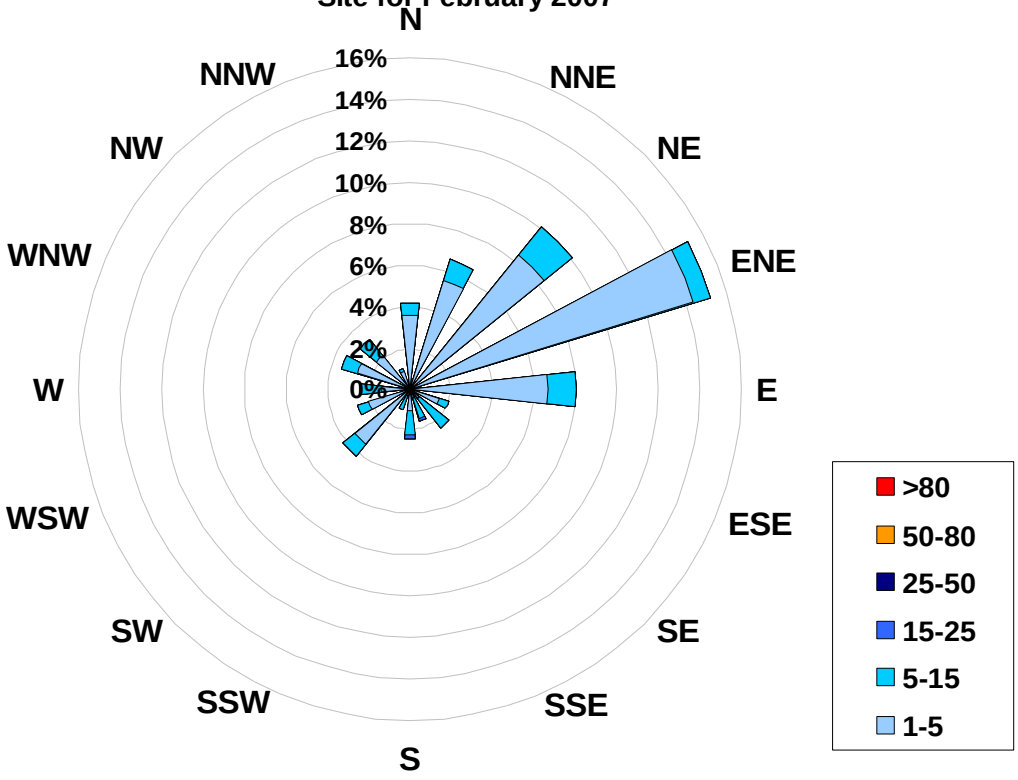


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 February 2007



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	563
5	to	15	102
15	to	25	2
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			667

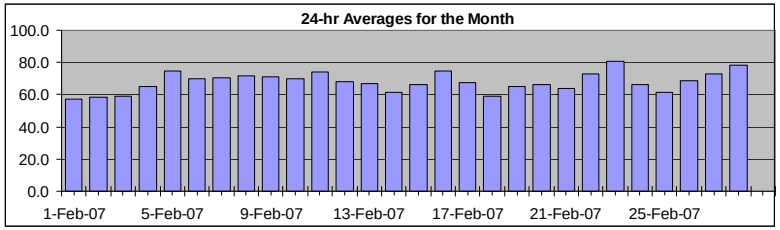
PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

HOURLY AVERAGE TABLE

Relative Humidity (RH)



Summary

Maximum 1-hr Average:	89.9	%	23-Feb	7:00 8:00
Maximum 24-hr Value:	80.8	%	23-Feb	

AIC Time:	0 hrs	Operational Time:	672 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	88.5	81.1	74.4	68.9	62.7	48.7	38.5	67.9 %	68.9 %

Status Flag Characters

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

Day **Mountain Standard Time**

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-Feb-07	82	75	57	54	57	62	62	63	65	56	54	49	46	42	41	42	43	49	56	61	64	65	66	66	57.4	82.0
2-Feb-07	65	66	69	71	71	67	63	61	61	54	49	46	41	40	43	44	49	53	59	61	63	69	71	70	58.6	70.9
3-Feb-07	68	67	67	68	69	72	73	72	67	65	59	46	38	38	39	39	38	49	55	61	65	66	67	68	59.0	73.0
4-Feb-07	67	66	65	65	65	65	65	67	65	65	62	62	60	61	58	60	61	62	63	69	71	71	73	73	65.0	72.7
5-Feb-07	74	75	76	76	77	79	78	77	77	75	69	66	63	63	63	66	71	77	81	81	82	82	82	81	74.6	81.9
6-Feb-07	78	78	73	72	69	68	69	69	71	71	70	68	65	66	65	67	68	68	69	71	71	71	70	70	69.9	78.4
7-Feb-07	70	71	71	71	73	73	72	72	73	71	70	69	67	67	67	68	69	71	71	71	71	71	71	71	70.5	73.0
8-Feb-07	71	72	72	72	72	73	73	73	72	71	71	69	68	68	70	71	71	73	73	74	74	74	74	73	71.7	73.9
9-Feb-07	73	72	72	72	72	72	71	72	71	69	66	64	65	65	65	69	73	75	75	75	75	75	75	75	71.1	75.4
10-Feb-07	74	74	74	75	76	75	75	76	74	69	64	61	58	55	59	56	63	71	74	76	78	76	75	76	70.1	77.6
11-Feb-07	77	77	77	77	78	77	76	76	75	73	70	68	67	69	71	74	74	75	76	76	76	75	75	75	74.3	77.6
12-Feb-07	74	74	73	73	73	73	72	71	70	66	64	62	61	60	60	61	65	68	68	69	68	67	68	68	67.8	74.2
13-Feb-07	67	68	69	69	70	70	70	70	69	67	64	61	59	59	61	62	64	67	69	72	72	70	69	68	67.0	72.5
14-Feb-07	66	65	64	63	63	63	62	61	62	64	66	66	64	55	50	50	55	59	61	62	63	63	64	65	61.5	66.4
15-Feb-07	66	66	68	70	71	71	73	73	72	71	69	66	64	61	62	62	62	62	62	67	70	62	60	64	66.5	73.2
16-Feb-07	68	71	77	78	78	81	79	80	81	81	74	71	68	65	66	68	68	67	73	72	77	78	81	87	74.5	86.8
17-Feb-07	83	80	78	78	75	73	70	66	63	60	57	59	62	62	59	62	65	68	70	67	68	69	67	62	67.6	83.0
18-Feb-07	59	59	60	59	52	50	52	53	51	55	60	60	57	63	62	61	62	59	60	61	62	65	70	72	59.3	72.2
19-Feb-07	74	80	86	87	88	89	89	78	67	65	59	46	46	49	45	38	46	56	61	61	60	62	62	64	64.8	88.6
20-Feb-07	63	65	66	63	66	68	68	66	63	60	52	51	53	54	56	50	56	87	89	79	76	80	79	79	66.2	88.5
21-Feb-07	78	80	80	81	81	84	84	83	78	68	59	52	46	42	37	34	35	45	54	61	64	64	66	70	63.6	84.3
22-Feb-07	70	72	76	78	79	79	80	80	78	76	73	66	64	67	67	67	69	73	67	69	71	73	75	75	72.7	80.3
23-Feb-07	78	81	88	89	89	90	90	90	88	86	83	79	71	70	70	69	70	71	76	80	83	84	83	81	80.8	89.9
24-Feb-07	80	78	77	76	76	75	77	77	78	80	71	55	53	51	48	48	53	60	61	61	63	65	63	63	66.3	80.5
25-Feb-07	68	67	63	67	65	66	68	67	63	60	54	47	45	48	51	52	57	64	70	72	68	64	60	63	61.2	71.5
26-Feb-07	66	70	72	73	73	73	73	72	67	62	63	61	61	60	59	63	69	73	73	73	73	74	74	75	68.9	74.6
27-Feb-07	74	74	74	74	74	75	75	75	73	67	60	64	63	66	68	71	74	76	77	77	78	79	79	80	72.8	80.1
28-Feb-07	80	80	80	80	80	82	81	81	81	79	78	77	77	76	75	75	76	77	77	76	77	78	78	75	78.2	81.8
Hourly Avg	71.9	72.2	72.3	72.5	72.6	73.0	72.9	72.2	70.5	68.0	64.7	61.1	59.1	58.5	58.4	58.9	61.7	66.3	68.6	69.8	70.8	71.1	71.3	71.7		
Hourly Max	83.0	80.6	87.9	88.9	89.2	89.6	89.9	89.9	87.9	85.9	83.5	79.1	76.5	75.8	75.2	75.3	76.2	87.0	88.5	81.0	82.6	84.3	83.4	86.8		

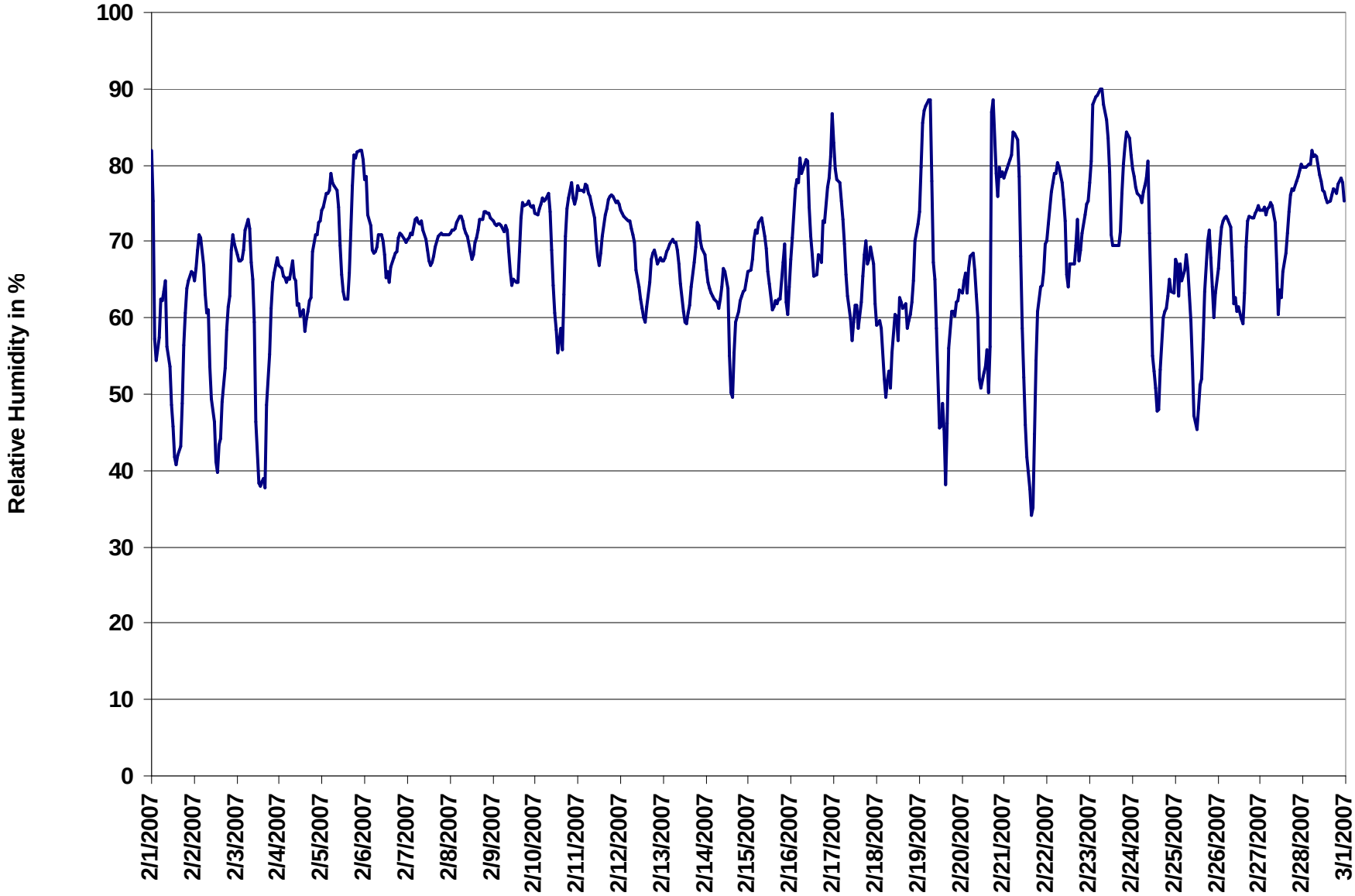


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend

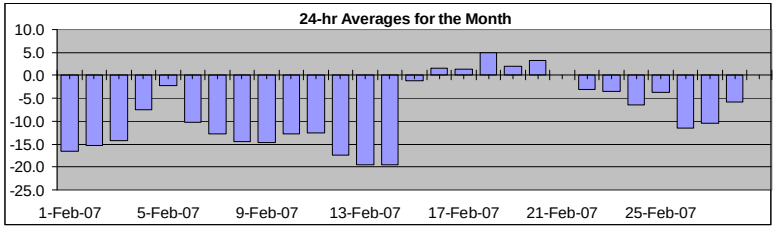
PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

HOURLY AVERAGE TABLE

Ambient Temperature (T)



Summary

Maximum 1-hr Average:	8.7	°C	20-Feb	15:00 16:00
Maximum 24-hr Value:	5.0	°C	18-Feb	

AIC Time:	0 hrs	Operational Time:	672 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	7.5	5.1	-1.0	-8.3	-14.6	-20.0	-28.5	-8.0 °C	-8.3 °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-Feb-07	-7	-10	-10	-11	-14	-17	-19	-20	-21	-19	-18	-17	-16	-15	-15	-14	-15	-17	-19	-20	-21	-21	-21	-21	-16.6	-6.9
2-Feb-07	-19	-20	-18	-18	-18	-18	-17	-16	-15	-14	-13	-12	-11	-10	-10	-11	-12	-13	-15	-15	-16	-18	-19	-19	-15.3	-10.2
3-Feb-07	-20	-19	-19	-18	-18	-19	-19	-19	-17	-15	-12	-9	-8	-7	-7	-7	-6	-10	-11	-14	-16	-17	-17	-18	-14.3	-6.5
4-Feb-07	-18	-19	-18	-17	-16	-15	-14	-14	-12	-9	-4	-3	-1	0	1	1	1	-1	-2	-3	-4	-4	-4	-5	-7.6	1.4
5-Feb-07	-5	-5	-5	-5	-6	-6	-6	-6	-6	-5	-2	0	2	3	4	3	2	0	-1	-1	-2	-2	-2	-1	-2.2	3.9
6-Feb-07	1	-3	-7	-10	-11	-11	-12	-12	-12	-12	-11	-11	-11	-11	-11	-11	-11	-11	-11	-12	-12	-12	-12	-12	-10.3	0.8
7-Feb-07	-12	-12	-12	-12	-12	-12	-13	-13	-13	-13	-12	-12	-11	-11	-11	-12	-13	-14	-14	-14	-15	-16	-15	-15	-12.9	-10.9
8-Feb-07	-15	-15	-15	-15	-15	-15	-15	-15	-16	-15	-14	-14	-13	-13	-13	-13	-13	-14	-14	-14	-15	-15	-15	-15	-14.5	-12.7
9-Feb-07	-16	-16	-16	-15	-15	-15	-16	-16	-16	-16	-15	-14	-13	-13	-12	-13	-13	-14	-14	-14	-15	-15	-15	-15	-14.6	-12.3
10-Feb-07	-15	-14	-14	-15	-15	-15	-15	-16	-15	-13	-13	-10	-9	-7	-7	-6	-9	-12	-13	-14	-15	-15	-14	-14	-12.8	-6.4
11-Feb-07	-15	-14	-14	-14	-15	-14	-14	-13	-12	-11	-11	-10	-10	-10	-10	-11	-11	-12	-12	-13	-13	-14	-14	-15	-12.6	-10.0
12-Feb-07	-15	-16	-16	-16	-17	-17	-17	-18	-18	-18	-17	-16	-16	-16	-15	-16	-17	-18	-19	-20	-20	-21	-21	-21	-17.5	-15.3
13-Feb-07	-21	-21	-21	-21	-20	-20	-20	-20	-20	-19	-18	-17	-16	-16	-17	-17	-17	-18	-18	-19	-21	-23	-24	-26	-19.5	-16.2
14-Feb-07	-27	-29	-29	-30	-30	-30	-30	-31	-29	-24	-22	-21	-17	-14	-13	-12	-12	-10	-10	-11	-10	-10	-9	-8	-19.5	-8.2
15-Feb-07	-6	-5	-5	-6	-7	-7	-9	-9	-8	-7	-5	-2	1	3	4	4	5	5	5	4	3	6	6	5	-1.1	5.7
16-Feb-07	3	2	-1	-1	-2	-2	-1	-1	0	1	2	4	4	5	4	4	4	4	3	3	2	2	1	0	1.6	4.9
17-Feb-07	-1	-1	-2	-4	-4	-5	-5	-4	-3	-1	2	3	4	6	6	6	5	4	4	4	4	4	4	5	1.3	6.4
18-Feb-07	5	5	4	4	5	6	5	5	6	6	6	7	9	7	7	6	6	5	4	4	3	2	1	1	5.0	8.7
19-Feb-07	1	-1	-1	-1	-1	-1	-3	-3	-1	0	3	5	6	5	6	7	6	3	2	2	2	2	2	2	1.9	7.2
20-Feb-07	3	3	2	3	2	2	1	2	4	5	8	8	8	9	8	9	6	1	1	2	2	0	-3	-4	3.3	8.7
21-Feb-07	-4	-4	-3	-3	-3	-4	-3	-4	-3	0	2	3	5	5	6	7	6	4	2	0	-1	-1	-1	-2	0.1	6.5
22-Feb-07	-3	-4	-4	-5	-6	-7	-9	-10	-9	-7	-4	-2	-1	-2	-2	-1	-1	-1	1	1	1	1	1	1	-3.0	1.1
23-Feb-07	1	1	0	-1	-1	-1	-1	-1	-2	-3	-3	-3	-2	-2	-2	-3	-3	-4	-6	-7	-8	-9	-10	-12	-3.4	0.8
24-Feb-07	-14	-15	-16	-17	-17	-17	-17	-15	-12	-8	-3	1	2	4	4	5	3	0	-2	-4	-4	-5	-4	-5	-6.5	4.7
25-Feb-07	-7	-7	-6	-8	-7	-7	-7	-6	-4	-3	0	3	4	4	3	3	1	-1	-4	-6	-7	-8	-8	-10	-3.7	4.4
26-Feb-07	-11	-12	-13	-14	-15	-15	-15	-16	-14	-12	-11	-10	-9	-7	-7	-7	-8	-10	-10	-11	-11	-11	-12	-13	-11.4	-6.5
27-Feb-07	-13	-14	-15	-14	-14	-14	-15	-15	-15	-13	-10	-9	-7	-8	-8	-8	-8	-7	-8	-8	-8	-8	-8	-8	-10.6	-7.4
28-Feb-07	-8	-8	-7	-7	-7	-8	-7	-7	-7	-6	-5	-5	-4	-4	-3	-3	-4	-4	-5	-5	-6	-6	-6	-6	-5.9	-3.4
Hourly Avg	-9.2	-9.7	-10.1	-10.4	-10.7	-10.9	-11.2	-11.2	-10.4	-8.9	-7.2	-5.8	-4.7	-4.2	-3.9	-3.9	-4.6	-5.9	-6.8	-7.4	-8.0	-8.3	-8.6	-9.0		
Hourly Max	5.4	4.9	4.2	3.9	5.1	5.9	5.4	5.0	6.0	6.3	7.6	8.3	8.7	8.6	8.1	8.7	6.2	5.0	4.7	4.3	4.2	5.7	5.7	5.0		

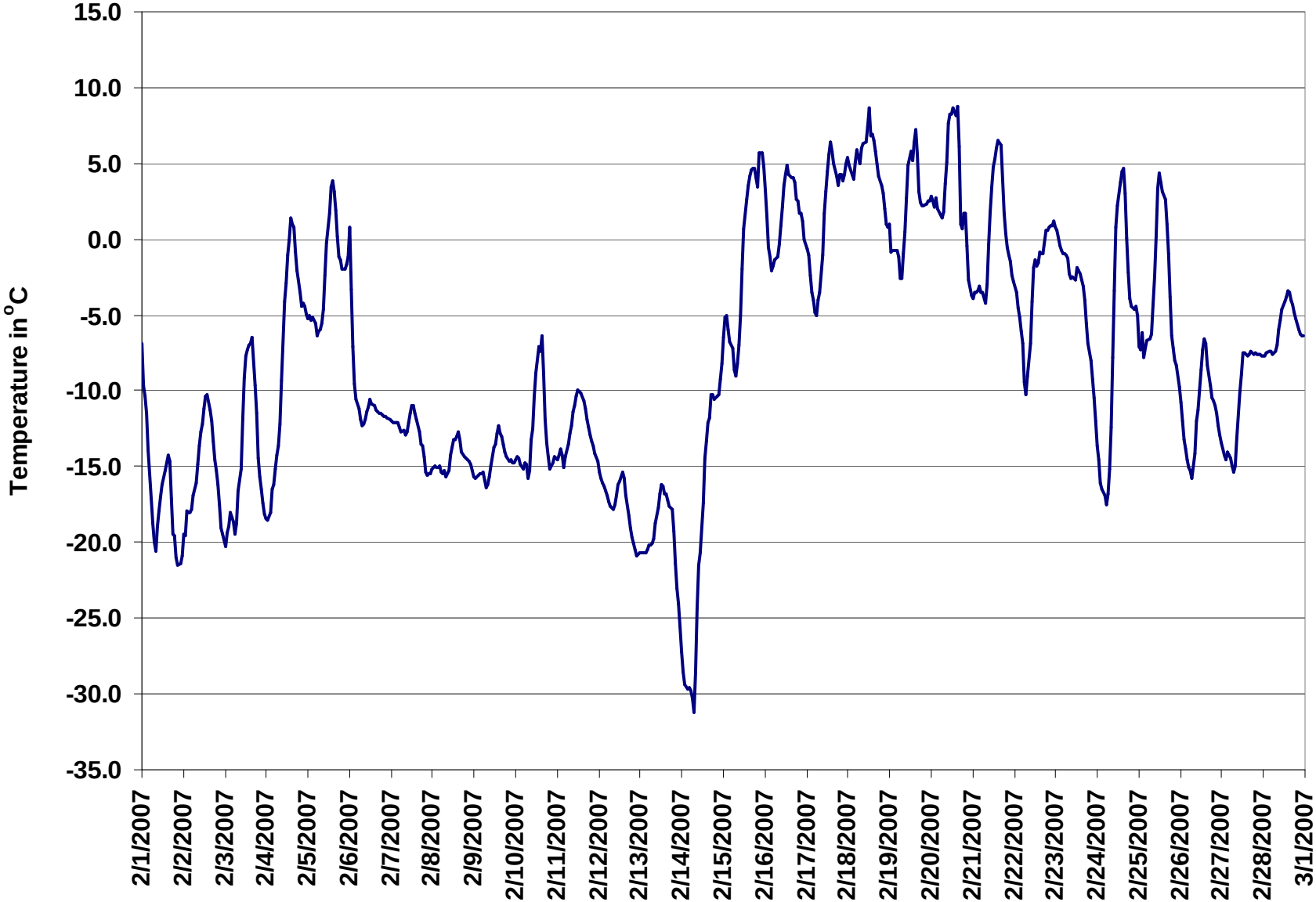


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend

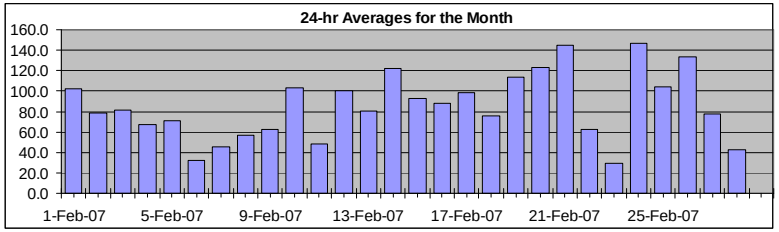
PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: February 1, 2007 to March 1, 2007



Summary

Maximum 1-hr Average:	569.4	W/m²	26-Feb	13:00 14:00
Maximum 24-hr Value:	146.6	W/m²	24-Feb	

AIC Time:	0 hrs	Operational Time:	672 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	525.0	409.3	135.1	0.1	0.0	0.0	0.0	85.2 W/m²	0.1 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-Feb-07	0	0	0	0	0	0	0	1	58	202	323	411	431	424	307	195	106	6	0	0	0	0	0	0	102.7	430.9
2-Feb-07	0	0	0	0	0	0	0	2	40	125	215	248	367	420	270	141	59	4	0	0	0	0	0	0	78.8	419.6
3-Feb-07	0	0	0	0	0	0	0	4	83	123	202	275	325	299	297	222	125	4	0	0	0	0	0	0	81.6	324.6
4-Feb-07	0	0	0	0	0	0	0	1	27	95	253	244	282	254	278	124	60	6	0	0	0	0	0	0	67.6	282.2
5-Feb-07	0	0	0	0	0	0	0	1	25	81	169	277	425	365	224	91	45	4	0	0	0	0	0	0	71.1	425.4
6-Feb-07	0	0	0	0	0	0	0	0	21	67	113	139	175	111	88	47	20	2	0	0	0	0	0	0	32.6	174.6
7-Feb-07	0	0	0	0	0	0	0	1	29	76	136	184	203	204	139	81	34	4	0	0	0	0	0	0	45.4	203.6
8-Feb-07	0	0	0	0	0	0	0	1	31	90	159	217	238	213	175	156	80	9	0	0	0	0	0	0	57.1	238.3
9-Feb-07	0	0	0	0	0	0	0	2	60	133	189	244	221	287	211	111	39	9	0	0	0	0	0	0	62.7	286.5
10-Feb-07	0	0	0	0	0	0	0	3	73	148	320	378	408	463	305	233	135	12	0	0	0	0	0	0	103.3	462.7
11-Feb-07	0	0	0	0	0	0	0	2	33	92	129	182	191	178	169	123	45	5	0	0	0	0	0	0	47.9	190.7
12-Feb-07	0	0	0	0	0	0	0	4	67	213	303	394	315	390	337	257	125	12	0	0	0	0	0	0	100.7	393.7
13-Feb-07	0	0	0	0	0	0	0	3	49	125	218	330	345	321	251	182	96	10	0	0	0	0	0	0	80.5	344.7
14-Feb-07	0	0	0	0	0	0	0	7	108	255	364	451	499	496	368	247	117	18	0	0	0	0	0	0	122.0	499.0
15-Feb-07	0	0	0	0	0	0	0	11	83	177	277	434	397	367	268	138	65	18	0	0	0	0	0	0	93.1	433.6
16-Feb-07	0	0	0	0	0	0	0	2	31	137	299	367	385	366	220	150	112	33	0	0	0	0	0	0	87.6	384.7
17-Feb-07	0	0	0	0	0	0	0	10	125	269	383	451	399	316	204	136	52	8	0	0	0	0	0	0	98.0	450.7
18-Feb-07	0	0	0	0	0	0	0	6	65	160	328	488	417	85	144	87	24	14	0	0	0	0	0	0	75.8	488.3
19-Feb-07	0	0	0	0	0	0	0	17	140	200	208	380	513	509	338	318	98	15	0	0	0	0	0	0	114.0	513.0
20-Feb-07	0	0	0	0	0	0	0	10	119	292	419	467	454	496	255	270	165	4	0	0	0	0	0	0	123.0	495.9
21-Feb-07	0	0	0	0	0	0	0	22	188	322	431	511	531	523	372	335	197	33	0	0	0	0	0	0	144.4	531.0
22-Feb-07	0	0	0	0	0	0	0	12	60	139	217	258	181	118	211	175	106	21	0	0	0	0	0	0	62.5	257.8
23-Feb-07	0	0	0	0	0	0	0	1	14	30	44	62	112	99	98	67	137	47	1	0	0	0	0	0	29.7	136.9
24-Feb-07	0	0	0	0	0	0	0	14	130	299	431	536	560	550	435	364	168	29	1	0	0	0	0	0	146.6	560.4
25-Feb-07	0	0	0	0	0	0	0	28	95	220	397	530	473	286	228	157	72	22	1	0	0	0	0	0	104.6	529.9
26-Feb-07	0	0	0	0	0	0	0	29	183	336	344	410	566	569	441	245	64	21	1	0	0	0	0	0	133.8	569.4
27-Feb-07	0	0	0	0	0	0	0	12	69	233	316	327	329	238	156	101	54	16	1	0	0	0	0	0	77.2	329.0
28-Feb-07	0	0	0	0	0	0	0	11	49	81	118	147	150	145	135	92	63	20	0	0	0	0	0	0	42.2	150.4
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	73.4	168.6	260.9	333.6	353.3	324.7	247.2	173.0	87.9	14.5	0.2	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.3	0.3	0.3	0.1	0.1	0.1	0.2	29.0	188.5	335.9	431.1	536.2	566.1	569.4	441.3	364.0	196.5	47.4	0.8	0.1	0.1	0.3	0.3	0.3		

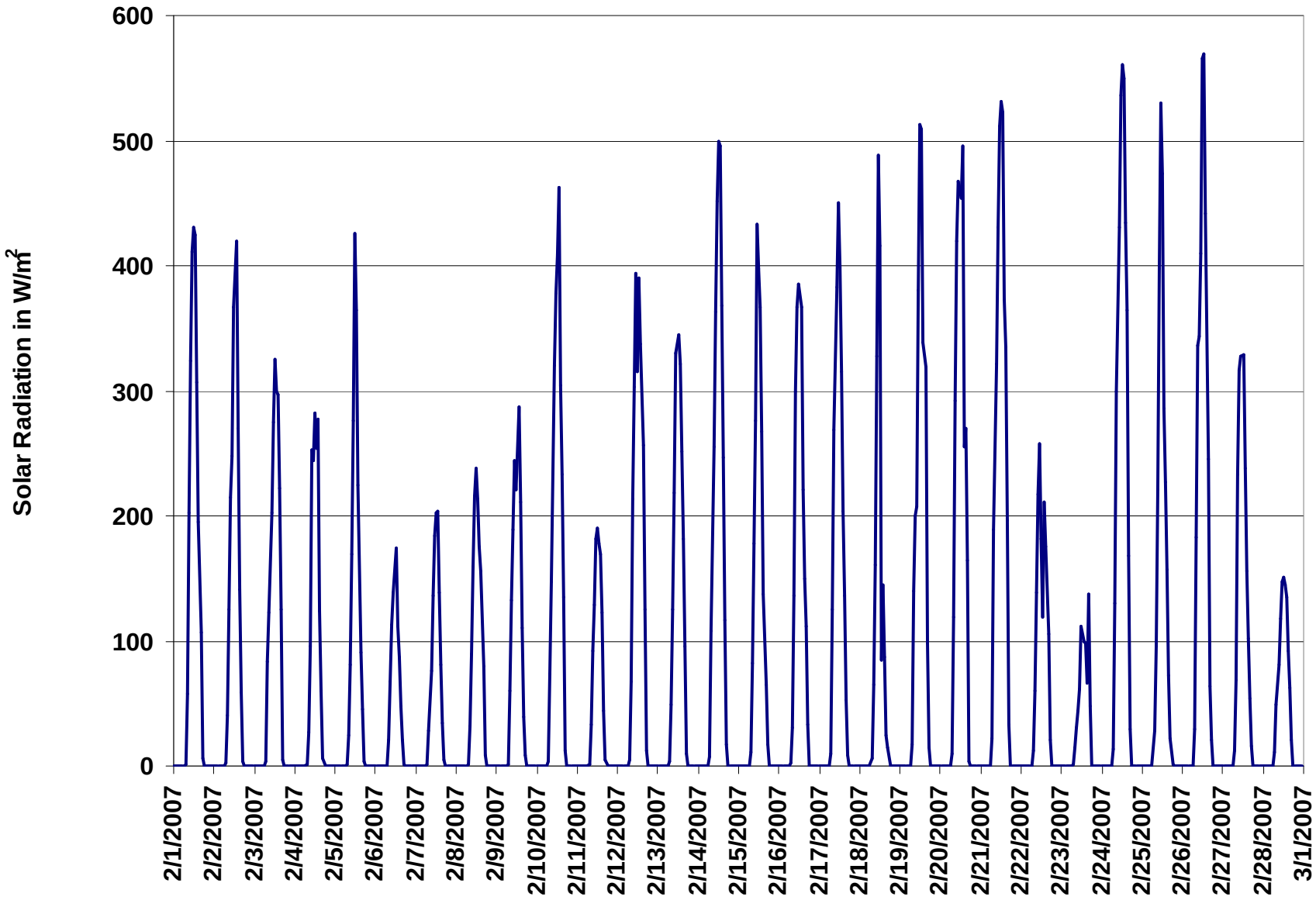


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend

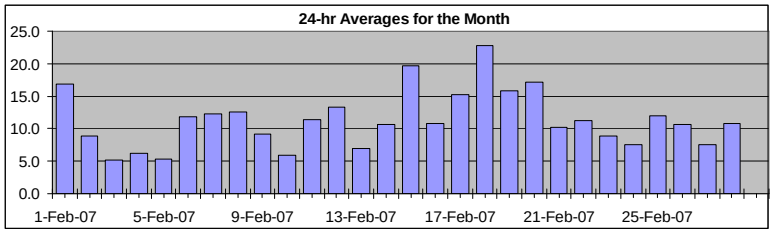
PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Summary

Maximum 1-hr Average:	39.3	km/hr	18-Feb	0:00 1:00
Maximum 24-hr Value:	22.8	km/hr	18-Feb	

Calm Time:	0 hrs	**0%** calms		Operational Time:			672 hrs	
Calibration Time:	0 hrs			AMD Operational Uptime:			100.0%	
Percentile	99	95	75	50	25	5	1	AverageS
	32.9	22.8	14.2	10.5	6.8	3.9	3.0	11.3 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

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-Feb-07	16	27	28	24	25	20	17	13	14	13	17	18	16	15	14	12	9	11	14	19	18	18	14	14	16.9	28.5
2-Feb-07	13	9	5	6	4	6	7	7	9	11	12	15	15	15	15	16	11	6	3	4	5	5	5	5	8.8	16.4
3-Feb-07	6	4	3	2	4	4	4	4	4	3	3	7	7	8	8	7	5	6	5	6	7	7	6	5	5.1	8.2
4-Feb-07	6	5	4	4	4	3	4	3	4	7	15	13	7	9	6	6	4	8	7	7	7	3	6	7	6.2	14.7
5-Feb-07	4	6	6	5	7	4	7	5	6	5	3	5	7	7	6	4	5	3	3	6	4	4	6	7	5.3	7.4
6-Feb-07	23	20	21	21	14	15	15	13	8	7	7	8	7	9	10	10	12	8	10	11	9	9	8	9	11.8	23.1
7-Feb-07	9	10	10	10	11	12	12	9	13	11	11	13	12	14	13	15	16	17	12	14	15	13	12	12	12.2	17.3
8-Feb-07	12	14	11	13	12	14	14	14	16	15	14	13	11	12	11	11	12	13	13	11	12	12	11	11	12.5	15.7
9-Feb-07	12	12	11	10	9	11	12	11	11	12	11	9	10	10	9	9	8	9	9	7	7	5	4	4	9.2	12.2
10-Feb-07	3	4	6	6	5	3	5	7	5	4	7	5	6	6	7	6	9	11	9	8	5	7	5	4	5.9	10.6
11-Feb-07	7	12	6	7	9	4	7	11	11	10	13	11	10	12	13	16	16	13	12	13	15	17	15	15	11.3	16.5
12-Feb-07	17	15	14	14	17	17	15	13	13	13	14	14	14	14	13	14	14	12	12	14	12	9	7	8	13.3	17.1
13-Feb-07	8	9	8	9	8	6	7	9	7	6	6	7	6	7	9	7	8	6	6	6	6	5	5	3	6.9	9.2
14-Feb-07	3	3	4	5	5	6	5	4	4	3	3	7	7	6	5	4	7	12	23	32	30	29	29	22	10.7	32.1
15-Feb-07	18	18	22	18	20	21	20	17	19	18	17	18	19	12	18	20	22	19	26	27	22	22	19	18	19.6	27.1
16-Feb-07	17	14	11	10	10	6	7	10	12	11	14	15	13	15	16	11	9	6	8	7	7	12	10	11	10.8	16.6
17-Feb-07	12	19	17	10	11	14	15	15	13	16	16	17	17	16	14	14	13	15	17	18	13	11	19	26	15.3	26.5
18-Feb-07	39	36	25	28	29	33	35	33	35	35	31	25	18	16	12	14	13	15	16	16	15	11	7	8	22.8	39.3
19-Feb-07	7	10	7	4	8	11	12	18	21	20	17	18	18	14	11	14	12	11	18	22	26	28	27	26	15.9	27.5
20-Feb-07	23	18	11	16	17	14	11	9	20	21	23	35	32	29	20	19	24	12	7	11	13	10	8	7	17.1	34.7
21-Feb-07	9	7	6	5	4	6	8	10	12	11	12	15	16	16	12	9	12	13	11	10	9	10	13	8	10.2	16.3
22-Feb-07	9	7	5	4	3	7	8	11	9	12	14	16	17	16	17	21	17	14	15	15	12	10	8	7	11.3	21.3
23-Feb-07	6	7	10	8	5	3	4	7	12	13	14	14	14	14	14	13	13	8	8	4	5	5	5	5	8.8	14.3
24-Feb-07	5	5	8	6	6	5	5	4	4	4	5	11	16	13	12	12	12	10	8	8	5	5	6	5	7.6	15.9
25-Feb-07	7	5	10	9	9	8	9	9	6	6	5	8	11	13	13	14	16	18	17	18	17	21	21	19	11.9	21.3
26-Feb-07	14	18	15	13	9	8	9	14	9	9	11	9	12	11	9	10	13	14	10	9	8	7	9	7	10.7	17.6
27-Feb-07	7	5	6	5	8	7	9	8	8	5	5	8	8	8	8	10	11	11	8	6	10	9	9	5	7.6	10.6
28-Feb-07	5	7	6	7	8	10	9	10	11	7	11	11	14	12	13	12	13	12	12	13	14	15	13	10	10.8	15.4
1-hr Average	11.3	11.6	10.5	9.9	10.1	10.0	10.4	10.7	11.3	11.1	11.8	13.1	12.9	12.5	11.8	11.8	12.0	11.2	11.4	12.2	11.7	11.3	11.0	10.2		
Hourly Max	39.3	36.5	28.5	28.3	28.7	32.8	34.7	33.4	35.4	35.2	31.3	34.7	32.3	29.2	20.3	21.3	24.4	19.0	25.8	32.1	30.0	29.1	29.1	26.5		

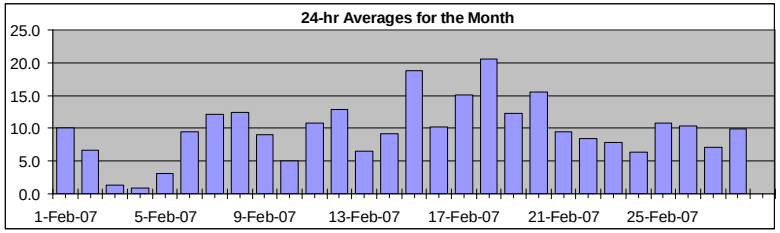
PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2007 to March 1, 2007

HOURLY AVERAGE TABLE

Wind Speed (WSv)



Summary

Maximum 1-hr Average:	39.1	km/hr	18-Feb	0:00 1:00
Maximum 24-hr Value:	20.5	km/hr	18-Feb	

Calm Time:	0 hrs	**0%** calms	Operational Time: 672 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageV
	32.9	22.3	14.0	10.2	6.4	3.1	2.0	0.6 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

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-Feb-07	16	26	28	24	25	20	17	13	14	13	17	18	15	15	14	12	9	10	14	18	18	18	14	14	10.0	28.4
2-Feb-07	13	9	4	5	4	6	7	7	9	11	12	15	15	15	15	16	11	6	2	2	5	5	5	4	6.6	16.2
3-Feb-07	5	2	3	1	3	2	4	3	3	3	2	5	6	7	7	6	3	6	4	6	6	6	5	5	1.3	7.4
4-Feb-07	6	5	2	2	4	2	3	2	3	5	15	13	6	8	6	5	3	8	7	7	7	2	5	7	1.0	14.5
5-Feb-07	4	6	5	4	6	3	5	5	6	5	2	5	7	6	6	3	5	2	2	6	4	2	6	7	3.1	7.3
6-Feb-07	23	19	21	20	14	15	14	12	8	6	7	8	7	8	9	10	12	8	10	11	9	9	8	9	9.4	22.8
7-Feb-07	9	10	10	10	10	11	12	9	13	11	11	13	11	13	13	15	15	17	11	14	15	13	12	11	12.1	17.2
8-Feb-07	12	14	11	13	12	14	14	14	16	15	13	12	11	12	11	10	12	13	13	10	12	12	11	11	12.5	15.7
9-Feb-07	12	12	11	10	9	11	12	11	11	12	11	9	10	9	8	8	8	9	8	7	6	5	4	4	9.0	12.0
10-Feb-07	3	3	6	6	5	3	5	7	5	4	7	5	5	5	7	6	9	10	9	7	4	6	4	3	5.0	10.4
11-Feb-07	7	11	5	7	9	4	7	11	10	10	13	10	9	12	12	15	16	13	12	13	15	16	14	14	10.9	16.4
12-Feb-07	16	15	14	14	17	17	15	13	13	13	13	14	13	14	13	14	13	11	12	14	12	9	6	8	12.9	17.0
13-Feb-07	8	9	8	9	7	6	7	8	7	6	6	7	6	7	9	7	8	5	6	6	6	5	4	3	6.5	9.0
14-Feb-07	2	3	4	4	4	6	5	4	4	2	2	7	7	5	4	3	6	11	23	32	30	29	29	21	9.2	31.9
15-Feb-07	18	17	22	18	20	21	20	17	19	18	17	18	18	12	18	20	22	19	26	27	22	22	19	17	18.7	26.5
16-Feb-07	16	13	10	9	10	6	7	10	12	10	13	15	13	14	16	11	9	6	7	7	7	11	9	11	10.2	16.4
17-Feb-07	12	19	16	9	11	13	15	15	13	16	16	17	17	15	14	14	13	15	17	18	13	11	19	26	15.1	26.2
18-Feb-07	39	36	25	28	29	33	35	33	35	35	31	24	18	16	12	13	13	14	16	16	15	10	7	8	20.5	39.1
19-Feb-07	7	10	7	2	8	11	12	18	21	19	16	18	17	14	10	14	12	11	18	21	25	27	27	26	12.3	27.4
20-Feb-07	23	17	11	16	17	14	10	7	20	21	23	35	32	29	20	18	17	11	5	10	12	10	7	7	15.5	34.6
21-Feb-07	9	7	6	4	3	5	8	9	12	11	11	15	15	16	11	9	11	13	11	9	8	9	13	7	9.5	16.2
22-Feb-07	8	6	4	4	3	7	8	11	9	12	12	16	17	15	17	21	17	13	15	14	12	10	8	6	8.4	21.0
23-Feb-07	6	7	10	8	5	2	4	7	12	13	14	14	14	14	13	13	13	8	8	4	4	4	5	5	7.9	14.2
24-Feb-07	5	5	8	6	6	5	5	3	4	3	4	10	16	13	12	11	12	10	7	7	5	4	5	2	6.4	15.6
25-Feb-07	5	4	7	8	9	8	9	9	6	6	5	7	9	12	12	13	15	18	17	17	17	21	21	19	10.8	21.3
26-Feb-07	13	17	15	13	9	8	9	14	8	9	11	9	11	11	9	10	13	14	10	9	8	7	9	7	10.4	17.5
27-Feb-07	7	4	6	5	8	7	9	8	8	5	4	8	8	8	8	9	10	10	8	5	10	9	9	4	7.1	10.5
28-Feb-07	5	7	6	7	8	10	9	10	11	7	11	11	14	12	13	12	13	12	12	13	14	15	13	10	9.9	15.3
1-hr Vector	1.8	2.1	2.2	2.4	2.2	1.3	1.1	1.4	1.4	1.8	1.6	1.9	2.1	1.7	1.0	1.3	1.6	2.2	2.8	2.4	1.7	1.2	1.7	0.9		
Hourly Max	39.1	36.4	28.4	28.3	28.7	32.7	34.6	33.3	35.4	35.0	31.1	34.6	32.2	29.0	19.8	21.0	21.7	18.8	25.7	31.9	29.9	29.0	28.9	26.2		

PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2007 to March 1, 2007

Summary

Calm Time:	0 hrs	**0%** calms		Operational Time:		672 hrs					
Calibration Time:	0 hrs			AMD Operational Uptime:		100.0%					
Percentile	99	95	75	50	25	5	1	Average			
	353.4	317.9	236.3	103.2	59.1	16.4	4.9	10 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-Feb-07	18	25	9	7	13	1	352	333	319	315	318	326	313	308	282	268	256	237	236	237	236	238	235	237	317	NW
2-Feb-07	240	250	298	329	351	311	295	305	302	313	299	318	318	315	312	329	334	0	1	181	224	208	169	172	303	WNW
3-Feb-07	172	140	109	50	105	98	101	96	95	87	106	350	322	312	280	281	232	216	128	133	174	170	152	124	151	SSE
4-Feb-07	125	118	163	168	113	88	125	173	111	210	230	231	281	236	242	258	276	14	19	61	94	82	29	28	186	S
5-Feb-07	46	51	94	97	37	91	79	32	50	72	77	107	73	103	142	72	34	68	56	9	353	256	260	258	64	ENE
6-Feb-07	349	350	359	4	9	6	7	18	32	26	54	67	69	80	99	79	56	63	63	69	76	90	107	74	35	NE
7-Feb-07	66	63	68	75	69	84	80	80	59	64	69	78	86	68	71	78	75	86	82	68	68	73	71	58	73	ENE
8-Feb-07	47	59	62	56	64	46	46	59	54	53	60	65	57	58	59	63	56	58	67	67	54	55	62	54	57	ENE
9-Feb-07	49	53	54	57	66	66	68	66	66	72	78	75	56	68	90	90	80	72	78	71	60	68	61	29	67	ENE
10-Feb-07	70	67	7	360	4	10	12	5	5	23	19	49	77	82	82	105	64	56	85	88	74	29	63	72	50	NE
11-Feb-07	11	34	75	35	7	21	14	18	24	25	47	43	24	19	35	33	47	53	60	55	57	60	57	49	40	NE
12-Feb-07	51	59	61	55	55	57	62	60	60	59	75	92	92	89	89	89	94	72	68	70	79	84	77	78	71	ENE
13-Feb-07	84	57	51	48	49	55	49	67	69	65	65	57	50	26	40	56	47	66	30	14	8	359	20	103	49	NE
14-Feb-07	126	113	157	183	176	184	171	126	120	160	139	113	116	110	97	61	144	187	195	194	191	189	191	206	178	S
15-Feb-07	227	231	232	241	240	239	235	235	240	239	229	233	235	230	218	226	219	207	204	215	238	265	266	283	234	SW
16-Feb-07	287	311	303	298	320	289	284	292	305	305	289	287	304	298	300	298	289	290	265	275	238	269	249	246	289	WNW
17-Feb-07	251	234	237	256	243	241	239	232	239	233	236	230	231	230	249	232	217	222	226	234	234	250	234	227	235	SW
18-Feb-07	217	216	212	211	209	211	216	216	212	218	229	239	266	282	266	277	268	267	269	266	270	283	273	279	232	SW
19-Feb-07	298	347	342	257	203	209	224	228	231	228	222	272	310	328	287	268	252	226	206	203	208	208	213	219	235	SW
20-Feb-07	233	241	254	246	235	231	221	217	228	232	234	235	235	230	239	256	296	316	210	260	277	316	296	266	245	WSW
21-Feb-07	272	261	278	236	219	223	219	233	223	228	246	276	281	280	271	265	240	232	226	239	255	247	237	246	249	WSW
22-Feb-07	245	225	155	116	83	15	357	357	7	12	37	60	66	71	71	80	82	84	100	71	78	68	75	81	65	ENE
23-Feb-07	355	344	347	341	326	293	308	296	320	323	319	320	310	306	311	309	313	315	314	276	272	249	233	185	313	NW
24-Feb-07	162	165	129	132	133	117	134	155	140	166	209	224	215	195	194	189	190	188	157	157	150	178	151	73	173	S
25-Feb-07	20	59	128	65	56	39	38	44	37	15	39	112	118	115	77	95	95	84	72	71	79	84	86	79	77	ENE
26-Feb-07	37	56	56	57	40	49	50	53	58	23	38	51	66	85	72	65	51	49	72	68	55	46	26	39	53	NE
27-Feb-07	35	28	25	15	19	14	1	354	8	15	8	14	27	45	35	39	41	63	81	60	44	28	31	19	30	NNE
28-Feb-07	28	26	30	44	49	45	50	45	47	47	79	95	86	77	92	80	88	96	99	103	92	99	82	52	74	ENE
Hourly Avg	314	8	22	16	28	20	6	351	326	298	292	294	324	346	350	18	44	86	133	148	155	167	172	197		

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

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2007 to March 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	**0%** calms		Operational Time:		672 hrs	
Calibration Time:	0 hrs			AMD Operational Uptime:		100.0%	
Percentile	99	95	75	50	25	5	1
	47.8	30.9	12.9	8.9	6.5	4.5	3.4

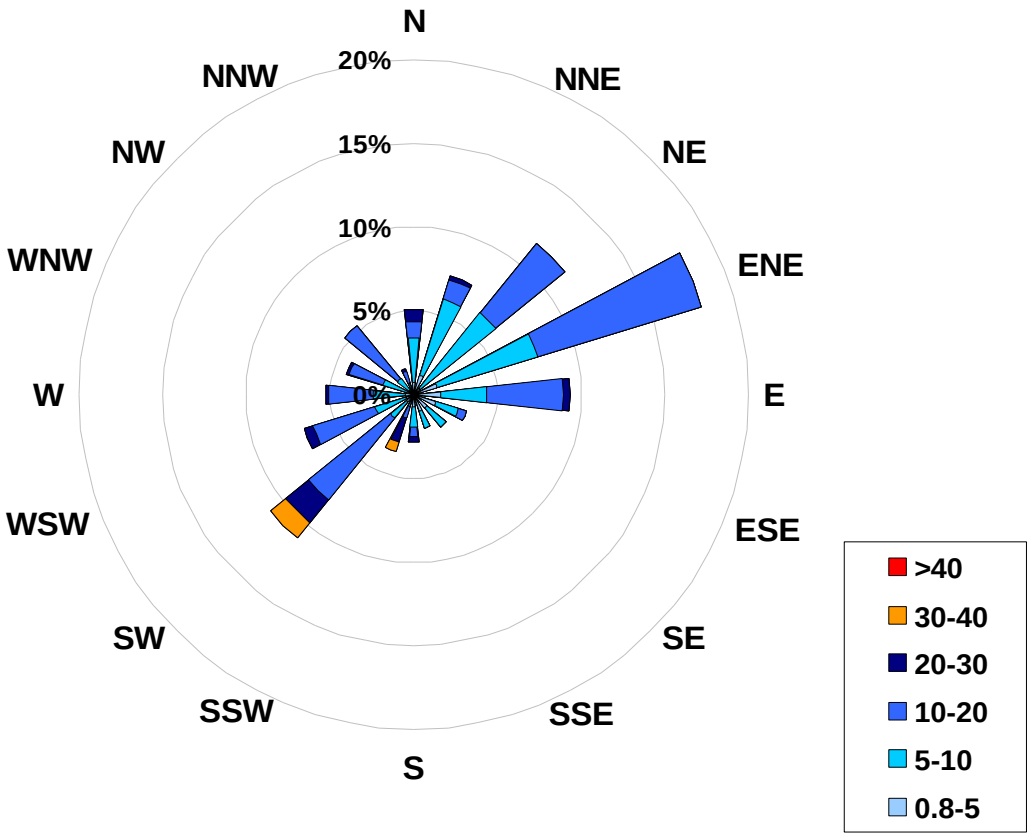
Status Flag Characters

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-Feb-07	8	6	4	4	5	5	5	7	5	8	7	8	11	11	10	10	10	9	7	8	5	4	4	3	11.0
2-Feb-07	7	7	35	27	25	11	11	12	13	11	13	9	7	10	11	6	7	12	33	22	11	13	20	27	35.5
3-Feb-07	23	36	27	41	19	39	19	19	33	30	38	27	23	22	19	17	45	10	24	12	13	11	10	8	45.0
4-Feb-07	6	14	47	31	20	27	48	50	35	28	6	6	23	15	15	13	26	11	9	11	9	36	12	6	50.0
5-Feb-07	16	14	13	27	12	32	14	10	14	18	36	25	15	15	17	19	6	13	23	9	35	48	13	10	47.9
6-Feb-07	9	7	6	5	10	7	5	7	12	13	17	16	19	10	12	9	8	12	12	8	9	11	8	9	19.1
7-Feb-07	10	9	8	11	13	11	7	11	7	11	10	10	14	11	13	9	9	5	8	9	6	9	6	6	13.9
8-Feb-07	6	7	10	7	9	6	6	6	5	6	7	9	8	7	8	9	8	7	6	6	5	5	6	5	9.6
9-Feb-07	5	5	7	7	11	7	10	8	8	9	10	15	8	14	15	10	9	7	8	9	8	9	9	7	15.2
10-Feb-07	12	13	4	5	5	13	5	3	8	9	11	17	13	22	15	20	9	11	14	17	26	20	23	31	30.5
11-Feb-07	12	7	13	14	6	13	8	5	7	10	7	13	13	8	10	6	6	7	6	5	5	5	7	7	13.6
12-Feb-07	5	6	6	6	5	4	6	6	5	7	8	9	9	9	12	11	7	8	5	4	5	6	11	8	11.6
13-Feb-07	9	8	6	6	6	10	6	6	10	13	14	16	13	13	15	14	13	20	15	5	6	9	14	15	19.6
14-Feb-07	23	22	23	13	9	7	12	7	14	42	44	10	8	12	26	32	45	49	9	5	5	6	5	11	48.9
15-Feb-07	9	9	9	8	6	5	4	7	5	5	5	6	11	9	6	5	5	6	5	11	7	5	5	6	11.1
16-Feb-07	7	8	12	16	9	21	12	9	7	11	9	9	10	10	7	8	14	15	11	11	9	11	12	8	21.1
17-Feb-07	7	6	11	8	12	6	8	9	7	6	10	6	6	7	10	8	7	5	4	6	12	12	4	8	12.1
18-Feb-07	4	3	5	3	4	3	3	4	4	4	5	6	6	7	15	11	11	6	5	6	5	10	13	14	15.4
19-Feb-07	15	6	11	43	10	12	10	4	5	5	8	8	11	11	16	10	8	9	5	5	5	5	5	5	42.8
20-Feb-07	7	8	11	7	9	8	10	36	6	6	6	4	4	6	8	8	15	15	29	18	8	16	21	16	36.3
21-Feb-07	11	11	10	25	60	17	8	6	6	8	12	8	8	8	15	16	15	5	6	14	11	10	7	16	60.5
22-Feb-07	12	35	22	22	20	11	7	3	6	7	7	4	6	7	11	8	9	11	7	11	6	5	8	17	35.3
23-Feb-07	22	12	7	10	20	51	20	9	7	7	7	8	7	8	8	8	7	9	6	34	20	21	9	9	51.1
24-Feb-07	15	17	3	5	4	7	8	13	28	31	49	12	9	12	12	10	10	7	15	27	23	46	20	44	49.1
25-Feb-07	33	27	15	14	6	3	3	4	10	8	10	23	21	17	15	12	12	6	6	6	5	5	4	5	32.7
26-Feb-07	12	4	5	6	8	7	7	5	13	10	10	12	16	15	18	16	4	4	7	6	6	8	7	6	18.1
27-Feb-07	8	8	6	7	6	9	6	7	7	16	48	10	12	10	11	9	9	7	11	12	6	8	9	19	48.4
28-Feb-07	10	9	11	6	8	5	8	5	7	11	9	11	6	9	8	9	6	8	7	8	8	7	8	13	13.2
Hourly Max	33	36	47	43	60	51	48	50	35	42	49	27	23	22	26	32	45	49	33	34	35	48	23	44	

1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site for February 2007

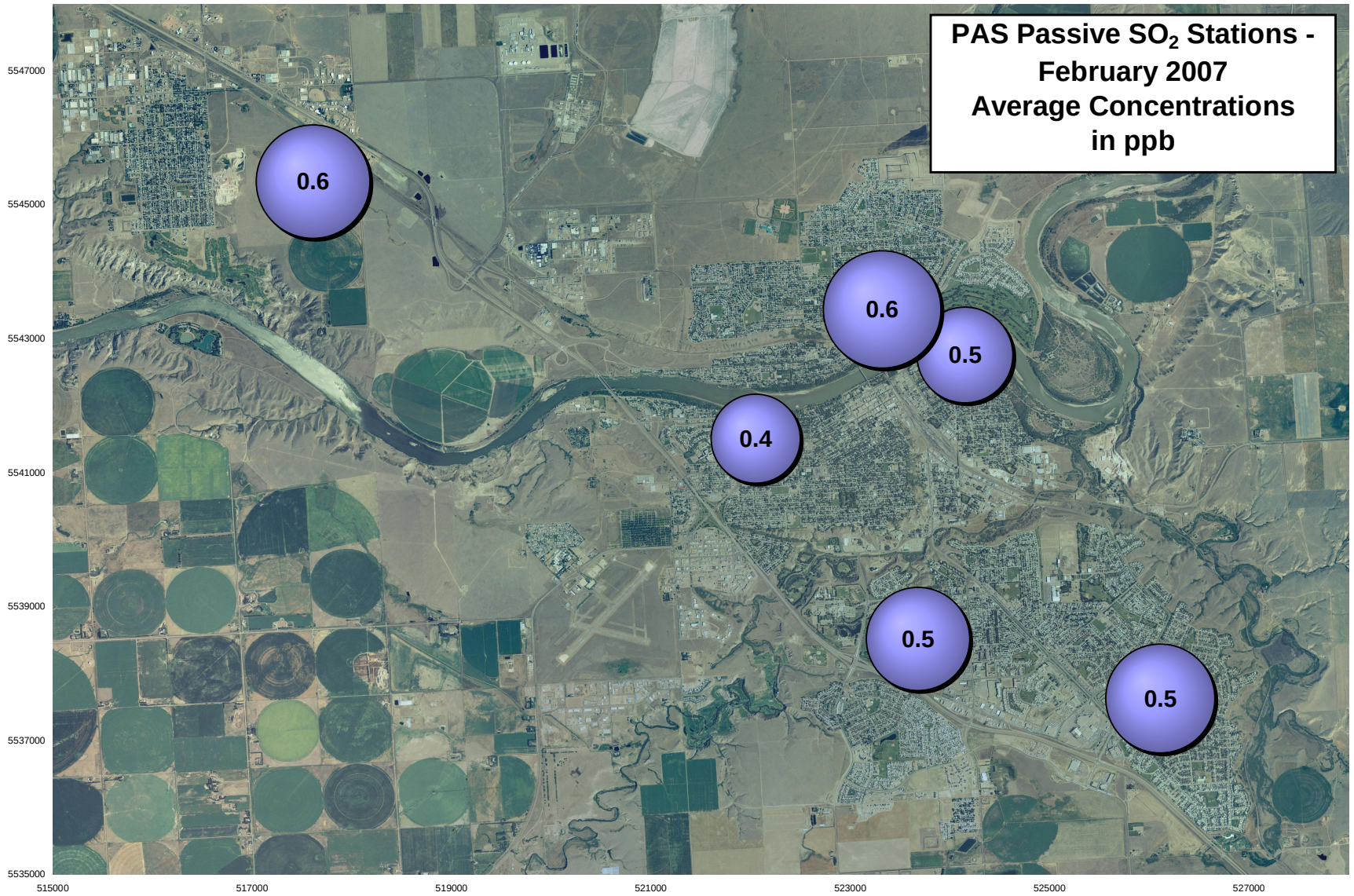


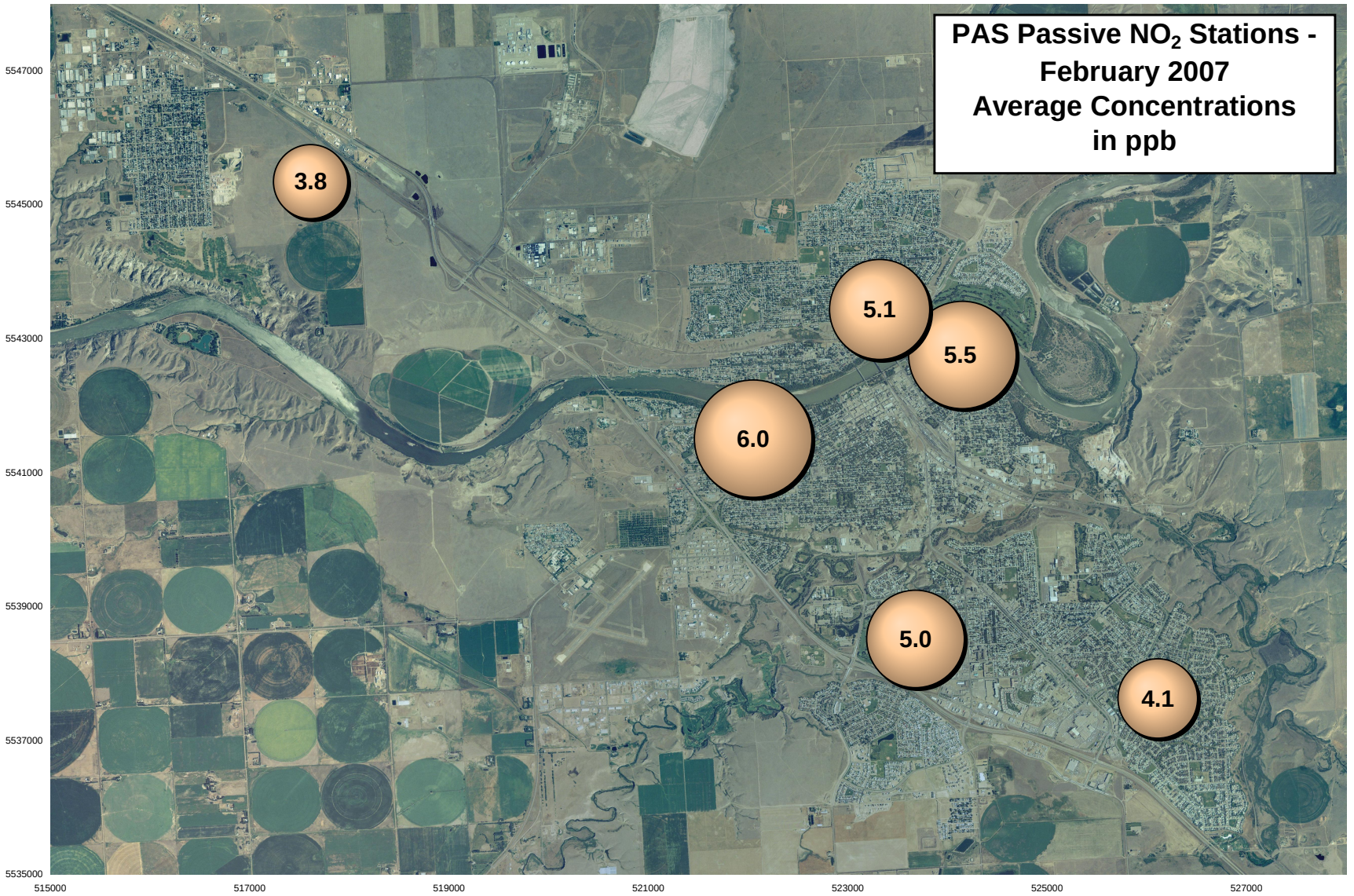
Calms:	0%

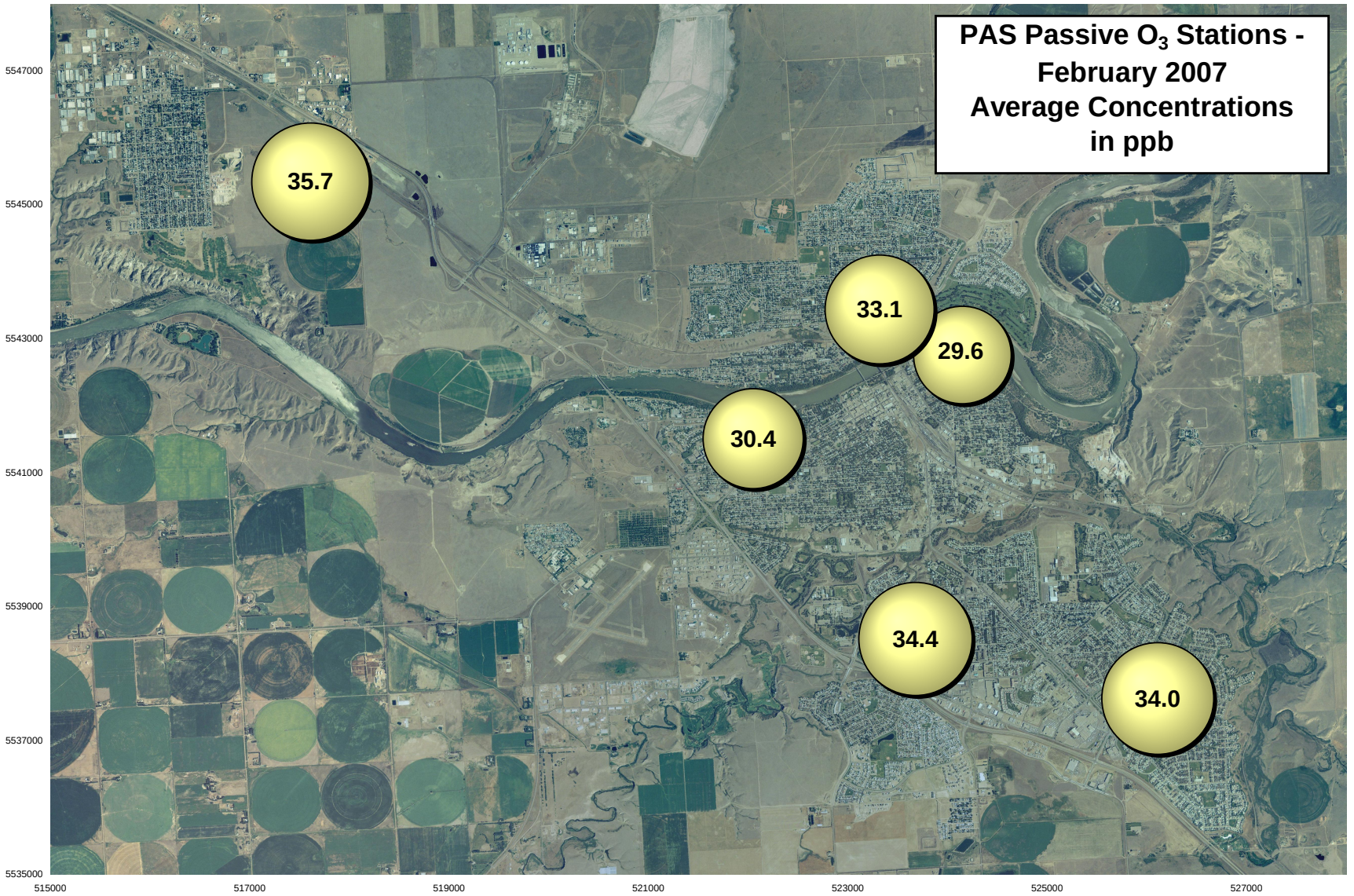
Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	79
5	to	10	245
10	to	20	295
20	to	30	41
30	to	40	12
	>	40	0
Total Non-Zero Values			672

Passive Monitoring – February 2007

Station Number	Station Name	SO_2 ppb	O_3 ppb	NO_2 ppb	Location Easting	Northing	Elevation
Duplicates							
5a	Southridge	**0.5**	**34.6**	**4.9**			
5b	Southridge	**0.5**	**34.1**	**5.1**			
1	Hospital	**0.4**	**30.4**	**6.0**	521648	5542721	698
2	Ball Park	**0.5**	**29.6**	**5.5**	524019	5543686	660
3	Monitoring Station	**0.6**	**33.1**	**5.1**	522812	5544133	714
4	Redcliff	**0.6**	**35.7**	**3.8**	517448	5545608	725
5	Southridge	**0.5**	**34.4**	**5.0**	523172	5539016	721
6	Christian School Park	**0.5**	**34.0**	**4.1**	526577	5538133	709
Stats:							
	Mean	**0.5**	**32.8**	**4.9**			
	Standard Deviation	**0.1**	**2.4**	**0.8**			
	Minimum	**0.4**			**1**	**Hospital**	
	Maximum	**0.6**			**3**	**Monitoring Station**	
	Minimum		**29.6**		**2**	**Ball Park**	
	Maximum		**35.7**		**4**	**Redcliff**	
	Minimum			**3.8**	**4**	**Redcliff**	
	Maximum			**6.0**	**1**	**Hospital**	


PAS Passive SO_2 Stations - February 2007 Average Concentrations in ppb
0.6
0.6
0.5
0.4
0.5
0.5
5547000
5545000
5543000
5541000
5539000
5537000
5535000
515000
517000
519000
521000
523000
525000
527000


PAS Passive NO_2 Stations - February 2007 Average Concentrations in ppb
3.8
5.1
5.5
6.0
5.0
4.1
5547000
5545000
5543000
5541000
5539000
5537000
5535000
515000
517000
519000
521000
523000
525000
527000


PAS Passive O_3 Stations - February 2007 Average Concentrations in ppb
35.7
33.1
29.6
30.4
34.4
34.0
5547000
5545000
5543000
5541000
5539000
5537000
5535000
515000
517000
519000
521000
523000
525000
527000

Palliser Airshed Society
February 2007 - Calibration Reports

Crescent Heights Station: O_3, NO_x, NO, NO_2, THC, CO and $PM_{2.5}$

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 17, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine ☐ Calibration ☐	Removal ☐	Other: ☐
Start Time (MST)	10:42	End Time (MST)	13:05
Barometric Pressure	27.1 inches Hg	Station Temperature	19.3 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	0.969716	Calculated slope	1.001640
Calculated intercept	3.475936	Calculated intercept	3.511203
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-10.9	ppb	-10.9	ppb
Slope	1.063		1.063	
Lamp measure	4843.5	mV	4884.8	mV
Lamp Reference	4845.8	mV	4885.2	mV
Pressure	26.5	inches Hg	26.7	inches Hg
Sample Flow	683	ccm	664	ccm
Sample temp	39.8	Deg C	39.4	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)
4988	0.0	0.0	-3.6	N/A
4988	300.0	290.8	285.0	1.0202
4988	200.0	195.6	195.2	1.0021
4988	100.0	105.8	100.6	1.0521
4988	0.0	0.0	-3.6	0.0000
4988	300.0	290.8	285.0	1.0202
			Average Correction Factor	1.0248

Calculated value of As Found Response: 283.3 ppm Percent Change of As Found: -2.6%

	before calibration		after calibration	
Auto zero	-1.1	ppb	-1.3	ppb
Auto span	370.7	ppb	369.1	ppb

Notes:

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

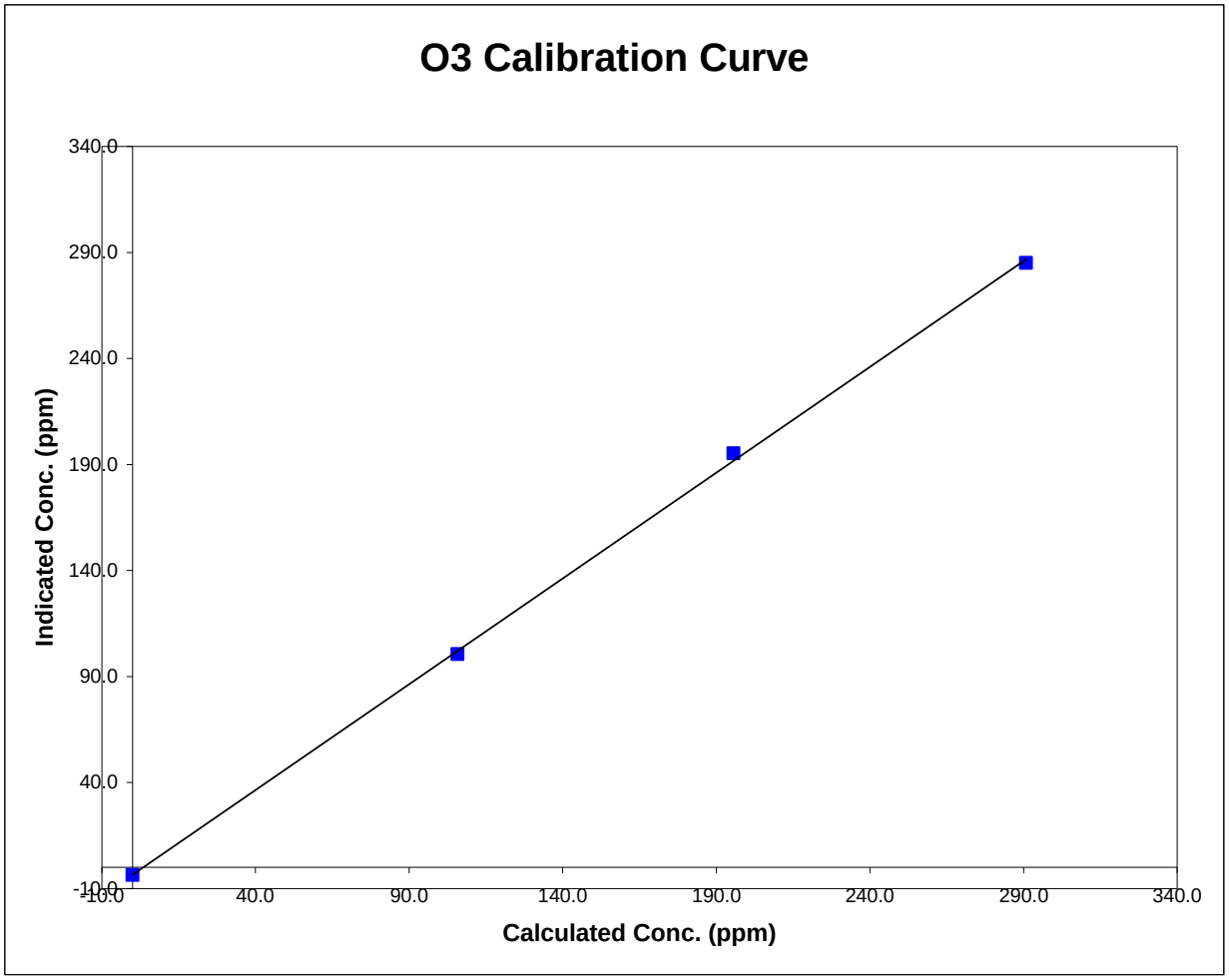
FOCUS AIR QUALITY MONITORING

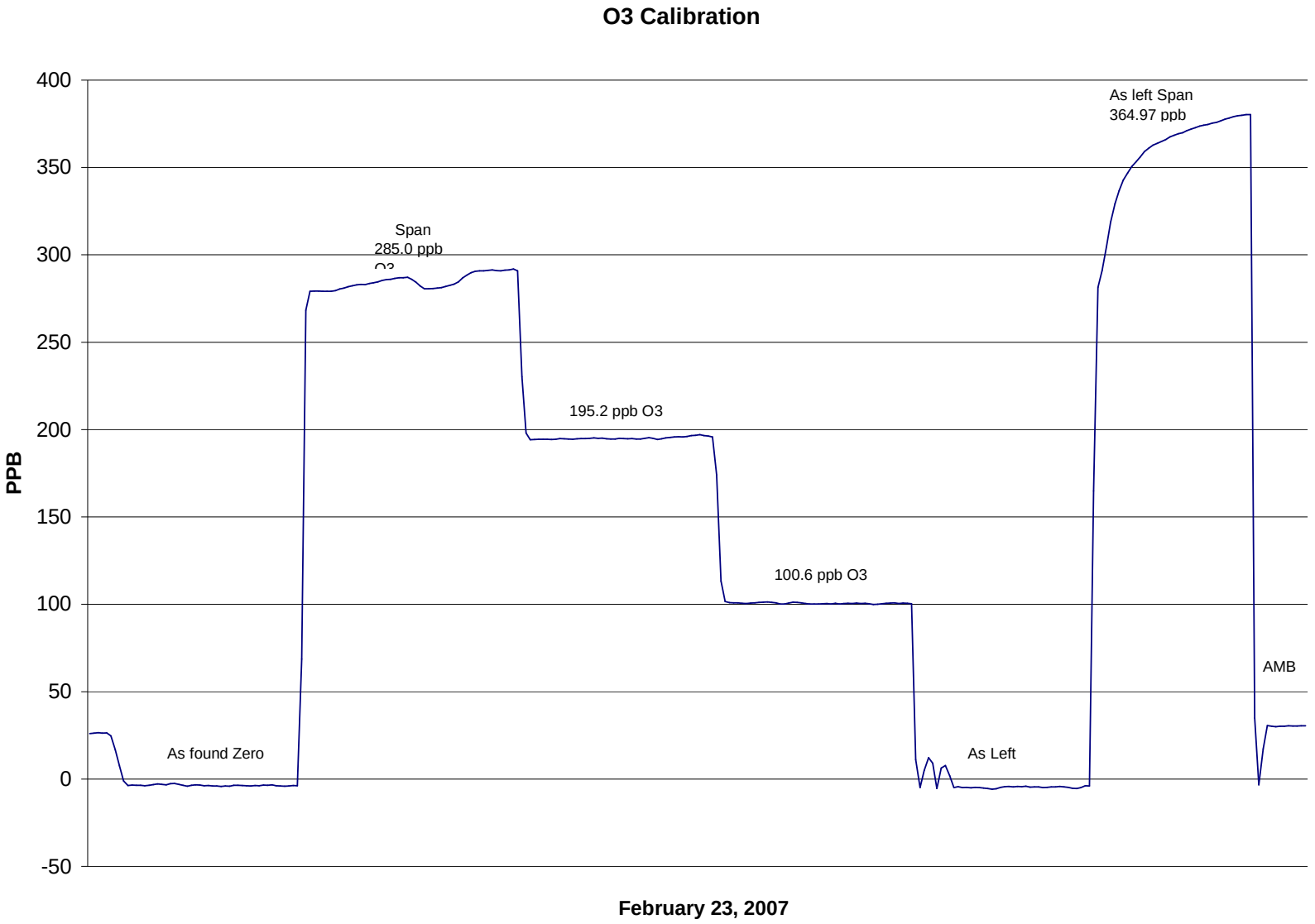
Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 17, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:42	End Time (MST)	13:05
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	
290.8	285.0	1.0202		
195.6	195.2	1.0021	Correlation Coefficient	0.999625
105.8	100.6	1.0521		
0.0	-3.6	N/A	Slope	1.001640
			Intercept	3.511203




O3 Calibration
400
350
300
250
200
150
100
50
0
-50
PPB
As left Span
364.97 ppb
Span
285.0 ppb
195.2 ppb O3
100.6 ppb O3
AMB
As found Zero
As Left
February 23, 2007

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 6, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	11:35		End Time (MST)	17:42	
Barometric Pressure	27.2	inches Hg	Station Temperature	25.3	Deg C
Calibrator	Environics 6100		Serial Number	3474	
NO Cal Gas Conc	49.9	ppm	Cal Gas Expiry Date	15-Dec-07	
NOx Cal Gas Conc	49.9	ppm	Cal Gas Serial #	LL-50114	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.001089	0.999109	0.998338
	Data Offset	0.511037	0.725960	2.846580
After	Data Slope	1.001089	0.999109	0.998338
	Data Offset	0.511037	0.725960	2.846580
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	1.426		1.426	
NOx coefficient	1.455		1.455	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	41.8		41.8	
Perm Temp	40.0	Deg C	40.0	Deg C
Pressure	5.2	inches Hg	5.2	inches Hg
Sample Flow	450.0	ccm	450.0	ccm

Notes: Performed pump replacement and span adjustment. Spike in as left span caused by perm tube gas build-up due to pump failure.

Calibration Report

Parameter **$NOx\text{-}NO\text{-}NO_2$**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: February 6, 2007 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	-2.2	-1.6	-3.3	N/A	N/A
1	4990	39.83	395.1	395.1	0.0	1.6	-0.3	0.3	250.4351	-1303.8886
2	4990	19.90	198.2	198.2	0.0	-4.3	-1.5	-4.1	-45.7036	-135.5487
3	4990	9.95	99.3	99.3	0.0	302.3	300.2	1.2	0.3286	0.3309
AFZ	4990	0.00	0.0	0.0	0.0	-2.2	-1.6	-3.3	0.0000	0.0000
AFS	4990	39.86	395.5	395.5	0.0	-2.0	-1.4	-3.5	-196.3406	-282.8595
							Average Correction Factor		68.3534	-479.7022

As Found Concentrations NO_X= 0.9 NO= 3.1 As Found Percent Change NO_X= -99.8% NO= -99.2%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 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	392.1	398.3	-6.2	391.8	396.1	-3.3	N/A	N/A	N/A	N/A
300	391.4	116.6	274.8	391.1	113.9	275.7	1.0010	1.0233	0.9970	100.3%
200	23.1	2.0	21.0	22.4	-0.8	21.4	1.0316	-2.5023	0.9839	101.6%
100	435.1	14.6	420.5	434.7	11.8	433.8	1.0008	1.2398	0.9692	103.2%
					Average Correction Factor		1.0111	-0.0797	0.9834	101.7%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-2.6	-3.7	-0.5	ppb	23.4	23.7	1.1	ppb
Auto span	397.9	392.1	5.1	ppb	NA	NA	NA	ppb

Calibration Performed By: Travis Mehrer, Tom Bourque

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **Palliser Airshed**

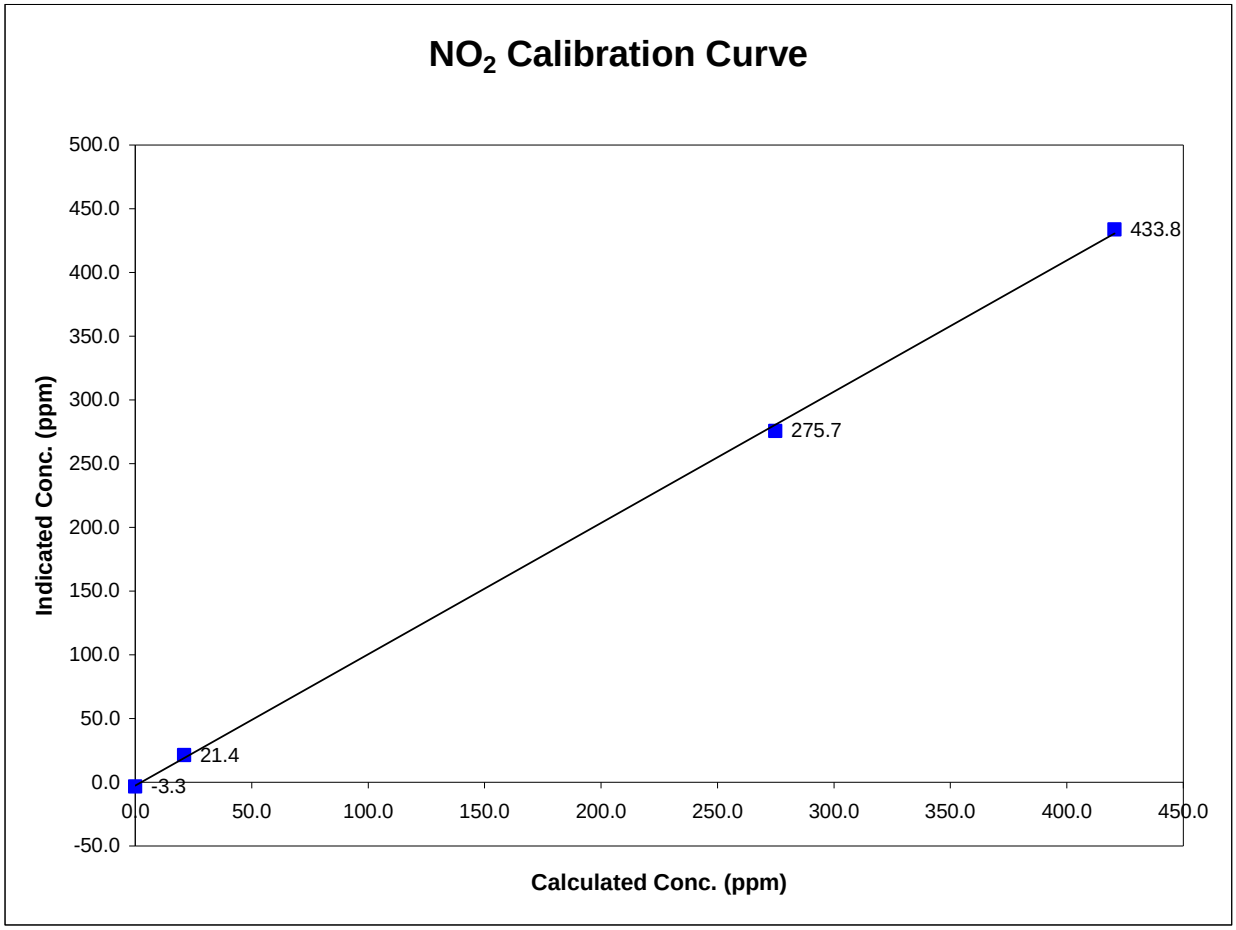
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 6, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:35	End Time (MST)	17:42
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	-3.3	0.0000		
274.8	275.7	0.9970	Correlation Coefficient	0.999696
21.0	21.4	0.9839		
420.5	433.8	0.9692	Slope	0.969716
			Intercept	2.711770



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **Palliser Airshed**

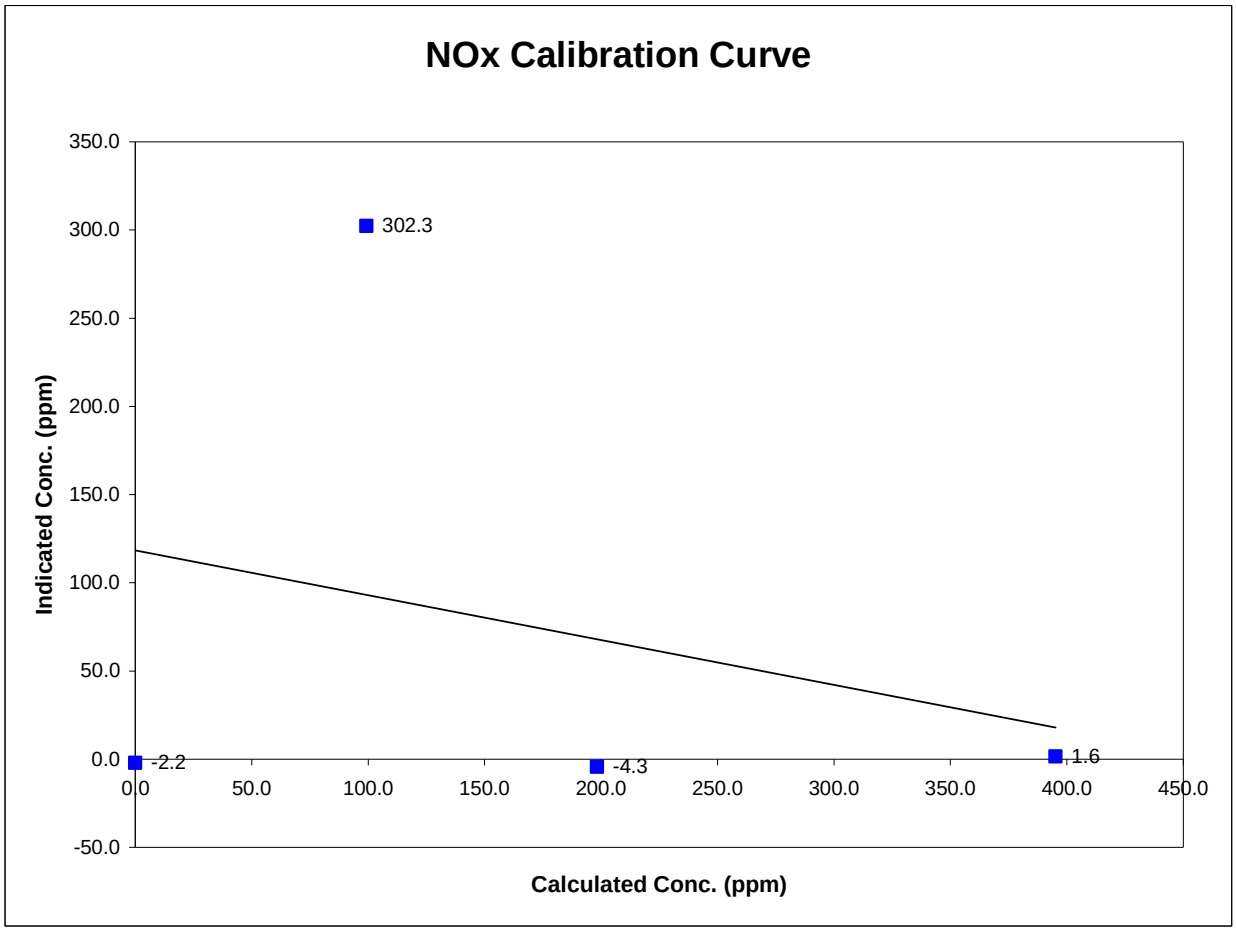
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 6, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:35	End Time (MST)	17:42
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	-2.2	0.0000		
395.1	1.6	250.4351	Correlation Coefficient	0.079645
198.2	-4.3	-45.7036		
99.3	302.3	0.3286	Slope	-0.313158
			Intercept	196.453662



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**

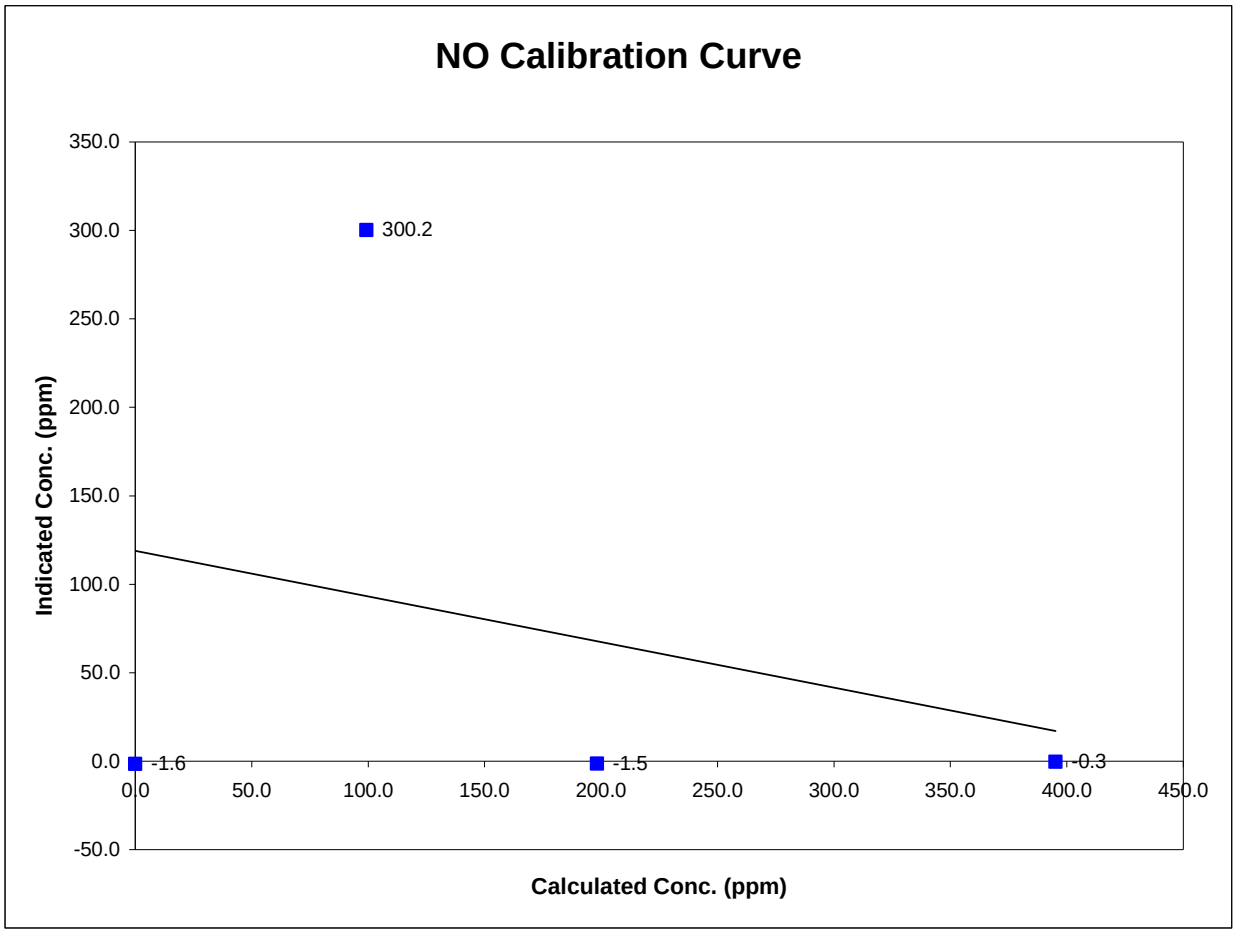
FOCUS AIR QUALITY MONITORING

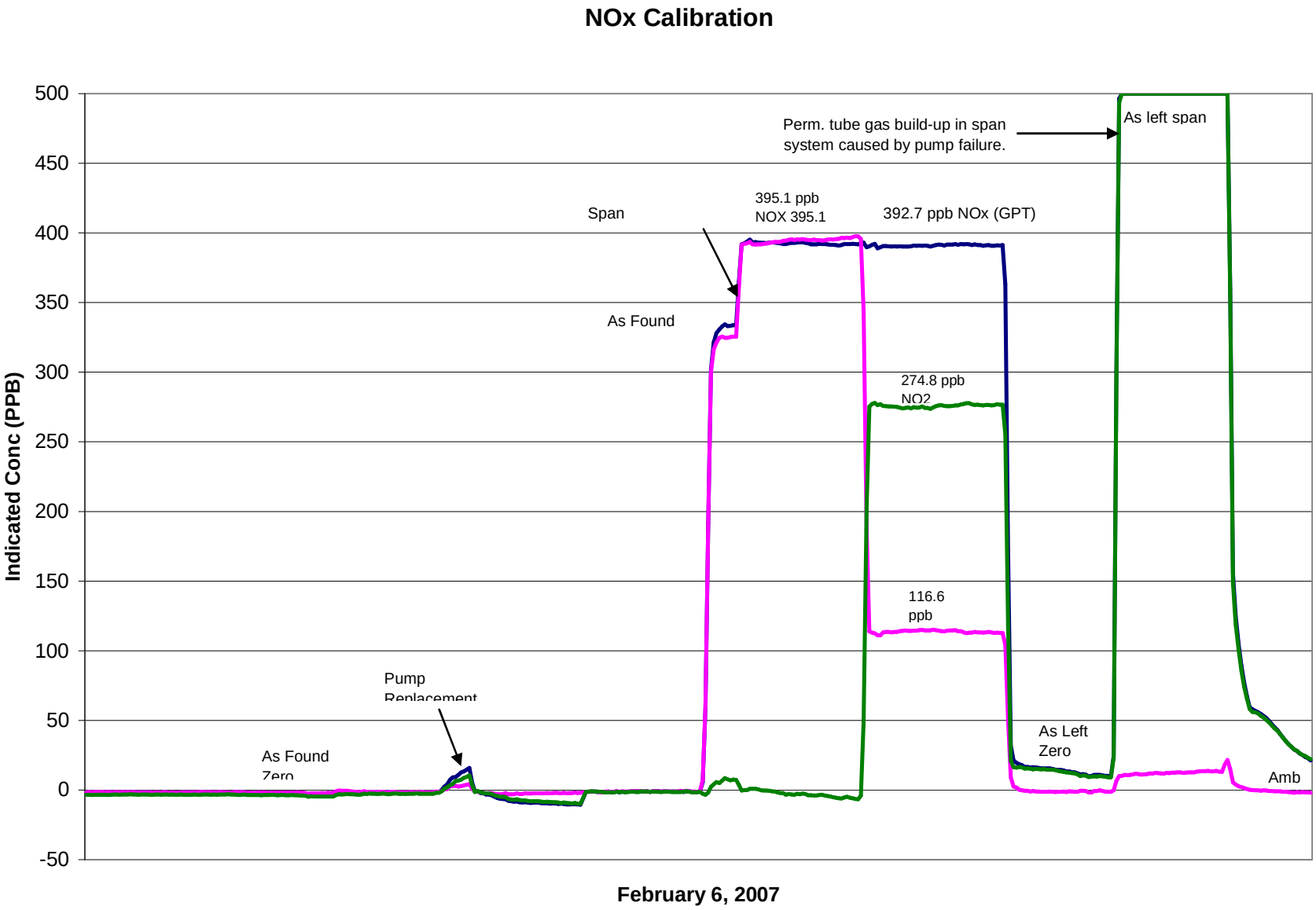
Station Information

Calibration Date	February 6, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:35	End Time (MST)	17:42
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	-1.6	N/A		
395.1	-0.3	-1303.8886	Correlation Coefficient	0.083188
198.2	-1.5	-135.5487		
99.3	300.2	0.3309	Slope	-0.322833
			Intercept	197.129654




NOx Calibration
Indicated Conc (PPB)
500
450
400
350
300
250
200
150
100
50
0
-50
Perm. tube gas build-up in span
system caused by pump failure.
As left span
Span
395.1 ppb
NOX 395.1
392.7 ppb NOx (GPT)
As Found
274.8 ppb
NO2
116.6
ppb
Pump
Replacement
As Found
Zero
As Left
Zero
Amb
February 6, 2007

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 22, 2007	Previous Calibration	February 6, 2007
Station Number	101	Station Location	Crescent Heights

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	15:36		End Time (MST)	21:00	
Barometric Pressure	27.1	inches Hg	Station Temperature	20.0	Deg C
Calibrator	Environics 6100		Serial Number	3474	
NO Cal Gas Conc	54.5	ppm	Cal Gas Expiry Date	22-Nov-06	
NOx Cal Gas Conc	54.5	ppm	Cal Gas Serial #	FF-37169	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.001089	0.999109	0.998338
	Data Offset	0.511037	0.725960	2.846580
After	Data Slope	1.004688	1.007417	1.009116
	Data Offset	0.956656	-0.518861	0.229705
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	1.426		1.515	
NOx coefficient	1.455		1.532	
Chamber Temp	50.0	Deg C	50.1	Deg C
Cooler Temp	7.0	Deg C	6.9	Deg C
Azero	41.8		39.6	
Perm Temp	40.0	Deg C	40.3	Deg C
Pressure	5.2	inches Hg	5.3	inches Hg
Sample Flow	450.0	ccm	451.0	ccm

Notes: Zero and Span were adjusted...

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: February 22, 2007 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	4991	0.00	0.0	0.0	0.0	-1.4	-1.6	-1.4	N/A	N/A
1	4991	39.84	431.6	431.6	0.0	427.8	426.7	-0.1	1.0090	1.0114
2	4991	19.91	216.5	216.5	0.0	216.9	215.2	0.3	0.9980	1.0063
3	4991	9.95	108.5	108.5	0.0	109.8	108.6	-0.6	0.9883	0.9990
AFZ	4991	0.00	0.0	0.0	0.0	-12.0	-8.3	-5.2	0.0000	0.0000
AFS	4991	39.84	431.6	431.6	0.0	408.0	420.3	-13.1	1.0580	1.0270
							Average Correction Factor		0.9984	1.0056

As Found Concentrations NO_X= 420.7 NO= 431.4 As Found Percent Change NO_X= -2.5% NO= 0.0%

GPT Calibration Data

Dilution Flow 4991 ccm Source Gas Flow 39.84 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	433.2	429.9	3.3	430.5	425.8	-1.4	N/A	N/A	N/A	N/A
300	435.1	329.3	105.8	432.5	326.1	105.0	1.0062	1.0098	1.0076	99.2%
200	435.5	239.8	195.6	432.8	237.5	194.0	1.0062	1.0101	1.0082	99.2%
100	436.3	145.6	290.8	433.6	144.0	288.0	1.0062	1.0107	1.0095	99.1%
					Average Correction Factor		1.0062	1.0102	1.0084	99.2%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-2.6	-3.7	-0.5	ppb	-2.3	-1.4	-1.4	ppb
Auto span	397.9	392.1	5.1	ppb	472.0	195.5	240.2	ppb

Calibration Performed By: Lenin Flores, Reid Balawyder

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **Palliser Airshed**

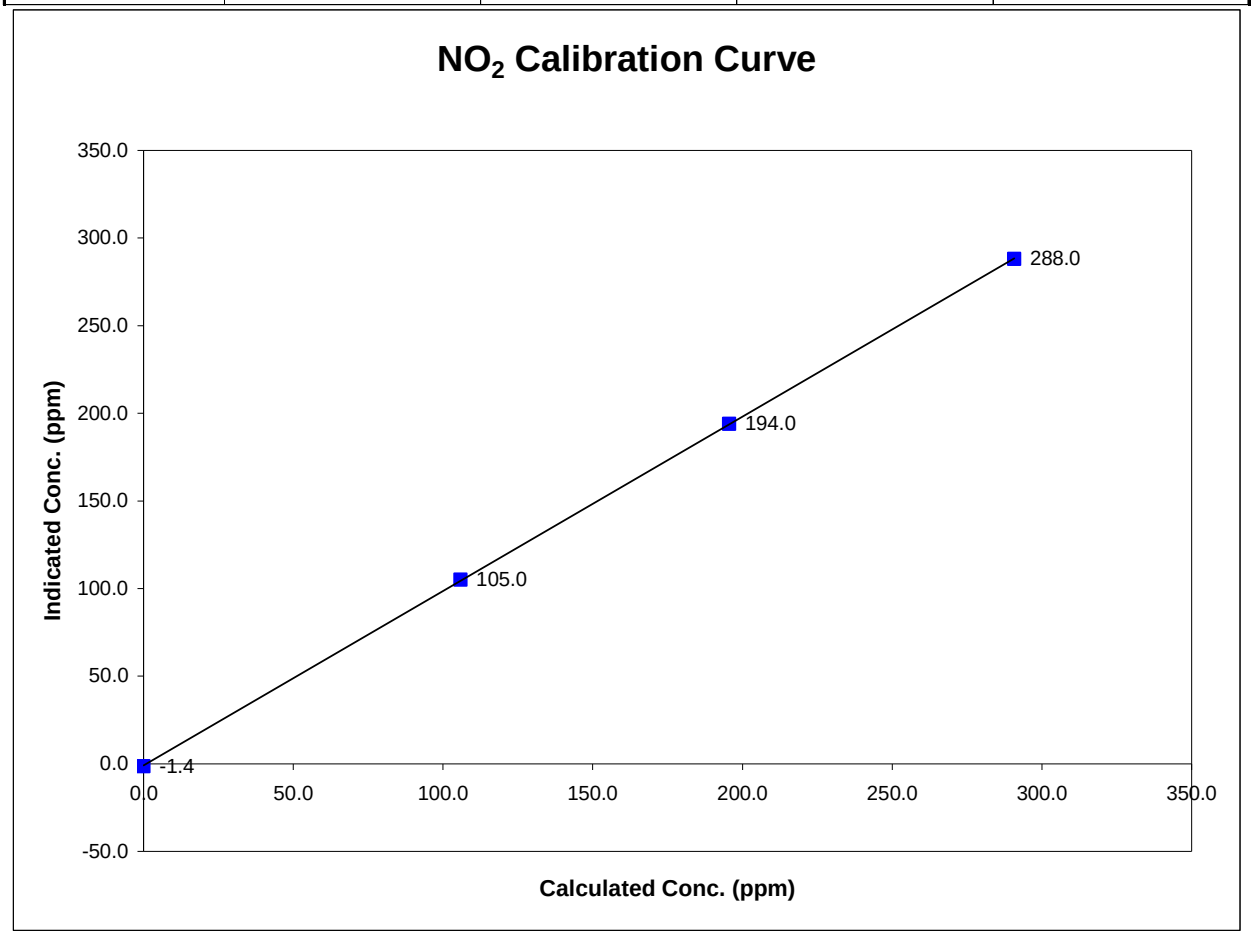
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 22, 2007	Previous Calibration	February 6, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:36	End Time (MST)	21:00
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	-1.4	0.0000		
105.8	105.0	1.0076	Correlation Coefficient	0.999980
195.6	194.0	1.0082		
290.8	288.0	1.0095	Slope	1.004688
			Intercept	0.956656



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **Palliser Airshed**

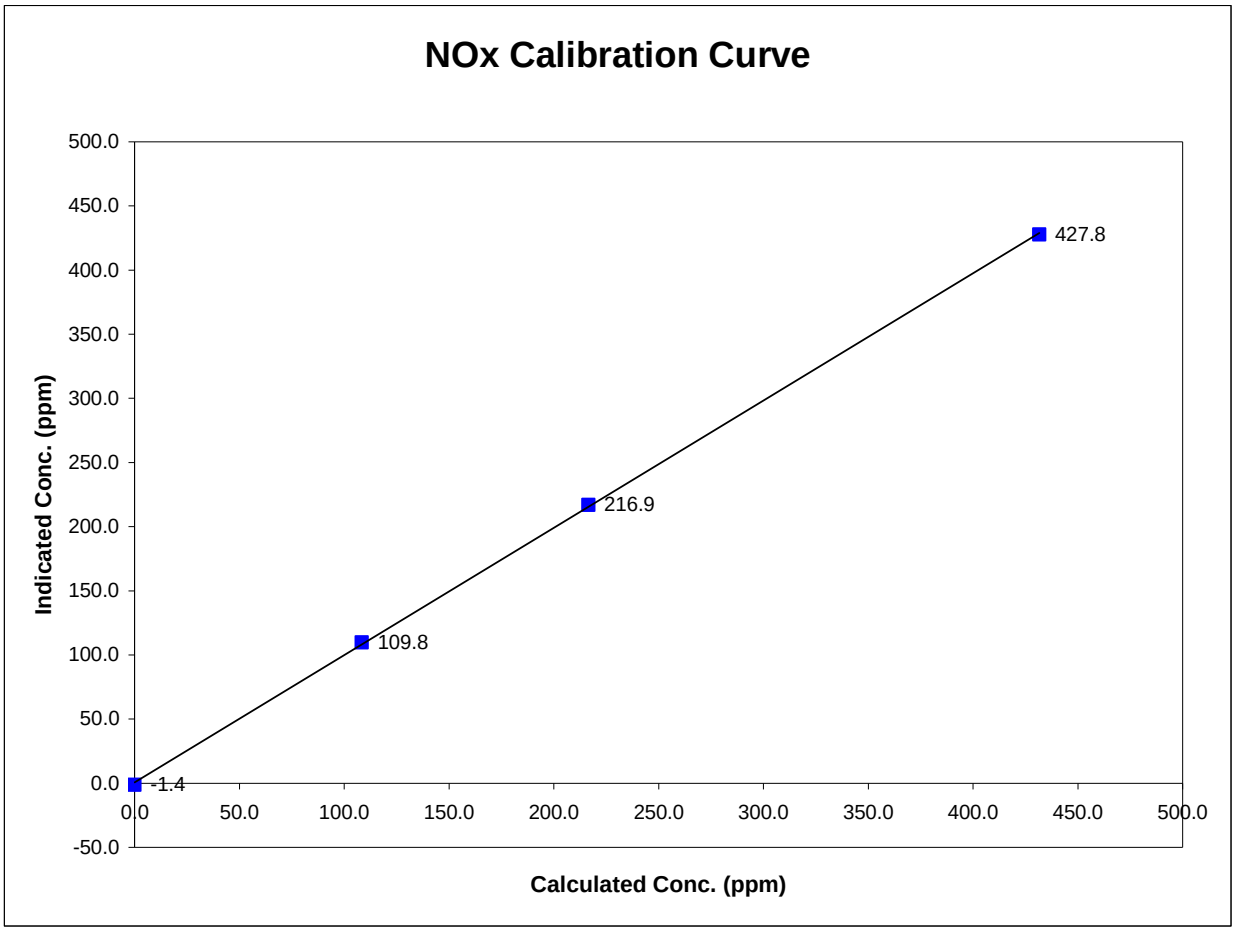
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 22, 2007	Previous Calibration	February 6, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:36	End Time (MST)	21:00
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	-1.4	0.0000		
431.6	427.8	1.0090	Correlation Coefficient	0.999903
216.5	216.9	0.9980		
108.5	109.8	0.9883	Slope	1.007417
			Intercept	-0.518861



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**

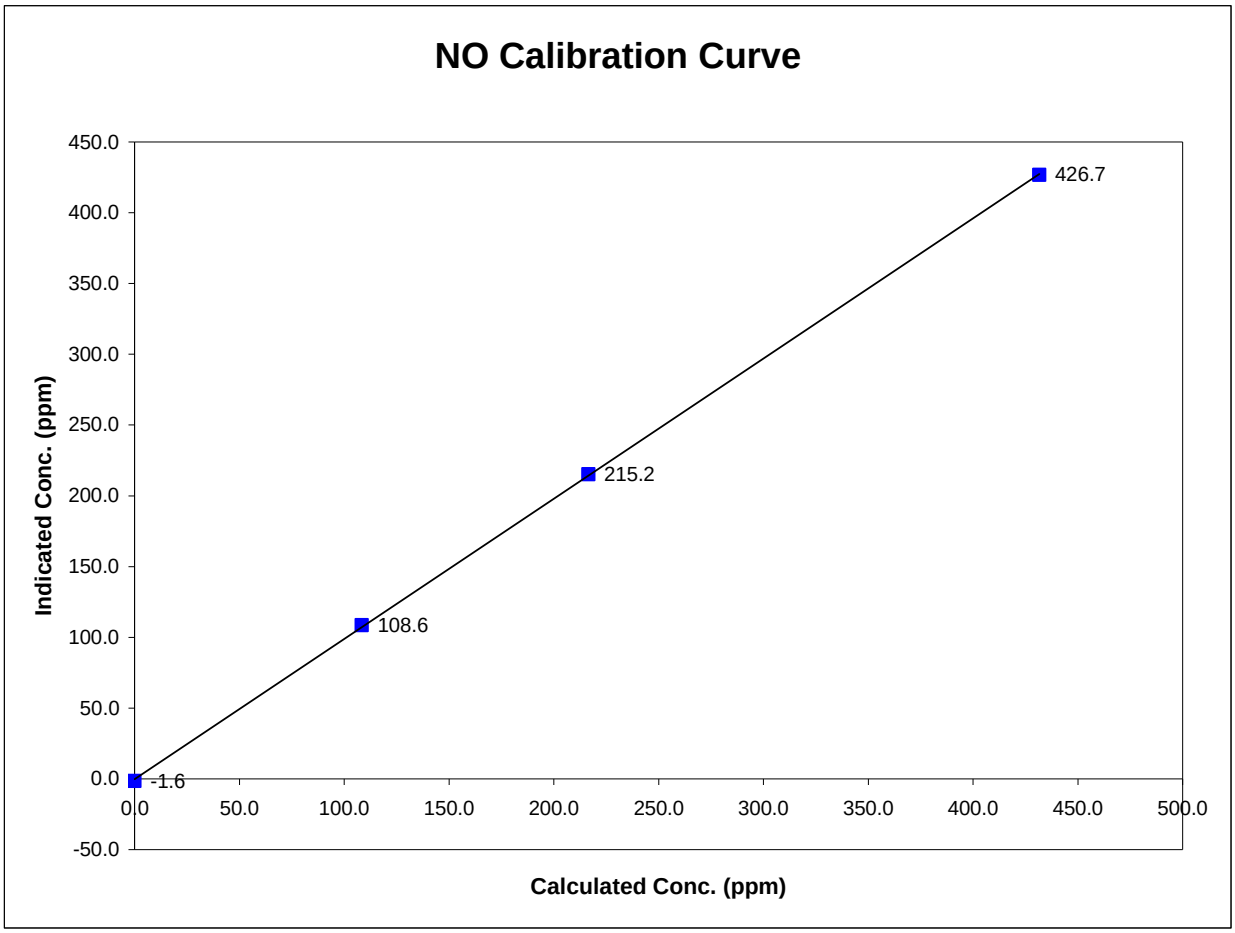
FOCUS AIR QUALITY MONITORING

Station Information

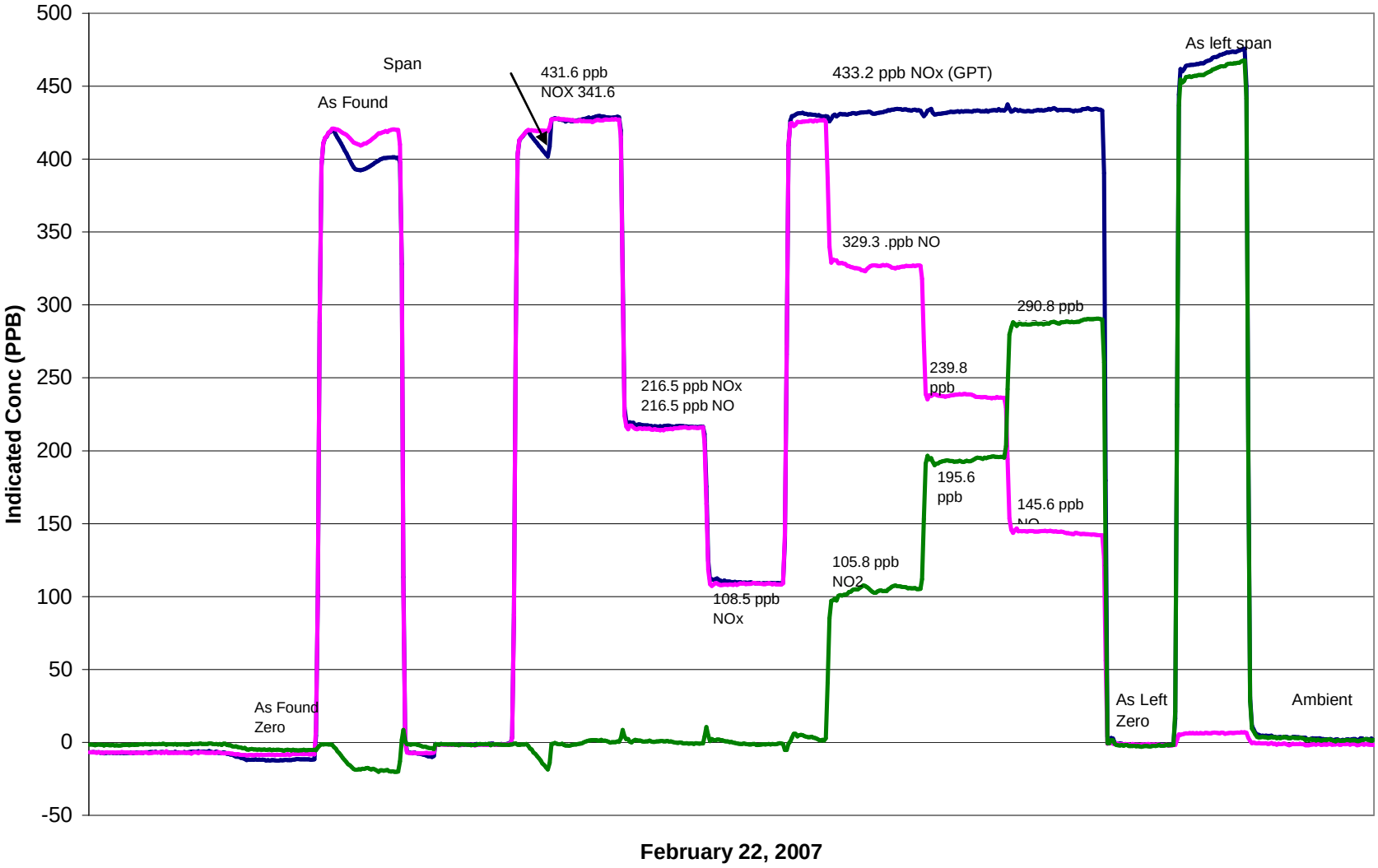
Calibration Date	February 22, 2007	Previous Calibration	February 6, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:36	End Time (MST)	21:00
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.6	N/A		
431.6	426.7	1.0114	Correlation Coefficient	0.999951
216.5	215.2	1.0063		
108.5	108.6	0.9990	Slope	1.009116
			Intercept	0.229705



NOx Calibration



Calibration Report

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 16, 2007
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	9:14	End Time (MST)	
Barometric Pressure	27.1 inches Hg	Station Temperature	20.0 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	1.003945	Calculated slope	1.002000
Calculated intercept	0.015558	Calculated intercept	0.240698

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

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.78	PSI	5.77	PSI
THC span counts	12605	raw	12605	raw
THC zero counts	1370	raw	1370	raw
V Bias	-326	Volts	-326	Volts

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	-0.24	N/A
4991	79.77	24.03	23.78	1.0109
4991	39.85	12.10	11.77	1.0283
4991	9.95	3.04	2.83	1.0729
zero	0.00	0.00	-0.24	As Found Zero
4991	79.77	24.03	23.78	As Found Span
			Average Correction Factor	1.0374

Calculated value of As Found Response: 24.126 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	0.05	ppm	0.03	ppm
Auto span	21.19	ppm	21.08	ppm

Notes:

Calibration Performed By: Lenin Flores, Reid Balawyder

Calibration Summary

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

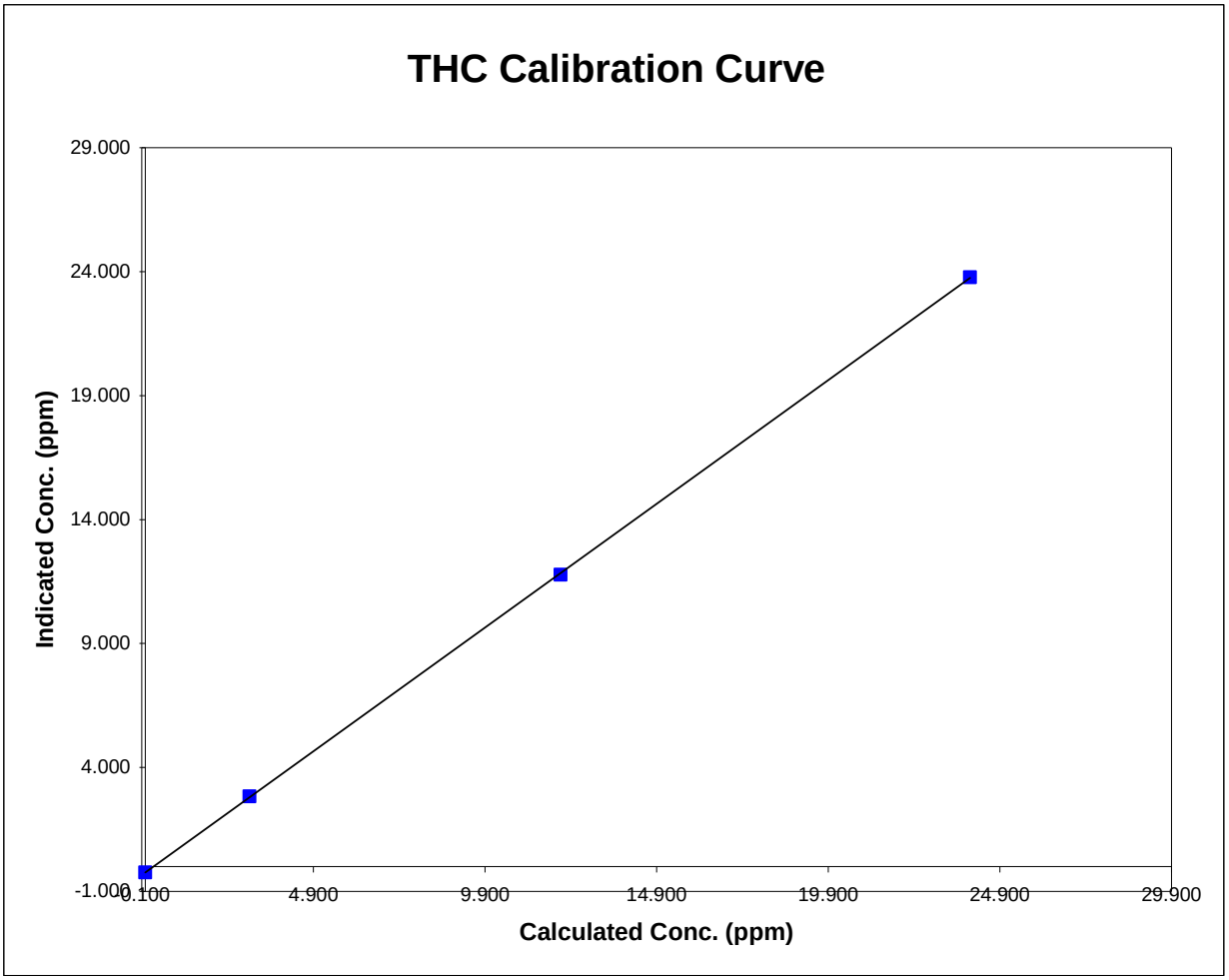
FOCUS AIR QUALITY MONITORING

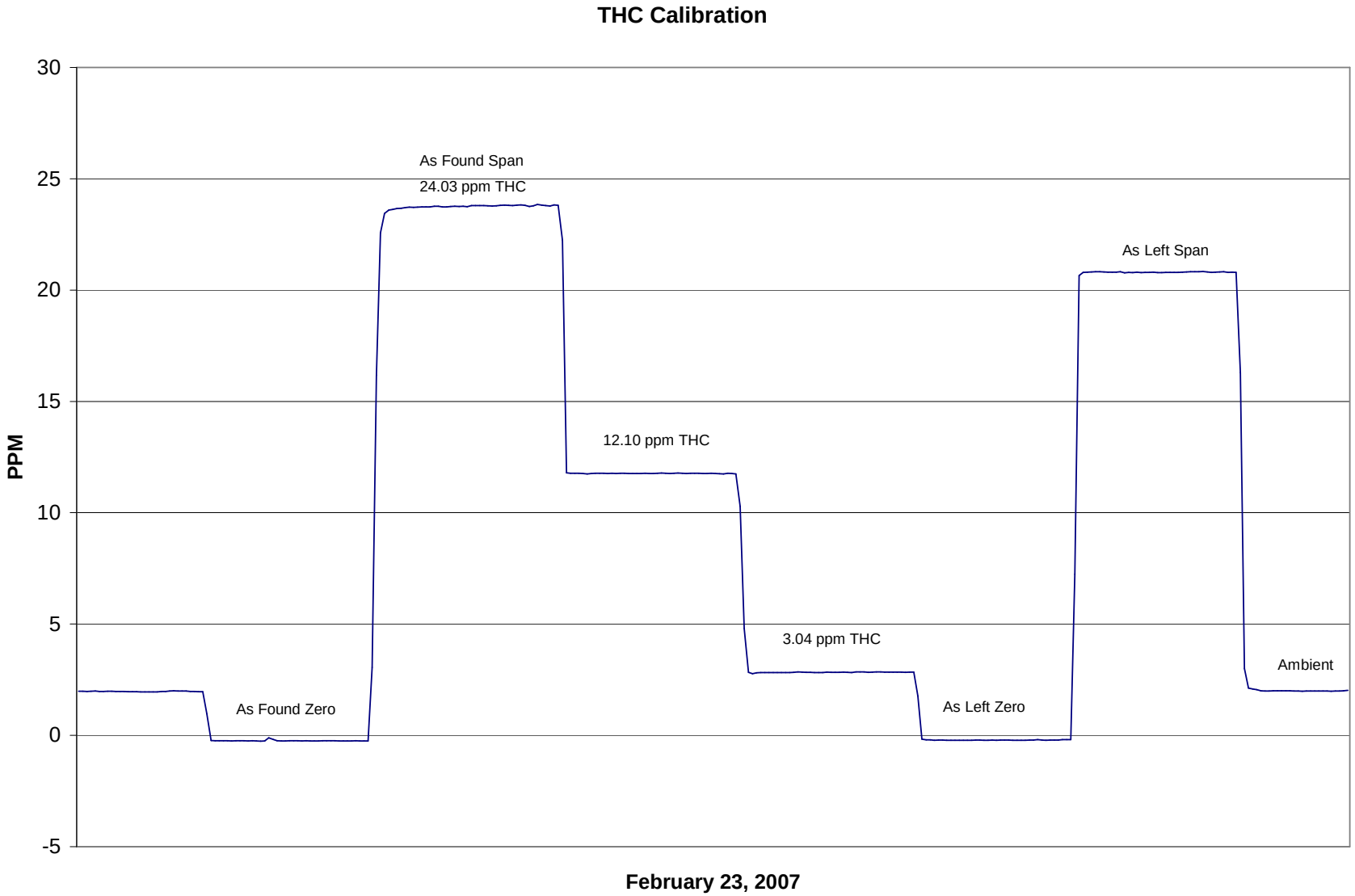
Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 16, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:14	End Time (MST)	0:00
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	-0.241	N/A		
24.034	23.775	1.0109	Correlation Coefficient	0.999980
12.101	11.768	1.0283		
3.040	2.834	1.0729	Slope	1.002000
			Intercept	0.240698




THC Calibration
30
25
20
15
10
5
0
-5
PPM
As Found Span
24.03 ppm THC
As Left Span
12.10 ppm THC
3.04 ppm THC
Ambient
As Found Zero
As Left Zero
February 23, 2007

Calibration Report

Parameter **CO**

Air Monitoring Network **Palliser**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 17, 2007
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	7:43	End Time (MST)	10:05
Barometric Pressure	27.11 in Hg	Station Temperature	20.0 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	0.996402	Calculated slope	0.990425
Calculated intercept	-0.048226	Calculated intercept	-0.432302

Analyzer make	TEI Model 48C	Analyzer serial # 436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.074		1.074	
CO bkg setting	0.001		0.001	
Lamp ratio	1.144651		1.143875	
Lamp intensity	199763	Hz	199973	Hz
Sample Flow	1.006	LPM	0.999	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	0.40	N/A
4991	49.87	29.66	30.36	0.9767
4991	19.90	11.91	12.48	0.9538
4991	9.95	5.97	6.49	0.9196
4991	0.00	0.00	0.40	0.0000
4991	49.87	29.66	30.36	0.9767
			Average Correction Factor	0.9500

Calculated value of As Found Response: 29.809 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	-0.15	ppm	20.74	ppm
Auto span	16.14	ppm	-0.04	ppm

Notes:

Calibration Performed By: Lenin Flores,Reid Balawyder

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

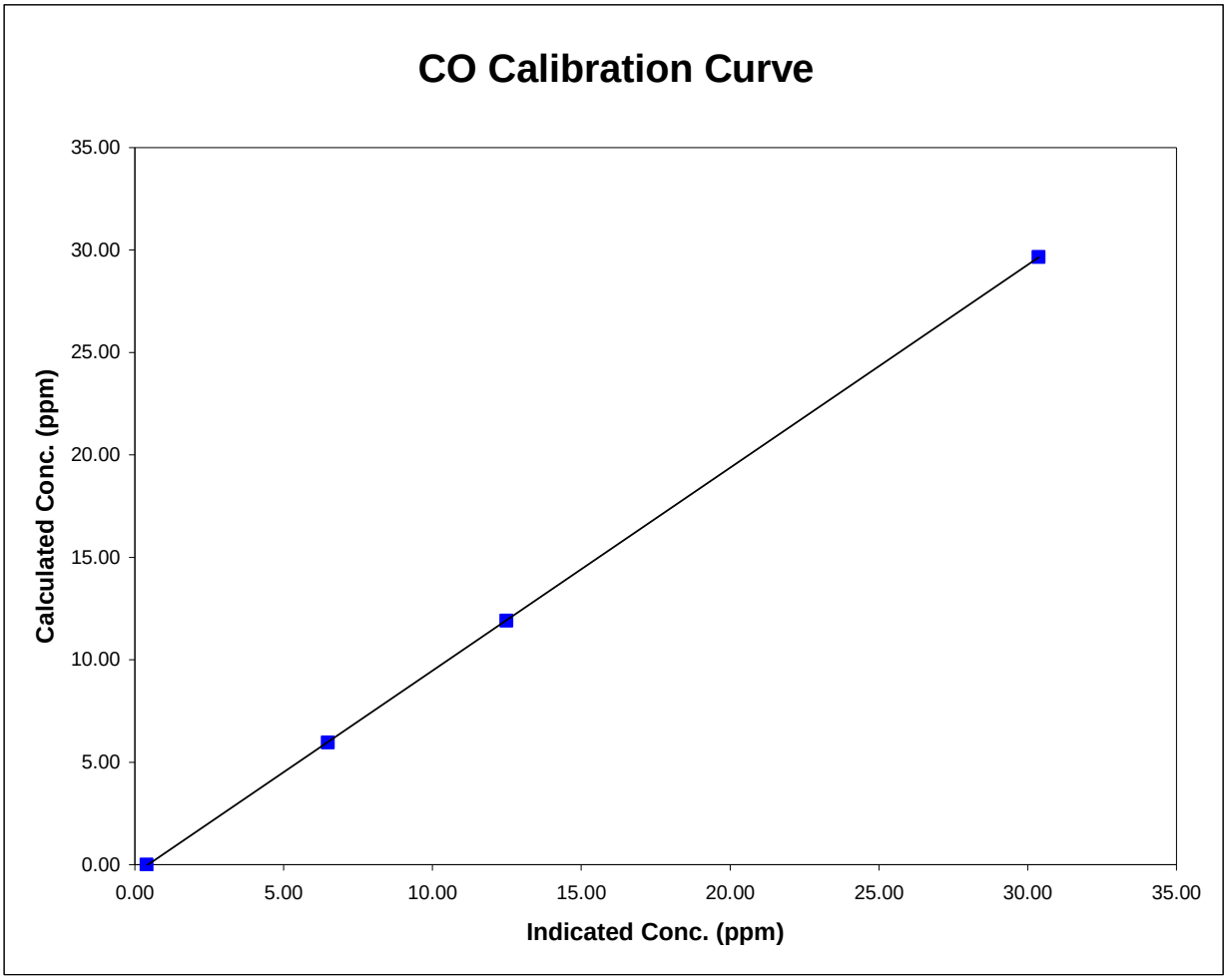
FOCUS AIR QUALITY MONITORING

Station Information

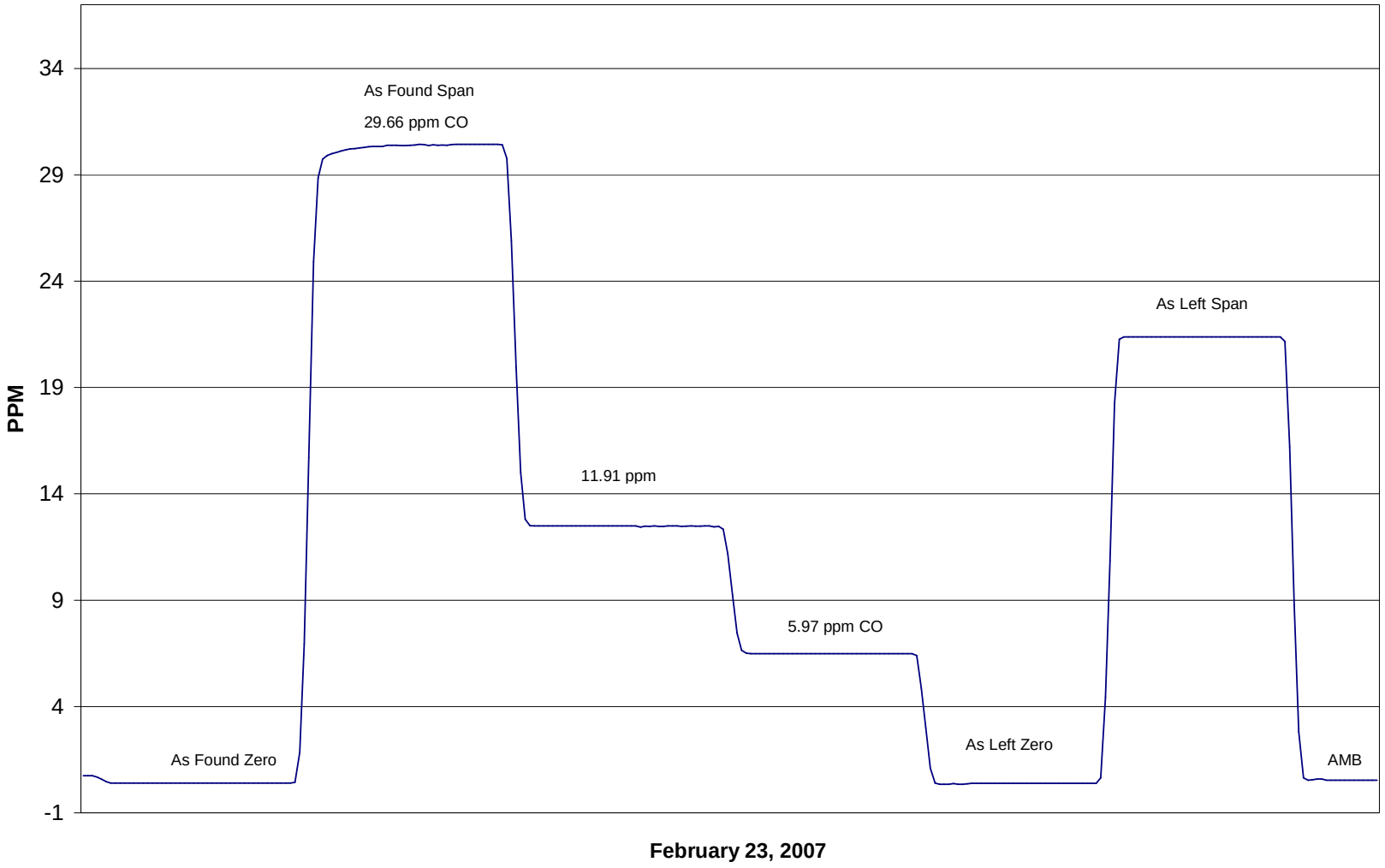
Calibration Date	February 23, 2007	Previous Calibration	January 17, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:43	End Time (MST)	10:05
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.40	N/A		
29.66	30.36	0.9767	Correlation Coefficient	0.999994
11.91	12.48	0.9538		
5.97	6.49	0.9196	Slope	0.990425
			Intercept	-0.432302



CO Calibration



Calibration Report

Parameter **PM2.5**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	February 23, 2007	Previous Calibration	January 17, 2007
Station Number	1	Station Location	Crescent Heights

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

Start Time (MST)	10:21	End Time (MST)	12:15
Barometric Pressure	0.906 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	43%	%	20%	%
Ko Factor	NA		NA	
Temperature	-3.2	Deg C	-2.7	Deg C
Pressure	0.906	ATM	0.906	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.01	0.00	0.01
zero flow - auxillary	0.0	0.00	0.01	0.00
flow recovery - main	45 - 60 Seconds	33.0	45 - 60 Seconds	33.0
flow recovery - aux	46 - 60 Seconds	55.0	46 - 60 Seconds	55.0
Temperature	measured	-3.2	+/- 1.0 Deg C	-2.7
Pressure	measured	0.906	+/- 1.5% Δ_{ATM}	0.906
Total Flow	16.67 SLPM	17.09		16.27
Auxiliary flow	13.67 SLPM	14.24	+/- 1.0 SLPM	13.25
Main flow	3.0 SLPM	3.055	+/- 0.2 SLPM	3.043
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.01	<0.15 SLPM	-0.02
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: Auxiliary flow was adjusted...

Calibration Performed By: Lenin F,Reid B