



Palliser Airshed Society

Ambient Air Monitoring Network Summary

October 2006

Prepared By:



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November 21, 2006

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

Attention: Director of Monitoring and Evaluation

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

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

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

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. Operational uptime of all instruments was 90% or greater for the month of October. There were no significant events leading to emergency response for the month of October.

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

- Monthly average concentrations of NO₂ was 8.9 ppb
- Monthly average concentrations for O₃ was 19.1 ppb
- Monthly average concentrations for CO was 0.14 ppm
- Monthly average concentrations for THC was 2.08 ppm
- Monthly average concentrations for PM_{2.5} was 2.6 µg/m³

The Air Quality Index (AQI) recorded 667 hours of "Good" readings for the month of October.

Passive Monitoring – Six Sites throughout the PAS zone:

The following are the ranges for October 2006 recorded by the six passive stations located throughout the PAS zone. Upon arrival at the Southridge passive station site the technician found the NO₂ passive sampler missing from the shelter, and the O₃ and SO₂ sample were damaged. A search was made of the area but the NO₂ sample filter was not found. Laboratory results were obtained from the damaged O₃ and SO₂ samplers and have been included in this report, however a cautionary note that the samples may have been compromised.

- ◆ Monthly average concentrations for SO₂ passives were all <0.5 ppb.
- ◆ Monthly average concentrations for NO₂ passives ranged from 3.3 ppb to 5.5 ppb
- ◆ Monthly average concentrations for O₃ passives ranged from 17.2 ppb to 25.2 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

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AQM Environmental Specialist



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on October 11th (NO_x, O₃, THC, and CO) and 12th (TEOM). On October 3rd the DACS stopped collecting data and this resulted in twenty-two (22) hours of invalid data for all parameters (NO, NO₂, NO_x, O₃, THC, CO, PM_{2.5}, wind speed, wind direction, relative humidity, temperature and solar radiation). Maintenance was performed on the DACS on October 6th to fix the issues surrounding its failure to collect the data.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No spans on October 7 th , 8 th & 9 th due to DACS errors in the DACS..
Nitrogen Dioxide	Teledyne - API	200E	ppb	No spans on October 7 th , 8 th & 9 th due to DACS errors in the DACS..
Total Hydrocarbons	Bendix	400A	ppm	No spans on October 7 th , 8 th & 9 th due to DACS errors in the DACS..
Carbon Monoxide	TEI	49C	ppm	No spans on October 7 th , 8 th & 9 th due to DACS errors in the DACS..
PM 2.5	R&P TEOM	1400ab	µg/m ³	There were seventeen (17) hours of excessive baseline drift flagged.
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		On October 3 rd the DACS stopped collecting data and this resulted in twenty-two (22) hours of invalid data. Maintenance was performed on the DACS on October 6 th to fix the issues surrounding its failure to collect the data. On October 10 th the DACS was reset in order to collect the daily zero and span data.



October 2006 Monthly Overall Summary Report Ambient Air Quality Data

Oct-2006		Palliser Airshed Society					Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
NO (ppb)			Crescent Heights	4.4	-	-	84.1	Oct-13 07:00	2.8	E	13.9	Oct-05	96.9%
NO ₂ (ppb)	212	106	Crescent Heights	8.9	0	0	37.6	Oct-05 20:00	5.8	SSE	17.2	Oct-05	96.9%
NO _x (ppb)			Crescent Heights	12.9	-	-	106.5	Oct-13 07:00	2.8	E	30.8	Oct-05	96.9%
O ₃ (ppb)	82		Crescent Heights	19.1	0	-	40.7	Oct-09 15:00	23.6	SW	26.7	Oct-07	96.9%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						37.1	Oct-09	
CO (ppm)	13		Crescent Heights	0.14	0	-	0.9	Oct-13 07:00	2.8	E	0.2	Oct-05	96.9%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.4	Oct-13	
THC (ppm)			Crescent Heights	2.08	-	-	3.2	Oct-04 20:00	4.7	S	2.3	Oct-28	96.9%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.6		0	22.2	Oct-06 19:00	3.8	NNW	6.0	Oct-06	94.6%
RH (%)			Crescent Heights	64.4	-	-	-	-	-	-	-	-	96.8%
SR (W/m ²)			Crescent Heights	89.0	-	-	-	-	-	-	-	-	96.8%
Temp (°C)			Crescent Heights	4.6	-	-	-	-	-	-	-	-	96.8%
WSPD v (km/hr)			Crescent Heights	2.6	-	-	27.3	Oct-24 11:00	27.3	SSW	17.8	Oct-29	96.8%
WSPD s (km/hr)			Crescent Heights	10.6	-	-	27.5	Oct-24 11:00	27.5	SSW	18.3	Oct-29	96.8%
WDIR			Crescent Heights	NW	-	-	-	-	-	-	-	-	96.8%

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: October 1, 2006 to November 1, 2006

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	667
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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Oct-06	15	17	12	11	8	7	7	11	14	15	15	N	18	19	18	N	18	16	13	14	N	10	9	5
2-Oct-06	8	6	6	4	7	5	3	6	10	13	15	N	N	19	19	19	18	17	16	N	14	14	13	13
3-Oct-06	12	13	13	12	12	11	10	7	8	11	13	14	N	N	N	N	N	N	N	N	N	N	N	N
4-Oct-06	N	N	N	N	N	N	N	N	N	N	10	13	15	17	18	19	20	N	10	8	8	9	5	5
5-Oct-06	6	5	4	4	4	4	9	6	5	12	15	16	17	18	18	18	N	16	9	7	9	9	7	5
6-Oct-06	7	6	9	6	10	6	5	N	N	N	N	N	17	18	19	N	18	14	8	18	13	9	10	5
7-Oct-06	14	11	N	13	14	12	16	13	10	11	11	14	15	18	19	19	18	13	16	14	11	10	11	12
8-Oct-06	10	8	7	7	6	5	5	7	8	9	9	8	10	13	16	15	14	14	14	8	7	9	5	6
9-Oct-06	4	6	6	3	3	3	3	4	5	9	12	N	19	19	20	20	19	18	16	13	15	16	16	15
10-Oct-06	N	16	N	15	12	9	N	5	N	N	11	14	12	12	15	14	14	12	13	12	11	13	15	14
11-Oct-06	13	N	N	10	N	8	5	6	9	10	11	11	N	N	17	14	1	1	3	5	6	5	4	7
12-Oct-06	4	4	N	3	5	7	4	N	N	N	N	N	N	N	N	17	17	18	17	17	16	14	13	14
13-Oct-06	13	12	N	4	6	4	5	6	4	7	12	15	17	18	18	19	18	14	16	15	11	7	4	3
14-Oct-06	4	N	5	4	5	4	5	4	3	7	9	11	13	17	17	17	15	14	10	13	13	12	10	6
15-Oct-06	N	6	6	4	4	3	3	4	4	6	5	4	5	4	4	3	2	2	4	6	5	5	6	N
16-Oct-06	10	11	11	11	10	10	10	10	10	10	10	10	11	11	10	11	11	12	11	11	11	13	N	11
17-Oct-06	9	9	9	6	4	5	3	4	7	8	9	10	11	12	13	10	9	7	5	3	4	N	3	3
18-Oct-06	6	9	10	10	10	9	8	8	10	10	10	13	12	11	10	7	7	5	5	7	N	5	4	4
19-Oct-06	4	4	4	3	3	4	3	3	4	6	9	11	11	11	13	14	14	14	12	N	10	10	10	10
20-Oct-06	8	5	6	5	6	5	4	3	5	5	8	8	6	3	5	5	7	9	N	8	6	4	5	4
21-Oct-06	4	3	3	3	2	2	3	3	4	7	9	10	11	13	15	15	14	N	13	10	6	6	5	3
22-Oct-06	3	4	5	5	5	4	3	3	3	4	8	11	16	17	17	17	N	7	7	6	10	9	6	4
23-Oct-06	4	5	4	8	10	11	8	5	5	4	8	8	11	13	16	N	14	8	8	6	5	5	5	4
24-Oct-06	5	4	4	4	8	5	5	6	8	11	16	19	19	18	N	19	15	15	14	13	13	8	9	12
25-Oct-06	11	10	11	13	11	8	6	7	6	8	15	15	16	N	16	17	16	7	7	8	7	9	10	10
26-Oct-06	10	10	10	10	10	10	9	9	13	13	15	17	N	15	16	17	16	15	15	13	16	17	14	8
27-Oct-06	8	9	5	5	8	6	7	8	5	4	4	N	8	15	19	19	17	16	15	12	5	5	6	4
28-Oct-06	5	5	5	5	4	5	3	3	3	4	N	6	8	9	10	10	8	10	9	9	6	6	5	4
29-Oct-06	4	9	11	11	10	9	12	12	12	N	14	13	14	12	13	12	12	14	15	15	15	16	16	16
30-Oct-06	16	16	16	15	13	9	10	9	N	15	16	16	16	17	17	17	15	11	9	8	10	13	12	12
31-Oct-06	12	13	13	12	12	10	7	N	8	11	13	13	15	16	16	16	13	13	13	14	13	13	13	12



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

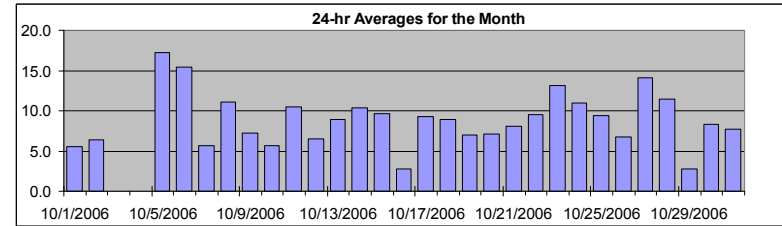
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	37.6 ppb 5-Oct 20:00 21:00
Maximum 24-hr Average:	17.2 ppb 5-Oct



AIC Time:	29 hrs	Operational Time:	684 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	29.8	21.1	12.6	7.3	3.8	1.7	1.2	8.9 ppb	7.3 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																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Oct-06	9	4	13	11	10	9	6	3	1	1	1	1	1	1	1	1	1	3	7	5	A	11	10	16		5.6	16.1	
2-Oct-06	9	12	10	17	7	12	14	13	7	3	3	2	2	1	2	2	3	3	3	A	7	5	6	5		6.4	17.0	
3-Oct-06	6	4	3	3	3	4	6	14	12	6	4	4	N	N	N	N	N	N	N	N	N	N	N	N		N	13.8	
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	13	11	8	7	5	4	3	A	24	34	33	28	21	23		N	34.0
5-Oct-06	25	22	17	16	17	19	21	21	19	8	3	3	3	3	8	12	A	17	26	30	38	31	21	17		17.2	37.6	
6-Oct-06	14	15	9	13	5	14	19	M	C	C	C	C	9	10	7	7	8	14	24	32	33	24	18	17		15.4	33.3	
7-Oct-06	10	5	4	4	5	5	3	5	8	5	7	5	4	3	3	3	4	10	5	6	11	10	6	6		5.7	10.8	
8-Oct-06	9	10	8	7	8	9	10	7	6	7	10	17	16	11	6	8	9	8	9	16	17	12	22	23		11.0	23.1	
9-Oct-06	18	21	19	14	14	14	10	7	5	3	4	3	2	2	2	2	3	4	5	8	4	3	3	3		7.2	20.7	
10-Oct-06	2	2	1	2	4	7	15	20	A	A	11	9	10	9	4	5	3	4	3	3	3	2	3	3		5.6	20.5	
11-Oct-06	2	2	A	7	9	10	13	10	7	C	C	C	C	A	3	3	3	4	14	20	27	22	19	13		10.5	26.8	
12-Oct-06	16	18	A	14	14	15	15	14	10	5	3	3	1	2	1	1	2	2	2	2	2	3	3	1		6.5	17.5	
13-Oct-06	1	2	A	16	25	18	20	23	17	7	3	2	1	2	1	2	2	8	3	3	6	14	15	14		8.9	24.9	
14-Oct-06	13	A	11	15	20	18	21	15	13	12	11	12	8	2	3	3	5	5	12	6	5	8	9	12		10.4	20.6	
15-Oct-06	A	15	10	13	15	14	14	18	15	9	12	10	7	7	7	9	10	8	6	3	4	4	4	A		9.6	17.8	
16-Oct-06	6	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	A	6		2.8	6.1
17-Oct-06	6	5	5	8	12	10	13	14	9	10	7	8	9	7	5	8	6	10	12	14	17	A	11	7		9.3	16.6	
18-Oct-06	6	3	3	3	4	6	8	10	5	3	7	4	7	7	7	11	11	20	19	9	A	23	17	15		8.9	22.7	
19-Oct-06	13	10	8	9	10	11	11	13	10	8	5	4	6	6	5	4	4	4	4	A	5	4	4	4		7.0	12.9	
20-Oct-06	5	7	6	7	4	4	7	11	12	13	7	5	7	7	4	6	5	4	A	8	10	11	7	8		7.1	12.8	
21-Oct-06	7	7	9	9	10	10	14	13	10	7	4	3	3	2	2	3	3	A	7	9	15	13	12	11		8.0	14.9	
22-Oct-06	10	8	7	6	7	9	12	12	9	13	10	9	3	3	3	4	A	21	15	14	6	8	11	17		9.5	21.2	
23-Oct-06	16	20	18	7	6	5	9	12	10	10	6	5	3	3	5	A	12	23	34	25	20	20	20	16		13.1	33.6	
24-Oct-06	19	14	17	14	10	21	20	15	14	9	4	3	3	3	A	7	10	8	7	6	8	17	15	7		10.9	20.7	
25-Oct-06	5	5	5	4	4	11	13	17	15	14	9	5	4	A	9	8	7	21	21	12	11	6	4	4		9.4	21.1	
26-Oct-06	3	3	2	3	4	6	8	9	5	4	4	5	A	14	11	7	6	7	7	13	4	3	8	18		6.7	18.0	
27-Oct-06	15	10	21	22	13	20	19	16	18	18	A	23	10	3	2	4	4	4	4	6	19	22	24	13		14.1	24.3	
28-Oct-06	10	20	20	22	19	19	13	14	14	9	A	11	7	6	5	7	9	5	6	5	11	9	10	10		11.4	22.4	
29-Oct-06	10	4	2	3	4	4	2	2	2	A	4	3	2	2	2	2	2	2	2	2	2	1	1	1		2.7	10.3	
30-Oct-06	1	1	2	2	6	13	12	15	A	6	4	4	6	4	4	5	8	16	21	23	14	8	9	8		8.3	22.6	
31-Oct-06	7	4	5	6	5	9	15	A	17	10	6	7	5	4	4	4	10	11	9	8	10	8	7	8		7.7	16.5	
Hourly Avg	9.4	8.9	8.8	9.3	9.2	11.0	12.2	12.4	10.2	7.8	6.4	5.7	5.7	5.0	4.2	4.8	5.5	8.8	10.8	11.6	12.3	11.5	11.0	10.6				
Hourly Max	25.1	22.3	20.9	22.4	24.9	20.7	21.3	22.5	19.4	17.6	17.9	17.2	22.9	14.1	11.0	11.6	11.5	23.0	33.6	34.0	37.6	31.1	24.3	23.1				

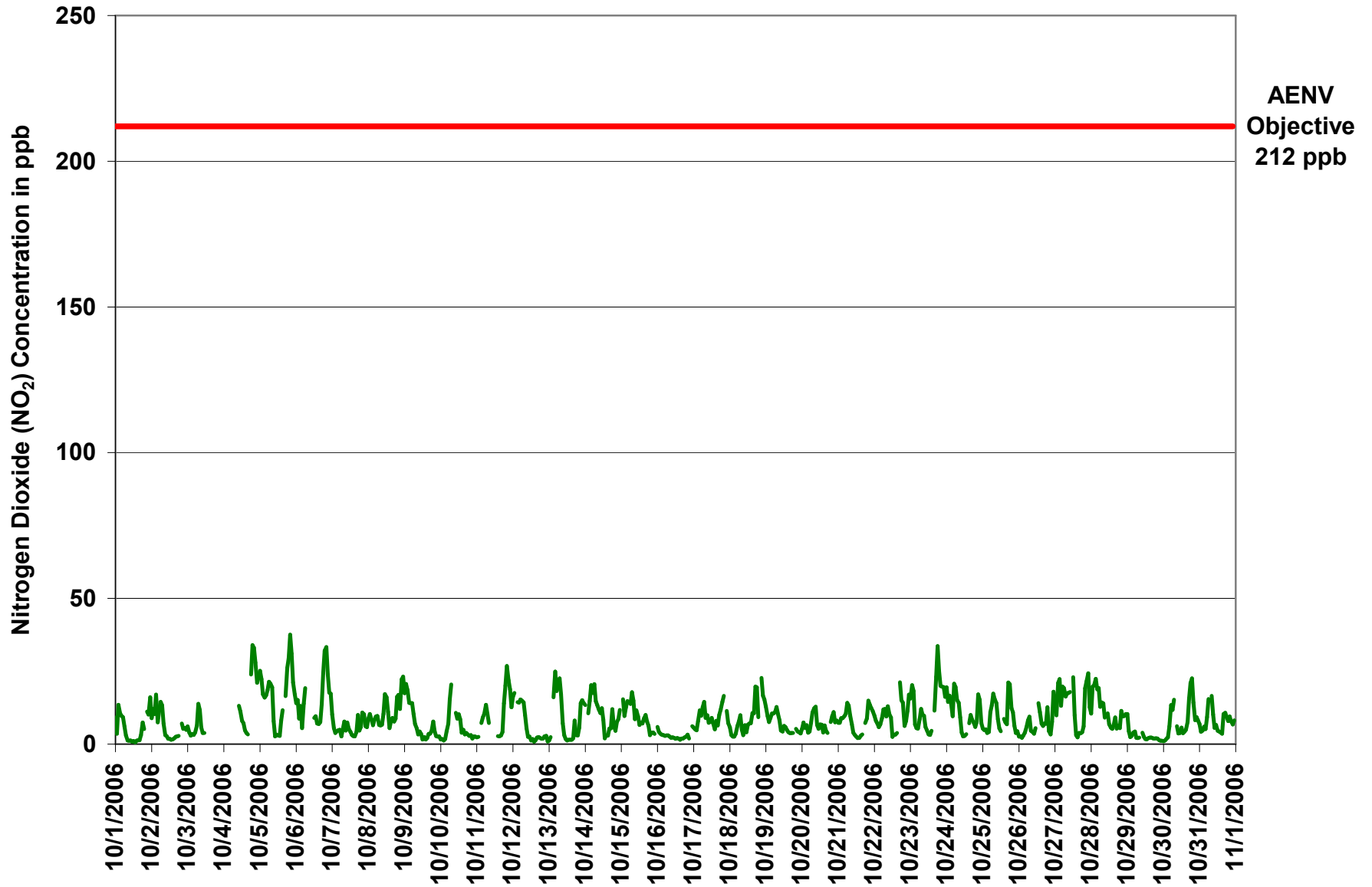


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

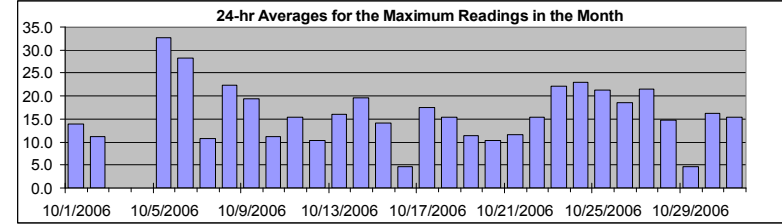
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	87.6	ppb	5-Oct	20:00 21:00
Maximum 24-hr Value:	32.8	ppb	5-Oct	



AIC Time:	29 hrs	Operational Time:	684 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.7	37.9	23.1	13.8	6.6	3.2	2.3	16.1 ppb	13.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Oct-06	77	17	33	22	13	14	8	6	2	3	3	2	4	3	4	4	3	6	13	11	A	24	22	25	13.9	77.3	
2-Oct-06	27	28	22	32	10	15	20	22	11	4	4	3	3	3	3	4	5	5	4	A	12	6	7	7	11.3	32.4	
3-Oct-06	8	6	4	4	4	6	10	18	15	15	5	6	N	N	N	N	N	N	N	N	N	N	N	N	N	N	17.7
4-Oct-06	N	N	N	N	N	N	N	N	N	N	16	22	20	11	7	7	5	A	35	54	36	43	29	26	N	54.2	
5-Oct-06	28	26	25	24	20	26	36	29	30	23	4	27	18	7	41	41	A	45	50	48	88	54	40	25	32.8	87.6	
6-Oct-06	47	24	37	47	9	24	32	M	C	C	C	C	C	34	21	14	11	16	27	42	37	42	29	23	28.3	47.1	
7-Oct-06	20	19	5	10	13	11	4	12	12	9	12	10	9	5	5	4	10	18	11	12	15	15	9	7	10.7	20.3	
8-Oct-06	28	35	12	8	25	26	26	28	28	16	17	22	18	20	8	23	29	11	14	23	28	16	39	39	22.4	38.7	
9-Oct-06	24	23	23	18	16	28	13	9	7	4	62	25	8	18	3	4	32	17	7	31	6	35	29	26	19.5	62.3	
10-Oct-06	16	27	3	5	7	17	24	25	A	A	17	15	16	13	7	5	6	6	5	4	3	5	4	11.1	26.7		
11-Oct-06	4	4	A	9	11	14	17	17	11	C	C	C	C	A	4	6	6	16	28	26	36	27	24	16	15.3	36.1	
12-Oct-06	20	26	A	22	16	17	18	16	26	23	4	4	3	10	2	3	4	3	4	3	3	5	5	2	10.3	26.4	
13-Oct-06	2	4	A	21	54	26	31	29	25	14	5	4	3	3	3	4	5	15	6	13	27	28	24	21	15.9	54.5	
14-Oct-06	21	A	15	22	23	22	47	20	15	16	13	15	12	4	9	15	39	7	40	9	8	21	33	27	19.7	46.9	
15-Oct-06	A	31	15	14	20	22	18	20	18	26	23	11	10	9	10	11	11	11	11	4	5	5	5	A	14.1	31.1	
16-Oct-06	9	6	4	4	4	4	4	4	4	3	4	3	3	13	3	3	3	3	4	3	6	4	A	8	4.7	12.9	
17-Oct-06	7	6	9	12	16	20	16	17	24	16	21	14	49	17	8	13	9	15	16	18	25	A	22	30	17.4	48.8	
18-Oct-06	30	5	4	3	6	16	9	17	23	4	13	7	10	11	10	14	12	26	36	15	A	27	22	30	15.3	36.3	
19-Oct-06	30	12	10	13	21	22	14	20	15	20	7	8	9	10	6	6	5	6	5	A	8	5	6	5	11.3	30.1	
20-Oct-06	7	10	8	10	5	7	10	13	14	15	10	9	11	11	8	9	8	6	A	10	13	14	10	19	10.4	18.7	
21-Oct-06	19	11	13	11	15	16	17	17	12	10	5	5	4	3	3	4	6	A	11	12	24	16	18	15	11.6	23.9	
22-Oct-06	18	11	11	8	9	18	14	15	17	24	15	29	4	8	5	6	A	41	24	22	11	12	13	20	15.4	41.3	
23-Oct-06	22	31	36	10	10	12	24	21	14	13	10	8	5	7	12	A	21	26	38	42	52	28	43	21	22.1	52.3	
24-Oct-06	26	26	34	22	15	40	24	24	34	13	20	5	6	26	A	9	32	13	19	26	26	30	32	26	22.9	39.9	
25-Oct-06	32	23	29	30	7	27	18	25	23	20	25	8	8	A	12	26	14	35	33	19	25	12	23	15	21.2	35.2	
26-Oct-06	4	4	3	6	6	40	23	14	7	36	20	28	A	28	17	20	8	28	24	41	10	6	20	31	18.5	41.4	
27-Oct-06	31	22	40	34	19	31	25	24	26	23	23	A	29	19	5	3	6	5	6	17	28	27	27	23	21.4	40.4	
28-Oct-06	14	24	23	32	23	21	16	16	15	12	A	17	8	8	7	9	12	7	10	8	22	12	13	13	14.8	31.9	
29-Oct-06	14	12	4	4	8	7	3	3	3	A	7	4	3	3	3	4	4	3	3	4	5	2	2	2	4.7	14.0	
30-Oct-06	2	2	4	5	9	18	20	20	A	10	5	6	9	9	8	11	15	41	25	40	25	16	34	37	16.2	40.5	
31-Oct-06	12	7	33	8	7	35	52	A	25	20	10	11	7	7	7	7	14	15	15	11	14	12	15	11	15.4	51.5	
Hourly Avg	20.7	16.6	17.0	15.7	14.1	20.0	19.8	17.9	17.0	15.2	13.6	11.6	11.5	11.0	8.3	9.9	12.1	16.3	18.6	20.2	21.5	18.4	20.5	19.0			
Hourly Max	77.3	34.6	40.4	47.1	54.5	40.4	51.5	28.8	33.7	35.8	62.3	28.9	48.8	27.6	40.8	40.9	39.3	44.9	49.7	54.2	87.6	53.9	42.7	38.6			

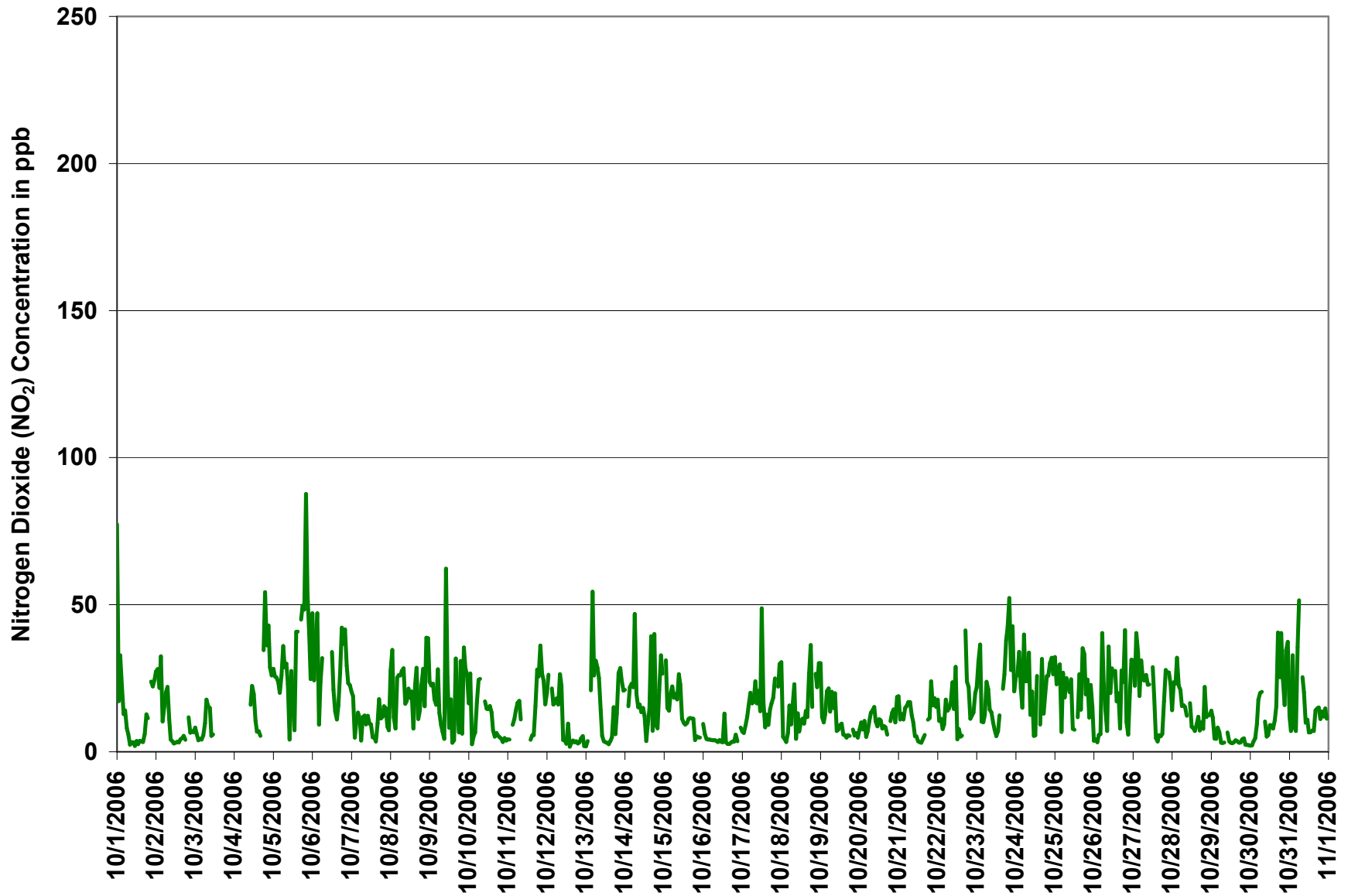
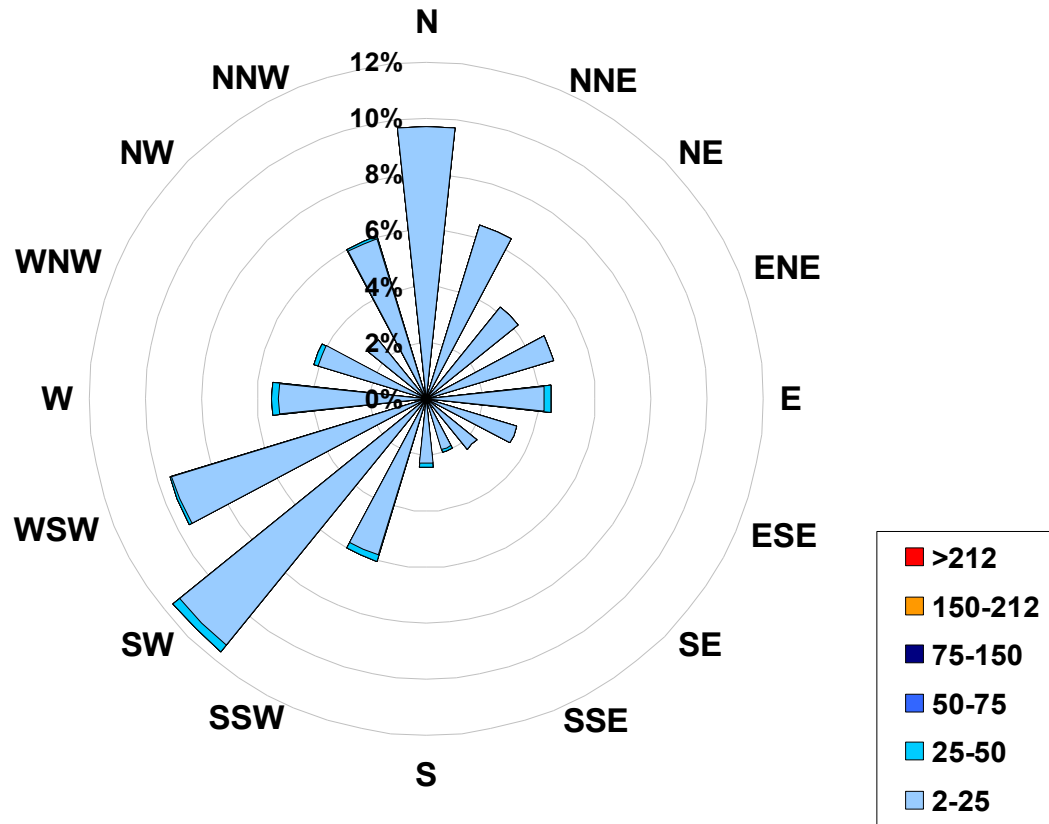


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		668
25	to 50		14
50	to 75		1
75	to 150		1
150	to 212		0
	> 212		0
Total Non-Zero Values			684



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

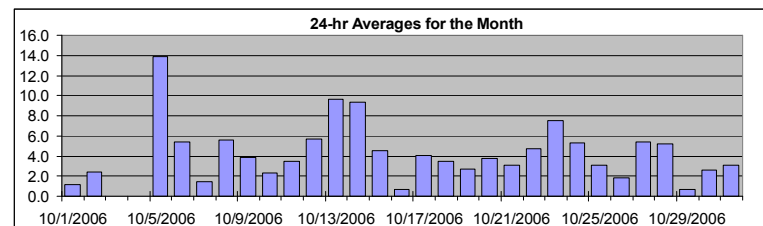
Monitoring Dates: October 1, 2006 to November 1, 2006

Guideline Limit:
Summary

1-hr na ppb 24-hr na ppb

Maximum 1-hr Average: 84.1 ppb 13-Oct 7:00 8:00
Maximum 24-hr Average: 13.9 ppb 5-Oct

AIC Time: 29 hrs Operational Time: 684 hrs
Calibration Time: 8 hrs AMD Operational Uptime: 96.9%
Percentile 99 95 75 50 25 5 1 Average Median
33.2 15.1 4.9 2.0 0.9 0.3 0.0 4.4 ppb 2.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-06	5	0	5	1	0	1	1	1	1	0	1	0	1	0	1	0	1	0	1	0	A	1	1	2	1.2	5.5	
2-Oct-06	4	8	3	13	1	2	5	6	3	2	1	1	1	1	1	1	0	1	0	A	1	0	1	0	2.4	12.5	
3-Oct-06	0	0	0	0	0	0	1	3	6	2	1	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5.9
4-Oct-06	N	N	N	N	N	N	N	N	N	N	11	7	4	3	1	1	0	A	4	24	21	23	5	3	N	23.6	
5-Oct-06	13	7	8	5	8	25	54	45	40	5	1	2	1	1	8	5	A	2	8	7	32	33	7	2	13.9	54.2	
6-Oct-06	5	2	3	7	0	2	8	M	C	C	C	C	7	5	3	2	2	2	7	9	28	8	3	2	5.4	27.8	
7-Oct-06	2	1	1	1	1	1	1	2	3	2	4	2	2	2	1	1	1	2	1	1	1	1	1	1	1.5	3.5	
8-Oct-06	6	10	1	1	4	7	6	4	5	5	8	18	14	7	2	2	2	1	0	1	2	1	13	11	5.5	18.0	
9-Oct-06	3	9	15	5	6	11	5	4	5	3	6	4	0	2	1	1	2	2	0	3	0	2	2	1	3.8	14.5	
10-Oct-06	1	2	0	0	1	2	6	15	A	A	3	2	3	3	2	2	1	1	1	1	1	0	1	1	2.3	15.5	
11-Oct-06	1	0	A	1	1	1	3	4	3	C	C	C	C	A	0	0	0	0	2	3	14	13	15	2	3.5	14.8	
12-Oct-06	19	27	A	4	7	11	22	16	13	4	1	2	1	2	1	1	1	0	0	0	0	0	0	0	5.7	26.5	
13-Oct-06	0	0	A	1	28	6	28	84	37	8	3	1	1	1	1	1	1	2	0	0	2	11	4	3	9.7	84.1	
14-Oct-06	3	A	1	6	14	14	45	41	31	15	10	10	5	1	2	2	3	1	4	1	1	2	4	3	9.4	44.9	
15-Oct-06	A	3	1	1	3	7	3	16	15	5	9	7	4	3	4	3	4	3	2	1	1	1	1	A	4.5	16.2	
16-Oct-06	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	A	1	0.7	1.4	
17-Oct-06	0	0	0	1	3	7	4	11	4	3	5	4	6	3	2	2	2	2	3	5	15	A	7	3	4.0	14.5	
18-Oct-06	2	0	1	0	1	2	1	4	4	2	5	3	4	4	3	4	3	8	13	3	A	5	2	6	3.5	13.1	
19-Oct-06	6	1	0	1	3	6	4	10	6	8	3	3	3	3	2	1	0	0	0	A	0	0	0	0	2.7	9.9	
20-Oct-06	1	2	2	1	1	1	2	5	11	15	2	3	5	9	4	5	3	2	A	1	1	3	2	5	3.8	14.9	
21-Oct-06	10	2	3	2	7	4	8	5	3	3	2	2	2	2	1	2	2	A	2	1	2	2	2	2	3.1	9.7	
22-Oct-06	3	2	1	1	1	3	3	8	17	29	11	9	1	1	1	1	A	4	1	2	0	1	2	8	4.7	29.3	
23-Oct-06	4	12	13	0	1	1	6	6	8	9	5	4	2	3	2	A	2	3	15	25	6	17	18	11	7.6	24.6	
24-Oct-06	23	7	9	3	1	11	11	7	11	5	3	1	2	3	A	2	3	1	2	1	3	6	6	2	5.3	23.2	
25-Oct-06	3	1	1	2	0	7	4	7	7	4	3	3	2	A	2	3	1	4	3	1	6	1	2	1	3.1	7.4	
26-Oct-06	0	0	0	1	0	2	2	2	2	2	2	4	A	5	3	3	1	1	1	6	1	1	1	3	1.8	5.6	
27-Oct-06	1	1	9	8	1	8	4	4	7	13	15	A	14	4	1	1	1	0	0	1	5	7	13	4	5.4	15.2	
28-Oct-06	1	6	5	12	11	21	5	7	15	9	A	6	4	3	2	2	2	0	0	0	2	1	2	2	5.2	20.7	
29-Oct-06	2	1	0	0	1	1	0	0	0	A	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0.7	1.7	
30-Oct-06	0	0	0	0	1	2	1	2	A	2	2	2	3	2	2	1	2	7	5	13	2	1	4	2	2.6	13.4	
31-Oct-06	0	0	3	0	0	4	9	A	11	8	5	6	4	3	2	2	2	2	2	1	1	1	1	1	3.0	10.9	
Hourly Avg	4.1	3.7	3.2	2.6	3.5	5.7	8.4	11.5	9.9	6.3	4.5	3.9	3.5	2.8	2.0	1.8	1.6	1.9	2.8	4.1	5.4	5.0	4.1	2.9			
Hourly Max	23.2	26.5	14.5	12.5	28.0	25.1	54.2	84.1	39.6	29.3	15.2	18.0	14.1	8.5	7.6	5.1	4.2	7.8	15.3	24.6	32.5	32.5	17.8	11.4			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

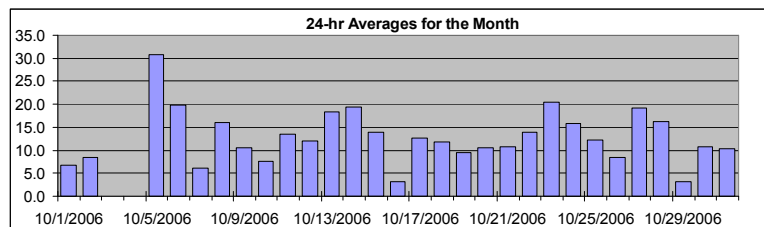
Monitoring Dates: October 1, 2006 to November 1, 2006

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	106.5	ppb	13-Oct	7:00 8:00
Maximum 24-hr Average:	30.8	ppb	5-Oct	



AIC Time:	29 hrs	Operational Time:	684 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	59.1	34.7	17.2	9.5	4.6	2.1	1.4	12.9 ppb	9.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-06	14	4	19	12	10	10	7	5	2	2	2	1	2	1	2	2	2	3	8	6	A	12	11	18	6.7	19.0	
2-Oct-06	13	20	13	29	8	14	19	19	10	4	4	2	2	2	2	2	3	3	3	A	7	5	6	5	8.5	29.4	
3-Oct-06	6	4	3	3	3	4	7	17	17	8	5	5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	17.5
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	24	18	12	10	6	5	4	A	28	58	53	51	26	26	N	57.5
5-Oct-06	38	30	25	21	25	43	75	66	59	13	3	5	4	4	15	16	A	18	34	36	70	63	28	19	30.8	75.4	
6-Oct-06	19	17	11	20	5	16	27	M	C	C	C	C	14	13	9	8	8	15	30	39	60	30	19	18	19.9	59.9	
7-Oct-06	11	6	3	4	5	5	2	6	9	6	10	6	6	4	3	3	5	11	5	6	11	11	6	6	6.2	11.4	
8-Oct-06	14	20	9	7	12	16	15	10	11	11	18	35	29	18	7	9	11	8	9	17	19	12	35	34	16.0	34.7	
9-Oct-06	20	29	33	19	20	24	15	11	10	5	10	7	2	4	2	2	5	5	5	11	4	4	4	3	10.6	32.6	
10-Oct-06	2	4	1	2	5	8	21	36	A	A	14	11	14	12	5	6	4	5	4	3	4	2	3	3	7.7	35.8	
11-Oct-06	3	3	A	8	10	11	16	14	10	C	C	C	C	A	2	2	2	4	16	22	40	34	33	15	13.6	40.2	
12-Oct-06	34	44	A	18	21	26	37	30	22	10	4	4	2	3	1	2	3	3	2	2	2	3	3	1	12.0	43.7	
13-Oct-06	1	3	A	17	53	24	47	106	54	15	6	3	2	2	2	2	10	3	3	7	25	19	17	18.4	106.5		
14-Oct-06	16	A	11	21	34	31	65	55	44	27	20	22	13	3	4	4	8	6	16	7	5	9	12	15	19.5	65.2	
15-Oct-06	A	19	11	13	17	21	16	34	30	13	20	17	10	10	11	12	14	11	8	4	5	5	4	A	13.8	33.7	
16-Oct-06	6	4	4	3	3	3	4	4	3	2	3	3	2	3	3	2	2	2	3	3	4	2	A	7	3.2	6.7	
17-Oct-06	6	5	5	8	14	16	16	25	13	13	11	11	14	10	6	9	8	11	14	19	30	A	17	10	12.6	29.8	
18-Oct-06	7	3	2	2	4	7	9	14	9	5	11	6	10	10	10	14	14	27	32	12	A	27	18	21	11.9	32.3	
19-Oct-06	19	10	8	10	14	17	15	22	16	16	8	7	9	8	6	5	4	4	4	A	5	4	4	3	9.4	22.3	
20-Oct-06	6	9	7	8	4	6	10	16	23	28	8	8	11	15	8	11	7	6	A	9	11	14	9	13	10.6	27.6	
21-Oct-06	17	9	11	10	16	14	22	18	13	10	6	5	4	3	3	4	4	A	9	10	17	15	14	13	10.7	22.0	
22-Oct-06	12	9	8	6	7	11	15	19	26	42	21	18	3	4	4	5	A	25	16	16	6	8	13	25	13.9	42.0	
23-Oct-06	20	31	31	7	6	7	14	18	18	19	11	9	6	5	7	A	13	26	48	49	26	37	37	27	20.4	49.3	
24-Oct-06	42	21	25	17	10	31	30	22	25	14	7	3	4	5	A	8	12	9	9	7	10	23	21	9	15.8	42.2	
25-Oct-06	8	6	6	5	4	18	17	24	22	18	11	8	6	A	11	11	8	25	24	14	17	7	6	6	12.2	25.2	
26-Oct-06	2	3	2	4	4	8	10	11	6	6	6	9	A	19	14	9	7	8	8	18	5	4	8	20	8.4	20.4	
27-Oct-06	17	11	30	30	14	28	23	20	25	30	33	A	37	14	4	3	4	4	4	6	24	29	37	16	19.2	37.4	
28-Oct-06	11	26	25	34	30	40	17	21	29	17	A	17	11	8	7	8	10	5	6	5	13	11	11	12	16.3	39.5	
29-Oct-06	12	5	3	3	4	5	2	2	2	A	4	3	2	2	3	3	3	3	3	3	2	2	1	1	3.2	11.7	
30-Oct-06	1	1	2	2	6	15	13	18	A	8	5	6	9	5	6	6	9	22	26	36	16	9	13	10	10.7	35.7	
31-Oct-06	7	4	7	6	5	13	24	A	27	18	10	12	8	7	6	5	12	12	11	9	11	9	7	7	10.2	27.1	
Hourly Avg	13.2	12.3	11.6	11.6	12.4	16.4	20.3	23.6	19.8	13.8	10.5	9.3	8.8	7.4	5.8	6.2	6.7	10.3	13.3	15.3	17.3	16.1	14.7	13.0			
Hourly Max	42.2	43.7	32.6	34.0	52.6	43.5	75.4	106.5	58.9	42.0	32.9	34.6	36.6	19.4	15.1	16.3	13.9	27.2	48.5	57.5	69.8	63.3	37.4	34.0			

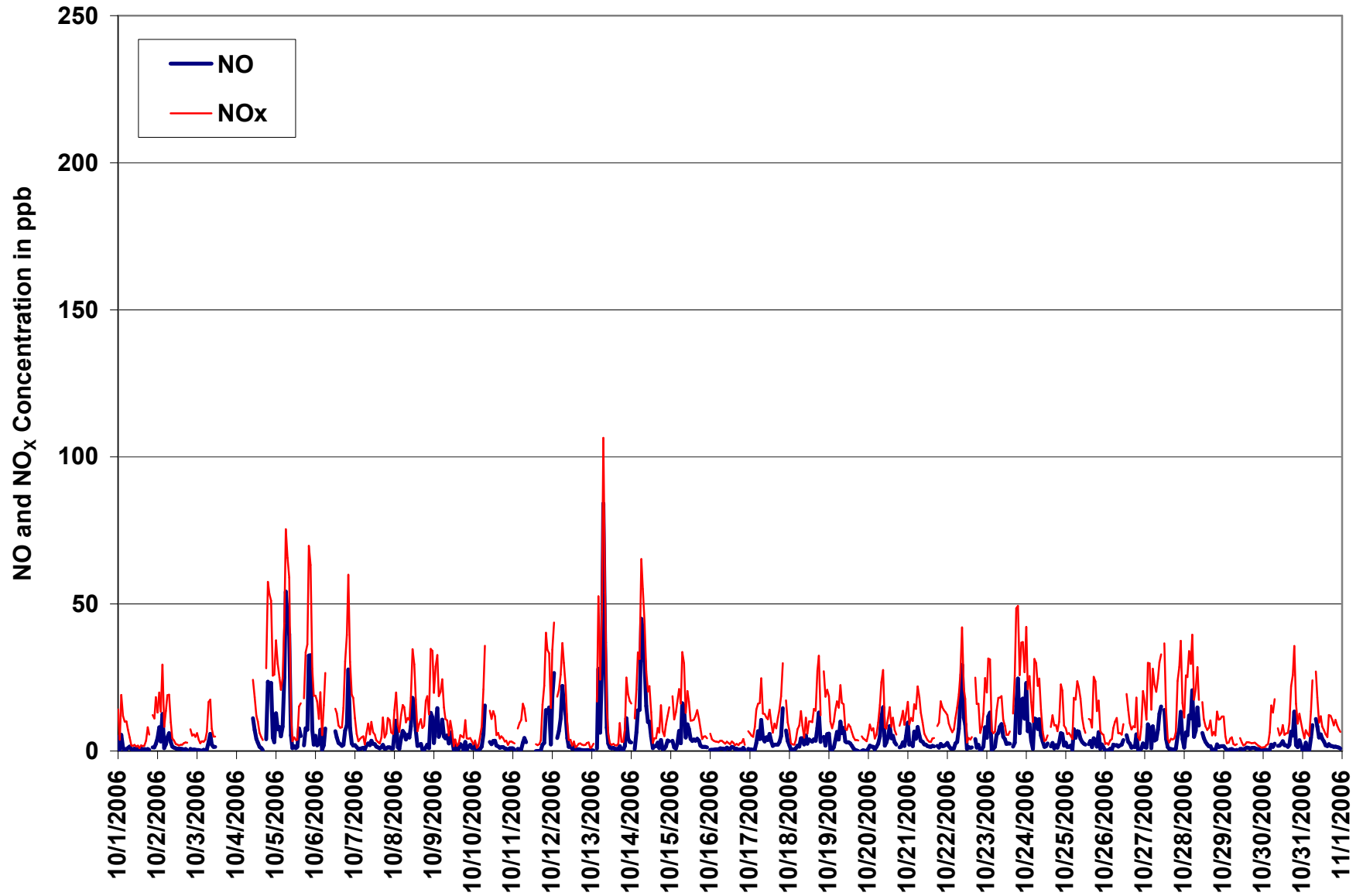


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

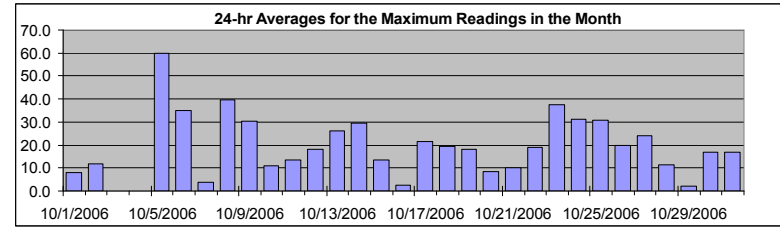
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	283.0	ppb	5-Oct	20:00 21:00
Maximum 24-hr Value:	59.9	ppb	5-Oct	



AIC Time:	29 hrs	Operational Time:	684 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	145.4	81.7	25.9	6.1	2.4	1.3	0.9	20.4 ppb	6.1 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-Oct-06	96	3	21	9	1	2	3	4	2	2	3	3	3	2	3	2	3	2	2	A	6	5	7	8.1	96.3	
2-Oct-06	61	60	14	46	2	6	13	33	5	3	2	2	2	3	2	2	3	3	2	A	2	1	2	11.8	60.8	
3-Oct-06	1	1	1	1	1	1	2	9	13	11	3	3	N	N	N	N	N	N	N	N	N	N	N	N	N	12.9
4-Oct-06	N	N	N	N	N	N	N	N	N	N	19	27	16	5	3	3	2	A	15	159	77	142	19	11	N	159.1
5-Oct-06	24	12	30	24	18	38	223	65	102	35	3	40	14	35	91	32	A	20	52	70	283	118	41	8	59.9	283.0
6-Oct-06	83	13	96	116	2	14	47	M	C	C	C	C	74	16	6	4	4	6	61	27	68	15	5	6	34.9	116.3
7-Oct-06	9	7	2	1	2	3	1	4	4	5	6	7	5	3	3	2	3	4	2	2	11	3	2	2	3.9	10.9
8-Oct-06	40	87	5	2	67	147	65	60	56	26	17	28	19	33	3	18	22	2	2	4	6	3	131	111	39.7	147.1
9-Oct-06	8	13	37	13	14	44	11	6	7	4	181	72	7	29	2	2	49	70	1	60	1	35	46	18	30.4	180.6
10-Oct-06	31	57	1	2	3	18	32	31	A	A	5	5	5	16	17	3	2	3	3	3	2	1	2	2	11.1	57.4
11-Oct-06	2	2	A	2	1	2	7	21	5	C	C	C	C	A	1	10	2	5	22	25	50	35	37	14	13.4	49.8
12-Oct-06	44	71	A	12	13	17	50	27	96	51	3	3	2	11	2	2	2	1	1	1	1	1	1	1	18.0	95.9
13-Oct-06	1	1	A	2	158	29	75	109	72	20	5	3	3	2	1	2	10	1	2	37	39	15	12	26.2	157.9	
14-Oct-06	12	A	2	15	33	50	165	56	53	28	12	13	10	2	4	13	55	2	79	1	2	11	35	28	29.6	164.8
15-Oct-06	A	24	3	2	12	35	6	31	23	48	46	11	9	5	8	5	7	7	4	3	3	3	2	A	13.4	47.6
16-Oct-06	1	3	1	1	2	2	2	2	2	2	3	3	2	13	2	2	2	1	2	1	3	2	A	2	2.4	12.5
17-Oct-06	1	2	2	2	12	46	8	19	35	11	26	21	65	14	4	4	5	4	5	11	39	A	74	82	21.4	82.0
18-Oct-06	78	2	3	1	2	34	3	25	58	5	13	5	7	10	5	6	5	18	66	13	A	13	4	74	19.5	77.7
19-Oct-06	85	4	2	4	44	53	8	56	17	112	5	6	5	5	3	2	1	1	1	A	1	1	1	1	18.1	112.0
20-Oct-06	2	4	4	3	2	4	5	12	17	28	3	6	11	16	12	9	6	4	A	4	2	6	4	33	8.5	32.9
21-Oct-06	77	5	8	3	44	13	17	9	6	6	4	4	3	3	3	4	3	A	4	2	6	3	4	4	10.2	76.6
22-Oct-06	36	7	3	2	2	25	9	10	72	101	22	53	2	5	2	3	A	35	7	11	1	2	8	19	19.0	101.3
23-Oct-06	25	80	101	2	15	8	39	17	17	14	24	7	5	9	16	A	3	5	28	145	98	59	121	28	37.6	145.1
24-Oct-06	43	54	57	13	2	45	26	21	84	8	65	4	4	40	A	3	47	2	42	32	26	16	51	34	31.3	84.2
25-Oct-06	76	40	51	59	3	59	9	20	18	7	14	4	5	A	4	67	2	36	31	12	68	2	84	36	30.7	83.5
26-Oct-06	2	2	1	5	2	55	18	5	3	41	40	49	A	21	6	12	2	21	11	88	1	2	3	67	19.9	88.4
27-Oct-06	29	16	132	58	4	51	8	9	31	45	35	A	24	9	2	2	1	1	1	4	30	19	26	16	24.2	131.7
28-Oct-06	3	12	11	45	29	34	9	16	22	15	A	9	6	5	4	3	4	1	2	2	20	4	4	4	11.5	45.0
29-Oct-06	4	3	3	1	3	1	1	2	1	A	2	1	1	2	2	2	2	3	3	2	2	2	2	1	2.0	3.7
30-Oct-06	1	1	1	2	1	10	4	4	A	3	3	4	6	5	4	4	5	61	7	70	21	9	85	80	17.0	85.5
31-Oct-06	1	3	114	2	2	75	86	A	19	21	9	8	6	6	4	4	5	4	3	2	3	3	2	2	16.8	114.1
Hourly Avg	30.3	20.3	26.1	15.1	16.5	30.7	31.7	24.4	31.1	25.0	20.5	14.3	11.4	11.6	7.6	7.7	8.9	11.9	16.0	27.0	30.8	19.2	28.2	24.2		
Hourly Max	96.3	86.9	131.7	116.3	157.9	147.1	222.7	109.3	102.0	112.0	180.6	72.1	74.4	39.7	90.6	66.7	54.7	69.8	78.6	159.1	283.0	141.6	131.1	110.5		



Station: Crescent Heights
 Station Owner: PAS

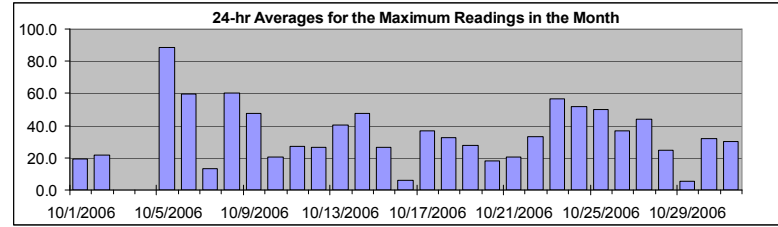
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	370.7	ppb	5-Oct	20:00 21:00
Maximum 24-hr Value:	88.8	ppb	5-Oct	



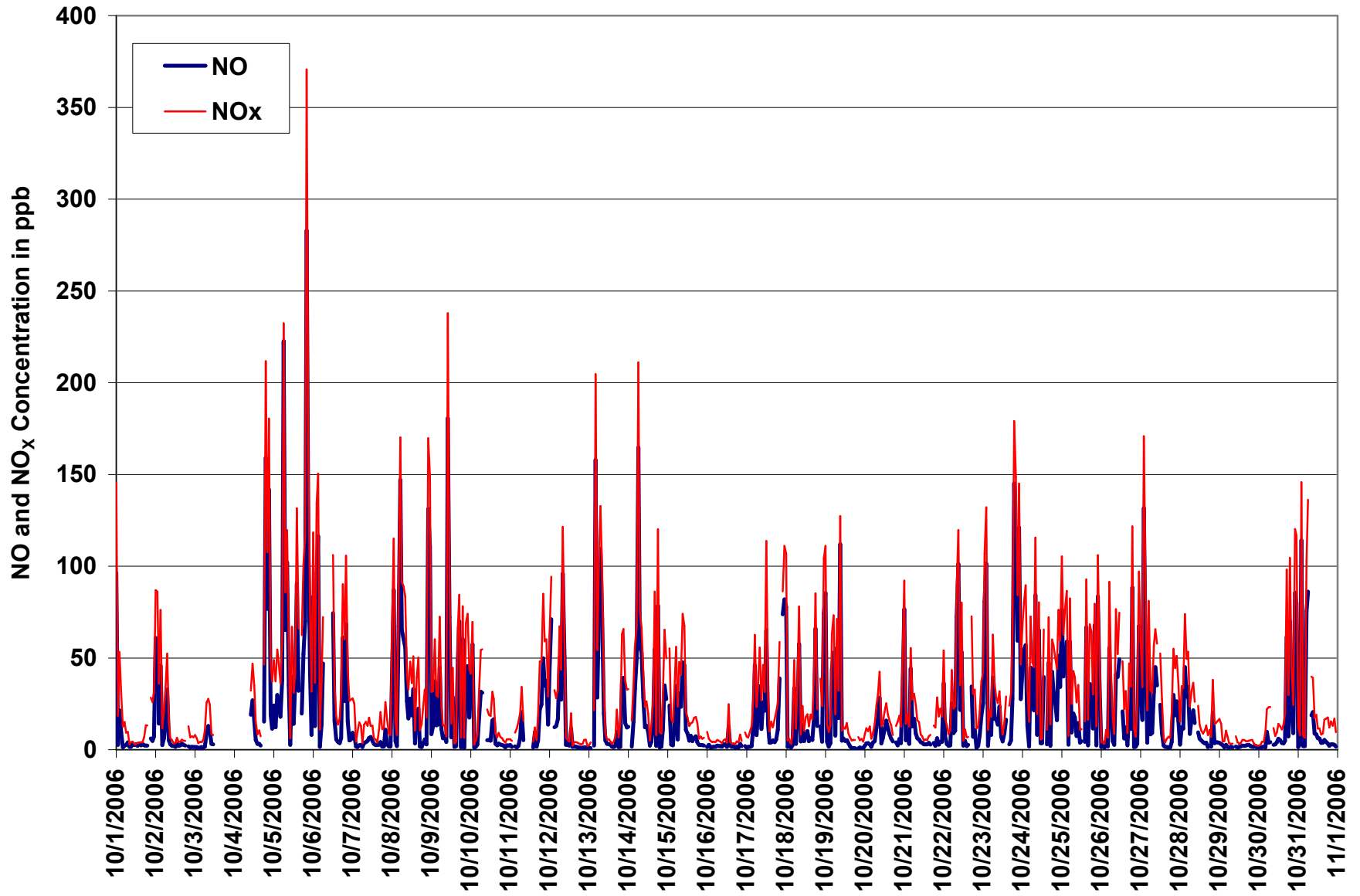
AIC Time:	29 hrs	Operational Time:	684 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	179.3	114.9	47.7	18.7	8.2	3.8	2.7	34.7 ppb	18.7 ppb

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-Oct-06	145	19	53	30	13	15	9	10	3	4	4	3	3	4	4	4	4	7	13	13	A	28	26	31	19.4	145.4	
2-Oct-06	87	86	36	76	12	21	33	52	15	6	5	3	4	7	4	4	5	5	5	A	13	7	7	7	21.8	86.9	
3-Oct-06	8	6	4	4	4	6	11	26	28	25	9	8	N	N	N	N	N	N	N	N	N	N	N	N	N	N	27.6
4-Oct-06	N	N	N	N	N	N	N	N	N	N	32	47	35	15	8	11	7	A	46	212	108	180	47	37	N	211.7	
5-Oct-06	49	37	55	47	36	61	232	86	120	58	6	67	31	42	132	66	A	63	101	117	371	161	75	32	88.8	370.7	
6-Oct-06	118	36	134	150	11	36	72	M	C	C	C	C	106	36	18	14	17	31	90	60	106	44	27	27	59.7	150.5	
7-Oct-06	28	25	4	10	15	13	4	14	15	13	17	13	13	6	6	4	11	20	11	12	26	16	9	8	13.1	28.0	
8-Oct-06	64	115	15	8	88	170	91	89	84	40	33	48	36	51	10	39	50	11	14	24	33	18	170	149	60.5	170.2	
9-Oct-06	32	32	60	30	29	72	24	13	13	7	238	95	14	45	3	4	66	84	7	78	7	69	74	44	47.5	237.8	
10-Oct-06	41	70	3	5	8	32	54	55	A	A	22	19	18	32	28	9	7	9	7	6	5	4	6	6	20.3	69.7	
11-Oct-06	6	5	A	9	12	15	20	34	16	C	C	C	C	A	4	12	5	19	48	48	85	59	60	29	27.1	85.0	
12-Oct-06	62	94	A	32	28	33	67	44	121	60	6	5	4	20	2	4	4	4	3	3	3	5	5	2	26.8	121.5	
13-Oct-06	2	4	A	21	205	54	103	133	95	34	9	5	6	4	3	4	7	22	7	14	63	66	38	33	40.6	204.7	
14-Oct-06	33	A	16	36	57	68	211	75	67	42	23	26	20	5	13	26	86	8	120	10	9	29	65	50	47.6	211.0	
15-Oct-06	A	55	17	15	31	56	24	48	41	74	68	21	18	13	14	15	17	18	15	6	7	6	7	A	26.6	74.0	
16-Oct-06	10	6	5	4	4	4	5	5	4	4	5	6	4	25	4	3	3	3	5	4	8	5	A	10	5.9	24.7	
17-Oct-06	7	7	10	13	26	63	23	35	56	27	46	31	114	29	10	15	12	17	20	25	59	A	86	111	36.6	113.8	
18-Oct-06	107	5	6	3	8	49	12	41	78	8	24	11	18	19	13	19	17	43	85	22	A	39	24	104	32.8	106.9	
19-Oct-06	111	14	10	13	63	73	19	71	32	127	11	12	11	15	9	7	5	5	5	A	7	5	6	4	27.7	127.3	
20-Oct-06	9	12	10	13	6	9	14	24	30	42	13	14	21	25	19	16	13	8	A	13	15	19	13	50	17.8	50.5	
21-Oct-06	92	14	19	13	55	27	30	24	16	15	8	7	5	6	5	7	8	A	13	12	29	18	22	18	20.2	92.2	
22-Oct-06	54	17	13	8	10	43	22	24	88	120	35	80	5	11	7	7	A	73	31	33	12	13	21	37	33.2	119.8	
23-Oct-06	42	107	132	11	21	18	63	36	29	25	32	16	8	15	29	A	24	31	65	179	149	84	145	47	56.8	179.0	
24-Oct-06	68	80	90	34	15	73	48	45	116	19	80	6	6	66	A	11	72	14	60	57	50	44	76	59	51.6	115.6	
25-Oct-06	105	63	77	87	8	82	25	43	40	26	35	11	11	A	15	93	16	68	64	30	80	13	106	50	49.9	105.9	
26-Oct-06	4	4	3	11	7	91	42	18	9	77	52	75	A	48	22	32	9	47	35	122	11	7	24	97	36.8	121.7	
27-Oct-06	59	34	171	87	21	81	33	31	57	66	58	A	53	28	6	4	6	7	6	20	55	44	51	37	44.2	170.8	
28-Oct-06	15	35	34	74	50	53	24	32	36	26	A	24	14	10	9	10	13	8	11	7	38	14	15	16	24.6	74.0	
29-Oct-06	17	14	4	5	10	7	3	3	3	A	7	4	3	4	5	5	5	5	5	5	5	3	3	2	5.6	16.8	
30-Oct-06	2	3	4	4	10	22	23	23	A	12	7	10	14	13	11	14	20	98	30	105	45	24	120	117	31.8	120.2	
31-Oct-06	13	8	146	8	7	103	136	A	40	39	17	19	12	12	8	9	16	17	18	12	15	13	17	10	30.1	145.8	
Hourly Avg	48.0	34.7	41.9	28.7	29.0	48.4	49.3	40.5	46.3	38.4	32.3	24.5	21.6	21.5	14.6	16.2	18.9	26.6	32.4	44.6	50.4	35.8	46.4	42.2			
Hourly Max	145.4	115.1	170.8	150.5	204.7	170.2	232.4	132.7	121.5	127.3	237.8	94.9	113.8	65.5	131.5	92.8	86.2	98.1	120.2	211.7	370.7	180.4	169.8	149.1			



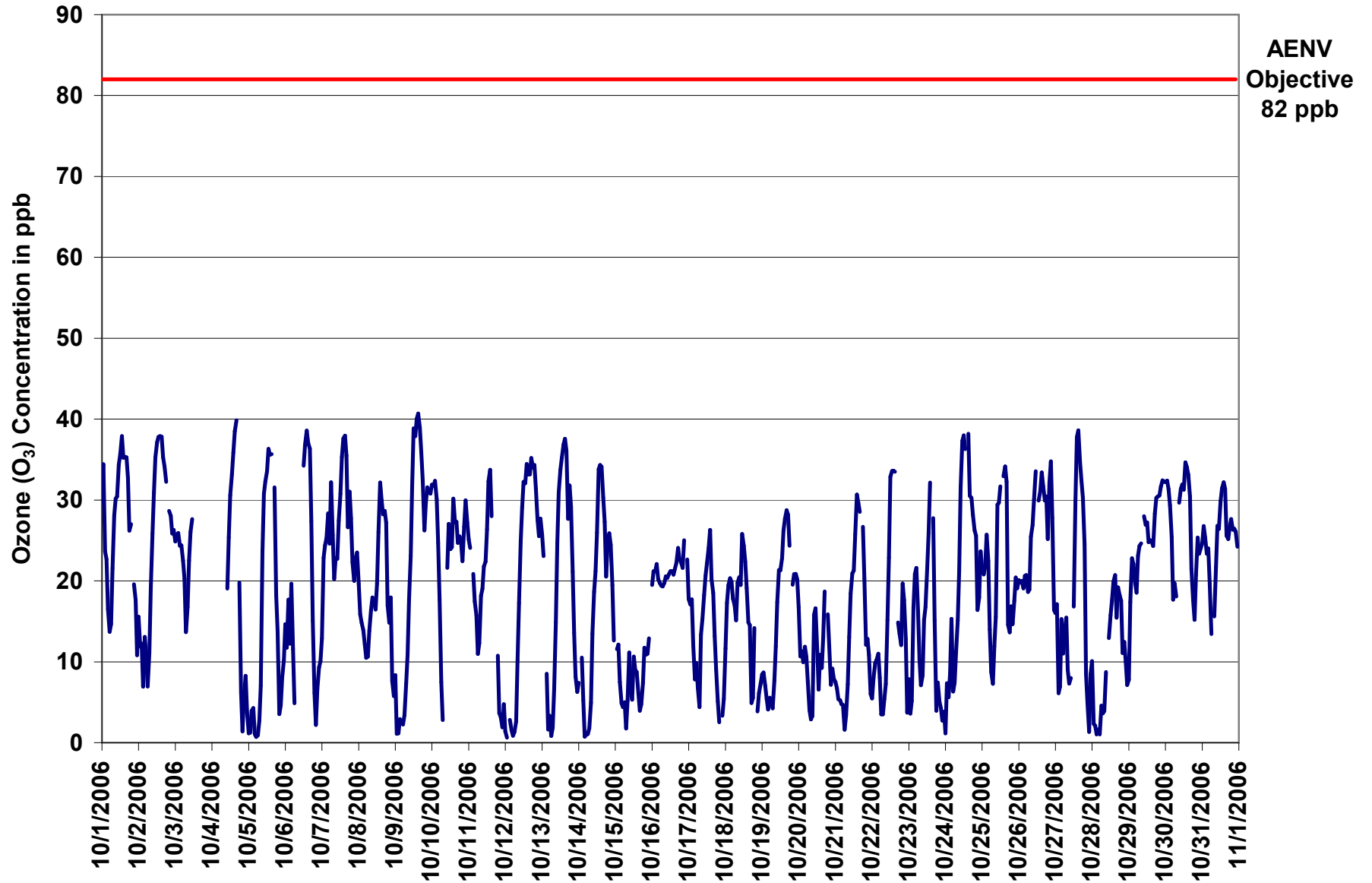


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

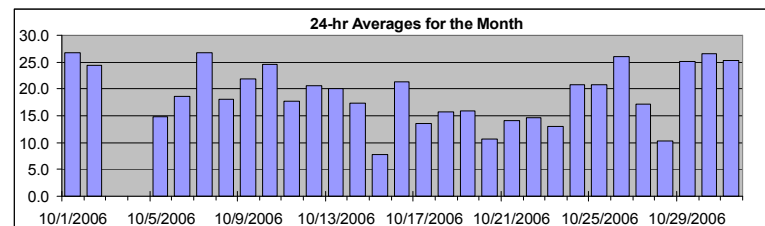
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 1-hr Exceedances:		0	
Maximum 1-hr Average:	40.7 ppb	9-Oct	15:00 16:00
Maximum 24-hr Average:	26.7 ppb	7-Oct	

AIC Time:	29 hrs	Operational Time:	686 hrs	
Calibration Time:	6 hrs	AMD Operational Uptime:	96.9%	
Percentile	99	95	75	50
	38.5	35.3	27.3	19.7
			10.2	2.6
			1.0	
			Average	Median
			19.1 ppb	19.7 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																							24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00			22:00 23:00	23:00 0:00
1-Oct-06	30	34	24	23	17	14	15	22	28	30	30	34	36	38	35	35	35	33	26	27	A	20	18	11	26.7	37.9	
2-Oct-06	16	12	12	7	13	11	7	11	19	26	31	35	37	38	38	38	35	34	32	A	29	28	26	26	24.4	37.9	
3-Oct-06	25	26	26	24	24	22	20	14	17	23	26	28	N	N	N	N	N	N	N	N	N	N	N	N	N	N	27.6
4-Oct-06	N	N	N	N	N	N	N	N	N	N	19	25	31	33	36	38	40	A	20	6	1	6	8	4	N	39.8	
5-Oct-06	1	1	4	4	1	1	1	3	7	24	31	32	34	36	36	36	A	32	18	14	4	5	8	10	14.8	36.3	
6-Oct-06	15	12	18	12	20	12	5	M	C	C	C	C	34	37	39	37	36	27	15	6	2	7	9	10	18.5	38.6	
7-Oct-06	13	23	24	25	28	25	32	26	20	23	23	27	31	35	38	38	36	27	31	28	22	20	23	24	26.7	38.0	
8-Oct-06	20	16	15	14	12	10	11	14	16	18	18	16	20	26	32	30	28	29	27	17	15	18	8	6	18.1	32.2	
9-Oct-06	8	1	1	3	3	2	3	7	11	18	23	32	39	38	40	41	39	36	32	26	30	32	31	31	21.9	40.7	
10-Oct-06	32	32	32	30	25	18	7	3	A	A	22	27	24	24	30	27	27	25	25	25	22	27	30	27	24.6	32.4	
11-Oct-06	25	24	A	21	17	16	11	12	18	19	22	22	26	32	34	28	C	C	A	11	4	3	2	5	17.6	33.7	
12-Oct-06	1	1	A	3	2	1	1	3	10	17	25	29	32	32	34	33	33	35	34	34	31	28	26	28	20.6	35.2	
13-Oct-06	26	23	A	9	2	3	1	2	7	15	25	31	34	35	37	38	36	28	32	29	21	14	8	6	20.0	37.6	
14-Oct-06	7	A	11	5	1	1	1	2	5	13	19	21	26	34	34	34	30	27	21	25	26	24	19	13	17.4	34.3	
15-Oct-06	A	12	12	7	5	4	5	2	5	11	7	5	11	9	9	6	4	5	7	12	11	11	13	A	7.8	12.9	
16-Oct-06	19	21	21	22	20	20	19	19	20	21	20	21	21	21	21	22	22	24	23	22	22	25	A	23	21.3	25.0	
17-Oct-06	18	17	18	12	8	10	7	4	13	15	18	21	22	24	26	20	18	13	9	5	3	A	3	5	13.5	26.3	
18-Oct-06	12	17	19	20	20	18	17	15	20	20	19	26	24	22	19	15	15	5	6	14	A	4	6	7	15.7	25.8	
19-Oct-06	8	9	7	5	4	6	5	4	8	12	17	21	21	23	26	28	29	28	24	A	20	21	21	20	16.0	28.7	
20-Oct-06	17	11	11	10	12	11	8	4	3	3	16	17	12	7	11	9	13	19	A	16	12	7	9	8	10.6	18.7	
21-Oct-06	7	7	5	5	5	5	2	3	7	13	18	21	21	26	31	30	29	A	27	20	12	13	11	6	14.1	30.7	
22-Oct-06	5	8	10	10	11	8	3	4	5	7	15	23	33	34	34	33	A	15	14	12	20	18	13	4	14.7	33.6	
23-Oct-06	8	4	5	17	21	22	16	10	7	8	15	17	21	26	32	A	28	15	4	7	5	4	3	4	13.0	32.2	
24-Oct-06	1	7	6	8	15	6	7	11	15	21	32	37	38	36	A	38	31	30	28	26	26	16	18	24	20.8	38.2	
25-Oct-06	22	21	22	26	22	14	9	7	12	16	29	30	32	A	33	34	32	15	14	17	15	18	20	19	20.7	34.1	
26-Oct-06	20	20	20	19	21	21	19	19	25	27	30	34	A	30	31	33	32	30	30	25	32	35	28	16	25.9	34.8	
27-Oct-06	16	17	6	7	15	11	14	15	9	7	8	A	17	30	38	39	35	32	30	25	8	5	1	9	17.1	38.6	
28-Oct-06	10	2	2	1	2	1	5	4	4	9	A	13	16	18	20	21	15	19	18	18	11	12	10	7	10.3	20.7	
29-Oct-06	8	17	23	22	20	19	23	24	25	A	28	27	27	25	25	25	24	28	30	30	31	32	32	32	25.1	32.4	
30-Oct-06	32	32	31	29	25	18	20	18	A	30	31	32	31	35	34	33	30	21	18	15	21	25	23	24	26.5	34.7	
31-Oct-06	25	27	25	23	24	20	13	A	16	22	27	26	30	31	32	31	26	25	27	28	26	26	24	24	25.3	32.2	
Hourly Avg	15.4	15.6	15.2	14.2	13.8	11.6	10.2	10.1	13.1	17.3	22.2	25.2	26.9	28.8	30.5	30.0	28.1	24.3	22.2	19.3	17.1	17.3	15.6	14.9			
Hourly Max	32.2	34.4	32.4	30.1	28.4	24.6	32.2	25.7	28.1	30.2	31.5	37.3	38.9	37.9	40.0	40.7	39.8	35.9	34.0	34.3	32.2	34.8	32.4	32.3			

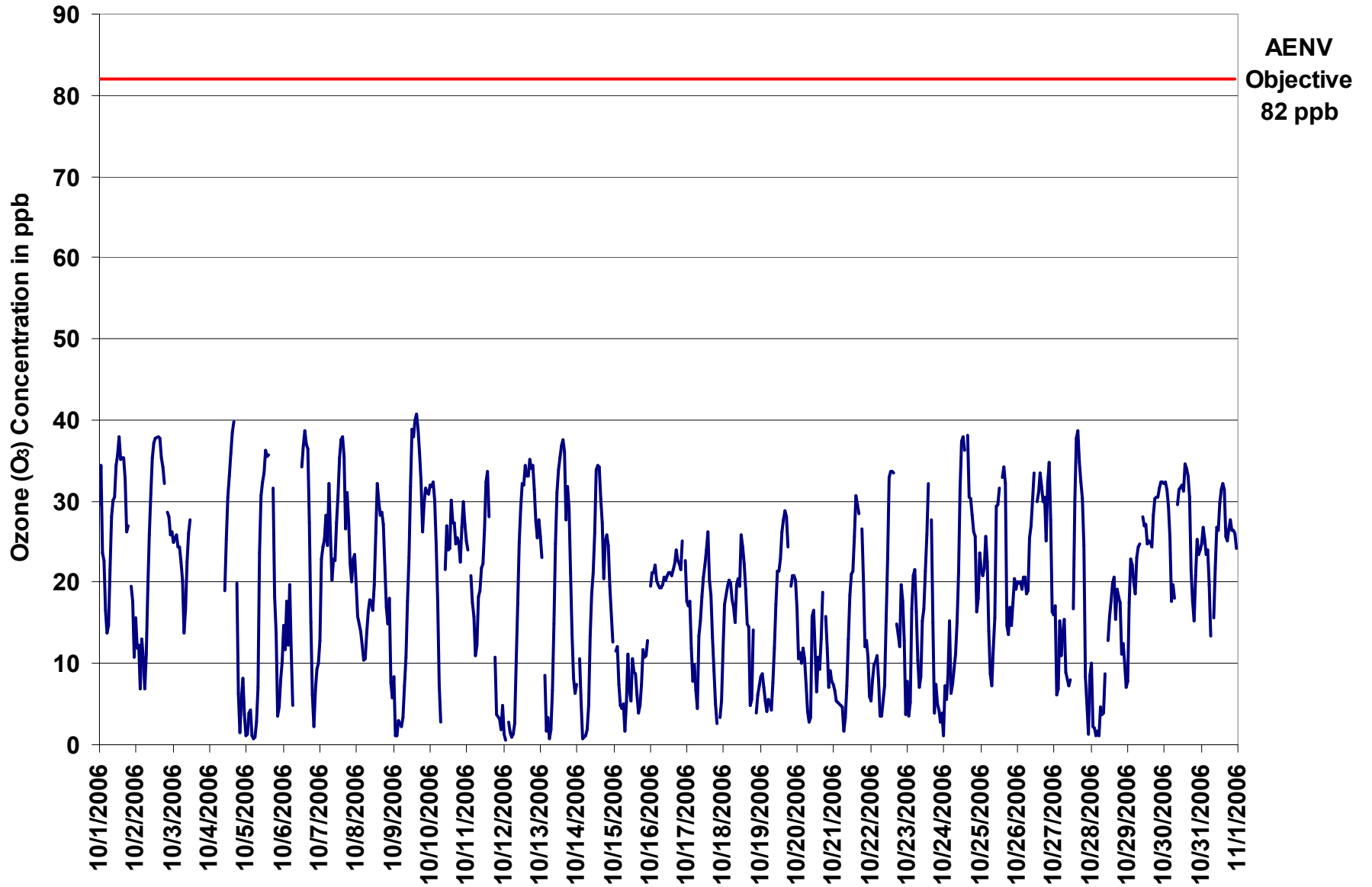


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

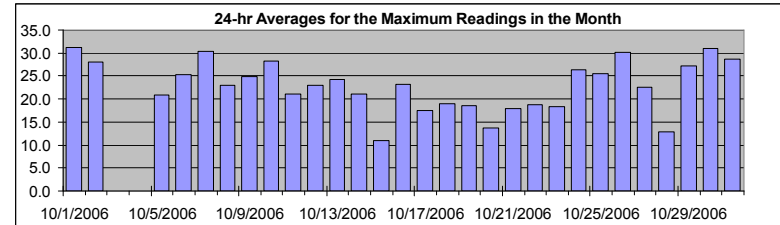
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	45.0	ppb	5-Oct	15:00 16:00
Maximum 24-hr Value:	31.3	ppb	1-Oct	



AIC Time:	29 hrs	Operational Time:	686 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	41.7	38.7	31.4	23.4	14.8	5.3	2.3	23.0 ppb	23.4 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-Oct-06	38	39	36	33	21	16	16	27	32	32	33	37	38	40	38	37	37	36	33	29	A	27	25	22	31.3	39.8	
2-Oct-06	22	19	19	14	16	16	11	18	24	29	34	38	39	39	40	39	37	36	34	A	32	29	29	28	28.0	39.9	
3-Oct-06	26	27	27	26	26	25	23	19	22	25	28	30	N	N	N	N	N	N	N	N	N	N	N	N	N	30.4	
4-Oct-06	N	N	N	N	N	N	N	N	N	N	27	30	34	37	38	41	42	A	31	18	3	16	13	9	N	42.1	
5-Oct-06	3	5	11	9	2	2	2	7	18	30	33	34	36	39	43	45	A	40	36	24	15	10	15	21	20.9	45.0	
6-Oct-06	19	22	22	21	21	20	12	M	C	C	C	C	40	42	43	40	42	34	26	16	4	20	20	16	25.2	43.5	
7-Oct-06	16	25	26	30	32	30	35	33	26	26	28	30	33	38	39	40	39	35	33	32	25	24	25	25	30.3	40.1	
8-Oct-06	25	23	18	16	14	13	13	17	18	21	22	23	23	31	34	35	32	33	31	29	24	25	17	15	23.0	34.9	
9-Oct-06	15	3	2	6	5	5	6	10	15	22	27	39	41	39	42	42	42	39	36	30	33	33	33	32	24.8	42.4	
10-Oct-06	34	33	34	32	28	21	13	9	A	A	26	35	30	29	33	32	31	28	29	28	24	30	34	29	28.2	35.0	
11-Oct-06	27	27	A	22	21	19	16	16	21	21	24	24	33	35	36	30	C	C	A	15	11	10	4	7	21.1	35.6	
12-Oct-06	5	1	A	5	3	2	3	4	18	21	27	34	34	34	36	36	36	36	35	36	34	29	28	29	22.9	36.4	
13-Oct-06	27	25	A	13	5	7	2	3	14	19	31	33	36	37	38	39	39	31	35	35	28	24	22	12	24.2	39.0	
14-Oct-06	10	A	12	12	2	3	2	3	7	18	22	25	33	35	38	36	34	30	27	29	29	28	29	19	21.1	37.9	
15-Oct-06	A	15	16	10	8	9	9	4	12	13	14	7	15	11	11	9	6	7	11	14	12	12	14	A	10.9	16.4	
16-Oct-06	21	23	23	24	22	21	21	22	22	22	22	22	22	23	22	23	25	26	25	24	24	28	A	A	26	23.1	27.9
17-Oct-06	20	19	20	14	13	13	13	10	20	19	23	25	28	29	30	24	23	19	12	9	7	A	6	7	17.5	30.2	
18-Oct-06	17	20	21	21	22	21	19	19	23	23	24	28	28	26	21	17	16	12	11	17	A	8	9	10	19.0	28.4	
19-Oct-06	11	10	9	8	6	8	8	6	11	15	19	26	23	26	29	31	30	31	30	A	21	23	23	22	18.5	31.1	
20-Oct-06	21	14	13	13	13	12	11	8	4	10	20	20	18	9	13	12	18	21	A	20	16	10	11	11	13.8	20.9	
21-Oct-06	10	9	8	8	8	9	4	5	13	18	21	24	24	32	33	32	32	A	30	24	23	16	19	12	17.9	32.7	
22-Oct-06	8	13	12	13	14	12	8	7	8	14	21	31	36	36	36	35	A	22	18	16	23	21	16	11	18.7	36.4	
23-Oct-06	13	7	13	21	24	26	21	16	9	14	18	21	24	30	38	A	35	20	17	23	9	9	6	8	18.4	37.9	
24-Oct-06	5	14	8	15	19	16	14	20	20	30	36	40	40	39	A	42	34	35	31	29	30	30	28	29	26.3	41.6	
25-Oct-06	25	23	25	29	25	23	13	13	17	20	36	33	35	A	37	39	38	25	20	22	21	22	24	22	25.6	38.8	
26-Oct-06	22	21	22	20	25	23	22	23	28	29	36	37	A	38	39	36	34	34	36	36	35	38	34	24	30.1	38.9	
27-Oct-06	21	24	14	16	20	19	20	21	18	11	11	A	28	36	40	41	38	34	34	29	15	11	4	14	22.7	41.0	
28-Oct-06	12	8	4	3	4	4	7	5	6	12	A	15	18	19	23	24	18	23	22	19	17	14	13	9	12.9	23.8	
29-Oct-06	11	21	24	24	23	23	25	26	26	A	32	30	30	26	27	27	26	32	32	32	32	33	34	34	27.2	33.9	
30-Oct-06	33	33	34	31	29	26	26	25	A	32	34	34	34	37	37	36	35	33	25	27	27	29	27	27	30.9	37.3	
31-Oct-06	28	29	27	25	26	24	22	A	23	26	29	29	32	33	34	34	29	29	31	32	31	30	31	28	28.7	34.1	
Hourly Avg	18.9	19.2	18.5	17.8	16.6	15.5	13.9	14.2	17.6	21.2	26.0	28.7	30.4	32.0	33.4	32.9	31.4	29.0	27.6	24.7	21.6	22.0	20.4	19.3			
Hourly Max	37.7	38.7	35.9	32.6	32.1	30.4	34.7	33.1	31.7	32.1	36.3	39.9	40.7	42.1	43.5	45.0	42.1	40.4	36.2	35.9	34.6	37.8	34.0	33.9			

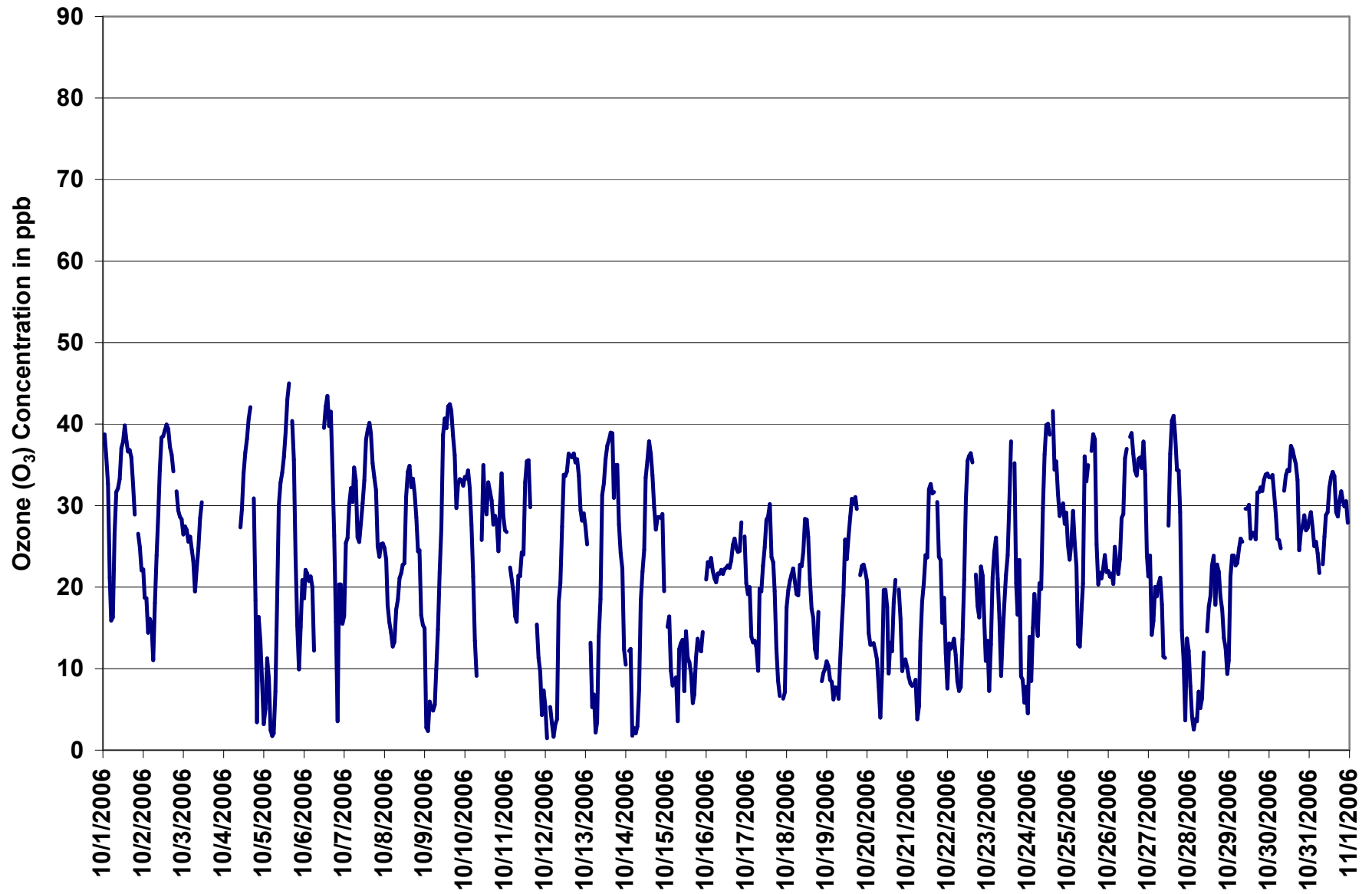
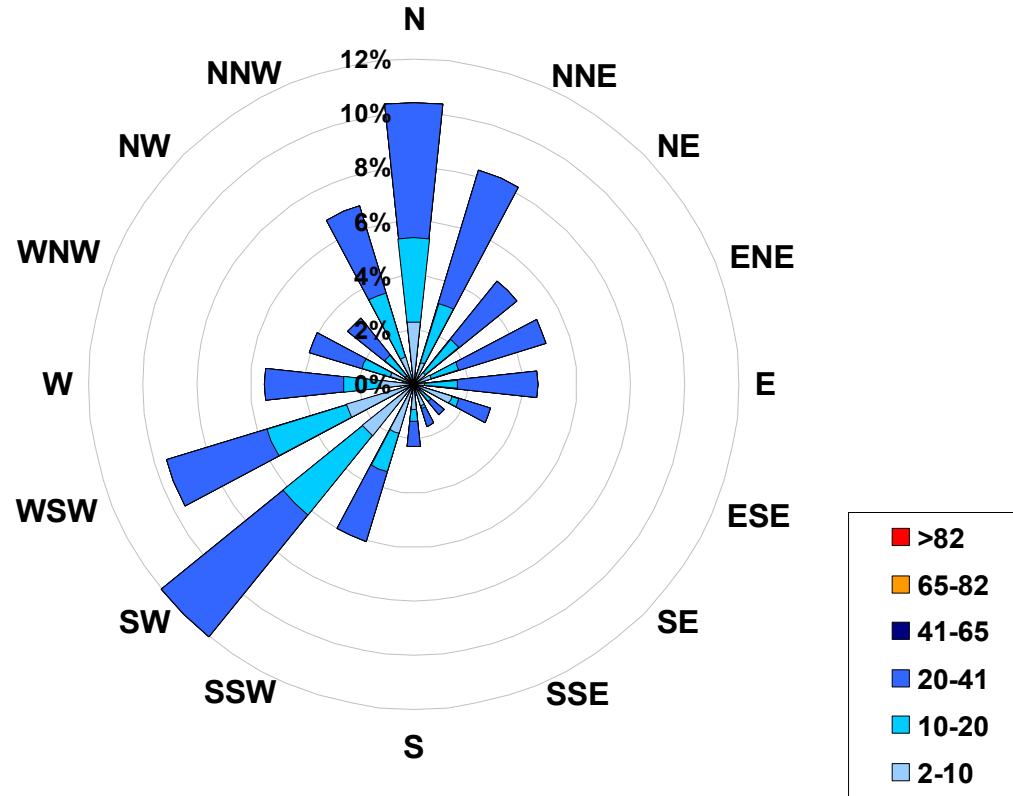


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	167	
10	to 20	184	
20	to 41	335	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			686



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

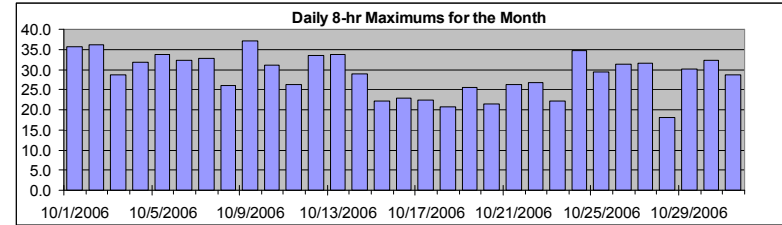
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	37.1	ppb	9-Oct	18:00	19:00		

Percentile	99	95	75	50	25	5	1
	35.3	32.8	25.8	20.0	12.1	4.9	2.6



Status Flag Characters

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

Day Mountain Standard Time

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-Oct-06	36	35	33	31	28	25	23	22	22	21	22	24	26	29	32	33	34	35	34	33	33	30	28	24	35.7	
2-Oct-06	21	18	16	14	13	12	11	11	12	13	16	19	22	26	29	33	35	36	36	36	35	33	32	30	36.0	
3-Oct-06	29	27	26	26	26	25	24	23	22	21	22	21	22	N	N	N	N	N	N	N	N	N	N	N	28.6	
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	32	32	32	29	25	21	17	31.9	
5-Oct-06	7	6	4	4	4	3	2	2	3	6	9	12	16	21	25	29	33	34	32	29	25	20	16	13	33.7	
6-Oct-06	13	11	11	10	12	13	13	13	N	N	N	N	N	N	N	N	N	N	32	29	25	21	18	14	32.2	
7-Oct-06	11	11	12	14	17	20	23	25	25	25	25	26	26	27	28	29	31	32	33	33	32	30	28	26	32.8	
8-Oct-06	24	23	21	19	18	17	15	14	14	14	14	14	15	17	20	22	24	25	26	26	26	25	21	18	26.1	
9-Oct-06	16	12	9	7	6	4	3	4	4	6	9	12	17	21	26	30	34	36	37	36	35	34	33	32	37.1	
10-Oct-06	31	31	31	31	31	29	26	22	21	N	N	N	N	N	N	N	26	26	26	26	26	26	26	26	31.2	
11-Oct-06	26	26	26	25	24	23	20	18	17	16	17	17	18	20	23	25	26	N	N	N	N	N	N	N	26.2	
12-Oct-06	N	4	4	3	2	2	2	2	3	5	8	11	15	19	23	27	30	32	33	34	33	33	32	31	33.6	
13-Oct-06	30	29	28	24	20	17	13	9	7	5	8	11	15	19	23	28	31	33	34	34	32	29	26	22	33.7	
14-Oct-06	18	17	14	10	7	6	5	4	4	5	6	8	11	15	19	23	26	28	28	29	29	28	26	23	28.9	
15-Oct-06	22	20	19	16	13	10	8	7	7	6	6	6	6	7	7	8	8	7	7	8	8	8	9	9	22.2	
16-Oct-06	11	14	15	17	18	20	20	20	20	20	20	20	20	20	21	21	21	22	22	22	22	23	23	23	22.9	
17-Oct-06	22	21	21	19	17	15	14	12	11	11	11	12	14	16	18	20	21	20	19	17	15	14	10	8	22.3	
18-Oct-06	7	8	9	11	14	14	16	17	18	19	19	19	20	21	21	21	20	18	16	15	14	11	9	8	20.8	
19-Oct-06	7	8	8	7	6	7	6	6	6	6	8	10	12	14	17	20	22	24	25	26	25	25	24	23	25.6	
20-Oct-06	22	19	17	16	15	14	12	10	9	8	8	9	9	9	9	10	11	13	12	12	12	12	12	12	21.5	
21-Oct-06	11	9	9	8	7	6	5	5	5	6	7	9	11	14	18	21	24	25	26	26	25	23	20	17	26.2	
22-Oct-06	13	13	11	9	9	9	8	7	7	7	8	10	12	16	19	23	26	27	26	25	23	21	18	13	26.6	
23-Oct-06	13	11	10	11	11	12	12	13	13	13	15	15	15	15	17	18	21	22	20	19	17	14	9	9	22.0	
24-Oct-06	5	4	5	5	6	6	7	8	10	11	15	18	21	25	27	31	33	35	34	33	31	28	27	25	34.6	
25-Oct-06	24	23	22	22	21	21	20	18	17	16	17	17	19	19	23	26	29	29	27	25	23	22	21	19	29.4	
26-Oct-06	17	18	19	19	20	20	20	20	20	21	23	24	25	26	28	30	31	31	31	30	30	31	31	29	31.4	
27-Oct-06	27	25	22	20	18	15	13	13	12	11	11	11	12	14	18	21	25	28	32	31	30	26	22	18	31.5	
28-Oct-06	15	11	8	5	4	4	4	3	3	3	4	5	7	10	12	14	16	17	17	18	17	17	16	14	18.0	
29-Oct-06	13	13	13	14	15	16	17	20	22	22	23	24	25	26	26	26	26	26	26	26	27	27	28	29	30	30.0
30-Oct-06	31	32	32	32	31	29	28	26	25	24	24	25	26	28	30	32	32	31	29	27	26	25	23	22	32.3	
31-Oct-06	22	22	23	24	25	24	23	22	21	20	21	21	22	24	26	27	28	29	29	29	28	28	27	26	26	28.7

Hourly Max 35.7 34.9 32.8 31.5 30.9 29.1 27.6 25.8 25.5 25.4 25.2 25.5 26.1 29.1 31.7 33.4 34.8 35.9 37.1 36.4 35.2 34.4 33.3 32.1



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

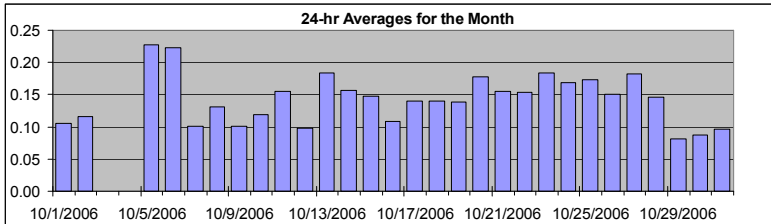
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 1-hr Exceedances:			0		
Maximum 1-hr Average:	0.9 ppm	13-Oct	7:00	8:00	
Maximum 24-hr Value:	0.2 ppm	5-Oct			



AIC Time:	29 hrs		Operational Time:	685 hrs					
Calibration Time:	7 hrs		AMD Operational Uptime:	96.9%					
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.1 ppm	0.1 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																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	0:00		
1-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1		0.11	0.15	
2-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1		0.12	0.29	
3-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	N	N	N		N	0.21	
4-Oct-06	N	N	N	N	N	N	N	N	N	N	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.3	0.4	0.4	0.3	0.2	0.2		N	0.44	
5-Oct-06	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.6	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.3	0.4	0.4	0.3	0.2		0.23	0.57	
6-Oct-06	0.1	0.2	0.1	0.1	0.1	0.2	0.4	M	C	C	C	C	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.4	0.3	0.2		0.22	0.63	
7-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.10	0.14	
8-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3		0.13	0.35	
9-Oct-06	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.10	0.26	
10-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	A	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.12	0.33	
11-Oct-06	0.1	0.1	A	0.1	0.1	0.2	0.3	0.3	0.3	0.0	0.1	0.1	C	C	C	A	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1		0.16	0.31	
12-Oct-06	0.1	0.1	A	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0		0.10	0.32	
13-Oct-06	0.0	0.1	A	0.1	0.2	0.2	0.5	0.9	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2		0.18	0.90
14-Oct-06	0.1	A	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2		0.16	0.36	
15-Oct-06	A	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A		0.15	0.26	
16-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1		0.11	0.15
17-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1		0.14	0.28		
18-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	A	0.2	0.2	0.1		0.14	0.31	
19-Oct-06	0.1	0.1	0.1	0.1	0.1	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	A	0.1	0.1	0.1	0.1		0.14	0.19	
20-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.2	0.1	0.2	0.1	0.1		0.18	0.31	
21-Oct-06	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2		0.16	0.23	
22-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.1	0.1	0.2	0.2		0.15	0.29	
23-Oct-06	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	A	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2		0.18	0.34	
24-Oct-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1		0.17	0.33	
25-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1		0.17	0.27	
26-Oct-06	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.15	0.24	
27-Oct-06	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.2	A	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.1		0.18	0.37	
28-Oct-06	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1		0.15	0.32	
29-Oct-06	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.08	0.11	
30-Oct-06	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.09	0.17	
31-Oct-06	0.1	0.0	0.0	0.0	0.1	0.1	0.1	A	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.10	0.26	
Hourly Avg	0.12	0.11	0.11	0.11	0.12	0.15	0.21	0.26	0.21	0.15	0.13	0.11	0.12	0.11	0.11	0.11	0.12	0.14	0.15	0.16	0.18	0.16	0.14	0.13				
Hourly Max	0.26	0.23	0.18	0.18	0.18	0.32	0.48	0.90	0.48	0.30	0.22	0.21	0.32	0.21	0.16	0.16	0.19	0.33	0.34	0.49	0.63	0.42	0.28	0.35				

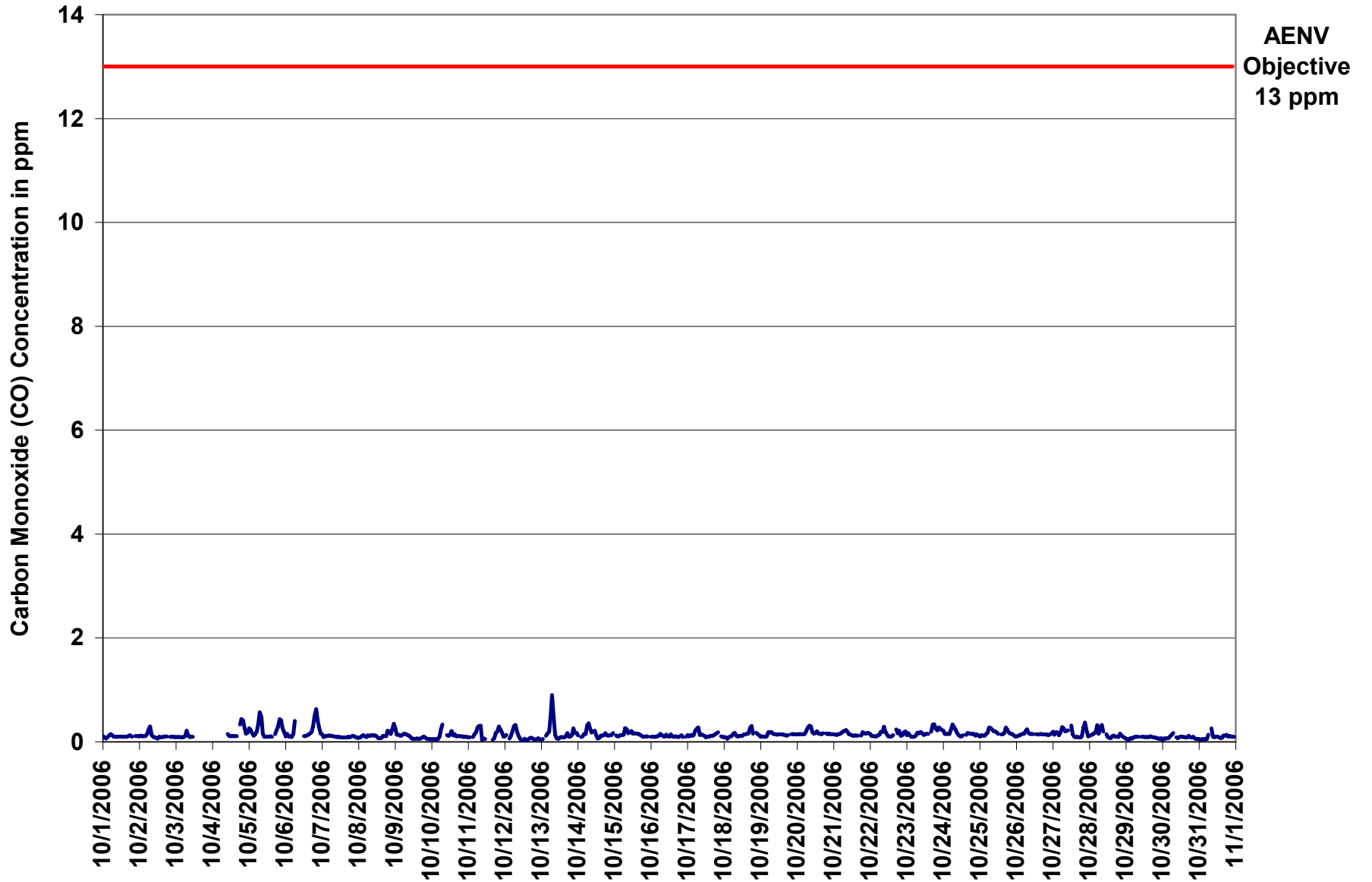


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

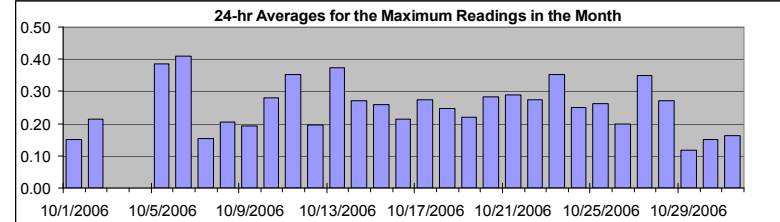
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	1.5	ppm	17-Oct	5:00 6:00
Maximum 24-hr Value:	0.4	ppm	6-Oct	



AIC Time:	29 hrs	Operational Time:	685 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.6	0.3	0.2	0.1	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																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-06	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.1	0.1	A	0.2	0.1	0.1	0.1	0.15	0.26
2-Oct-06	0.1	0.3	0.1	0.1	0.1	0.2	0.6	0.8	0.2	0.1	0.1	0.1	0.1	0.5	0.2	0.1	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.21	0.80	
3-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.2	0.1	0.2	0.2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.44
4-Oct-06	N	N	N	N	N	N	N	N	N	N	0.3	0.1	0.2	0.1	0.1	0.2	A	0.7	0.8	0.7	0.5	0.3	0.5	N	N	N	0.81
5-Oct-06	0.4	0.3	0.3	0.2	0.2	0.3	1.0	0.9	0.8	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.3	0.5	0.3	1.0	0.7	0.4	0.3	0.39	1.00	
6-Oct-06	0.1	0.3	0.2	0.1	0.1	0.3	1.0	M	C	C	C	C	0.2	0.3	0.2	0.2	0.2	0.6	1.1	1.1	0.6	0.4	0.2	0.2	0.41	1.13	
7-Oct-06	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.15	0.32	
8-Oct-06	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.3	0.5	0.8	0.21	0.82	
9-Oct-06	1.4	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.19	1.42	
10-Oct-06	0.1	0.1	0.1	0.1	0.1	0.7	0.6	0.7	A	A	0.2	0.2	0.2	0.7	0.2	0.3	0.1	0.3	0.2	0.4	0.3	0.1	0.3	0.1	0.28	0.75	
11-Oct-06	0.1	0.1	A	0.1	0.1	0.3	0.3	0.5	0.4	0.1	0.4	0.1	C	C	C	A	0.2	0.4	1.0	0.5	1.1	0.4	0.4	0.2	0.35	1.10	
12-Oct-06	0.2	0.3	A	0.1	0.2	0.4	0.5	0.6	0.5	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20	0.55	
13-Oct-06	0.1	0.1	A	0.2	0.2	0.4	1.4	1.1	1.0	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.4	0.2	0.2	0.6	0.7	0.3	0.3	0.37	1.43	
14-Oct-06	0.2	A	0.1	0.1	0.2	0.3	0.6	0.5	0.4	0.3	0.2	0.3	0.2	0.1	0.1	0.5	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.4	0.27	0.57	
15-Oct-06	A	0.3	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.7	0.2	0.3	0.2	0.4	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	A	0.26	0.69	
16-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.2	0.1	0.1	0.5	0.1	0.1	0.6	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	A	0.5	0.22	0.61	
17-Oct-06	0.2	0.1	0.1	0.1	0.1	1.5	0.4	0.7	0.2	0.3	0.2	0.2	0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	A	0.2	0.1	0.27	1.45	
18-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.5	0.3	0.2	0.3	0.5	0.6	0.4	A	0.3	0.2	0.1	0.25	0.60	
19-Oct-06	0.1	0.1	0.1	0.1	0.1	1.1	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	A	0.1	0.1	0.1	0.1	0.22	1.07	
20-Oct-06	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.6	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.5	A	0.3	0.2	0.2	0.2	0.2	0.28	0.61	
21-Oct-06	0.4	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.8	0.3	0.3	0.3	0.2	0.2	0.6	0.3	0.2	A	0.2	0.3	0.3	0.3	0.3	0.2	0.29	0.79	
22-Oct-06	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	A	0.4	0.2	0.4	0.2	0.2	1.1	0.3	0.27	1.14	
23-Oct-06	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.5	0.8	0.2	0.3	0.6	0.4	A	0.4	0.5	0.5	0.5	0.3	0.5	0.4	0.3	0.35	0.82	
24-Oct-06	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.7	0.4	0.2	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.25	0.66	
25-Oct-06	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.4	0.3	0.2	0.5	0.2	0.2	A	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.26	0.55	
26-Oct-06	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.2	0.2	0.2	0.2	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.20	0.45	
27-Oct-06	0.9	0.2	0.3	0.3	0.2	0.5	0.6	0.6	0.3	0.4	0.3	A	0.4	0.3	0.1	0.1	0.2	0.1	0.1	0.3	0.6	0.9	0.4	0.2	0.35	0.90	
28-Oct-06	0.1	0.2	0.2	0.2	0.4	0.6	0.3	0.8	0.6	0.3	A	0.2	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.6	0.2	0.1	0.2	0.27	0.84	
29-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.12	0.19	
30-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	A	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.15	0.27	
31-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.4	A	0.5	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.16	0.50	
Hourly Avg	0.22	0.16	0.15	0.14	0.16	0.35	0.43	0.46	0.35	0.26	0.24	0.17	0.18	0.27	0.19	0.19	0.19	0.26	0.28	0.29	0.35	0.28	0.26	0.23			
Hourly Max	1.42	0.30	0.27	0.27	0.39	1.45	1.43	1.15	1.03	0.69	0.82	0.30	0.45	0.75	0.58	0.50	0.45	0.50	0.99	1.09	1.13	0.90	1.14	0.82			

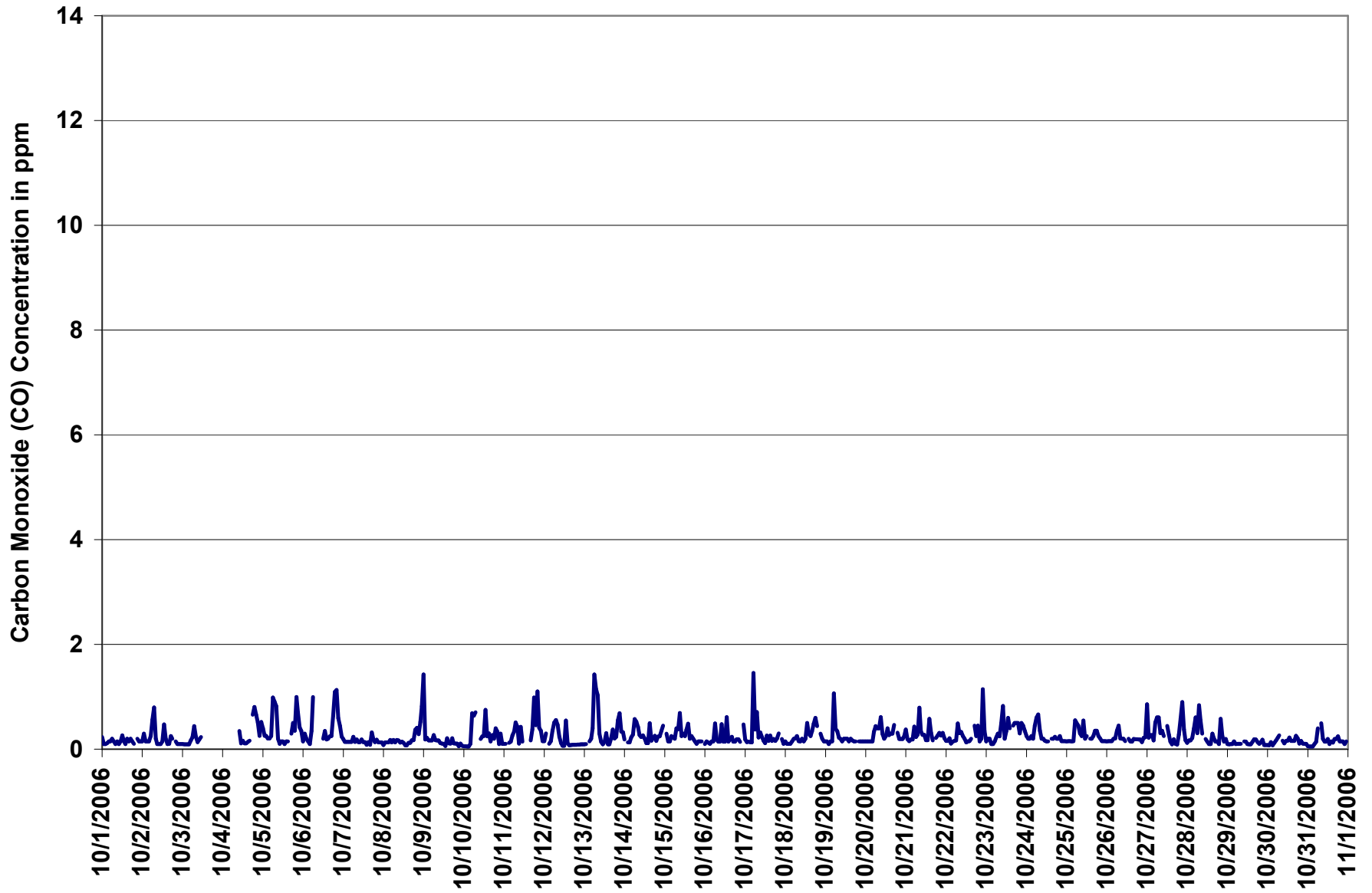
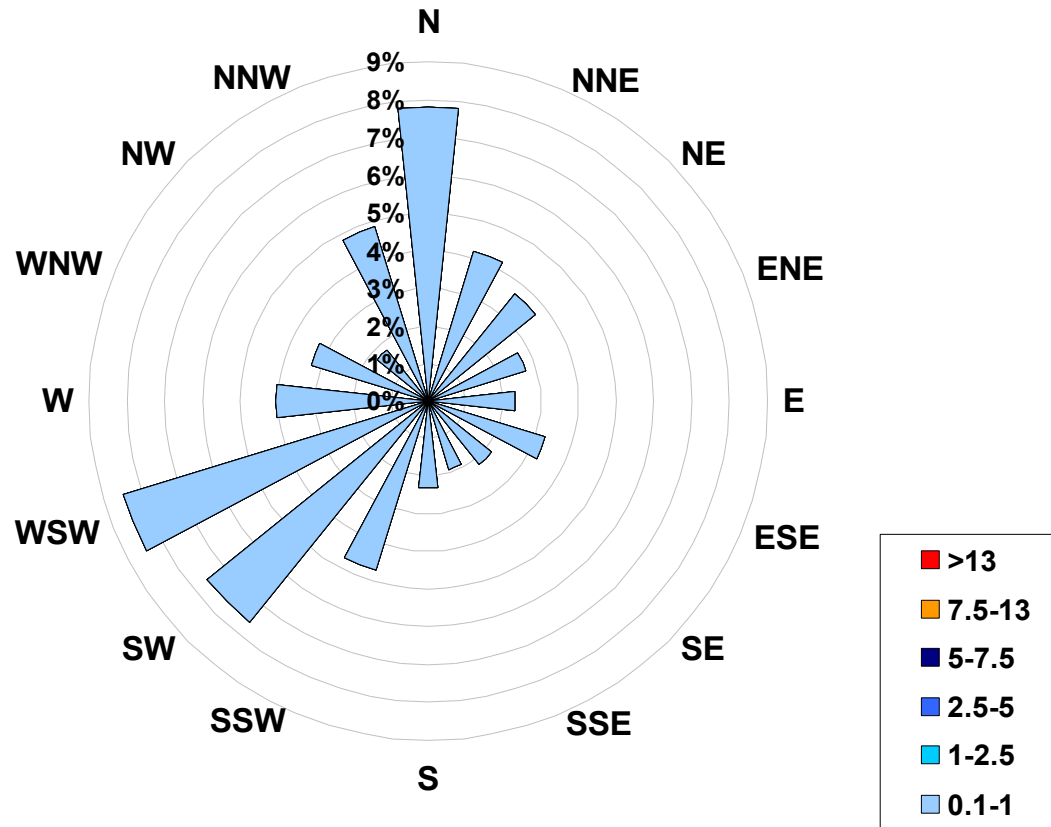


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	685
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			685



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

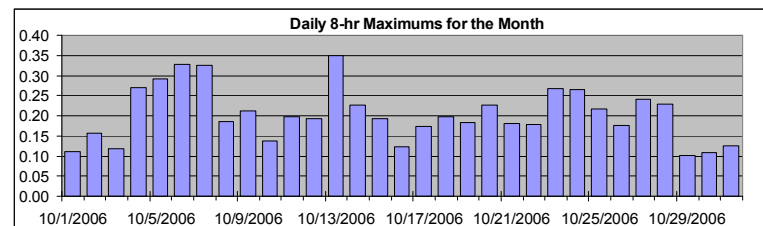
Station: Crescent Heights
 Station Owner: PAS

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.4 ppm 13-Oct 9:00 10:00

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



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

Day Mountain Standard Time																									Daily Maximum		
Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11
2-Oct-06		0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
3-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	N	N	N	0.12
4-Oct-06		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.27
5-Oct-06		0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.29
6-Oct-06		0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	N	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.3	0.3	0.3	0.3	0.33
7-Oct-06		0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.33
8-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.19
9-Oct-06		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	0.1	0.1	0.1	0.1	0.1	0.1	0.21
10-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14
11-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.2	0.2	0.20
12-Oct-06		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	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.19
13-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.35
14-Oct-06		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	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23
15-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.19
16-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12
17-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
18-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
19-Oct-06		0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18
20-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
21-Oct-06		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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.18
22-Oct-06		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.18
23-Oct-06		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.27
24-Oct-06		0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.26
25-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
26-Oct-06		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	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
27-Oct-06		0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.24
28-Oct-06		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23
29-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
30-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11
31-Oct-06		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
Hourly Max		0.33	0.31	0.29	0.24	0.20	0.19	0.21	0.28	0.34	0.35	0.32	0.31	0.30	0.28	0.24	0.21	0.18	0.18	0.21	0.22	0.27	0.31	0.33	0.33		



PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

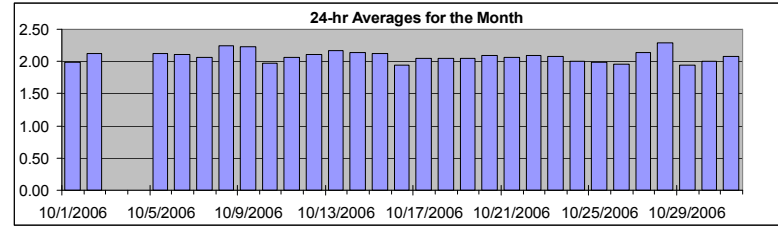
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Maximum 1-hr Average:	3.2	ppm	4-Oct	20:00 21:00
Maximum 24-hr Value:	2.3	ppm	28-Oct	



AIC Time:	29 hrs	Operational Time:	685 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.4	2.2	2.0	2.0	1.9	1.9	2.1 ppm	2.0 ppm

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Oct-06	1.8	1.8	1.9	2.0	2.1	2.2	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	A	2.1	2.2	2.2	1.99	2.25	
2-Oct-06	2.2	2.5	2.4	2.4	2.3	2.2	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.12	2.47
3-Oct-06	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	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.23	2.35
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	A	2.1	2.4	3.2	2.2	2.1	2.2	N	3.15
5-Oct-06	2.3	2.5	3.0	2.4	2.3	2.3	2.3	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.1	2.2	2.1	2.2	2.13	2.95	
6-Oct-06	2.0	2.1	2.0	2.0	1.9	2.0	2.2	M	C	C	C	C	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.4	2.4	2.3	2.3	2.12	2.40	
7-Oct-06	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.06	2.27	
8-Oct-06	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.4	2.3	2.4	2.24	2.60	
9-Oct-06	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.23	2.65	
10-Oct-06	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	A	A	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.97	2.11	
11-Oct-06	2.0	2.0	A	2.1	2.1	2.1	2.3	2.2	2.1	1.8	1.8	1.8	1.8	1.7	C	C	C	A	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.06	2.44	
12-Oct-06	2.2	2.2	A	2.2	2.4	2.5	2.5	2.4	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.11	2.52	
13-Oct-06	2.0	2.1	A	2.3	2.4	2.4	2.6	2.7	2.5	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.2	2.1	2.0	2.1	2.2	2.2	2.16	2.74	
14-Oct-06	2.2	A	2.2	2.5	2.5	2.4	2.6	2.7	2.4	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.14	2.70	
15-Oct-06	A	2.1	2.1	2.3	2.4	2.3	2.3	2.6	2.4	2.0	2.0	2.1	2.2	2.1	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	2.12	2.57		
16-Oct-06	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	1.94	2.00	
17-Oct-06	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.2	2.1	2.04	2.17	
18-Oct-06	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.1	A	2.2	2.2	2.2	2.2	2.05	2.23	
19-Oct-06	2.2	2.2	2.3	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.05	2.30		
20-Oct-06	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.0	1.9	2.0	2.1	2.1	2.2	2.1	2.1	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.09	2.21	
21-Oct-06	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.2	2.06	2.25		
22-Oct-06	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	A	A	2.0	2.0	2.1	1.9	2.4	2.5	2.4	2.09	2.48		
23-Oct-06	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	2.2	2.2	2.0	2.0	2.0	1.9	A	2.0	2.1	2.2	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.08	2.34		
24-Oct-06	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.00	2.30		
25-Oct-06	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.2	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	1.98	2.19		
26-Oct-06	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	1.95	2.13		
27-Oct-06	2.3	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.2	2.2	A	2.1	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.0	2.1	2.3	2.3	2.2	2.2	2.14	2.30		
28-Oct-06	2.2	2.2	2.2	2.3	2.4	2.9	2.5	2.6	2.7	2.5	A	2.3	2.2	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.4	2.1	2.0	2.0	2.0	2.29	2.93		
29-Oct-06	1.9	1.9	1.9	1.9	2.1	2.0	1.9	1.9	2.0	A	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.07		
30-Oct-06	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.00	2.07		
31-Oct-06	2.0	2.0	2.0	2.0	2.0	2.2	A	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.07	2.23		
Hourly Avg	2.11	2.11	2.12	2.13	2.15	2.16	2.19	2.20	2.17	2.07	2.01	1.99	1.98	1.97	1.97	1.98	2.00	2.03	2.05	2.06	2.11	2.10	2.12	2.13					
Hourly Max	2.65	2.56	2.95	2.52	2.50	2.93	2.64	2.74	2.70	2.49	2.21	2.27	2.16	2.13	2.14	2.18	2.16	2.34	2.29	2.38	3.15	2.39	2.48	2.60					

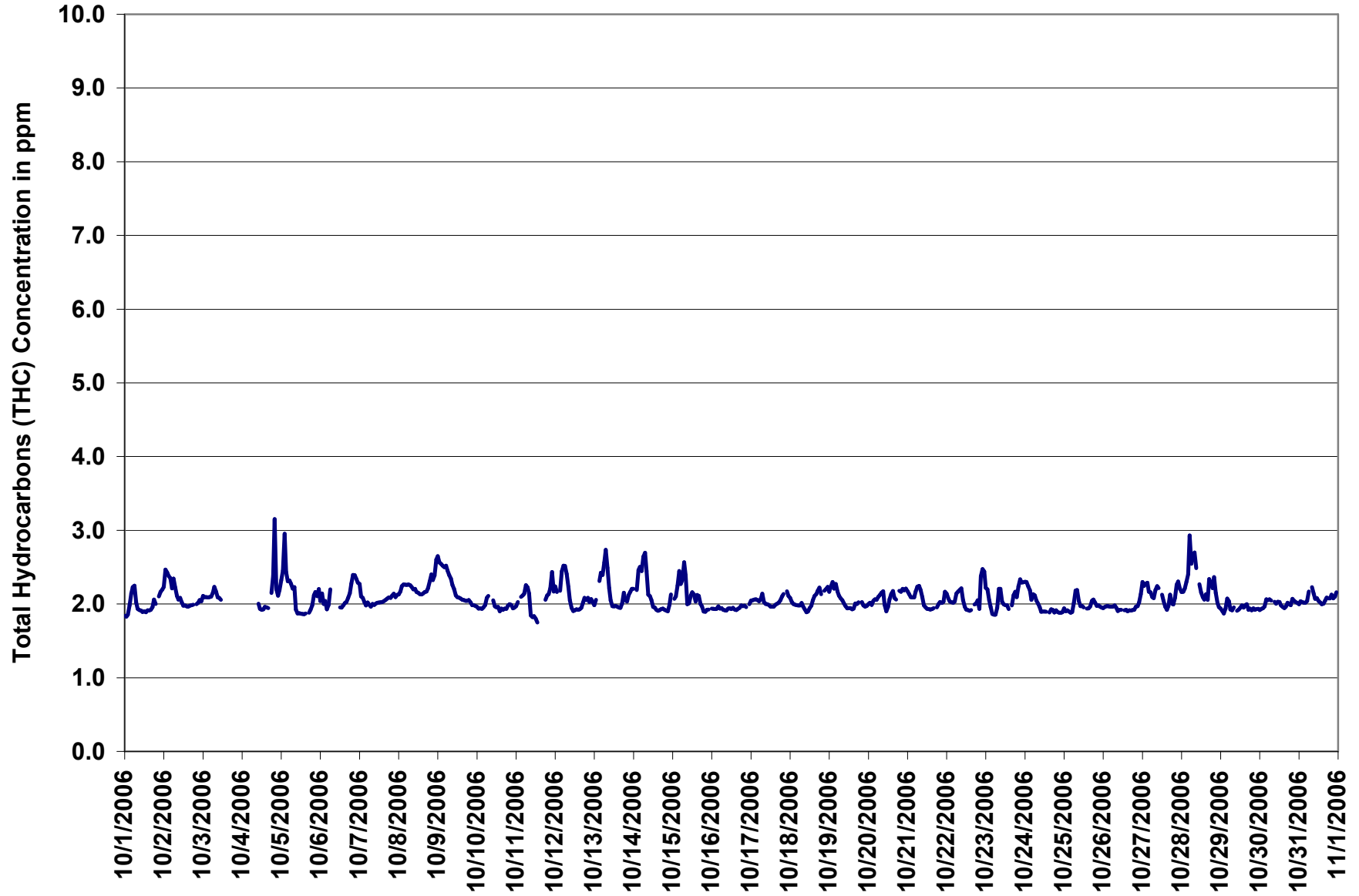


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend

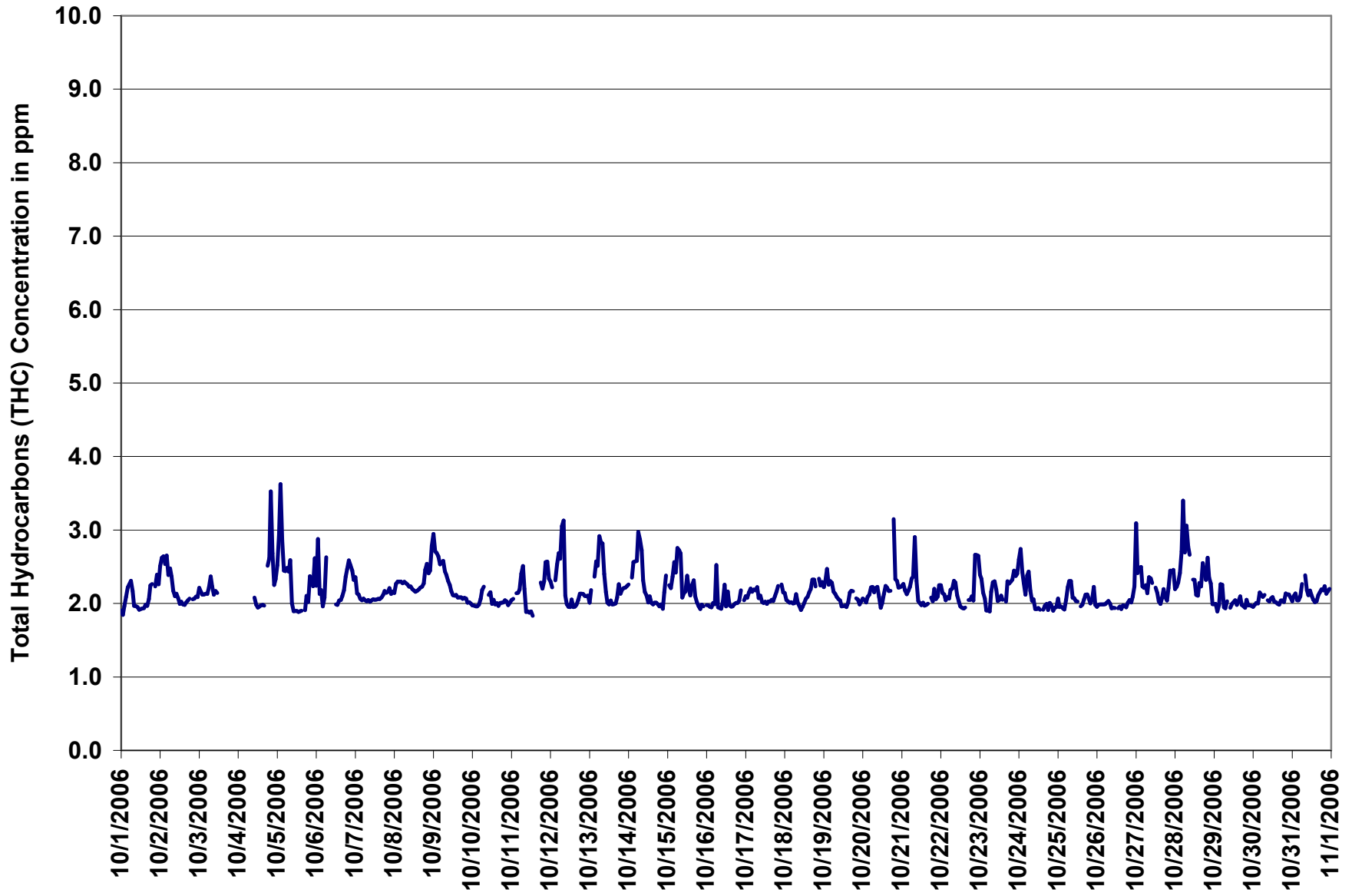
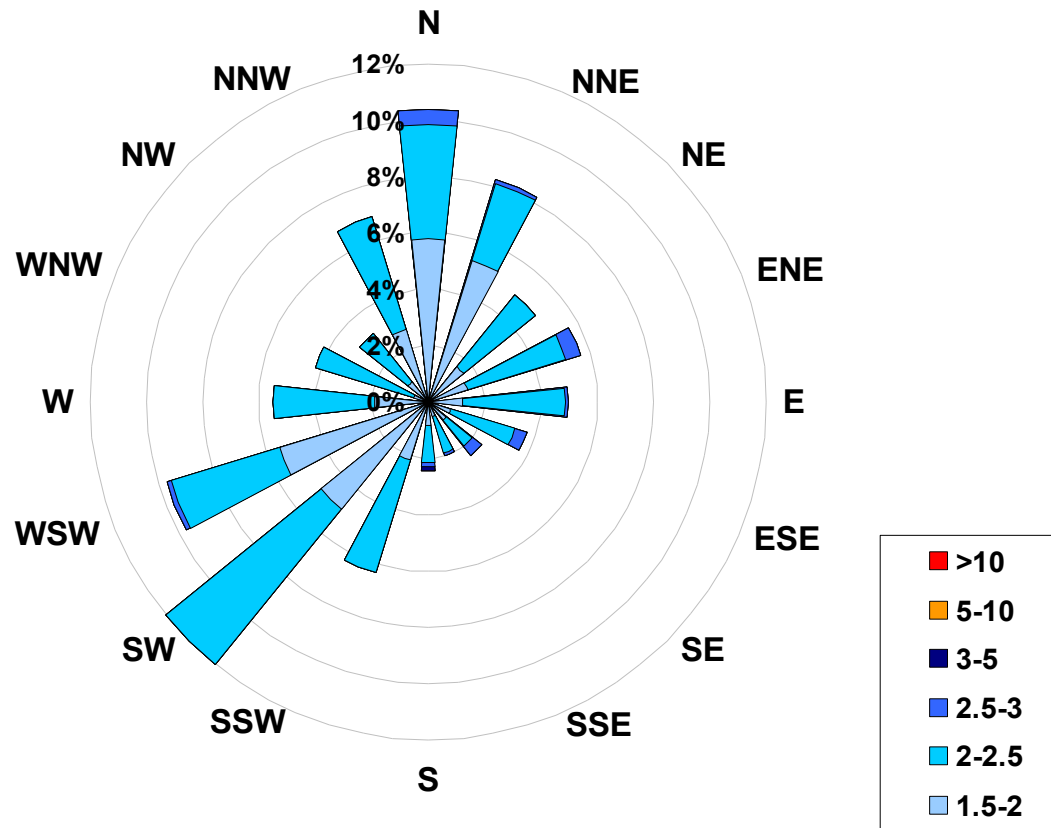


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		274
2	to 2.5		391
2.5	to 3		19
3	to 5		1
5	to 10		0
	> 10		0
Total Non-Zero Values			685



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

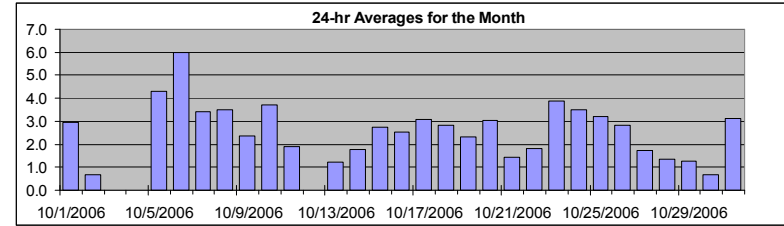
Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	22.2 µg/m ³ 6-Oct 19:00 20:00
Maximum 24-hr Value:	6.0 µg/m ³ 6-Oct

AIC Time:	0 hrs	Operational Time:	695 hrs
Calibration Time:	9 hrs	AMD Operational Uptime:	94.6%
Percentile	99	95	75
	7.0		3.5
	2.1		0.9
	0.0		0.0
	Average / Median		2.6
	2 µg/m ³		2.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Oct-06	12	7	9	7	9	8	7	1	0	0	0	D	0	0	0	D	0	0	0	0	0	1	2	2	3.0	12.0	
2-Oct-06	1	0	0	4	0	0	2	1	0	0	0	D	D	0	0	0	0	0	0	0	2	1	3	0	0	0.7	3.6
3-Oct-06	1	0	0	0	1	1	3	3	0	0	1	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.9
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	1	1	2	3	1	2	3	8	8	10	11	6	4	N	10.7
5-Oct-06	8	6	2	2	3	2	11	8	4	0	0	1	0	0	1	2	3	3	4	7	11	11	8	6	4.3	10.8	
6-Oct-06	4	4	1	5	2	3	5	M	C	C	C	C	3	2	9	D	1	0	2	22	16	11	12	6	6.0	22.2	
7-Oct-06	16	2	D	11	0	1	3	1	1	2	2	2	0	3	9	7	2	2	0	4	6	2	1	0	3.4	16.4	
8-Oct-06	5	8	3	5	5	4	4	4	4	3	2	5	2	0	0	2	4	3	2	2	4	5	5	5	3.5	7.8	
9-Oct-06	1	7	7	1	3	0	4	3	2	3	6	D	3	0	0	0	4	0	0	3	1	5	0	1	2.3	7.0	
10-Oct-06	D	6	D	0	11	4	D	0	8	17	2	2	3	6	1	5	2	2	1	3	0	3	1	3	3.7	16.6	
11-Oct-06	2	D	D	0	D	4	4	0	1	3	0	3	0	D	0	0	1	1	2	0	2	3	4	9	1.9	9.0	
12-Oct-06	1	3	4	2	6	9	0	D	C	C	C	C	C	D	D	0	0	0	0	0	0	0	0	0	N	8.6	
13-Oct-06	0	0	0	0	1	1	2	7	3	1	0	0	1	1	1	2	2	3	1	0	0	1	0	2	1.2	6.9	
14-Oct-06	1	1	1	1	1	1	6	4	4	3	3	2	1	1	0	0	1	1	2	2	2	1	1	2	1.8	5.6	
15-Oct-06	2	2	1	2	3	2	1	3	3	6	6	4	3	3	1	2	3	2	2	2	3	3	4	3	2.7	5.9	
16-Oct-06	4	6	4	4	3	3	3	3	3	3	4	1	2	1	1	2	2	1	2	2	2	2	2	2	2.5	5.6	
17-Oct-06	3	2	2	3	3	4	4	5	3	3	3	2	1	2	3	5	4	4	5	4	4	3	1	0	3.1	5.0	
18-Oct-06	0	1	0	0	1	1	2	3	3	4	3	4	3	3	3	4	3	6	7	2	3	4	4	4	2.8	6.6	
19-Oct-06	4	3	3	3	3	5	3	2	3	2	1	0	1	2	0	1	1	0	2	3	3	2	3	4	2.3	5.2	
20-Oct-06	4	4	3	3	3	3	5	4	6	6	1	0	0	2	1	3	2	3	3	4	4	3	2	2	3.1	6.3	
21-Oct-06	2	2	2	1	1	2	2	3	2	1	0	1	1	0	0	1	1	1	1	1	2	3	2	3	1.4	3.2	
22-Oct-06	1	1	2	2	2	2	1	3	3	3	2	3	1	0	2	2	2	4	3	2	1	1	1	1	1.8	4.1	
23-Oct-06	3	3	3	1	1	3	3	7	7	5	4	4	4	2	2	4	6	6	6	3	4	4	3	3	3.9	6.6	
24-Oct-06	2	2	2	2	3	5	3	4	4	3	1	2	2	3	2	4	5	4	5	5	5	4	6	5	3.5	6.4	
25-Oct-06	6	6	5	4	4	10	7	8	7	4	2	2	1	0	0	0	2	2	2	1	0	1	1	1	3.2	10.1	
26-Oct-06	1	2	2	2	4	5	6	4	3	3	2	2	2	2	2	3	3	4	3	5	3	2	2	1	2.8	6.1	
27-Oct-06	2	2	3	2	2	4	2	2	2	4	3	2	1	0	0	0	0	0	0	0	1	2	4	1	1.7	4.4	
28-Oct-06	1	1	1	2	2	2	0	1	2	3	2	1	0	2	1	1	2	1	2	1	1	3	0	1	1.3	2.6	
29-Oct-06	2	3	2	1	1	2	1	3	2	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1.3	3.2	
30-Oct-06	1	0	0	1	2	2	1	2	1	1	0	0	0	0	0	2	1	1	0	1	0	0	0	0	0.7	2.3	
31-Oct-06	0	0	1	1	1	2	7	5	5	4	2	3	3	3	4	4	4	4	4	4	4	3	4	4	3.1	6.7	
Hourly Avg	3.1	3.0	2.5	2.3	2.9	3.1	3.5	3.3	3.1	3.1	2.0	1.9	1.5	1.5	1.7	2.0	2.1	2.1	2.3	3.2	3.1	3.2	2.7	2.5			
Hourly Max	16.4	7.8	9.1	11.0	10.9	10.1	10.7	7.9	7.6	16.6	6.1	5.0	3.8	5.6	9.4	7.4	4.7	6.4	7.6	22.2	15.6	11.1	12.1	9.0			

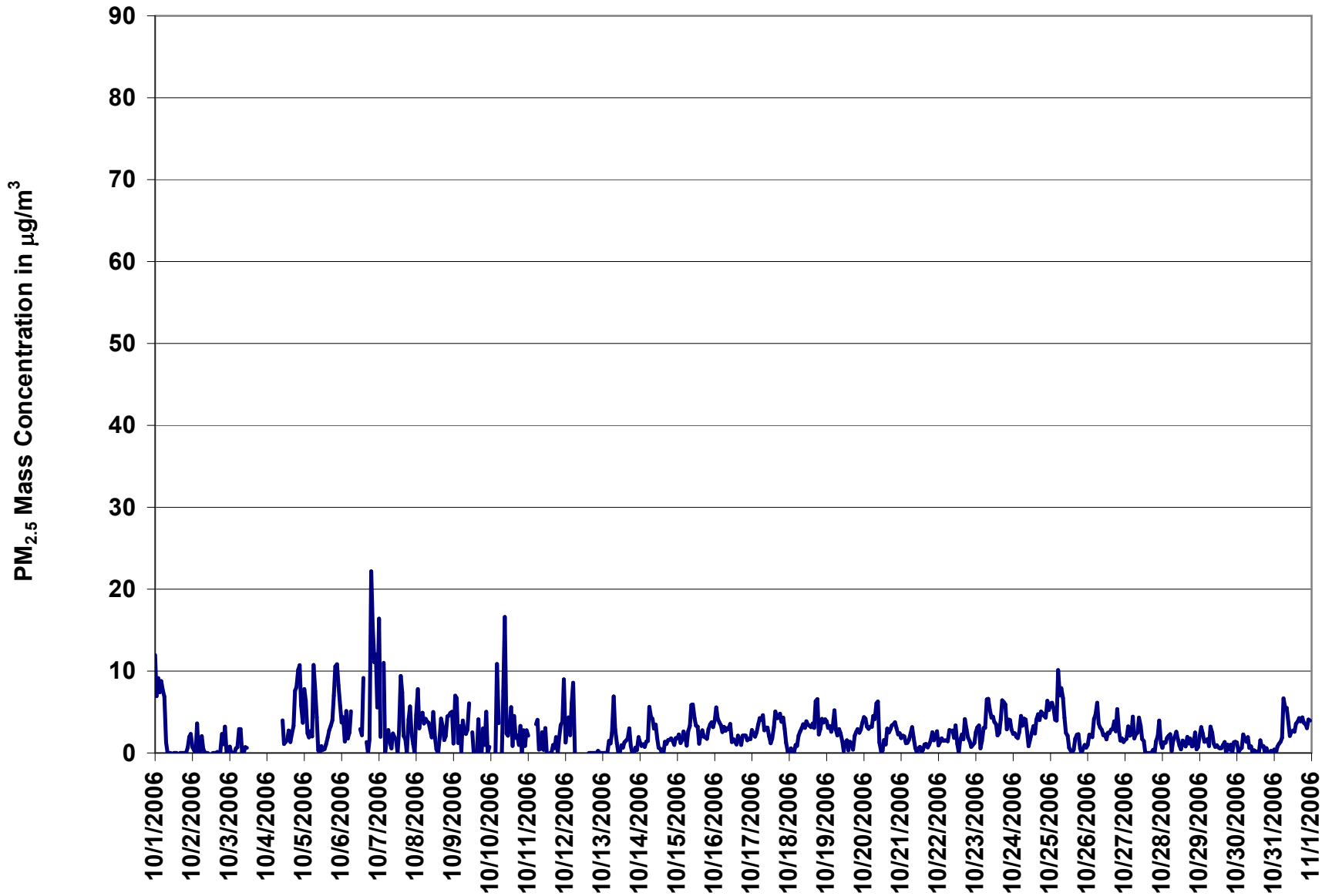


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

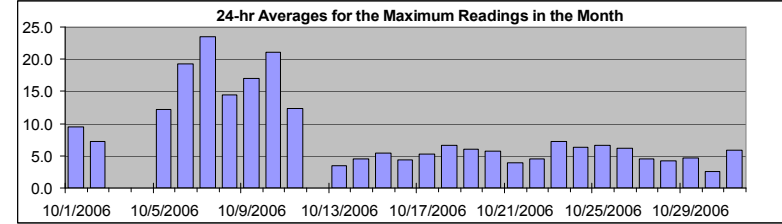
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	110.2	µg/m ³	7-Oct	0:00 1:00
Maximum 24-hr Value:	23.5	µg/m ³	7-Oct	



AIC Time:	0 hrs	Operational Time:	695 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	41.9	24.7	8.6	5.9	4.0	2.1	0.8	8.2	6 µg/m ³
									7.0 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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-Oct-06	28	13	18	13	14	12	14	7	5	4	6	D	5	6	9	D	4	6	5	5	7	9	9	8	9.5	27.6	
2-Oct-06	10	12	8	12	7	3	6	6	7	4	8	D	D	6	11	7	8	5	7	9	6	8	3	6	7.2	11.7	
3-Oct-06	8	4	4	5	6	7	8	9	5	8	7	6	N	N	N	N	N	N	N	N	N	N	N	N	N	N	9.3
4-Oct-06	N	N	N	N	N	N	N	N	N	N	10	7	10	10	13	12	11	12	20	16	17	17	11	12	N	19.5	
5-Oct-06	14	10	7	9	9	5	32	16	11	6	8	8	11	11	12	13	13	13	14	14	20	16	15	9	12.3	31.7	
6-Oct-06	9	11	8	12	8	8	11	M	C	C	C	C	17	12	40	D	26	31	38	47	25	20	17	10	19.3	46.9	
7-Oct-06	110	27	D	64	31	7	15	10	6	9	11	5	25	29	48	24	22	25	32	9	10	11	6	5	23.5	110.2	
8-Oct-06	40	28	12	18	16	22	25	10	20	9	9	12	10	8	4	7	11	14	6	6	20	10	10	17	14.4	39.6	
9-Oct-06	10	40	17	11	17	21	15	21	9	31	47	D	17	2	5	6	21	12	7	8	7	38	4	24	17.0	47.0	
10-Oct-06	D	34	D	13	42	10	D	30	15	73	13	12	15	35	19	33	38	8	7	8	5	8	6	20	21.1	72.8	
11-Oct-06	6	D	D	7	D	16	34	9	6	8	7	11	6	D	27	4	6	8	8	5	6	43	10	19	12.4	42.6	
12-Oct-06	5	24	13	10	14	21	27	D	C	C	C	C	C	D	D	2	0	0	0	1	2	2	2	0	N	26.9	
13-Oct-06	0	2	1	2	6	3	4	8	8	4	1	3	3	3	3	4	3	7	3	3	2	3	3	3	3.5	8.5	
14-Oct-06	3	3	4	2	3	4	16	7	6	5	5	4	2	3	2	3	4	3	4	3	5	4	5	4	4.4	15.8	
15-Oct-06	4	4	4	4	4	4	4	4	6	8	9	7	6	6	5	5	7	4	4	4	6	6	7	7	5.5	8.5	
16-Oct-06	7	9	6	5	5	5	5	4	6	6	6	3	4	4	3	5	4	2	4	3	4	3	3	4	4.4	9.3	
17-Oct-06	4	3	4	4	5	12	9	6	5	4	5	3	3	3	6	7	7	6	8	6	7	5	3	2	5.3	12.1	
18-Oct-06	2	2	1	1	3	3	3	5	6	5	5	7	6	6	6	7	6	24	23	7	6	10	6	8	6.6	23.5	
19-Oct-06	7	5	6	5	5	13	6	8	8	6	5	3	5	5	4	4	7	3	6	8	7	5	7	6	6.0	13.2	
20-Oct-06	8	8	5	6	6	5	7	6	11	8	8	4	2	5	2	6	5	5	4	6	5	6	4	4	5.7	10.7	
21-Oct-06	4	4	5	5	4	4	5	6	4	3	2	5	3	2	3	4	5	2	3	4	4	4	5	5	3.9	5.7	
22-Oct-06	2	3	3	4	4	8	3	6	5	5	5	6	3	4	5	6	5	8	8	5	4	2	2	3	4.6	7.8	
23-Oct-06	4	6	7	2	3	9	6	10	10	7	8	7	8	7	5	6	8	10	11	10	6	7	11	5	7.2	10.8	
24-Oct-06	5	4	4	3	4	8	5	8	6	5	4	4	5	7	6	8	8	9	9	8	8	6	9	9	6.4	9.5	
25-Oct-06	11	10	8	7	8	22	9	10	9	7	6	6	3	4	3	3	6	7	7	4	2	3	3	2	6.6	21.7	
26-Oct-06	2	4	4	3	6	7	12	6	5	6	7	6	5	5	6	9	8	8	6	8	8	7	6	6	6.2	11.8	
27-Oct-06	4	4	6	5	5	9	5	7	5	7	7	4	5	1	0	2	3	4	4	3	7	3	5	3	4.5	9.3	
28-Oct-06	2	2	3	5	7	4	2	3	4	5	5	2	5	5	4	4	6	4	6	5	4	5	2	3	4.2	6.8	
29-Oct-06	5	7	5	5	4	5	8	5	5	5	2	2	5	3	3	4	4	4	4	6	7	2	4	6	4.6	8.0	
30-Oct-06	4	3	3	2	4	3	3	4	3	4	1	2	3	1	1	3	2	3	2	3	1	2	3	2	2.6	4.4	
31-Oct-06	3	2	3	3	3	5	27	9	8	6	3	4	5	5	6	5	6	5	6	5	5	5	5	6	5.9	26.5	
Hourly Avg	11.1	9.9	6.3	8.3	8.8	8.8	11.2	8.6	7.2	9.2	7.5	5.6	7.0	7.1	9.0	7.3	8.8	8.5	8.9	7.6	7.4	9.0	6.3	7.3			
Hourly Max	110.2	39.6	18.3	64.2	41.8	22.2	34.4	30.5	20.4	72.8	47.0	12.0	24.7	35.2	48.3	33.2	38.0	31.3	37.7	46.9	24.8	42.6	16.9	23.6			

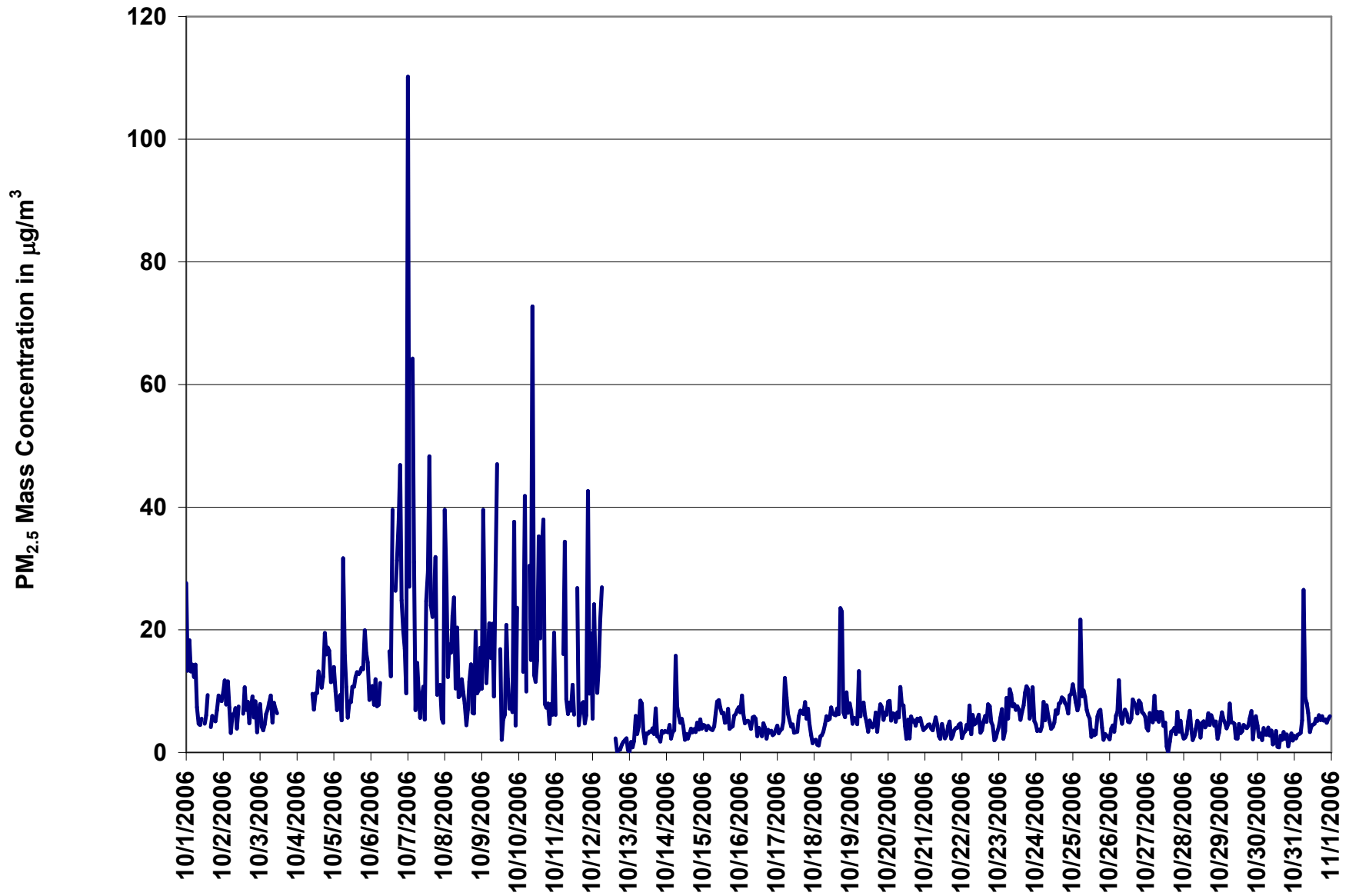
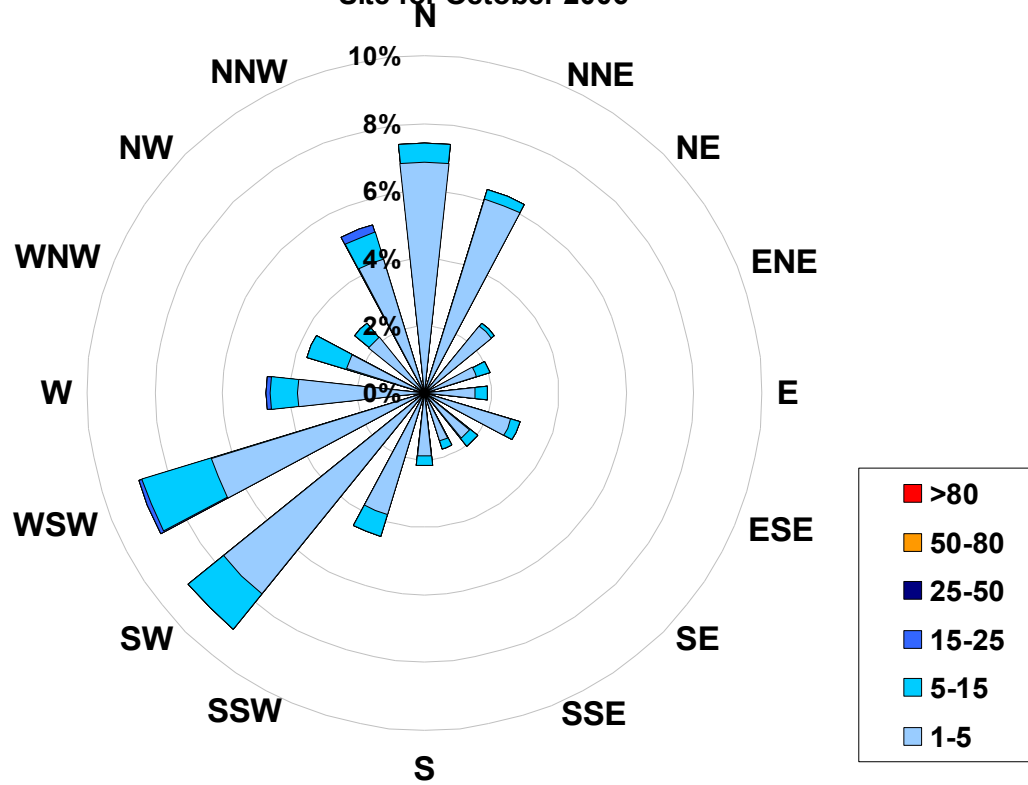


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 October 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		614
5	to 15		77
15	to 25		4
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			695



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

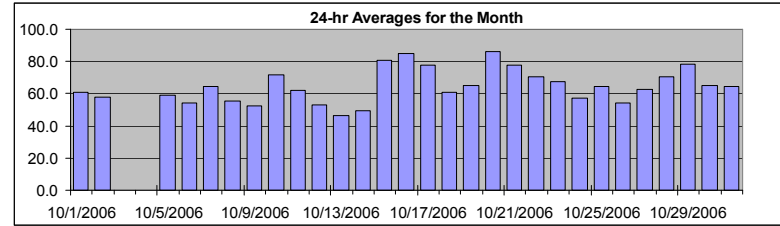
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	91.3 %	16-Oct	1:00 2:00
Maximum 24-hr Value:	86.3 %	20-Oct	



AIC Time:	0 hrs		Operational Time:	720 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	96.8%					
Percentile	99	95	75	50	25	5	1	Average	Median
	90.5	87.7	78.6	67.1	51.8	34.2	25.5	64.4 %	67.1 %

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																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-06	37	35	39	44	59	74	82	82	77	73	69	67	60	53	54	53	52	55	55	60	66	70	74	78	61.1	81.7		
2-Oct-06	78	81	81	82	82	81	83	78	66	55	46	38	35	34	34	36	40	43	45	49	52	54	56	57	57.8	82.7		
3-Oct-06	58	59	59	59	60	61	63	66	63	60	53	48	N	N	N	N	N	N	N	N	N	N	N	N	N	65.7		
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	57	51	47	44	43	40	41	47	54	61	67	71	75	79	N	78.8
5-Oct-06	84	87	89	88	89	89	88	78	68	55	48	43	40	37	32	25	26	32	40	42	52	59	61	62	59.0	89.4		
6-Oct-06	62	66	64	69	63	64	72	M	M	52	47	41	35	35	35	33	36	44	51	57	63	68	72	70	54.4	71.9		
7-Oct-06	74	73	76	77	78	82	80	79	77	74	68	63	54	49	43	39	41	50	54	58	60	65	66	65	64.4	82.0		
8-Oct-06	71	74	77	78	79	79	79	75	69	64	54	45	39	37	36	35	37	39	36	40	44	46	49	53	55.7	79.0		
9-Oct-06	59	68	74	78	78	80	83	79	75	68	51	36	27	27	25	23	24	31	39	45	44	43	46	48	52.1	83.2		
10-Oct-06	47	47	49	51	54	58	64	72	71	69	60	62	77	81	83	86	88	87	87	88	89	87	82	83	71.8	89.2		
11-Oct-06	86	77	76	71	68	69	74	75	68	74	71	68	56	43	37	35	31	36	43	49	54	68	79	84	62.2	86.0		
12-Oct-06	85	85	86	86	85	85	86	83	77	65	50	35	28	24	19	22	22	26	32	33	35	38	39	40	52.8	86.0		
13-Oct-06	43	48	56	61	65	66	71	66	56	51	40	33	34	33	33	33	36	41	41	37	37	41	42	47	46.3	70.8		
14-Oct-06	48	49	51	54	58	61	69	70	64	53	44	38	36	34	29	28	32	40	47	50	52	51	58	65	49.2	70.2		
15-Oct-06	68	65	69	74	73	74	74	75	70	71	81	87	84	84	85	86	88	90	90	89	89	89	90	91	80.7	90.5		
16-Oct-06	91	91	91	90	90	89	88	88	87	86	86	84	84	82	82	81	82	81	82	81	82	79	78	79	84.7	91.3		
17-Oct-06	82	82	81	83	84	84	83	83	79	78	80	74	69	66	65	66	66	69	74	79	82	85	85	83	77.5	85.0		
18-Oct-06	82	78	75	72	70	68	66	65	61	61	53	44	42	45	51	52	52	55	57	59	60	61	67	65	60.9	81.9		
19-Oct-06	70	72	74	73	74	73	74	73	71	65	58	47	46	43	42	43	49	55	62	73	82	82	82	82	65.1	82.5		
20-Oct-06	84	90	91	91	90	91	91	90	90	90	89	85	83	84	83	83	82	79	81	83	84	86	86	85	86.3	90.8		
21-Oct-06	85	84	85	87	88	88	88	88	89	86	81	77	77	71	63	63	63	64	64	70	74	74	78	82	77.8	88.7		
22-Oct-06	84	86	87	86	85	87	89	89	81	75	66	57	51	47	47	44	46	56	68	72	72	72	73	78	70.7	89.4		
23-Oct-06	76	76	77	69	60	56	60	65	74	74	69	67	59	51	48	49	53	62	67	74	79	82	84	85	67.4	85.2		
24-Oct-06	87	85	85	84	81	81	78	73	66	58	43	34	32	33	30	28	35	37	44	50	52	55	58	61	57.1	86.9		
25-Oct-06	67	69	69	67	72	75	79	77	80	76	74	67	57	51	43	40	44	54	58	61	65	66	65	68	64.4	79.7		
26-Oct-06	70	70	70	70	68	67	68	65	56	52	46	38	38	37	36	37	40	44	46	45	53	55	60	65	54.0	70.4		
27-Oct-06	67	69	71	71	71	73	75	77	78	76	72	64	54	44	36	33	38	45	49	57	66	71	74	76	62.9	77.8		
28-Oct-06	75	77	75	77	80	80	79	80	78	76	67	63	57	54	53	52	57	63	66	68	72	78	81	83	70.5	82.8		
29-Oct-06	84	80	75	72	71	72	70	76	82	85	86	85	81	81	81	82	83	83	83	83	78	70	66	66	78.1	85.6		
30-Oct-06	66	67	68	71	73	78	77	76	73	68	64	60	60	51	50	54	54	62	62	64	67	67	68	67	65.2	77.6		
31-Oct-06	68	68	69	70	70	71	72	72	68	63	60	58	55	55	56	63	63	63	64	65	64	65	66	66	64.7	72.2		
Hourly Avg	71.2	71.9	72.8	73.6	74.1	75.2	76.8	76.3	72.9	68.4	62.3	56.8	53.2	50.3	48.5	48.1	50.0	54.5	57.9	61.3	64.6	66.6	68.7	70.4				
Hourly Max	91.0	91.3	90.8	90.7	90.5	90.6	90.6	90.4	89.8	89.5	89.1	86.5	84.2	84.2	85.0	86.3	87.9	90.2	89.6	88.6	89.2	89.1	90.4	90.5				

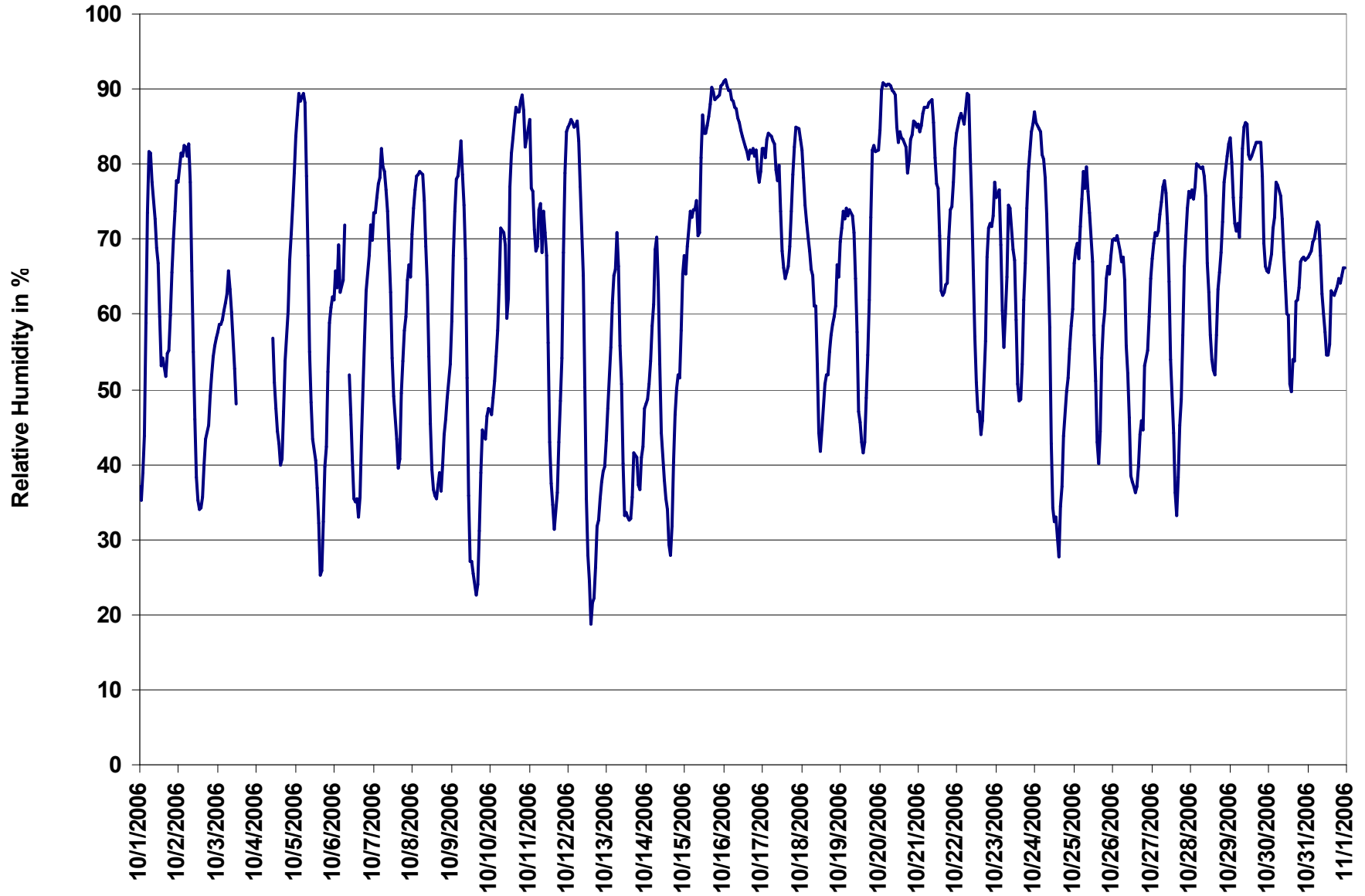


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

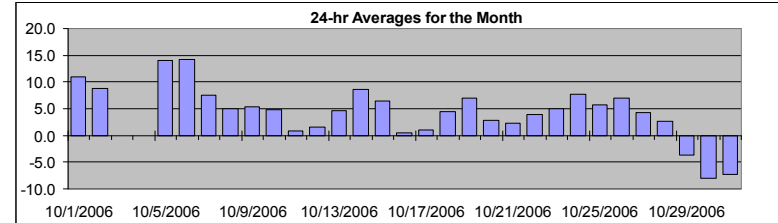
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	25.1 °C	5-Oct	15:00 16:00
Maximum 24-hr Value:	14.2 °C	6-Oct	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	96.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.4	14.8	8.7	4.1	0.7	-5.1	-13.5	4.6 °C	4.1 °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																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			23:00
1-Oct-06	14	15	14	12	9	8	7	8	10	11	12	13	14	15	14	14	14	13	11	9	8	7	7	6	11.0	15.2	
2-Oct-06	6	4	4	4	5	5	5	6	8	10	11	13	13	14	14	13	13	12	11	9	9	8	8	8	8.7	13.7	
3-Oct-06	7	7	7	7	7	7	6	6	7	8	10	11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	11.4
4-Oct-06	N	N	N	N	N	N	N	N	N	N	N	14	16	17	18	18	20	19	17	14	12	10	9	8	N	19.5	
5-Oct-06	7	6	5	4	4	4	4	8	12	17	19	20	22	23	24	25	25	22	19	17	15	13	12	12	14.1	25.1	
6-Oct-06	12	11	12	11	12	11	9	M	M	15	17	19	20	20	20	20	20	17	15	13	12	10	9	9	14.2	20.5	
7-Oct-06	7	8	9	8	8	8	8	8	7	7	8	10	11	11	11	11	11	8	6	5	3	3	3	3	7.6	11.3	
8-Oct-06	2	1	0	-1	-1	-1	-2	-1	1	4	7	8	10	11	12	11	11	10	9	8	6	5	5	4	5.1	11.5	
9-Oct-06	3	1	-1	-2	-3	-3	-3	-2	1	5	9	11	12	12	13	13	12	10	8	6	6	6	6	5	5.3	12.8	
10-Oct-06	6	6	6	5	4	4	4	4	4	7	9	9	8	7	6	6	5	4	3	2	2	1	1	1	4.8	9.2	
11-Oct-06	1	0	0	-1	-1	-2	-2	-1	0	0	1	2	4	5	5	6	5	3	2	1	0	-2	-3	-3	0.9	5.7	
12-Oct-06	-3	-4	-4	-4	-5	-4	-4	-3	-1	2	4	6	7	8	8	8	6	5	3	3	3	3	3	3	1.6	7.9	
13-Oct-06	2	1	-1	-2	-2	-3	-4	-2	1	4	7	10	11	12	13	13	12	10	8	6	5	4	2	1	4.6	13.3	
14-Oct-06	2	2	2	2	1	0	0	0	3	7	10	14	16	17	18	18	17	14	12	12	12	10	7	7	8.6	18.2	
15-Oct-06	7	8	7	6	6	6	5	6	7	9	9	8	9	8	7	7	7	6	6	5	4	4	4	3	6.4	9.4	
16-Oct-06	3	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0.5	2.6	
17-Oct-06	-1	-1	-1	-1	-1	-1	0	0	0	1	1	2	3	3	4	4	4	3	3	2	1	0	0	-1	1.0	3.8	
18-Oct-06	-1	0	0	0	1	1	1	1	4	5	8	10	10	9	8	7	7	7	6	5	4	4	4	4	4.5	10.2	
19-Oct-06	4	4	3	3	3	3	3	3	4	7	9	12	13	14	14	13	12	10	9	7	5	5	5	5	7.0	13.6	
20-Oct-06	4	4	3	3	2	2	2	2	3	4	5	5	5	4	3	2	3	2	2	2	1	1	1	2	2.8	5.2	
21-Oct-06	2	2	2	2	2	1	2	2	2	2	3	4	4	4	4	4	3	3	2	1	2	1	1	1	2.3	4.1	
22-Oct-06	1	0	0	0	0	-1	-2	-1	1	3	5	8	10	11	11	11	10	8	5	4	3	3	3	1	3.9	11.5	
23-Oct-06	2	2	2	2	4	5	4	3	2	3	4	5	8	11	12	12	12	9	8	5	4	2	1	1	5.1	12.3	
24-Oct-06	0	1	1	0	1	1	2	3	5	9	12	14	14	15	16	17	15	12	10	9	8	7	6	6	7.8	16.8	
25-Oct-06	4	4	4	4	3	2	1	2	4	6	6	8	10	11	12	12	11	8	7	5	4	3	2	2	5.7	12.2	
26-Oct-06	1	1	1	1	2	2	2	3	6	8	11	13	13	13	13	13	11	10	10	7	5	4	3	7.0	13.4		
27-Oct-06	2	2	2	3	3	3	3	3	3	3	4	6	8	9	10	11	9	7	5	4	2	1	1	0	4.3	10.6	
28-Oct-06	-1	-1	-1	-1	-1	-2	-2	-2	-1	1	4	6	8	9	10	10	8	6	5	5	4	2	1	-1	2.7	9.9	
29-Oct-06	-1	-2	-2	-2	-2	-2	-1	-1	-2	-2	-2	-2	-3	-3	-4	-4	-5	-6	-6	-7	-7	-8	-8	-8	-3.7	-0.7	
30-Oct-06	-9	-9	-9	-9	-8	-8	-8	-7	-7	-6	-5	-5	-5	-4	-4	-5	-5	-8	-9	-10	-12	-13	-14	-14	-8.0	-4.2	
31-Oct-06	-14	-13	-14	-14	-14	-14	-14	-13	-10	-6	-4	-3	-2	-2	-2	-3	-3	-3	-4	-4	-4	-4	-5	-5	-7.3	-1.9	
Hourly Avg	2.2	2.0	1.8	1.4	1.3	1.1	0.9	1.2	2.7	4.8	6.8	8.2	8.9	9.5	9.6	9.7	9.0	7.4	6.0	4.9	3.9	3.2	2.5	2.0			
Hourly Max	14.5	15.2	13.7	12.2	11.7	10.7	9.0	8.4	12.1	17.1	19.1	20.5	21.7	23.0	24.3	25.1	24.6	22.0	18.7	17.3	14.6	12.6	11.7	11.5			

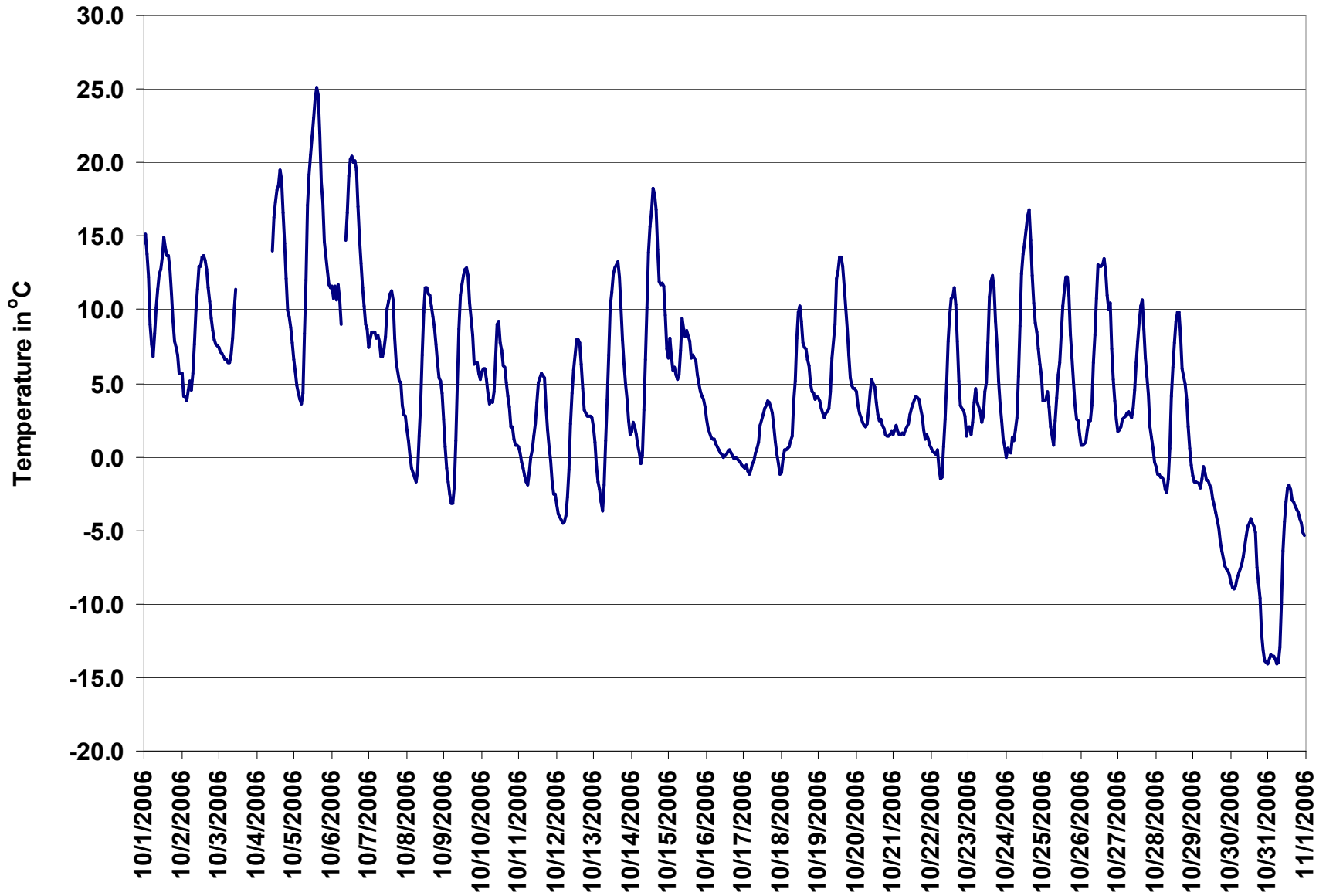


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

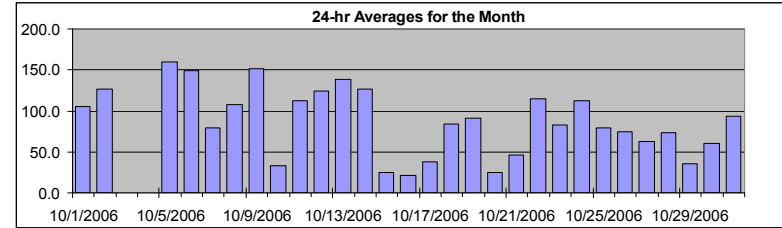
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	574.2	W/m ²	4-Oct	11:00 12:00
Maximum 24-hr Value:	160.0	W/m ²	5-Oct	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	96.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	540.7	419.5	137.9	0.3	0.1	0.0	0.0	89.0 W/m ²	0.3 W/m 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																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-06	0	0	0	0	0	0	18	142	206	256	403	212	316	414	187	173	153	40	2	0	0	0	0	0	105.1	413.7
2-Oct-06	0	0	0	0	0	0	9	77	206	343	415	517	392	432	327	191	104	25	0	0	0	0	0	126.6	517.2	
3-Oct-06	0	0	0	0	0	0	1	16	64	131	205	225	N	N	N	N	N	N	N	N	N	N	N	N	N	225.1
4-Oct-06	N	N	N	N	N	N	N	N	N	N	500	574	559	527	318	315	169	29	0	0	0	0	0	N	574.2	
5-Oct-06	0	0	0	0	0	0	10	122	261	400	505	568	568	539	330	333	180	24	0	0	0	0	0	160.0	567.7	
6-Oct-06	0	0	0	0	0	0	4	M	M	380	480	541	543	515	318	312	171	22	0	0	0	0	0	149.4	543.2	
7-Oct-06	0	0	0	0	0	0	1	4	21	125	150	188	314	338	243	305	185	24	0	0	0	0	0	79.1	338.4	
8-Oct-06	0	0	0	0	0	0	6	84	185	210	327	475	510	398	207	134	38	10	0	0	0	0	0	107.6	510.1	
9-Oct-06	0	0	0	0	0	0	6	104	251	385	489	552	550	516	300	307	159	16	0	0	0	0	0	151.4	551.8	
10-Oct-06	0	0	0	0	0	0	0	15	55	117	149	117	132	80	85	35	13	3	0	0	0	0	0	33.4	148.9	
11-Oct-06	0	0	0	0	0	0	11	139	152	188	232	299	402	438	352	300	185	14	0	0	0	0	0	113.0	438.0	
12-Oct-06	0	0	0	0	0	0	3	41	181	319	387	475	387	489	366	229	81	14	0	0	0	0	0	123.9	488.6	
13-Oct-06	0	0	0	0	0	0	4	78	210	346	454	517	514	456	364	282	100	9	0	0	0	0	0	139.0	517.4	
14-Oct-06	0	0	0	0	0	0	3	78	218	347	446	511	397	384	329	200	106	8	0	0	0	0	0	126.1	510.6	
15-Oct-06	0	0	0	0	0	0	2	22	68	72	46	98	120	64	52	25	16	5	0	0	0	0	0	24.6	120.5	
16-Oct-06	0	0	0	0	0	0	0	6	21	33	35	50	65	113	77	75	33	4	0	0	0	0	0	21.4	113.3	
17-Oct-06	0	0	0	0	0	0	1	13	35	40	95	193	178	136	107	65	28	4	0	0	0	0	0	37.3	192.6	
18-Oct-06	0	0	0	0	0	0	2	51	221	255	339	344	311	164	146	99	68	3	0	0	0	0	0	83.5	344.2	
19-Oct-06	0	0	0	0	0	0	1	13	89	184	359	481	301	338	211	157	37	4	0	0	0	0	0	90.7	481.1	
20-Oct-06	0	0	0	0	0	0	0	10	50	40	57	113	81	88	73	50	22	2	0	0	0	0	0	24.4	113.2	
21-Oct-06	0	0	0	0	0	0	0	5	22	85	131	214	210	216	134	61	26	3	0	0	0	0	0	46.2	215.6	
22-Oct-06	0	0	0	0	0	0	1	55	190	304	410	463	392	420	245	206	74	5	0	0	0	0	0	115.2	463.2	
23-Oct-06	0	0	0	0	0	0	1	23	102	144	182	258	297	426	281	185	77	3	0	0	0	0	0	82.5	426.3	
24-Oct-06	0	0	0	0	0	0	1	45	180	303	400	457	451	420	211	197	39	4	0	0	0	0	0	112.9	457.0	
25-Oct-06	0	0	0	0	0	0	0	9	46	80	132	328	412	406	210	212	72	2	0	0	0	0	0	79.6	411.5	
26-Oct-06	0	0	0	0	0	0	1	38	183	186	291	375	215	138	121	180	66	2	0	0	0	0	0	74.9	374.7	
27-Oct-06	0	0	0	0	0	0	0	5	38	76	130	208	256	371	194	184	33	1	0	0	0	0	0	62.4	370.7	
28-Oct-06	0	0	0	0	0	0	0	16	75	162	279	254	321	304	198	100	33	1	0	0	0	0	0	72.8	321.4	
29-Oct-06	0	0	0	0	0	0	0	3	24	87	131	139	142	122	114	60	20	1	0	0	0	0	0	35.2	142.4	
30-Oct-06	0	0	0	0	0	0	0	11	65	160	222	260	260	216	143	72	41	2	0	0	0	0	0	60.5	260.3	
31-Oct-06	0	0	0	0	0	0	0	25	128	277	373	374	421	348	174	94	33	1	0	0	0	0	0	93.7	421.1	
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	2.9	43.1	122.2	201.1	282.5	334.9	333.9	327.2	213.9	171.3	78.8	9.4	0.2	0.1	0.1	0.1	0.1			
Hourly Max	0.2	0.2	0.2	0.1	0.1	0.1	17.7	141.8	260.9	400.4	505.5	574.2	567.7	539.3	366.1	332.6	185.3	40.5	1.6	0.3	0.3	0.2	0.2	0.2		

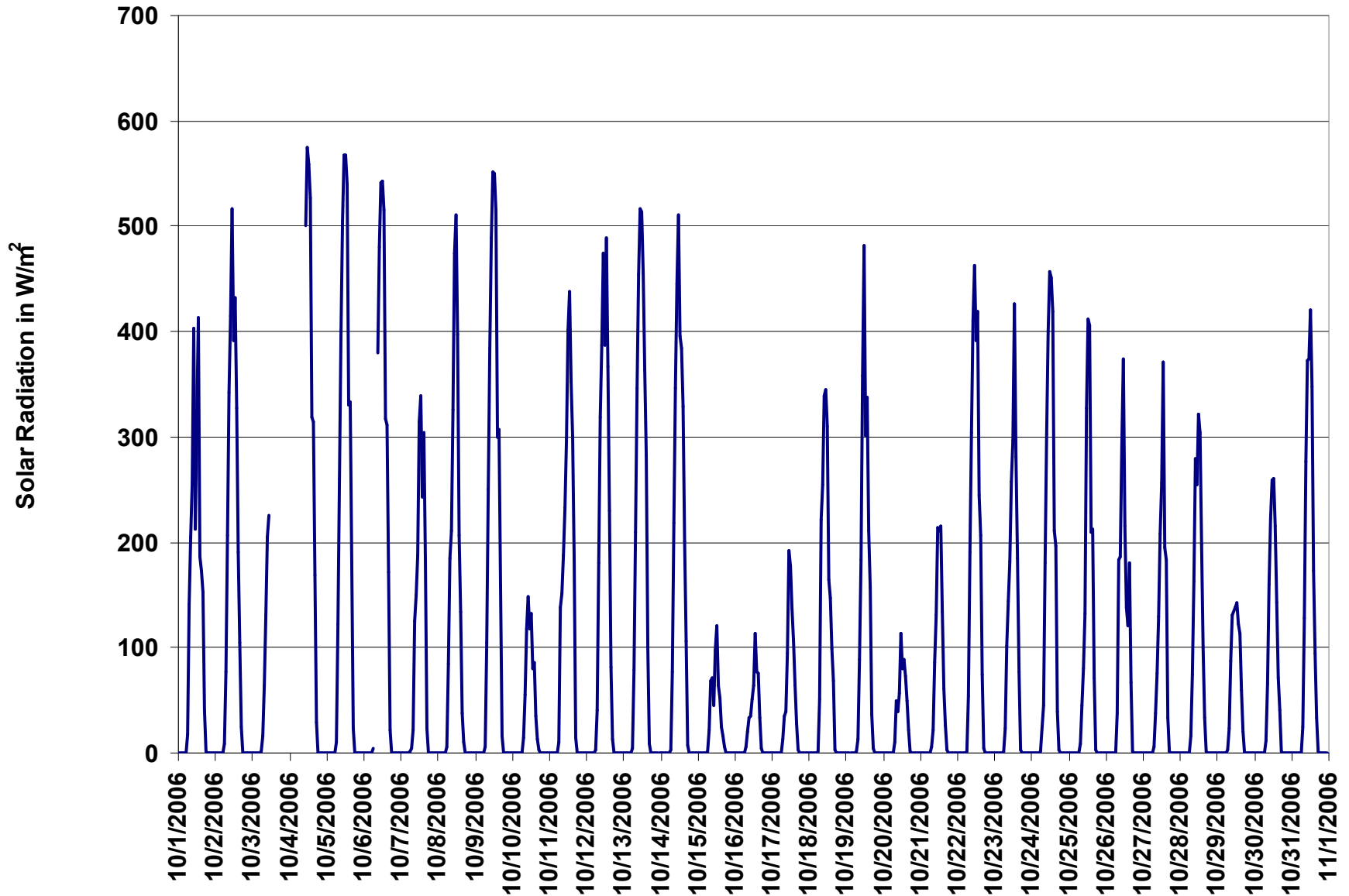


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

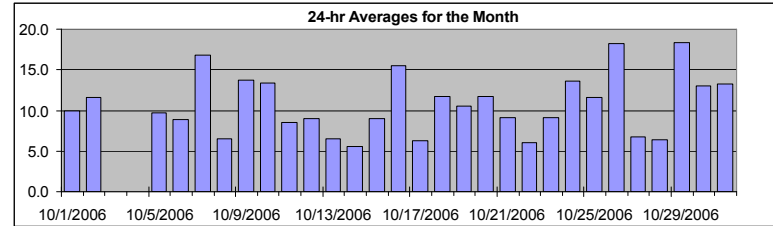
Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	27.5	km/hr	24-Oct	11:00 12:00
Maximum 24-hr Value:	18.3	km/hr	29-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.8%				
Percentile	99	95	75	50	25	5	1	AverageS
	25.5	21.4	14.0	9.6	5.9	3.6	2.8	10.6 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-06	12	14	10	9	8	11	10	11	12	10	12	12	12	10	11	12	13	12	8	11	9	7	8	5	5	10.0	14.4
2-Oct-06	5	6	7	5	10	11	6	6	11	13	13	15	16	14	15	14	16	17	14	11	13	13	12	12	11.6	17.3	
3-Oct-06	13	14	11	11	14	13	9	10	14	13	12	11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	14.1
4-Oct-06	N	N	N	N	N	N	N	N	N	N	5	6	5	7	5	4	4	5	7	5	5	5	5	4	N	6.7	
5-Oct-06	3	3	3	3	4	3	3	2	5	9	25	27	24	23	21	18	13	8	4	5	6	7	7	6	9.7	26.6	
6-Oct-06	6	6	7	10	12	5	5	M	M	10	13	13	16	17	14	15	11	6	4	4	4	5	4	8	8.9	17.0	
7-Oct-06	13	13	13	14	16	16	20	22	24	25	23	20	21	21	22	22	21	19	14	10	10	8	8	9	16.8	24.9	
8-Oct-06	8	8	7	7	8	7	8	11	10	8	4	4	7	8	9	6	5	4	6	5	6	3	2	5	6.5	10.8	
9-Oct-06	4	4	5	6	6	6	7	9	9	13	13	17	20	20	21	24	24	20	15	14	18	22	18	17	13.8	24.2	
10-Oct-06	22	21	19	16	14	8	5	8	11	9	12	17	15	13	14	12	16	13	15	13	13	15	11	8	13.3	22.1	
11-Oct-06	10	9	9	6	5	4	5	5	6	8	10	11	15	17	17	15	14	10	5	3	5	4	5	5	8.5	16.9	
12-Oct-06	5	4	4	5	4	4	3	4	6	7	12	13	11	11	12	13	14	16	14	12	10	10	11	12	9.0	15.6	
13-Oct-06	11	9	5	3	3	3	3	3	4	6	7	5	6	6	7	7	8	9	11	13	10	7	6	4	6.5	13.1	
14-Oct-06	3	4	3	2	4	4	4	5	5	5	4	5	6	6	8	11	9	9	7	9	5	5	5	4	5.6	10.7	
15-Oct-06	7	7	8	4	3	7	4	3	8	9	7	6	10	8	10	9	13	15	17	14	13	10	10	14	9.0	17.0	
16-Oct-06	13	16	17	17	15	17	19	21	19	20	16	17	19	18	17	19	16	16	13	12	9	12	9	5	15.6	21.4	
17-Oct-06	5	5	4	5	5	5	5	5	6	6	7	7	8	7	8	6	7	5	6	6	5	7	10	10	6.3	10.5	
18-Oct-06	13	15	15	15	13	16	20	12	17	20	16	13	13	13	11	8	6	4	5	9	5	5	7	8	11.8	20.4	
19-Oct-06	8	9	11	8	9	11	8	9	7	10	9	5	4	5	6	8	13	15	17	20	21	13	16	13	10.6	21.5	
20-Oct-06	10	12	10	10	10	8	6	3	2	5	15	26	23	23	24	20	19	15	10	6	6	6	6	6	11.8	25.6	
21-Oct-06	7	10	6	4	7	7	6	8	9	15	14	15	16	14	14	11	13	12	8	5	5	5	5	4	9.1	16.2	
22-Oct-06	3	6	6	6	6	6	5	3	4	5	6	7	8	9	10	9	8	6	7	6	6	5	5	3	6.1	9.7	
23-Oct-06	5	5	4	8	15	14	13	11	10	9	12	11	11	9	13	11	8	7	6	7	8	7	6	7	9.1	14.5	
24-Oct-06	5	4	5	5	4	6	13	9	9	8	18	28	26	25	26	22	18	16	14	15	13	13	9	13	13.6	27.5	
25-Oct-06	8	15	15	15	12	11	8	8	12	10	12	14	13	15	11	14	12	7	9	8	7	8	17	18	11.6	18.3	
26-Oct-06	19	17	18	19	21	23	12	13	25	26	26	27	23	20	23	20	20	18	16	13	16	11	6	5	18.2	27.3	
27-Oct-06	5	5	3	6	6	5	5	6	5	4	3	4	4	8	9	9	10	12	14	14	5	3	4	8	6.7	14.2	
28-Oct-06	6	3	3	3	3	4	6	4	3	5	4	5	8	8	7	6	9	13	9	10	6	7	8	11	6.4	12.6	
29-Oct-06	15	15	15	14	10	13	22	21	16	18	20	21	25	23	22	18	18	20	20	17	20	20	18	17	18.3	24.6	
30-Oct-06	19	17	12	10	12	11	11	13	13	14	15	13	14	14	15	14	14	10	12	10	11	13	13	13	13.0	18.6	
31-Oct-06	13	16	17	13	14	12	10	10	10	11	13	14	16	17	18	15	14	12	13	13	13	11	10	12	13.2	17.5	
1-hr Average	9.2	9.8	9.0	8.7	9.1	9.1	8.7	8.9	10.1	11.0	12.3	13.2	13.8	13.6	13.9	13.1	12.8	11.6	10.7	10.0	9.4	9.0	8.6	8.9			
Hourly Max	22.1	21.1	18.9	19.1	21.2	23.5	22.1	22.1	24.8	25.7	26.5	27.5	26.3	25.5	25.5	23.6	24.2	20.4	19.8	20.0	21.5	21.8	17.8	18.3			



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

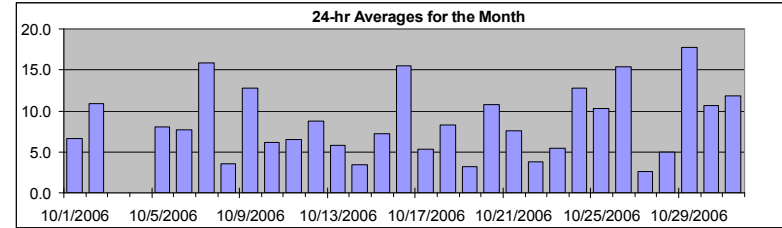
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	27.3	km/hr	24-Oct	11:00 12:00
Maximum 24-hr Value:	17.8	km/hr	29-Oct	



Calm Time:	2 hrs	0% calms	Operational Time:	718 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.8%				
Percentile	99	95	75	50	25	5	1	AverageV
	25.3	21.2	13.8	9.5	5.3	2.6	1.5	2.6 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-06	11	14	9	6	7	11	10	10	11	9	11	12	10	11	11	13	11	8	11	9	7	7	4	4		6.7	14.2	
2-Oct-06	5	6	6	4	9	11	6	6	11	12	13	14	15	13	14	14	16	17	14	11	13	13	12	12		10.8	17.2	
3-Oct-06	13	14	11	11	14	13	9	10	14	13	12	11	N	N	N	N	N	N	N	N	N	N	N	N	N		N	14.0
4-Oct-06	N	N	N	N	N	N	N	N	N	N	3	3	1	5	3	2	3	5	6	3	3	5	4	3		N	6.5	
5-Oct-06	2	3	3	3	4	2	2	1	4	9	24	26	24	23	20	18	13	8	4	5	5	6	6	4		8.1	26.1	
6-Oct-06	5	5	6	9	12	3	4	M	M	9	13	12	16	17	14	14	11	5	4	3	1	5	3	8		7.7	16.7	
7-Oct-06	13	13	13	14	16	15	20	22	23	25	22	20	21	21	21	21	21	19	14	10	10	8	8	8		15.8	24.9	
8-Oct-06	8	7	7	7	8	7	8	11	10	7	3	3	6	7	8	6	4	2	6	5	5	3	calm	5		3.5	10.7	
9-Oct-06	3	4	4	5	6	5	7	9	9	13	12	16	20	19	21	23	24	20	15	14	18	22	18	17		12.8	24.1	
10-Oct-06	22	21	19	16	14	8	2	8	11	8	12	16	15	13	13	12	16	13	14	13	13	15	11	8		6.1	22.0	
11-Oct-06	10	9	8	6	5	4	5	5	5	7	10	11	14	16	17	15	14	10	5	3	4	2	4	5		6.5	16.5	
12-Oct-06	4	4	4	5	3	4	3	4	6	7	11	13	10	10	11	12	13	15	14	12	10	9	11	12		8.7	15.5	
13-Oct-06	10	9	4	3	2	3	2	2	4	5	6	4	5	5	6	7	8	8	11	13	10	6	5	3		5.8	13.0	
14-Oct-06	2	3	3	1	2	3	2	5	5	3	4	5	6	4	10	9	9	6	8	4	4	calm	2		3.4	10.4		
15-Oct-06	7	7	8	3	2	7	3	2	6	8	6	5	10	7	10	9	12	15	17	14	13	10	10	14		7.2	16.9	
16-Oct-06	13	16	17	16	15	17	19	21	19	20	16	17	18	18	17	19	16	16	12	12	9	12	9	5		15.5	21.2	
17-Oct-06	5	5	4	5	4	5	5	5	6	6	7	7	7	7	7	6	7	5	5	5	4	6	10	10		5.3	10.4	
18-Oct-06	13	15	15	15	12	16	20	11	17	20	15	13	13	12	11	8	5	4	5	9	3	4	6	8		8.3	20.2	
19-Oct-06	8	9	11	8	9	11	8	8	7	10	8	3	3	1	5	7	13	15	16	20	21	13	16	12		3.1	21.3	
20-Oct-06	10	12	10	10	10	8	6	3	1	4	15	26	23	23	23	20	18	15	9	6	6	6	6	6		10.8	25.5	
21-Oct-06	7	9	6	4	7	7	6	7	9	14	14	15	16	13	14	11	13	12	8	5	5	5	4	3		7.5	16.0	
22-Oct-06	2	5	5	6	6	6	5	2	3	4	5	6	7	9	9	9	8	6	7	6	6	5	4	2		3.8	9.0	
23-Oct-06	4	4	3	8	14	13	13	10	10	8	12	11	11	9	12	11	8	7	6	7	8	7	5	6		5.4	14.3	
24-Oct-06	5	3	5	4	3	5	12	9	8	7	18	27	26	25	25	22	18	16	14	15	13	13	8	12		12.8	27.3	
25-Oct-06	8	14	14	15	11	11	7	8	11	9	12	13	12	14	10	14	12	7	8	8	6	8	17	18		10.3	18.3	
26-Oct-06	19	17	17	19	21	23	12	12	25	25	26	27	22	20	22	20	20	18	16	12	14	10	4	4		15.4	27.0	
27-Oct-06	5	5	1	6	6	5	5	6	5	4	2	3	1	7	8	9	10	12	14	13	2	2	4	8		2.7	14.1	
28-Oct-06	6	3	2	3	2	4	6	4	3	4	3	4	7	8	6	6	9	12	9	10	4	7	8	11		4.9	12.5	
29-Oct-06	15	15	15	14	10	13	22	21	16	18	20	21	24	23	22	18	18	20	20	17	20	20	18	17		17.8	24.4	
30-Oct-06	19	17	12	9	11	11	11	13	13	14	15	13	14	14	15	14	14	10	11	10	10	13	13	13		10.7	18.6	
31-Oct-06	13	16	17	13	14	12	10	10	10	10	13	14	16	16	17	15	14	12	13	13	13	11	10	12		11.8	17.3	
1-hr Vector	1.7	2.2	2.3	2.4	3.5	3.3	2.6	3.2	2.8	2.9	3.6	4.0	4.5	4.1	4.5	4.1	3.7	3.5	2.9	1.5	1.9	1.8	1.7	1.6				
Hourly Max	22.0	21.0	18.7	19.1	21.0	23.3	22.0	21.9	24.5	25.5	25.9	27.3	25.9	25.2	25.3	23.3	24.1	20.3	19.8	19.7	21.3	21.6	17.8	18.3				



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.8%				
Percentile	99	95	75	50	25	5	1	Average
	359.5	352.1	272.0	217.1	79.4	12.9	3.6	306 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-06	247	268	265	327	319	347	354	359	16	31	348	359	10	21	6	25	28	41	38	59	85	84	82	71	7	N	
2-Oct-06	78	22	100	54	18	13	21	24	51	63	87	74	61	62	55	56	37	39	44	35	30	24	42	56	48	NE	
3-Oct-06	76	77	75	82	75	81	68	42	44	43	59	62	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
4-Oct-06	N	N	N	N	N	N	N	N	N	N	359	239	228	118	113	106	61	24	8	90	172	239	251	344	N	-	
5-Oct-06	97	67	102	109	134	164	161	343	196	192	204	210	213	216	228	239	246	265	225	207	167	205	206	177	210	SSW	
6-Oct-06	205	209	230	223	239	296	13	M	M	233	240	251	255	247	252	243	277	291	272	335	270	249	265	300	253	WSW	
7-Oct-06	327	341	342	336	334	336	348	337	337	343	335	329	328	327	324	320	325	332	317	300	288	261	259	266	327	NNW	
8-Oct-06	257	228	210	211	216	216	222	233	227	206	204	41	176	208	206	201	187	34	51	42	332	24	357	357	221	SW	
9-Oct-06	70	115	137	157	184	169	191	200	206	213	214	217	227	216	212	218	217	210	222	228	215	208	217	205	210	SSW	
10-Oct-06	209	219	234	241	244	247	247	221	233	254	273	321	333	342	3	352	8	6	10	15	10	17	4	359	306	NW	
11-Oct-06	360	32	23	31	49	35	10	359	330	316	324	319	348	349	356	353	5	11	360	14	264	178	195	218	354	N	
12-Oct-06	135	122	100	114	122	61	71	75	75	83	90	93	97	91	76	78	71	75	87	96	86	59	84	105	87	E	
13-Oct-06	104	91	115	48	133	102	63	80	106	74	59	127	62	60	49	50	39	48	85	103	108	95	116	102	83	E	
14-Oct-06	112	6	59	63	248	213	136	124	122	134	147	148	124	84	161	180	179	181	173	181	226	187	329	25	156	SSE	
15-Oct-06	341	356	353	82	31	354	23	115	193	233	329	46	16	360	360	11	360	1	353	357	359	352	360	13	0	N	
16-Oct-06	18	14	18	24	18	18	24	27	28	26	29	23	22	15	18	16	19	19	14	18	12	16	13	358	20	NNE	
17-Oct-06	345	338	295	245	274	254	233	245	251	264	256	234	244	267	234	276	258	264	226	211	250	224	205	204	247	WSW	
18-Oct-06	205	214	221	220	221	221	217	233	237	234	253	279	285	313	328	339	352	300	2	360	24	262	248	242	250	WSW	
19-Oct-06	237	223	234	227	235	241	249	234	228	221	214	197	120	152	81	57	81	98	86	91	93	64	55	52	126	SE	
20-Oct-06	357	2	5	359	349	350	350	9	68	305	324	341	333	334	341	336	352	351	340	321	308	284	256	254	339	NNW	
21-Oct-06	258	275	290	345	277	281	285	307	324	348	349	350	356	7	3	358	352	347	355	315	323	324	266	239	332	NNW	
22-Oct-06	165	225	231	225	239	241	212	257	115	136	130	135	124	151	141	158	160	133	115	122	93	77	47	5	152	SSE	
23-Oct-06	209	174	248	235	233	245	254	260	301	300	327	329	6	7	340	317	306	290	293	223	213	190	192	187	276	W	
24-Oct-06	147	160	163	218	188	215	207	235	218	192	198	209	209	209	218	219	213	220	238	243	252	258	241	217	217	SW	
25-Oct-06	212	237	238	229	242	247	274	295	289	302	332	279	266	238	252	241	231	208	228	223	245	272	236	231	250	WSW	
26-Oct-06	239	241	234	238	227	224	251	235	219	227	231	247	250	254	254	244	224	238	248	259	359	34	28	337	242	WSW	
27-Oct-06	348	346	163	235	247	251	268	261	233	225	201	115	75	67	87	93	78	84	101	102	81	41	104	135	103	ESE	
28-Oct-06	137	113	73	125	90	7	357	3	15	20	38	35	24	31	51	51	51	81	72	86	50	5	349	348	43	NE	
29-Oct-06	356	14	25	31	13	16	26	31	17	23	33	21	15	10	5	8	10	358	1	2	352	357	356	344	11	N	
30-Oct-06	344	345	327	299	289	280	293	293	304	307	310	300	285	277	276	272	265	255	256	250	219	228	231	220	284	WNW	
31-Oct-06	229	235	236	229	230	235	233	245	252	252	274	283	285	295	300	311	291	289	279	279	281	276	274	292	267	W	
Hourly Avg	271	286	268	257	260	278	299	304	291	291	299	303	311	314	319	316	334	355	360	14	344	325	291	279			



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

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	96.8%			
Percentile	99	95	75	50	25	5	1
	59.3	44.6	17.4	10.0	6.9	4.6	3.5

Status Flag Characters

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

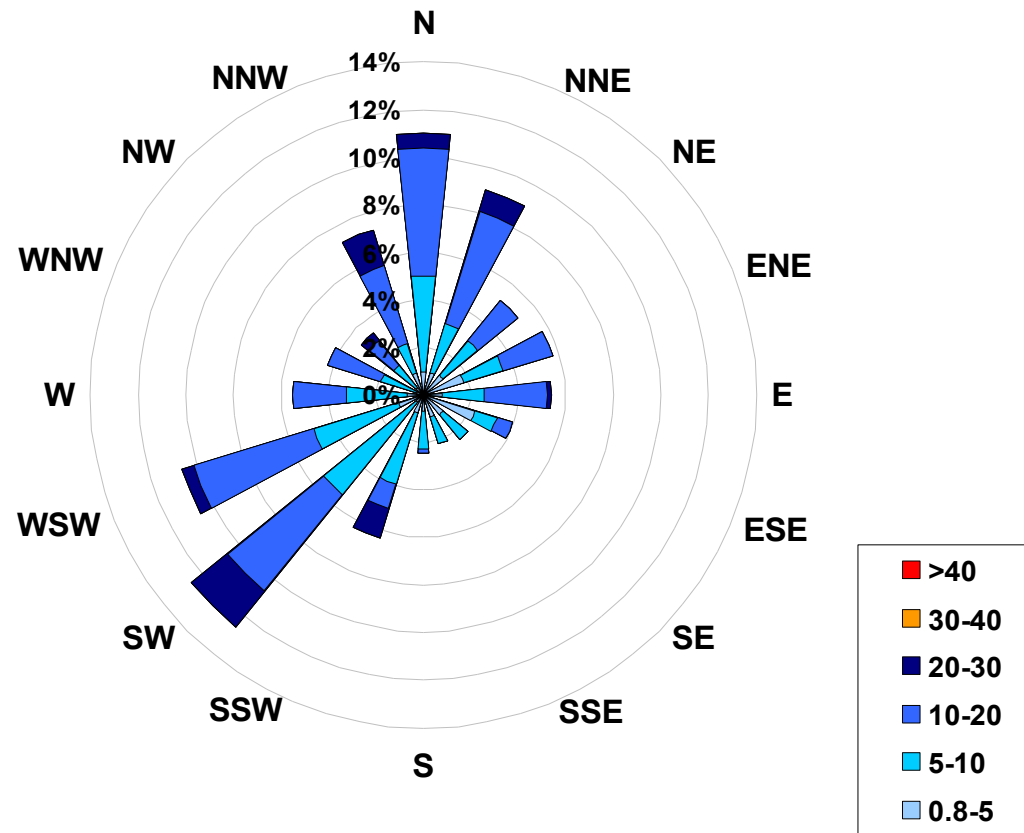
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Oct-06	48	6	22	38	11	4	4	6	14	15	12	11	12	17	13	8	8	8	7	10	11	26	23	15	47.9
2-Oct-06	16	20	18	34	10	7	8	12	10	11	12	17	14	14	16	12	8	6	4	5	7	8	6	7	34.1
3-Oct-06	7	7	9	8	7	6	9	7	6	6	11	20	N	N	N	N	N	N	N	N	N	N	N	N	19.6
4-Oct-06	N	N	N	N	N	N	N	N	N	N	55	61	57	34	59	67	34	10	4	29	35	25	33	43	67.4
5-Oct-06	20	21	22	19	17	55	34	54	55	21	10	9	10	10	12	8	9	9	29	13	29	20	15	34	55.0
6-Oct-06	16	27	15	13	9	18	17	M	M	19	11	12	12	9	14	13	13	32	22	22	45	17	54	12	53.7
7-Oct-06	8	6	7	8	7	5	5	5	6	5	6	8	8	8	9	10	9	7	8	8	8	10	8	8	9.9
8-Oct-06	9	9	23	9	12	6	5	5	9	10	66	48	33	33	15	31	33	50	8	10	43	10	61	8	66.1
9-Oct-06	18	25	15	9	16	10	14	8	11	9	13	14	10	13	10	9	6	5	7	6	5	6	6	6	24.9
10-Oct-06	5	6	7	7	7	14	50	10	5	11	9	10	6	8	5	6	6	4	8	6	6	7	5	6	49.6
11-Oct-06	7	11	7	9	10	9	6	10	24	15	14	16	11	13	10	11	11	6	9	17	40	46	35	10	46.1
12-Oct-06	18	13	13	7	25	15	19	14	13	15	15	15	17	24	16	13	8	6	7	6	6	8	8	6	25.4
13-Oct-06	7	6	11	7	38	17	27	41	25	23	17	46	38	32	39	17	9	6	6	7	9	11	13	20	46.3
14-Oct-06	31	27	21	39	59	50	39	10	17	17	40	48	33	23	46	12	13	9	12	13	55	51	52	30	58.6
15-Oct-06	16	8	9	15	21	7	29	44	14	26	48	17	7	8	7	8	10	3	4	4	4	7	5	5	47.5
16-Oct-06	6	5	5	7	6	6	5	7	7	6	8	8	8	8	7	7	8	6	6	9	7	6	6	8	8.9
17-Oct-06	6	8	21	18	22	21	12	16	16	17	13	20	20	19	19	22	14	19	24	11	31	9	8	6	30.9
18-Oct-06	6	5	6	7	10	12	6	20	7	6	8	11	13	12	10	13	28	26	14	6	44	18	20	7	43.5
19-Oct-06	7	6	4	7	5	6	10	12	11	13	35	66	56	72	23	11	7	6	9	8	8	16	7	12	71.7
20-Oct-06	8	3	3	5	6	8	10	33	43	39	9	5	5	6	5	6	6	5	8	11	13	15	13	11	43.3
21-Oct-06	11	7	16	13	11	9	18	11	11	5	7	8	7	10	9	7	8	5	11	14	14	12	14	48	47.9
22-Oct-06	46	38	35	26	22	8	9	50	35	34	25	27	26	22	21	14	8	9	6	6	5	12	9	18	50.0
23-Oct-06	26	21	50	19	9	12	9	13	13	14	10	13	12	16	13	11	10	6	10	12	5	18	19	14	50.4
24-Oct-06	23	33	24	19	34	41	5	25	10	19	8	7	9	8	7	6	7	7	10	10	8	8	22	8	40.7
25-Oct-06	16	11	11	8	15	11	12	15	9	9	11	10	17	13	17	11	7	6	14	12	28	18	10	5	27.9
26-Oct-06	3	4	5	4	4	5	18	17	8	6	7	7	7	8	7	6	5	5	7	11	10	19	45	41	45.4
27-Oct-06	23	31	64	11	15	14	25	18	28	33	59	36	52	18	18	16	6	7	6	8	25	34	9	6	64.1
28-Oct-06	12	33	25	36	32	37	7	9	9	21	29	26	13	10	13	12	9	6	11	11	40	6	6	6	39.8
29-Oct-06	5	4	5	6	12	6	6	6	6	6	7	5	5	3	5	5	4	4	4	5	4	5	4	5	12.1
30-Oct-06	5	5	7	9	8	7	8	8	9	8	9	12	9	9	8	8	6	8	7	8	7	4	4	5	11.7
31-Oct-06	4	4	3	4	4	2	5	11	12	11	10	11	8	10	10	7	8	8	7	6	7	8	9	7	12.3

Hourly Max	48	38	64	39	59	55	50	54	55	39	66	66	57	72	59	67	34	50	29	29	55	51	61	48
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**1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site
for October 2006**



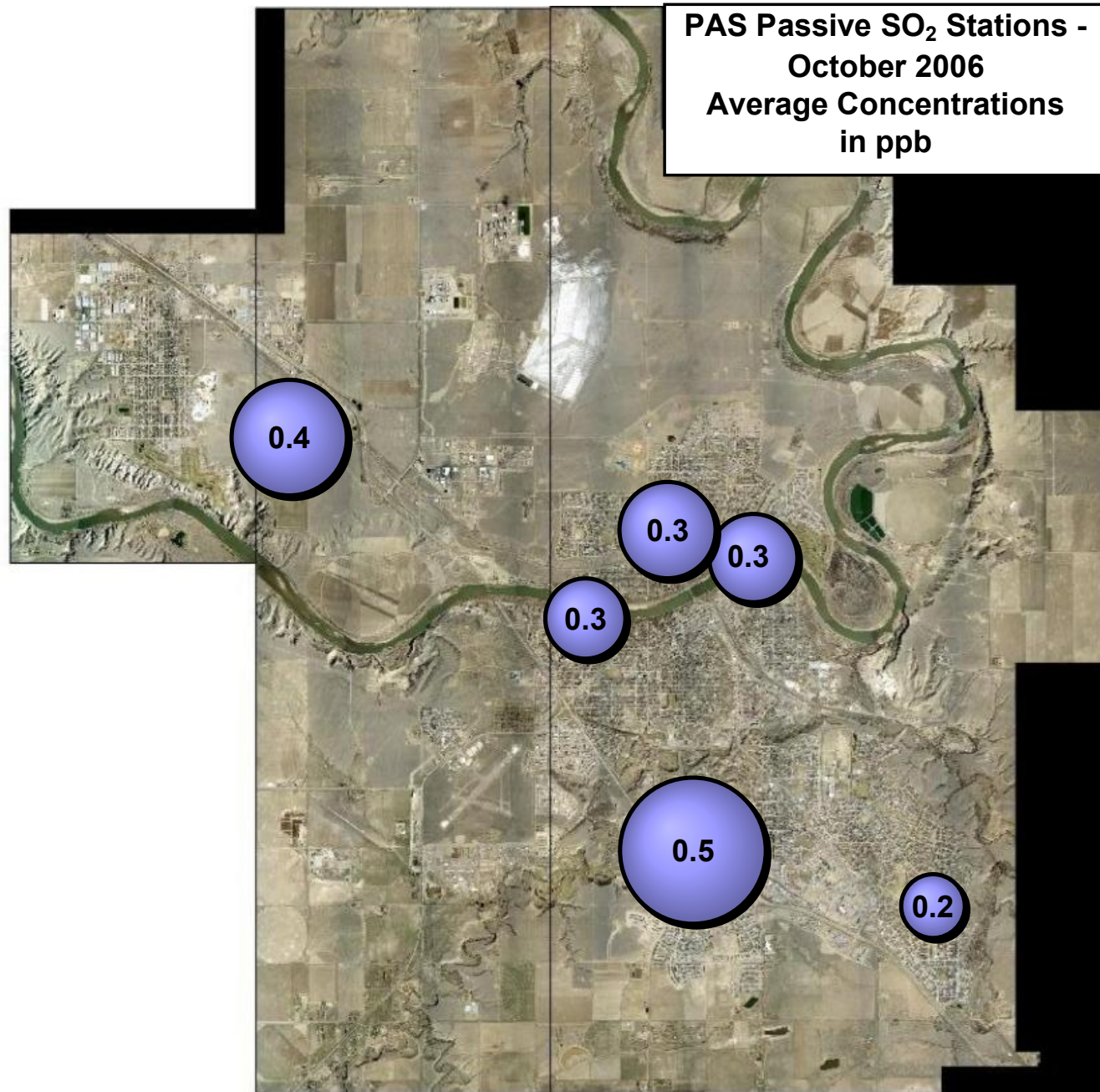
Calms: 0%

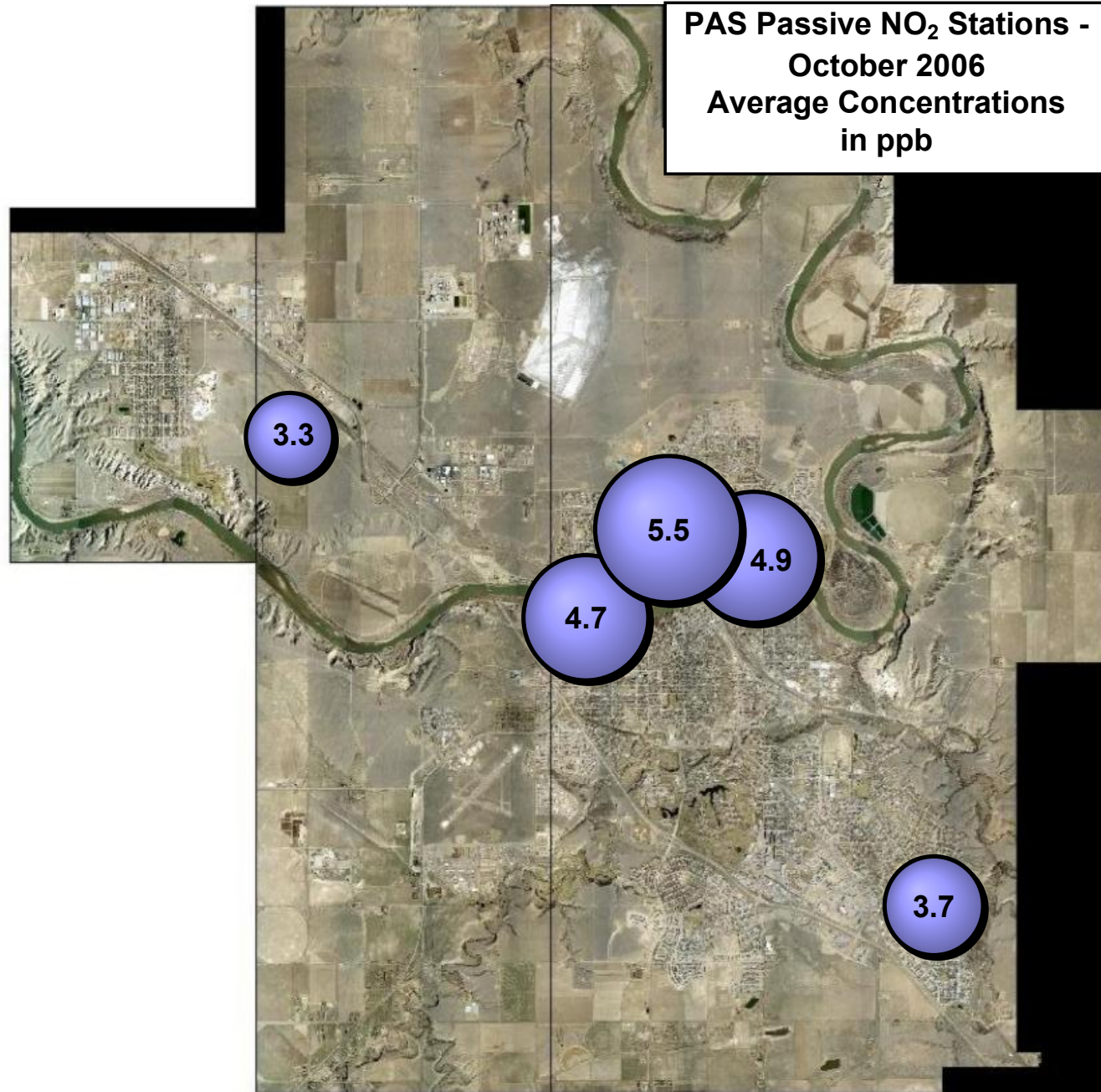
Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	112
5	to	10	262
10	to	20	290
20	to	30	56
30	to	40	0
	>	40	0
Total Non-Zero Values			720

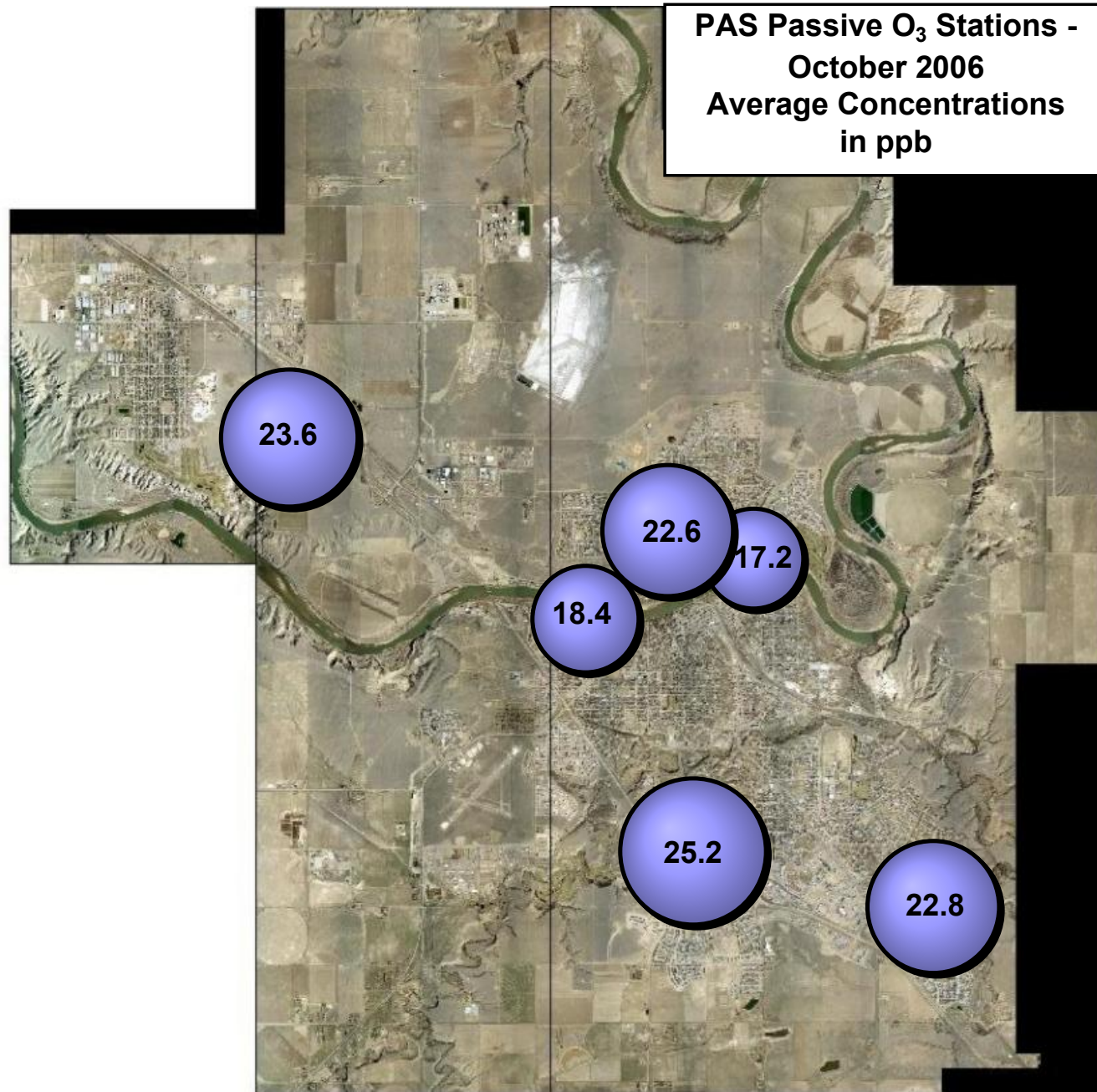


Passive Monitoring – October 2006

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation
Duplicates							
1a	Hospital	0.3	19.0	4.4			
1b		0.3	17.8	5.0			
1	Hospital	0.3	18.4	4.7	521648	5542721	698
2	Ball Park	0.3	17.2	4.9	524019	5543686	660
3	Monitoring Station	0.3	22.6	5.5	522812	5544133	714
4	Redcliff	0.4	23.6	3.3	517448	5545608	725
5	Southridge	0.5	25.2	N/A	523172	5539016	721
6	Christian School Park	0.2	22.8	3.7	526577	5538133	709
Stats:							
	Mean	0.4	21.6	4.4			
	Standard Deviation	0.1	3.1	0.9			
	Minimum	0.2			6	Christian School Park	
	Maximum	0.5			5	Southridge	
	Minimum		17.2		2	Ball Park	
	Maximum		25.2		5	Southridge	
	Minimum			3.3	4	Redcliff	
	Maximum			5.5	3	Monitoring Station	







Palliser Airshed Society

October 2006 - Calibration Reports

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

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	October 11, 2006	Previous Calibration	September 21, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input checked="" type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	16:20	End Time (MST)	19:00
Barometric Pressure	27.2 inches Hg	Station Temperature	21.9 Deg C
Calibrator	Envionics 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
	<u>Before</u>		<u>After</u>
Calculated slope	1.021142	Calculated slope	1.022824
Calculated intercept	0.857092	Calculated intercept	-5.097908
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-7.6	ppb	-7.6	ppb
Slope	1.113		1.113	
Lamp measure	4792.1	mV	4732.6	mV
Lamp Reference	4793.1	mV	4732.7	mV
Pressure	25.8	inches Hg	26.0	inches Hg
Sample Flow	666	ccm	669	ccm
Sample temp	37.8	Deg C	36.2	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.0	-1.0	N/A
4990	300.0	297.9	291.9	1.0205
4990	200.0	202.0	203.5	0.9924
4990	100.0	100.8	112.7	0.8941
4990	0.0	0.0	-1.0	0.0000
4990	300.0	297.9	291.9	1.0205
Average Correction Factor				0.9690

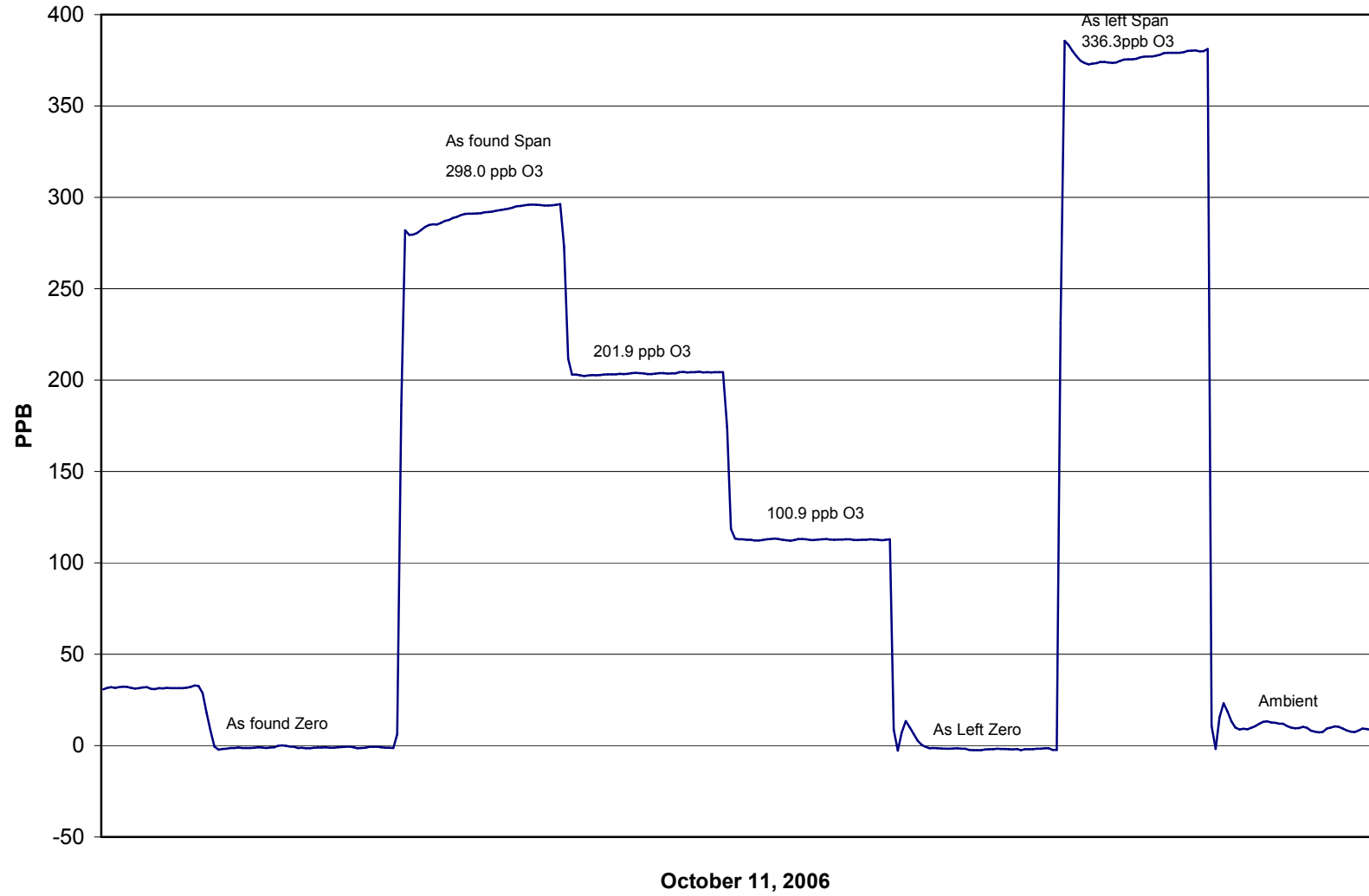
Calculated value of As Found Response: 299.9 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	-1.4	ppb	-7.1	ppb
Auto span	344.4	ppb	380.0	ppb

Notes: The Analyzer reads 0 but the AP1000 software is reading around -2 on the as found zero.

Calibration Performed By: Travis Mehrer

O3 Calibration



Calibration Report

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



Station Information

Calibration Date October 11, 2006 Previous Calibration September 22, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 9:00 End Time (MST) 13:28
 Barometric Pressure 27.2 inches Hg Station Temperature 20.8 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	1.008477	1.008640	1.006729
	Data Offset	0.072196	-0.240292	2.482774
After	Data Slope	0.992902	0.991380	0.993163
	Data Offset	-2.230585	-0.980927	0.667798
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	1.243		1.293	
NOx coefficient	1.266		1.314	
Chamber Temp	49.9	Deg C	50.0	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	40.6		40.3	
Perm Temp	40.4	Deg C	40.4	Deg C
Pressure	5.5	inches Hg	5.5	inches Hg
Sample Flow	443.0	ccm	451.0	ccm

Notes: Performed a Span Adjustment...

Calibration Report

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



Station Information

Calibration Date: October 11, 2006 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	0.7	-1.4	2.0	N/A	N/A
1	4990	39.86	395.4	395.4	0.0	399.6	397.0	3.0	0.9897	0.9960
2	4990	19.91	198.3	198.3	0.0	201.6	199.6	1.7	0.9836	0.9934
3	4990	9.96	99.4	99.4	0.0	101.2	99.9	1.0	0.9815	0.9943
AFZ	4990	0.00	0.0	0.0	0.0	0.7	-1.4	2.0	0.0000	0.0000
AFS	4990	39.85	395.3	395.3	0.0	381.8	380.3	1.6	1.0355	1.0396
Average Correction Factor									0.9849	0.9946

As Found Concentrations NO_x= 380.8 NO= 384.2 As Found Percent Change NO_x= -3.7% NO= -2.8%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	393.2	392.3	0.9	397.6	394.4	2.0	N/A	N/A	N/A	N/A
300	395.9	296.3	99.6	400.3	297.7	102.8	0.9889	0.9954	0.9684	103.3%
200	397.8	198.1	199.6	402.2	198.8	203.5	0.9889	0.9965	0.9808	102.0%
100	396.2	101.8	294.4	400.7	101.9	298.5	0.9889	0.9997	0.9863	101.4%
Average Correction Factor							0.9889	0.9972	0.9785	102.2%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	2.1	-0.7	2.1	ppb	-1.4	-4.3	-0.7	ppb
Auto span	413.7	404.2	8.6	ppb	389.0	383.1	3.0	ppb

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

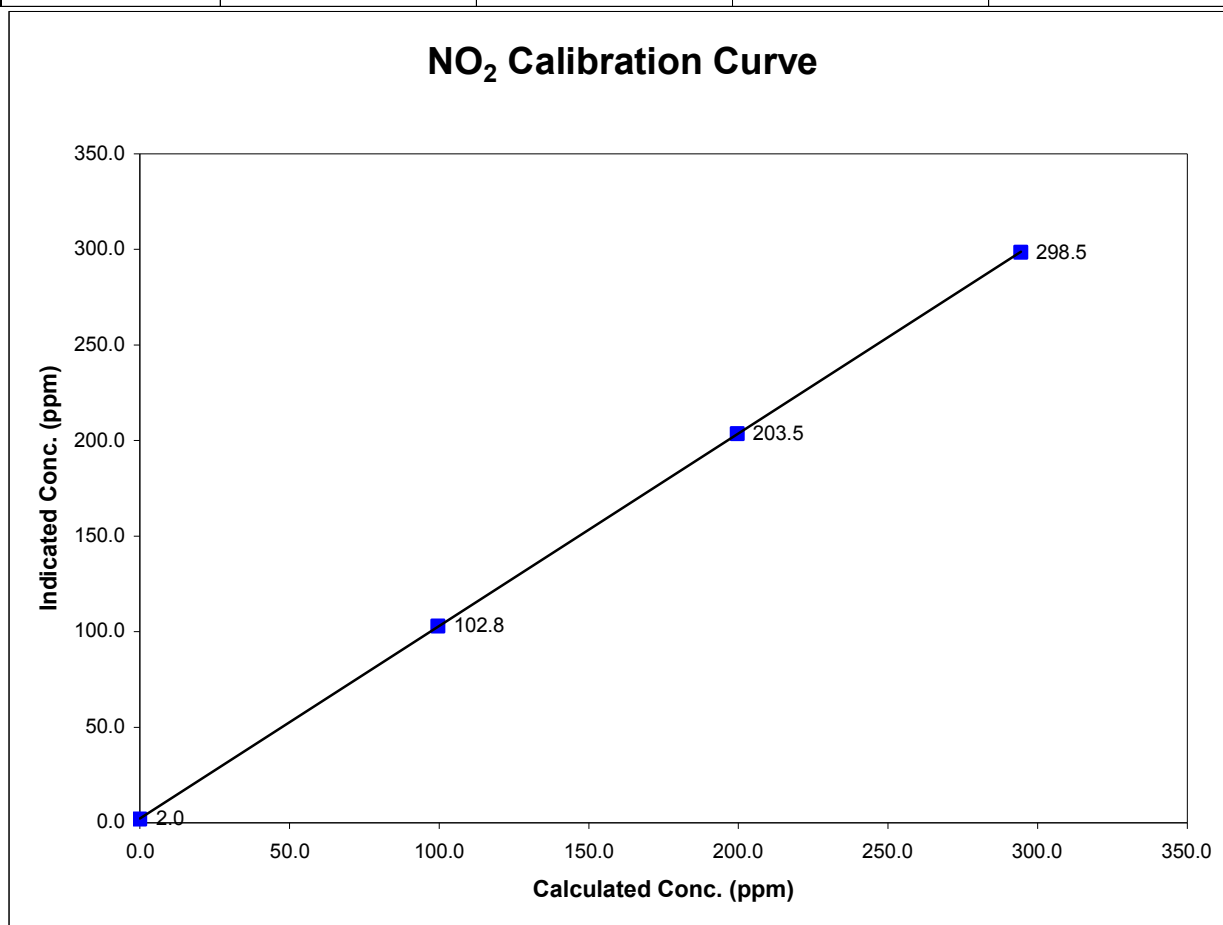


Station Information

Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:00	End Time (MST)	13:28
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	2.0	0.0000		
99.6	102.8	0.9684	Correlation Coefficient	0.999994
199.6	203.5	0.9808		
294.4	298.5	0.9863	Slope	0.992902
			Intercept	-2.230585



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed

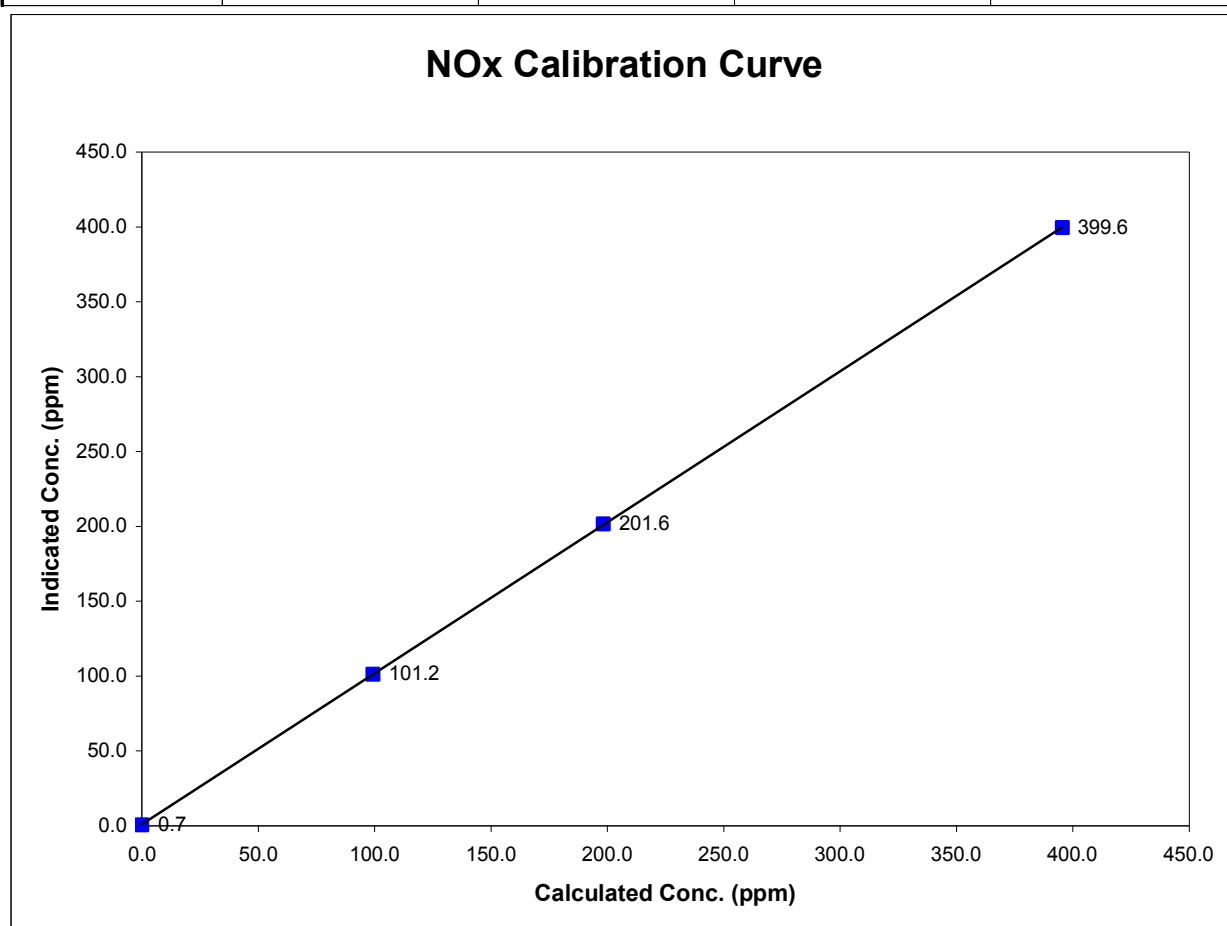


Station Information

Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:00	End Time (MST)	13:28
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.7	0.0000		
395.4	399.6	0.9897	Correlation Coefficient	0.999994
198.3	201.6	0.9836		
99.4	101.2	0.9815	Slope	0.991380
			Intercept	-0.980927



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

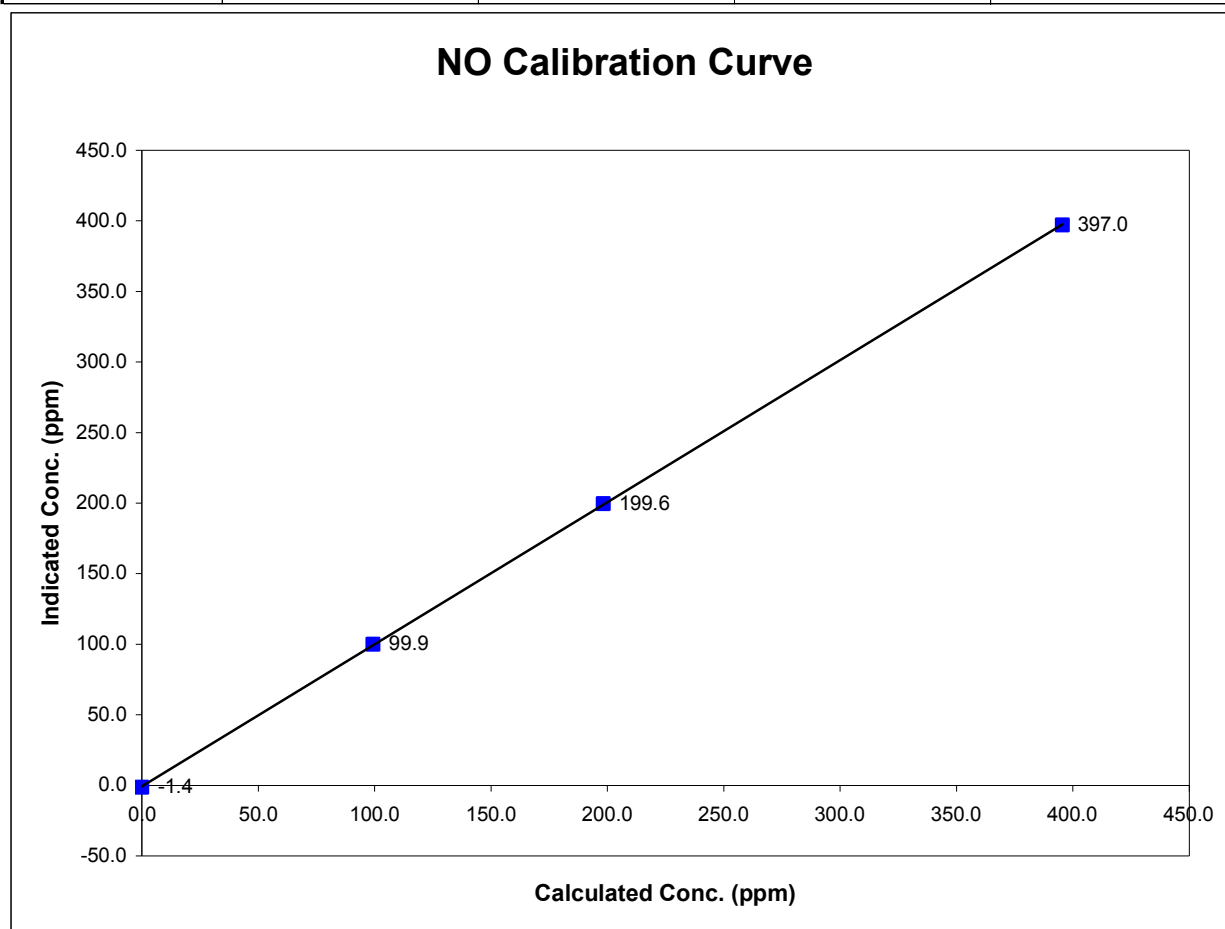


Station Information

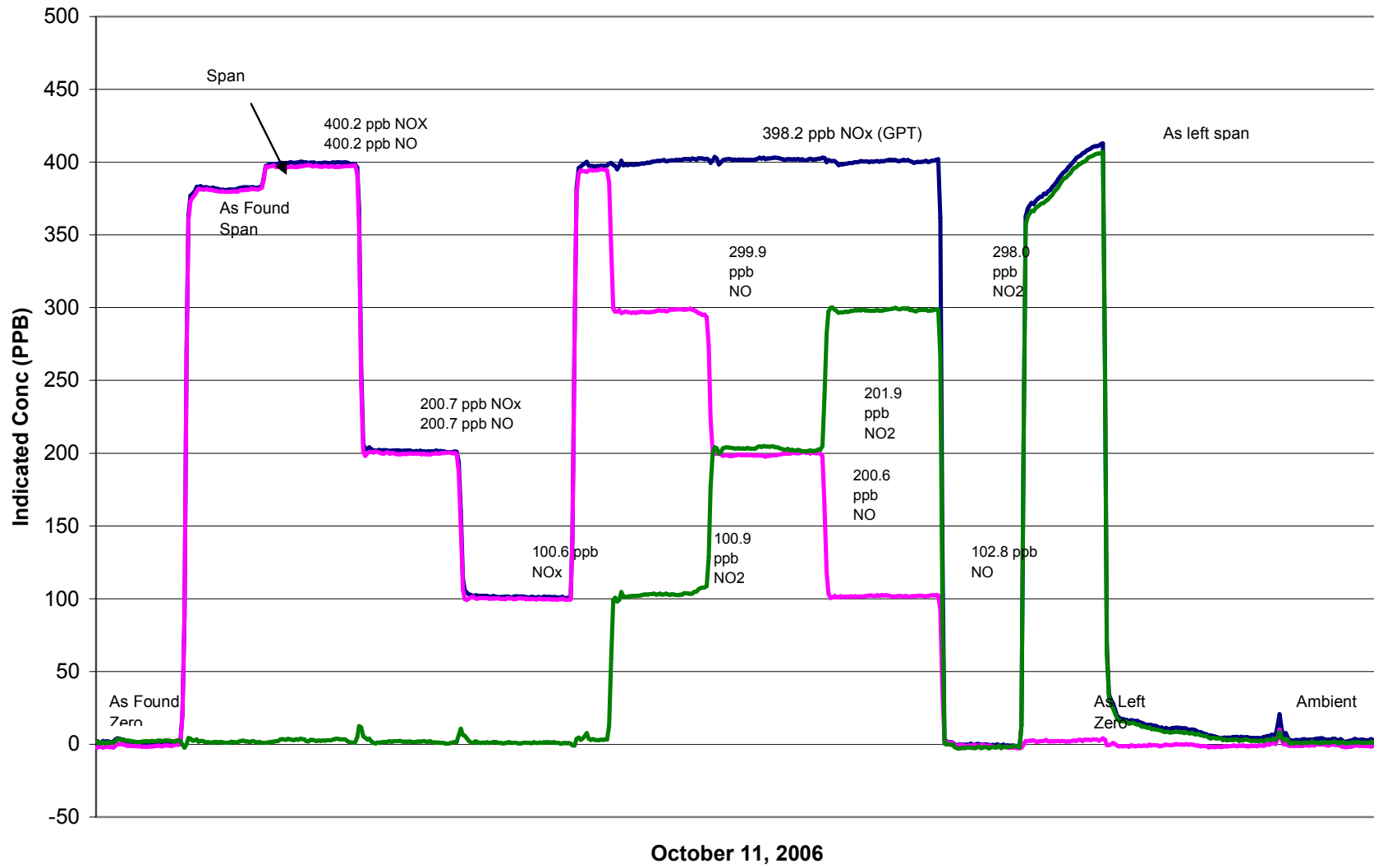
Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:00	End Time (MST)	13:28
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.4	N/A		
395.4	397.0	0.9960	Correlation Coefficient	0.999983
198.3	199.6	0.9934		
99.4	99.9	0.9943	Slope	0.993163
			Intercept	0.667798



NOx Calibration



Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:30	End Time (MST)	15:50
Barometric Pressure	27.2 inches Hg	Station Temperature	20.8 Deg C
Calibrator	Envionics 6100	Serial Number	3747
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.000829	Calculated slope	0.994708
Calculated intercept	0.103289	Calculated intercept	-0.072260
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.75	PSI
THC span counts	12605	raw	12605	raw
THC zero counts	1370	raw	1370	raw

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	0.12	N/A
4991	79.77	24.03	24.29	0.9897
4991	39.84	12.10	12.13	0.9971
4991	9.96	3.04	3.14	0.9697
zero	0.00	0.00	0.07	As Found Zero
4991	79.77	24.03	24.29	As Found Span
Average Correction Factor				0.9855

Calculated value of As Found Response: 24.335 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.05	ppm
Auto span	21.18	ppm	21.12	ppm

Notes: _____

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

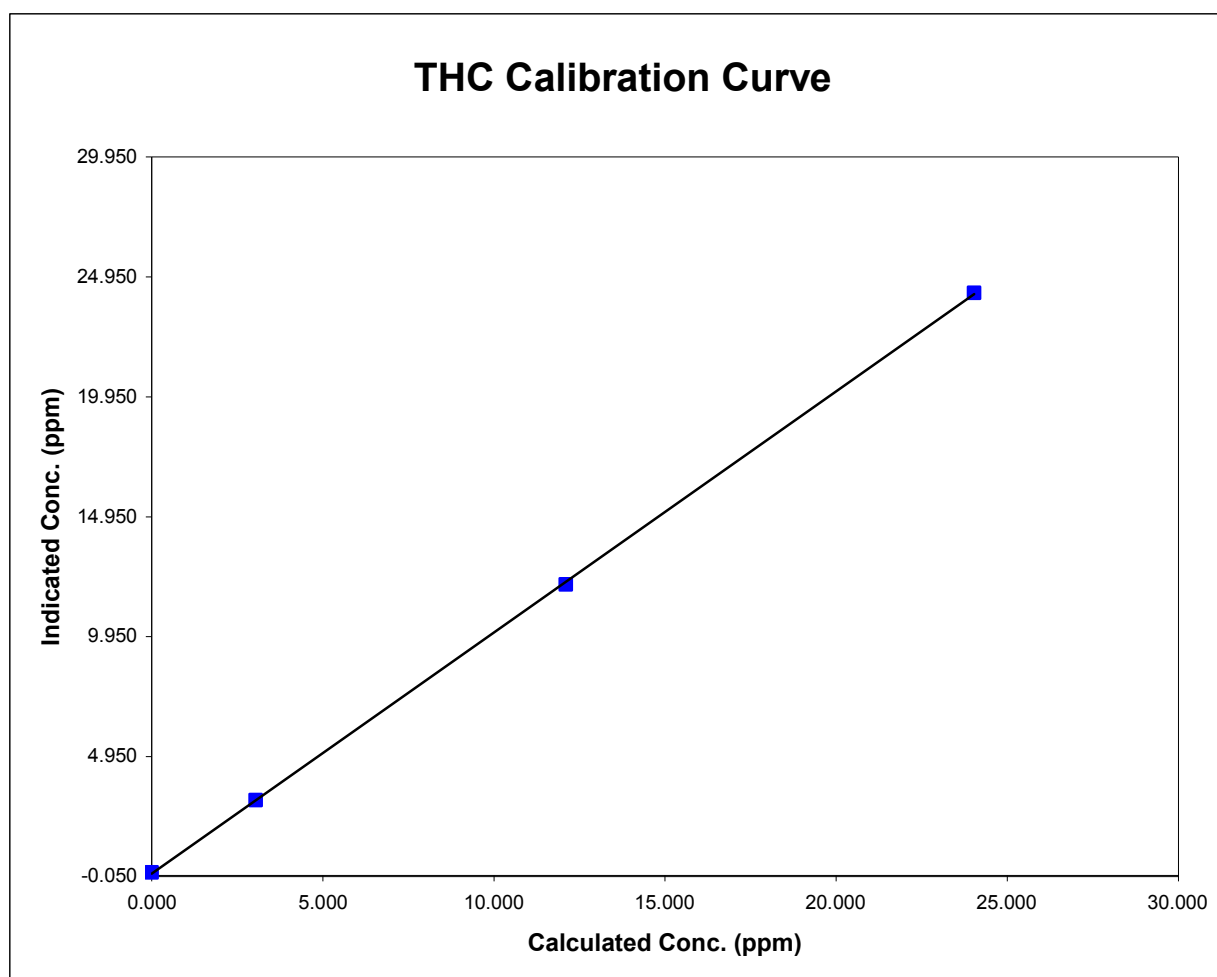


Station Information

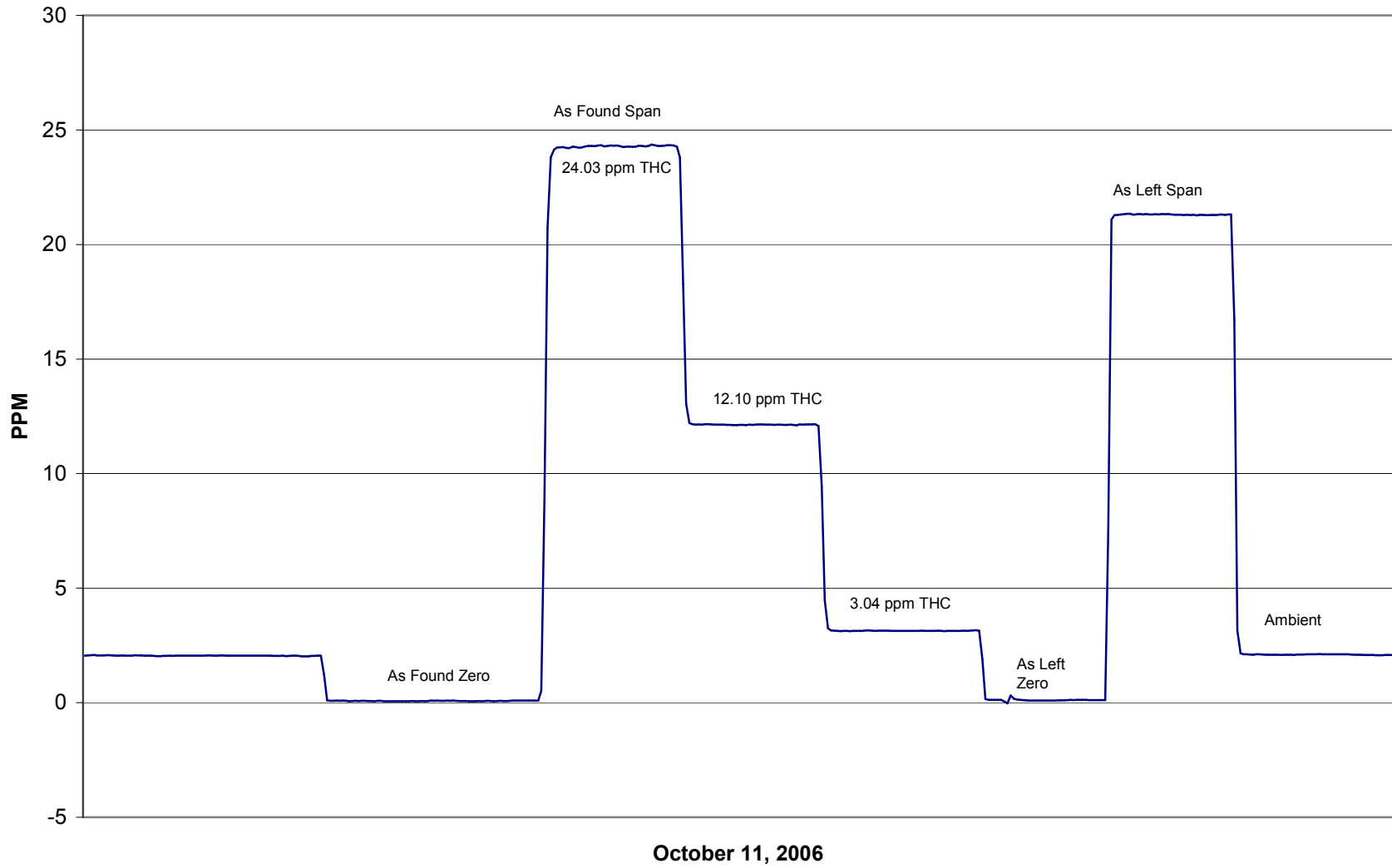
Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:30	End Time (MST)	15:50
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.119	N/A		
24.035	24.285	0.9897	Correlation Coefficient	0.999957
12.098	12.133	0.9971		
3.042	3.137	0.9697	Slope	0.994708
			Intercept	-0.072260



THC Calibration



Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	11:27	End Time (MST)	14:37
Barometric Pressure	27.60 in Hg	Station Temperature	22.1 Deg C
Calibrator	Envionics 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
	<u>Before</u>		<u>After</u>
Calculated slope	1.001980	Calculated slope	0.998371
Calculated intercept	0.014782	Calculated intercept	-0.232401
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.064		1.064	
CO bkg setting	10.626		10.633	
Lamp ratio	1.1473		1.1469	
Lamp intensity	199743	Hz	200116	Hz
Sample Flow	1.007	LPM	1.005	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	0.29	N/A
4991	49.84	29.64	29.95	0.9896
4991	19.91	11.91	12.09	0.9847
4991	9.95	5.97	6.19	0.9640
4991	0.00	0.00	0.20	0.0000
4991	49.84	29.64	29.95	0.9896
Average Correction Factor				0.9794

Calculated value of As Found Response: 29.822 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.06	ppm
Auto span	18.09	ppm	19.85	ppm

Notes: Adjusted Auto span gas flow. There is 750 PSI left in the span cylinder.

Calibration Performed By: LeninF, Travis Mehrer

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

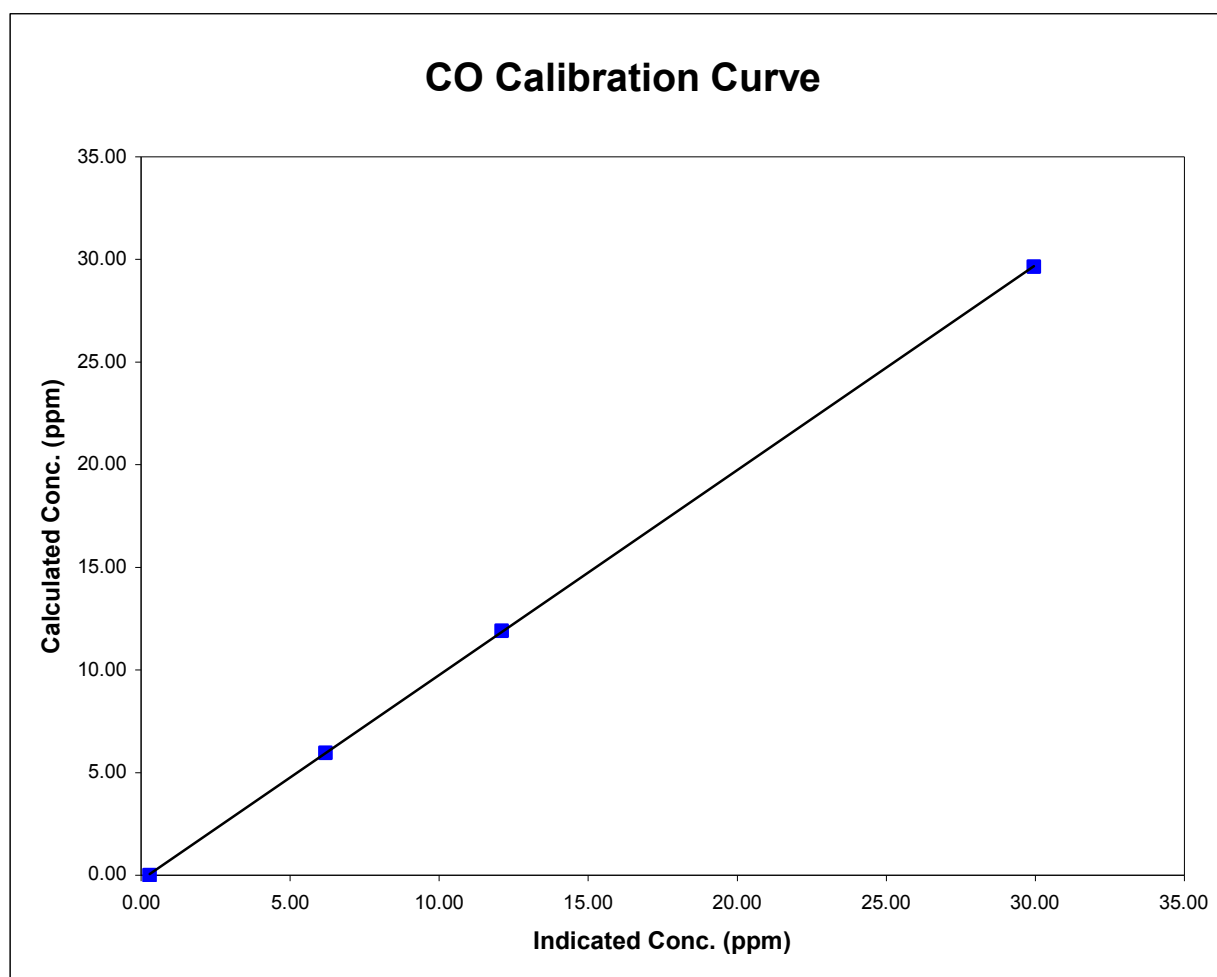


Station Information

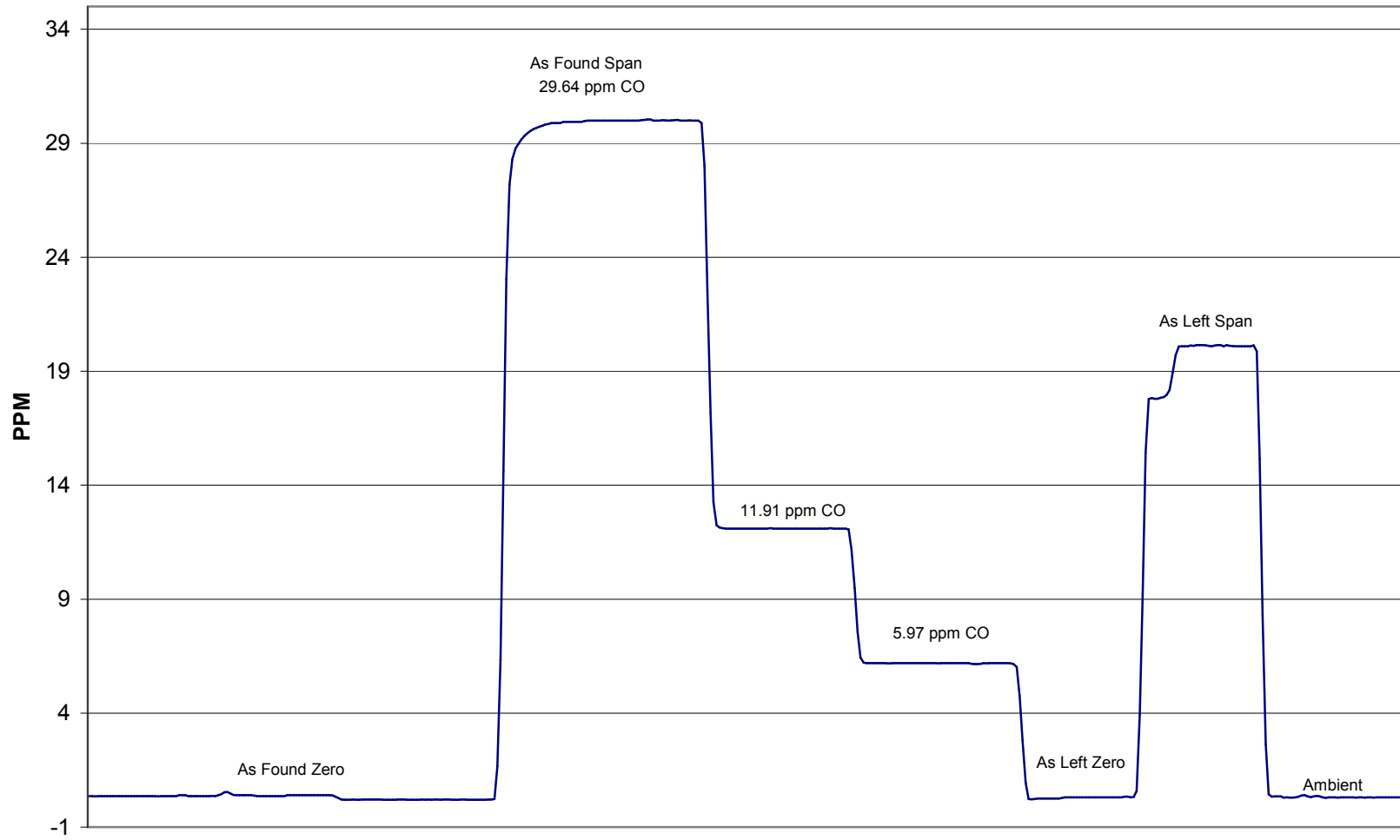
Calibration Date	October 11, 2006	Previous Calibration	September 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:27	End Time (MST)	14:37
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.29	N/A		
29.64	29.95	0.9896	Correlation Coefficient	0.999982
11.91	12.09	0.9847		
5.97	6.19	0.9640	Slope	0.998371
			Intercept	-0.232401



CO Calibration



October 11, 2006

Calibration Report

Parameter PM2.5
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	October 12, 2006	Previous Calibration	September 21, 2006
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	8:00	End Time (MST)	8:45
Barometric Pressure	0.907 ATM	Station Temperature	21.9 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	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32%	%	18%	%
Ko Factor	NA		NA	
Temperature	12.1	Deg C	12.1	Deg C
Pressure	0.905	ATM	0.905	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	-0.01	0.01	-0.01
flow recovery - main	45 - 60 Seconds	20.0	45 - 60 Seconds	20.0
flow recovery - aux	46 - 60 Seconds	25.0	46 - 60 Seconds	25.0
Temperature	measured	-0.8	+/- 1.0 Deg C	-0.8
Pressure	measured	0.919	+/- 1.5% ΔATM	0.919
Total Flow	16.67 SLPM	17.16		17.16
Auxiliary flow	13.67 SLPM	14.19	+/- 1.0 SLPM	14.19
Main flow	3.0 SLPM	3.110	+/- 0.2 SLPM	3.110
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.02	<0.15 SLPM	-0.02
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: No adjustments were necessary

Calibration Performed By: Lenin Flores, Travis Mehrer