



Palliser Airshed Society

Ambient Air Monitoring Network Summary

September 2006

Prepared By:



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October 27, 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 – September 2006

Enclosed is the PAS Ambient Monitoring Report for the month of **September 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 September. In addition there were no significant events leading to emergency response throughout the month of September.

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

- Monthly average concentrations of NO₂ was 8.1 ppb
- Monthly average concentrations for O₃ was 23.4 ppb
- Monthly average concentrations for CO was 0.15 ppm
- Monthly average concentrations for THC was 2.03 ppm
- Monthly average concentrations for PM_{2.5} was 4.2 µg/m³

The Air Quality Index (AQI) recorded 590 hours of Good readings and 24 hours of Fair readings for the month of September.

Passive Monitoring – Six Sites throughout the PAS zone:

The following are the ranges for September 2006 recorded by the six passive stations located throughout the PAS zone. There was an issue with passives during the month, in which two O₃ samples were missing for the month of September. Upon arrival at the Hospital and Southridge passive station sites the technician found the passives samplers missing from the shelter. A search was made of the area but the sample filters were not found. As this was the first month that single samples were missing from two sites it is unknown if the missing samples were from human or animal activity.

- Monthly average concentrations for SO₂ passives were all <0.5 ppb.
- Monthly average concentrations for NO₂ passives ranged from 4.7 ppb to 6.8 ppb
- Monthly average concentrations for O₃ passives ranged from 22.5 ppb to 28.0 ppb

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

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AQM Environmental Specialist



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on September 21st and 22nd. There were no outstanding issues for the month of September.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	There were thirteen (13) hours flagged invalid on September 21 st and 22 nd due to technician error (analyzer not connected properly to ambient lines, corrected on September 22 nd). Calibration was performed on September 21 st .
Nitrogen Dioxide	Teledyne - API	200E	ppb	Calibration was performed on September 21 st . No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	Calibration was performed on September 21 st . No operational issues observed.
Carbon Monoxide	TEI	49C	ppm	Calibration was performed on September 22 nd . No operational issues observed.
PM 2.5	R&P TEOM	1400ab	µg/m ³	Calibration was performed on September 21 st and 22 nd (flows and filters checked). After the filter was replaced on Sept. 22 nd there were two (2) hours of invalid data due to excessive noise. There were seventy (70) 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		No operational issues observed.



September 2006 Monthly Overall Summary Report Ambient Air Quality Data

Sep-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	3.8	-	-	147.8	Sep-05 01:00	3.2	ESE	25.9	Sep-05	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	8.1	0	0	44.0	Sep-05 01:00	3.2	ESE	20.6	Sep-05	100.0%
NO _x (ppb)			Crescent Heights	11.7	-	-	189.1	Sep-05 01:00	3.2	ESE	46.2	Sep-05	100.0%
O ₃ (ppb)	82		Crescent Heights	23.4	0	-	60.2	Sep-06 18:00	6.9	WNW	37.4	Sep-10	98.2%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						52.2	Sep-04	
CO (ppm)	13		Crescent Heights	0.15	0	-	0.7	Sep-29 20:00	4.6	SSE	0.2	Sep-10	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.3	Sep-22	
THC (ppm)			Crescent Heights	2.03	-	-	2.8	Sep-07 04:00	3.4	NW	2.2	Sep-07	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	4.2		0	27.3	Sep-06 23:00	4.2	SW	13.8	Sep-10	90.0%
RH (%)			Crescent Heights	56.7	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	162.9	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	14.9	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	2.4	-	-	24.6	Sep-16 14:00	24.6	NNW	18.5	16-Sep	100.0%
WSPD s (km/hr)			Crescent Heights	10.0	-	-	24.8	Sep-16 14:00	24.8	NNW	18.7	16-Sep	100.0%
WDIR (Deg)			Crescent Heights	WNW	-	-	-	-	-	-	-	-	100.0%

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

* Wind Direction is the predominate direction for the Month



PAS - Crescent Heights

Monthly Summary Tables, Graphs, and Roses



PAS - Crescent Heights - AQI Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: September 1, 2006 to October 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:	590
Number of 1-hr Fair Readings:	24
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

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



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

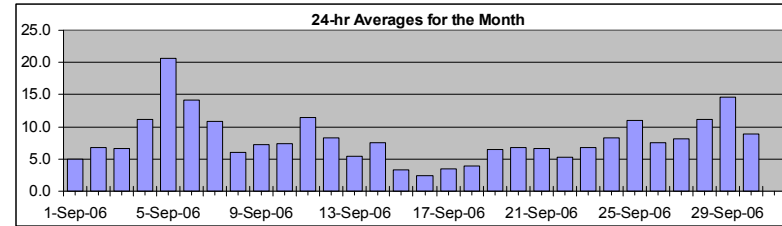
Nitrogen Dioxide (NO₂)

Monitoring Dates: September 1, 2006 to October 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:	44.0 ppb 5-Sep 0:00 1:00
Maximum 24-hr Average:	20.6 ppb 5-Sep

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	31.6	21.4	10.4	6.1	3.6	1.8	1.4	8.1 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																							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-Sep-06	6	A	9	8	8	9	9	8	5	3	3	2	2	2	1	3	2	3	6	9	7	4	3	3		4.9	9.5	
2-Sep-06	A	12	9	10	10	12	12	13	5	2	2	2	2	2	2	2	3	5	6	12	9	9	7	A		6.8	13.3	
3-Sep-06	6	4	8	7	7	7	8	7	6	6	4	4	2	3	2	3	2	5	12	20	14	11	A	8		6.6	19.8	
4-Sep-06	28	20	20	13	9	12	20	15	5	7	7	7	4	1	1	1	2	6	9	21	A	A	25	24		11.2	28.3	
5-Sep-06	44	34	32	29	20	20	20	22	18	12	9	6	8	7	8	4	7	11	28	40	A	41	26	26		20.6	44.0	
6-Sep-06	16	16	18	18	19	17	16	11	8	7	8	10	10	5	6	8	8	6	22	A	21	25	26	26		14.2	26.2	
7-Sep-06	32	29	32	25	19	22	21	13	8	4	3	2	2	2	2	2	2	2	A	8	5	4	4	7		10.9	32.0	
8-Sep-06	4	5	6	8	11	11	7	10	13	4	2	3	3	5	5	6	6	A	8	5	4	4	6	2		6.0	12.5	
9-Sep-06	2	4	4	5	3	7	12	7	6	4	3	4	4	3	2	4	A	11	25	10	12	8	14	11		7.2	25.3	
10-Sep-06	7	6	6	8	6	4	4	3	4	5	4	3	3	4	5	A	7	6	5	16	25	12	15	11		7.4	25.5	
11-Sep-06	10	10	8	8	8	14	14	14	7	6	9	12	7	4	A	6	4	6	17	27	23	13	14	21		11.4	26.9	
12-Sep-06	21	23	10	10	7	13	15	14	17	11	5	3	2	A	5	3	3	3	5	4	4	4	5	3		8.3	23.2	
13-Sep-06	2	4	5	12	12	5	11	5	3	2	3	3	A	8	5	5	3	3	2	4	4	4	7	12		5.4	12.4	
14-Sep-06	11	7	4	4	5	9	16	11	15	12	10	A	15	10	4	4	5	11	4	3	3	3	3	3		7.5	15.8	
15-Sep-06	4	4	5	6	6	6	3	4	3	3	A	6	4	3	3	2	2	2	2	2	2	2	2	2		3.4	6.2	
16-Sep-06	1	1	2	2	2	2	2	4	3	A	5	3	3	2	3	2	2	2	2	3	3	3	3	2		2.5	5.3	
17-Sep-06	2	2	2	2	5	9	3	3	A	6	4	4	4	3	3	5	6	4	3	3	2	2	2	2		3.4	8.8	
18-Sep-06	1	2	6	8	5	10	13	A	10	4	3	2	2	2	2	2	2	2	3	2	2	2	3	4		4.0	13.0	
19-Sep-06	4	4	6	5	8	9	A	15	6	4	4	6	5	8	7	6	6	6	7	6	7	4	10	9		6.5	15.0	
20-Sep-06	7	7	7	7	7	A	13	9	8	6	5	4	4	3	4	5	7	10	9	7	12	6	3	5		6.8	13.0	
21-Sep-06	6	6	4	3	A	11	12	12	9	10	C	C	C	A	4	6	7	4	6	4	7	5	6	7		6.7	12.2	
22-Sep-06	10	7	A	7	9	10	8	3	2	3	4	4	3	3	3	3	3	4	6	4	4	5	5	11		5.3	10.6	
23-Sep-06	15	9	A	12	10	9	8	6	5	4	3	3	3	3	3	3	3	5	4	5	7	14	10	15		6.8	15.2	
24-Sep-06	13	A	9	6	4	5	4	4	3	5	6	5	2	2	3	3	2	4	6	12	29	27	19	16		8.2	28.7	
25-Sep-06	A	13	15	16	15	12	9	9	3	3	4	7	9	6	8	7	8	18	21	9	14	10	19	20		11.0	21.4	
26-Sep-06	17	14	A	17	12	11	13	10	7	10	7	5	3	3	4	3	4	4	8	7	4	3	2	1		7.5	17.4	
27-Sep-06	2	A	7	9	10	16	16	11	9	10	12	10	4	3	3	2	3	6	5	11	9	14	6	12		8.2	15.7	
28-Sep-06	A	9	5	6	5	6	9	12	11	8	12	10	8	6	6	6	10	19	17	17	13	24	27	A		11.1	27.4	
29-Sep-06	23	16	19	18	21	18	14	11	8	8	6	4	7	5	12	9	11	13	22	34	21	17	A	18		14.6	34.0	
30-Sep-06	17	9	13	8	6	7	9	6	4	4	9	8	7	7	8	10	14	8	4	8	10	A	20	9		8.9	20.1	
Hourly Avg	11.6	10.3	10.0	9.9	9.3	10.4	11.2	9.4	7.3	5.9	5.5	5.0	4.7	4.1	4.3	4.3	4.9	6.4	9.3	10.3	10.2	10.0	10.3	10.3				
Hourly Max	44.0	33.9	31.9	29.3	20.8	21.9	21.3	21.5	18.4	12.2	12.2	12.3	15.0	9.5	11.6	9.5	14.0	19.4	28.1	39.7	28.7	41.0	27.4	26.5				

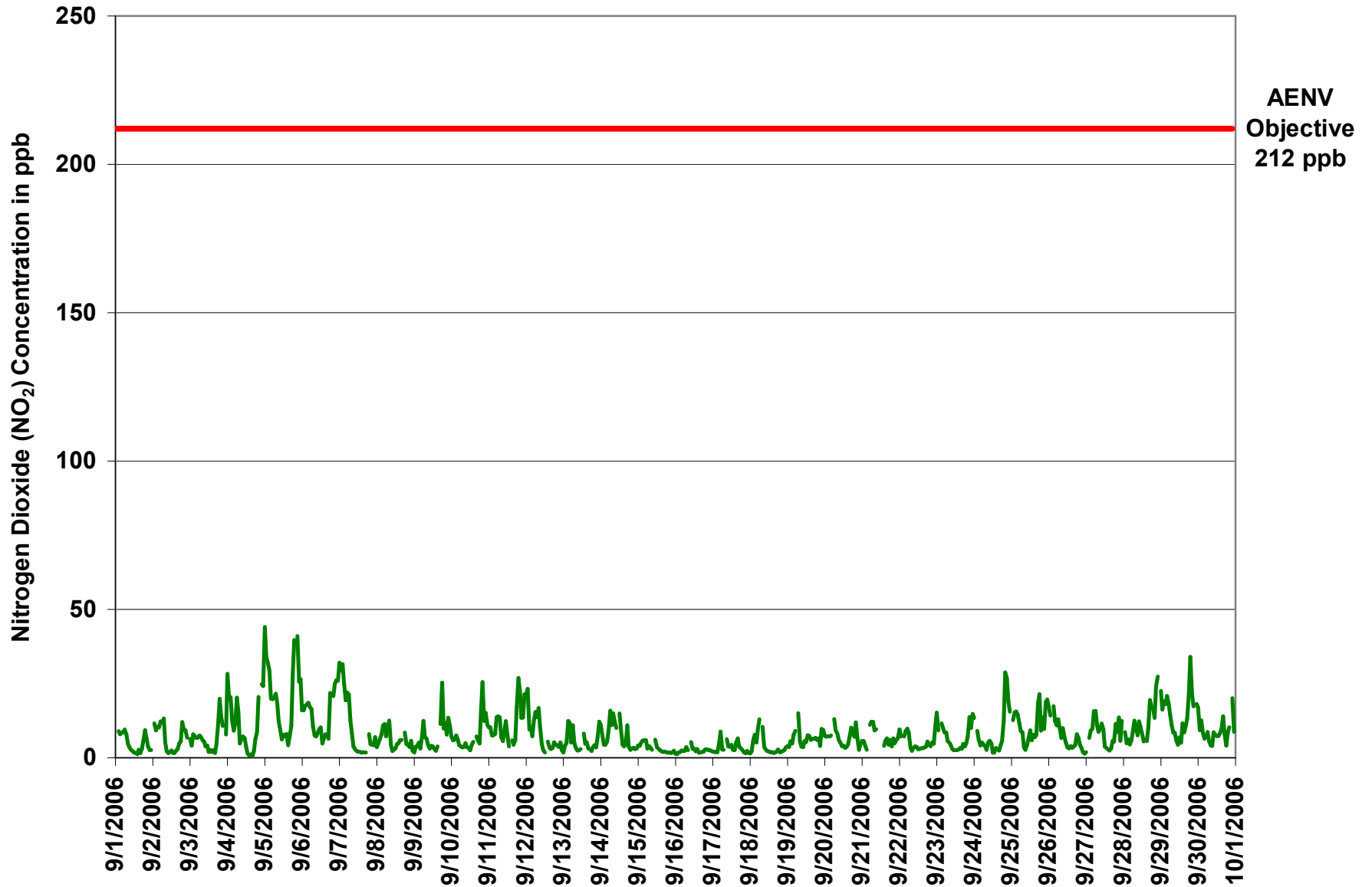


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

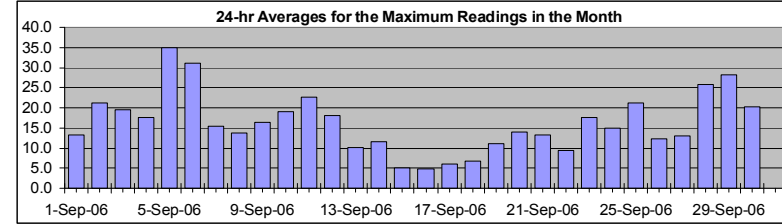
Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	107.8	ppb	5-Sep	0:00 1:00
Maximum 24-hr Value:	35.0	ppb	5-Sep	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	60.2	42.6	22.9	11.7	6.1	3.2	2.6	16.3 ppb	11.7 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Sep-06	Hour End	23	A	15	19	29	27	25	28	7	7	4	15	13	6	2	20	3	18	11	12	8	6	4	4	13.3	29.4	
2-Sep-06		A	40	14	16	14	22	17	40	12	5	3	25	33	3	3	21	30	26	7	75	13	25	24	A	21.1	74.6	
3-Sep-06		47	26	16	10	9	16	9	9	9	7	5	9	3	34	31	37	3	38	47	30	19	21	A	13	19.5	47.3	
4-Sep-06		59	39	34	17	12	14	24	20	10	9	9	8	6	3	3	6	2	5	9	12	38	A	33	33	17.6	59.3	
5-Sep-06		108	39	43	77	38	33	24	23	22	15	11	16	11	10	31	7	29	19	51	53	A	58	32	53	35.0	107.8	
6-Sep-06		27	27	45	46	80	45	19	16	10	9	12	16	16	16	9	34	52	22	9	45	A	41	60	44	30	31.0	79.7
7-Sep-06		60	41	35	32	27	25	27	16	12	6	4	3	3	5	4	4	3	3	A	13	7	6	6	14	15.4	60.1	
8-Sep-06		6	7	9	10	17	15	14	23	21	8	4	4	4	43	7	29	10	A	15	6	7	7	45	3	13.7	45.4	
9-Sep-06		3	9	9	9	4	9	18	8	9	6	5	9	5	19	17	34	A	35	62	15	19	27	27	19	16.4	61.9	
10-Sep-06		43	10	37	36	29	6	6	5	5	9	7	6	4	10	10	A	12	9	7	29	55	60	29	14	19.0	59.6	
11-Sep-06		16	39	35	32	35	36	19	18	9	7	22	24	9	5	A	9	7	11	38	47	38	18	17	27	22.6	47.3	
12-Sep-06		33	49	34	23	10	21	25	16	69	56	6	4	3	A	9	5	5	5	9	8	7	7	7	4	18.2	69.0	
13-Sep-06		3	7	18	35	15	7	18	11	5	3	5	5	A	12	8	9	5	4	4	10	11	5	9	22	10.0	34.7	
14-Sep-06		14	10	18	6	8	15	19	18	27	15	12	A	22	17	6	6	9	20	5	3	4	5	4	4	11.6	26.6	
15-Sep-06		6	5	7	7	7	9	8	6	5	5	A	10	5	4	4	4	3	3	3	2	3	3	4	5	5.0	10.0	
16-Sep-06		3	2	4	5	7	6	7	9	7	A	11	4	6	4	6	3	3	4	3	4	3	4	3	3	4.8	10.7	
17-Sep-06		3	3	3	3	14	17	9	4	A	11	5	5	7	4	4	11	9	8	5	4	3	2	4	3	6.1	16.5	
18-Sep-06		3	5	8	19	8	14	21	A	22	5	4	3	3	3	3	3	3	4	4	3	4	3	3	4	6.6	22.2	
19-Sep-06		5	4	7	6	9	11	A	20	11	5	5	12	13	26	9	9	10	12	10	8	13	7	23	22	11.2	26.4	
20-Sep-06		8	10	8	8	10	A	17	12	9	8	6	5	21	9	5	27	19	29	25	11	25	27	4	18	13.9	29.0	
21-Sep-06		15	30	17	4	A	24	17	17	12	12	C	C	C	A	6	9	12	8	11	12	11	11	13	13	13.3	30.0	
22-Sep-06		18	13	A	12	20	17	15	5	6	11	8	6	7	5	5	5	7	7	8	6	8	7	8	14	9.4	19.7	
23-Sep-06		21	18	A	14	31	15	23	8	35	6	5	23	29	28	7	8	5	7	5	6	14	30	25	44	17.7	43.5	
24-Sep-06		23	A	14	10	6	18	8	6	4	8	10	26	4	4	8	6	6	14	11	25	47	33	31	23	15.0	47.3	
25-Sep-06		A	21	30	18	17	16	12	14	5	5	11	19	23	10	34	13	16	32	45	32	40	17	29	28	21.2	44.9	
26-Sep-06		26	21	A	23	21	14	19	16	13	13	12	10	6	5	6	6	6	5	24	13	11	5	4	4	12.3	26.3	
27-Sep-06		4	A	11	14	13	20	19	14	12	12	16	27	8	8	6	4	7	11	15	15	14	18	10	19	12.9	26.7	
28-Sep-06		A	37	33	41	14	25	30	32	18	12	17	47	12	8	29	10	15	33	32	21	26	31	46	A	25.8	47.5	
29-Sep-06		33	42	24	42	30	38	32	30	11	10	15	7	41	14	28	13	30	24	35	49	46	23	A	30	28.2	48.6	
30-Sep-06		21	16	18	13	9	24	21	7	6	17	36	12	14	37	12	38	41	23	6	20	17	A	37	17	20.1	41.1	
Hourly Avg		23.4	21.2	20.1	20.2	18.8	19.2	17.9	15.5	13.8	10.4	9.6	12.9	11.9	12.4	11.6	14.0	11.4	14.6	19.0	18.8	19.0	18.8	18.7	17.4			
Hourly Max		107.8	49.4	45.2	77.4	79.7	44.9	31.8	39.5	69.0	56.5	36.4	47.5	41.4	42.5	34.3	52.3	41.1	37.9	61.9	74.6	54.6	60.5	45.9	53.3			

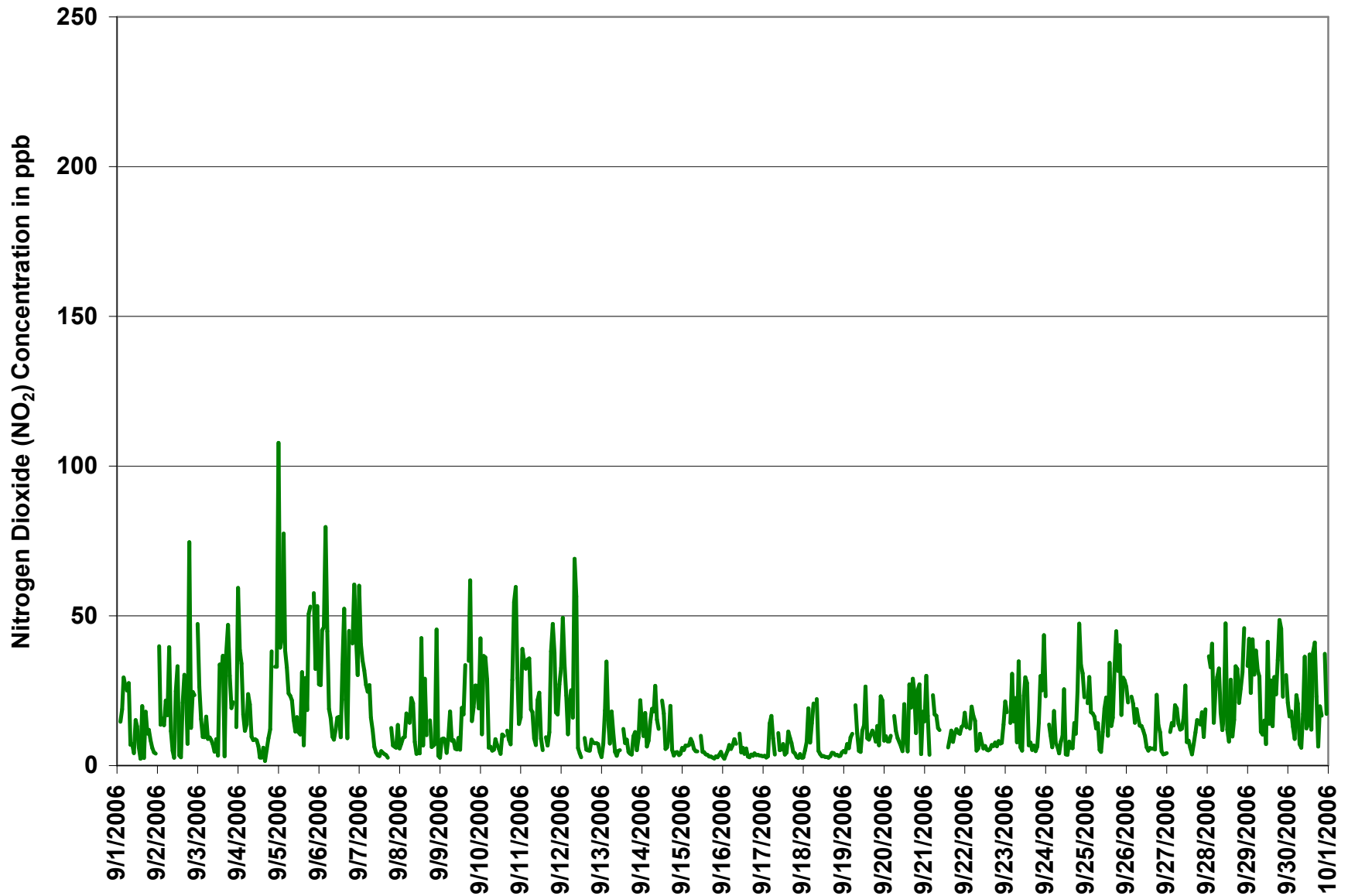
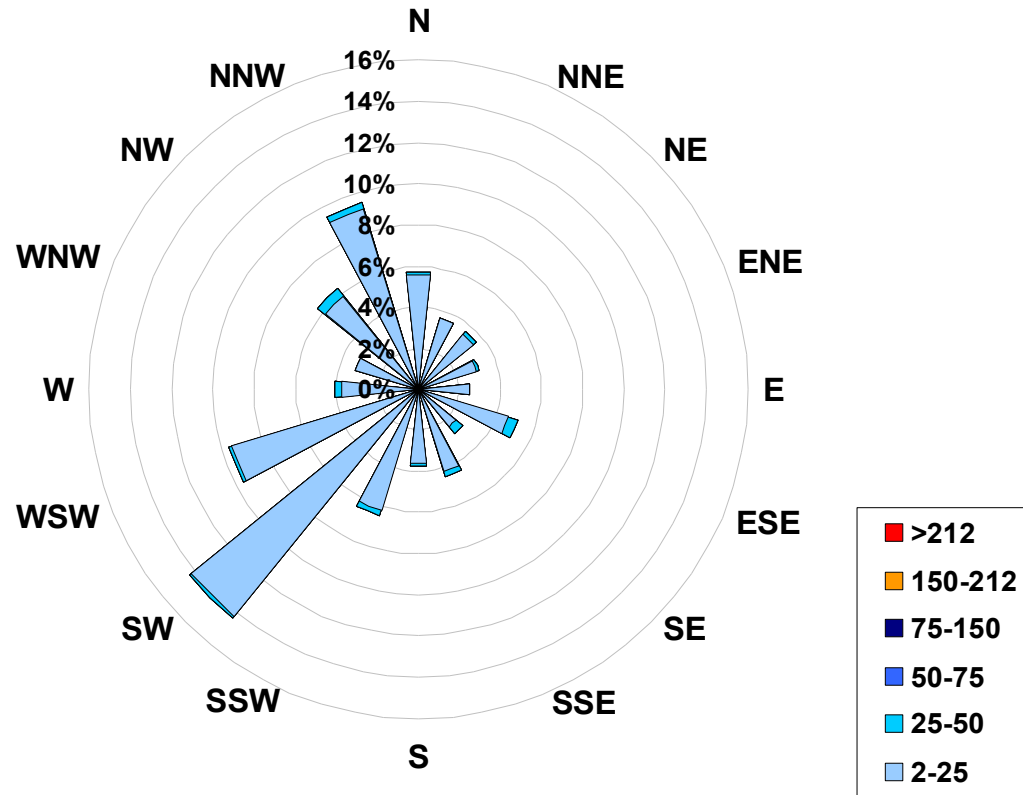


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		670
25	to 50		9
50	to 75		2
75	to 150		3
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)

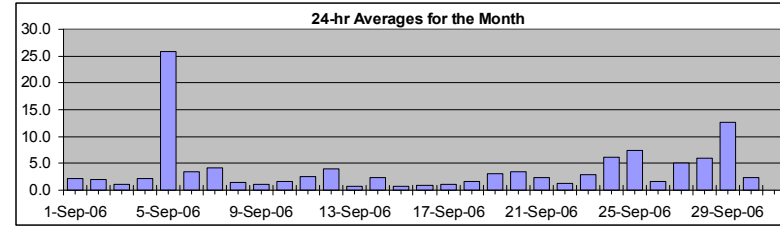
Monitoring Dates: September 1, 2006 to October 1, 2006

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	147.8	ppb	5-Sep	0:00 1:00
Maximum 24-hr Average:	25.9	ppb	5-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.8	14.6	3.2	1.3	0.6	0.2	0.1	3.8 ppb	1.3 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
1-Sep-06	4	A	0	3	8	5	6	8	3	2	2	1	1	1	1	1	2	1	1	1	1	0	0	0	0	2.2	8.0
2-Sep-06	A	4	1	1	1	1	2	16	2	1	1	1	2	1	1	1	1	1	1	0	4	0	1	0	A	1.9	16.5
3-Sep-06	1	1	0	0	0	0	1	3	2	2	1	1	1	1	1	2	0	2	1	0	0	0	A	0	1.0	2.6	
4-Sep-06	14	2	0	0	0	0	7	11	2	3	3	2	1	0	0	0	0	0	0	0	1	A	1	2	2.2	13.9	
5-Sep-06	148	68	105	105	22	21	30	28	12	6	3	2	2	2	2	2	1	1	1	2	5	A	15	2	11	25.9	147.8
6-Sep-06	2	4	13	7	7	6	6	5	3	3	3	3	3	1	3	3	1	1	1	A	1	2	1	1	3.4	12.8	
7-Sep-06	25	8	30	5	1	3	10	5	3	1	1	1	1	1	1	0	0	0	A	1	0	0	0	0	4.2	30.0	
8-Sep-06	0	0	0	0	0	1	1	5	8	2	1	1	1	2	1	2	1	A	1	6	0	0	0	2	1.4	8.2	
9-Sep-06	0	0	0	1	0	0	3	2	3	2	1	1	1	1	1	1	1	A	1	6	0	0	0	0	1.1	6.3	
10-Sep-06	3	0	1	4	1	0	1	1	1	1	1	1	1	1	1	A	1	0	0	1	8	8	1	0	1.6	8.1	
11-Sep-06	0	3	3	5	3	3	4	8	3	2	3	5	2	1	A	0	0	1	1	2	6	2	0	0	2.5	7.8	
12-Sep-06	5	45	4	2	0	1	5	7	15	5	1	0	0	A	0	0	0	0	0	0	0	0	0	0	4.0	44.5	
13-Sep-06	0	0	0	2	0	0	2	1	1	1	1	A	2	1	1	1	1	1	0	0	1	0	0	1	0.7	2.2	
14-Sep-06	1	0	2	0	0	2	12	5	14	6	4	A	4	2	1	1	0	1	0	0	0	0	0	0	2.4	14.3	
15-Sep-06	0	0	1	0	1	1	0	1	1	1	A	1	1	2	1	1	1	1	0	0	0	0	1	1	0.8	1.8	
16-Sep-06	0	0	0	0	1	1	1	2	1	A	1	1	2	1	2	1	1	1	1	1	1	1	0	0	0.9	2.0	
17-Sep-06	0	0	0	0	2	3	1	1	A	1	1	1	2	1	1	2	2	1	1	1	1	0	0	0	1.0	3.2	
18-Sep-06	0	0	0	3	1	2	16	A	8	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1.6	15.6	
19-Sep-06	0	0	0	0	1	3	A	17	5	3	2	3	4	6	3	2	3	2	3	2	3	1	4	4	3.1	17.1	
20-Sep-06	1	2	1	1	3	A	8	8	6	5	4	2	2	2	2	3	2	7	4	1	9	4	0	1	3.5	9.5	
21-Sep-06	1	6	2	0	A	4	5	7	6	7	C	C	C	A	0	1	1	1	1	1	1	0	1	0	2.3	6.6	
22-Sep-06	1	1	A	1	2	2	2	1	1	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1.3	2.3	
23-Sep-06	5	4	A	2	3	3	7	5	6	3	2	1	2	2	2	1	1	1	1	1	1	0	2	4	2.9	10.0	
24-Sep-06	12	A	1	1	1	2	1	4	3	6	6	5	1	1	2	1	1	1	1	2	37	32	15	7	6.1	36.6	
25-Sep-06	A	3	24	19	16	10	5	7	3	3	4	7	8	4	7	3	2	6	21	1	9	1	6	3	7.3	23.8	
26-Sep-06	5	1	A	3	1	1	3	3	1	4	3	2	1	2	1	1	0	1	1	1	0	1	1	0	1.7	4.7	
27-Sep-06	0	A	1	1	1	9	17	15	12	16	18	12	3	2	1	1	1	1	1	1	1	1	0	1	5.0	18.1	
28-Sep-06	A	5	3	4	1	2	6	12	10	5	14	10	4	3	3	2	2	6	3	1	2	6	29	A	6.0	28.7	
29-Sep-06	10	15	28	10	43	20	18	16	12	8	4	2	6	2	5	2	3	2	6	56	15	4	A	4	12.7	55.8	
30-Sep-06	6	1	3	0	0	2	4	1	1	2	5	3	3	4	3	5	6	1	0	0	0	A	3	1	2.4	6.1	
Hourly Avg	9.1	6.5	8.3	6.0	4.2	3.8	6.3	7.0	5.1	3.4	3.3	2.6	2.1	1.8	1.7	1.5	1.3	1.5	2.1	3.0	3.3	2.9	2.6	1.9			
Hourly Max	147.8	68.4	105.1	104.8	43.4	21.5	29.7	28.3	14.6	15.6	18.1	11.9	7.6	5.8	6.8	5.5	6.1	6.9	21.1	55.8	36.6	32.3	28.7	10.9			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

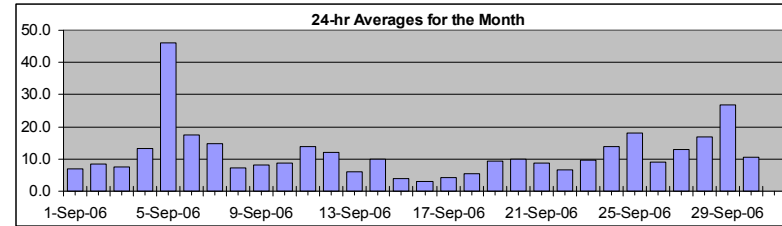
Monitoring Dates: September 1, 2006 to October 1, 2006

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	189.1	ppb	5-Sep	0:00 1:00
Maximum 24-hr Average:	46.2	ppb	5-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	64.2	31.6	13.5	7.5	4.3	2.1	1.6	11.7 ppb	7.5 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		
1-Sep-06	10	A	9	11	16	13	16	16	8	5	4	3	3	2	2	4	2	4	6	10	7	4	3	3	7.0	16.4
2-Sep-06	A	15	10	11	11	13	14	30	7	3	2	3	4	2	2	3	4	6	6	16	10	10	7	A	8.5	29.5
3-Sep-06	7	5	8	8	7	7	9	9	8	7	5	5	2	4	3	4	2	7	13	20	14	11	A	8	7.6	20.2
4-Sep-06	42	22	21	13	9	12	27	26	7	9	10	9	4	2	1	2	1	2	7	9	22	A	25	26	13.4	42.3
5-Sep-06	189	102	137	134	42	41	50	50	31	18	12	8	10	9	10	5	8	12	30	45	A	56	27	37	46.2	189.1
6-Sep-06	17	20	30	25	26	23	22	15	10	10	11	12	13	6	9	11	9	7	23	A	21	27	27	27	17.4	30.1
7-Sep-06	57	37	61	31	20	25	31	17	11	4	3	3	2	2	2	2	2	2	A	8	4	5	4	7	14.9	61.3
8-Sep-06	4	5	7	8	11	12	8	16	21	6	3	3	4	7	6	8	7	A	9	5	5	4	8	2	7.2	20.6
9-Sep-06	2	4	4	5	3	7	15	9	9	6	4	5	4	4	3	4	A	13	31	10	12	8	14	11	8.1	31.5
10-Sep-06	10	6	7	11	7	4	4	4	4	6	4	4	3	6	6	A	8	6	5	16	33	20	16	11	8.8	33.4
11-Sep-06	10	14	10	12	11	17	18	21	10	8	12	17	9	4	A	6	5	6	19	33	24	14	14	24	13.7	32.8
12-Sep-06	26	68	14	12	7	14	20	21	31	16	6	3	2	A	6	3	3	3	5	4	4	4	5	2	12.1	67.5
13-Sep-06	2	4	5	15	12	5	12	6	4	3	3	3	A	10	5	6	4	3	2	4	5	4	7	13	5.9	14.5
14-Sep-06	12	7	6	4	6	11	27	15	29	17	14	A	19	12	5	4	5	12	4	3	3	4	3	3	9.8	29.2
15-Sep-06	4	4	6	6	7	7	3	5	4	4	A	7	4	5	4	3	3	3	2	2	2	2	2	3	4.0	7.3
16-Sep-06	2	1	2	2	3	3	3	5	4	A	6	4	5	3	4	2	2	3	2	3	3	3	3	2	3.2	6.5
17-Sep-06	2	2	2	2	6	12	3	3	A	7	5	5	6	4	3	6	8	4	4	3	2	2	2	2	4.2	11.8
18-Sep-06	1	2	6	10	6	12	28	A	19	5	4	3	2	2	2	2	2	2	3	2	2	2	3	4	5.4	28.4
19-Sep-06	4	4	6	5	9	12	A	32	10	6	6	9	9	13	10	8	9	8	9	8	9	5	14	13	9.4	32.1
20-Sep-06	8	8	8	8	10	A	21	17	14	10	9	6	6	6	5	7	9	17	13	8	21	9	3	5	10.0	21.2
21-Sep-06	6	11	6	3	A	15	17	19	15	16	C	C	C	A	5	6	8	5	7	4	7	5	6	7	8.8	18.6
22-Sep-06	11	8	A	8	11	12	11	5	3	5	6	6	4	4	4	5	4	5	6	5	5	6	6	12	6.6	12.0
23-Sep-06	20	13	A	13	13	12	15	10	11	7	4	3	5	4	4	4	4	5	4	5	7	15	14	24	9.5	24.4
24-Sep-06	25	A	9	6	4	6	5	7	5	11	12	9	2	2	4	3	3	5	6	14	65	58	33	22	13.7	64.7
25-Sep-06	A	15	38	34	30	21	13	15	6	5	8	13	16	9	14	10	10	24	43	11	23	11	25	23	18.0	42.8
26-Sep-06	22	16	A	20	14	12	17	14	8	14	10	6	5	5	5	4	4	5	9	7	5	4	2	2	9.1	22.3
27-Sep-06	2	A	7	10	11	25	32	25	21	25	30	21	6	5	4	3	4	6	6	12	9	15	6	13	13.0	32.4
28-Sep-06	A	13	7	10	5	8	15	25	20	12	26	20	12	9	9	7	13	26	20	18	15	30	56	A	17.0	55.7
29-Sep-06	32	32	47	28	64	38	32	27	20	16	9	6	13	6	16	10	13	14	28	89	36	21	A	22	26.9	89.4
30-Sep-06	23	10	15	8	6	9	12	6	5	5	13	10	9	10	10	15	20	9	4	8	10	A	23	6	10.7	22.8
Hourly Avg	20.4	16.6	18.1	15.8	13.3	14.0	17.3	16.2	12.2	9.2	8.6	7.3	6.6	5.6	5.7	5.5	6.0	7.7	11.2	13.1	13.3	12.7	12.7	11.9		
Hourly Max	189.1	102.3	136.8	133.9	64.1	41.2	50.1	49.9	31.2	25.1	29.8	21.3	19.2	13.2	16.5	14.5	19.6	25.6	42.8	89.4	64.7	58.3	55.7	37.2		

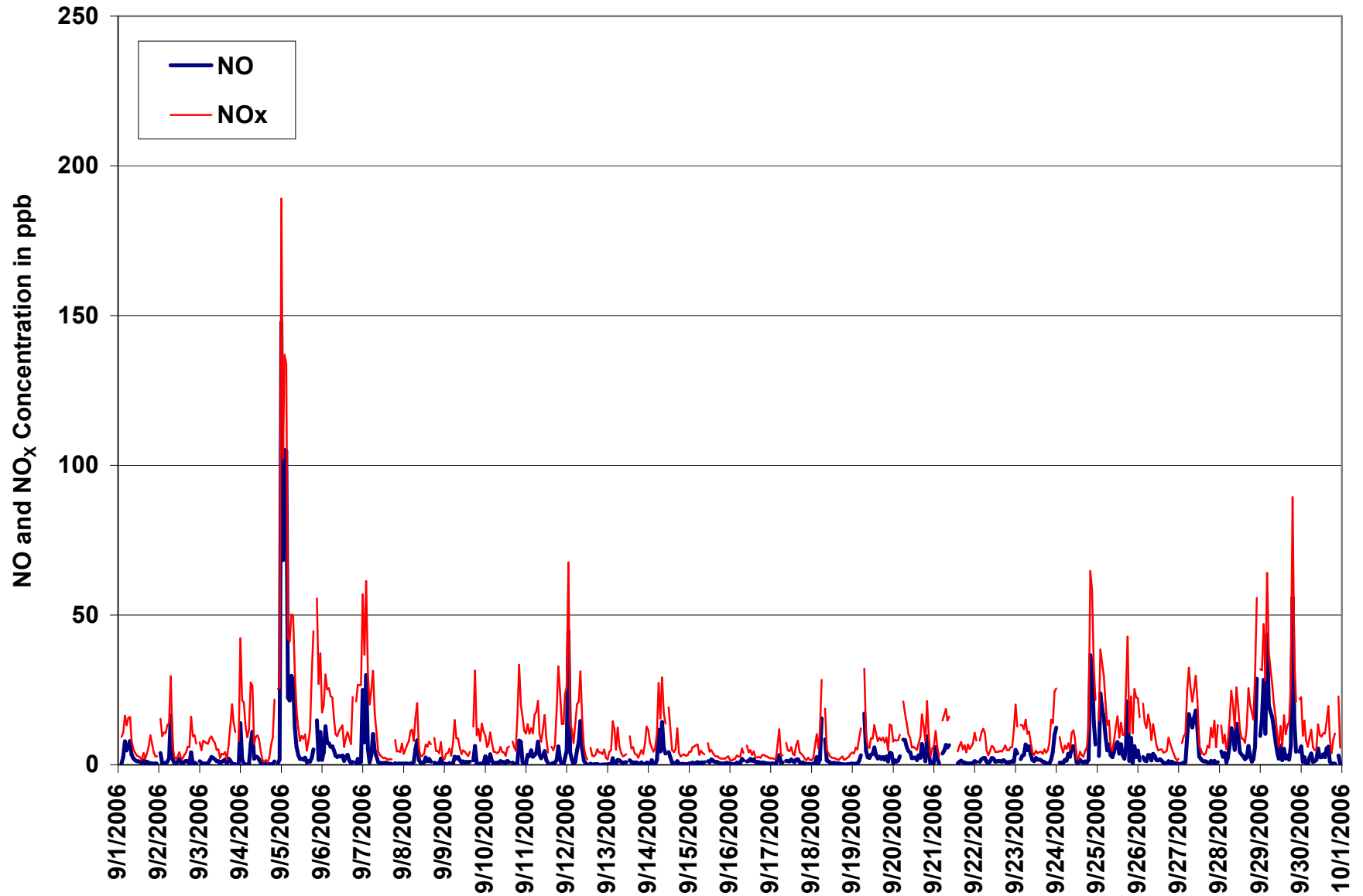


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

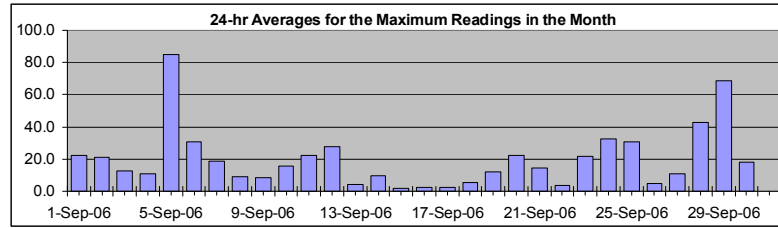
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	504.7	ppb	5-Sep	0:00 1:00
Maximum 24-hr Value:	85.1	ppb	5-Sep	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	180.7	92.7	18.0	3.8	1.8	1.0	0.8	19.7 ppb	3.8 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-Sep-06	47	A	2	38	99	66	65	109	5	6	4	14	14	6	1	16	2	14	1	1	1	1	1	1	22.5	109.0
2-Sep-06	A	53	3	3	2	5	5	130	5	2	2	27	47	3	2	20	28	14	1	101	1	8	5	A	21.2	130.5
3-Sep-06	31	28	2	2	2	12	3	4	4	3	2	3	2	27	36	53	1	39	33	1	1	1	A	2	12.7	52.7
4-Sep-06	134	9	3	2	1	2	13	19	5	4	4	3	2	1	2	2	1	1	1	1	9	A	3	24	10.7	134.3
5-Sep-06	505	91	239	391	113	128	74	35	22	9	5	11	3	3	22	2	11	2	16	41	A	57	7	170	85.1	504.7
6-Sep-06	5	19	173	90	114	115	15	13	5	4	5	6	6	3	37	56	6	1	2	A	4	16	3	3	30.4	173.0
7-Sep-06	190	57	65	26	3	14	26	13	4	2	1	1	1	3	2	2	2	1	A	2	2	2	2	1	18.4	189.8
8-Sep-06	1	1	1	1	2	1	4	19	25	3	2	2	2	55	2	24	2	A	2	1	2	2	48	1	8.8	54.8
9-Sep-06	1	1	1	3	1	1	6	4	4	3	2	3	2	14	20	18	A	14	90	1	2	2	3	2	8.6	89.8
10-Sep-06	48	1	29	38	15	1	2	1	2	3	2	2	1	3	4	A	2	2	2	2	60	132	6	1	15.6	131.7
11-Sep-06	1	80	87	66	67	78	8	12	4	3	11	13	3	1	A	1	2	2	16	41	8	2	2	9	22.5	86.5
12-Sep-06	37	304	59	14	1	6	26	11	146	17	3	1	1	A	1	1	2	1	1	1	2	2	1	1	27.8	303.7
13-Sep-06	1	1	1	36	1	1	5	12	2	1	3	2	A	5	2	2	2	2	1	2	10	1	1	4	4.3	36.5
14-Sep-06	1	1	33	1	1	14	26	20	56	12	6	A	22	8	1	1	1	5	1	1	1	1	1	1	9.4	55.5
15-Sep-06	1	2	2	1	2	2	1	2	2	2	A	2	2	6	3	2	2	2	1	1	2	1	2	2	1.9	6.3
16-Sep-06	2	1	1	1	2	1	2	6	4	A	2	2	5	3	5	2	2	2	2	2	2	1	1	1	2.3	6.0
17-Sep-06	1	1	1	1	8	8	3	2	A	2	2	2	3	2	2	4	3	2	1	2	1	1	2	1	2.5	8.1
18-Sep-06	1	2	1	27	3	5	42	A	25	3	2	2	1	1	1	2	2	2	2	2	2	1	1	1	5.7	42.0
19-Sep-06	1	1	1	1	2	5	A	21	15	4	4	9	13	33	5	5	5	10	23	4	16	2	50	45	11.9	50.2
20-Sep-06	2	7	2	3	18	A	12	12	8	7	6	4	33	51	3	53	17	56	61	5	69	72	1	4	22.1	71.8
21-Sep-06	3	126	30	1	A	43	15	13	11	11	C	C	C	A	3	3	5	4	2	2	2	2	2	2	14.7	125.7
22-Sep-06	3	3	A	3	5	6	5	3	3	3	6	4	3	4	4	3	3	4	3	3	2	3	4	3	3.7	6.2
23-Sep-06	11	18	A	5	50	22	73	10	100	5	4	13	34	22	5	4	3	2	1	2	1	7	32	74	21.6	99.9
24-Sep-06	144	A	2	3	3	34	4	7	5	10	13	49	3	2	4	3	3	6	4	16	179	66	145	43	32.5	179.0
25-Sep-06	A	10	87	31	25	24	10	13	5	4	14	37	31	7	70	7	4	18	120	36	107	3	27	12	30.6	119.9
26-Sep-06	14	6	A	10	4	4	8	5	5	6	7	4	4	3	3	2	2	2	6	1	3	2	2	2	4.6	13.8
27-Sep-06	2	A	3	3	4	33	31	23	19	19	25	51	7	5	3	2	3	2	3	3	3	4	3	3	10.9	50.6
28-Sep-06	A	75	74	58	12	49	115	81	20	12	36	140	14	8	26	3	4	37	32	3	19	20	99	A	42.6	140.1
29-Sep-06	47	167	82	119	102	93	222	73	19	14	27	5	70	9	32	4	27	11	75	189	116	33	A	39	68.5	222.3
30-Sep-06	26	9	15	2	2	55	23	3	4	31	69	5	6	39	4	44	45	6	1	2	2	A	14	3	17.9	69.0
Hourly Avg	46.7	39.8	37.0	32.7	23.0	28.6	29.2	23.3	18.4	7.1	9.5	14.9	12.0	11.7	10.5	11.8	6.6	9.1	17.4	16.2	21.6	15.9	16.7	16.3		
Hourly Max	504.7	303.7	238.9	391.3	113.9	128.2	222.3	130.5	146.1	31.0	69.0	140.1	70.3	54.8	70.3	55.7	45.4	55.8	119.9	189.5	179.0	131.7	145.5	170.1		



Station: Crescent Heights
 Station Owner: PAS

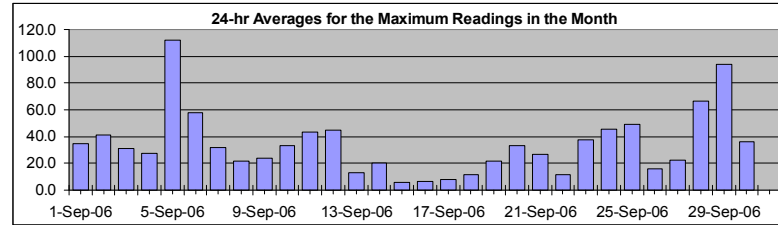
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	503.6	ppb	5-Sep	0:00 1:00
Maximum 24-hr Value:	111.8	ppb	5-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	224.8	127.0	40.0	15.0	7.4	3.6	2.8	34.3 ppb	15.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-Sep-06	0:00	70	A	17	56	123	91	89	135	12	11	6	29	26	9	4	37	3	31	11	13	8	7	5	4	34.6	134.8	
2-Sep-06	1:00	A	93	14	18	13	26	20	168	17	6	4	53	80	5	5	39	58	38	8	176	13	30	28	A	41.4	175.5	
3-Sep-06	2:00	79	55	16	10	9	25	12	13	12	9	6	12	4	60	67	88	4	67	78	31	19	21	A	14	30.9	87.5	
4-Sep-06	3:00	194	46	37	17	12	14	36	39	15	12	12	11	8	3	3	7	3	5	9	12	45	A	34	57	27.4	194.0	
5-Sep-06	4:00	504	128	274	419	152	158	97	57	43	23	15	27	14	12	48	8	39	20	65	94	A	113	39	223	111.8	503.6	
6-Sep-06	5:00	31	45	199	120	181	146	33	27	14	12	16	21	21	12	69	107	27	10	46	A	44	69	44	33	57.8	199.4	
7-Sep-06	6:00	240	96	98	57	29	38	49	29	16	8	5	4	4	7	4	3	3	3	A	12	7	7	6	13	32.1	240.2	
8-Sep-06	7:00	6	7	9	10	19	16	19	42	42	10	5	5	5	97	8	50	12	A	16	7	7	7	93	4	21.5	96.7	
9-Sep-06	8:00	3	9	9	11	4	9	23	11	12	7	6	12	6	31	32	50	A	49	149	15	21	27	26	19	23.7	149.2	
10-Sep-06	9:00	87	10	64	74	44	6	8	6	12	9	8	5	13	13	A	13	9	8	29	110	178	35	15	33.1	178.0		
11-Sep-06	10:00	17	117	117	90	98	108	25	29	13	10	32	36	11	6	A	10	8	13	54	86	46	19	17	33	43.2	116.8	
12-Sep-06	11:00	69	346	90	37	11	23	52	26	215	73	8	5	3	A	10	5	5	5	9	8	7	7	7	4	44.7	345.9	
13-Sep-06	12:00	3	7	19	67	15	7	22	23	6	4	7	7	A	14	9	9	5	6	4	11	17	5	10	26	13.2	67.0	
14-Sep-06	13:00	15	11	50	7	9	29	44	38	80	26	16	A	42	25	6	7	10	25	6	3	5	5	4	4	20.3	79.6	
15-Sep-06	14:00	6	6	8	7	8	10	9	7	6	5	A	12	6	10	6	4	4	4	3	3	3	3	4	4	5	6.1	11.5
16-Sep-06	15:00	4	3	4	6	9	7	8	15	11	A	12	6	11	7	10	4	4	5	4	5	4	4	4	3	6.5	14.7	
17-Sep-06	16:00	3	3	3	3	22	24	12	4	A	12	6	7	10	5	6	15	11	9	5	5	4	3	4	4	7.9	24.0	
18-Sep-06	17:00	3	5	8	46	10	18	63	A	48	7	5	4	4	4	4	3	4	4	4	4	3	3	4	5	11.4	62.5	
19-Sep-06	18:00	5	5	8	7	11	16	A	38	25	8	8	20	26	59	13	13	15	19	27	11	28	8	71	62	21.9	71.3	
20-Sep-06	19:00	9	16	9	10	28	A	25	22	17	15	11	8	50	56	6	71	35	74	85	16	88	93	4	21	33.5	93.3	
21-Sep-06	20:00	17	155	44	4	A	64	32	29	23	22	C	C	C	A	7	10	16	11	12	15	12	12	14	15	27.1	155.2	
22-Sep-06	21:00	21	15	A	14	23	20	20	7	7	14	14	9	9	8	7	7	8	8	9	7	11	9	11	15	11.8	23.4	
23-Sep-06	22:00	31	34	A	18	77	37	94	16	134	9	7	35	63	49	9	11	8	7	5	6	14	35	56	116	37.9	134.3	
24-Sep-06	23:00	162	A	15	11	7	53	8	11	8	17	22	73	5	4	11	8	8	19	13	40	223	98	172	65	45.8	223.0	
25-Sep-06	0:00	A	29	114	48	40	37	20	24	8	7	22	53	54	16	103	19	19	50	143	68	145	19	52	40	49.2	144.6	
26-Sep-06	1:00	39	27	A	34	24	18	23	22	17	20	16	12	7	8	7	7	6	6	30	14	13	5	4	3	15.7	39.3	
27-Sep-06	2:00	5	A	13	15	15	51	42	37	29	28	38	78	12	10	8	6	10	12	18	17	15	21	9	20	22.1	77.7	
28-Sep-06	3:00	A	103	109	91	26	73	145	112	37	24	50	187	22	14	55	12	18	68	60	23	42	52	137	A	66.4	187.3	
29-Sep-06	4:00	76	210	102	158	133	122	244	103	29	24	43	10	111	20	59	16	50	34	109	233	161	53	A	62	94.0	243.6	
30-Sep-06	5:00	44	25	32	12	9	75	41	7	8	48	101	16	19	75	15	79	86	27	6	21	18	A	50	14	36.1	100.7	
Hourly Avg		64.5	59.5	54.9	49.3	40.0	45.7	45.3	37.9	31.4	16.6	18.0	27.1	22.7	22.8	20.8	24.3	16.9	22.1	34.3	34.0	39.1	32.6	33.8	32.1			
Hourly Max		503.6	345.9	273.6	419.2	180.8	157.8	243.6	168.2	215.1	73.2	100.7	187.3	111.2	96.7	103.4	107.4	85.6	74.5	149.2	232.8	223.0	178.0	172.2	223.2			

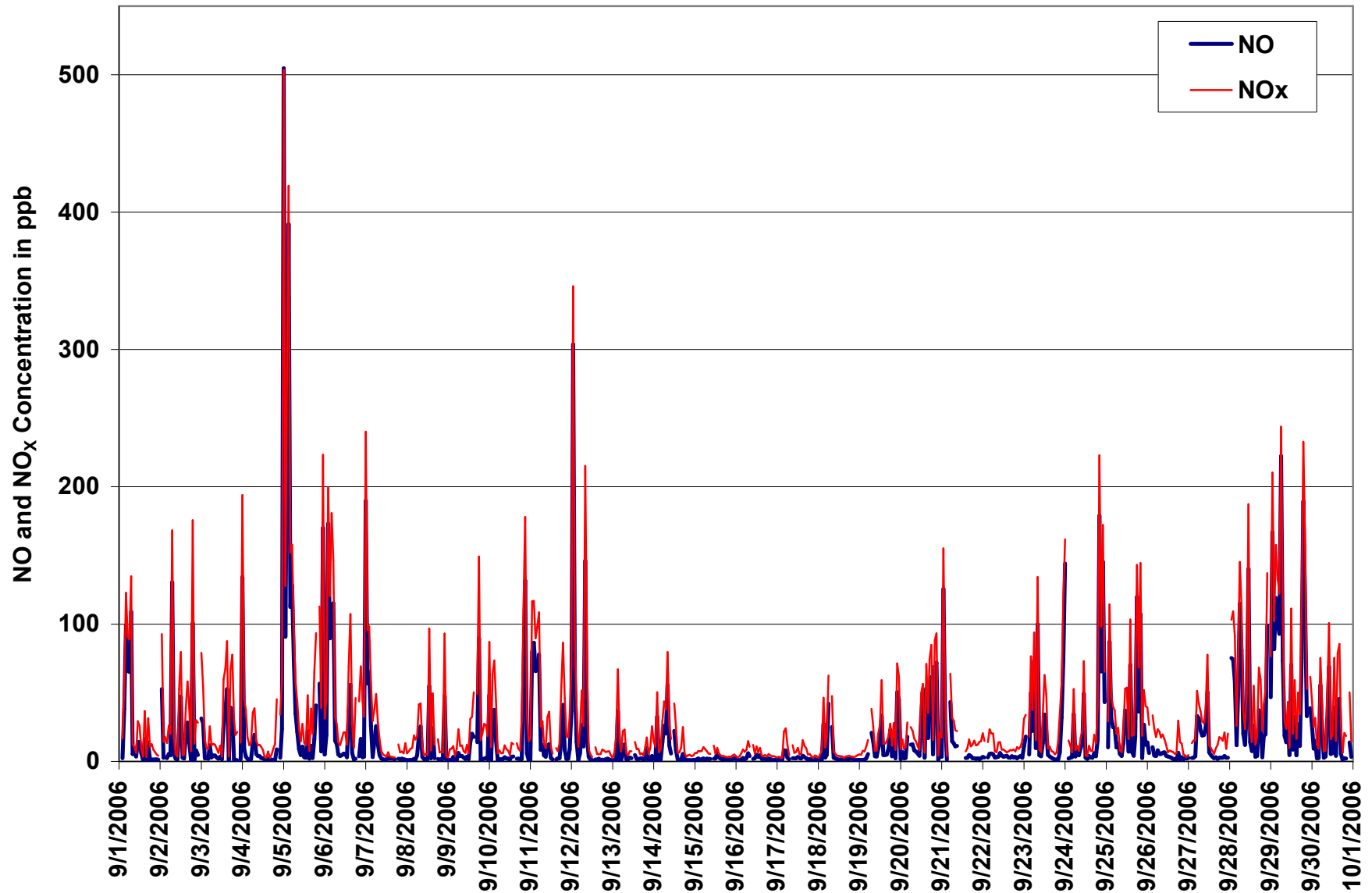


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

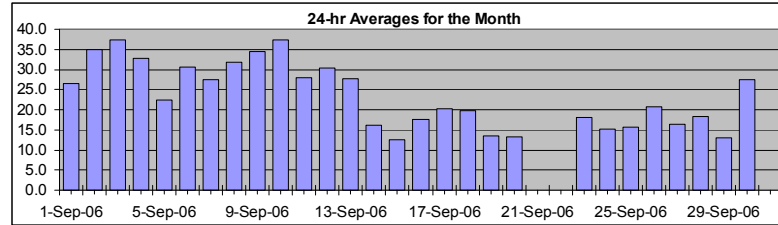
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: September 1, 2006 to October 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:	60.2 ppb	6-Sep	17:00 18:00
Maximum 24-hr Average:	37.4 ppb	10-Sep	



AIC Time:	32 hrs	Operational Time:	673 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	98.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	54.4	48.6	31.4	21.6	13.6	3.7	1.3	23.4 ppb	21.6 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							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-Sep-06	14	A	17	13	11	11	10	13	18	23	29	36	36	36	38	39	40	39	34	28	29	31	34	32			26.6	40.2	
2-Sep-06	A	27	23	22	20	16	18	22	34	41	42	43	43	46	48	48	47	46	44	37	32	31	38	A			34.9	47.9	
3-Sep-06	42	41	33	30	26	21	19	21	29	37	44	47	52	51	52	50	51	47	39	25	25	33	A	43			37.3	51.8	
4-Sep-06	22	24	17	23	23	19	11	14	27	31	37	46	55	57	56	54	53	51	46	42	25	A	13	9			32.8	57.2	
5-Sep-06	2	2	1	1	3	1	2	5	14	25	34	45	47	50	52	56	55	50	32	14	A	4	11	9			22.4	56.2	
6-Sep-06	15	15	16	10	10	12	9	17	23	28	33	43	47	54	52	50	53	60	40	A	45	37	22	14			30.6	60.2	
7-Sep-06	8	6	2	5	13	7	9	18	25	34	39	42	45	47	47	46	45	45	A	36	34	30	29	23			27.6	46.9	
8-Sep-06	30	26	22	17	13	14	19	17	18	32	39	44	47	43	45	44	44	A	38	36	33	36	36	38			31.8	47.5	
9-Sep-06	38	35	34	32	32	20	12	17	21	28	37	42	49	51	52	52	A	49	32	38	31	33	29	29			34.5	51.7	
10-Sep-06	34	34	31	28	29	28	30	32	37	42	47	49	50	48	48	A	52	48	49	34	24	35	25	25			37.4	52.4	
11-Sep-06	23	18	21	23	21	13	12	14	23	29	39	44	53	58	A	53	47	43	28	19	20	23	17	7			28.1	58.2	
12-Sep-06	7	6	19	21	25	17	11	12	14	28	37	44	47	A	48	49	49	48	42	40	36	32	31	35			30.3	49.4	
13-Sep-06	36	31	26	20	18	28	21	26	26	28	30	33	A	39	39	34	31	29	30	26	25	25	20	14			27.7	39.2	
14-Sep-06	16	19	18	14	11	8	2	7	4	8	10	A	18	22	27	27	24	19	24	22	20	17	17	15			16.0	27.0	
15-Sep-06	13	12	9	8	7	8	16	17	17	15	A	12	11	10	11	11	11	11	12	13	13	16	18	17			12.6	17.7	
16-Sep-06	18	17	16	15	14	16	16	14	15	A	18	18	17	19	18	20	20	19	19	19	19	20	19	20			17.6	20.0	
17-Sep-06	20	20	19	19	17	15	21	20	A	21	22	22	23	23	24	21	19	21	20	20	20	20	19	20			20.2	23.5	
18-Sep-06	19	18	13	12	14	8	4	A	13	22	24	27	29	29	29	28	28	26	23	22	21	18	15	13			19.8	28.9	
19-Sep-06	11	11	8	9	6	5	A	5	11	15	19	20	19	17	19	22	20	17	18	17	15	16	8	5			13.6	22.0	
20-Sep-06	4	4	3	2	2	A	1	2	3	7	10	20	23	25	24	24	22	15	14	14	10	19	26	24			13.1	26.0	
21-Sep-06	23	20	19	17	A	13	9	7	10	12	19	26	26	26	23	C	C	A	N	N	N	N	N	N			N	25.8	
22-Sep-06	N	N	N	N	N	N	N	23	25	26	25	25	25	26	25	25	26	24	20	20	21	16	17	11			N	25.6	
23-Sep-06	5	9	A	5	4	4	5	8	12	17	27	33	31	30	29	31	33	29	28	23	21	13	13	4			18.1	33.2	
24-Sep-06	3	A	10	9	9	8	8	9	11	13	16	22	28	29	30	33	33	29	25	15	2	1	2	3			15.2	33.1	
25-Sep-06	A	5	3	1	1	4	7	10	16	17	18	21	25	31	31	34	31	18	14	23	16	21	8	9			15.7	33.6	
26-Sep-06	8	9	A	6	10	9	7	13	19	19	22	25	28	30	31	33	33	29	24	25	25	24	23	23			20.7	33.1	
27-Sep-06	20	A	15	9	8	3	2	6	9	10	12	17	23	26	29	31	31	27	25	16	16	9	17	14			16.3	31.0	
28-Sep-06	A	24	25	24	25	21	15	10	11	14	11	18	23	28	30	30	25	17	18	14	14	4	3	A			18.3	30.2	
29-Sep-06	2	4	1	3	1	1	3	4	7	14	22	29	33	35	30	30	25	22	12	1	6	5	A	5			12.9	35.2	
30-Sep-06	4	11	6	13	15	17	18	24	28	31	38	43	44	43	43	42	36	36	38	31	26	A	19	28			27.6	43.8	
Hourly Avg	16.8	17.2	15.9	14.3	13.9	12.4	11.3	13.9	17.9	23.1	27.7	32.2	34.4	35.5	35.5	36.3	35.2	32.7	28.1	23.9	22.2	21.2	19.6	18.1					
Hourly Max	41.8	40.9	33.5	31.9	32.4	28.0	30.5	31.6	36.6	42.5	47.3	49.2	54.6	58.2	55.7	56.2	55.2	60.2	48.6	42.1	44.6	37.4	37.8	43.2					

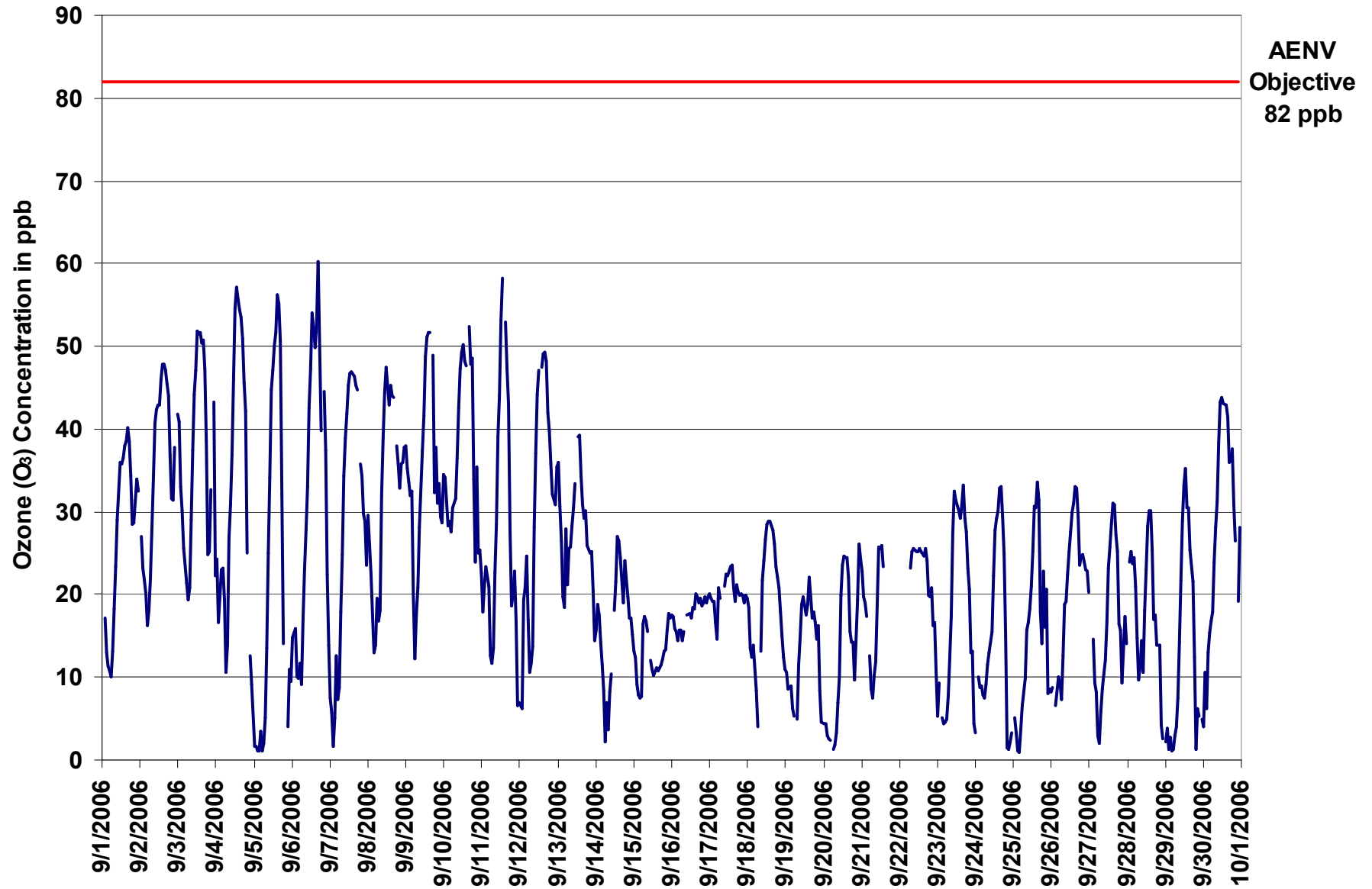


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

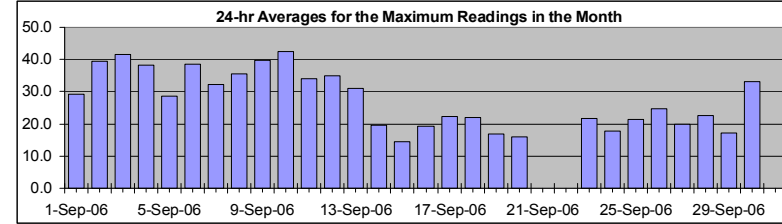
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

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

Summary

Maximum 1-hr Value:	64.0	ppb	6-Sep	17:00 18:00
Maximum 24-hr Value:	42.4	ppb	10-Sep	



AIC Time:	32 hrs	Operational Time:	673 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	98.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.9	52.4	36.0	25.9	17.6	6.3	2.3	27.5 ppb	25.9 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-Sep-06	17	A	20	17	14	14	13	16	21	26	34	38	38	38	40	41	42	41	39	31	31	34	35	34	29.2	42.1	
2-Sep-06	A	32	31	28	27	24	28	29	40	44	44	45	46	48	49	50	50	49	46	46	36	36	42	A	39.6	50.3	
3-Sep-06	44	43	41	34	28	24	21	26	36	42	47	50	54	54	54	53	52	52	47	36	32	39	A	47	41.6	54.3	
4-Sep-06	46	38	21	28	25	23	18	22	29	34	43	51	57	59	57	57	56	53	48	44	38	A	19	15	38.4	58.9	
5-Sep-06	3	6	3	2	10	2	4	9	20	36	43	49	50	55	56	59	60	59	52	34	A	14	17	19	28.7	60.0	
6-Sep-06	24	26	24	23	14	16	12	22	26	31	38	51	55	58	58	57	64	57	A	55	52	47	20	20	38.5	64.0	
7-Sep-06	20	16	7	18	22	13	20	20	29	37	41	44	47	49	49	49	47	46	A	37	36	32	31	29	32.1	48.7	
8-Sep-06	32	30	27	21	19	18	23	23	28	38	41	48	50	47	48	48	48	A	41	39	35	39	39	39	35.7	49.5	
9-Sep-06	39	39	36	36	37	31	17	19	24	34	40	45	52	53	54	55	A	55	50	46	39	41	35	34	39.7	54.9	
10-Sep-06	40	38	36	33	32	31	34	34	39	48	51	52	52	52	53	A	56	50	51	47	42	44	33	29	42.4	55.9	
11-Sep-06	28	22	25	27	25	17	17	20	25	35	47	52	58	60	A	55	52	47	41	35	37	27	21	13	34.2	60.0	
12-Sep-06	15	22	27	29	28	26	16	15	18	36	41	47	49	A	49	51	51	51	47	42	37	36	33	38	35.0	51.3	
13-Sep-06	37	38	30	23	26	30	26	28	28	30	34	35	A	42	42	41	33	31	32	30	28	27	26	20	31.1	41.8	
14-Sep-06	19	21	20	17	13	13	6	12	6	12	13	A	24	26	32	29	30	26	27	24	22	19	19	18	19.4	31.7	
15-Sep-06	15	14	12	10	9	9	19	20	19	17	A	15	12	12	12	12	13	14	15	15	19	19	19	19	14.5	19.9	
16-Sep-06	19	19	17	18	17	18	18	18	18	A	19	20	19	20	20	21	21	20	21	20	20	21	21	22	22	19.4	21.6
17-Sep-06	22	21	20	20	20	21	22	21	A	23	25	24	25	25	25	25	23	24	22	21	21	22	21	22	22.3	25.0	
18-Sep-06	21	20	16	16	17	13	6	A	20	24	26	28	31	30	30	30	29	28	25	23	23	20	17	14	22.1	30.7	
19-Sep-06	12	12	12	10	8	8	A	8	15	17	23	24	22	23	22	25	23	21	21	21	17	19	16	9	16.8	25.3	
20-Sep-06	5	6	4	3	3	A	2	4	5	10	14	24	27	29	27	27	26	20	17	17	15	26	27	29	15.9	28.7	
21-Sep-06	27	23	22	19	A	15	13	10	13	15	25	29	30	30	27	C	C	A	N	N	N	N	N	N	N	N	30.1
22-Sep-06	N	N	N	N	N	N	N	27	30	28	27	26	27	27	27	26	27	26	22	21	24	22	18	16	N	29.7	
23-Sep-06	10	12	A	12	7	6	7	9	16	23	32	35	34	33	32	34	35	33	30	26	24	18	17	16	21.8	35.3	
24-Sep-06	6	A	12	10	10	10	9	11	14	15	19	27	30	31	33	35	35	34	28	23	3	2	4	5	17.7	34.9	
25-Sep-06	A	9	8	2	2	9	8	14	18	18	22	25	32	35	36	40	39	34	30	28	24	24	20	14	21.3	39.7	
26-Sep-06	15	15	A	12	17	14	13	21	21	25	26	28	29	32	34	36	35	32	30	28	28	26	25	25	24.7	36.0	
27-Sep-06	22	A	17	15	11	6	4	9	10	12	15	24	26	28	31	33	33	31	30	21	20	16	20	21	19.8	32.9	
28-Sep-06	A	28	27	28	26	24	20	14	16	16	14	22	26	33	34	34	32	24	24	18	20	9	8	A	22.7	34.4	
29-Sep-06	6	9	5	6	2	3	6	6	10	20	26	34	38	40	36	35	32	25	19	2	15	12	A	9	17.2	40.2	
30-Sep-06	7	15	12	16	18	20	21	26	31	37	44	48	48	49	48	49	46	44	40	37	34	A	31	35	33.0	49.0	
Hourly Avg	21.2	22.0	19.7	18.4	17.4	16.5	15.2	17.7	21.5	27.0	31.4	35.9	37.4	38.5	38.5	39.5	38.6	36.9	33.9	29.1	27.5	25.8	24.5	22.7			
Hourly Max	45.6	43.0	40.6	35.9	36.6	31.3	33.6	34.2	40.5	48.4	50.5	52.4	57.9	60.0	57.9	58.7	60.0	64.0	56.7	47.0	54.8	52.3	47.2	46.5			

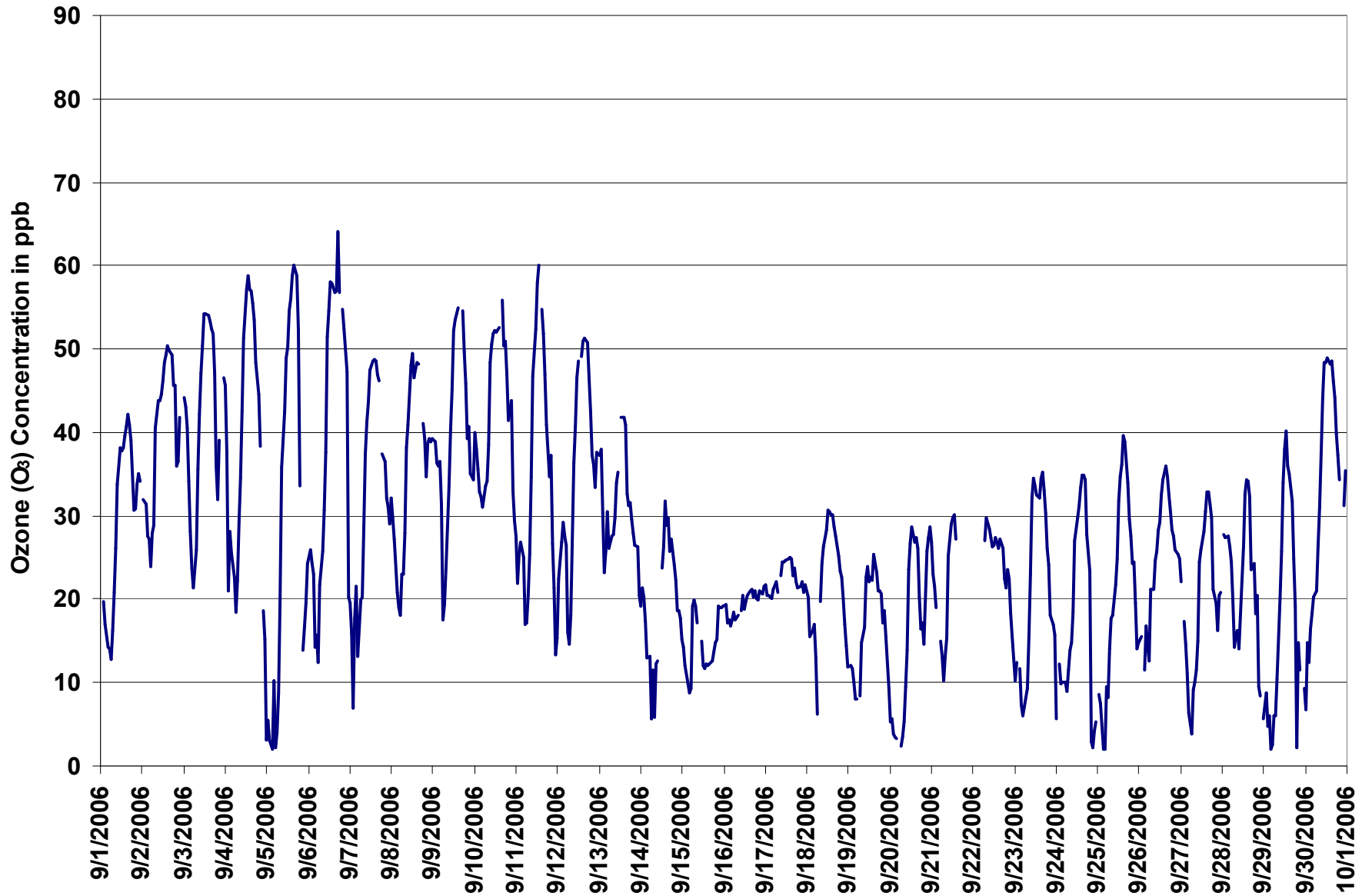
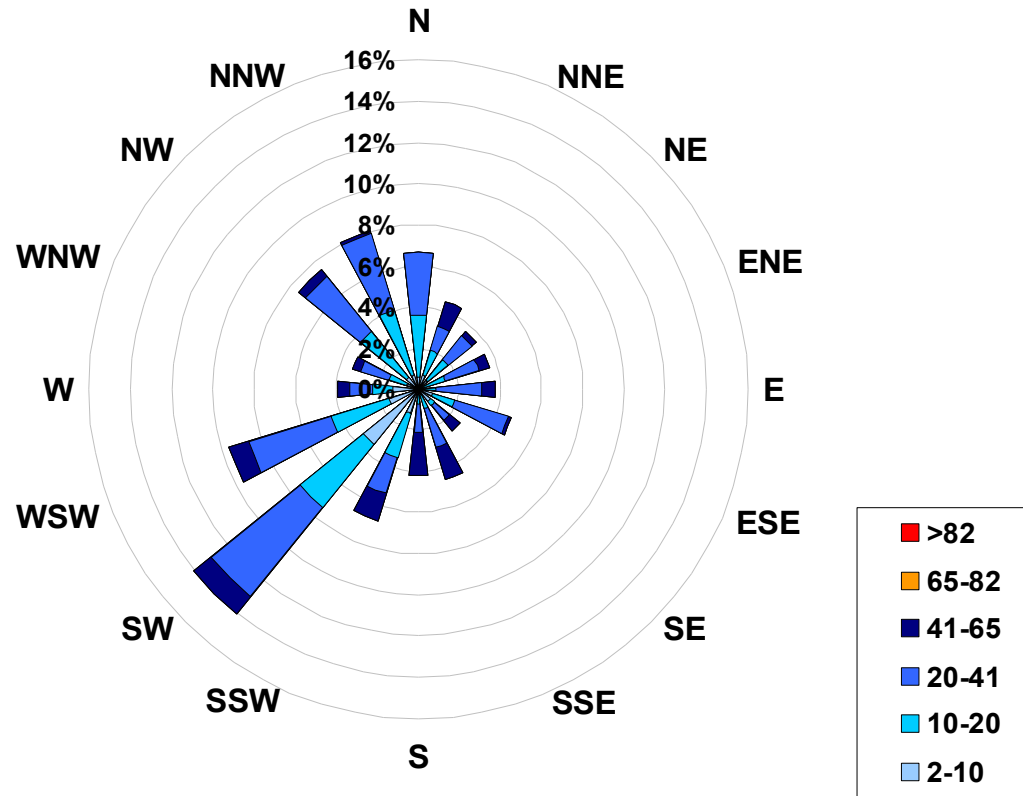


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	111
10	to	20	198
20	to	41	275
41	to	65	89
65	to	82	0
	>	82	0
Total Non-Zero Values			673



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

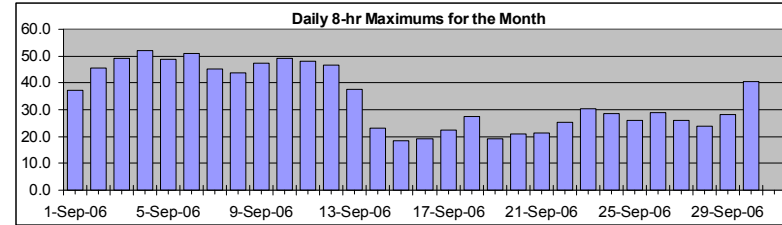
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

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

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	52.2 ppb	4-Sep	18:00 19:00



Percentile	99	95	75	50	25	5	1
	49.1	45.3	31.0	21.2	14.8	7.1	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																							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-Sep-06	24	24	22	20	18	16	14	13	13	15	16	19	22	25	29	32	35	37	37	36	35	35	34	33	37.2	
2-Sep-06	33	31	29	28	27	25	23	21	23	25	27	30	32	36	40	43	45	45	46	45	43	42	40	39	45.5	
3-Sep-06	38	38	36	35	34	33	30	29	27	27	28	31	34	38	42	45	48	49	49	46	43	40	39	37	49.3	
4-Sep-06	33	30	27	27	26	25	23	19	20	20	23	26	30	35	40	45	49	51	52	52	48	47	41	34	52.2	
5-Sep-06	27	20	13	7	4	4	3	2	4	7	11	16	22	28	34	40	46	49	48	45	44	38	32	25	48.7	
6-Sep-06	19	14	12	12	11	12	12	13	14	16	18	22	26	32	37	41	45	49	50	51	50	48	44	39	50.9	
7-Sep-06	32	25	19	17	13	10	8	8	11	14	19	23	27	32	37	41	43	44	45	44	43	40	38	35	45.3	
8-Sep-06	32	30	29	27	24	22	21	20	18	19	21	25	29	32	36	39	42	44	44	42	40	39	38	37	43.8	
9-Sep-06	36	36	36	35	35	33	30	28	25	25	25	26	28	32	37	41	44	47	47	46	44	41	38	35	47.3	
10-Sep-06	35	33	33	31	31	30	30	31	31	32	34	37	39	42	44	46	48	49	49	47	43	41	38	37	49.1	
11-Sep-06	33	29	26	24	24	21	19	18	18	19	22	24	28	34	37	43	46	48	47	43	38	33	31	25	48.2	
12-Sep-06	20	16	15	15	16	15	14	15	15	18	20	23	26	27	33	38	43	46	47	46	45	43	41	39	46.8	
13-Sep-06	37	35	33	31	29	28	27	26	24	24	25	26	28	29	32	33	34	34	34	33	32	30	28	25	37.5	
14-Sep-06	23	22	20	19	17	15	13	12	10	9	8	7	8	10	14	16	19	21	23	23	23	22	21	20	23.3	
15-Sep-06	18	18	16	14	12	11	11	11	12	12	13	13	14	14	13	12	12	11	11	11	12	12	13	14	18.4	
16-Sep-06	15	16	16	16	16	16	16	16	16	15	16	16	16	17	17	18	18	19	19	19	19	19	19	19	19.3	
17-Sep-06	19	19	19	19	19	19	19	19	19	19	19	20	21	22	22	22	22	22	22	21	21	21	20	20	22.3	
18-Sep-06	20	20	19	18	17	16	14	13	12	12	14	16	18	21	25	25	27	27	27	27	26	24	23	21	27.4	
19-Sep-06	19	17	15	13	11	10	9	8	8	9	10	12	13	15	16	18	19	19	19	19	18	18	17	14	19.1	
20-Sep-06	12	11	9	7	6	4	3	3	3	4	7	10	11	14	17	19	21	21	20	19	18	18	18	18	21.1	
21-Sep-06	18	19	19	20	21	20	18	15	14	12	12	14	15	17	19	20	N	N	N	N	N	N	N	N	21.2	
22-Sep-06	N	N	N	N	N	N	N	N	N	N	N	N	N	25	25	25	25	25	24	24	23	22	21	19	25.3	
23-Sep-06	17	15	14	12	10	8	6	6	7	8	10	14	17	20	23	26	29	30	31	29	28	26	24	21	30.5	
24-Sep-06	17	15	13	10	9	8	7	8	9	10	10	12	14	17	20	23	25	28	29	28	25	21	18	14	28.7	
25-Sep-06	11	8	5	3	2	3	3	4	6	7	9	12	15	18	21	24	26	26	26	26	25	23	21	17	26.1	
26-Sep-06	15	13	13	11	10	8	8	9	10	12	13	16	18	20	23	26	28	29	29	29	29	28	27	26	29.1	
27-Sep-06	24	23	22	20	17	14	11	9	7	8	7	8	10	13	16	19	22	24	26	26	25	23	22	20	26.0	
28-Sep-06	18	17	17	18	20	21	21	20	19	18	16	16	15	16	18	21	22	23	24	24	23	22	19	16	13	23.7
29-Sep-06	10	8	6	4	3	2	2	2	3	4	7	10	14	18	22	25	27	28	27	24	20	17	15	11	28.4	
30-Sep-06	8	6	5	7	8	10	11	13	16	19	23	27	30	34	37	39	40	41	41	39	37	36	33	31	40.6	

Hourly Max	38.4	37.8	36.2	35.2	35.1	33.1	30.5	30.8	31.1	32.1	34.2	36.8	39.4	42.0	44.1	45.9	48.6	51.1	52.2	51.7	50.5	48.1	43.9	39.2
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PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

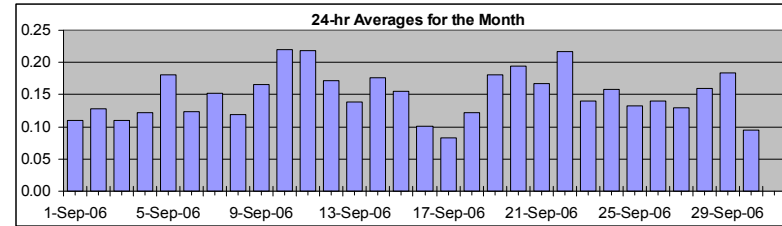
Carbon Monoxide (CO)

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

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	0.7 ppm	29-Sep	19:00 20:00
Maximum 24-hr Value:	0.2 ppm	10-Sep	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
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	0:00			
1-Sep-06	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	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.18
2-Sep-06	A	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	0.1	0.1	0.1	0.2	0.2	0.1	0.1	A	0.11	0.19	
3-Sep-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	0.1	A	0.1	0.1	0.11	0.21	
4-Sep-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.3	A	0.1	0.1	0.12	0.28	
5-Sep-06	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	A	0.3	0.1	0.1	0.1	0.18	0.50	
6-Sep-06	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.3	A	0.3	0.3	0.3	0.3	0.3	0.12	0.33	
7-Sep-06	0.3	0.3	0.3	0.2	0.2	0.3	0.3	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	0.1	0.1	0.15	0.33	
8-Sep-06	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.18	
9-Sep-06	0.1	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	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.17	0.31	
10-Sep-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	A	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.22	0.31	
11-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.2	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.22	0.46	
12-Sep-06	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.17	0.27	
13-Sep-06	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	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.14	0.22	
14-Sep-06	0.1	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.2	A	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18	0.30	
15-Sep-06	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	0.25	
16-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.12	
17-Sep-06	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.10	
18-Sep-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.12	0.27	
19-Sep-06	0.1	0.1	0.1	0.1	0.2	0.2	A	0.4	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.40	
20-Sep-06	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.19	0.26	
21-Sep-06	0.1	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.17	0.23	
22-Sep-06	0.1	0.1	A	0.1	0.1	0.1	0.1	C	C	C	A	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.22	0.35	
23-Sep-06	0.2	0.2	A	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	0.2	0.2	0.2	0.2	0.14	0.22	
24-Sep-06	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.2	0.1	0.16	0.36	
25-Sep-06	A	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	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.13	0.19	
26-Sep-06	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.23	
27-Sep-06	0.1	A	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	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.30	
28-Sep-06	A	0.1	0.1	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	0.2	0.2	0.2	0.2	0.2	0.4	0.3	A	0.16	0.36	
29-Sep-06	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.7	0.3	0.2	A	0.2	0.18	0.67	
30-Sep-06	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.1	0.10	0.17		
Hourly Avg	0.14	0.14	0.14	0.13	0.14	0.16	0.20	0.19	0.16	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.15	0.19	0.21	0.18	0.17	0.15	0.14				
Hourly Max	0.30	0.28	0.26	0.24	0.22	0.26	0.36	0.40	0.30	0.22	0.21	0.19	0.21	0.35	0.34	0.30	0.32	0.29	0.33	0.67	0.36	0.36	0.32	0.30				

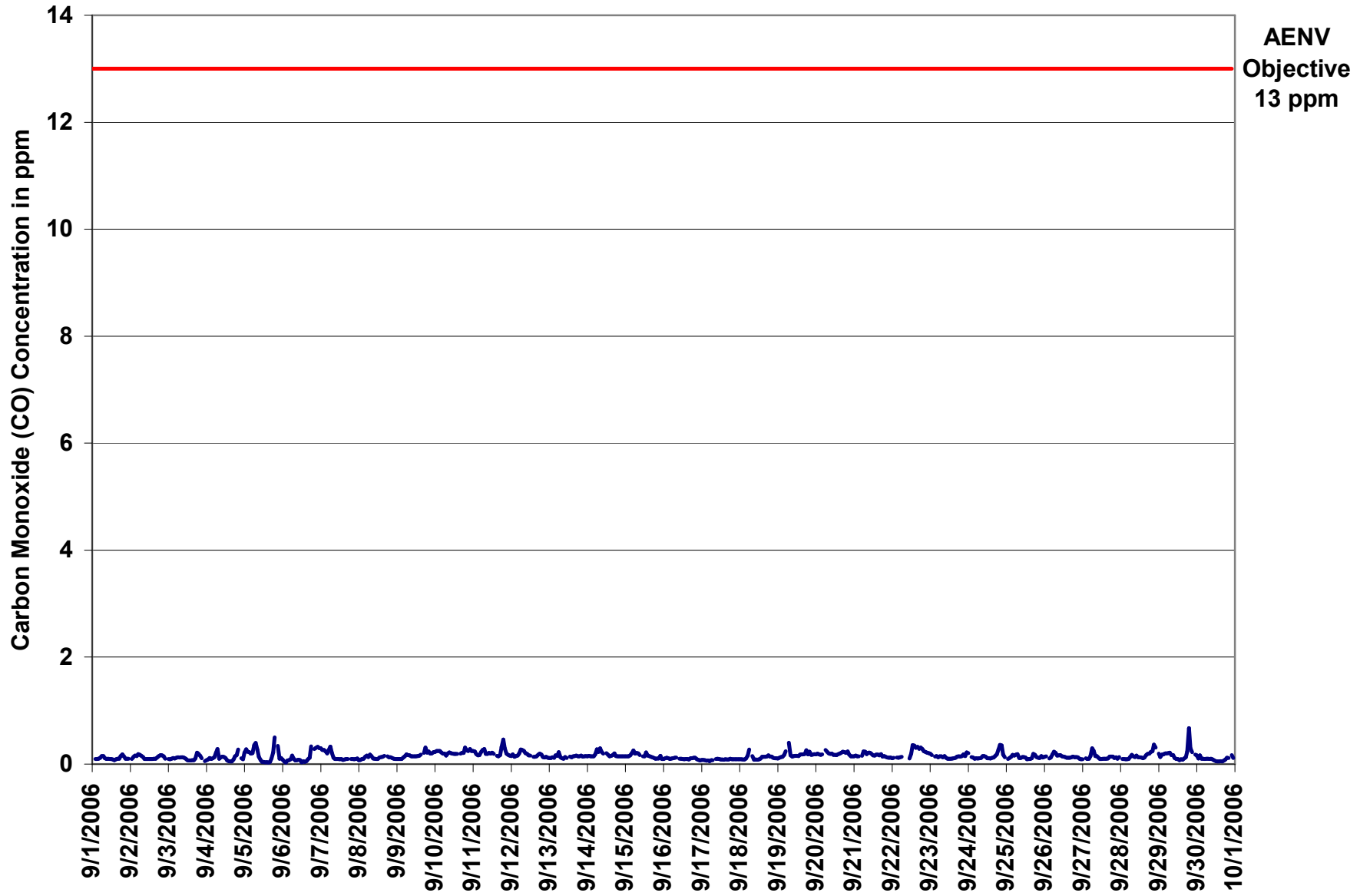


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

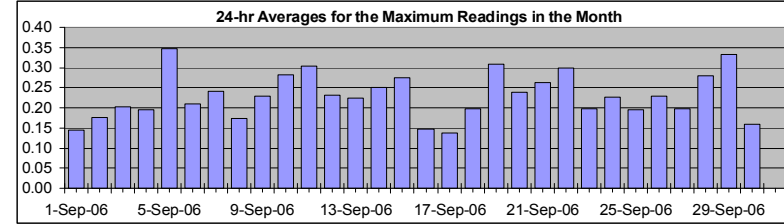
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

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

Summary

Maximum 1-hr Value:	1.5	ppm	5-Sep	19:00 20:00
Maximum 24-hr Value:	0.3	ppm	5-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.5	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Sep-06	0.1	A	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	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.14	0.25	
2-Sep-06	A	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.1	A	0.18	0.30	
3-Sep-06	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.3	0.2	0.2	A	0.1	0.1	0.20	1.19	
4-Sep-06	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	A	0.1	0.1	0.1	0.20	0.54	
5-Sep-06	0.4	0.8	0.4	0.3	0.3	0.3	0.5	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	1.5	A	0.8	0.2	0.2	0.1	0.35	1.46	
6-Sep-06	0.2	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.5	A	0.4	0.6	0.4	0.4	0.21	0.58	
7-Sep-06	0.3	0.4	0.3	0.3	0.2	0.4	0.9	0.4	0.2	0.1	0.1	0.1	0.1	0.4	0.2	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.24	0.91	
8-Sep-06	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	A	0.2	0.2	0.2	0.1	0.1	0.1	0.17	0.34	
9-Sep-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.4	0.3	0.3	0.3	0.2	0.3	0.23	0.52	
10-Sep-06	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	A	0.4	0.2	0.2	0.5	0.3	0.3	0.4	0.3	0.28	0.53
11-Sep-06	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.8	0.8	0.5	0.3	0.2	0.2	0.30	0.83	
12-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.2	0.3	A	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.1	0.23	0.43	
13-Sep-06	0.1	0.1	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.1	0.5	0.1	A	0.5	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.22	0.55	
14-Sep-06	0.2	0.5	0.2	0.1	0.1	0.5	0.5	0.3	0.3	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.25	0.54	
15-Sep-06	0.1	0.1	0.2	0.2	0.3	0.6	0.2	0.3	0.2	0.2	A	0.2	0.2	0.7	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.9	0.1	0.1	0.28	0.88	
16-Sep-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.15	0.24	
17-Sep-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.3	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.34	
18-Sep-06	0.1	0.1	0.1	0.1	0.1	0.3	1.1	A	0.3	0.1	0.2	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	0.20	1.07	
19-Sep-06	0.1	0.1	0.1	0.1	0.2	0.4	A	0.5	0.4	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	1.1	0.2	0.6	0.2	0.3	0.2	0.31	1.10	
20-Sep-06	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.2	0.1	0.1	0.24	0.41	
21-Sep-06	0.1	0.4	0.1	0.1	A	0.2	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.44	
22-Sep-06	0.1	0.2	A	0.2	0.2	0.2	0.3	C	C	C	A	0.2	0.5	0.4	0.5	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.2	0.30	0.49	
23-Sep-06	0.2	0.2	A	0.2	0.2	0.2	0.1	0.4	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.7	0.20	0.65	
24-Sep-06	0.3	A	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	0.2	0.3	0.5	0.6	0.5	0.3	0.2	0.23	0.60	
25-Sep-06	A	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.19	0.32	
26-Sep-06	0.2	0.2	A	0.2	0.2	0.3	0.7	0.6	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.23	0.74	
27-Sep-06	0.1	A	0.2	0.1	0.1	0.2	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.3	0.20	0.58	
28-Sep-06	A	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.3	0.3	0.6	0.7	0.5	A	0.28	0.72	
29-Sep-06	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	1.0	1.0	0.6	0.3	A	0.2	0.33	1.00	
30-Sep-06	0.2	0.1	0.3	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	A	0.3	0.2	0.16	0.30	
Hourly Avg	0.18	0.21	0.18	0.17	0.19	0.25	0.38	0.33	0.22	0.20	0.21	0.16	0.17	0.23	0.18	0.18	0.19	0.22	0.35	0.33	0.28	0.26	0.23	0.20			
Hourly Max	0.35	0.84	0.37	0.30	0.44	0.62	1.07	0.55	0.45	0.38	0.55	0.36	0.49	0.72	0.56	0.34	0.39	0.56	1.19	1.46	0.62	0.84	0.88	0.65			

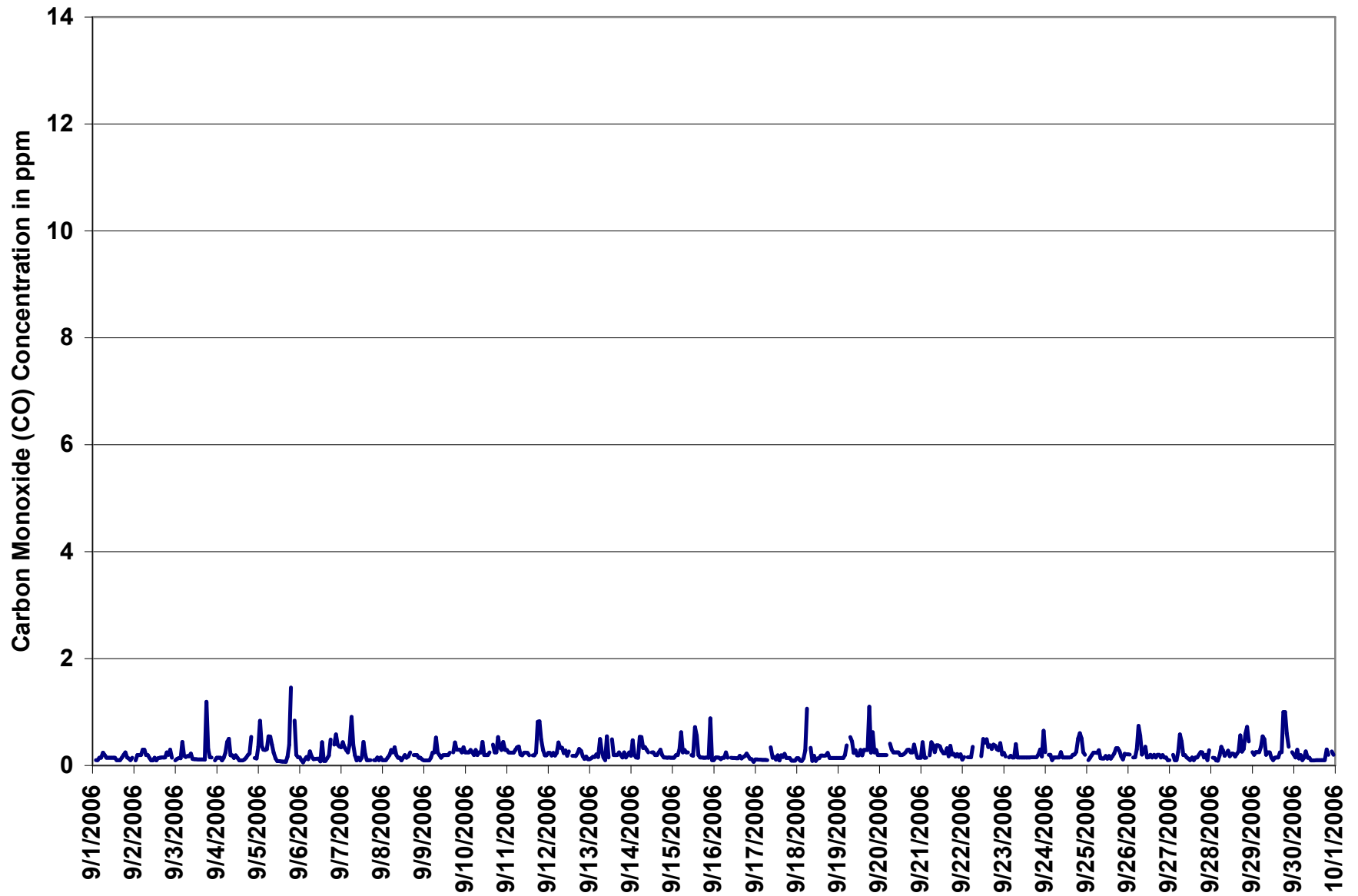
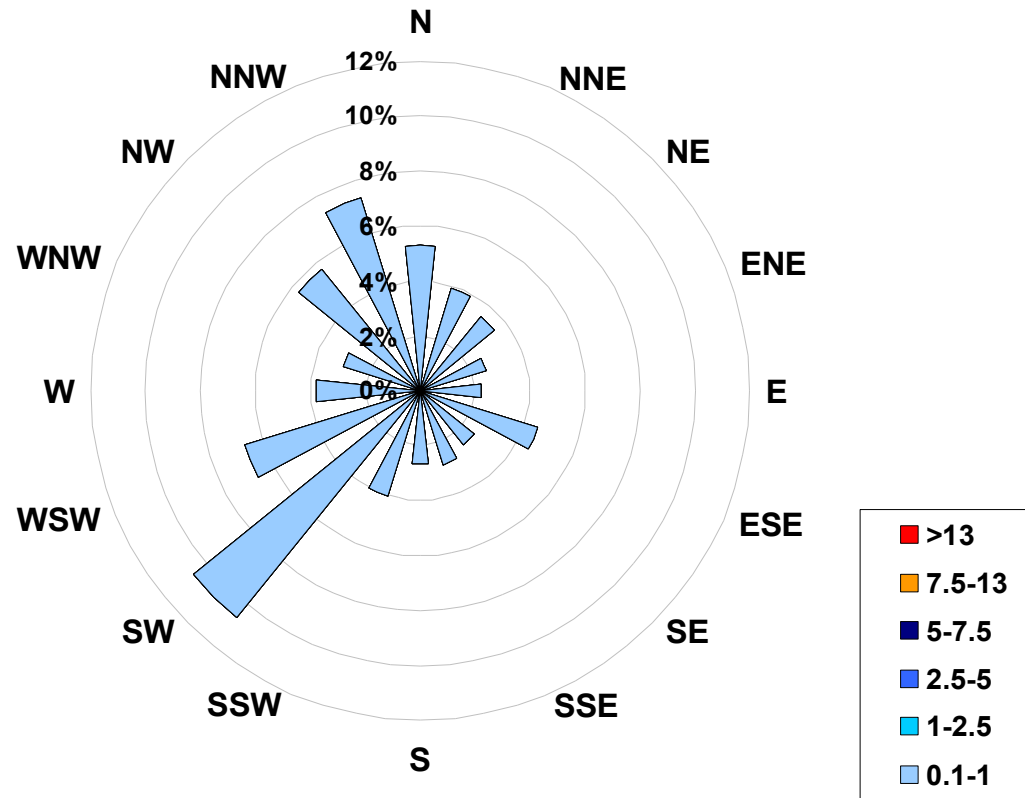


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of CO in ppm Range			Frequency (hrs)
0.1	<	1	684
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			684



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

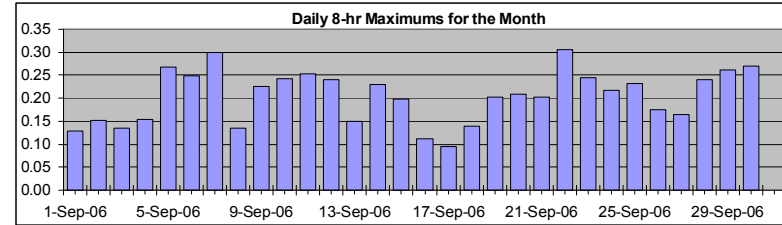
Carbon Monoxide (CO)

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

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.3	ppm	22-Sep	20:00	21:00		

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	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																							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-Sep-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
2-Sep-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	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	0.15
3-Sep-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
4-Sep-06	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
5-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.27
6-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.25
7-Sep-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.30
8-Sep-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	0.14
9-Sep-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
10-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
11-Sep-06	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
12-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
13-Sep-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	0.15
14-Sep-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
15-Sep-06	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
16-Sep-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
17-Sep-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
18-Sep-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	0.14
19-Sep-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	0.20
20-Sep-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
21-Sep-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	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.20
22-Sep-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	N	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.31
23-Sep-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	0.2	0.24
24-Sep-06	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.22
25-Sep-06	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23
26-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
27-Sep-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	0.16
28-Sep-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	0.2	0.2	0.24
29-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.26
30-Sep-06	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.27

Hourly Max	0.28	0.30	0.29	0.28	0.27	0.27	0.27	0.26	0.27	0.25	0.23	0.22	0.23	0.23	0.21	0.20	0.20	0.27	0.28	0.30	0.31	0.29	0.27	0.26
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PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

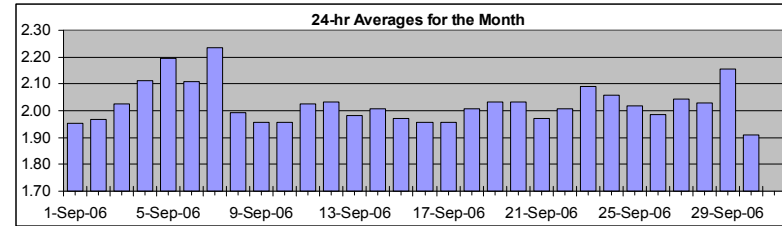
Total Hydrocarbons (THC)

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

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

Maximum 1-hr Average:	2.8	ppm	7-Sep	3:00 4:00
Maximum 24-hr Value:	2.2	ppm	7-Sep	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.3	2.1	2.0	1.9	1.9	1.9	2.0 ppm	2.0 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								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	23:00	
1-Sep-06	2.0	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.02
2-Sep-06	A	1.9	2.0	2.0	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	A	1.97	2.19		
3-Sep-06	1.9	1.9	2.0	2.3	2.2	2.2	2.3	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	A	A	1.9	2.03	2.27		
4-Sep-06	2.0	2.0	2.3	2.3	2.3	2.4	2.4	2.6	2.0	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	A	2.1	2.0	2.11	2.57			
5-Sep-06	2.2	2.3	2.4	2.7	2.6	2.8	2.5	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.2	A	2.3	2.1	2.2	2.20	2.79			
6-Sep-06	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	A	2.3	2.4	2.4	2.5	2.11	2.48			
7-Sep-06	2.6	2.6	2.6	2.8	2.7	2.8	2.7	2.4	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.1	2.0	2.1	2.2	2.24	2.80			
8-Sep-06	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.99	2.26			
9-Sep-06	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	1.9	1.9	1.9	2.0	1.96	2.17			
10-Sep-06	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.2	1.96	2.18			
11-Sep-06	2.2	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.2	2.1	2.0	2.0	2.1	2.03	2.23			
12-Sep-06	2.0	2.3	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.2	2.1	2.0	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.03	2.31			
13-Sep-06	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	A	A	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.98	2.07			
14-Sep-06	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	A	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.13			
15-Sep-06	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.97	2.09			
16-Sep-06	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.96	1.99			
17-Sep-06	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	A	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.96	2.01			
18-Sep-06	2.0	2.0	2.1	2.1	2.0	2.1	2.1	A	2.1	2.0	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.01	2.12			
19-Sep-06	2.0	2.0	2.0	2.0	2.0	2.1	A	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.03	2.25			
20-Sep-06	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.03	2.21			
21-Sep-06	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.0	C	C	A	1.9	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.97	2.15				
22-Sep-06	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.2	2.01	2.17			
23-Sep-06	2.2	2.2	2.1	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.09	2.28			
24-Sep-06	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.3	2.2	2.1	2.1	2.06	2.30			
25-Sep-06	2.1	2.0	2.1	2.3	2.3	2.1	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.9	1.9	A	A	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.02	2.35			
26-Sep-06	2.2	2.2	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	1.9	1.9	1.99	2.23			
27-Sep-06	1.9	A	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	1.9	2.0	2.04	2.19			
28-Sep-06	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.1	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.5	A	2.03	2.50			
29-Sep-06	2.3	2.3	2.4	2.3	2.4	2.4	2.3	2.3	2.2	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.2	2.2	A	2.1	2.15	2.41				
30-Sep-06	2.1	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	A	2.0	1.91	2.09			
Hourly Avg	2.06	2.08	2.08	2.11	2.13	2.12	2.12	2.10	2.06	2.03	2.01	1.97	1.95	1.93	1.93	1.93	1.93	1.93	1.94	1.98	2.02	2.02	2.04	2.03	2.04	2.04				
Hourly Max	2.56	2.65	2.63	2.80	2.72	2.79	2.66	2.57	2.31	2.18	2.20	2.08	2.03	2.00	2.00	2.00	2.02	2.03	2.07	2.33	2.30	2.40	2.50	2.48	2.48					

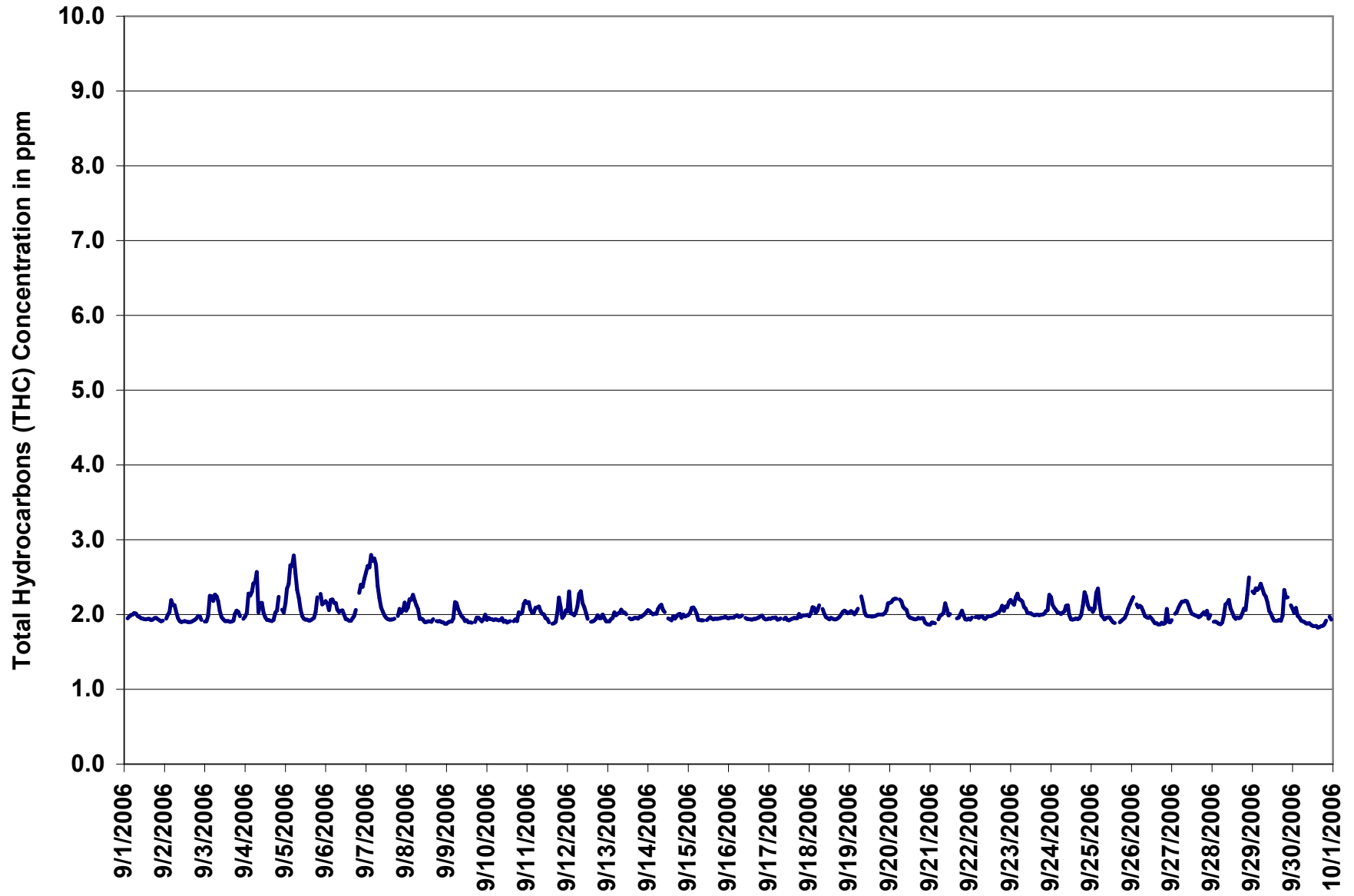


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

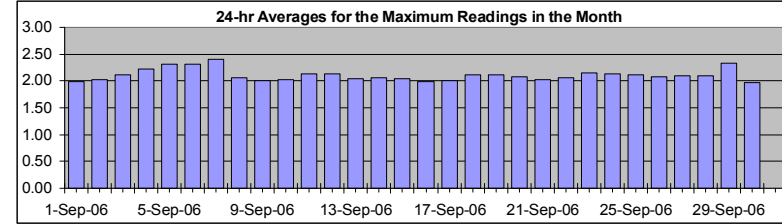
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

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

Summary

Maximum 1-hr Value:	4.2	ppm	6-Sep	21:00 22:00
Maximum 24-hr Value:	2.4	ppm	7-Sep	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	2.5	2.2	2.0	2.0	1.9	1.9	2.1 ppm	2.0 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-06	2.0	A	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	2.0	1.98	2.05	
2-Sep-06	A	2.0	2.1	2.2	2.5	2.3	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	A	2.03	2.45	
3-Sep-06	1.9	1.9	2.1	2.4	2.4	2.2	2.3	2.4	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.3	2.2	2.1	2.0	A	2.0	2.11	2.44	
4-Sep-06	2.0	2.1	2.5	2.4	2.4	2.5	2.6	2.8	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	2.0	2.1	2.1	2.5	A	2.1	2.22	2.85	
5-Sep-06	2.3	2.5	2.5	2.8	2.8	3.0	2.8	2.4	2.3	2.2	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.2	2.4	A	2.5	2.2	2.3	2.30	3.02	
6-Sep-06	2.3	2.3	2.1	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.2	1.9	1.9	2.0	2.2	A	3.5	4.2	2.4	2.7	2.32	4.19	
7-Sep-06	2.8	3.3	2.8	3.6	3.0	3.2	2.9	2.5	2.3	2.2	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.2	2.1	2.1	2.3	2.41	3.60
8-Sep-06	2.2	2.2	2.6	2.3	2.5	2.2	2.2	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	2.07	2.59
9-Sep-06	1.9	1.9	1.9	1.9	2.0	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	1.9	2.0	1.9	A	1.9	2.0	2.0	2.0	2.0	2.1	2.01	2.29	
10-Sep-06	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	A	2.0	2.0	1.9	2.1	2.2	2.2	2.3	2.02	2.26	
11-Sep-06	2.3	2.3	2.2	2.0	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.0	2.0	1.9	A	1.9	1.9	2.0	2.2	2.4	2.4	2.0	2.1	2.5	2.13	2.51
12-Sep-06	2.5	2.6	2.1	2.1	2.0	2.1	2.2	2.3	2.4	2.3	2.1	2.1	2.0	A	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.1	2.0	1.9	2.13	2.56
13-Sep-06	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.04	2.22
14-Sep-06	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.1	2.1	A	2.0	2.0	1.9	2.1	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.06	2.22
15-Sep-06	2.1	2.1	2.1	2.2	2.2	2.3	2.0	1.9	2.0	2.0	A	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.05	2.28
16-Sep-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.04
17-Sep-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.00	2.05
18-Sep-06	2.0	2.1	2.9	2.8	2.1	2.1	2.3	A	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.12	2.89
19-Sep-06	2.1	2.1	2.1	2.0	2.1	2.2	A	2.3	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.11	2.37
20-Sep-06	2.2	2.2	2.2	2.2	2.3	A	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.07	2.26
21-Sep-06	1.9	1.9	2.0	1.9	A	2.0	2.1	2.1	2.1	2.2	2.2	2.0	2.0	C	C	A	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.03	2.20	
22-Sep-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.07	2.23
23-Sep-06	2.3	2.2	2.2	2.3	2.4	2.2	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.5	2.15	2.51
24-Sep-06	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.4	2.4	2.2	2.1	2.13	2.44	
25-Sep-06	2.2	2.1	2.2	3.0	2.5	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	A	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.12	3.04	
26-Sep-06	2.2	2.4	A	2.2	2.2	2.2	2.3	2.1	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.8	1.9	1.9	2.07	2.75
27-Sep-06	2.0	A	2.1	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.09	2.26	
28-Sep-06	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.2	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.5	2.6	A	2.09	2.63	
29-Sep-06	2.4	2.4	2.5	2.5	2.6	2.7	2.5	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.0	2.7	A	2.3	2.33	2.99
30-Sep-06	2.1	2.1	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	A	2.1	2.0	1.97	2.26
Hourly Avg	2.14	2.18	2.20	2.25	2.22	2.22	2.21	2.18	2.13	2.09	2.07	2.01	1.98	1.98	1.96	1.97	1.97	1.99	2.06	2.12	2.16	2.23	2.10	2.13		
Hourly Max	2.82	3.28	2.89	3.60	2.97	3.22	2.90	2.85	2.44	2.27	2.29	2.14	2.06	2.18	2.07	2.12	2.10	2.08	2.38	2.89	3.48	4.19	2.63	2.73		

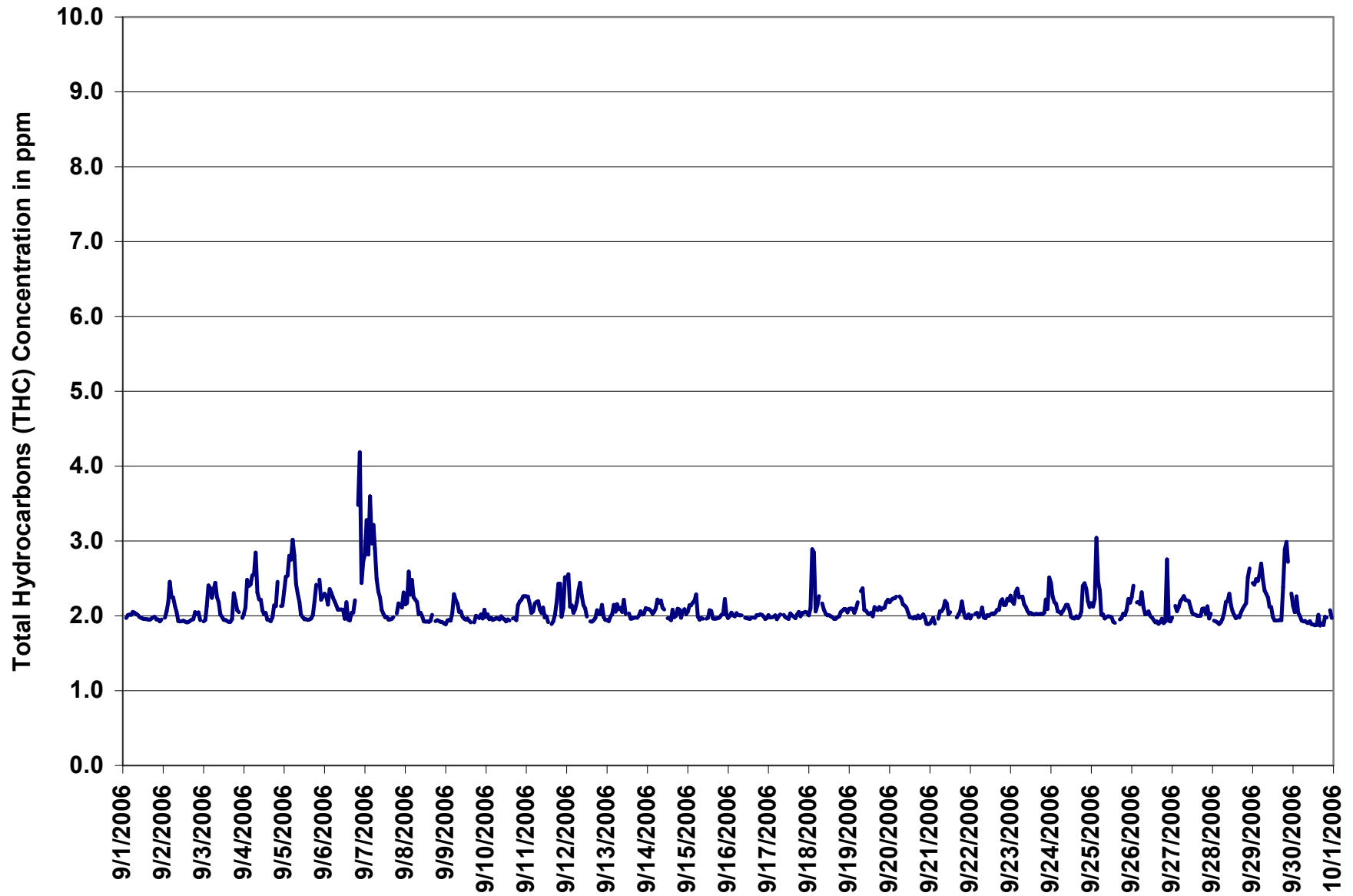
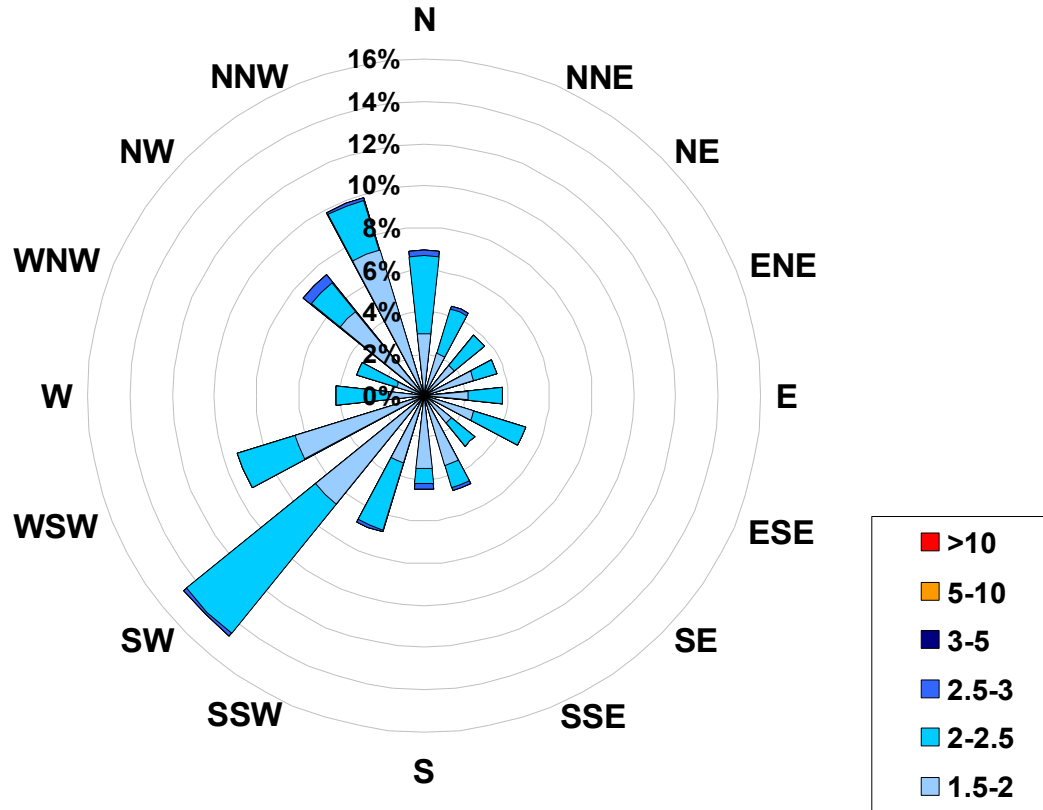


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		391
2	to 2.5		283
2.5	to 3		12
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			686



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

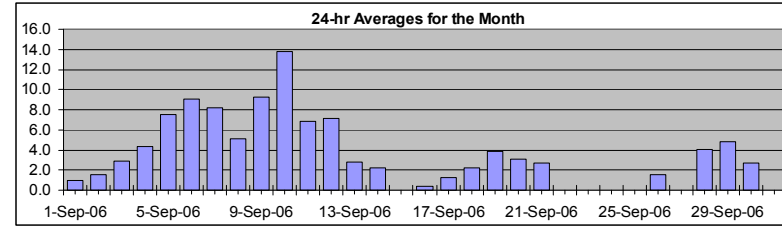
Particulate Matter (PM_{2.5})

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

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	27.3 $\mu\text{g}/\text{m}^3$ 6-Sep 22:00 23:00
Maximum 24-hr Value:	13.8 $\mu\text{g}/\text{m}^3$ 10-Sep

AIC Time:	0 hrs	Operational Time:	643 hrs							
Calibration Time:	5 hrs	AMD Operational Uptime:	90.0%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	20.9	15.0	5.7	2.9	0.6	0.0	0.0	4.2	3 $\mu\text{g}/\text{m}^3$	3.4 $\mu\text{g}/\text{m}^3$



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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	24:00
1-Sep-06	0:00	0	0	0	1	0	1	1	2	4	0	0	0	0	D	0	0	3	2	2	3	2	0	0	1	1.0	4.2	
2-Sep-06	0:00	0	1	3	1	1	2	1	3	0	2	1	0	2	1	1	2	0	0	2	6	5	0	1	1	1.5	5.6	
3-Sep-06	0:00	3	3	4	4	5	4	3	5	2	0	3	1	0	0	2	3	2	3	8	7	8	0	0	1	2.9	7.9	
4-Sep-06	0:00	5	5	8	5	4	3	10	7	1	4	3	1	0	0	0	0	0	6	5	5	10	8	7	7	4.3	10.1	
5-Sep-06	0:00	17	17	18	16	3	10	3	6	5	6	5	0	0	0	0	3	3	5	6	14	20	7	7	10	7.6	20.0	
6-Sep-06	0:00	7	3	7	9	2	0	4	8	11	12	13	0	0	1	1	4	4	8	14	21	19	21	27	22	9.1	27.3	
7-Sep-06	0:00	26	20	18	14	15	12	11	11	7	6	7	4	3	0	1	4	2	2	9	6	3	6	4	6	8.2	25.9	
8-Sep-06	0:00	0	4	5	4	8	4	4	5	6	2	2	0	7	5	4	7	8	7	9	8	5	6	7	5	5.1	8.9	
9-Sep-06	0:00	5	7	6	6	6	6	7	7	8	7	8	8	7	4	11	10	11	15	15	17	16	11	8	16	9.2	16.7	
10-Sep-06	0:00	21	27	27	22	19	16	15	15	18	16	0	4	3	5	8	3	17	12	14	17	14	14	14	11	13.8	27.1	
11-Sep-06	0:00	11	8	3	2	8	7	7	11	12	12	18	10	4	3	1	2	0	3	10	5	12	6	7	4	6.8	17.9	
12-Sep-06	0:00	7	8	3	6	11	15	16	14	16	11	10	8	6	5	3	4	5	6	7	3	0	2	5	2	7.2	16.2	
13-Sep-06	0:00	2	2	3	6	4	0	3	1	5	5	4	3	1	3	3	9	7	3	1	1	0	0	0	1	2.8	9.2	
14-Sep-06	0:00	0	0	0	1	2	2	4	5	4	6	8	7	4	2	0	1	1	3	1	0	0	1	1	1	2.2	7.9	
15-Sep-06	0:00	2	1	2	3	3	3	0	0	0	D	D	D	D	D	0	D	D	D	0	0	0	0	0	D	N	3.5	3.5
16-Sep-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	2	1	0	0	0.3	2.3	
17-Sep-06	0:00	0	0	0	0	0	2	3	3	1	1	2	1	1	1	0	1	2	2	2	4	3	0	0	0	1.2	3.9	
18-Sep-06	0:00	0	1	1	1	0	0	2	5	5	1	1	3	3	4	5	4	5	3	4	2	0	0	0	2	2.2	5.1	
19-Sep-06	0:00	1	2	3	1	2	2	3	7	5	4	2	4	5	4	2	4	6	5	3	4	6	4	6	7	3.9	7.2	
20-Sep-06	0:00	3	3	2	4	4	3	4	2	1	6	8	3	3	3	3	3	3	2	4	0	0	D	D	3	3.1	8.1	
21-Sep-06	0:00	0	0	0	0	0	0	0	1	5	8	6	2	2	C	C	9	4	4	2	3	3	3	3	4	2.7	9.4	
22-Sep-06	0:00	4	4	2	4	3	3	4	1	C	C	C	N	N	D	D	D	D	D	4	D	D	0	D	1	N	4.1	4.1
23-Sep-06	0:00	11	5	D	D	1	D	0	0	D	D	D	D	0	4	0	0	D	5	2	0	5	D	0	5	N	10.5	10.5
24-Sep-06	0:00	5	0	D	D	0	0	D	D	D	D	0	D	D	D	0	D	0	1	4	7	13	11	8	3	N	13.0	13.0
25-Sep-06	0:00	3	2	0	0	0	D	D	D	D	D	D	D	D	D	D	D	D	4	5	0	2	0	5	4	N	5.3	5.3
26-Sep-06	0:00	5	4	4	0	2	0	3	4	0	1	0	D	D	0	0	0	0	2	1	1	3	2	0	D	1.6	5.1	5.1
27-Sep-06	0:00	0	0	1	0	2	2	2	0	0	0	0	D	D	D	D	D	D	0	2	2	0	2	0	D	N	2.1	2.1
28-Sep-06	0:00	D	D	0	D	1	0	4	5	6	1	1	3	D	0	0	2	1	6	6	6	12	11	7	7	4.1	12.4	12.4
29-Sep-06	0:00	8	6	12	2	12	6	4	5	2	0	0	D	D	D	0	D	0	D	4	11	6	6	4	4	4.8	11.8	11.8
30-Sep-06	0:00	4	1	5	2	5	0	3	0	0	0	0	1	0	0	0	1	1	0	0	4	7	11	9	10	2.7	10.5	10.5
Hourly Avg		5.1	4.6	4.9	4.3	4.1	3.7	4.5	4.8	4.7	4.4	3.9	N	N	N	1.8	3.2	3.4	4.2	4.9	5.6	5.8	4.7	4.8	5.1			
Hourly Max		25.9	26.9	27.1	22.5	18.6	15.8	16.2	15.0	17.9	16.2	17.9	9.6	7.0	5.2	11.1	9.8	16.6	15.0	15.1	20.7	20.0	21.1	27.3	22.1			

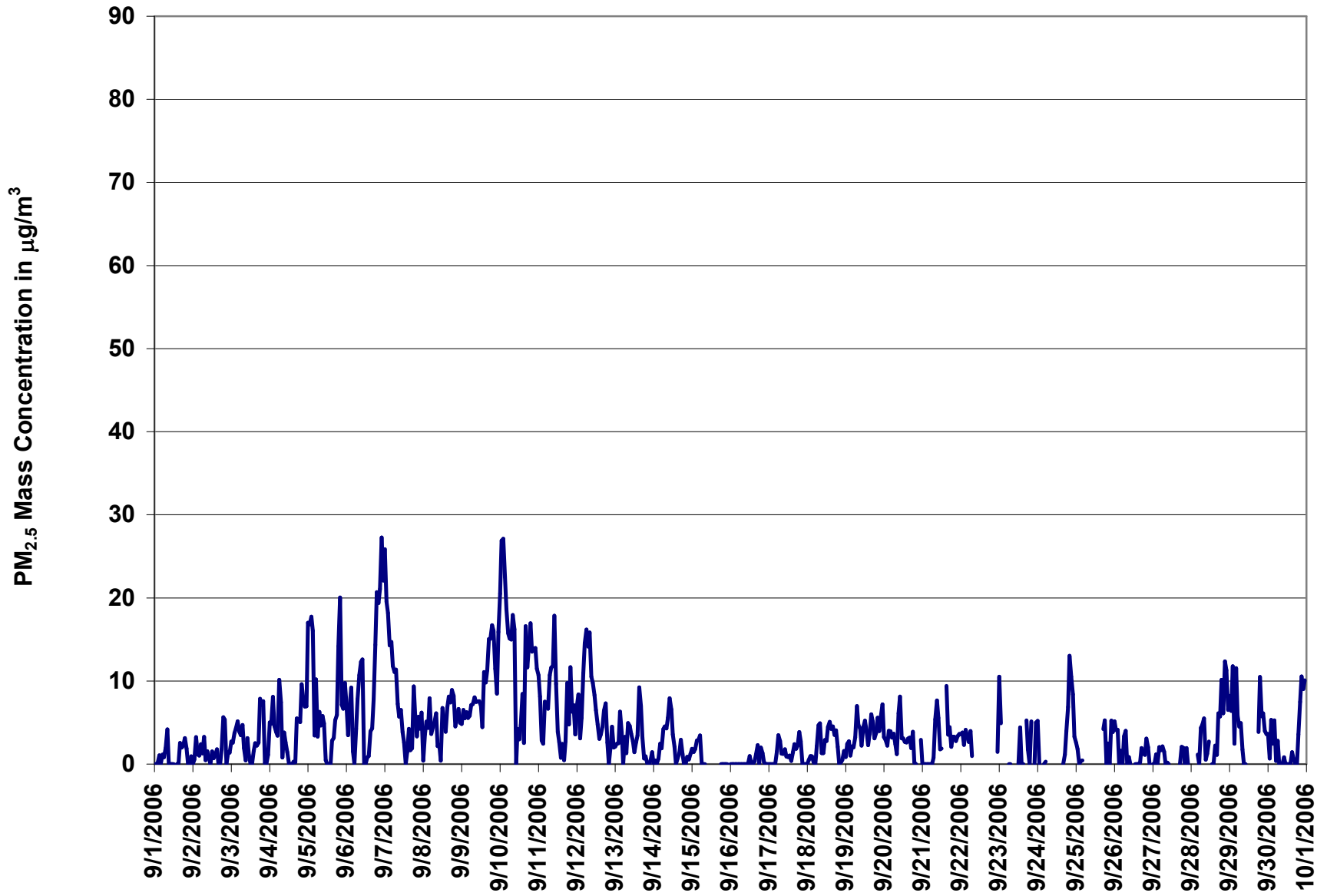


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

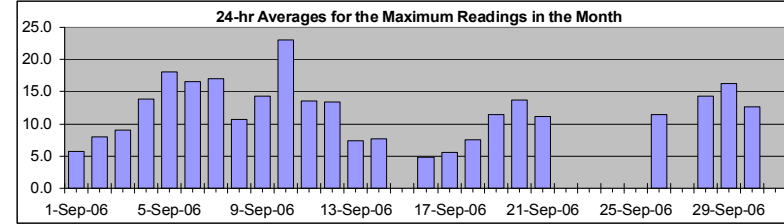
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	57.6	µg/m ³	5-Sep	20:00 21:00
Maximum 24-hr Value:	23.0	µg/m ³	10-Sep	



AIC Time:	0 hrs	Operational Time:	643 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	90.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	34.9	24.8	15.3	10.4	7.0	3.5	2.0	11.8	10 µg/m ³
									11.1 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-Sep-06	2	4	3	4	5	4	5	5	9	8	6	5	10	D	6	5	11	9	7	6	5	5	3	4	5.7	11.2
2-Sep-06	3	4	7	6	6	5	8	17	16	8	7	5	13	12	7	10	7	3	9	14	11	7	5	4	8.0	16.7
3-Sep-06	6	5	10	7	7	8	6	10	24	8	10	7	8	8	10	10	7	8	14	19	12	4	1	6	9.0	23.7
4-Sep-06	15	14	21	12	10	32	20	33	9	21	11	7	6	5	5	7	10	13	10	11	27	11	10	11	13.8	33.3
5-Sep-06	26	23	29	30	11	26	12	12	11	11	13	4	9	5	6	8	17	20	14	31	58	30	14	15	18.1	57.6
6-Sep-06	18	12	13	18	11	3	8	13	17	17	17	16	9	17	7	9	8	13	24	25	22	36	36	32	16.6	35.9
7-Sep-06	35	33	37	25	35	24	20	18	12	13	10	8	12	8	10	13	7	6	30	8	7	8	13	17	17.1	37.2
8-Sep-06	5	16	20	9	12	9	9	9	12	13	8	9	11	10	11	14	13	12	12	12	7	8	9	7	10.7	19.5
9-Sep-06	7	10	8	15	9	10	10	11	14	12	11	12	15	12	18	15	19	20	21	21	19	22	13	22	14.3	22.0
10-Sep-06	27	36	35	29	23	20	21	29	30	24	14	10	14	17	51	9	28	18	17	23	19	18	21	20	23.0	51.4
11-Sep-06	18	13	12	7	11	12	11	17	18	16	25	15	12	8	7	11	8	8	22	24	20	11	10	9	13.5	25.1
12-Sep-06	14	17	13	22	15	17	21	18	21	17	15	12	12	10	10	12	15	12	12	7	4	8	11	7	13.4	21.6
13-Sep-06	6	5	5	10	10	5	12	7	9	12	7	6	7	9	8	16	15	10	4	3	3	3	3	4	7.4	15.6
14-Sep-06	2	3	2	2	4	4	6	8	7	12	12	14	17	13	14	15	11	7	6	2	4	4	5	6	7.6	17.1
15-Sep-06	8	5	7	6	7	8	4	4	4	D	D	D	D	D	3	D	D	D	0	4	1	8	2	D	N	8.2
16-Sep-06	1	2	0	4	1	3	4	4	4	7	8	6	6	7	3	4	8	8	5	8	6	5	6	6	4.8	7.9
17-Sep-06	5	5	3	4	3	7	6	6	4	5	8	4	9	9	6	5	8	5	8	8	7	3	2	3	5.5	8.9
18-Sep-06	3	6	6	7	7	4	6	10	9	6	5	9	8	9	12	11	11	10	9	9	7	5	5	6	7.5	11.7
19-Sep-06	4	8	9	10	11	9	11	15	14	8	6	14	13	10	9	13	19	13	10	10	12	12	15	18	11.4	19.2
20-Sep-06	11	12	10	12	12	9	12	12	12	17	20	16	15	15	16	13	15	14	24	11	10	D	D	14	13.7	23.9
21-Sep-06	10	18	9	9	7	8	13	13	16	17	13	10	11	C	C	17	11	9	8	10	10	9	8	9	11.1	18.1
22-Sep-06	8	9	8	9	9	8	8	9	C	C	C	N	N	D	D	D	D	D	14	D	D	7	D	12	N	14.4
23-Sep-06	29	19	D	D	25	D	18	18	D	D	D	D	7	17	7	7	D	13	11	12	17	D	10	17	N	28.8
24-Sep-06	22	12	D	D	5	6	D	D	D	D	4	D	D	D	7	D	7	12	13	16	25	25	22	19	N	24.9
25-Sep-06	18	11	21	17	11	D	D	D	D	D	D	D	D	D	D	D	D	19	17	11	19	9	18	16	N	21.2
26-Sep-06	18	17	17	11	10	14	10	11	5	9	10	D	D	9	7	6	12	10	10	13	15	15	12	D	11.5	17.5
27-Sep-06	5	6	7	4	11	10	10	9	7	8	6	D	D	D	D	D	D	9	13	13	13	9	5	D	N	13.1
28-Sep-06	D	D	7	D	10	13	18	15	12	11	8	10	D	6	7	16	11	19	21	20	18	22	22	20	14.3	21.7
29-Sep-06	20	16	25	21	23	15	15	14	11	7	7	D	D	D	10	D	10	D	18	23	23	19	17	17	16.3	24.6
30-Sep-06	20	18	24	14	17	17	11	7	8	10	12	11	10	8	7	11	13	8	6	9	13	18	16	16	12.6	23.6
Hourly Avg	12.6	12.3	13.1	12.0	11.1	11.1	11.2	12.7	12.1	11.8	10.6	N	N	N	10.1	10.7	12.0	11.3	13.0	13.3	14.3	12.1	11.2	12.5		
Hourly Max	34.6	35.7	37.2	29.6	34.5	31.8	20.9	33.3	29.8	24.4	25.1	15.9	17.1	17.5	51.4	16.7	27.7	19.7	30.4	31.2	57.6	35.7	35.9	31.6		

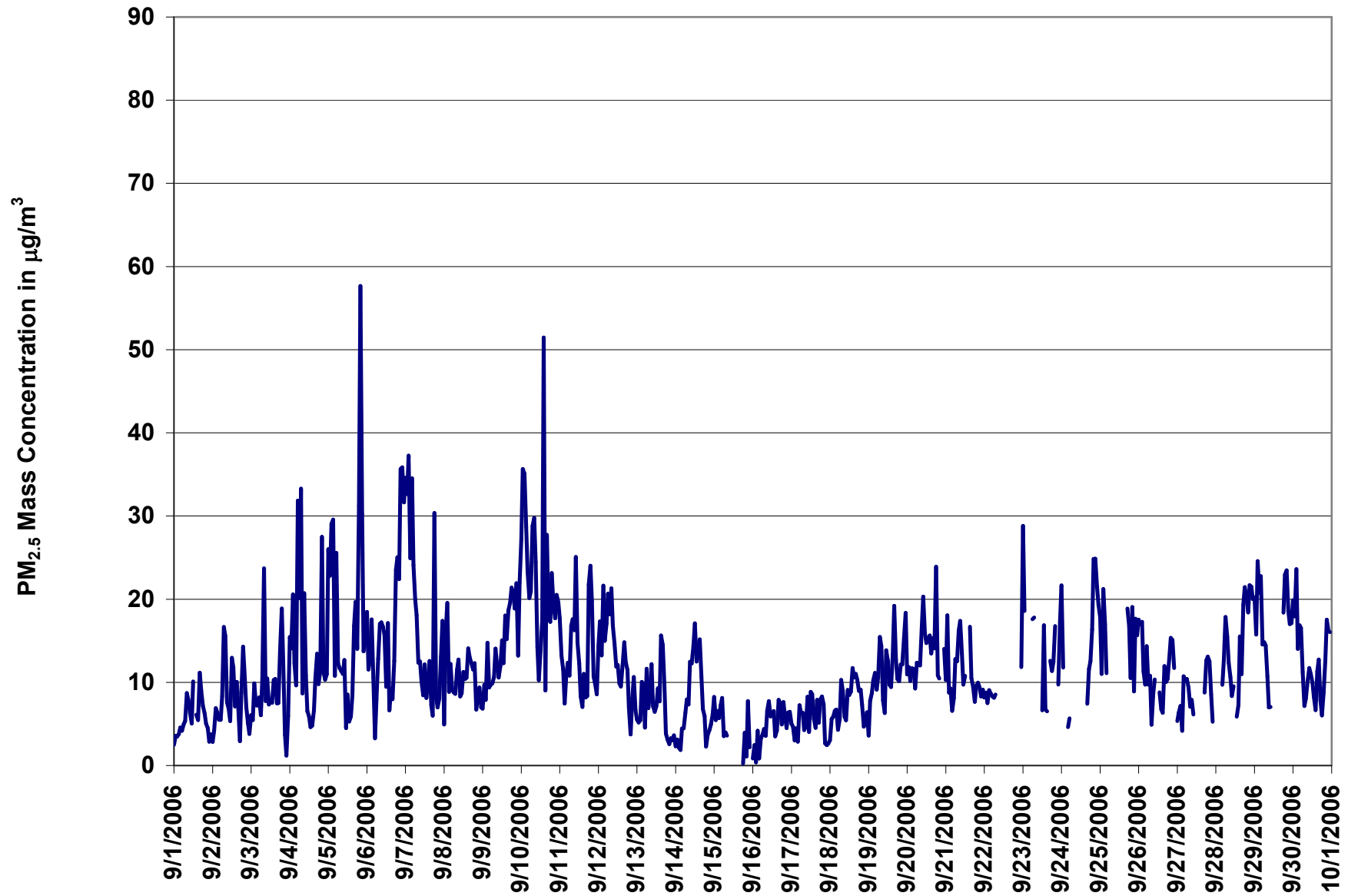
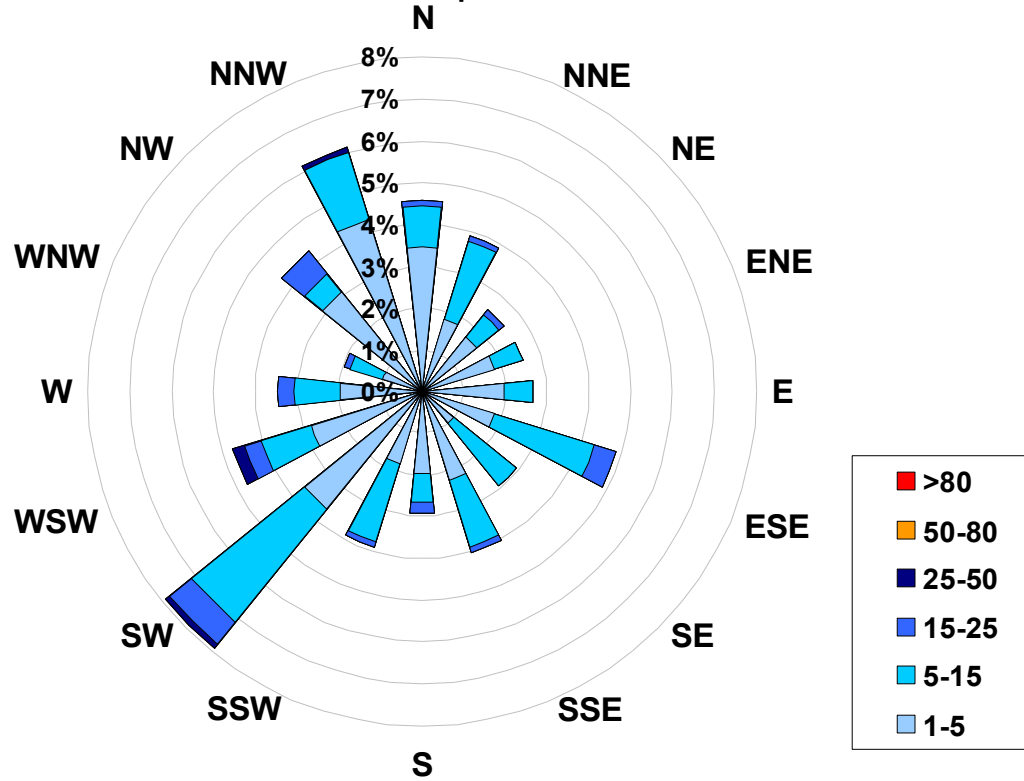


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 September 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	448	
5	to 15	163	
15	to 25	28	
25	to 50	4	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			643



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

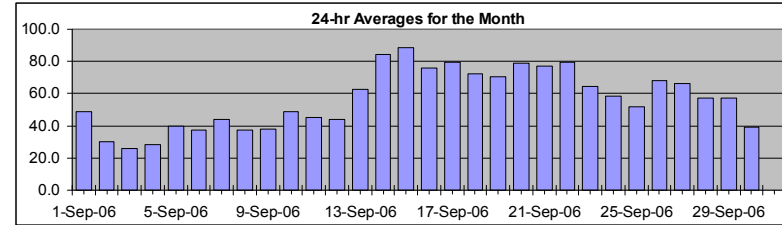
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	93.3	%	15-Sep	5:00 6:00
Maximum 24-hr Value:	88.7	%	15-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	91.6	88.7	77.1	59.0	38.8	15.5	9.0	56.7 %	59.0 %

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																							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-Sep-06	80	77	75	79	80	80	76	68	61	51	40	33	29	25	22	22	22	24	28	34	41	42	40	43	48.7	80.2	
2-Sep-06	43	45	53	57	58	62	54	42	33	25	22	17	16	14	13	13	12	10	13	19	29	28	23	24	30.1	62.3	
3-Sep-06	25	28	35	41	49	57	54	49	35	25	19	15	12	8	8	8	8	9	15	22	31	30	23	21	26.0	56.8	
4-Sep-06	25	32	42	42	47	53	51	49	37	29	23	18	14	10	9	8	8	9	14	17	26	34	42	47	28.6	53.0	
5-Sep-06	52	58	65	74	68	75	69	57	47	39	31	24	19	14	11	10	11	14	18	28	36	44	48	50	40.1	74.9	
6-Sep-06	53	54	54	63	63	56	55	49	44	40	34	24	17	15	13	13	13	15	20	26	31	38	48	58	37.3	63.2	
7-Sep-06	64	70	74	75	69	71	70	61	51	42	36	30	27	23	20	20	20	21	24	28	32	38	42	50	44.1	75.4	
8-Sep-06	45	48	50	54	58	59	58	55	46	36	27	20	21	20	18	19	20	23	29	37	40	40	39	39	37.5	58.7	
9-Sep-06	40	42	43	46	48	62	67	61	52	41	33	28	25	20	19	18	18	20	25	32	38	41	42	45	37.8	66.6	
10-Sep-06	43	45	53	56	56	59	57	52	57	52	42	35	32	29	34	28	34	42	46	55	59	63	70	72	48.8	71.8	
11-Sep-06	74	75	69	61	62	67	64	57	51	44	39	38	31	26	23	20	18	19	28	33	41	48	53	53	45.5	75.4	
12-Sep-06	55	60	53	52	49	54	62	62	53	44	39	35	32	30	29	27	28	30	36	41	41	44	50	49	43.9	61.7	
13-Sep-06	51	57	64	67	69	62	62	58	59	56	53	49	47	44	44	52	62	70	74	77	80	80	81	83	62.5	82.6	
14-Sep-06	80	79	80	82	83	84	84	84	81	80	82	84	82	84	83	85	86	88	88	88	89	89	89	90	90	84.4	89.9
15-Sep-06	89	89	90	91	92	93	92	90	90	90	89	88	87	88	87	87	84	85	85	86	86	89	89	89	88.7	93.3	
16-Sep-06	89	89	90	87	86	86	87	86	83	82	74	71	67	66	63	63	65	70	68	69	70	70	72	73	76.1	89.5	
17-Sep-06	73	74	73	73	73	75	83	88	88	88	88	85	81	78	76	74	73	73	74	78	86	85	84	83	79.4	88.4	
18-Sep-06	83	83	84	84	85	88	89	82	74	67	63	60	59	57	56	56	56	59	65	72	75	80	82	82	72.5	89.0	
19-Sep-06	83	83	82	84	86	86	85	76	72	67	58	53	54	57	54	52	54	60	63	68	72	75	78	84	70.3	85.9	
20-Sep-06	87	88	89	90	92	92	93	93	92	89	84	74	71	68	68	66	66	68	77	79	80	69	60	69	79.2	92.6	
21-Sep-06	76	78	77	77	77	76	76	75	76	76	70	63	60	64	68	77	82	82	83	90	90	89	88	87	77.3	90.2	
22-Sep-06	86	86	84	86	84	84	82	81	79	79	78	76	76	76	75	74	70	73	75	77	77	81	82	86	79.5	85.9	
23-Sep-06	89	89	90	91	91	91	90	85	81	72	60	49	43	40	37	32	30	36	43	48	53	59	66	76	64.2	91.0	
24-Sep-06	81	79	77	78	77	78	79	73	67	60	53	41	35	32	30	31	31	34	44	53	60	66	72	74	58.5	80.6	
25-Sep-06	78	80	82	84	86	84	79	70	63	57	50	45	37	29	24	22	20	27	31	33	39	38	48	47	52.0	85.5	
26-Sep-06	54	59	62	65	71	77	81	82	86	81	76	75	70	60	54	50	52	59	61	73	75	72	73	73	68.4	85.7	
27-Sep-06	79	82	84	86	86	87	87	82	77	70	62	54	49	47	46	43	42	45	54	61	68	72	69	62	66.4	87.4	
28-Sep-06	57	57	57	58	59	62	67	66	61	59	55	50	47	39	39	41	44	51	55	61	65	69	74	77	57.1	77.5	
29-Sep-06	80	83	85	83	82	84	83	82	75	63	53	43	38	30	29	26	27	29	36	44	49	55	60	62	57.4	84.8	
30-Sep-06	64	65	72	69	71	68	66	58	50	42	27	21	16	13	13	12	12	14	18	24	30	36	40	40	39.2	71.5	
Hourly Avg	65.9	67.8	69.5	71.1	71.8	73.7	73.3	69.0	64.0	58.1	51.8	46.6	43.1	40.3	38.8	38.3	39.0	42.0	46.3	51.7	56.2	58.8	60.9	62.9			
Hourly Max	89.3	89.1	90.2	90.9	92.4	93.3	92.6	92.5	91.7	89.7	89.0	87.9	87.5	88.0	87.4	87.2	85.9	87.8	88.1	90.2	89.6	89.4	89.9	89.5			

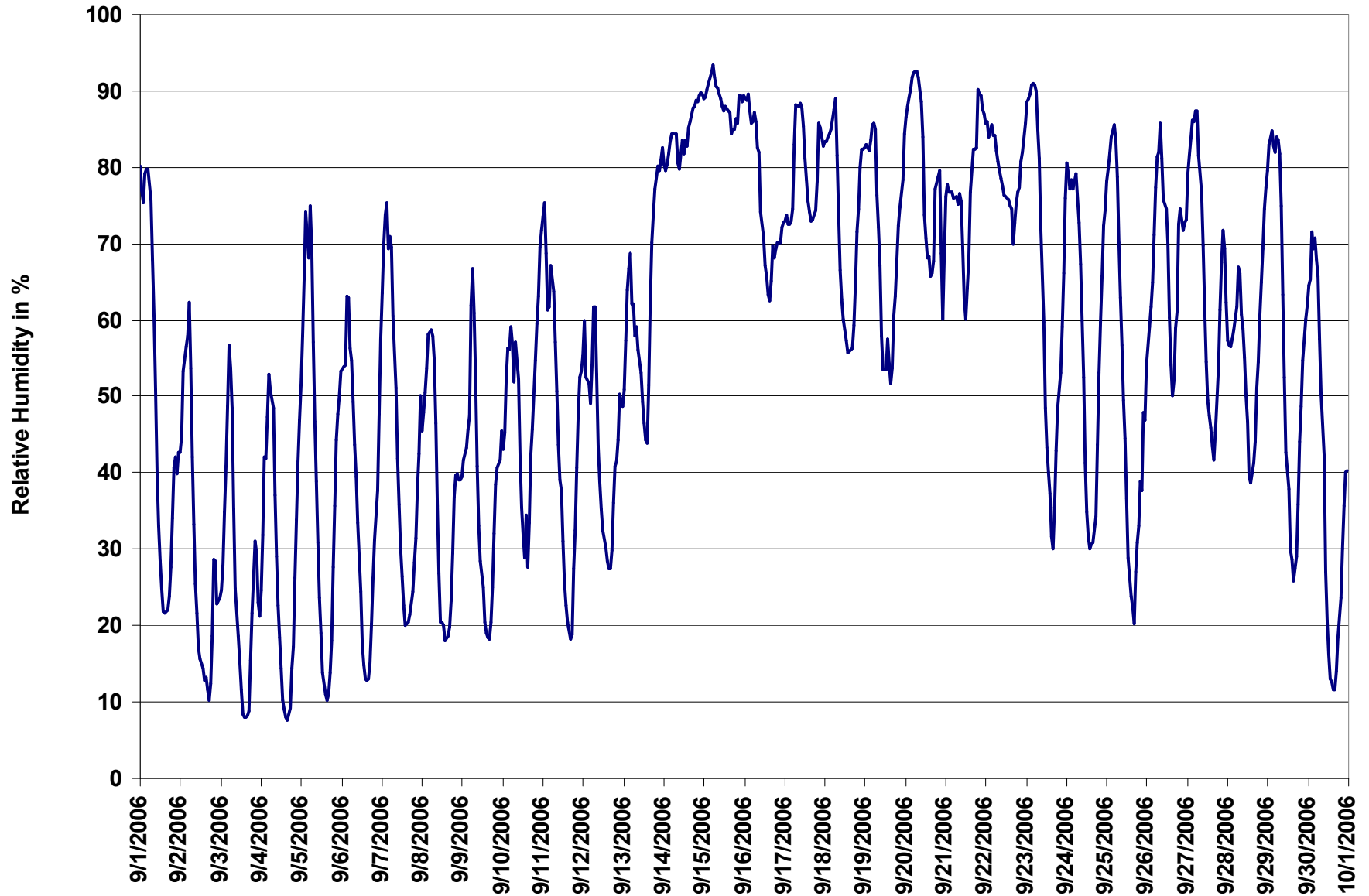


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

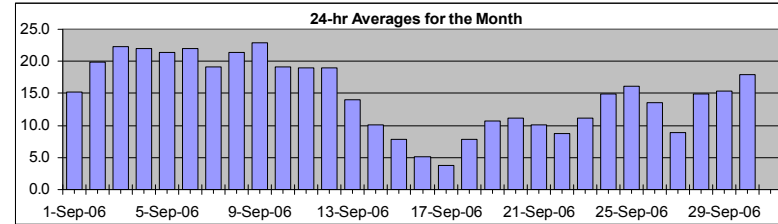
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	33.4 °C	5-Sep	15:00 16:00
Maximum 24-hr Value:	22.9 °C	9-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	32.7	29.2	19.6	13.4	9.5	3.9	2.4	14.9 °C	13.4 °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	0:00		
1-Sep-06	9	8	8	7	7	7	7	10	13	16	19	20	21	22	23	23	23	23	21	18	16	15	15	14	15.2	23.2	
2-Sep-06	14	13	11	10	10	9	12	16	20	22	24	25	26	27	28	29	29	28	26	23	18	17	20	19	19.9	28.8	
3-Sep-06	19	18	15	13	11	10	11	14	19	23	27	29	31	32	33	33	33	32	29	24	20	19	20	20	22.3	32.9	
4-Sep-06	19	16	14	13	12	10	12	15	18	22	26	29	31	33	33	33	33	32	29	26	22	19	16	15	22.0	33.4	
5-Sep-06	14	14	13	12	11	10	11	14	18	21	26	29	31	32	33	33	33	32	28	25	22	19	16	16	21.3	33.4	
6-Sep-06	15	15	14	13	12	12	12	15	18	22	26	29	31	32	32	33	32	31	28	26	23	21	19	16	22.0	32.5	
7-Sep-06	15	14	13	12	12	12	12	14	17	20	23	25	26	27	27	28	27	25	24	21	20	17	16	14	19.2	27.5	
8-Sep-06	15	14	14	13	13	13	13	15	18	22	26	29	30	30	31	30	30	28	25	22	21	21	21	21	21.4	30.7	
9-Sep-06	21	20	20	19	18	14	13	15	18	22	26	28	30	31	32	32	31	30	27	23	21	20	19	19	22.9	31.6	
10-Sep-06	20	19	18	16	15	13	14	16	18	20	23	24	24	25	23	24	23	21	21	18	17	16	15	14	19.1	24.7	
11-Sep-06	13	12	12	12	11	10	10	13	16	19	23	25	27	28	29	29	29	29	25	23	19	16	14	13	19.0	29.2	
12-Sep-06	13	12	13	13	14	13	11	12	15	19	21	24	25	27	27	27	26	24	21	20	18	17	17	17	19.0	27.3	
13-Sep-06	17	15	13	12	12	13	12	13	14	15	17	18	19	19	20	18	16	13	12	11	10	10	10	9	14.0	19.6	
14-Sep-06	10	10	9	9	9	9	9	9	10	10	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10.0	11.2	
15-Sep-06	10	10	10	10	10	10	10	10	10	10	9	9	8	7	7	7	7	6	5	5	4	4	3	3	7.8	10.4	
16-Sep-06	3	2	2	3	3	3	3	3	4	4	6	6	7	7	8	8	8	7	7	6	6	6	6	6	5.1	7.8	
17-Sep-06	5	5	4	4	4	3	2	2	2	2	3	4	4	5	5	5	5	5	5	5	4	4	4	4	3.8	5.3	
18-Sep-06	4	4	4	4	4	3	2	4	6	8	10	11	12	13	14	14	14	13	11	9	8	7	6	6	7.8	14.0	
19-Sep-06	6	6	7	6	5	5	5	7	9	11	13	15	16	15	15	16	16	15	14	13	12	12	11	10	10.8	15.7	
20-Sep-06	10	9	9	8	8	8	8	8	8	9	11	13	14	14	14	15	15	15	13	12	12	12	13	12	11.2	14.8	
21-Sep-06	10	10	10	10	9	9	8	9	9	11	13	14	13	12	11	10	10	9	8	8	8	8	8	8	10.0	13.7	
22-Sep-06	8	8	8	8	8	8	8	8	8	9	9	9	10	10	10	10	11	10	10	10	9	9	8	7	8.8	10.6	
23-Sep-06	6	6	5	4	3	3	3	5	7	11	14	15	17	18	19	19	19	17	16	15	14	13	11	9	11.2	18.8	
24-Sep-06	7	8	8	9	10	10	9	10	12	14	18	22	23	23	24	24	24	22	19	17	14	13	11	10	15.0	23.6	
25-Sep-06	9	8	8	7	7	7	9	11	14	16	18	21	23	25	25	26	26	23	21	19	17	17	15	15	16.1	25.6	
26-Sep-06	13	13	13	13	13	13	12	12	12	13	14	14	15	17	18	18	17	16	15	14	13	11	9	8	13.6	17.8	
27-Sep-06	6	5	4	3	3	3	3	4	6	9	11	12	14	15	15	16	17	15	12	10	8	7	8	10	9.0	16.5	
28-Sep-06	11	12	12	13	13	12	11	12	14	14	16	18	20	22	22	21	20	18	17	15	13	13	11	10	15.0	21.9	
29-Sep-06	10	9	9	9	9	8	8	8	11	15	18	21	22	23	24	25	24	23	20	18	16	15	13	13	15.4	24.6	
30-Sep-06	12	12	10	11	10	10	10	12	15	19	23	25	27	27	28	28	27	25	22	19	17	15	13	13	18.0	28.0	
Hourly Avg	11.4	10.8	10.3	9.9	9.5	8.9	9.0	10.6	12.6	15.0	17.3	19.1	20.2	21.0	21.4	21.5	21.1	20.0	18.2	16.2	14.6	13.4	12.6	12.0			
Hourly Max	20.7	20.0	19.6	18.8	18.2	13.9	14.0	16.4	20.0	23.2	27.0	29.4	31.2	32.9	33.4	33.4	33.0	32.4	28.8	26.4	23.1	20.9	21.1	21.0			

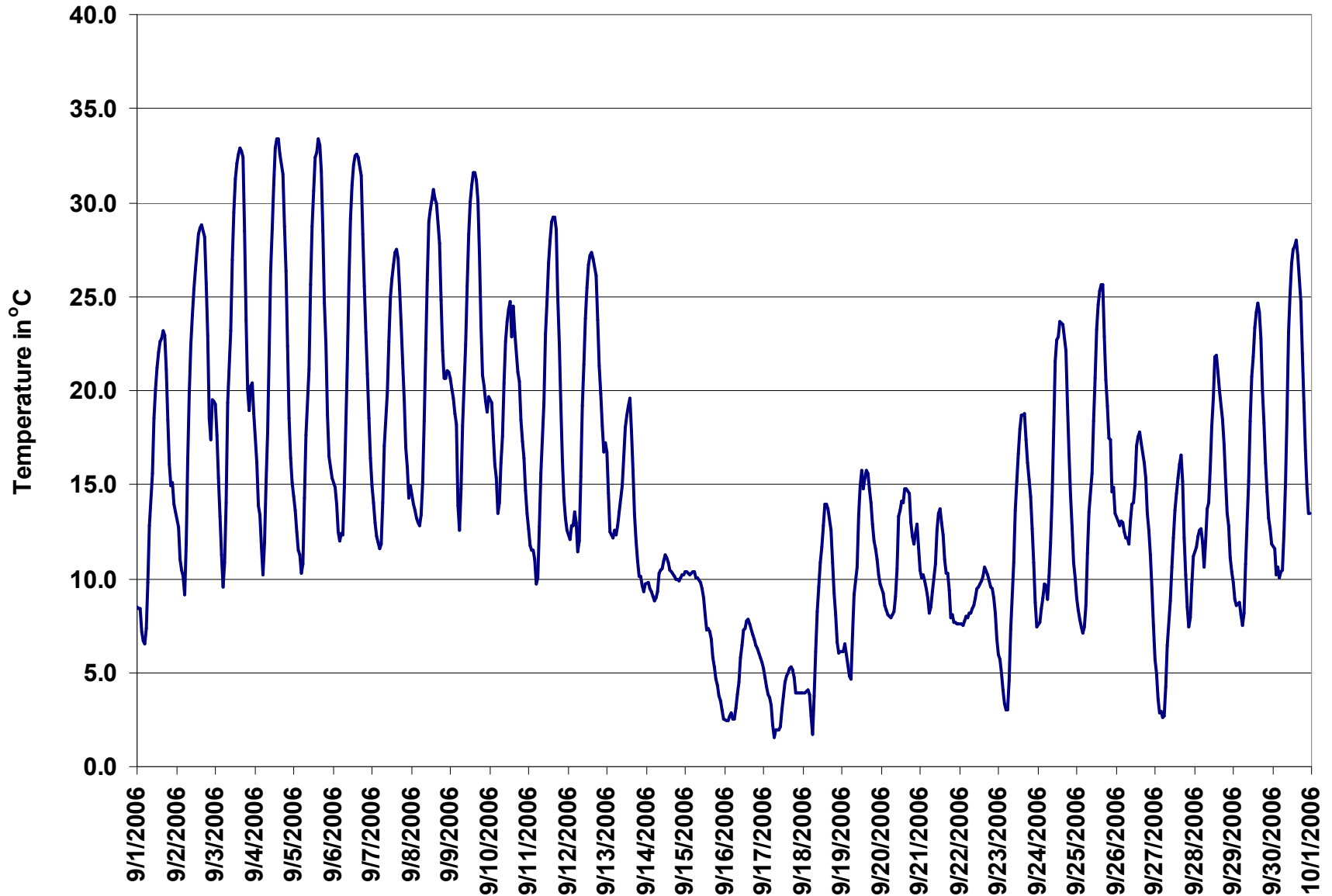


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

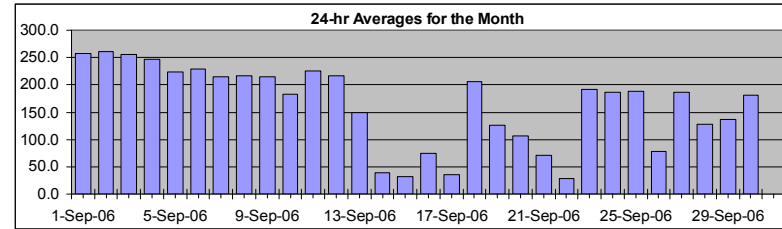
HOURLY AVERAGE TABLE

Solar Radiation (SR)

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

Summary

Maximum 1-hr Average:	783.6	W/m ²	2-Sep	12:00 13:00
Maximum 24-hr Value:	260.3	W/m ²	2-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	746.0	664.2	297.3	15.2	0.0	0.0	0.0	162.9 W/m ²	15.2 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	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
1-Sep-06	0:00	0	0	0	0	0	5	98	257	421	566	680	756	770	739	663	543	389	225	62	1	0	0	0	0	257.3	770.1
2-Sep-06	1:00	0	0	0	0	0	5	98	260	426	576	690	769	784	748	667	545	391	228	59	1	0	0	0	0	260.3	783.6
3-Sep-06	2:00	0	0	0	0	0	4	95	258	424	570	681	759	772	738	658	538	382	217	47	1	0	0	0	0	256.0	771.6
4-Sep-06	3:00	0	0	0	0	0	4	91	253	419	565	671	737	755	718	638	506	345	184	36	0	0	0	0	0	246.8	755.4
5-Sep-06	4:00	0	0	0	0	0	2	70	243	290	517	617	709	717	663	547	489	329	153	39	0	0	0	0	0	224.5	717.1
6-Sep-06	5:00	0	0	0	0	0	2	71	214	364	502	623	679	704	691	608	483	336	169	32	0	0	0	0	0	228.2	704.3
7-Sep-06	6:00	0	0	0	0	0	2	48	177	336	458	586	663	693	662	580	455	310	137	32	0	0	0	0	0	214.1	692.7
8-Sep-06	7:00	0	0	0	0	0	1	30	169	338	484	602	676	690	661	584	463	308	152	26	0	0	0	0	0	215.9	690.1
9-Sep-06	8:00	0	0	0	0	0	1	50	182	340	482	601	677	687	649	566	446	298	145	22	0	0	0	0	0	214.3	687.3
10-Sep-06	9:00	0	0	0	0	0	1	54	244	205	499	615	690	694	593	168	404	140	54	21	0	0	0	0	0	182.6	693.8
11-Sep-06	10:00	0	0	0	0	0	1	59	206	364	508	623	674	711	674	595	472	324	163	20	0	0	0	0	0	224.8	711.4
12-Sep-06	11:00	0	0	0	0	0	1	47	189	353	497	609	686	695	661	579	456	268	147	16	0	0	0	0	0	216.9	695.4
13-Sep-06	12:00	0	0	0	0	0	1	49	197	312	407	452	447	440	475	353	174	209	57	7	0	0	0	0	0	149.2	475.2
14-Sep-06	13:00	0	0	0	0	0	0	13	22	73	73	94	149	142	138	127	49	15	21	3	0	0	0	0	0	38.3	148.8
15-Sep-06	14:00	0	0	0	0	0	0	8	19	38	65	77	79	66	88	135	74	56	43	4	0	0	0	0	0	31.3	134.6
16-Sep-06	15:00	0	0	0	0	0	0	21	65	105	158	262	284	253	217	179	107	88	42	11	0	0	0	0	0	74.6	283.9
17-Sep-06	16:00	0	0	0	0	0	0	7	38	55	99	75	90	142	167	88	53	29	15	1	0	0	0	0	0	35.8	167.1
18-Sep-06	17:00	0	0	0	0	0	0	15	171	347	490	600	673	681	645	546	427	266	86	6	0	0	0	0	0	206.4	680.7
19-Sep-06	18:00	0	0	0	0	0	0	41	176	340	344	408	341	438	302	222	186	160	75	6	0	0	0	0	0	126.6	437.8
20-Sep-06	19:00	0	0	0	0	0	0	5	13	48	137	304	554	376	448	297	223	100	42	2	0	0	0	0	0	106.2	554.1
21-Sep-06	20:00	0	0	0	0	0	0	16	75	130	202	274	257	316	150	118	46	76	32	1	0	0	0	0	0	70.6	316.3
22-Sep-06	21:00	0	0	0	0	0	0	3	21	46	66	82	107	103	72	63	46	54	14	1	0	0	0	0	0	28.2	107.1
23-Sep-06	22:00	0	0	0	0	0	0	32	168	327	468	597	654	664	608	533	322	207	36	1	0	0	0	0	0	192.4	664.0
24-Sep-06	23:00	0	0	0	0	0	0	28	167	319	458	565	634	591	466	531	395	249	85	3	0	0	0	0	0	187.2	634.4
25-Sep-06	0:00	0	0	0	0	0	0	27	162	315	451	563	621	636	608	473	398	234	43	2	0	0	0	0	0	188.8	635.5
26-Sep-06	1:00	0	0	0	0	0	0	8	20	55	176	225	151	236	490	294	164	29	14	1	0	0	0	0	0	77.7	490.2
27-Sep-06	2:00	0	0	0	0	0	0	28	163	321	475	558	626	639	486	500	375	231	65	2	0	0	0	0	0	186.2	639.2
28-Sep-06	3:00	0	0	0	0	0	0	23	147	268	258	358	411	370	541	340	199	103	32	1	0	0	0	0	0	127.0	540.9
29-Sep-06	4:00	0	0	0	0	0	0	14	119	252	354	520	593	437	352	252	224	124	44	2	0	0	0	0	0	136.9	592.9
30-Sep-06	5:00	0	0	0	0	0	0	16	141	298	441	554	620	602	586	443	368	218	47	1	0	0	0	0	0	180.6	620.3
Hourly Avg	0.0	0.0	0.0	0.0	0.0	1.0	38.8	151.2	264.3	378.2	472.2	525.5	526.8	501.3	411.5	321.1	208.9	92.3	15.5	0.2	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.1	0.1	0.1	0.0	0.0	4.9	97.8	260.1	426.2	575.6	689.8	768.9	783.6	747.7	667.1	545.3	391.0	228.4	62.0	1.5	0.1	0.1	0.1	0.1	0.1		

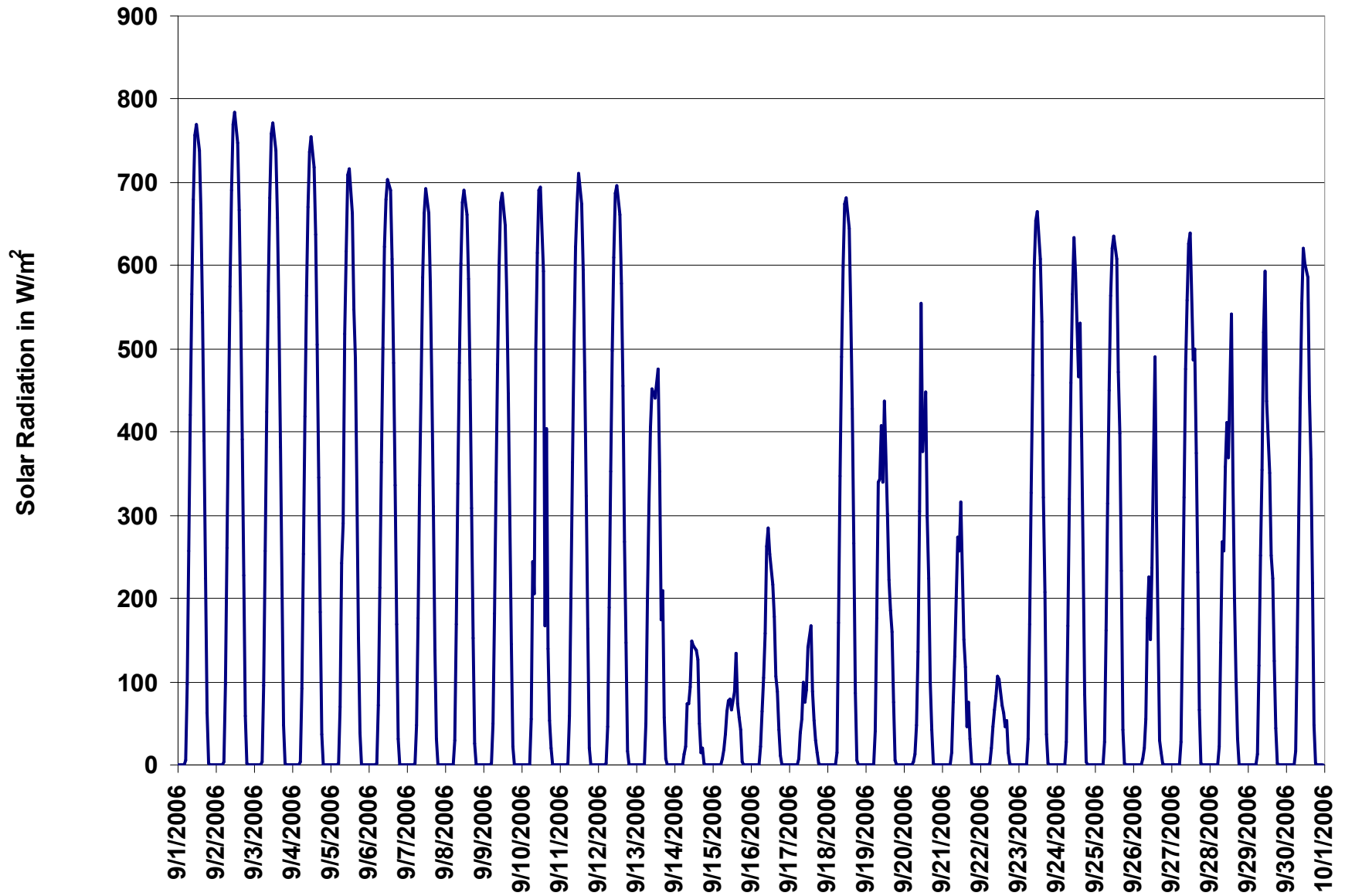


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

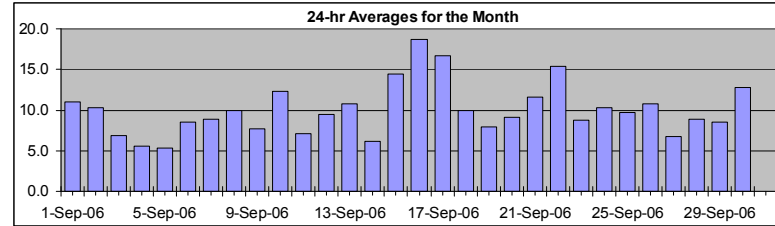
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	24.8	km/hr	16-Sep	13:00 14:00
Maximum 24-hr Value:	18.7	km/hr	16-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	23.2	20.3	13.1	8.8	6.1	3.9	2.8	10.0 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	24:00		
1-Sep-06	11	11	12	10	11	10	11	11	14	13	14	14	12	11	10	12	11	10	10	6	9	10	11	13	9	11.1	14.4
2-Sep-06	9	8	3	4	5	3	4	7	10	15	18	21	20	17	15	12	11	10	10	10	8	8	7	11	10.3	21.4	
3-Sep-06	14	8	5	8	10	8	6	6	4	5	5	6	6	9	10	9	8	6	4	6	6	5	6	6	6.8	14.2	
4-Sep-06	6	3	4	5	7	3	3	4	4	4	4	6	6	5	6	6	8	8	9	9	6	6	6	6	5.6	9.3	
5-Sep-06	3	3	2	3	4	4	7	5	4	7	7	8	7	6	6	5	5	3	4	5	4	6	8	8	5.3	8.4	
6-Sep-06	8	10	4	4	8	9	11	12	12	10	9	10	12	13	13	13	9	7	5	6	7	5	4	5	8.5	12.9	
7-Sep-06	3	3	3	3	4	5	8	7	9	11	10	10	12	12	11	11	12	14	13	15	14	9	10	5	8.9	15.4	
8-Sep-06	8	5	3	4	4	7	8	8	7	6	7	8	11	13	12	13	10	14	14	16	14	16	13	17	9.9	17.2	
9-Sep-06	14	7	11	6	6	8	7	5	5	6	5	6	6	12	9	9	10	7	8	8	8	7	6	9	7.7	14.3	
10-Sep-06	15	11	11	15	16	15	16	15	13	14	14	15	16	17	13	13	16	10	10	6	5	7	6	5	12.3	16.8	
11-Sep-06	5	7	10	13	10	6	9	7	10	6	4	6	6	6	7	6	10	7	3	6	7	9	7	6	7.1	12.8	
12-Sep-06	5	7	7	9	10	7	7	8	6	6	7	8	11	10	10	9	8	9	11	13	18	14	11	15	9.5	18.3	
13-Sep-06	16	9	7	4	8	12	5	12	12	9	7	5	8	10	8	18	23	24	20	13	8	8	7	4	10.7	24.1	
14-Sep-06	8	6	9	7	5	5	3	4	4	5	6	5	5	6	5	5	4	5	9	9	9	9	10	7	6.2	10.1	
15-Sep-06	4	6	7	7	7	7	11	11	10	15	17	20	22	19	22	21	22	20	18	18	14	15	15	17	14.5	22.2	
16-Sep-06	15	16	15	16	17	17	16	17	17	19	22	23	24	25	24	24	23	20	20	17	17	16	16	17	18.7	24.8	
17-Sep-06	20	21	23	24	23	23	19	15	16	15	18	18	20	21	20	19	17	15	10	11	10	8	7	7	16.7	23.8	
18-Sep-06	5	5	4	3	5	5	6	4	6	6	8	12	13	13	14	17	16	16	16	16	13	12	11	10.0	16.6		
19-Sep-06	9	8	4	6	6	7	6	3	5	8	6	8	11	10	7	7	11	10	12	11	9	8	8	10	7.9	11.6	
20-Sep-06	8	6	7	6	6	6	8	9	7	10	8	11	14	15	13	11	6	7	6	6	6	13	17	15	9.2	17.4	
21-Sep-06	7	6	12	11	8	9	7	7	7	8	10	12	16	14	15	15	15	12	15	17	11	15	16	14	11.6	17.4	
22-Sep-06	16	15	16	12	18	14	17	19	21	20	22	21	22	21	20	15	17	12	8	8	12	6	7	8	15.3	22.2	
23-Sep-06	6	8	7	4	7	8	9	7	11	9	12	13	13	13	14	11	10	9	8	7	7	6	7	5	8.7	13.9	
24-Sep-06	5	7	7	8	11	13	14	14	13	12	12	11	14	15	18	16	13	9	8	5	4	4	6	6	10.2	18.5	
25-Sep-06	5	6	6	5	3	10	13	10	21	21	15	12	12	14	14	14	11	6	6	7	8	7	3	6	9.7	20.9	
26-Sep-06	4	5	6	5	5	3	5	10	9	9	10	13	13	13	14	14	13	11	11	13	19	21	17	14	10.7	21.0	
27-Sep-06	6	7	7	7	8	5	6	6	5	5	7	8	7	6	6	8	7	6	7	10	8	6	5	8	6.7	9.8	
28-Sep-06	9	5	10	13	17	15	14	8	10	7	6	9	10	9	11	11	8	6	8	7	4	5	4	5	8.8	17.2	
29-Sep-06	5	3	3	3	5	8	11	10	8	10	14	17	21	16	12	11	8	5	3	5	7	7	6	7	8.5	20.9	
30-Sep-06	6	6	5	6	11	13	15	13	18	13	19	19	20	24	22	18	18	12	9	8	8	6	9	7	12.7	23.9	
1-hr Average	8.5	7.6	7.6	7.7	8.8	8.9	9.4	9.0	10.0	10.1	10.7	11.8	12.9	13.1	12.8	12.5	11.9	10.3	9.7	9.9	9.5	9.2	9.0	9.0			
Hourly Max	20.2	21.2	23.0	23.8	23.2	22.6	19.4	18.9	20.9	20.5	22.2	23.1	23.6	24.8	23.9	23.6	23.1	24.1	20.3	18.2	18.6	21.0	17.4	17.2			



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

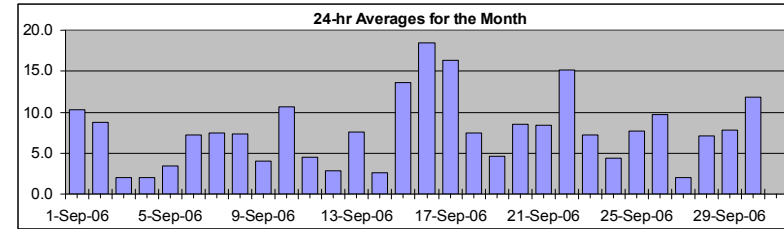
Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	24.6	km/hr	16-Sep	13:00 14:00
Maximum 24-hr Value:	18.5	km/hr	16-Sep	

Calm Time:	3 hrs	0% calms	Operational Time:	717 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	23.1	20.1	12.9	8.4	5.6	2.6	1.2	2.4 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		
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-Sep-06	11	11	12	10	11	10	11	11	13	13	14	14	11	9	9	11	9	6	9	10	10	11	13	9	10.3	14.0	
2-Sep-06	9	8	1	4	4	2	3	7	9	15	18	21	19	17	14	12	10	10	10	8	8	6	10	8.8	21.1		
3-Sep-06	14	7	3	8	10	8	6	6	4	5	2	4	4	8	9	9	8	5	3	6	6	4	6	5	2.0	14.0	
4-Sep-06	5	2	3	4	7	3	1	3	3	3	1	4	5	3	4	4	7	8	9	9	5	6	6	6	2.1	9.2	
5-Sep-06	2	3	2	2	3	3	7	5	3	7	7	7	7	5	6	4	4	2	2	4	4	5	8	8	3.4	8.3	
6-Sep-06	8	10	2	3	8	9	10	11	11	10	8	10	12	12	12	13	8	7	4	5	7	3	4	1	7.2	12.7	
7-Sep-06	calm	1	1	2	3	4	8	7	9	11	9	9	11	12	10	10	11	14	13	15	13	9	10	4	7.5	15.4	
8-Sep-06	7	5	2	4	1	7	8	8	5	6	4	7	10	12	12	13	9	13	14	16	14	15	11	17	7.3	17.0	
9-Sep-06	14	2	10	1	4	8	7	5	5	4	5	2	11	8	8	9	7	8	8	8	6	5	8	4.1	13.9		
10-Sep-06	15	11	11	15	16	14	16	15	13	13	13	15	15	16	12	12	15	10	10	6	5	7	6	3	10.7	16.3	
11-Sep-06	4	7	10	13	9	6	9	6	10	5	calm	4	4	3	5	4	8	7	2	6	7	9	6	6	4.5	12.7	
12-Sep-06	4	6	7	8	10	7	7	8	5	3	6	8	9	9	9	9	7	8	11	13	18	14	10	15	2.9	18.1	
13-Sep-06	16	9	6	3	8	11	3	12	12	8	6	3	7	9	8	17	23	24	20	13	7	8	7	3	7.6	23.9	
14-Sep-06	7	4	9	6	5	4	3	2	4	5	6	5	5	5	5	5	3	4	9	9	9	9	10	6	2.6	9.9	
15-Sep-06	3	6	7	7	7	7	11	11	9	15	17	20	22	19	22	21	22	20	18	18	14	15	15	17	13.6	22.0	
16-Sep-06	15	16	15	16	17	17	15	17	17	19	22	23	23	25	24	23	23	20	19	17	17	16	16	17	18.5	24.6	
17-Sep-06	20	21	23	24	23	22	19	14	16	15	18	18	20	21	20	19	17	15	10	11	10	8	7	7	16.4	23.8	
18-Sep-06	5	4	3	2	5	5	6	3	6	6	8	11	12	12	13	16	15	16	16	15	16	13	12	11	7.5	16.3	
19-Sep-06	9	8	4	6	6	7	5	3	5	8	5	7	11	10	7	7	10	10	12	11	9	7	8	9	4.6	11.5	
20-Sep-06	8	6	6	6	5	6	8	9	6	9	8	10	14	14	13	11	5	6	6	5	5	13	17	15	8.5	17.2	
21-Sep-06	6	5	12	11	8	9	6	6	7	7	9	11	16	13	14	14	14	12	15	17	11	15	16	14	8.4	17.3	
22-Sep-06	15	15	16	12	17	14	17	19	21	20	22	21	21	21	20	15	17	12	7	8	12	6	7	8	15.1	22.1	
23-Sep-06	6	8	6	4	7	8	9	7	11	8	12	12	12	12	13	10	9	8	8	7	6	6	5	7.2	13.3		
24-Sep-06	5	7	7	8	11	13	14	13	13	12	11	9	14	15	18	16	12	9	8	4	4	4	5	6	4.4	18.1	
25-Sep-06	5	6	5	4	1	9	13	9	21	20	15	12	11	14	14	14	11	6	6	7	8	7	1	6	7.7	20.7	
26-Sep-06	3	3	5	4	4	3	4	10	8	8	10	13	13	13	14	14	13	11	11	13	18	21	17	13	9.7	21.0	
27-Sep-06	6	7	7	7	8	4	6	6	3	2	6	7	4	2	3	7	6	5	7	10	8	6	4	8	2.0	9.7	
28-Sep-06	9	3	9	13	17	15	14	7	9	6	5	9	10	7	11	11	8	6	8	6	1	5	3	3	7.1	17.0	
29-Sep-06	5	calm	1	2	4	7	11	10	8	10	14	17	21	15	12	11	8	4	2	4	7	7	2	6	7.8	20.5	
30-Sep-06	5	5	3	6	10	13	15	13	18	13	19	19	20	24	22	18	18	11	9	8	8	5	7	3	11.8	23.6	
1-hr Vector	2.1	2.6	3.4	3.9	4.5	4.5	4.4	3.5	3.7	2.5	3.3	4.1	4.4	4.2	3.5	3.4	3.9	3.1	3.5	2.9	2.5	1.7	1.1	1.4			
Hourly Max	20.0	21.1	22.9	23.8	23.1	22.4	19.4	18.9	20.8	20.3	22.1	22.9	23.4	24.6	23.8	23.5	23.0	23.9	20.1	18.0	18.1	21.0	17.3	17.0			



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	357.3	347.3	292.4	223.8	128.4	21.4	5.9	283 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	24-hour Average	WD Sector
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-Sep-06	237	237	235	240	232	229	221	223	224	225	221	220	222	208	221	215	211	190	167	165	169	182	178	196	213	SSW
2-Sep-06	224	228	310	353	301	265	151	176	173	183	186	194	194	188	190	168	172	168	166	160	136	138	162	189	184	S
3-Sep-06	187	188	11	346	347	351	350	340	19	35	237	198	127	157	179	188	177	169	107	106	115	129	152	167	156	SSE
4-Sep-06	249	282	328	17	349	1	159	150	195	46	158	151	186	151	92	61	35	25	19	21	101	119	120	119	74	ENE
5-Sep-06	106	9	40	183	203	171	225	193	194	227	201	205	201	175	161	165	188	235	271	336	101	111	125	199	186	S
6-Sep-06	201	217	191	154	204	214	219	231	220	218	211	217	224	225	232	230	262	299	295	291	319	315	223	202	229	SW
7-Sep-06	336	309	325	319	9	20	1	10	35	60	55	88	61	61	67	85	86	81	72	73	87	89	99	94	64	ENE
8-Sep-06	76	84	26	9	37	30	86	111	119	40	65	196	207	161	155	145	161	140	123	115	118	123	134	165	127	SE
9-Sep-06	167	146	169	153	30	2	2	3	38	68	18	126	130	201	192	172	148	170	148	121	113	111	140	223	143	SE
10-Sep-06	230	238	240	233	232	241	236	230	260	266	255	288	283	269	265	270	320	327	321	279	260	244	226	192	259	W
11-Sep-06	191	208	229	236	230	186	225	217	227	211	13	191	139	122	217	227	213	214	32	78	116	121	120	128	195	SSW
12-Sep-06	133	208	242	231	245	268	256	238	250	329	360	20	14	25	38	29	19	24	27	55	74	102	113	102	42	NE
13-Sep-06	100	114	128	226	353	10	43	19	42	36	6	77	351	360	358	341	344	347	349	340	327	303	313	292	2	N
14-Sep-06	297	244	211	244	271	325	337	46	158	92	125	133	146	109	93	78	53	76	85	87	74	90	70	79	94	E
15-Sep-06	40	14	357	352	354	345	82	72	54	48	47	42	47	41	43	31	31	37	27	21	23	25	9	5	32	NNE
16-Sep-06	358	349	343	343	339	340	336	332	327	328	325	325	328	330	330	327	326	324	326	325	323	317	315	315	330	NNW
17-Sep-06	324	325	326	326	329	332	328	321	325	320	326	326	329	330	328	330	333	343	354	8	357	350	352	360	332	NNW
18-Sep-06	349	320	302	202	232	255	241	130	114	117	101	100	89	85	84	70	74	78	74	80	90	84	81	70	84	E
19-Sep-06	64	67	44	37	31	18	13	12	17	1	8	281	251	245	297	322	334	332	343	344	341	352	224	243	338	NNW
20-Sep-06	259	264	271	255	234	247	222	232	241	226	201	204	226	225	203	223	203	173	177	198	239	211	214	238	223	SW
21-Sep-06	240	191	224	230	232	239	217	239	267	284	299	311	316	323	324	342	328	328	339	352	339	339	338	332	309	NW
22-Sep-06	334	333	343	328	337	336	339	347	347	344	348	346	346	347	349	355	349	355	337	325	342	328	321	315	342	NNW
23-Sep-06	278	276	263	185	206	222	240	225	225	218	215	219	221	230	240	272	294	309	313	309	302	263	250	205	246	WSW
24-Sep-06	214	219	219	227	221	229	233	235	222	238	237	283	325	326	336	344	351	356	17	69	132	112	123	128	271	W
25-Sep-06	130	129	123	139	194	225	231	226	224	224	235	245	237	246	247	243	253	263	252	252	258	295	44	331	235	SW
26-Sep-06	301	275	251	285	355	344	313	328	304	285	299	309	311	297	307	311	307	313	322	304	339	349	358	358	318	NW
27-Sep-06	348	351	319	302	315	272	252	263	255	149	189	197	232	271	160	182	189	149	109	119	114	107	102	207	202	SSW
28-Sep-06	205	214	223	226	236	244	237	264	318	6	246	231	233	257	230	235	239	250	226	222	327	15	128	234	241	WSW
29-Sep-06	229	271	268	283	221	232	233	232	216	214	221	213	217	241	248	249	251	266	221	159	202	217	320	224	231	SW
30-Sep-06	202	244	221	250	228	235	232	241	231	214	242	244	249	252	246	256	252	258	265	239	242	152	203	136	239	WSW
Hourly Avg	243	266	271	273	282	283	261	266	261	273	266	252	267	271	276	297	316	343	5	28	41	60	111	208		



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

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

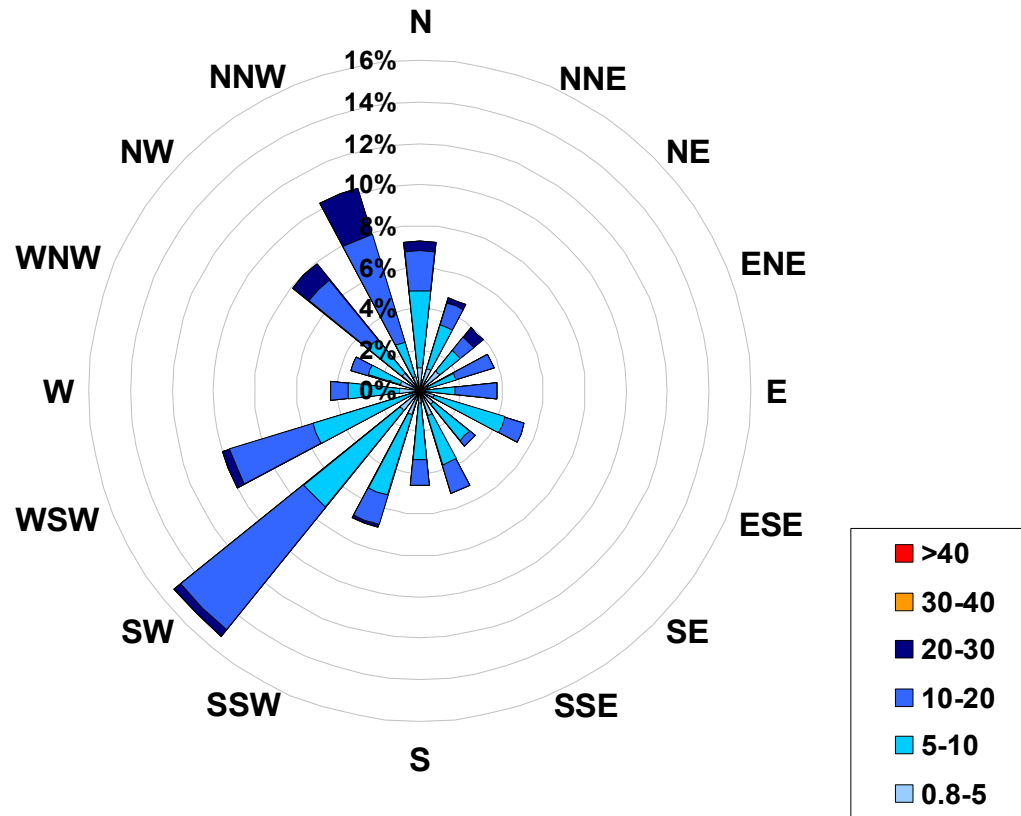
Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	60.6	48.9	20.2	12.4	7.5	5.2	4.2

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	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-Sep-06	8	5	6	9	6	7	6	7	8	10	10	14	23	33	27	26	30	15	14	9	8	9	8	9	33.1
2-Sep-06	7	6	42	13	12	44	23	13	20	12	10	9	13	14	15	15	14	10	8	7	8	9	25	13	43.7
3-Sep-06	9	16	25	8	5	9	10	15	18	18	61	56	55	25	27	21	20	19	20	8	9	17	16	34	60.8
4-Sep-06	27	55	14	10	7	27	44	30	57	40	74	43	40	49	26	48	19	7	3	3	10	5	4	12	73.9
5-Sep-06	28	20	18	55	40	55	6	18	45	12	19	27	29	38	28	42	36	41	46	17	17	37	5	10	54.7
6-Sep-06	6	8	54	30	5	6	5	4	6	19	11	19	10	15	12	14	22	18	14	12	7	46	31	51	54.2
7-Sep-06	51	57	43	52	29	26	17	10	9	13	16	26	19	19	19	19	18	6	5	4	6	8	8	19	56.8
8-Sep-06	17	17	51	11	51	14	15	9	21	23	50	32	27	17	16	18	14	10	6	5	7	10	25	9	51.0
9-Sep-06	12	52	14	56	50	6	6	7	12	26	24	34	63	24	25	20	21	13	10	6	6	16	14	16	62.7
10-Sep-06	11	12	8	5	10	13	6	8	11	15	17	13	17	12	17	16	13	8	7	10	13	7	37	35	37.0
11-Sep-06	32	16	5	5	16	13	7	23	11	34	51	51	44	60	36	46	33	14	26	15	13	7	12	15	59.6
12-Sep-06	26	22	28	12	14	11	25	17	25	40	30	31	22	24	22	21	20	11	6	7	5	8	11	7	39.9
13-Sep-06	6	10	18	38	14	16	41	9	13	23	28	49	34	19	22	12	6	5	5	10	14	12	13	43	49.0
14-Sep-06	15	24	11	16	18	14	21	29	30	19	18	23	28	19	13	12	24	51	8	7	7	8	8	16	50.8
15-Sep-06	30	14	9	7	6	11	12	8	11	8	7	8	7	7	7	7	7	7	7	6	8	10	6	4	29.8
16-Sep-06	5	5	6	6	7	7	9	8	7	7	7	7	7	6	5	6	6	6	6	5	6	7	7	7	8.8
17-Sep-06	7	5	5	5	6	6	5	7	7	8	7	6	6	6	6	6	7	6	6	6	6	7	7	7	8.3
18-Sep-06	14	16	27	49	16	18	13	26	14	23	26	16	16	16	20	10	10	7	5	7	9	7	5	6	48.9
19-Sep-06	8	8	15	12	8	9	13	18	19	12	27	19	13	16	20	16	10	8	5	4	6	17	20	9	27.0
20-Sep-06	10	14	13	13	13	11	10	7	28	14	18	15	13	8	15	13	27	17	17	24	25	8	6	9	27.8
21-Sep-06	19	39	7	8	8	8	23	16	17	20	14	16	13	10	7	10	7	8	6	7	8	6	5	6	38.7
22-Sep-06	7	7	5	8	7	8	6	5	5	4	5	5	6	5	5	6	5	5	7	8	5	13	10	8	12.6
23-Sep-06	11	10	13	31	15	5	14	20	7	15	15	14	22	16	15	20	19	11	9	11	8	11	7	11	31.1
24-Sep-06	22	9	5	6	5	7	4	9	11	13	13	23	14	16	11	9	12	6	4	16	20	17	9	11	22.6
25-Sep-06	23	7	15	15	48	10	8	24	6	8	8	12	13	13	10	10	11	15	11	11	7	14	61	12	60.9
26-Sep-06	42	51	20	14	14	31	24	10	12	15	16	10	12	14	11	12	10	8	9	10	7	4	4	6	51.0
27-Sep-06	14	7	12	14	8	30	16	18	42	52	33	39	64	70	57	32	34	18	7	7	8	9	14	11	69.8
28-Sep-06	6	51	17	11	8	8	5	20	15	36	50	15	12	32	15	10	9	15	8	10	42	12	17	41	50.9
29-Sep-06	21	66	45	40	38	20	7	4	10	9	9	10	10	9	8	10	36	52	27	7	12	33	34	65.6	
30-Sep-06	32	29	65	16	10	5	6	8	6	14	8	9	10	8	8	8	7	7	13	9	24	26	15	33	65.1
Hourly Max	51	66	65	56	51	55	44	30	57	52	74	56	64	70	57	48	36	51	52	27	42	46	61	51	



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



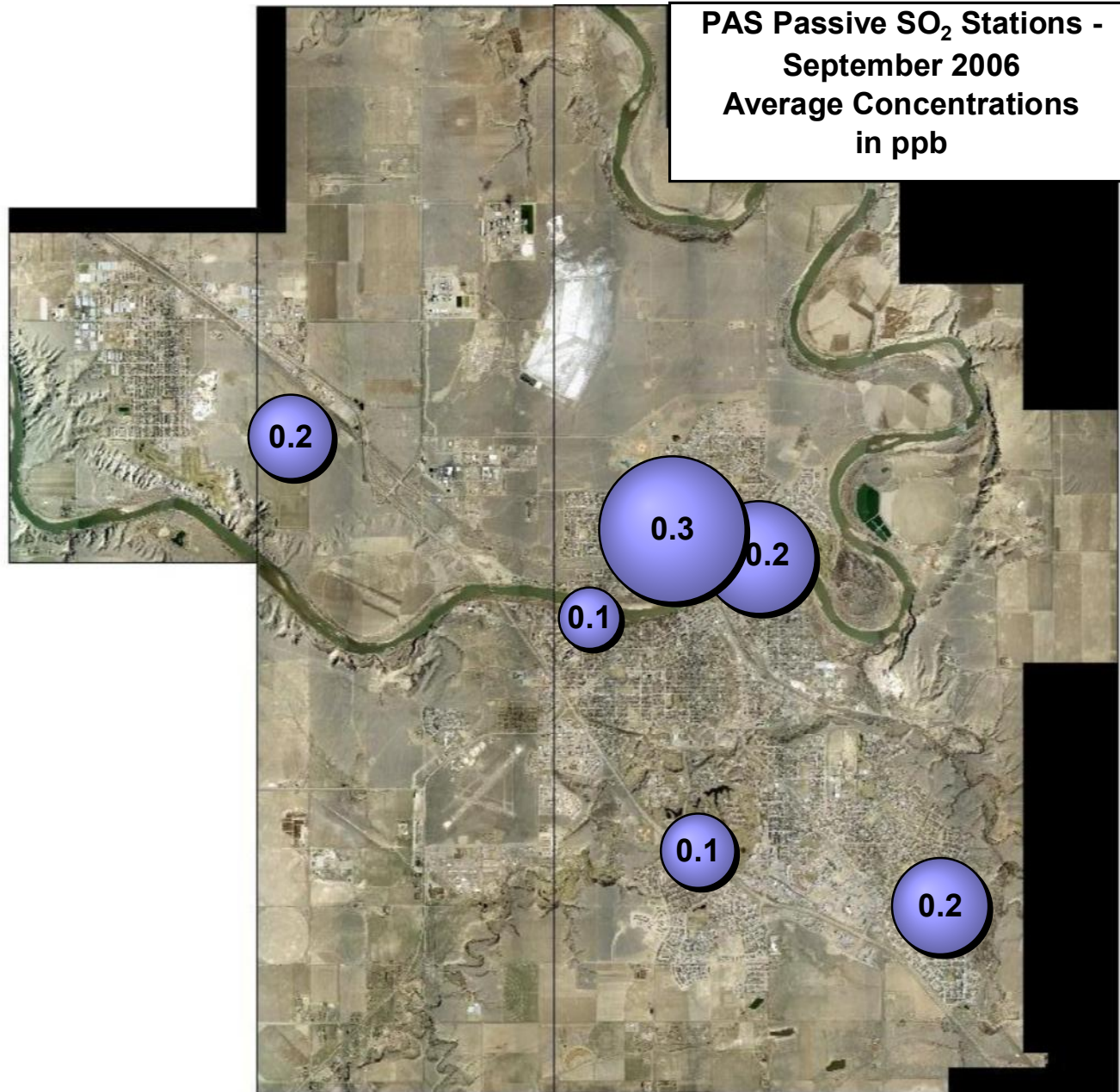
Calms: 0%

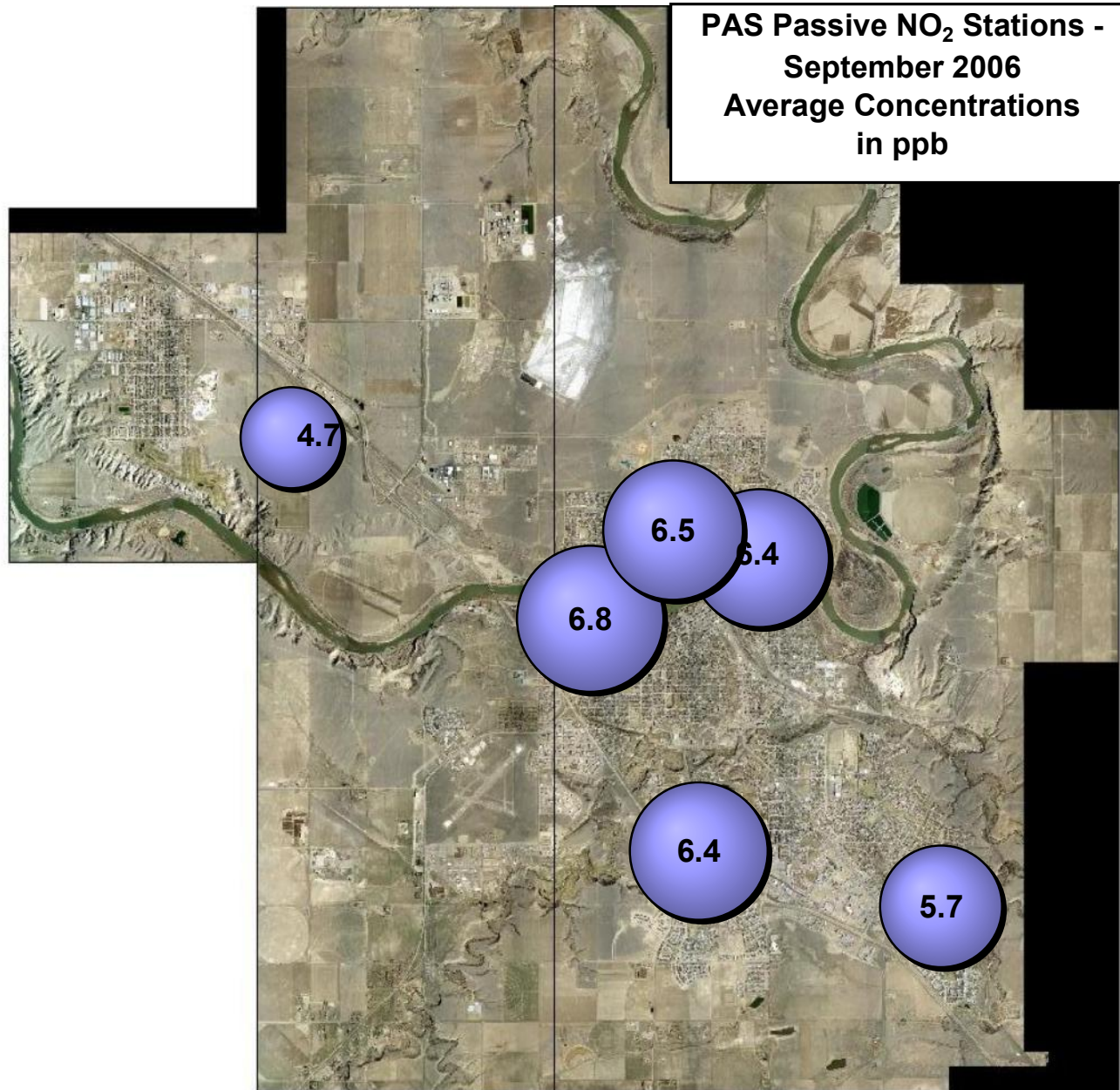
Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	102
5	to	10	318
10	to	20	260
20	to	30	40
30	to	40	0
	>	40	0
Total Non-Zero Values			720

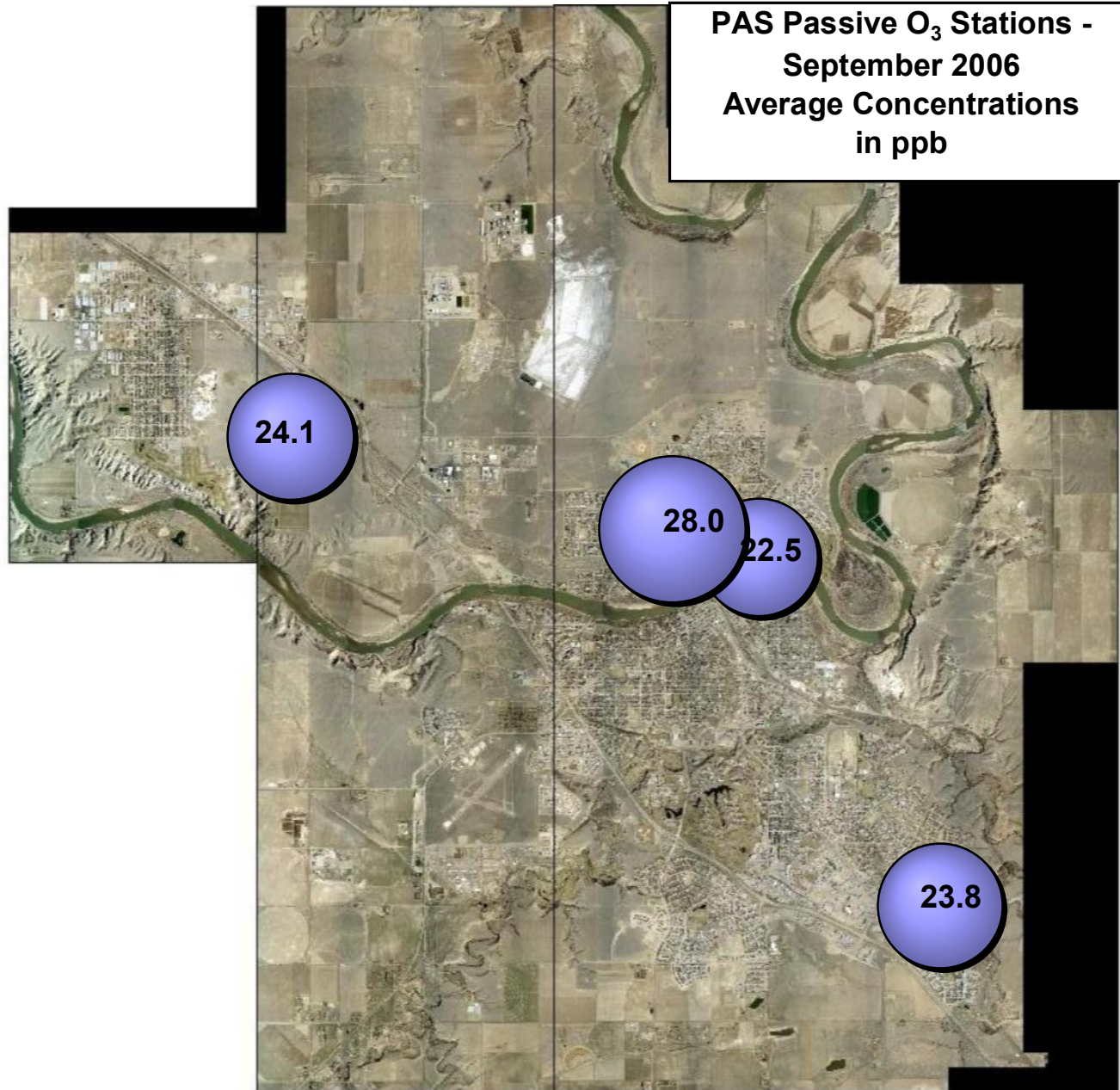


Passive Monitoring – September 2006

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation																																																																
Duplicates																																																																							
6a	Christian School Park	0.2	22.8	6.1																																																																			
6b		0.2	24.8	5.3																																																																			
1	Hospital	0.1	N/A	6.8	521648	5542721	698																																																																
2	Ball Park	0.2	22.5	6.4	524019	5543686	660																																																																
3	Monitoring Station	0.3	28.0	6.5	522812	5544133	714																																																																
4	Redcliff	0.2	24.1	4.7	517448	5545608	725																																																																
5	Southridge	0.1	N/A	6.4	523172	5539016	721																																																																
6	Christian School Park	0.2	23.8	5.7	526577	5538133	709																																																																
<p>Stats:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Mean</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">24.6</td> <td style="text-align: center;">6.1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Standard Deviation</td> <td style="text-align: center;">0.1</td> <td style="text-align: center;">2.4</td> <td style="text-align: center;">0.8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Minimum</td> <td style="text-align: center;">0.1</td> <td></td> <td></td> <td style="text-align: center;">1</td> <td colspan="2" style="text-align: center;">Hospital</td> <td></td> </tr> <tr> <td style="text-align: center;">Maximum</td> <td style="text-align: center;">0.3</td> <td></td> <td></td> <td style="text-align: center;">3</td> <td colspan="2" style="text-align: center;">Monitoring Station</td> <td></td> </tr> <tr> <td style="text-align: center;">Minimum</td> <td></td> <td style="text-align: center;">22.5</td> <td></td> <td style="text-align: center;">2</td> <td colspan="2" style="text-align: center;">Ball Park</td> <td></td> </tr> <tr> <td style="text-align: center;">Maximum</td> <td></td> <td style="text-align: center;">28.0</td> <td></td> <td style="text-align: center;">3</td> <td colspan="2" style="text-align: center;">Monitoring Station</td> <td></td> </tr> <tr> <td style="text-align: center;">Minimum</td> <td></td> <td></td> <td style="text-align: center;">4.7</td> <td style="text-align: center;">4</td> <td colspan="2" style="text-align: center;">Redcliff</td> <td></td> </tr> <tr> <td style="text-align: center;">Maximum</td> <td></td> <td></td> <td style="text-align: center;">6.8</td> <td style="text-align: center;">1</td> <td colspan="2" style="text-align: center;">Hospital</td> <td></td> </tr> </table>								Mean	0.2	24.6	6.1					Standard Deviation	0.1	2.4	0.8					Minimum	0.1			1	Hospital			Maximum	0.3			3	Monitoring Station			Minimum		22.5		2	Ball Park			Maximum		28.0		3	Monitoring Station			Minimum			4.7	4	Redcliff			Maximum			6.8	1	Hospital		
Mean	0.2	24.6	6.1																																																																				
Standard Deviation	0.1	2.4	0.8																																																																				
Minimum	0.1			1	Hospital																																																																		
Maximum	0.3			3	Monitoring Station																																																																		
Minimum		22.5		2	Ball Park																																																																		
Maximum		28.0		3	Monitoring Station																																																																		
Minimum			4.7	4	Redcliff																																																																		
Maximum			6.8	1	Hospital																																																																		







PAS

September 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	September 21, 2006	Previous Calibration	August 30, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:00	End Time (MST)	17:23
Barometric Pressure	27.2 inches Hg	Station Temperature	21.9 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentrator	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	0.997608	Calculated slope	1.021142
Calculated intercept	-1.800224	Calculated intercept	0.857092
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	4792.1	mV
Lamp Reference	4793.1	mV	4793.1	mV
Pressure	25.8	inches Hg	25.8	inches Hg
Sample Flow	666	ccm	666	ccm
Sample temp	37.8	Deg C	37.8	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)
4992	0.0	0.0	-1.8	N/A
4992	300.0	311.4	303.0	1.0278
4992	200.0	215.1	210.8	1.0204
4992	100.0	120.4	118.2	1.0188
4992	0.0	0.0	-1.7	0.0000
4992	300.0	311.4	303.0	1.0278
Average Correction Factor				1.0223

Calculated value of As Found Response: 302.1 ppm Percent Change of As Found: -3.0%

	before calibration		after calibration	
Auto zero	-4.7	ppb	-1.4	ppb
Auto span	344.1	ppb	344.4	ppb

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

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter O3
 Air Monitoring Network Palliser Airshed

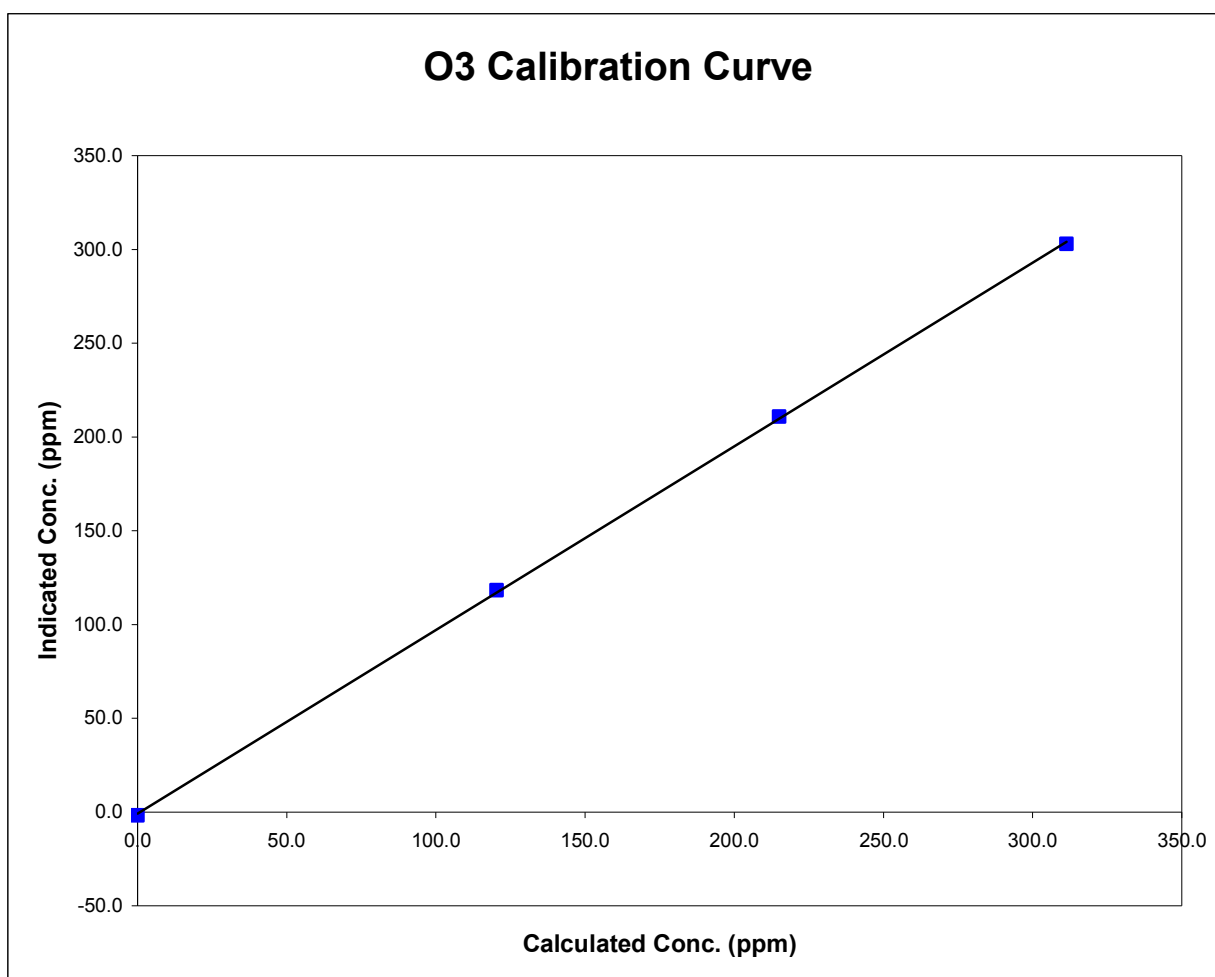


Station Information

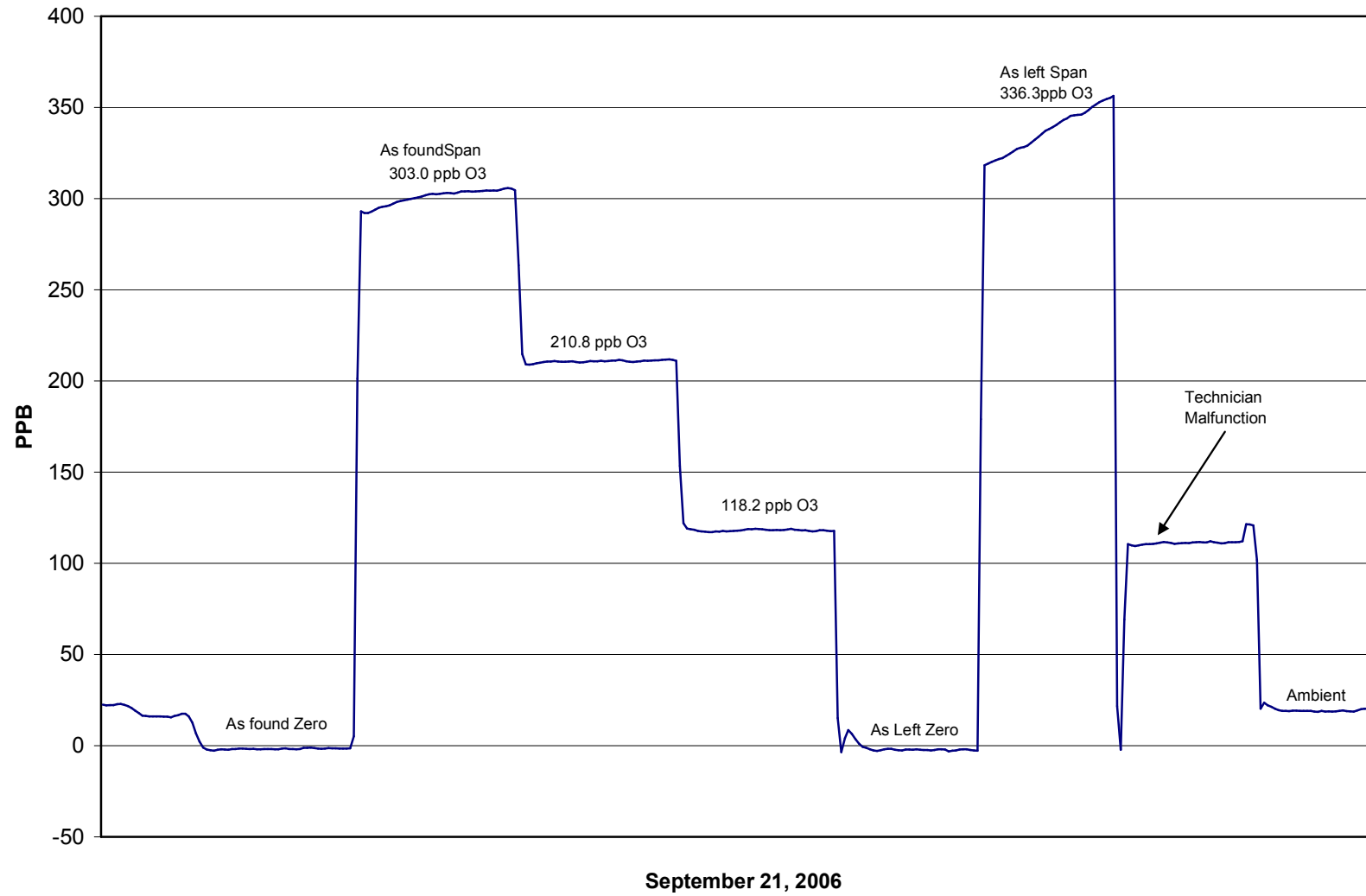
Calibration Date	September 21, 2006	Previous Calibration	August 30, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:00	End Time (MST)	17:23
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
311.4	303.0	1.0278	Correlation Coefficient	0.999913
215.1	210.8	1.0204		
120.4	118.2	1.0188		
0.0	-1.8	N/A	Slope	1.021142
			Intercept	0.857092



O3 Calibration



Calibration Report

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



Station Information

Calibration Date September 21, 2006 Previous Calibration August 22, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 10:00 End Time (MST) 14:10
 Barometric Pressure 27.2 inches Hg Station Temperature 20.8 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 50.5 ppm Cal Gas Expiry Date 22-Nov-06
 NOx Cal Gas Conc 50.5 ppm Cal Gas Serial # BAL786

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.003726	1.005186	1.006015
	Data Offset	-0.650790	-0.108456	1.642203
After	Data Slope	1.008477	1.008640	1.006729
	Data Offset	0.072196	-0.240292	2.482774
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	1.159		1.243	
NOx coefficient	1.173		1.266	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	39.6		40.6	
Perm Temp	40.4	Deg C	40.4	Deg C
Pressure	4.6	inches Hg	5.5	inches Hg
Sample Flow	446.0	ccm	443.0	ccm

Notes: Performed a Span Adjustment...

Calibration Report

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



Station Information

Calibration Date: September 21, 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	4992	0.00	0.0	0.0	0.0	-0.3	-2.7	-0.1	N/A	N/A
1	4992	39.85	399.9	399.9	0.0	396.3	394.6	-0.4	1.0091	1.0135
2	4992	19.91	200.6	200.6	0.0	199.8	197.1	0.4	1.0039	1.0177
3	4992	9.96	100.5	100.5	0.0	100.2	97.5	0.0	1.0032	1.0310
AFZ	4992	0.00	0.0	0.0	0.0	-0.3	-2.7	-0.1	0.0000	0.0000
AFS	4992	39.85	399.9	399.9	0.0	378.2	376.4	-0.1	1.0575	1.0626
								Average Correction Factor	1.0054	1.0207

As Found Concentrations NO_x= 378.4 NO= 380.7 As Found Percent Change NO_x= -5.4% NO= -4.8%

GPT Calibration Data

Dilution Flow 4992 ccm Source Gas Flow 39.85 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	401.0	400.4	0.6	397.8	395.3	-0.1	N/A	N/A	N/A	N/A	
300	403.3	282.9	120.4	400.1	278.5	119.4	1.0080	1.0156	1.0087	99.1%	
200	405.3	190.2	215.1	402.1	186.5	213.3	1.0080	1.0200	1.0086	99.1%	
100	406.3	94.9	311.4	403.0	91.8	308.6	1.0080	1.0338	1.0089	99.1%	
							Average Correction Factor	1.0080	1.0232	1.0087	99.1%

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	-1.6	-2.0	0.1	ppb
Auto span	413.7	404.2	8.6	ppb	405.8	400.3	5.2	ppb

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

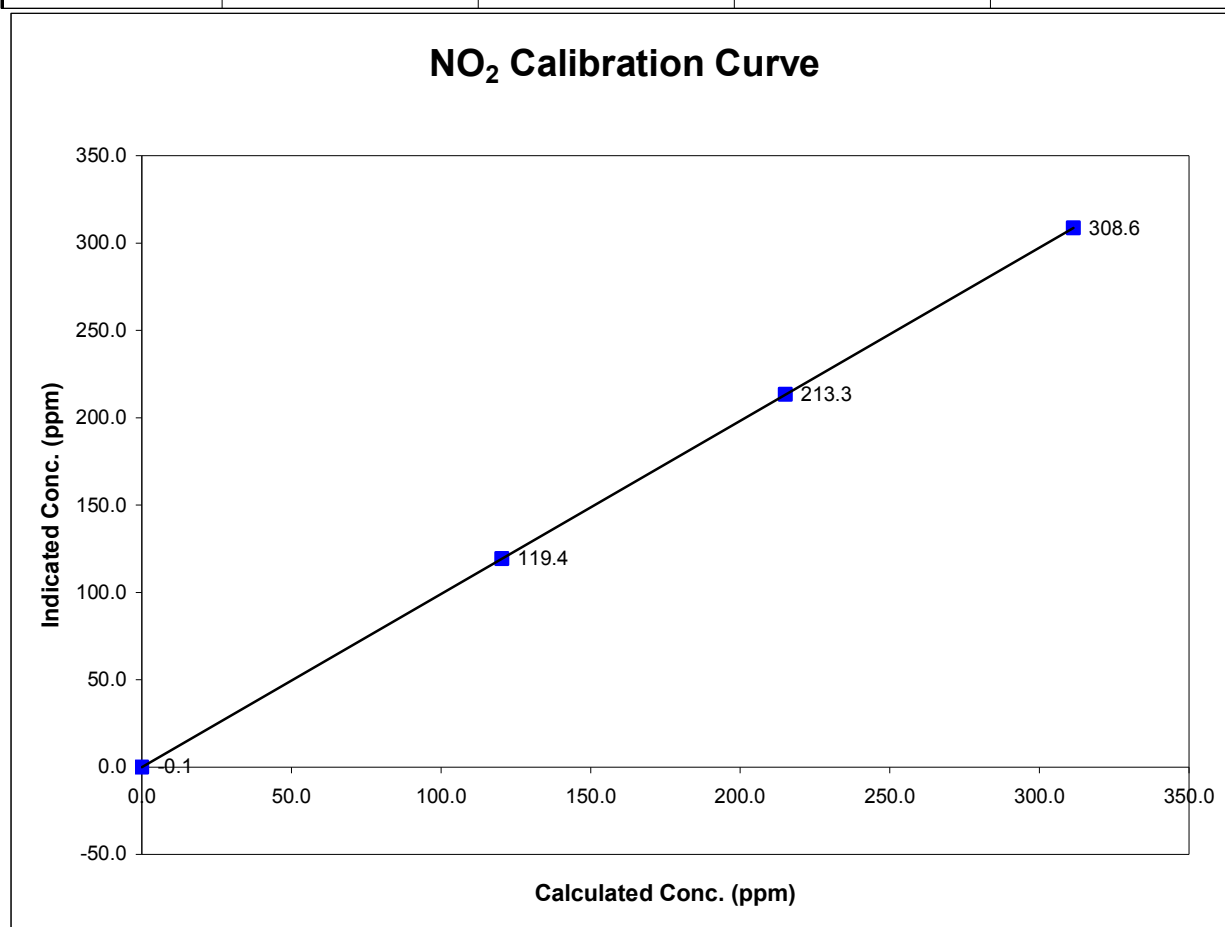


Station Information

Calibration Date	September 21, 2006	Previous Calibration	August 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:10
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	0.0000		
120.4	119.4	1.0087	Correlation Coefficient	1.000000
215.1	213.3	1.0086		
311.4	308.6	1.0089	Slope	1.008477
			Intercept	0.072196



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed



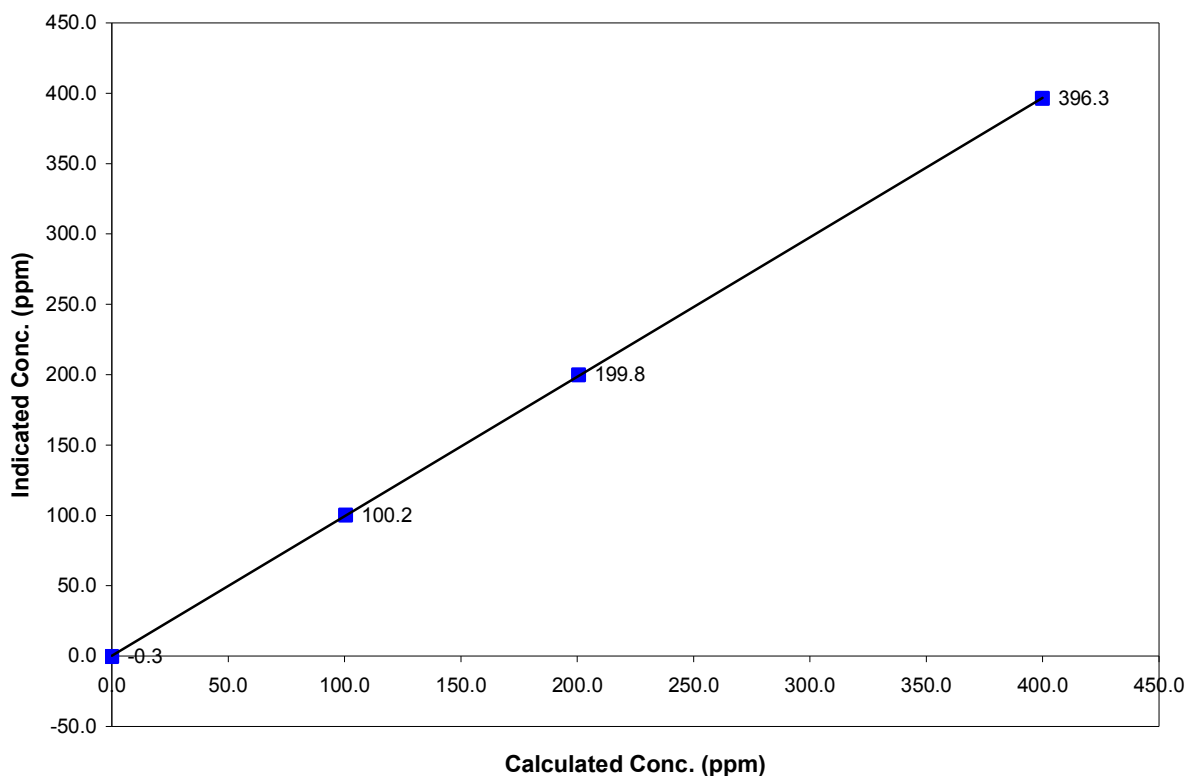
Station Information

Calibration Date	September 21, 2006	Previous Calibration	August 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:10
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000	Correlation Coefficient	0.999987
399.9	396.3	1.0091		
200.6	199.8	1.0039	Slope	1.008640
100.5	100.2	1.0032		

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

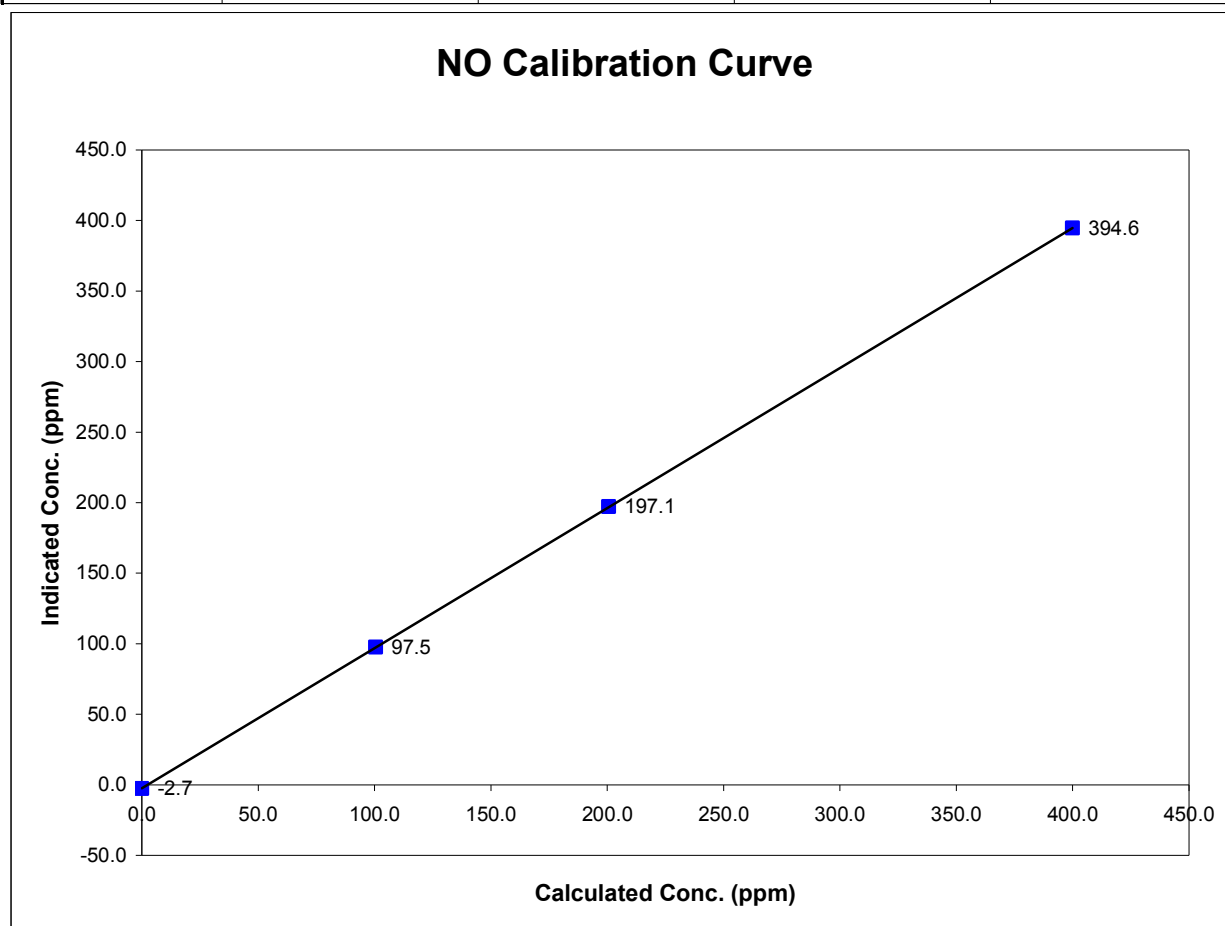


Station Information

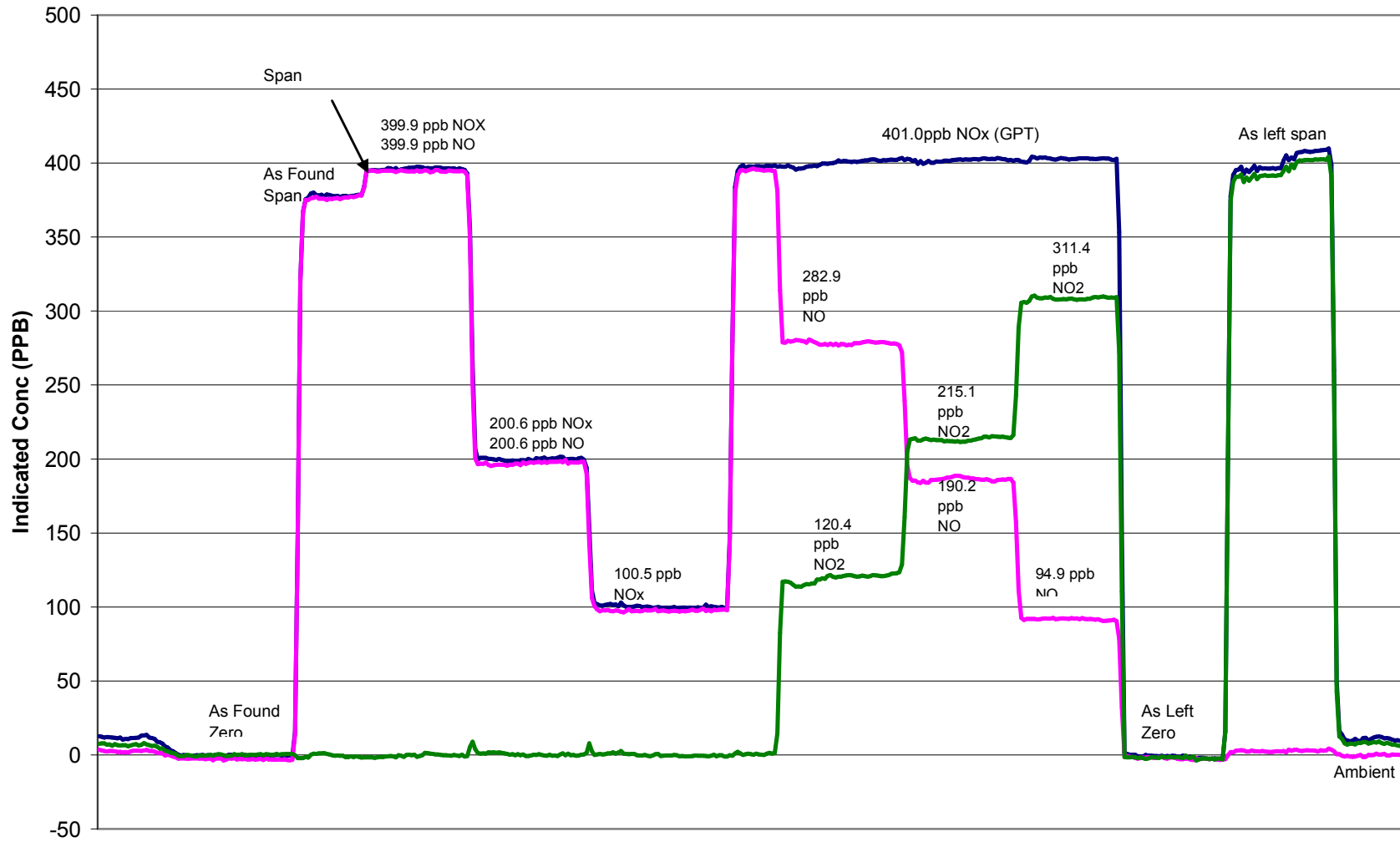
Calibration Date	September 21, 2006	Previous Calibration	August 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:10
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.7	N/A	Correlation Coefficient	0.999998
399.9	394.6	1.0135		
200.6	197.1	1.0177		
100.5	97.5	1.0310		
			Slope	1.006729
			Intercept	2.482774



NOx Calibration



September 21, 2006

Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	September 21, 2006	Previous Calibration	August 30, 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)	13:00	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	0.997900	Calculated slope	1.000829
Calculated intercept	0.053112	Calculated intercept	0.103289
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.77	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	-0.04	N/A
4991	79.77	24.03	23.97	1.0028
4991	39.87	12.11	11.88	1.0189
4991	9.96	3.04	2.93	1.0372
zero	0.00	0.00	-0.05	As Found Zero
4991	79.77	24.03	23.97	As Found Span
Average Correction Factor				1.0196

Calculated value of As Found Response: 24.017 ppm Percent Change of As Found: 0.1%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.06	ppm
Auto span	21.51	ppm	21.18	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

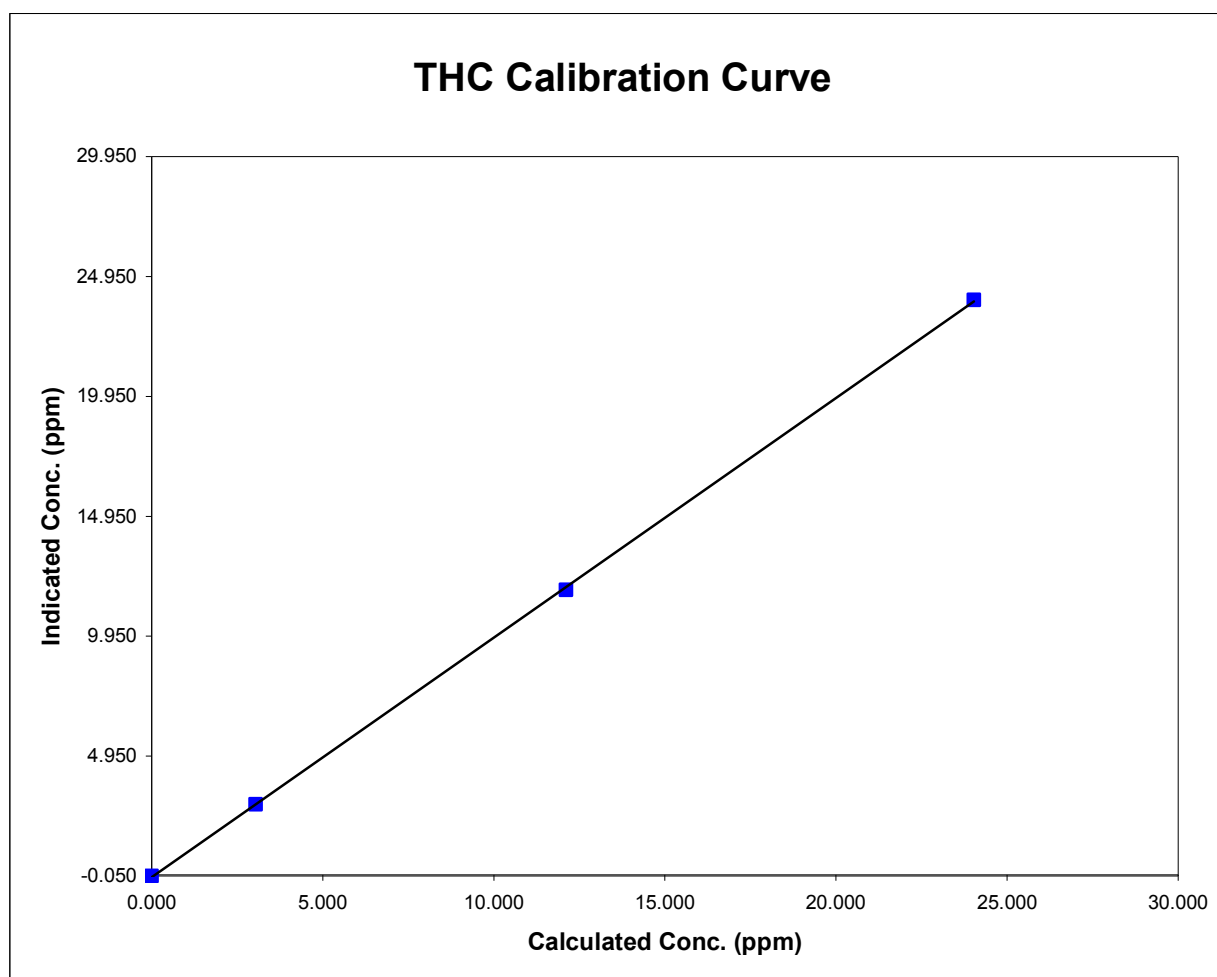


Station Information

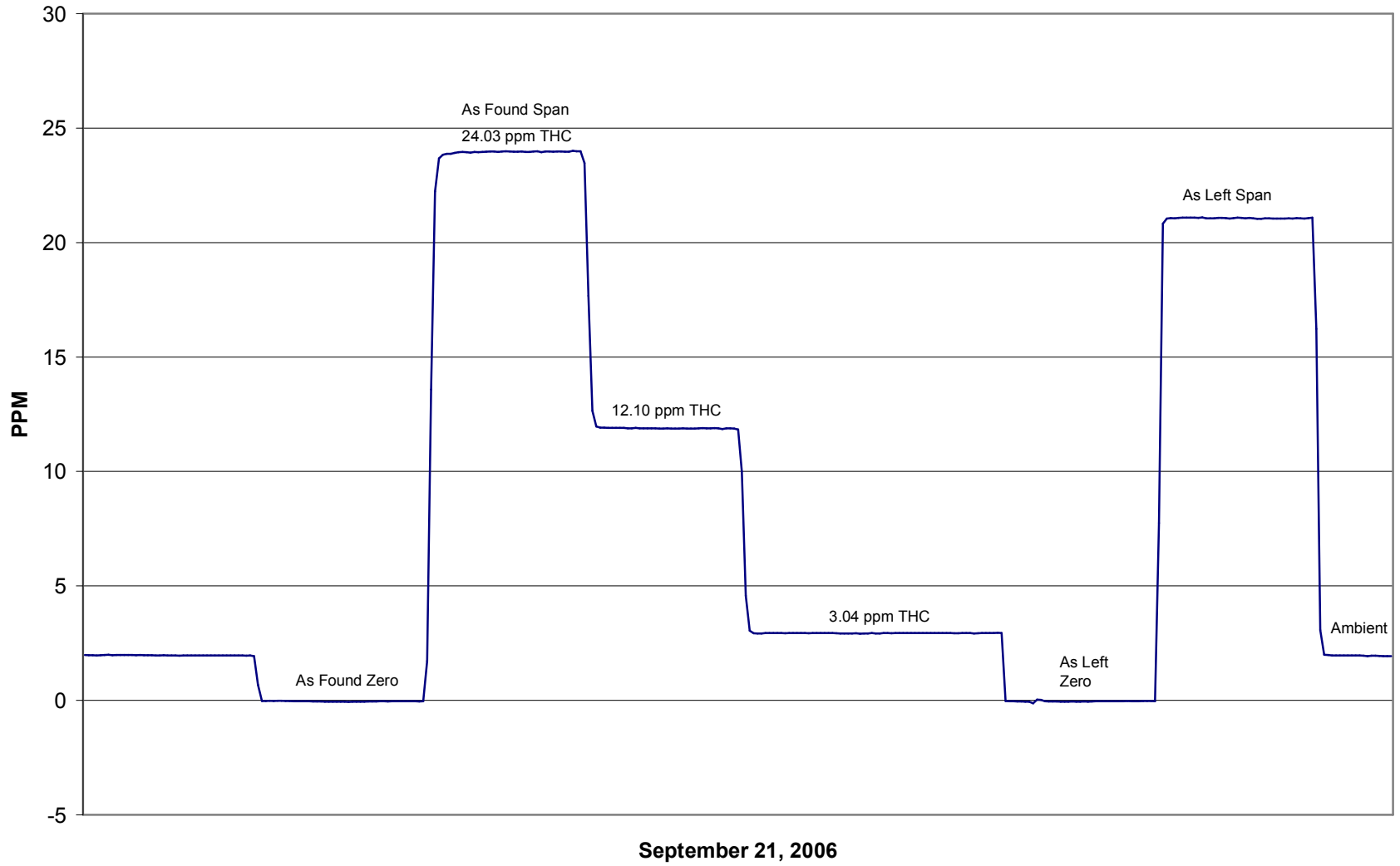
Calibration Date	September 21, 2006	Previous Calibration	August 30, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:00	End Time (MST)	15:50
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.044	N/A		
24.035	23.967	1.0028	Correlation Coefficient	0.999946
12.108	11.883	1.0189		
3.042	2.933	1.0372	Slope	1.000829
			Intercept	0.103289



THC Calibration



Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	September 22, 2006	Previous Calibration	August 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)	12:34	End Time (MST)	15:28
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	0.981470	Calculated slope	1.001980
Calculated intercept	-0.264195	Calculated intercept	0.014782
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	9.920		10.626	
Lamp ratio	1.1484		1.1473	
Lamp intensity	199354	Hz	199743	Hz
Sample Flow	1.011	LPM	1.007	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	0.00	N/A
4991	49.84	29.64	29.58	1.0021
4991	19.91	11.91	11.84	1.0058
4991	9.95	5.97	5.95	1.0038
4991	0.00	0.00	0.64	0.0000
4991	49.84	29.64	31.13	0.9523
Average Correction Factor				1.0039

Calculated value of As Found Response: 29.658 ppm Percent Change of As Found: -0.1%

	before calibration		after calibration	
Auto zero	0.30	ppm	0.06	ppm
Auto span	20.77	ppm	18.09	ppm

Notes: Performed a Zero Adjust

Calibration Performed By: LeninF, Travis Mehrer

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

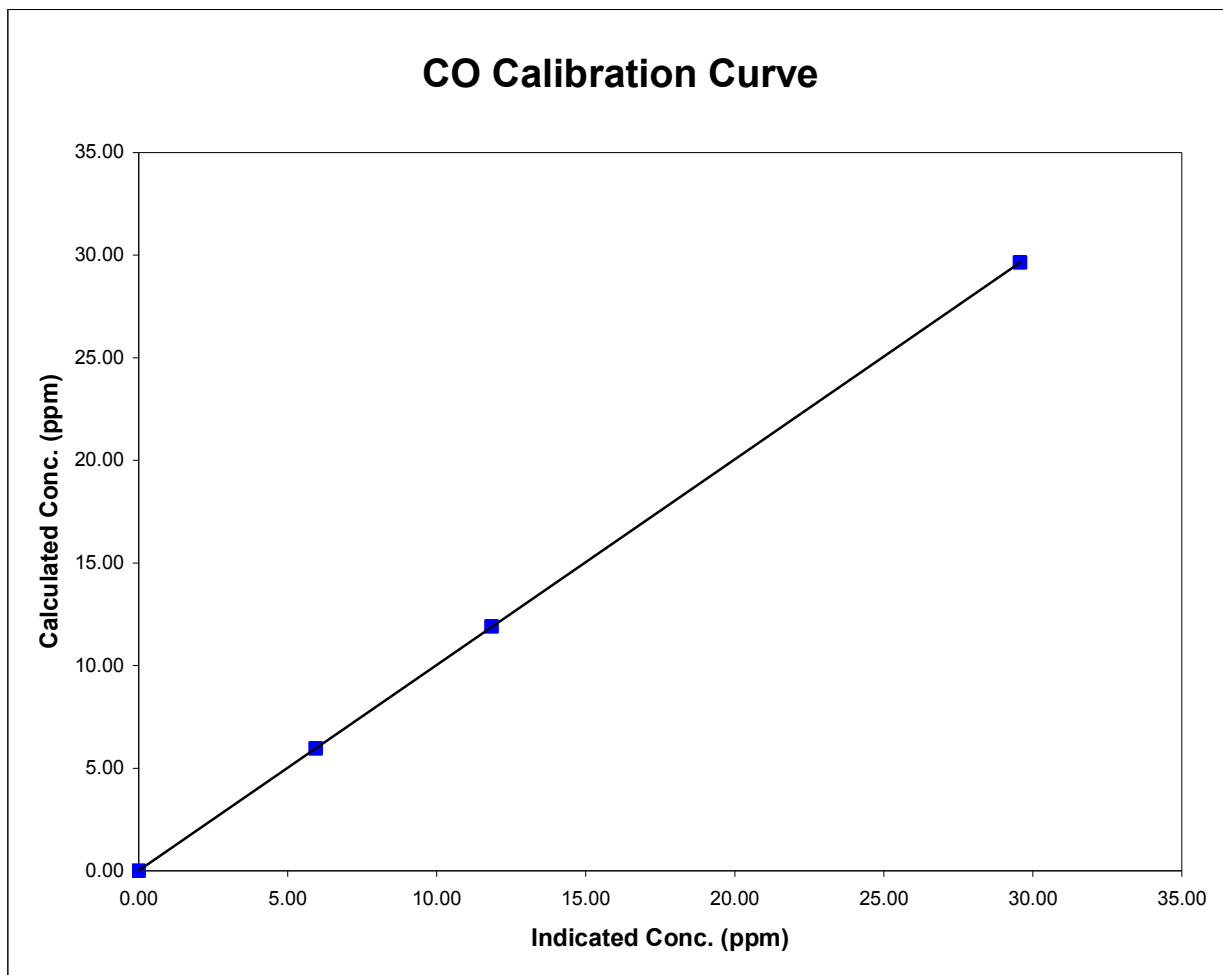


Station Information

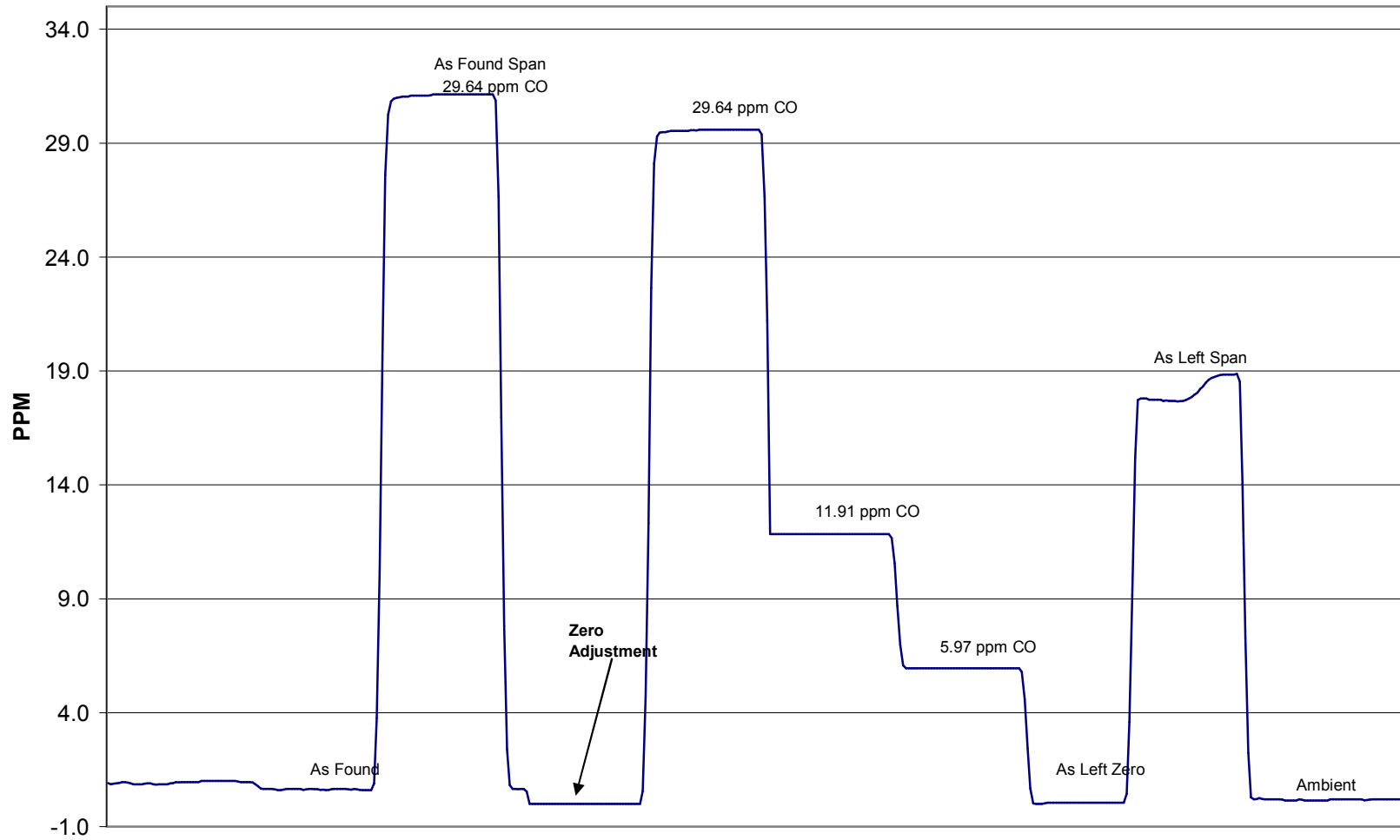
Calibration Date	September 22, 2006	Previous Calibration	August 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	12:34	End Time (MST)	15:28
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
29.64	29.58	1.0021	Correlation Coefficient	0.999997
11.91	11.84	1.0058		
5.97	5.95	1.0038	Slope	1.001980
			Intercept	0.014782



CO Calibration



September 22, 2006

Calibration Report

Parameter PM2.5
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	September 21, 2006	Previous Calibration	August 30, 2006
Station Number	1	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)	13:33	End Time (MST)	15:10
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
	<u>Before</u>		<u>After</u>
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	57%	%	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	12.1	+/- 1.0 Deg C	12.1
Pressure	measured	0.905	+/- 1.5% ΔATM	0.905
Total Flow	16.67 SLPM	16.57		16.57
Auxiliary flow	13.67 SLPM	13.59	+/- 1.0 SLPM	13.59
Main flow	3.0 SLPM	2.990	+/- 0.2 SLPM	2.990
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