



Palliser Airshed Society

Ambient Air Monitoring Network Summary

August 2007

Prepared By:



TABLE OF CONTENTS

Airshed Zone Association – August PAS Ambient Air Summary Report.....	4
PAS - Crescent Heights - AQI Monthly Summary	6
PAS - Crescent Heights Nitrogen Dioxide Monthly Summary	7
PAS - Crescent Heights Nitric Oxide Monthly Summary	12
PAS - Crescent Heights Oxides of Nitrogen Monthly Summary.....	13
PAS - Crescent Heights Ozone Monthly Summary.....	18
PAS - Crescent Heights Ozone Eight Hour Average Summary	23
PAS - Crescent Heights Carbon Monoxide Monthly Summary	24
PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary.....	29
PAS - Crescent Heights Total Hydrocarbons Monthly Summary.....	30
PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Monthly Summary	35
PAS - Crescent Heights Relative Humidity Monthly Summary.....	40
PAS - Crescent Heights Temperature Monthly Summary.....	42
PAS - Crescent Heights Solar Radiation Monthly Summary.....	44
PAS - Crescent Heights Scalar Wind Speed Monthly Summary	46
PAS - Crescent Heights Vector Wind Speed Monthly Summary	47
PAS - Crescent Heights Wind Direction Monthly Summary.....	48
PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary	49
Passive Monitoring – August 2007	51
August 2007 - Calibration Reports.....	55

Table of Figures

Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend.....	8
Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend ..	10
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend.....	14
Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend	17
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend.....	19
Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend	21
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend.....	25
Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend ..	27
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend.....	31
Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend	33
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend.....	36
Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend	38
Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend	41
Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend.....	43
Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend.....	45



September 11, 2007

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

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – August 2007

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

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. All analyzers and instruments were greater than 90% operational for for the month of August.

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

- Monthly average concentrations of NO₂ was 6.0 ppb
- Monthly average concentrations for O₃ was 28.9 ppb
- Monthly average concentrations for CO was 0.13 ppm
- Monthly average concentrations for THC was 1.99 ppm
- Monthly average concentrations for PM_{2.5} was 5.9 µg/m³

The Air Quality Index (AQI) recorded 678 hours of Good readings and 27 hours of Fair readings for the month of August.

Passive Monitoring – Six Sites throughout the PAS zone:

The passive sample analyses were performed by MAXXAM Analytics Inc. The following are the ranges for August 2007 recorded by the six passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.4 to 0.7 ppb with a mean of 0.5 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 7.0 to 9.1 ppb with a mean of 7.6 ppb.
- ◆ Average concentrations for O₃ passives ranged from 53.7 to 78.2 ppb with a mean of 64.6 ppb.

Focus added the NO₂ and SO₂ Provincial Annual Objectives to the passive figures to provide a quick comparison for the reader of the ambient data and the objective.

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

Sharon Whiteley, B.Sc.
AQM Data Specialist

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



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on August 1st (NO_x and CO) and August 2nd (O₃, THC and TEOM). The TEOM calibration was attempted but not completed due to a wasp nest on the roof of the station.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational problems observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational problems observed.
Total Hydrocarbons	Bendix	400A	ppm	No operational problems observed.
Carbon Monoxide	TEI	49C	ppm	No operational problems observed.
PM _{2.5}	R&P TEOM	1400ab	µg/m ³	Five (5) hours were flagged invalid due to excessive baseline drift. No other operational problems observed.
Wind Speed	Met One	010C	kph	No operational problems observed.
Wind Direction	Met One	020C	Deg	No operational problems observed.
Ambient Temperature	Met One	083D	DegC	No operational problems observed.
Relative Humidity	Met One	083D	%	No operational problems observed.
Solar Radiation	Met One	096-1	W/m ²	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



August 2007 Monthly Overall Summary Report Ambient Air Quality Data

Aug-2007		Palliser Airshed Society				Maximum Recorded Values						Operational Time (%)	
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr			24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc		Day
NO (ppb)			Crescent Heights	1.5	-	-	42.8	Aug-30 07:00	3.2	ESE	6.7	Aug-30	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	6.0	0	0	30.3	Aug-30 22:00	5.8	WSW	12.0	Aug-30	100.0%
NO _x (ppb)			Crescent Heights	7.3	-	-	61.1	Aug-30 07:00	3.2	ESE	18.5	Aug-30	100.0%
O ₃ (ppb)	82		Crescent Heights	28.9	0	-	56.4	Aug-17 14:00	5.0	SSE	40.7	Aug-03	100.0%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						51.7	Aug-06	
CO (ppm)	13		Crescent Heights	0.13	0	-	0.6	Aug-19 23:00	10	WSW	0.3	Aug-19	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.5	Aug-20	
THC (ppm)			Crescent Heights	1.99	-	-	3.3	Aug-08 04:00	3.3	NE	2.2	Aug-30	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	5.9	0	0	80.4	Aug-19 23:00	10.0	WSW	23.4	Aug-19	99.3%
RH (%)			Crescent Heights	50.3	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	253.3	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	20.0	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	10.0	-	-	29.5	Aug-26 18:00	29.5	N	17.7	Aug-16	100.0%
WSPD s (km/hr)			Crescent Heights	10.6	-	-	30.1	Aug-26 18:00	30.1	N	18.2	Aug-16	100.0%
WDIR			Crescent Heights	WNW	-	-	-	-	-	-	-	-	100.0%

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



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: August 1, 2007 to September 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	678
Number of 1-hr Fair Readings:	27
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Aug-07	15	13	N	9	6	5	7	10	13	15	18	20	22	21	N	24	25	25	24	22	19	16	13	9
2-Aug-07	11	9	N	8	9	6	8	13	10	6	5	N	21	22	21	23	23	23	23	21	18	16	17	19
3-Aug-07	20	21	N	21	20	19	16	15	17	20	22	23	23	23	26	27	26	24	20	23	20	18	20	
4-Aug-07	26	N	14	11	12	11	11	13	15	17	22	25	26	26	25	24	25	25	23	21	16	14	16	14
5-Aug-07	N	12	12	10	8	8	6	8	13	15	20	22	24	25	25	26	26	24	24	22	18	15	15	N
6-Aug-07	21	22	19	15	18	15	12	15	20	22	24	25	27	27	28	28	28	26	24	23	15	12	N	6
7-Aug-07	7	7	7	8	10	12	11	14	17	18	18	18	19	19	20	21	22	20	15	18	16	N	16	18
8-Aug-07	17	15	12	11	12	8	9	14	18	20	22	23	24	23	20	20	19	19	18	16	N	13	13	12
9-Aug-07	12	11	10	10	8	7	8	9	11	15	17	19	20	20	21	19	19	18	16	N	12	11	10	10
10-Aug-07	10	8	7	7	6	6	5	4	5	5	12	14	16	22	25	24	14	12	N	8	7	7	7	7
11-Aug-07	6	8	6	6	4	2	4	6	11	12	15	17	19	19	20	20	20	N	19	18	17	15	12	13
12-Aug-07	15	15	17	16	12	11	9	12	15	16	17	18	20	21	23	24	N	25	24	22	17	13	17	9
13-Aug-07	9	9	9	5	6	7	8	9	8	11	14	16	17	18	18	N	17	17	16	15	13	10	9	9
14-Aug-07	8	9	8	8	8	7	9	9	12	13	15	18	20	21	N	21	24	24	23	20	16	15	14	12
15-Aug-07	12	11	10	9	6	4	5	6	10	15	19	19	21	N	22	23	23	23	21	17	15	13	12	12
16-Aug-07	12	13	12	11	13	13	11	10	12	15	18	19	N	20	20	21	21	20	19	18	17	17	16	16
17-Aug-07	14	14	14	14	14	13	13	14	15	17	19	N	23	25	30	29	25	22	18	17	22	22	21	22
18-Aug-07	19	19	25	26	15	12	8	7	7	9	N	14	16	19	25	26	25	22	22	20	21	18	20	15
19-Aug-07	21	12	13	16	13	15	14	15	14	N	12	11	10	12	15	20	25	24	21	29	18	36	48	50
20-Aug-07	50	50	33	10	10	13	9	7	N	11	16	18	17	15	16	17	18	17	13	13	14	16	15	14
21-Aug-07	N	8	9	9	8	7	7	N	9	9	11	14	15	16	16	17	18	14	14	13	12	10	10	8
22-Aug-07	10	11	8	9	8	8	N	7	8	10	12	14	15	16	16	15	16	15	15	14	11	8	9	9
23-Aug-07	10	6	7	9	8	N	5	5	8	15	18	19	18	20	20	20	21	21	17	14	13	8	7	8
24-Aug-07	N	N	6	6	N	5	5	4	6	9	14	18	20	20	21	21	21	21	21	14	11	7	8	9
25-Aug-07	10	14	18	N	17	16	15	15	17	19	21	23	25	27	26	24	24	24	24	19	16	17	16	15
26-Aug-07	13	12	N	10	8	6	6	7	10	12	13	16	19	20	19	19	18	15	11	10	10	10	9	7
27-Aug-07	6	N	7	6	4	3	5	3	6	7	9	12	15	14	N	16	16	14	11	9	8	8	7	7
28-Aug-07	N	5	3	3	3	4	5	6	6	10	14	15	16	16	17	17	17	17	15	11	13	10	11	N
29-Aug-07	12	11	10	10	9	8	7	8	10	17	17	17	18	18	19	19	18	17	17	13	7	9	N	5
30-Aug-07	8	4	6	5	4	4	7	6	7	10	12	19	21	21	21	22	21	22	18	14	10	N	16	11
31-Aug-07	10	11	12	12	11	10	11	12	14	17	20	22	22	22	22	22	22	18	15	16	N	15	14	16



PAS - Crescent Heights Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

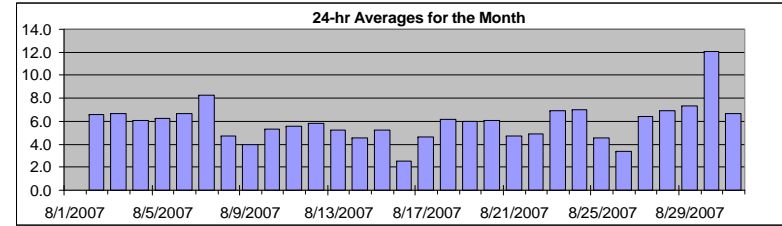
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	30.3	ppb	30-Aug	22:00 23:00
Maximum 24-hr Average:	12.0	ppb	30-Aug	



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	19.2	15.0	7.9	4.7	2.9	1.6	1.2	6.0 ppb	4.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							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-Aug-07	3	6	A	16	16	17	12	C	C	C	C	C	C	C	A	10	7	4	4	6	9	11	12	15	N	17.1	
2-Aug-07	10	11	A	21	14	14	14	8	6	3	3	3	5	2	4	2	3	4	2	3	6	7	3	2	6.6	21.0	
3-Aug-07	2	2	A	11	6	6	11	12	8	5	5	5	6	5	6	3	4	4	5	10	12	11	8	8	6.7	12.4	
4-Aug-07	5	A	13	16	13	10	11	9	8	9	5	6	4	3	3	2	2	2	2	2	5	7	1	3	6.1	16.4	
5-Aug-07	A	13	8	8	9	9	11	7	4	8	4	3	3	3	3	2	2	3	3	4	9	12	9	A	6.2	13.0	
6-Aug-07	11	5	5	9	4	6	8	5	3	4	3	4	3	3	3	2	2	5	7	4	15	17	A	26	6.7	26.4	
7-Aug-07	17	16	10	10	9	10	13	9	4	4	4	4	4	6	7	5	3	7	17	8	5	A	13	6	8.2	16.8	
8-Aug-07	4	5	7	7	8	11	10	5	3	3	2	2	2	1	1	2	2	2	2	2	A	13	7	6	4.7	12.6	
9-Aug-07	5	5	4	4	6	8	7	4	3	2	2	2	3	2	2	2	2	2	2	A	11	6	4	4	4.0	11.4	
10-Aug-07	3	3	3	3	3	3	4	6	8	7	5	4	8	5	4	5	4	3	A	12	8	7	7	8	5.3	12.0	
11-Aug-07	9	8	11	10	9	10	8	7	4	4	3	3	3	3	2	2	1	A	10	5	4	4	6	3	5.5	10.5	
12-Aug-07	2	3	2	2	3	4	7	5	5	3	3	2	3	3	3	3	A	11	8	15	16	17	7	8	5.8	17.4	
13-Aug-07	7	5	5	10	6	6	8	8	4	3	2	2	2	2	2	A	10	5	4	4	4	8	8	5	5.2	10.2	
14-Aug-07	6	3	5	3	3	5	4	5	2	5	5	4	3	3	A	14	8	5	4	4	4	4	3	4	4.6	13.8	
15-Aug-07	4	4	5	5	8	11	10	11	8	5	2	2	2	A	10	5	4	3	3	5	4	3	3	3	5.2	11.3	
16-Aug-07	2	2	2	3	2	2	4	4	3	2	1	1	A	9	4	3	3	2	2	2	2	2	2	2	2.5	9.3	
17-Aug-07	2	1	1	1	1	2	3	2	2	2	2	A	13	7	6	6	6	10	15	14	4	3	3	3	4.6	14.7	
18-Aug-07	4	5	6	4	4	5	7	7	7	4	A	11	10	10	5	3	3	3	3	5	8	11	6	12	6.1	12.4	
19-Aug-07	10	5	5	6	5	5	6	5	6	A	9	8	10	6	5	3	3	5	4	6	8	5	6	6	6.0	10.5	
20-Aug-07	7	4	5	4	4	5	9	8	A	13	8	6	5	8	7	5	4	4	10	7	3	3	4	5	6.1	12.5	
21-Aug-07	5	5	3	3	5	7	7	A	12	9	6	4	4	4	3	3	3	2	2	2	3	6	4	8	4.8	11.8	
22-Aug-07	5	3	6	3	6	4	A	15	8	5	4	3	2	2	2	2	2	2	2	3	9	11	9	7	4.9	14.6	
23-Aug-07	5	10	9	5	7	A	22	19	16	5	2	2	2	1	1	1	1	1	3	6	6	12	12	10	6.9	22.1	
24-Aug-07	8	4	6	7	A	16	10	6	5	4	4	3	2	2	2	2	2	2	3	10	18	19	13	10	7.0	19.2	
25-Aug-07	13	10	2	A	10	5	4	4	4	4	3	3	4	3	2	5	5	3	3	4	4	3	3	3	4.5	13.0	
26-Aug-07	5	4	A	11	7	7	6	5	3	2	1	1	1	1	1	1	1	2	1	2	3	3	4	5	3.4	11.1	
27-Aug-07	6	A	12	7	7	10	13	13	8	9	8	5	4	3	2	2	2	3	4	6	7	5	5	4	6.4	13.3	
28-Aug-07	A	20	14	12	13	13	11	10	7	4	3	2	2	2	2	2	1	3	5	11	4	8	5	A	6.9	20.3	
29-Aug-07	9	6	5	4	6	8	14	19	14	3	3	2	2	2	3	4	3	3	3	7	17	11	A	22	7.3	21.5	
30-Aug-07	11	16	10	13	15	16	16	18	18	17	15	6	2	2	2	2	4	2	9	15	17	A	30	21	12.0	30.3	
31-Aug-07	9	6	4	4	4	6	7	6	6	4	4	5	6	5	4	4	5	9	15	10	A	15	10	5	6.7	15.3	
Hourly Avg	6.5	6.6	6.2	7.4	7.2	8.1	9.2	8.3	6.5	5.1	4.2	3.7	4.1	3.8	3.4	3.5	3.3	3.9	5.2	6.5	7.8	8.4	7.1	7.8			
Hourly Max	16.5	20.3	13.5	21.0	16.3	17.1	22.1	18.8	17.7	16.9	14.9	10.8	12.6	10.5	9.8	13.8	10.0	10.7	16.8	15.0	18.4	19.2	30.3	26.4			

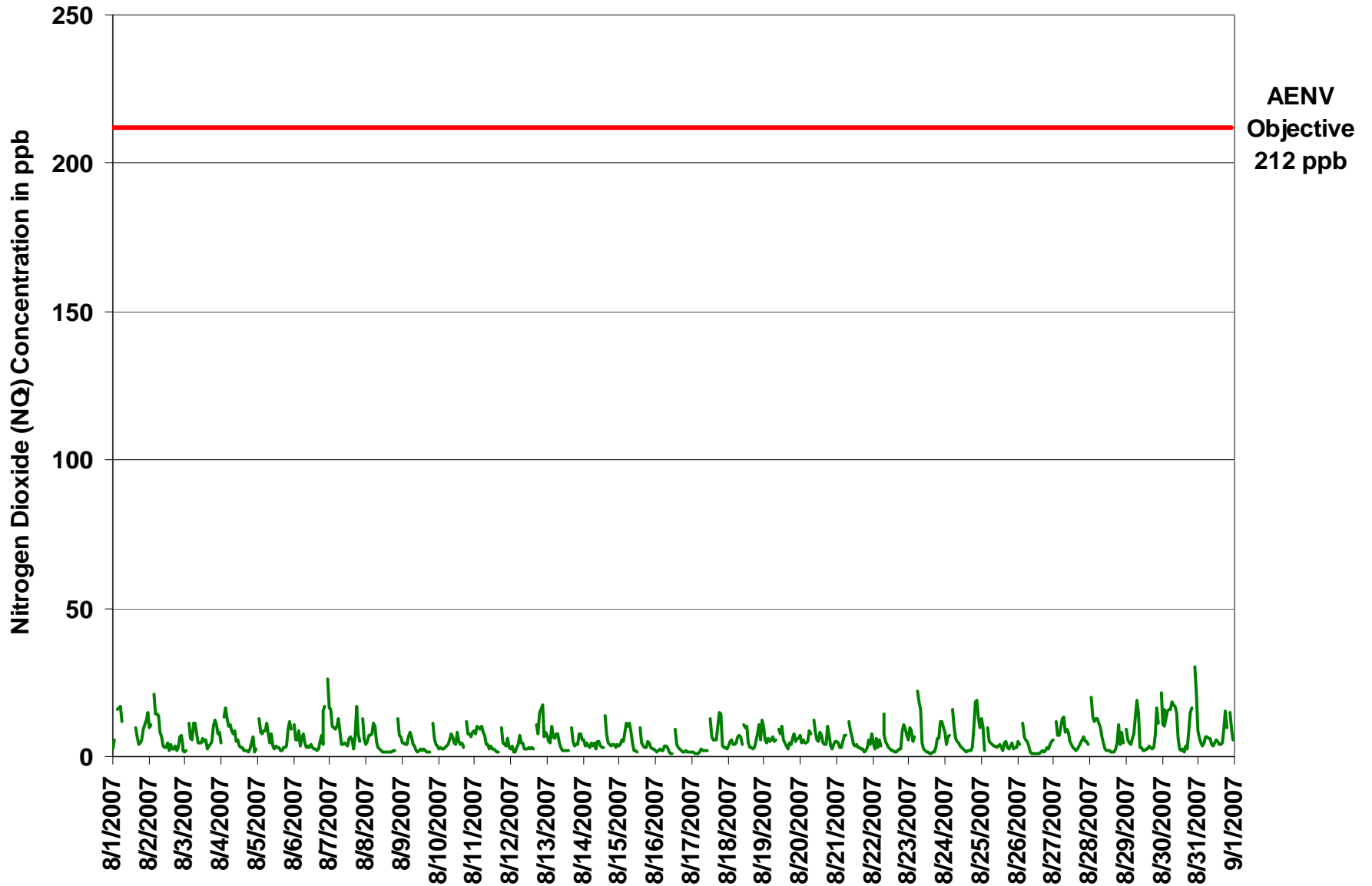


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

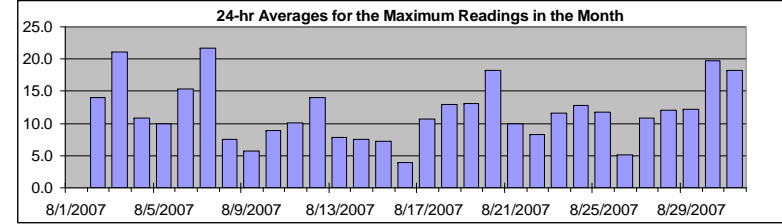
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	59.4	ppb	7-Aug	5:00 6:00
Maximum 24-hr Value:	21.6	ppb	7-Aug	



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.7	32.4	16.9	8.1	4.7	2.6	2.0	11.9 ppb	8.1 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	5	10	A	26	20	29	17	C	C	C	C	C	C	C	A	15	9	6	8	16	21	21	21	N	28.8	
2-Aug-07	12	14	A	36	18	18	20	10	9	6	50	6	39	5	30	4	5	5	4	5	8	9	6	4	14.0	50.4
3-Aug-07	2	16	A	23	41	11	40	30	42	21	27	31	9	9	45	4	15	5	7	16	20	17	12	41	21.0	45.0
4-Aug-07	6	A	17	27	22	20	18	12	11	17	10	24	7	6	6	3	4	3	3	4	10	15	2	4	10.9	27.1
5-Aug-07	A	23	11	10	11	11	16	12	6	11	6	5	5	5	18	4	4	5	4	10	12	15	16	A	10.0	22.7
6-Aug-07	24	7	7	20	7	10	21	10	7	22	12	20	5	5	5	4	4	26	35	6	26	32	A	39	15.4	38.9
7-Aug-07	31	44	14	15	38	59	37	11	21	17	8	16	6	9	28	14	16	18	40	15	8	A	23	7	21.6	59.4
8-Aug-07	5	7	30	10	9	15	14	8	5	4	3	2	3	3	3	2	2	2	3	3	A	19	10	10	7.5	30.2
9-Aug-07	7	7	5	7	9	11	10	7	4	3	2	3	4	3	3	3	2	2	2	A	18	9	6	4	5.8	18.3
10-Aug-07	4	4	3	3	5	4	7	8	11	10	7	6	37	12	6	7	6	5	A	18	8	12	10	10	8.8	36.7
11-Aug-07	13	9	16	14	14	18	22	29	5	5	4	19	3	3	3	2	2	A	19	6	5	5	8	6	10.1	29.1
12-Aug-07	3	6	3	3	5	6	8	7	8	31	19	3	25	15	19	4	A	21	10	38	39	27	8	15	14.0	39.0
13-Aug-07	15	6	6	24	11	8	9	10	8	4	3	3	3	3	3	A	17	6	5	5	5	9	9	7	7.8	23.5
14-Aug-07	9	6	6	5	6	7	7	3	7	6	6	5	4	A	40	9	7	5	5	6	8	4	6	7.6	39.9	
15-Aug-07	4	5	7	7	10	15	12	14	11	10	3	3	2	A	20	6	4	4	5	8	7	4	3	3	7.2	19.5
16-Aug-07	3	3	3	4	3	3	5	5	5	2	2	2	A	20	6	4	4	2	2	2	3	3	2	2	4.0	19.7
17-Aug-07	3	2	2	2	3	3	4	3	3	3	3	A	22	8	7	20	13	45	40	40	7	4	5	6	10.7	44.8
18-Aug-07	6	20	13	6	5	5	23	20	19	11	A	22	15	15	9	4	4	4	4	8	11	21	8	45	12.9	44.7
19-Aug-07	16	8	6	35	7	28	13	13	11	A	26	10	16	7	5	5	3	7	7	19	17	19	16	8	13.1	35.4
20-Aug-07	36	10	23	21	6	31	24	22	A	16	30	19	7	26	19	11	7	6	34	24	7	6	7	26	18.2	36.2
21-Aug-07	7	8	5	17	8	18	19	A	20	10	8	6	22	8	4	9	5	4	2	4	6	9	9	21	9.9	22.4
22-Aug-07	11	4	13	5	13	7	A	22	10	9	8	5	5	3	4	3	3	4	4	5	18	13	12	10	8.3	21.7
23-Aug-07	10	17	17	8	12	A	31	22	21	11	4	3	4	3	3	3	3	3	7	19	10	20	17	22	11.7	31.2
24-Aug-07	23	5	16	10	A	22	14	14	7	13	5	6	10	3	3	11	4	5	10	17	29	27	20	20	12.8	28.9
25-Aug-07	27	41	4	A	18	6	5	5	13	5	4	20	25	11	4	20	20	6	6	7	8	4	6	5	11.8	40.8
26-Aug-07	10	7	A	20	8	8	7	6	5	3	2	2	2	1	2	2	2	3	3	4	5	4	6	6	5.2	19.9
27-Aug-07	8	A	20	8	10	12	16	45	11	15	10	7	16	4	3	9	4	5	6	7	9	10	8	6	10.9	45.5
28-Aug-07	A	29	16	13	31	32	15	12	18	6	3	3	3	12	2	3	5	6	9	19	8	13	6	A	12.0	32.3
29-Aug-07	17	7	5	5	9	14	22	21	25	5	10	3	3	6	4	15	15	5	5	10	27	21	A	25	12.1	27.4
30-Aug-07	16	25	19	18	17	25	19	20	22	24	23	11	4	5	24	4	7	5	33	27	22	A	50	32	19.7	50.2
31-Aug-07	13	9	6	6	6	9	8	9	29	6	20	23	23	36	6	10	7	42	33	33	A	57	21	8	18.2	57.0
Hourly Avg	12.0	12.4	10.9	13.6	12.8	15.6	16.0	14.4	12.7	10.6	10.9	9.9	11.4	8.7	10.2	8.2	6.8	8.9	11.8	13.3	12.9	14.9	11.4	14.5		
Hourly Max	36.2	44.5	30.2	35.8	40.8	59.4	39.9	45.5	41.7	31.2	50.4	31.1	38.8	36.4	45.0	39.9	20.4	44.8	40.0	40.3	39.0	57.0	50.2	44.7		

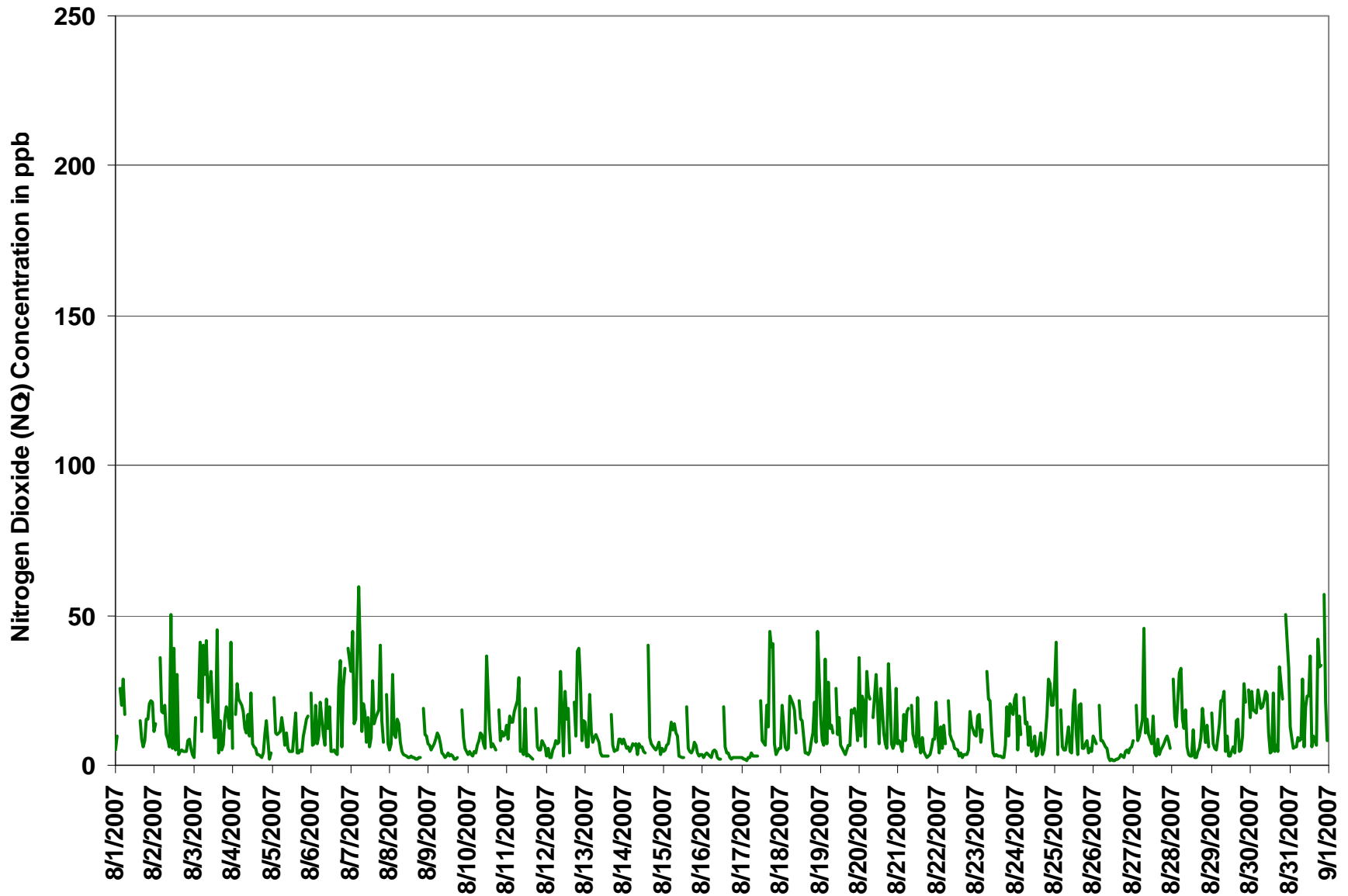
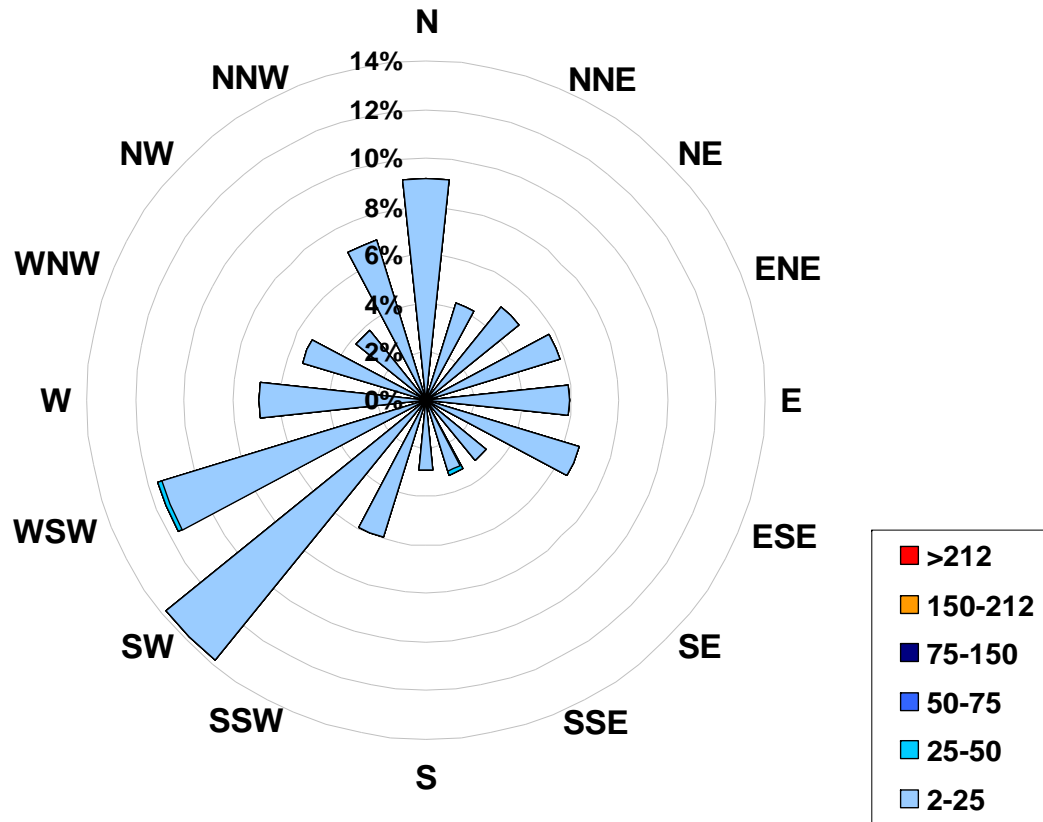


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		701
25	to 50		2
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			703



PAS - Crescent Heights Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

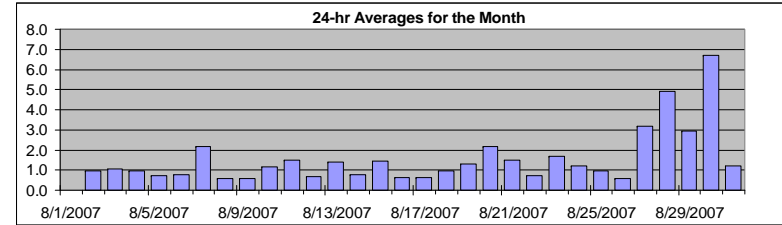
Nitric Oxide (NO)

Monitoring Dates: August 1, 2007 to September 1, 2007

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

Maximum 1-hr Average:	42.8	ppb	30-Aug	7:00	8:00
Maximum 24-hr Average:	6.7	ppb	30-Aug		



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.0	5.6	1.3	0.6	0.3	0.0	0.0	1.5 ppb	0.6 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	0:00		
1-Aug-07	0	0	A	0	0	6	6	C	C	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	6.4
2-Aug-07	0	0	A	1	1	2	5	3	2	1	1	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1.0	5.2
3-Aug-07	0	0	A	0	1	0	4	2	3	1	1	2	1	1	4	0	0	0	0	0	0	0	1	0	2	1.1	4.1
4-Aug-07	0	A	1	1	1	1	2	3	3	3	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1.0	3.4
5-Aug-07	A	1	1	0	0	1	4	3	1	3	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0.7	3.7	
6-Aug-07	0	0	0	0	0	0	2	1	0	1	0	1	0	0	0	0	0	1	1	0	1	2	A	7	0.8	6.6	
7-Aug-07	1	7	0	1	4	4	5	3	2	2	2	2	2	3	3	2	1	1	4	1	0	A	1	0	2.2	6.5	
8-Aug-07	0	0	2	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0.6	2.7	
9-Aug-07	0	0	0	0	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0.6	2.0	
10-Aug-07	0	0	0	0	0	0	1	1	4	3	3	2	4	1	0	0	1	1	A	1	1	1	0	0	1.1	3.9	
11-Aug-07	0	0	1	1	1	7	8	8	2	2	1	1	1	0	0	0	0	A	1	0	0	0	0	0	1.5	7.8	
12-Aug-07	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	0	A	1	1	1	1	1	0	0	0.7	1.9	
13-Aug-07	0	0	0	9	1	1	4	6	2	1	0	0	1	1	0	A	1	0	0	0	0	0	0	0	1.4	9.2	
14-Aug-07	0	0	0	0	0	1	1	2	1	2	2	1	1	1	A	3	1	1	1	0	0	0	0	0	0.8	2.8	
15-Aug-07	0	0	0	0	1	2	5	11	5	2	1	0	1	A	1	1	0	0	1	1	0	0	0	0	1.5	10.9	
16-Aug-07	0	0	0	0	0	0	1	2	2	1	1	1	A	1	1	1	0	0	1	0	0	0	0	0	0.6	2.2	
17-Aug-07	0	0	0	0	0	0	1	0	1	0	1	A	1	1	1	1	0	0	1	3	1	1	0	0	0.6	3.0	
18-Aug-07	0	0	0	0	0	0	2	3	4	2	A	2	2	2	1	0	0	0	0	0	0	0	0	2	1.0	3.8	
19-Aug-07	0	0	0	2	0	2	6	3	3	A	3	2	4	1	1	0	0	0	0	1	1	0	0	0	1.3	5.8	
20-Aug-07	3	0	2	2	0	2	3	8	A	4	2	1	1	4	3	1	1	1	5	2	0	0	0	1	2.2	7.6	
21-Aug-07	0	1	0	1	1	3	5	A	4	5	3	2	2	1	1	1	1	1	0	0	0	0	2	1.5	5.2		
22-Aug-07	0	0	0	0	1	1	A	5	3	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0.7	4.6	
23-Aug-07	0	0	0	0	0	A	7	13	12	2	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1.7	12.7	
24-Aug-07	1	0	1	0	A	3	5	4	3	2	1	0	1	0	0	1	0	0	0	1	2	1	0	1	1.2	4.5	
25-Aug-07	1	7	0	A	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0	0	1.0	7.0	
26-Aug-07	0	1	A	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.6	1.5	
27-Aug-07	1	A	1	1	1	2	17	14	5	10	7	3	2	1	1	1	1	1	1	1	1	1	1	0	3.2	17.1	
28-Aug-07	A	2	1	2	15	29	21	23	8	3	1	0	0	1	0	0	0	0	1	1	0	1	0	A	4.9	28.7	
29-Aug-07	0	0	0	0	0	1	16	25	13	1	1	1	1	1	0	1	1	1	0	1	3	1	A	1	3.0	24.7	
30-Aug-07	1	5	1	1	1	12	22	43	22	16	9	2	1	0	1	1	1	1	1	1	1	1	A	8	6	6.7	42.8
31-Aug-07	0	0	0	0	0	1	1	2	3	1	1	2	1	3	1	1	0	2	1	1	A	3	0	0	1.2	3.3	
Hourly Avg	0.5	1.0	0.5	0.9	1.1	2.9	5.3	6.7	3.8	2.5	1.6	1.1	1.1	0.9	0.9	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.6	0.9			
Hourly Max	3.3	7.0	2.1	9.2	14.8	28.7	21.6	42.8	22.1	15.6	8.7	3.1	3.9	3.7	4.1	2.8	1.2	3.0	5.4	1.9	2.6	2.9	8.2	6.6			



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

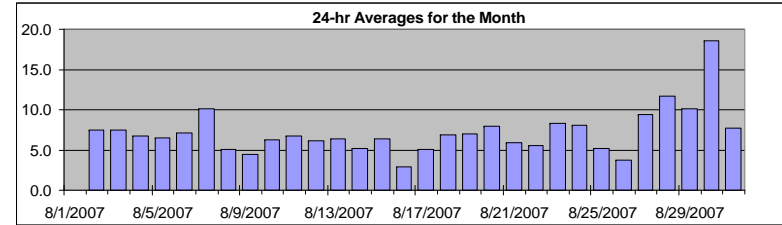
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Maximum 1-hr Average:	61.1	ppb	30-Aug	7:00 8:00
Maximum 24-hr Average:	18.5	ppb	30-Aug	



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	32.3	19.0	9.3	5.2	3.0	1.7	1.2	7.3 ppb	5.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	2	5	A	16	16	23	17	C	C	C	C	C	C	C	A	8	5	2	3	4	8	10	12	14	N	23.1	
2-Aug-07	9	11	A	22	15	16	19	11	9	4	4	3	7	3	7	2	3	4	2	3	6	7	3	2	7.4	21.9	
3-Aug-07	1	2	A	12	7	6	15	14	11	6	6	6	6	5	10	3	4	4	5	10	13	11	8	9	7.5	14.6	
4-Aug-07	5	A	14	17	13	11	13	11	10	12	6	7	4	3	3	2	2	2	1	2	5	7	1	2	6.8	16.9	
5-Aug-07	A	13	8	8	9	9	15	10	5	10	4	3	4	3	3	2	2	2	2	3	9	12	9	A	6.5	14.9	
6-Aug-07	10	5	5	8	3	6	10	5	3	4	3	5	3	3	3	2	2	5	7	4	16	19	A	33	7.1	32.7	
7-Aug-07	17	22	11	10	13	14	18	11	5	5	6	6	5	8	9	7	4	8	20	8	5	A	13	6	10.2	22.2	
8-Aug-07	5	5	9	7	8	12	13	7	3	3	2	2	2	2	2	2	2	2	2	2	A	13	8	7	5.1	13.2	
9-Aug-07	5	5	4	4	7	9	8	5	5	3	2	2	3	2	3	2	2	2	2	A	12	7	4	4	4.4	12.0	
10-Aug-07	3	3	3	3	3	3	5	7	11	10	8	6	12	6	4	5	4	4	A	13	8	8	7	9	6.3	12.9	
11-Aug-07	9	8	11	10	10	17	16	15	6	6	3	5	3	3	2	2	1	A	10	5	4	4	6	3	6.8	17.0	
12-Aug-07	2	3	1	2	3	4	8	6	5	4	3	3	3	3	3	3	A	11	8	16	17	18	7	9	6.2	17.8	
13-Aug-07	7	5	5	19	7	7	11	14	6	4	2	2	2	2	A	10	5	4	4	4	8	8	6	6	6.4	19.2	
14-Aug-07	6	4	5	3	3	5	4	6	3	7	7	5	4	4	A	16	8	5	4	4	4	4	3	4	5.1	16.3	
15-Aug-07	4	4	5	5	8	13	15	22	13	6	2	2	2	A	10	5	4	3	3	5	5	3	3	3	6.3	21.7	
16-Aug-07	2	2	2	3	2	2	4	6	4	2	2	1	A	10	5	4	3	2	2	2	2	2	2	2	2.9	10.0	
17-Aug-07	2	2	1	1	1	2	3	2	2	2	3	A	14	7	6	6	6	13	16	16	4	3	3	3	5.1	15.9	
18-Aug-07	4	5	6	4	4	5	9	10	10	5	A	12	12	13	5	3	3	2	3	5	8	11	5	14	6.9	14.2	
19-Aug-07	11	5	5	8	5	7	12	8	8	A	11	9	14	7	5	3	2	4	4	7	8	5	6	6	7.0	13.8	
20-Aug-07	10	4	7	7	5	7	11	15	A	17	10	6	6	12	10	6	5	5	15	9	4	3	4	6	8.0	16.8	
21-Aug-07	5	5	3	4	5	10	12	A	15	14	9	5	5	5	3	3	3	3	1	2	3	5	4	9	6.0	15.2	
22-Aug-07	5	3	6	3	6	4	A	19	11	7	5	3	3	2	2	2	2	2	2	3	9	11	9	7	5.5	19.0	
23-Aug-07	5	10	9	5	6	A	29	31	27	6	3	2	2	1	1	1	1	1	1	3	7	6	13	12	10	8.3	31.0
24-Aug-07	9	4	7	8	A	20	15	10	8	6	4	3	3	2	2	3	2	2	3	11	20	20	13	10	8.1	19.9	
25-Aug-07	14	16	2	A	10	5	5	5	5	4	3	4	5	4	2	6	6	3	3	4	5	3	3	3	5.2	16.3	
26-Aug-07	5	5	A	12	7	8	7	6	4	2	1	1	1	1	1	1	1	2	2	2	3	3	5	5	3.8	11.8	
27-Aug-07	6	A	13	8	8	11	30	28	13	19	15	8	6	4	3	3	3	4	5	6	8	6	6	4	9.4	29.9	
28-Aug-07	A	22	14	13	28	42	32	32	14	7	4	2	2	3	2	2	2	3	5	12	4	8	5	A	11.7	41.7	
29-Aug-07	9	6	5	4	6	9	30	43	27	4	4	3	2	3	3	4	3	3	3	7	19	12	A	22	10.1	43.4	
30-Aug-07	11	20	11	14	17	27	38	61	40	32	23	8	3	2	3	2	4	3	9	16	17	A	38	27	18.5	61.1	
31-Aug-07	9	7	5	4	5	7	8	8	9	5	5	6	7	8	5	5	5	11	17	11	A	18	10	4	7.7	17.9	
Hourly Avg	6.7	7.3	6.5	8.1	8.1	10.8	14.3	14.7	10.1	7.5	5.6	4.6	5.0	4.5	4.1	3.8	3.5	4.1	5.6	6.7	8.1	8.7	7.5	8.4			
Hourly Max	17.3	22.2	14.0	21.9	27.7	41.7	37.6	61.1	39.8	32.3	23.4	12.3	13.8	12.7	10.4	16.3	10.4	13.2	20.3	15.9	19.8	19.9	38.2	32.7			

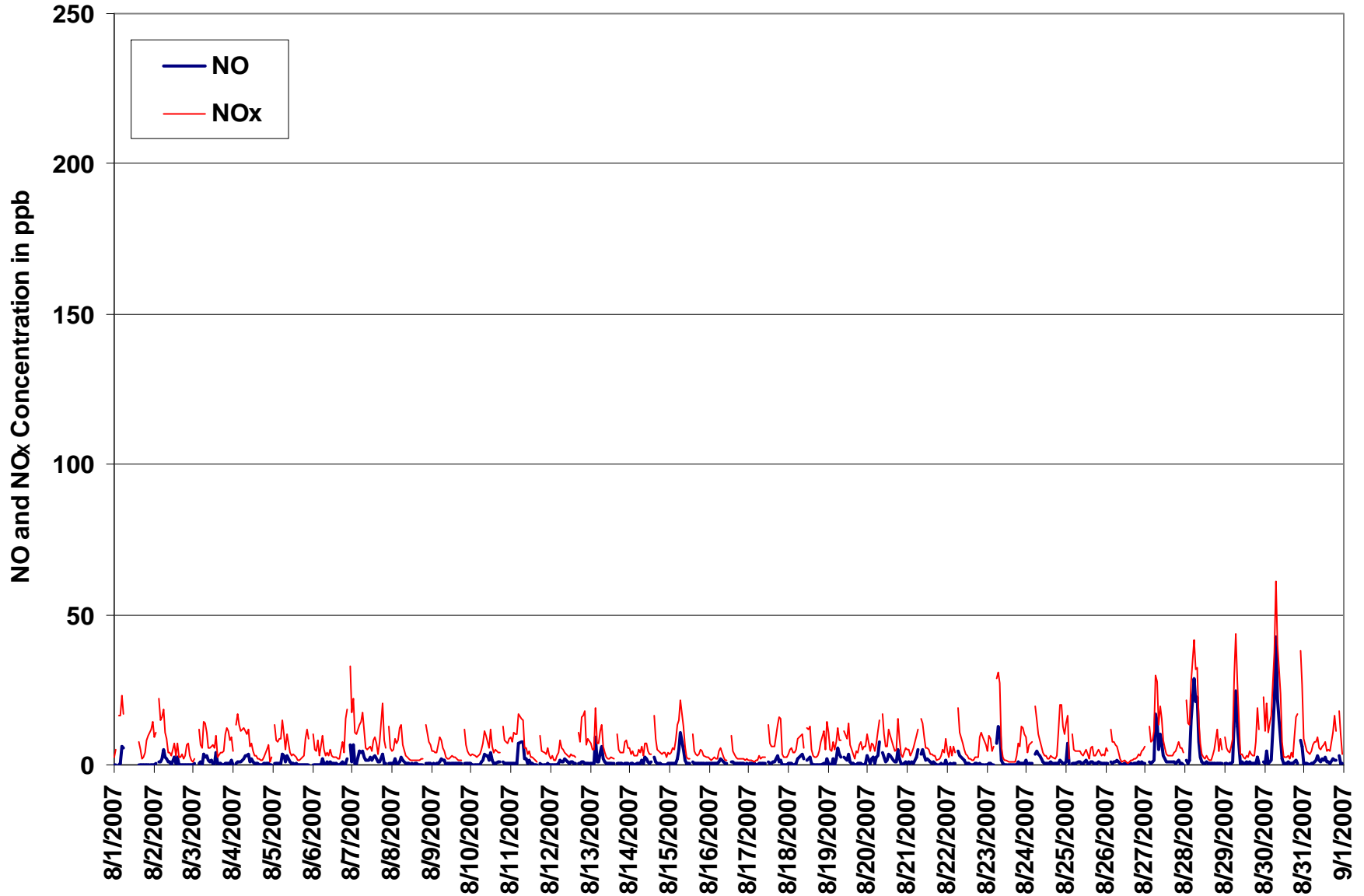


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

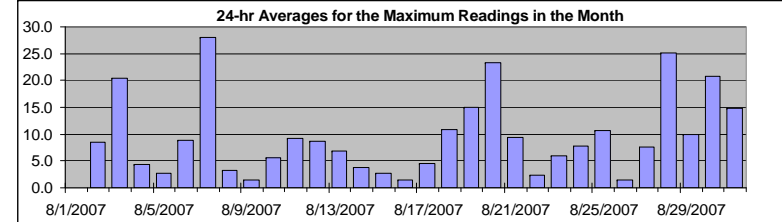
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	254.3	ppb	28-Aug	5:00 6:00
Maximum 24-hr Value:	28.0	ppb	7-Aug	



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	100.9	48.5	5.6	1.8	1.1	0.7	0.5	9.4 ppb	1.8 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-Aug-07	2	1	A	1	2	31	9	C	C	C	C	C	C	C	A	0	1	1	0	1	1	1	1	1	N	31.4
2-Aug-07	0	1	A	4	2	5	11	4	4	3	41	2	57	7	46	1	1	1	0	0	1	1	0	1	8.4	57.5
3-Aug-07	0	13	A	17	35	1	50	31	64	38	23	34	1	2	94	1	4	1	1	1	4	1	1	51	20.4	93.8
4-Aug-07	1	A	1	3	2	4	5	6	5	30	4	25	2	1	1	1	1	1	1	1	1	1	1	1	4.3	30.4
5-Aug-07	A	1	1	1	1	2	12	6	3	5	2	2	2	1	13	1	1	0	1	0	1	1	1	A	2.6	12.7
6-Aug-07	1	1	1	6	1	2	13	2	2	22	6	21	2	1	1	1	1	11	8	1	2	18	A	83	8.8	82.8
7-Aug-07	14	182	1	2	128	113	49	4	23	13	4	21	3	4	26	6	16	3	28	2	1	A	2	1	28.0	181.7
8-Aug-07	1	2	40	1	1	3	6	3	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	2	3.2	39.9
9-Aug-07	1	1	1	1	2	3	4	3	2	1	1	1	2	1	2	1	1	1	1	A	1	1	1	1	1.5	3.6
10-Aug-07	1	1	1	1	1	1	3	4	10	6	6	3	74	4	1	2	2	A	2	2	1	1	1	1	5.7	74.0
11-Aug-07	2	1	2	2	2	51	56	55	3	3	2	22	1	1	1	1	1	A	1	1	1	1	1	1	9.2	56.0
12-Aug-07	1	1	1	1	1	1	3	2	2	69	21	1	32	24	13	1	A	2	1	13	5	2	1	1	8.6	69.0
13-Aug-07	1	2	1	101	5	3	8	9	6	2	1	1	2	1	1	A	1	1	1	2	1	1	1	1	6.8	101.1
14-Aug-07	1	1	1	1	1	2	3	4	2	4	3	3	2	2	A	47	2	1	1	1	1	1	1	1	3.8	47.1
15-Aug-07	1	1	1	1	2	5	8	16	7	5	1	1	1	A	1	1	2	1	2	1	1	1	1	1	2.8	16.0
16-Aug-07	1	1	1	2	2	1	2	3	3	2	1	1	A	2	2	1	2	1	1	1	1	1	1	1	1.5	3.3
17-Aug-07	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	7	3	42	17	16	1	1	1	1	4.6	42.1
18-Aug-07	1	10	2	1	1	1	64	40	28	10	A	16	6	5	2	1	1	1	1	1	1	1	1	57	10.8	63.9
19-Aug-07	1	1	1	80	23	70	32	50	13	A	45	4	8	2	1	1	1	2	1	3	2	1	1	1	15.0	80.3
20-Aug-07	111	4	32	46	1	62	21	63	A	8	37	8	2	19	13	9	2	2	55	25	1	1	2	12	23.4	111.4
21-Aug-07	1	4	1	27	4	29	69	A	7	8	5	3	25	5	2	8	3	2	1	1	2	1	1	9	9.5	68.8
22-Aug-07	3	1	2	1	3	2	A	8	6	5	4	3	2	2	2	1	1	2	2	1	2	1	2	2	2.4	7.6
23-Aug-07	1	3	3	1	2	A	19	17	20	7	2	1	2	2	1	2	1	1	3	21	2	3	3	20	5.9	20.8
24-Aug-07	19	1	3	2	A	39	9	22	5	17	2	4	9	1	1	7	2	3	5	2	17	3	3	4	7.8	39.4
25-Aug-07	9	144	1	A	2	1	2	2	14	1	1	11	22	4	1	10	6	2	2	3	3	3	2	1	10.7	144.1
26-Aug-07	1	2	A	1	1	2	2	3	2	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	1.5	2.5
27-Aug-07	3	A	2	2	2	5	26	45	11	24	11	4	19	2	2	3	2	3	2	2	3	2	2	1	7.7	44.9
28-Aug-07	A	6	2	4	104	254	60	32	50	4	2	1	1	15	1	1	4	2	2	3	2	2	1	A	25.2	254.3
29-Aug-07	1	1	1	1	1	23	63	39	46	2	5	2	1	3	1	14	6	2	1	2	9	2	A	2	10.0	62.5
30-Aug-07	1	17	4	3	3	48	44	58	36	35	20	4	2	2	24	8	2	1	19	6	3	A	62	76	20.8	76.0
31-Aug-07	1	2	1	1	2	2	4	3	31	3	18	18	21	35	2	8	1	47	12	35	A	90	6	1	14.8	89.9
Hourly Avg	6.4	14.0	4.0	10.5	11.3	25.5	21.9	18.5	14.0	11.4	9.3	7.6	10.5	5.3	8.9	5.0	2.4	4.6	5.7	4.9	2.6	5.0	3.5	11.6		
Hourly Max	111.4	181.7	39.9	101.1	127.6	254.3	68.8	63.3	63.5	69.0	45.0	34.3	74.0	34.6	93.8	47.1	16.5	46.6	55.2	34.6	17.4	89.9	61.9	82.8		



Station: Crescent Heights
 Station Owner: PAS

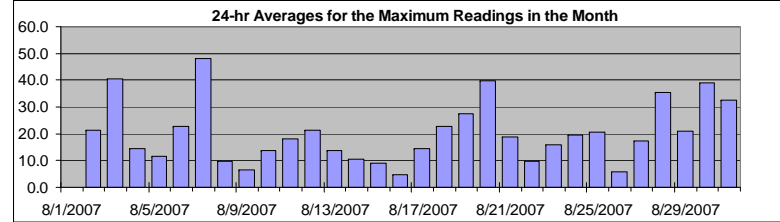
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	284.8	ppb	28-Aug	5:00 6:00
Maximum 24-hr Value:	47.9	ppb	7-Aug	



AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	137.8	76.3	21.4	9.7	5.3	2.8	2.1	20.1 ppb	9.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	5	9	A	26	21	57	24	C	C	C	C	C	C	C	A	14	8	5	7	15	16	20	21	21	N	56.6
2-Aug-07	11	14	A	39	19	23	31	15	12	8	92	7	97	12	64	4	5	5	4	5	9	9	5	3	21.4	97.1
3-Aug-07	2	30	A	37	76	11	89	61	103	59	50	61	10	11	138	4	18	5	7	16	20	17	12	93	40.5	138.1
4-Aug-07	6	A	17	29	24	23	23	18	15	48	13	50	9	7	6	4	4	3	2	4	10	15	2	4	14.5	49.5
5-Aug-07	A	23	12	10	12	13	28	18	8	15	6	6	5	5	28	4	4	5	4	10	11	15	15	A	11.7	27.6
6-Aug-07	24	7	6	25	7	11	33	12	8	41	17	38	6	5	6	5	4	36	40	6	27	47	A	118	22.9	117.6
7-Aug-07	45	226	14	17	141	171	85	15	44	31	10	34	9	14	53	19	30	21	66	16	8	A	24	7	47.9	226.3
8-Aug-07	6	8	68	11	9	17	19	10	5	4	3	3	3	3	3	3	2	2	3	3	A	19	11	10	9.8	68.5
9-Aug-07	7	7	5	7	10	13	12	10	6	4	3	3	5	4	4	3	3	2	3	A	19	10	6	4	6.5	19.3
10-Aug-07	4	5	4	3	4	4	10	11	20	17	12	7	111	16	7	8	7	6	A	20	9	13	10	11	13.9	111.1
11-Aug-07	14	9	18	15	15	65	73	84	8	7	5	40	4	4	3	2	2	A	20	6	5	5	8	6	18.2	84.1
12-Aug-07	3	6	2	2	5	6	10	9	9	94	38	4	54	37	31	4	A	22	11	51	43	28	8	15	21.4	93.7
13-Aug-07	15	6	6	123	15	10	17	18	14	6	3	3	5	4	3	A	18	7	5	6	5	9	9	8	13.8	123.3
14-Aug-07	9	6	7	5	6	8	10	11	5	11	9	9	6	5	A	80	10	8	6	5	6	8	4	6	10.3	79.7
15-Aug-07	5	5	7	6	11	19	18	28	17	14	3	3	3	A	21	6	5	4	5	7	7	4	3	4	9.0	28.1
16-Aug-07	3	3	3	4	3	3	6	8	7	3	3	3	A	20	7	5	4	3	3	2	3	2	2	3	4.5	20.4
17-Aug-07	3	3	2	2	2	3	5	3	4	4	4	A	23	9	7	23	15	86	56	55	7	4	5	7	14.3	86.0
18-Aug-07	6	29	15	6	5	6	85	54	45	21	A	34	20	19	10	4	4	3	4	8	11	22	7	101	22.6	101.3
19-Aug-07	16	9	7	116	29	97	42	61	23	A	70	14	23	9	6	5	4	7	7	21	19	20	16	9	27.3	115.9
20-Aug-07	148	13	55	63	7	89	44	80	A	23	58	27	8	44	32	20	8	7	89	45	8	6	7	38	39.9	147.5
21-Aug-07	7	12	5	44	12	47	86	A	23	17	12	9	47	12	6	16	8	5	3	3	7	8	9	30	18.6	86.5
22-Aug-07	13	4	15	6	16	9	A	25	16	12	10	7	5	4	5	3	4	5	4	5	19	13	12	11	9.6	24.8
23-Aug-07	10	19	20	8	12	A	39	36	39	18	5	3	4	3	3	4	2	3	7	37	11	21	19	43	15.9	42.7
24-Aug-07	42	5	18	12	A	57	22	37	10	30	5	9	18	4	3	17	4	9	14	18	44	30	22	22	19.6	57.0
25-Aug-07	34	168	3	A	19	6	6	6	24	6	4	31	46	15	5	27	26	7	6	8	9	5	7	5	20.6	168.1
26-Aug-07	10	8	A	21	9	10	8	8	7	3	2	2	2	2	2	2	2	4	4	5	7	5	7	7	5.9	20.8
27-Aug-07	9	A	21	9	11	17	39	85	20	38	21	10	35	6	5	10	5	6	6	8	11	10	9	6	17.3	84.9
28-Aug-07	A	30	16	16	117	285	75	44	69	10	5	4	4	26	3	4	7	6	11	20	8	14	6	A	35.4	284.8
29-Aug-07	18	7	6	5	10	35	84	58	71	6	14	4	3	8	5	26	21	5	5	10	35	22	A	A	21.1	83.6
30-Aug-07	17	41	22	21	19	72	60	76	57	60	41	15	6	7	48	12	8	5	51	31	25	A	95	107	39.0	107.5
31-Aug-07	13	10	6	7	6	10	11	12	60	9	37	41	41	70	7	18	7	89	45	68	A	147	27	7	32.5	147.0
Hourly Avg	17.4	24.8	14.1	23.1	21.8	39.8	36.5	31.4	25.8	21.3	19.2	16.5	21.0	13.3	17.9	11.8	8.3	12.7	16.6	17.2	14.5	18.9	13.5	25.2		
Hourly Max	147.5	226.3	68.5	123.3	140.9	284.8	89.3	84.9	102.9	93.7	91.8	60.8	111.1	69.6	138.1	79.7	29.9	88.7	88.6	67.9	43.6	147.0	95.5	117.6		

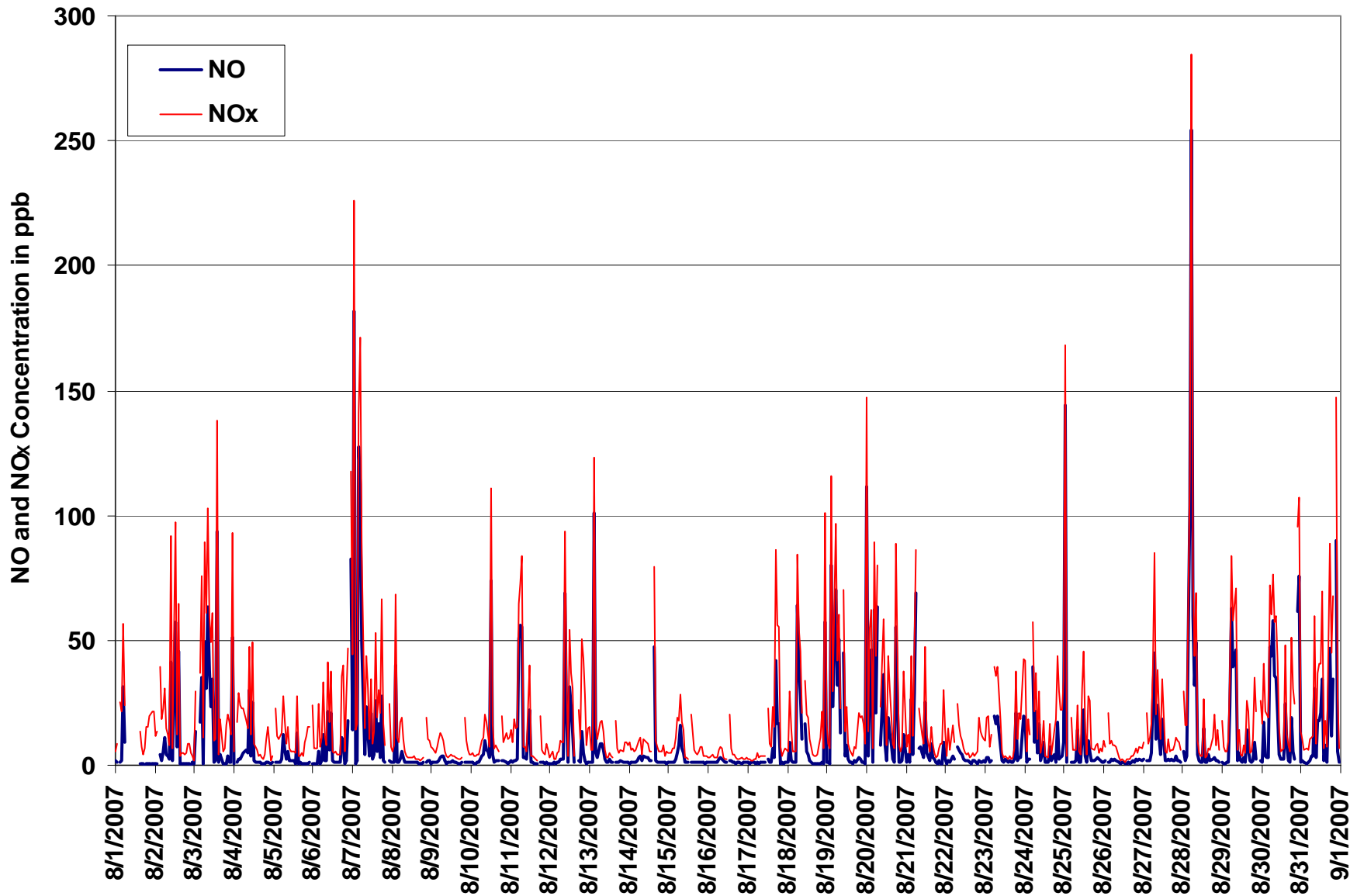


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

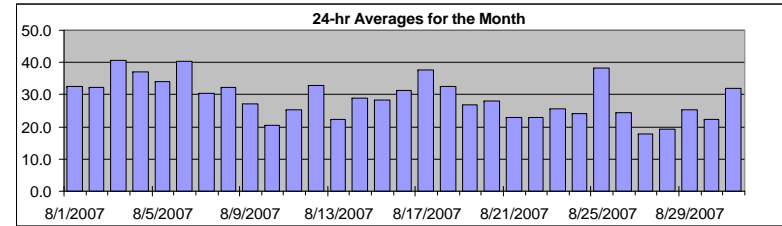
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	56.4 ppb	17-Aug	14:00 15:00
Maximum 24-hr Average:	40.7 ppb	3-Aug	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.9	48.8	38.4	29.4	19.0	9.4	3.1	28.9 ppb	29.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							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-Aug-07	29	25	A	19	12	10	14	20	26	31	36	41	43	43	46	48	49	50	49	45	39	33	26	18		32.6	49.5	
2-Aug-07	21	19	A	15	13	13	16	26	C	C	C	A	42	43	42	46	46	45	46	43	35	30	34	38		32.3	45.7	
3-Aug-07	40	42	A	41	40	38	32	31	34	40	44	45	45	46	46	51	52	51	47	40	33	31	30	37		40.7	51.9	
4-Aug-07	41	A	27	23	23	23	22	26	30	35	45	49	52	52	50	49	49	49	47	42	32	27	31	28		37.0	51.8	
5-Aug-07	A	24	24	19	16	15	12	17	27	29	40	44	47	50	49	51	51	49	47	44	36	30	29	A		34.1	51.4	
6-Aug-07	42	44	37	29	36	29	25	30	39	44	47	49	52	53	53	53	54	52	48	46	30	23	A	12		40.3	53.7	
7-Aug-07	13	15	15	16	21	24	21	28	35	37	35	36	37	37	40	41	44	40	31	35	33	A	33	35		30.5	43.9	
8-Aug-07	33	30	24	21	16	15	16	25	36	40	45	47	47	45	40	39	38	37	36	33	A	27	26	24		32.2	47.2	
9-Aug-07	24	22	21	20	17	14	15	17	23	30	34	37	40	39	42	39	37	36	32	A	23	22	21	20		27.1	41.5	
10-Aug-07	19	16	15	14	12	11	10	9	5	10	23	28	33	45	50	48	27	24	A	16	14	13	14	13		20.4	49.7	
11-Aug-07	13	15	12	12	9	5	7	12	22	25	30	34	37	38	40	40	40	A	38	36	33	31	24	27		25.2	40.4	
12-Aug-07	29	31	33	32	25	22	17	24	31	33	34	35	39	42	46	47	A	50	48	38	32	26	25	18		32.9	50.5	
13-Aug-07	18	19	17	10	12	9	7	7	15	23	28	32	35	36	36	A	34	33	32	29	26	20	18	18		22.4	35.9	
14-Aug-07	17	19	15	17	17	15	17	18	24	26	30	36	39	41	A	41	47	48	46	40	32	29	27	25		29.0	48.2	
15-Aug-07	25	22	19	17	12	7	9	11	19	30	37	39	42	A	44	45	46	45	42	34	30	26	25	24		28.3	46.1	
16-Aug-07	24	25	23	22	25	25	22	20	24	29	36	39	A	39	40	42	43	40	38	36	33	33	32	31		31.4	42.7	
17-Aug-07	29	28	28	28	27	27	25	27	30	33	37	A	46	50	56	54	50	43	36	35	44	44	43	43		37.6	56.4	
18-Aug-07	37	37	33	25	19	17	14	13	14	17	A	29	32	38	50	52	50	45	45	40	41	35	35	26		32.4	51.6	
19-Aug-07	22	19	25	24	20	15	9	8	8	A	13	15	15	24	30	40	50	47	41	34	37	39	42	36		26.7	50.4	
20-Aug-07	29	31	25	21	20	26	17	14	A	22	33	36	34	31	32	35	36	33	26	26	28	32	30	27		28.0	36.4	
21-Aug-07	20	15	19	18	16	14	14	A	17	18	22	28	31	31	33	35	35	28	29	26	23	20	20	17		23.0	35.1	
22-Aug-07	20	22	17	18	15	16	A	13	17	20	24	28	30	32	31	31	32	31	29	28	21	17	17	18		22.9	31.9	
23-Aug-07	20	12	14	18	15	A	8	10	17	29	37	38	37	39	40	41	42	43	34	27	26	16	14	15		25.7	42.6	
24-Aug-07	16	18	13	13	A	6	5	8	12	18	27	36	39	40	41	42	42	43	41	29	18	14	16	19		24.2	42.8	
25-Aug-07	20	27	36	A	35	32	30	31	34	38	41	46	50	52	51	49	47	47	48	39	33	34	31	31		38.3	52.1	
26-Aug-07	27	25	A	21	16	13	13	14	19	25	27	31	38	39	39	37	36	30	23	21	21	21	17	14		24.5	39.1	
27-Aug-07	12	A	15	12	8	6	2	5	13	14	18	24	30	28	31	31	31	27	22	18	16	16	13	13		17.7	31.5	
28-Aug-07	A	3	3	2	1	1	2	4	12	20	27	31	33	33	34	34	35	34	30	22	27	19	21	A		19.4	34.7	
29-Aug-07	25	21	20	20	17	16	8	8	19	34	34	35	36	37	38	38	37	35	34	26	13	18	A	11		25.3	38.2	
30-Aug-07	15	8	13	9	4	3	3	5	12	16	25	39	43	42	43	44	43	44	44	37	28	20	A	8	10		22.3	44.5
31-Aug-07	20	22	25	25	22	20	22	24	27	35	40	44	44	44	45	43	43	36	29	32	A	30	28	32		31.9	44.8	
Hourly Avg	24.2	22.7	21.0	19.3	18.1	16.3	14.5	16.9	22.1	27.5	32.8	36.3	38.9	40.3	41.9	42.9	42.3	40.5	37.6	32.9	28.6	26.0	25.2	23.5				
Hourly Max	42.4	43.5	37.4	41.5	40.2	37.9	31.9	31.0	39.0	43.6	47.4	49.2	51.9	52.9	56.4	54.2	53.7	51.8	48.6	45.8	44.2	43.9	42.7	43.3				

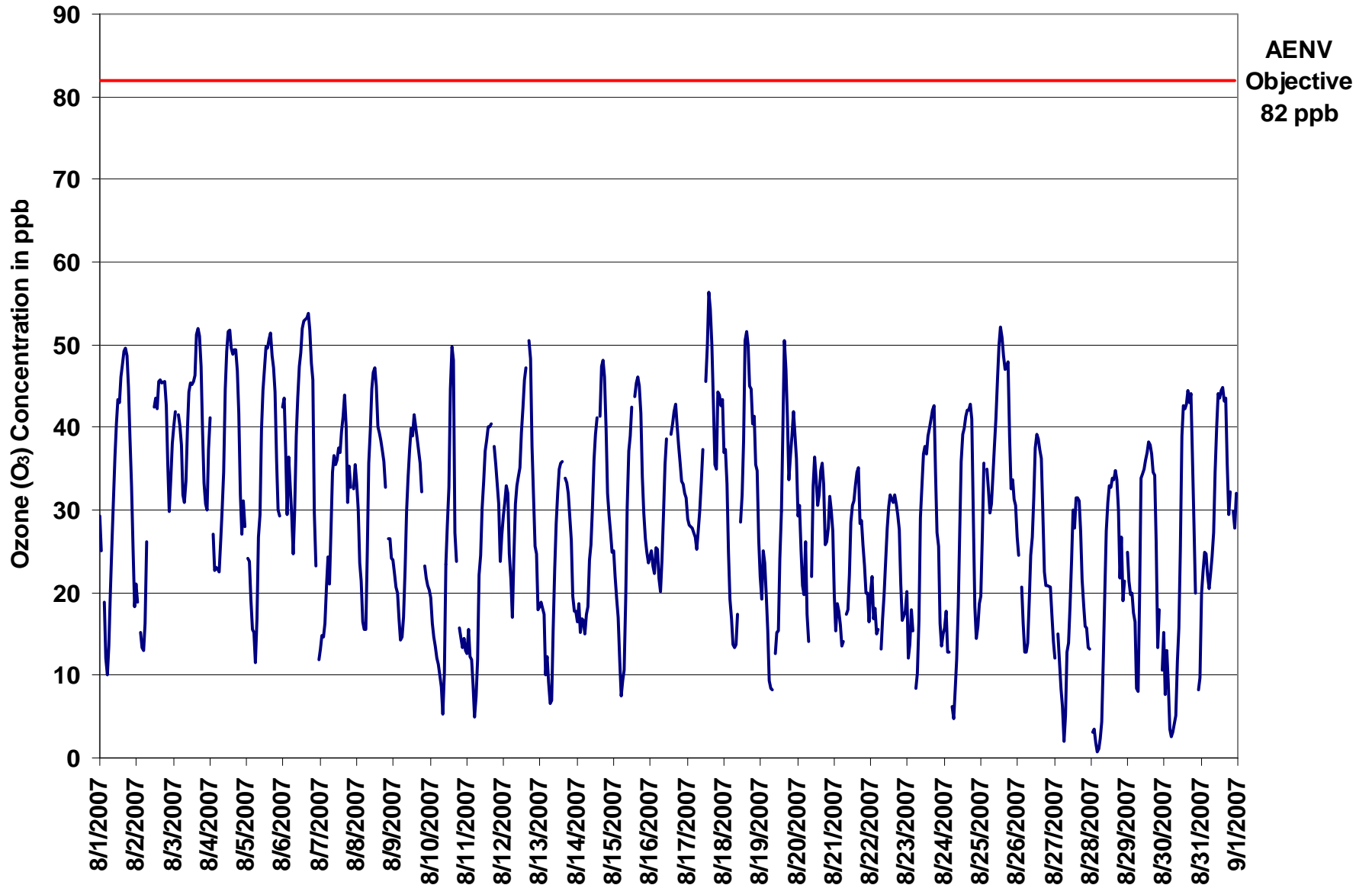


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

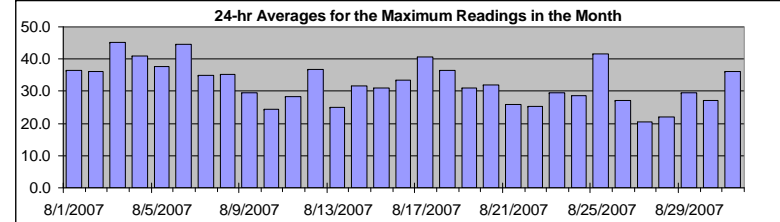
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	59.7	ppb	17-Aug	15:00 16:00
Maximum 24-hr Value:	45.0	ppb	3-Aug	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	54.9	51.9	41.6	32.7	22.2	13.9	5.8	32.4 ppb	32.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	32	29	A	21	19	15	18	24	29	36	40	43	46	45	48	52	51	52	51	50	44	39	32	22	36.4	51.8
2-Aug-07	24	24	A	24	17	16	26	29	C	C	C	A	47	47	46	49	48	47	48	45	40	32	36	40	36.1	49.3
3-Aug-07	42	43	A	44	42	41	40	37	39	44	48	49	48	50	52	54	55	54	50	46	41	37	34	45	45.0	54.6
4-Aug-07	45	A	30	30	31	29	28	30	35	38	50	53	54	54	52	52	52	52	48	46	37	32	33	31	41.0	54.5
5-Aug-07	A	27	25	23	17	17	15	21	32	39	43	47	50	52	52	55	56	52	50	48	41	35	34	A	37.6	55.5
6-Aug-07	45	50	42	32	41	37	29	34	43	47	51	52	54	55	55	56	56	56	54	51	37	32	A	19	44.7	56.4
7-Aug-07	19	18	17	19	29	29	26	33	37	39	39	39	40	41	44	46	46	47	40	40	37	A	37	37	34.8	46.9
8-Aug-07	35	34	28	24	20	21	20	33	39	42	48	48	48	48	46	41	40	39	38	35	A	30	28	26	35.3	48.5
9-Aug-07	26	25	22	22	19	16	18	20	28	33	36	39	42	42	43	40	39	37	36	A	27	23	22	22	29.4	43.4
10-Aug-07	21	18	16	15	13	12	12	10	10	21	27	33	38	50	52	52	34	30	A	23	17	18	18	15	24.3	52.2
11-Aug-07	17	17	16	15	15	12	12	19	25	28	33	37	38	40	42	41	42	A	40	37	35	33	30	28	28.3	42.1
12-Aug-07	32	34	34	33	32	23	20	31	34	35	37	39	43	46	48	50	A	52	51	47	38	33	32	21	36.7	52.4
13-Aug-07	20	20	19	17	15	11	8	9	19	27	32	35	37	37	37	A	36	35	33	31	29	23	19	20	24.9	37.5
14-Aug-07	18	21	17	19	19	17	21	22	27	27	36	38	41	43	A	45	50	50	48	46	34	32	29	27	31.6	50.3
15-Aug-07	27	23	22	18	14	9	12	16	25	37	39	41	45	A	45	46	49	47	45	37	33	29	26	25	30.9	48.6
16-Aug-07	27	27	25	25	28	27	24	22	27	33	39	41	A	40	42	44	44	43	40	38	35	34	33	33	33.5	44.2
17-Aug-07	30	29	29	29	29	28	27	30	32	36	40	A	48	53	59	60	54	51	44	45	46	45	45	45	40.5	59.7
18-Aug-07	43	40	38	30	21	19	16	17	17	20	A	32	36	46	53	53	52	47	48	46	46	46	44	33	36.6	53.3
19-Aug-07	26	21	32	28	22	19	14	10	10	A	15	18	21	28	32	48	52	51	44	43	42	47	47	40	30.9	52.2
20-Aug-07	35	34	29	25	27	31	25	18	A	28	38	39	36	35	37	37	38	36	33	29	30	35	32	31	32.0	39.4
21-Aug-07	28	19	20	19	19	16	17	A	19	21	26	31	33	34	35	37	38	32	31	28	26	24	22	21	25.9	38.1
22-Aug-07	23	24	21	20	19	18	A	16	20	24	26	30	32	33	33	32	34	33	31	30	25	21	20	20	25.4	33.5
23-Aug-07	23	22	19	20	18	A	13	16	22	32	39	40	38	41	41	42	44	44	43	32	30	23	20	18	29.6	44.1
24-Aug-07	21	20	18	21	A	9	7	11	15	23	33	39	41	42	43	44	44	45	45	39	29	22	22	23	28.6	44.9
25-Aug-07	27	37	37	A	36	35	32	34	37	41	43	50	53	54	53	52	53	49	51	48	35	36	33	32	41.7	53.9
26-Aug-07	32	27	A	23	19	14	14	17	24	26	29	36	40	40	40	39	38	36	28	22	23	22	20	17	27.2	40.4
27-Aug-07	15	A	17	14	10	9	6	11	15	16	22	26	34	32	34	33	33	31	25	20	19	20	15	15	20.5	34.1
28-Aug-07	A	6	5	3	2	2	4	7	16	25	30	33	34	34	35	35	36	36	33	30	31	22	23	A	21.9	36.4
29-Aug-07	27	23	21	22	20	19	18	14	33	35	37	37	38	39	40	41	41	37	37	30	28	23	A	17	29.5	41.3
30-Aug-07	19	14	17	13	6	7	6	9	18	20	33	44	44	44	45	47	47	46	44	38	24	A	16	20	27.0	47.1
31-Aug-07	25	24	27	28	24	24	25	27	31	38	43	49	48	50	49	47	47	44	39	37	A	38	33	34	36.1	49.7
Hourly Avg	27.7	25.8	23.8	22.6	21.4	19.5	18.3	20.8	26.1	31.4	36.2	39.2	41.6	43.2	44.5	45.7	45.0	43.7	41.5	38.0	33.1	30.5	28.7	26.8		
Hourly Max	45.0	50.3	42.1	43.7	42.0	41.0	39.8	36.6	43.1	47.4	50.7	53.3	54.2	54.9	59.1	59.7	56.4	56.0	53.7	50.7	46.4	46.6	45.2			

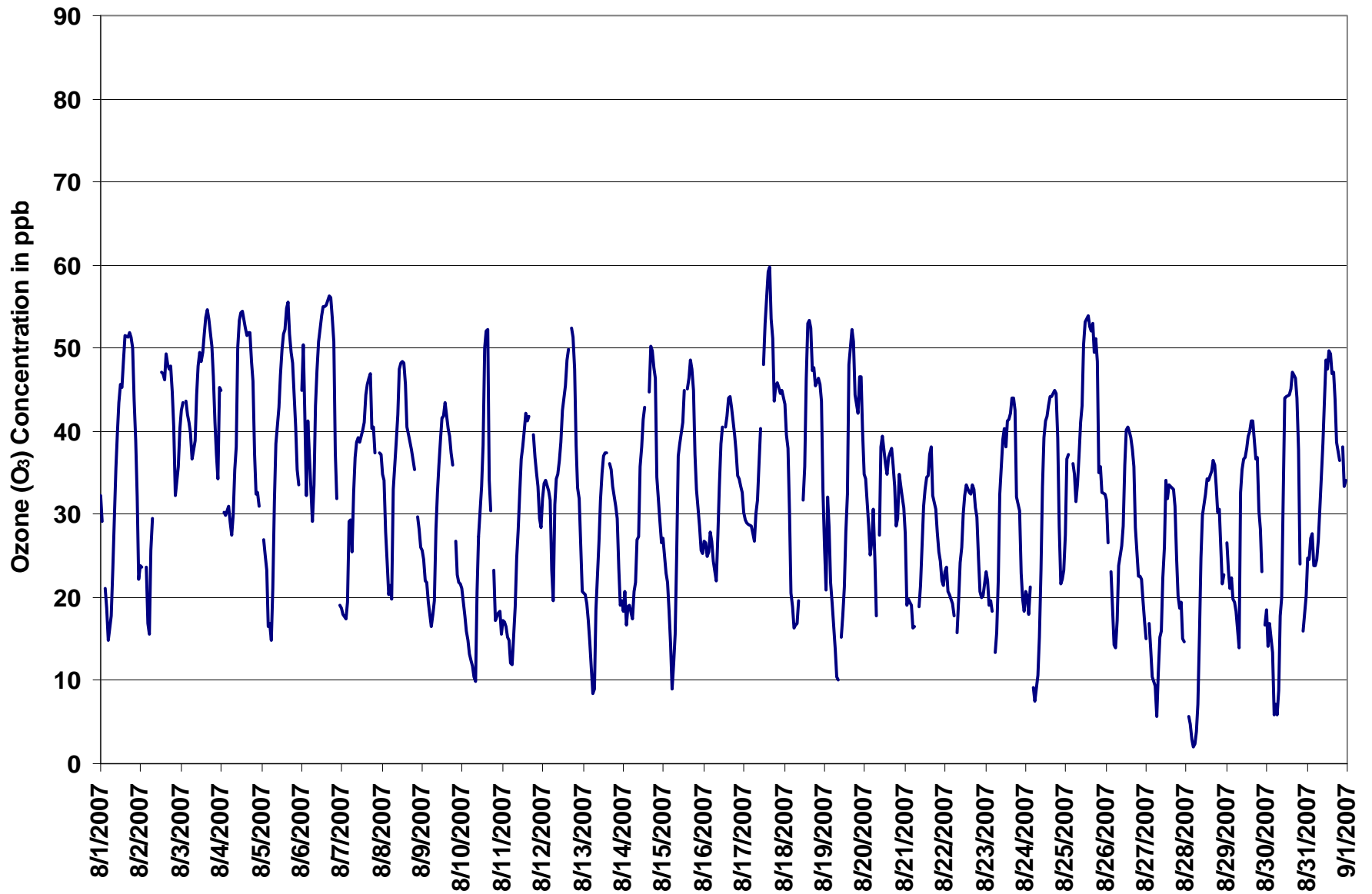
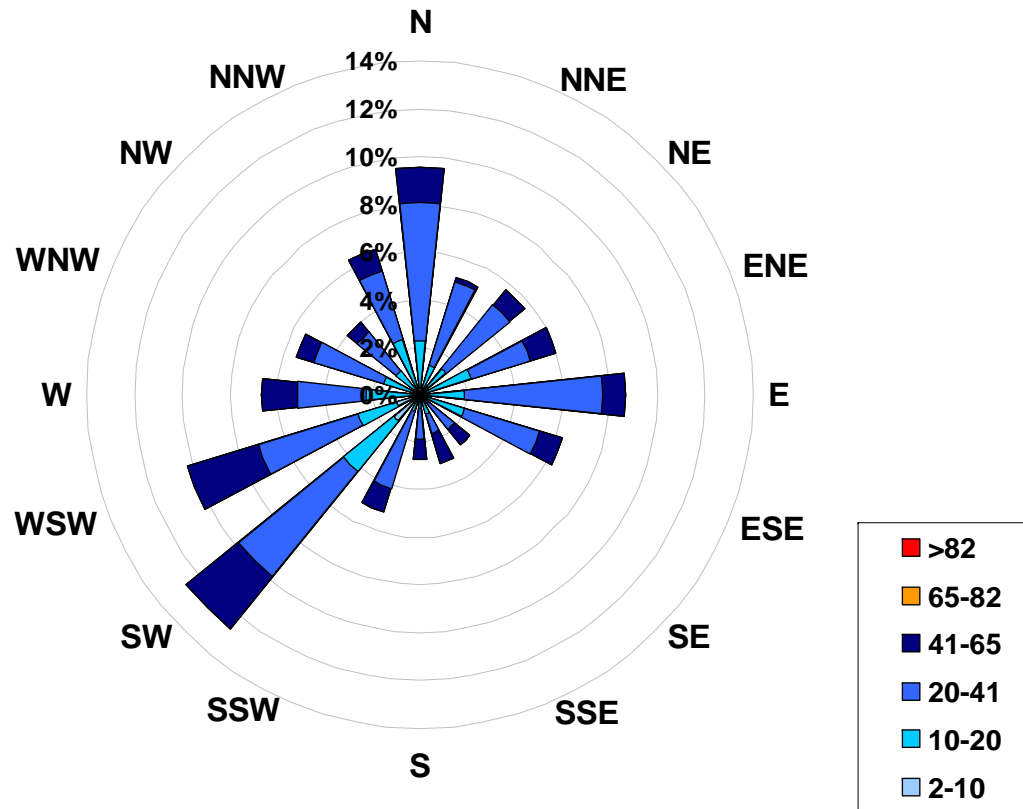


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	38
10	to	20	162
20	to	41	371
41	to	65	136
65	to	82	0
	>	82	0
Total Non-Zero Values			707



PAS - Crescent Heights Ozone Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

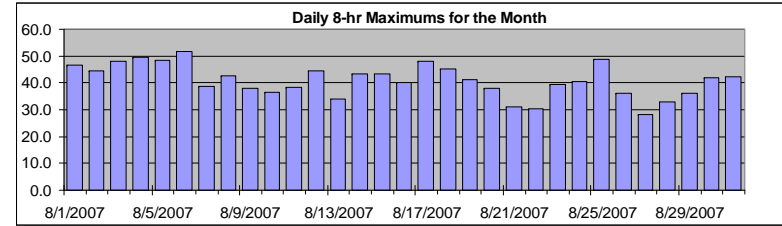
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	51.7	ppb	6-Aug	18:00	19:00		



Percentile	99	95	75	50	25	5	1
	48.7	45.2	37.1	29.0	20.7	12.4	7.6

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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	Daily Maximum
1-Aug-07	46	43	41	37	31	26	22	18	18	19	21	24	28	32	36	39	42	44	46	47	46	45	42	38	46.5	
2-Aug-07	35	31	29	24	21	18	17	18	N	N	N	N	N	N	N	N	N	N	44	44	43	42	41	40	44.4	
3-Aug-07	39	38	37	37	38	39	39	38	37	37	37	38	39	40	41	44	46	48	48	47	46	44	42	40	48.0	
4-Aug-07	39	37	34	32	30	29	28	27	25	26	28	32	35	39	42	45	47	49	50	49	46	43	41	38	49.5	
5-Aug-07	37	33	30	26	24	22	20	18	19	20	22	25	29	33	38	42	45	48	49	49	47	45	42	41	48.6	
6-Aug-07	40	39	37	35	35	35	35	34	34	34	35	37	39	42	46	49	51	52	52	51	48	45	44	38	51.7	
7-Aug-07	32	27	22	18	16	17	17	19	22	24	27	30	32	33	36	37	38	39	38	38	38	38	37	36	38.9	
8-Aug-07	34	33	32	30	28	26	24	23	23	24	27	30	34	37	40	42	43	42	41	39	38	36	34	32	42.6	
9-Aug-07	30	27	25	23	23	21	20	19	19	20	21	23	26	29	33	35	37	38	38	38	35	33	30	27	37.9	
10-Aug-07	25	22	19	19	17	16	15	13	11	11	12	14	16	20	25	30	33	35	36	35	32	27	22	17	36.3	
11-Aug-07	15	14	14	13	13	12	11	11	12	13	15	18	21	26	30	33	36	37	38	38	38	37	34	33	38.5	
12-Aug-07	31	31	30	30	29	28	27	27	27	27	27	28	29	32	36	38	40	42	44	44	43	41	38	34	44.5	
13-Aug-07	32	28	24	21	18	16	14	12	12	13	14	17	20	23	27	29	32	33	34	34	32	30	27	26	34.0	
14-Aug-07	24	22	20	19	17	17	17	17	18	19	21	23	26	29	31	34	37	41	43	43	43	42	41	39	37	43.3
15-Aug-07	34	31	27	25	22	19	17	15	15	16	18	21	24	27	32	37	41	43	43	43	41	39	37	34	43.3	
16-Aug-07	31	29	26	25	24	24	24	23	23	24	25	27	28	30	32	36	38	40	40	40	39	38	37	36	40.1	
17-Aug-07	34	33	31	30	30	29	28	27	28	28	29	30	32	36	40	44	47	48	48	46	46	45	44	42	48.1	
18-Aug-07	41	40	40	38	35	32	28	24	22	19	17	18	19	22	28	33	38	42	43	44	45	45	43	40	45.2	
19-Aug-07	36	33	31	29	26	23	20	18	16	16	14	13	12	13	16	21	27	29	33	35	38	40	41	41	41.2	
20-Aug-07	38	36	34	32	30	29	26	23	22	21	22	24	26	27	29	32	32	34	33	31	31	31	31	30	38.1	
21-Aug-07	28	26	25	24	22	20	18	17	16	17	17	19	21	23	26	27	29	30	31	31	30	29	27	25	31.2	
22-Aug-07	23	22	21	20	19	18	18	17	17	17	18	19	21	23	24	27	28	30	31	31	29	27	26	24	30.5	
23-Aug-07	23	20	18	17	16	16	15	14	14	16	19	22	25	27	31	35	38	39	39	38	36	34	30	27	39.5	
24-Aug-07	24	21	18	16	15	13	12	11	11	11	13	16	19	23	28	32	36	39	41	40	37	34	31	28	40.5	
25-Aug-07	25	23	22	21	24	26	28	30	32	34	34	36	38	40	43	45	47	48	49	48	46	43	41	39	48.7	
26-Aug-07	36	33	31	29	26	23	21	18	17	17	18	20	22	26	29	32	34	35	34	33	31	28	26	23	36.1	
27-Aug-07	20	18	17	16	14	12	10	9	9	9	10	11	14	17	20	24	26	28	28	27	26	24	22	20	28.1	
28-Aug-07	18	14	12	9	7	5	4	2	4	6	9	12	16	20	24	28	31	32	33	32	31	29	28	27	32.8	
29-Aug-07	25	24	22	22	21	20	18	17	16	18	20	22	24	27	30	34	36	36	36	35	32	30	29	25	36.2	
30-Aug-07	22	18	15	12	11	9	8	7	7	8	9	13	18	23	28	33	37	40	42	40	38	37	32	27	41.8	
31-Aug-07	24	21	19	19	19	19	21	23	24	25	27	29	32	35	38	40	42	42	41	40	39	37	35	33	42.4	

Hourly Max 45.7 42.6 41.3 38.3 37.9 39.1 38.8 37.8 36.8 36.5 37.5 38.0 39.4 42.3 45.9 48.8 50.6 51.7 51.7 51.3 48.5 45.3 43.6 42.2



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

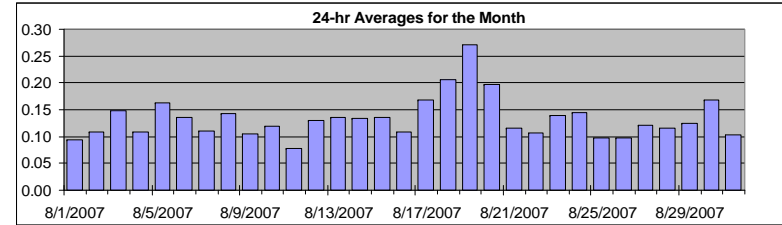
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.6	ppm	19-Aug	23:00 0:00
Maximum 24-hr Value:	0.3	ppm	19-Aug	



AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.1	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	23:00	0:00		
1-Aug-07	0.1	0.1	A	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	C	C	A	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.09	0.20
2-Aug-07	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.11	0.19	
3-Aug-07	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.15	0.24	
4-Aug-07	0.2	A	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	0.2	0.11	0.20	
5-Aug-07	A	0.2	0.2	0.2	0.3	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	0.3	0.3	0.2	A	0.16	0.33	
6-Aug-07	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.1	0.14	0.22	
7-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.11	0.19	
8-Aug-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	A	0.1	0.1	0.1	0.14	0.23	
9-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	A	0.1	0.1	0.1	0.11	0.15	
10-Aug-07	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	A	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.17	
11-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.11	
12-Aug-07	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.13	0.35	
13-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.14	0.19	
14-Aug-07	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.13	0.19	
15-Aug-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.14	0.25	
16-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.15	
17-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.17	0.29	
18-Aug-07	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	A	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.21	0.32	
19-Aug-07	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.27	0.58	
20-Aug-07	0.6	0.6	0.4	0.2	0.2	0.2	0.2	0.2	A	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	0.20	0.57	
21-Aug-07	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	0.2	0.1	0.1	0.1	0.12	0.19	
22-Aug-07	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	0.1	0.1	0.11	0.14	
23-Aug-07	0.1	0.1	0.2	0.1	0.1	A	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	0.2	0.2	0.2	0.2	0.14	0.31	
24-Aug-07	0.1	0.1	0.1	0.1	A	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	0.3	0.4	0.2	0.1	0.1	0.15	0.39	
25-Aug-07	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	0.1	0.1	0.1	0.1	0.1	0.10	0.13	
26-Aug-07	0.1	0.1	A	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.17	
27-Aug-07	0.1	A	0.1	0.1	0.1	0.2	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	0.2	0.2	0.12	0.25	
28-Aug-07	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	A	0.12	0.24	
29-Aug-07	0.1	0.0	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	A	0.1	0.12	0.35	
30-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	A	0.2	0.2	0.17	0.53	
31-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	A	0.1	0.1	0.1	0.10	0.22	
Hourly Avg	0.13	0.13	0.13	0.12	0.13	0.14	0.17	0.17	0.14	0.12	0.11	0.10	0.10	0.10	0.10	0.11	0.12	0.13	0.14	0.16	0.18	0.16	0.15	0.14				
Hourly Max	0.57	0.56	0.38	0.24	0.29	0.23	0.34	0.53	0.32	0.23	0.21	0.20	0.20	0.21	0.20	0.23	0.25	0.27	0.29	0.35	0.41	0.51	0.57	0.58				

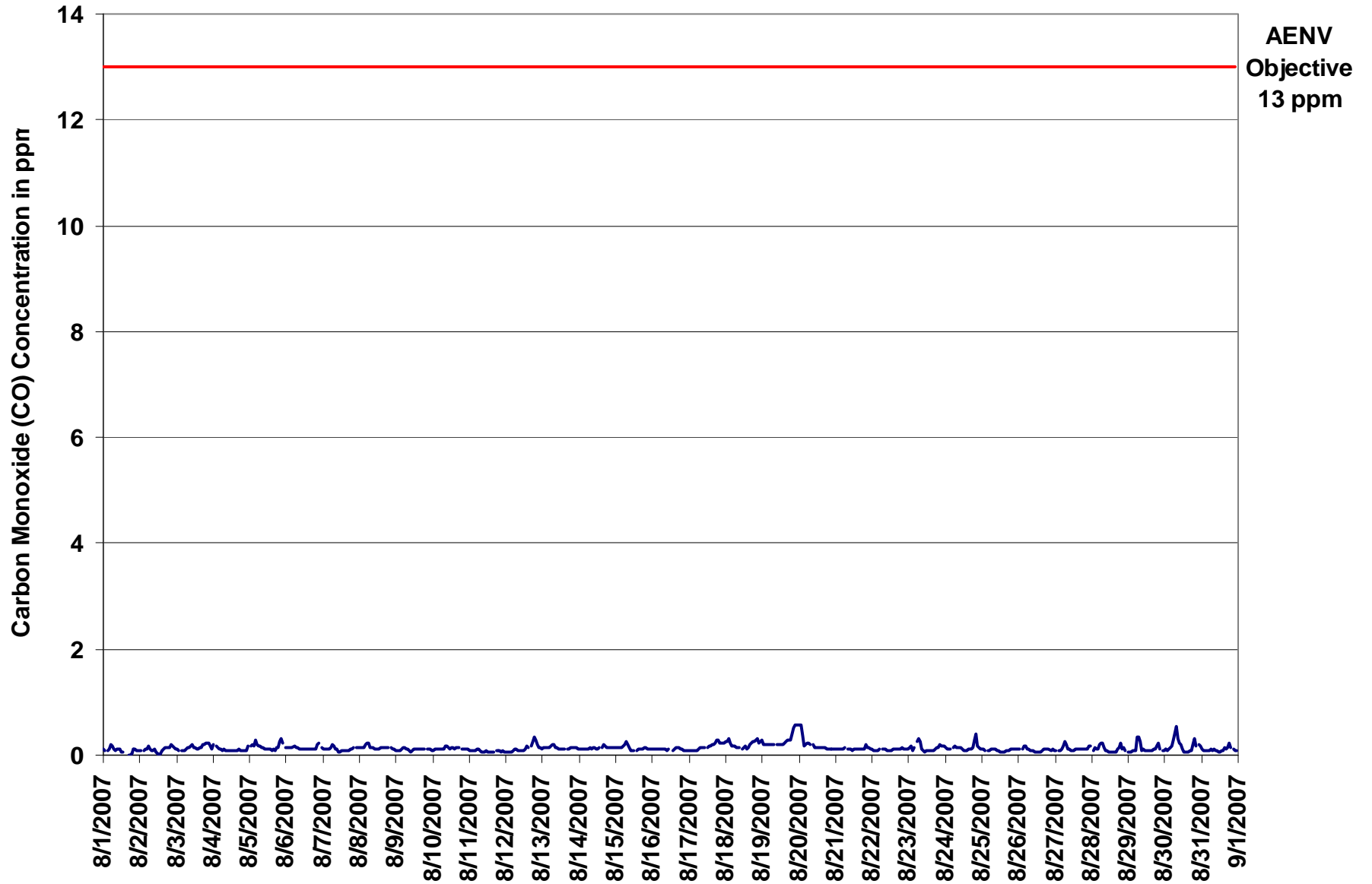


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

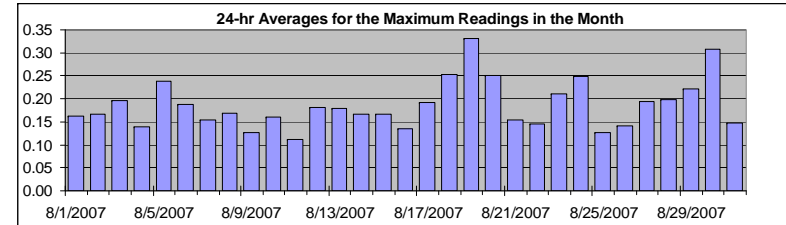
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	0.9	ppm	24-Aug	19:00 20:00
Maximum 24-hr Value:	0.3	ppm	19-Aug	



AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.4	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	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	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	0.1	0.1	A	0.1	0.2	0.6	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.1	C	C	A	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.16	0.55
2-Aug-07	0.1	0.1	A	0.2	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.17	0.32
3-Aug-07	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.20	0.35
4-Aug-07	0.3	A	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.14	0.25
5-Aug-07	A	0.2	0.3	0.2	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.4	0.4	0.4	A	0.2	0.24	0.58
6-Aug-07	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	A	0.2	0.2	0.19	0.35
7-Aug-07	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.2	0.1	0.1	0.15	0.26
8-Aug-07	0.1	0.1	0.1	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	0.2	0.2	A	0.1	0.1	0.1	0.1	0.17	0.29
9-Aug-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.13	0.18
10-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	A	0.2	0.2	0.2	0.1	0.1	0.1	0.16	0.25
11-Aug-07	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	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.25
12-Aug-07	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.3	0.4	0.5	0.8	0.3	0.2	0.2	0.2	0.18	0.75
13-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.25
14-Aug-07	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.25
15-Aug-07	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.17	0.30
16-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	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	0.14	0.20
17-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.2	0.2	0.2	0.3	0.19	0.48	
18-Aug-07	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.25	0.50	
19-Aug-07	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.4	0.4	0.3	0.5	0.6	0.6	0.9	0.33	0.85	
20-Aug-07	0.6	0.6	0.6	0.2	0.3	0.5	0.3	0.3	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	0.1	0.2	0.2	0.25	0.60	
21-Aug-07	0.2	0.1	0.1	0.1	0.1	0.2	0.2	A	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.15	0.26	
22-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.15	0.25	
23-Aug-07	0.1	0.2	0.2	0.1	0.2	A	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.9	0.2	0.2	0.2	0.21	0.89	
24-Aug-07	0.2	0.1	0.5	0.2	A	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.9	0.7	0.4	0.1	0.1	0.25	0.93	
25-Aug-07	0.1	0.1	0.1	A	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	0.2	0.2	0.2	0.1	0.2	0.1	0.13	0.21	
26-Aug-07	0.2	0.2	A	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.14	0.30	
27-Aug-07	0.1	A	0.1	0.1	0.5	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.3	0.3	0.19	0.49	
28-Aug-07	A	0.1	0.2	0.1	0.1	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.2	0.2	A	0.2	0.20	0.49	
29-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.4	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.5	0.2	A	0.1	0.22	0.85	
30-Aug-07	0.1	0.3	0.1	0.3	0.3	0.2	0.7	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2	0.2	0.5	0.8	0.3	A	0.4	0.3	0.31	0.79	
31-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	A	0.2	0.1	0.1	0.15	0.33	
Hourly Avg	0.15	0.17	0.17	0.15	0.19	0.23	0.26	0.23	0.19	0.15	0.14	0.13	0.13	0.14	0.15	0.15	0.16	0.20	0.21	0.27	0.29	0.22	0.19	0.19			
Hourly Max	0.60	0.60	0.55	0.32	0.58	0.55	0.85	0.72	0.50	0.31	0.26	0.25	0.25	0.45	0.26	0.28	0.25	0.40	0.50	0.93	0.89	0.56	0.61	0.85			

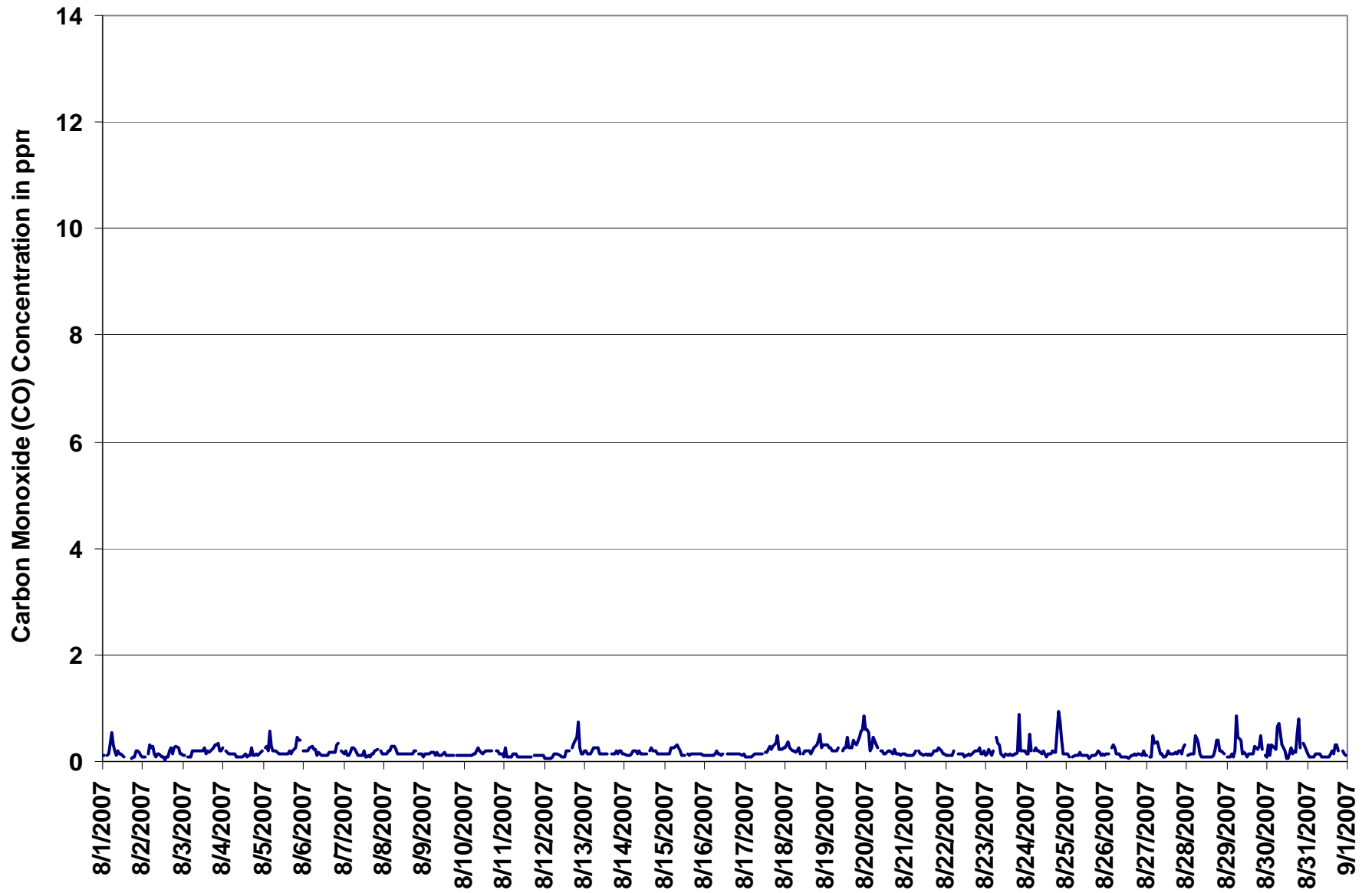
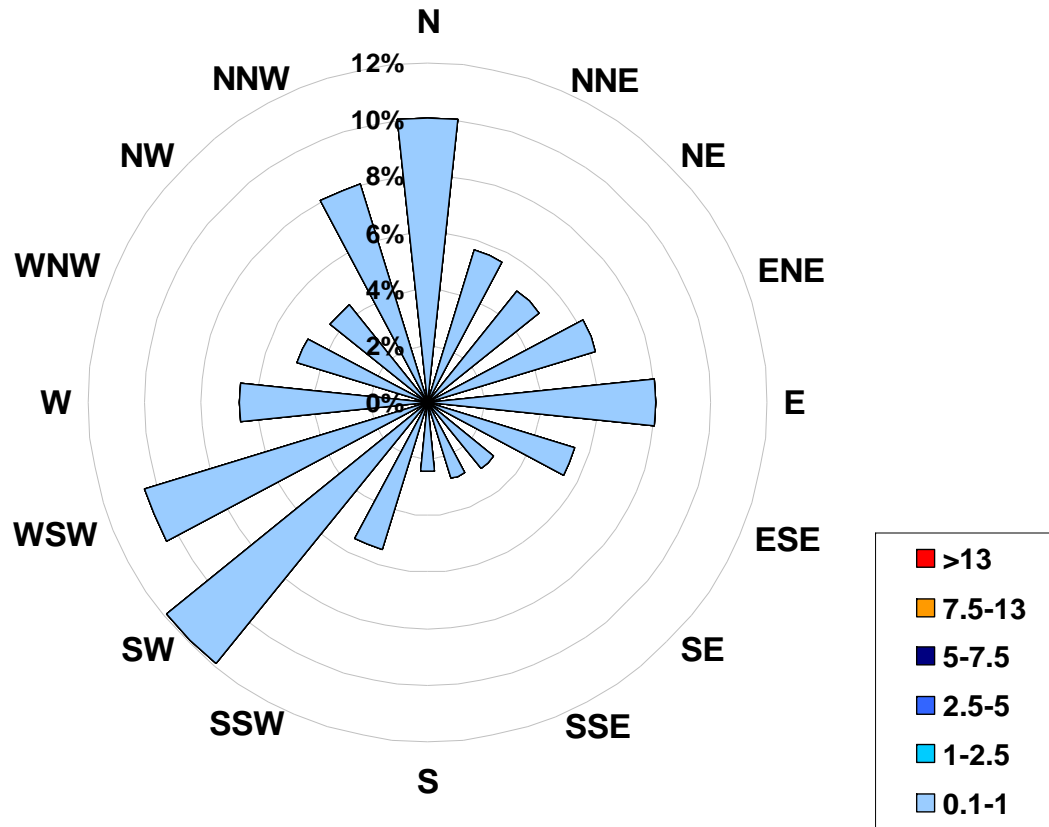


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



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

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	708
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			708



PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary

Station: Crescent Heights
 Station Owner: PAS

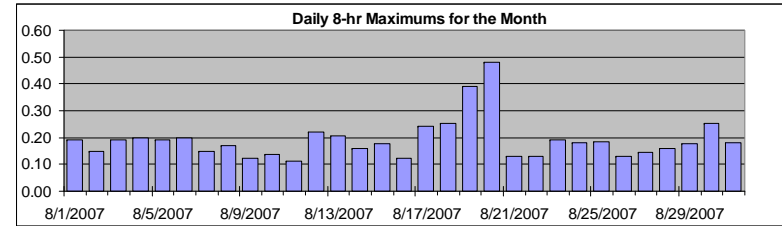
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: August 1, 2007 to September 1, 2007

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.5 ppm 20-Aug 2:00 3:00



Percentile	99	95	75	50	25	5	1
	0.4	0.2	0.1	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-Aug-07	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	N	N	N	N	N	N	N	N	0.1	0.19	
2-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.19	
4-Aug-07	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	0.20	
5-Aug-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.19	
6-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20	
7-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	
8-Aug-07	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	0.1	0.17	
9-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	
10-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	
11-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	
12-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.22	
13-Aug-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.21	
14-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.16	
15-Aug-07	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	0.18	
16-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	
17-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	
18-Aug-07	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	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.25	
19-Aug-07	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.39	
20-Aug-07	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	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	0.48	
21-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	
22-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	
23-Aug-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
24-Aug-07	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	0.18	
25-Aug-07	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	0.18	
26-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	
27-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	
28-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	
29-Aug-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18	
30-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.25	
31-Aug-07	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	0.1	0.18	
Hourly Max	0.43	0.47	0.48	0.47	0.44	0.41	0.36	0.32	0.28	0.23	0.25	0.25	0.24	0.23	0.20	0.21	0.21	0.22	0.23	0.24	0.26	0.30	0.35	0.39		



PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

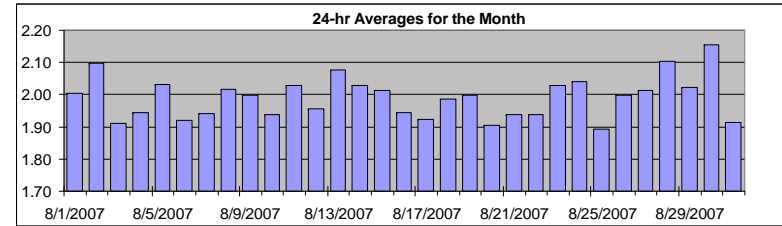
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Maximum 1-hr Average:	3.3	ppm	8-Aug	4:00 5:00
Maximum 24-hr Value:	2.2	ppm	30-Aug	



AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.2	2.0	2.0	1.9	1.9	1.8	2.0 ppm	2.0 ppm

Status Flag Characters

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

Day	Mountain Standard Time																							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-Aug-07	1.9	2.0	A	2.0	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.01	2.20	
2-Aug-07	2.1	2.1	A	2.2	2.4	2.4	2.3	2.2	2.0	1.9	C	C	A	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.10	2.40	
3-Aug-07	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.91	2.03	
4-Aug-07	2.1	A	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	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.15
5-Aug-07	A	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.4	A	2.03	2.39	
6-Aug-07	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.1	1.92	2.10	
7-Aug-07	2.2	2.1	2.1	2.1	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.94	2.16	
8-Aug-07	1.9	1.9	2.0	2.2	3.3	2.2	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.02	3.25	
9-Aug-07	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	2.0	1.9	1.9	A	2.0	2.0	2.0	2.00	2.15	
10-Aug-07	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	1.94	2.04	
11-Aug-07	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	1.9	2.03	2.25
12-Aug-07	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	2.1	1.96	2.06	
13-Aug-07	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	A	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.08	2.27	
14-Aug-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.03	2.14	
15-Aug-07	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.01	2.23	
16-Aug-07	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.94	2.00	
17-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.92	2.00	
18-Aug-07	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	1.99	2.11	
19-Aug-07	2.2	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	A	2.1	2.1	2.0	2.0	2.0	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.00	2.16	
20-Aug-07	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	2.01	
21-Aug-07	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	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	2.0	2.0	1.94	2.01	
22-Aug-07	1.9	1.9	2.0	1.9	1.9	1.9	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	1.94	2.06	
23-Aug-07	2.0	2.2	2.2	2.2	2.2	A	2.2	2.2	2.1	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	2.0	2.0	2.03	2.23	
24-Aug-07	2.1	2.2	2.2	2.1	A	2.0	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.1	2.04	2.25	
25-Aug-07	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.1	1.89	2.06	
26-Aug-07	2.1	2.2	A	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.00	2.19	
27-Aug-07	2.1	A	2.0	2.0	2.1	2.1	2.3	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.01	2.27	
28-Aug-07	A	2.2	2.3	2.4	2.3	2.3	2.3	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.2	2.1	A	2.10	2.42	
29-Aug-07	2.0	2.0	2.1	2.1	2.1	2.2	2.5	2.3	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	A	2.1	2.02	2.46	
30-Aug-07	2.1	2.2	2.1	2.3	2.4	2.5	2.6	2.6	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.2	2.1	A	2.2	2.4	2.15	2.59	
31-Aug-07	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.9	1.9	A	1.9	1.9	1.8	1.91	2.14	
Hourly Avg	2.02	2.03	2.04	2.06	2.11	2.09	2.12	2.09	2.03	1.98	1.94	1.92	1.91	1.91	1.90	1.90	1.91	1.91	1.92	1.95	1.98	2.01	2.02	2.01			
Hourly Max	2.16	2.25	2.33	2.42	3.25	2.54	2.59	2.56	2.24	2.12	2.06	2.05	2.02	2.05	2.05	2.06	2.05	2.04	2.01	2.15	2.19	2.26	2.39	2.42			

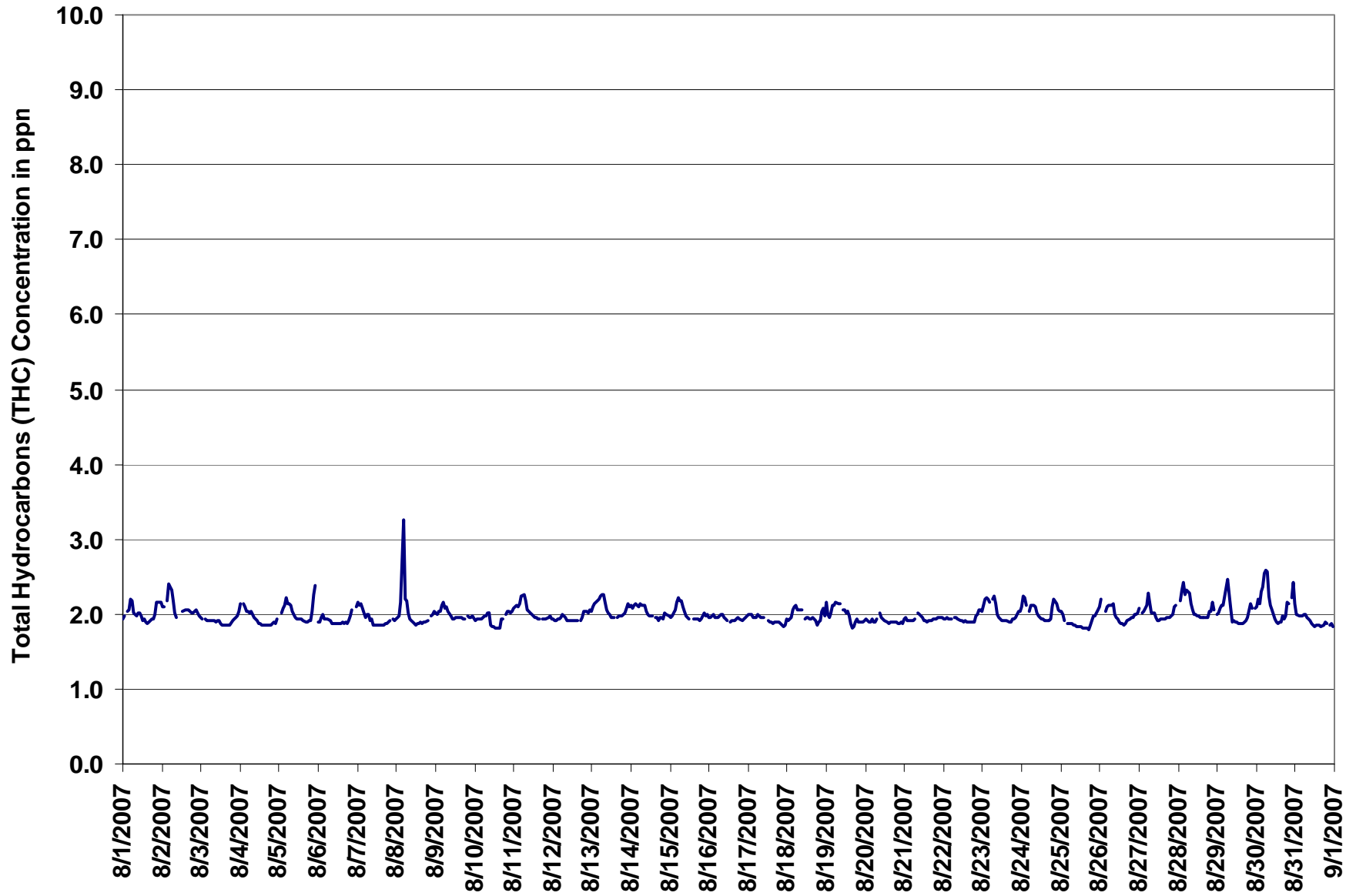


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

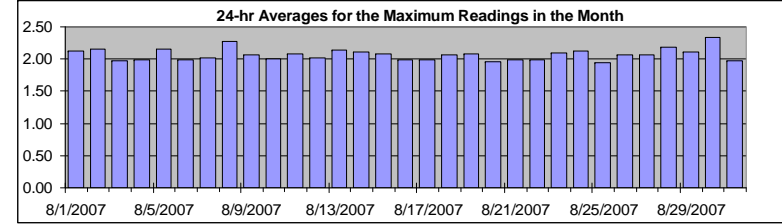
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Value:	6.8	ppm	8-Aug	4:00 5:00
Maximum 24-hr Value:	2.3	ppm	30-Aug	



AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.4	2.1	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-Aug-07	2.0	2.1	A	2.1	2.2	2.4	2.3	2.1	2.0	2.1	2.1	2.0	1.9	2.4	2.0	2.4	1.9	1.9	2.0	2.0	2.1	2.3	2.3	2.2	2.12	2.42
2-Aug-07	2.2	2.1	A	2.3	2.5	2.4	2.4	2.3	2.1	2.0	C	C	A	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.16	2.50
3-Aug-07	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1	1.97	2.15
4-Aug-07	2.2	A	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.99	2.21	
5-Aug-07	A	2.1	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.2	3.5	2.6	A	2.16	3.51
6-Aug-07	2.0	1.9	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.2	A	2.2	1.99	2.22
7-Aug-07	2.3	2.2	2.2	2.2	2.2	2.0	2.1	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	A	2.2	2.0	2.02	2.34
8-Aug-07	2.0	2.0	2.0	3.2	6.8	2.3	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.1	2.1	2.2	2.28	6.77	
9-Aug-07	2.1	2.1	2.2	2.1	2.2	2.4	2.1	2.1	2.1	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	2.06	2.45	
10-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.0	1.9	1.9	1.9	1.8	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.00	2.30	
11-Aug-07	2.2	2.1	2.2	2.1	2.2	2.4	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.08	2.38	
12-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	A	2.0	2.1	2.1	2.3	2.1	2.1	2.1	2.02	2.26
13-Aug-07	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.13	2.31
14-Aug-07	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.5	2.1	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	2.2	2.0	2.0	2.1	2.1	2.0	2.11	2.49
15-Aug-07	2.0	2.0	2.1	2.1	2.2	2.4	2.3	2.3	2.2	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	2.0	2.0	2.1	2.0	2.1	2.08	2.41	
16-Aug-07	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	A	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.08	
17-Aug-07	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.99	2.24	
18-Aug-07	2.1	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	1.9	1.9	2.1	2.2	2.2	2.1	2.06	2.20
19-Aug-07	2.2	2.2	2.0	2.1	2.2	2.2	2.2	2.2	A	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.08	2.25	
20-Aug-07	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	A	2.1	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	1.99	2.06	
21-Aug-07	2.0	2.0	2.0	2.0	1.9	1.9	2.0	A	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.07	
22-Aug-07	2.0	2.0	2.0	2.0	2.0	1.9	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.1	1.98	2.12	
23-Aug-07	2.1	2.4	2.3	2.2	2.2	A	2.5	2.4	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.2	2.1	2.09	2.46	
24-Aug-07	2.2	2.3	2.3	2.2	A	2.1	2.2	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.6	2.4	2.4	2.1	2.1	2.12	2.57
25-Aug-07	2.1	2.1	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.1	1.94	2.13	
26-Aug-07	2.1	2.3	A	2.2	2.2	2.2	2.1	2.2	2.3	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.0	2.06	2.29	
27-Aug-07	2.1	A	2.1	2.1	2.1	2.2	2.5	2.2	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.07	2.48
28-Aug-07	A	2.4	2.5	2.6	2.3	2.4	2.3	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.1	A	2.18	2.61	
29-Aug-07	2.0	2.1	2.1	2.2	2.2	2.4	2.6	2.4	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	2.3	2.3	A	2.1	2.11	2.60	
30-Aug-07	2.2	2.4	2.2	2.6	2.4	2.7	2.8	2.7	2.4	2.2	2.1	2.0	1.9	1.9	2.1	1.9	2.5	2.5	2.3	2.4	2.4	A	2.3	2.7	2.33	2.78
31-Aug-07	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	A	1.9	1.9	1.9	1.97	2.34
Hourly Avg	2.10	2.10	2.11	2.17	2.29	2.18	2.20	2.17	2.11	2.04	1.99	1.97	1.95	1.96	1.95	1.96	1.96	1.98	1.98	2.03	2.08	2.14	2.10	2.09		
Hourly Max	2.34	2.39	2.46	3.19	6.77	2.68	2.78	2.72	2.49	2.30	2.14	2.25	2.14	2.36	2.09	2.41	2.45	2.47	2.29	2.57	2.45	3.51	2.62	2.72		

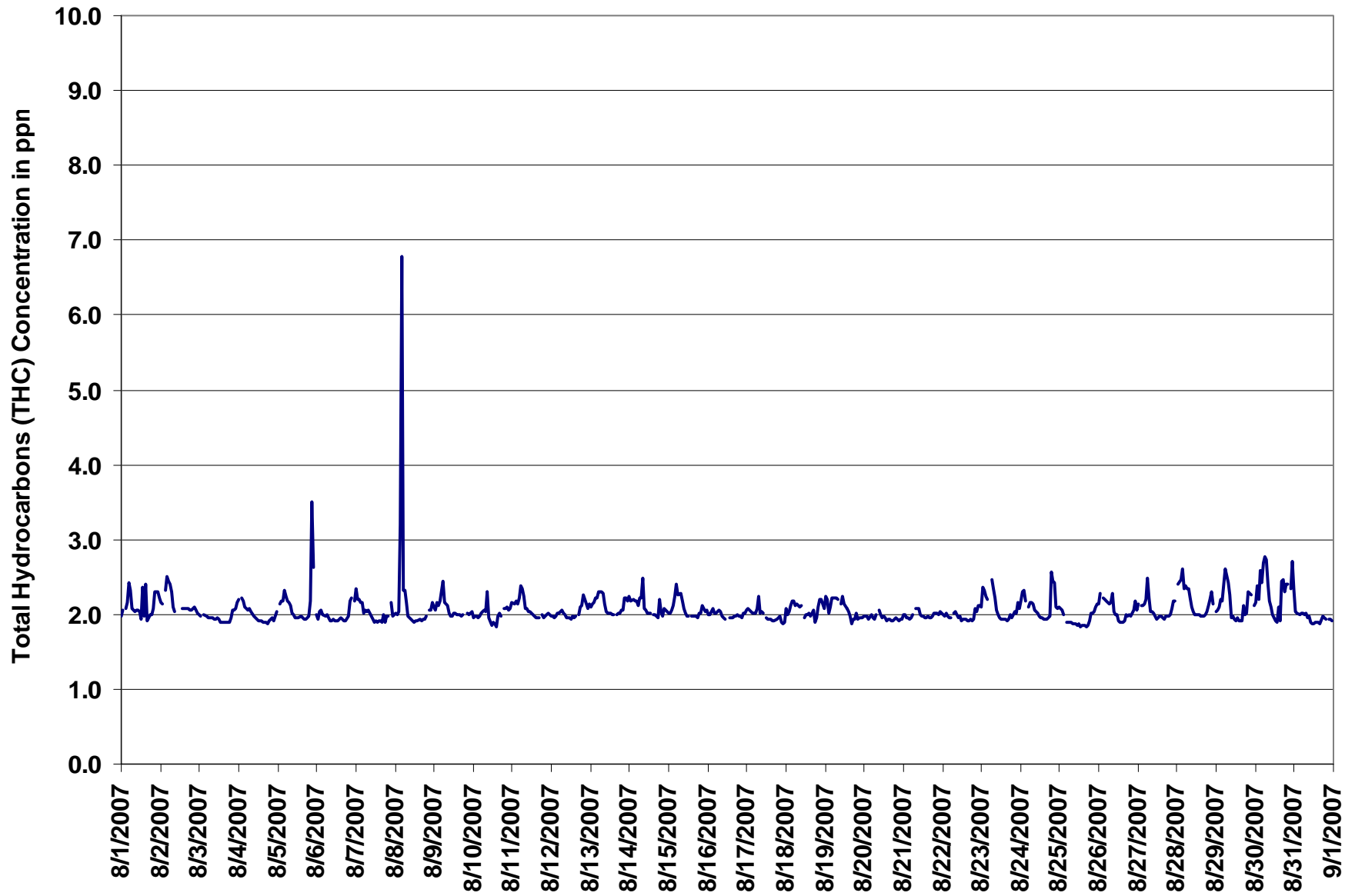
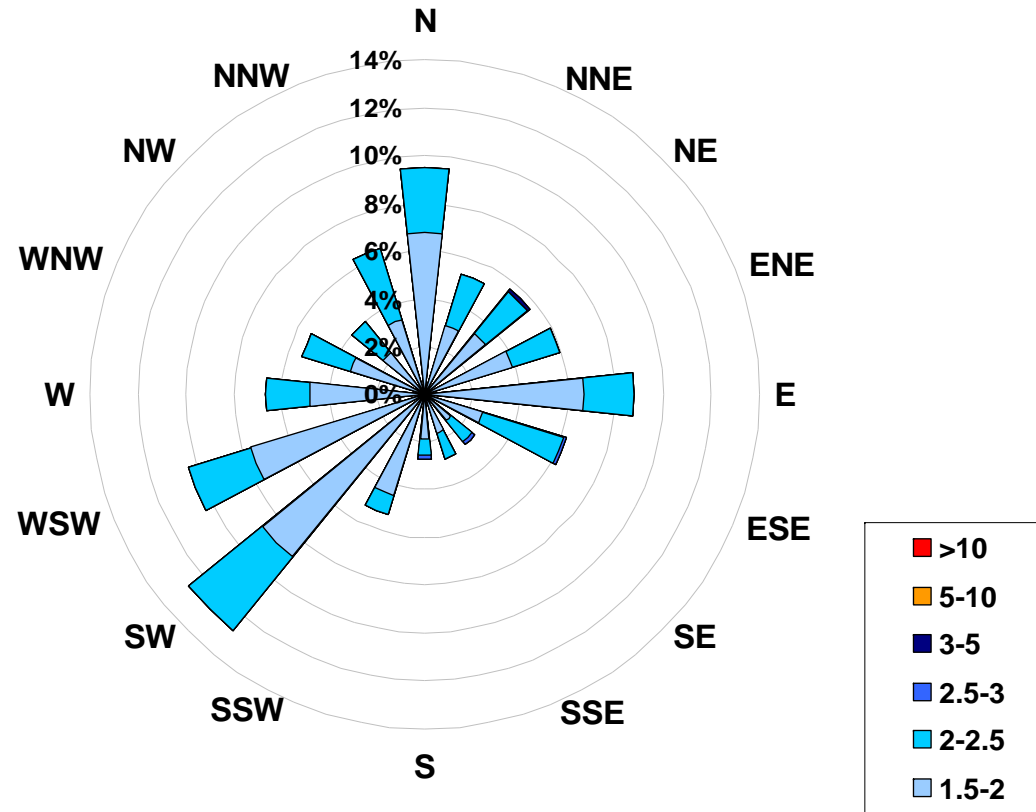


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm Range			Frequency (hrs)
1.5	<	2	462
2	to	2.5	242
2.5	to	3	3
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			708



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

Station: Crescent Heights
 Station Owner: PAS

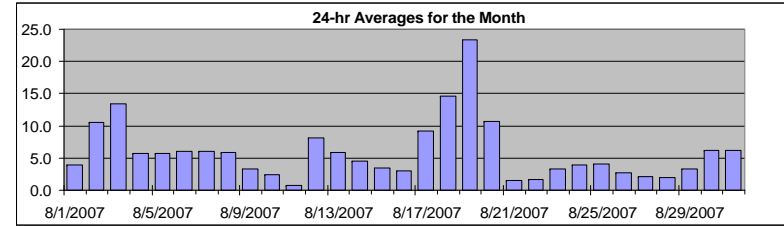
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2007 to September 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	80.4 µg/m ³ 19-Aug 23:00 0:00
Maximum 24-hr Value:	23.4 µg/m ³ 19-Aug



AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	1 hrs	AMD Operational Uptime:	99.3%
Percentile	99	95	75
	18.1	7.4	3.8
	1.7	0.0	0.0
	Average / Median		Geomean
	5.9 4 µg/m ³		4.6 µg/m ³

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-07	1	2	2	2	3	4	6	4	0	3	3	3	3	4	5	3	2	4	4	5	8	8	7	9	4.0	9.5
2-Aug-07	9	8	8	7	11	6	10	10	12	7	5	C	1	2	7	12	16	17	16	17	19	19	14	11	10.6	19.5
3-Aug-07	9	9	9	10	8	8	9	10	11	10	16	15	9	5	6	9	11	17	21	22	28	24	22	24	13.4	28.0
4-Aug-07	33	15	12	4	6	3	3	3	2	2	0	1	1	2	3	7	8	9	3	4	6	3	5	3	5.7	32.7
5-Aug-07	4	5	4	2	3	4	6	7	5	3	2	2	5	3	1	2	1	4	7	8	14	18	14	12	5.7	18.0
6-Aug-07	4	10	12	9	6	8	6	6	4	3	3	3	4	6	5	6	8	6	3	2	8	9	8	6	6.0	11.8
7-Aug-07	7	4	4	4	7	11	14	12	8	8	2	2	3	0	2	2	2	5	6	6	8	9	12	9	6.1	13.6
8-Aug-07	6	1	3	8	14	10	11	16	7	13	5	4	2	2	5	6	4	5	3	2	5	2	4	4	5.9	16.3
9-Aug-07	1	3	4	3	5	6	10	5	4	2	1	3	7	4	8	4	3	2	1	2	1	1	0	0	3.4	9.6
10-Aug-07	1	2	1	1	1	3	5	4	6	4	7	0	1	0	0	3	14	1	D	1	0	0	0	0	2.4	13.7
11-Aug-07	0	0	1	1	1	2	2	3	1	2	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0.7	3.2
12-Aug-07	0	0	0	1	3	1	4	2	2	3	4	3	3	7	15	11	13	12	20	27	20	15	20	7	8.1	26.9
13-Aug-07	4	2	3	4	7	9	10	11	6	4	7	6	7	9	8	10	6	5	5	4	4	5	5	3	5.9	10.6
14-Aug-07	1	1	1	2	3	3	2	3	3	5	3	5	5	5	5	5	14	8	6	7	4	4	5	4	4.5	13.6
15-Aug-07	4	4	5	4	3	3	6	7	6	0	0	0	2	2	3	3	4	3	4	5	4	3	3	4	3.4	7.3
16-Aug-07	1	2	3	1	1	2	3	4	4	2	0	1	2	3	4	6	6	5	3	4	5	3	4	4	3.0	6.0
17-Aug-07	3	3	2	2	3	6	6	5	6	7	8	9	9	11	11	16	20	14	15	16	16	13	12	9	9.1	20.0
18-Aug-07	23	16	30	33	18	15	9	9	8	8	7	8	8	2	0	9	24	22	22	13	2	22	24	18	14.7	32.7
19-Aug-07	25	14	0	19	16	18	17	18	17	13	14	13	12	12	8	6	16	29	23	38	22	53	76	80	23.4	80.4
20-Aug-07	80	80	46	4	8	3	6	1	10	6	2	0	0	0	0	0	0	1	0	0	0	10	2	2	10.8	79.9
21-Aug-07	D	0	0	0	0	1	1	0	4	2	0	0	0	0	0	0	4	5	2	3	1	2	2	3	1.4	5.4
22-Aug-07	3	1	2	0	1	1	3	2	1	1	0	0	0	0	1	0	3	2	3	3	2	2	1	2	1.6	3.4
23-Aug-07	1	4	0	0	1	1	4	3	4	0	0	2	2	0	0	2	3	4	15	8	9	7	6	2	3.3	14.5
24-Aug-07	D	D	5	4	12	6	6	4	5	5	1	0	0	1	0	3	1	1	2	7	13	2	2	4	3.9	13.2
25-Aug-07	4	3	1	3	3	3	4	2	4	3	3	0	1	2	2	4	3	3	7	14	9	7	5	5	4.0	14.0
26-Aug-07	6	5	2	6	4	5	6	5	1	1	1	0	0	0	0	0	3	16	3	2	0	0	1	1	2.7	15.6
27-Aug-07	0	1	1	0	0	1	5	3	3	4	3	1	2	8	D	0	0	3	2	3	2	2	2	0	2.1	8.5
28-Aug-07	2	3	1	0	3	4	5	7	5	1	0	0	0	0	0	1	1	1	2	3	2	2	2	1	1.9	6.8
29-Aug-07	1	0	2	3	2	3	8	9	11	5	2	0	2	1	1	2	2	3	2	5	4	1	5	4	3.3	11.5
30-Aug-07	4	4	1	5	5	3	8	7	9	12	9	4	0	1	2	2	3	4	6	7	8	12	19	13	6.1	18.8
31-Aug-07	7	7	9	8	7	7	6	9	12	7	3	2	3	3	5	6	4	7	7	7	8	7	2	4	6.2	12.4
Hourly Avg	8.5	6.9	5.6	4.9	5.2	5.2	6.5	6.2	5.9	4.8	3.6	2.9	3.1	3.1	3.6	4.5	6.3	7.1	7.2	7.9	7.6	8.5	9.2	8.0		
Hourly Max	79.7	79.9	45.5	32.7	17.6	18.4	16.7	18.3	17.4	13.3	15.5	15.0	12.0	11.5	15.3	15.6	24.2	29.1	23.3	38.0	28.0	52.7	75.7	80.4		

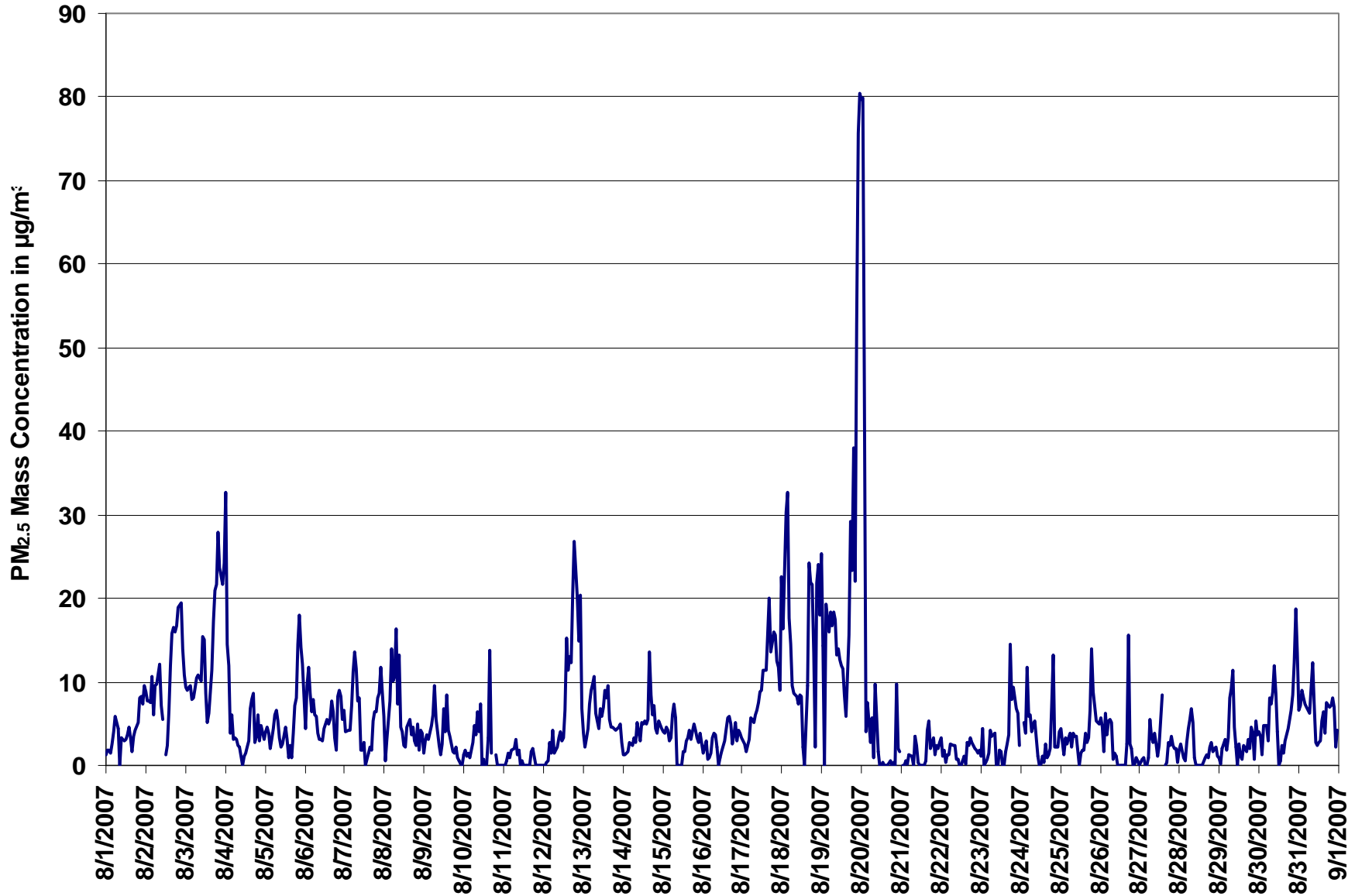


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

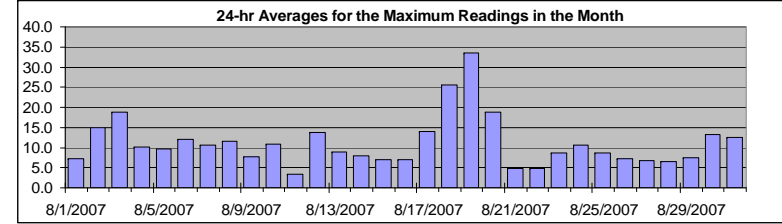
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	88.4	µg/m ³	20-Aug	0:00 1:00
Maximum 24-hr Value:	33.6	µg/m ³	19-Aug	



AIC Time:	0 hrs	Operational Time:	738 hrs							
Calibration Time:	1 hrs	AMD Operational Uptime:	99.3%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	57.5	28.1	12.9	8.3	5.4	2.6	1.5	11.1	8 µg/m ³	9.8 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-Aug-07	5	5	5	4	6	8	9	9	5	6	7	6	6	6	8	6	5	5	6	7	12	13	11	12	7.1	12.9
2-Aug-07	10	10	10	18	20	11	12	14	15	14	8	C	16	6	11	16	20	20	18	19	21	23	18	14	15.0	22.7
3-Aug-07	11	11	12	12	10	11	13	15	19	17	20	21	15	10	10	15	16	21	25	26	35	35	32	40	18.7	39.5
4-Aug-07	53	19	16	10	8	5	6	5	6	5	3	4	5	7	9	12	13	13	7	8	10	5	7	6	10.1	52.7
5-Aug-07	6	10	9	4	5	7	9	9	9	8	5	10	8	10	4	7	5	7	11	10	22	22	22	15	9.7	22.2
6-Aug-07	12	19	22	16	12	13	10	11	8	9	8	8	7	9	9	10	11	10	15	9	19	17	15	11	12.0	21.8
7-Aug-07	14	6	6	6	12	17	16	16	13	12	7	6	9	6	6	6	7	12	11	10	14	11	19	13	10.5	18.7
8-Aug-07	11	5	7	14	17	22	21	22	14	21	12	9	5	6	10	10	7	7	7	7	13	12	8	7	11.5	22.2
9-Aug-07	5	5	7	5	8	10	15	13	9	5	5	16	12	7	12	10	8	4	5	5	4	3	7	4	7.7	15.9
10-Aug-07	5	4	5	4	2	5	7	7	11	16	19	9	9	6	7	53	59	11	D	6	1	3	1	0	10.9	59.4
11-Aug-07	2	2	2	3	3	4	5	7	5	7	3	3	2	4	4	3	1	5	5	2	2	2	2	3	3.3	6.8
12-Aug-07	3	0	2	2	5	4	8	9	7	8	10	9	8	14	21	17	24	20	25	33	40	22	30	9	13.8	39.5
13-Aug-07	9	5	6	6	9	12	12	13	13	8	12	9	10	12	11	12	11	7	6	7	6	6	7	6	8.9	13.0
14-Aug-07	3	4	3	4	5	6	6	6	6	10	7	10	9	9	10	12	19	14	10	12	7	6	7	7	7.8	19.4
15-Aug-07	7	7	6	6	5	6	8	9	11	10	6	6	8	7	7	8	8	6	9	8	7	5	5	6	7.0	10.6
16-Aug-07	4	8	7	5	5	4	5	7	7	6	5	5	6	10	9	11	11	10	5	7	10	6	7	7	6.9	11.1
17-Aug-07	7	4	3	4	5	9	10	8	11	12	11	17	15	16	15	22	40	20	18	18	17	15	16	24	14.0	40.4
18-Aug-07	35	29	42	40	27	18	14	14	12	14	10	12	16	14	27	19	36	27	28	27	19	64	38	29	25.4	63.7
19-Aug-07	37	28	17	21	20	23	22	22	20	16	17	15	19	17	14	26	26	45	48	54	51	74	85	87	33.6	87.2
20-Aug-07	88	85	77	12	13	11	12	11	19	14	10	6	4	11	3	6	9	7	7	3	2	32	7	4	18.9	88.4
21-Aug-07	D	4	2	2	2	4	4	5	7	6	6	5	4	5	2	7	11	9	5	5	3	6	4	6	4.8	10.6
22-Aug-07	6	4	3	2	3	3	5	4	6	4	4	7	3	7	5	4	8	8	8	6	6	4	4	4	4.9	8.0
23-Aug-07	4	16	8	2	3	3	15	8	7	4	4	7	8	4	4	6	5	8	28	11	14	16	17	8	8.7	28.1
24-Aug-07	D	D	18	13	23	10	9	9	9	12	6	9	10	9	8	7	6	6	5	16	29	8	5	6	10.6	29.0
25-Aug-07	6	6	4	6	5	5	6	5	11	11	9	7	5	7	8	10	8	9	12	29	13	9	7	8	8.6	29.0
26-Aug-07	9	9	5	9	6	7	7	8	5	7	6	6	2	3	3	4	10	40	12	7	3	2	3	2	7.3	39.7
27-Aug-07	1	3	2	2	2	4	10	10	9	9	8	5	16	28	D	5	7	7	5	7	5	4	4	2	6.8	28.3
28-Aug-07	5	5	3	3	5	24	24	10	10	6	1	5	4	2	4	5	3	4	5	5	8	5	4	3	6.4	24.0
29-Aug-07	6	2	5	7	4	6	14	14	17	9	9	5	6	9	6	8	5	7	4	7	12	4	7	5	7.4	17.3
30-Aug-07	8	9	4	9	10	5	17	12	14	18	17	18	5	6	9	5	10	15	21	14	13	20	32	24	13.2	32.3
31-Aug-07	19	10	11	12	10	11	9	12	15	13	11	10	9	8	10	21	26	13	12	14	17	11	7	10	12.5	25.7
Hourly Avg	13.5	11.2	10.6	8.5	8.6	9.3	11.0	10.5	10.6	10.2	8.6	8.7	8.4	8.9	8.8	11.6	14.0	12.9	12.8	12.9	14.0	14.9	14.1	12.3		
Hourly Max	88.4	84.6	77.2	40.2	26.5	23.7	24.0	22.4	20.4	20.5	19.7	21.5	18.9	28.3	26.6	53.1	59.4	45.1	48.1	54.3	50.7	74.2	85.2	87.2		

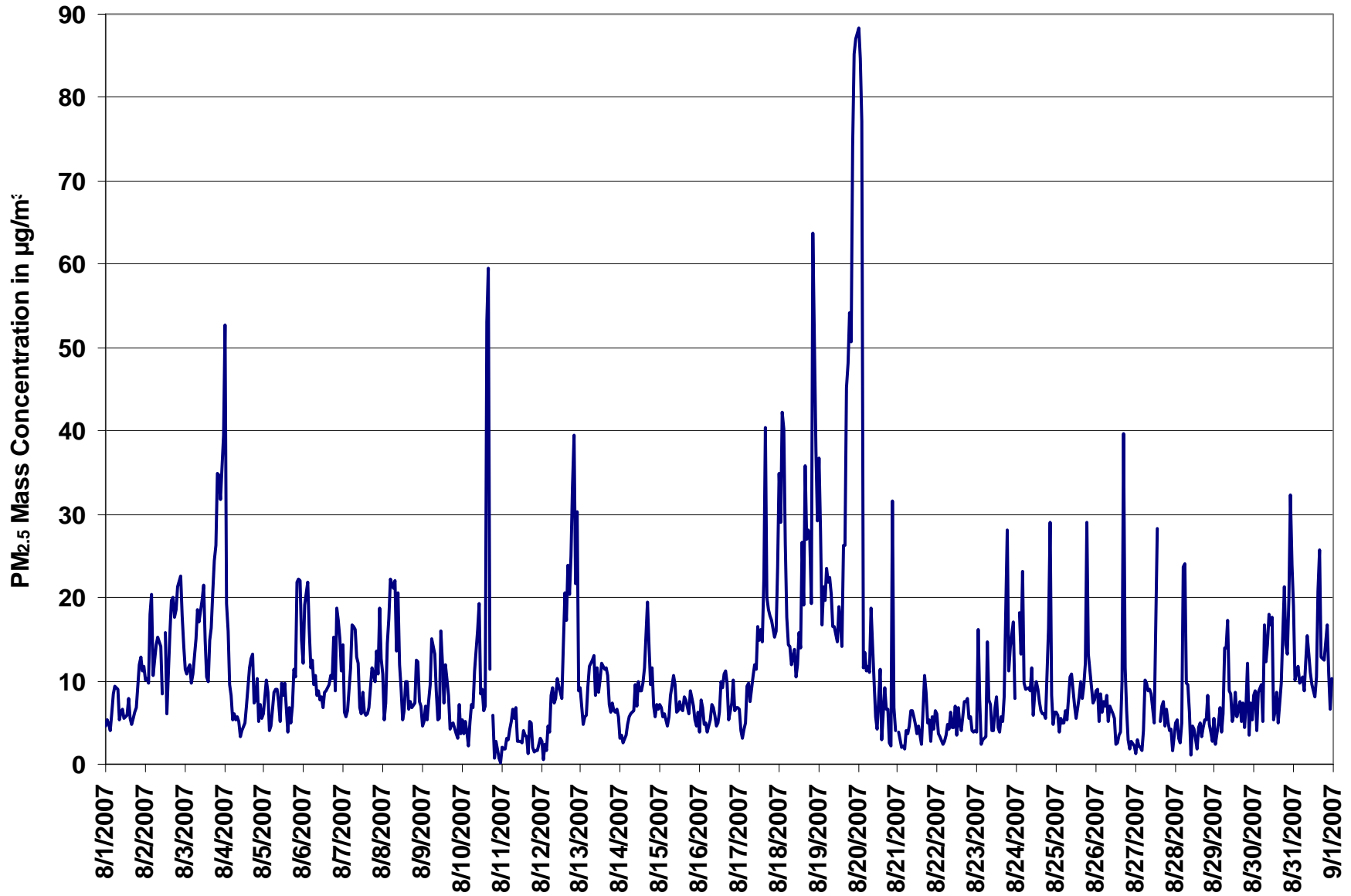
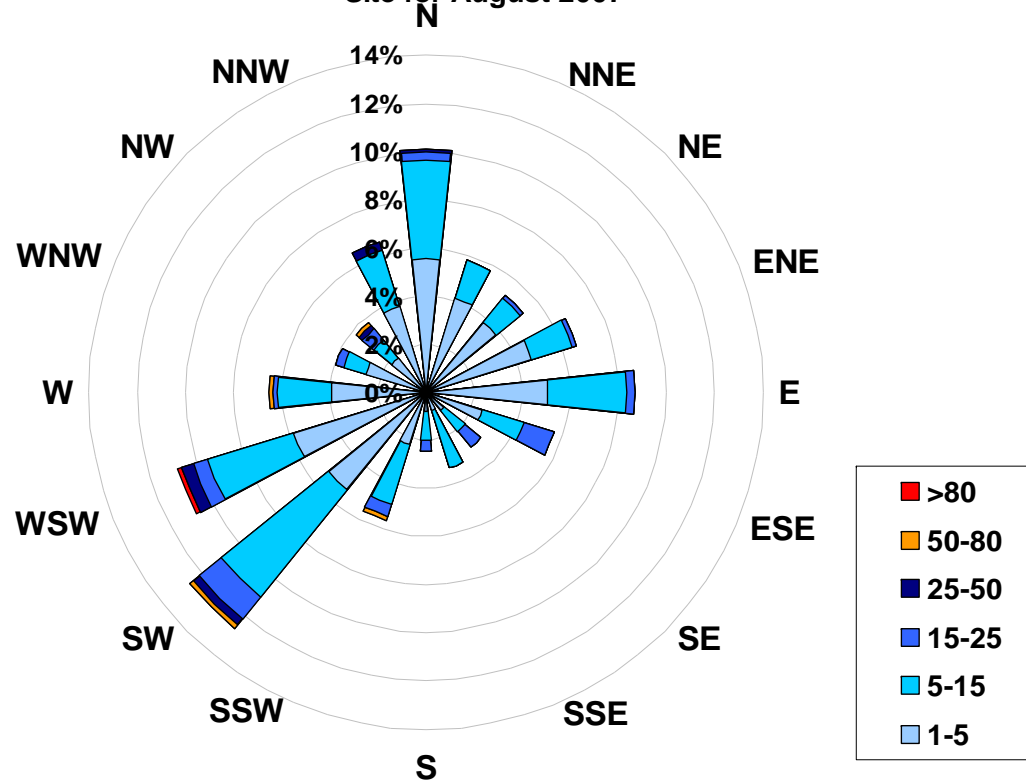


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 August 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	452
5	to	15	229
15	to	25	43
25	to	50	9
50	to	80	4
	>	80	1
Total Non-Zero Values			738



PAS - Crescent Heights Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

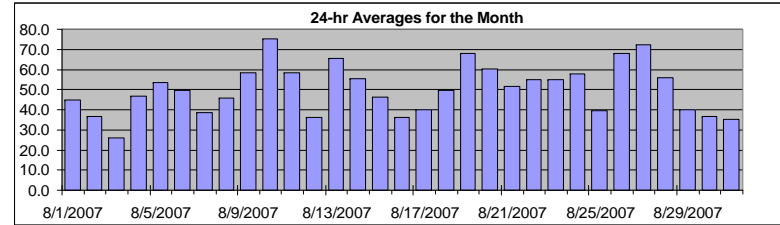
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	91.6 %	27-Aug	5:00 6:00
Maximum 24-hr Value:	75.4 %	10-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	89.0	84.7	66.1	48.7	34.4	19.7	14.4	50.3 %	48.7 %

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-Aug-07	62	65	69	73	74	72	67	58	39	37	35	33	31	29	27	25	24	23	25	28	34	43	48	52	44.8	74.3	
2-Aug-07	57	60	64	66	70	66	56	47	38	28	24	21	16	14	14	16	17	19	21	25	30	38	39	35	36.7	69.9	
3-Aug-07	32	29	30	32	34	35	35	34	33	27	22	20	22	21	17	14	14	15	18	22	25	27	32	39	26.2	38.7	
4-Aug-07	65	70	73	69	73	74	69	61	54	48	39	33	30	27	23	20	20	26	26	29	39	46	51	57	46.8	74.1	
5-Aug-07	65	72	76	80	83	84	78	71	64	58	51	45	41	39	36	33	31	29	32	34	41	45	50	50	53.6	83.5	
6-Aug-07	49	48	63	66	73	80	77	69	59	50	44	39	36	35	32	29	29	30	31	32	42	50	60	64	49.4	79.9	
7-Aug-07	67	67	73	69	63	55	50	42	34	30	23	21	20	18	16	16	16	17	23	27	33	37	46	61	38.5	72.5	
8-Aug-07	64	61	55	52	53	58	56	49	36	39	40	38	35	34	37	39	38	40	40	41	44	48	49	54	45.9	64.4	
9-Aug-07	56	58	61	63	67	72	77	75	61	52	45	44	47	49	46	46	47	48	50	57	63	69	72	75	58.4	77.3	
10-Aug-07	77	81	84	85	87	87	87	88	91	90	74	65	57	49	46	44	82	73	68	76	79	79	80	81	75.4	90.7	
11-Aug-07	82	82	83	84	87	87	82	76	68	62	54	49	45	40	36	33	31	32	38	44	47	51	59	54	58.5	87.5	
12-Aug-07	50	42	42	44	55	59	58	46	35	34	32	29	25	23	20	18	17	17	19	25	28	31	55	66	36.1	65.9	
13-Aug-07	72	75	78	82	85	86	85	82	74	63	56	52	49	48	47	47	48	49	52	58	63	69	72	75	65.4	86.4	
14-Aug-07	75	74	76	76	78	80	76	67	60	55	51	46	44	42	37	36	34	35	36	42	48	51	55	56	55.5	80.1	
15-Aug-07	59	63	65	68	73	78	71	64	52	45	36	30	28	28	26	27	27	28	30	35	40	43	45	48	46.2	78.4	
16-Aug-07	49	49	53	53	50	50	50	50	43	35	28	24	23	21	20	20	22	24	26	28	32	36	40	42	36.2	53.4	
17-Aug-07	46	47	48	48	49	51	52	47	41	36	31	29	26	24	23	25	27	32	36	41	47	51	55	48	39.9	54.6	
18-Aug-07	52	47	43	57	67	70	73	70	69	64	56	49	45	37	23	26	32	39	38	45	37	42	50	55	49.5	72.8	
19-Aug-07	63	77	67	64	72	80	86	89	89	84	78	73	66	62	54	39	27	30	40	71	76	84	79	79	67.9	89.3	
20-Aug-07	82	82	79	85	89	89	88	83	77	66	56	47	44	43	41	36	34	36	34	37	42	54	61	64	60.4	89.4	
21-Aug-07	64	67	66	69	70	69	64	56	55	48	43	37	33	30	29	28	31	40	47	52	56	58	62	63	51.6	69.5	
22-Aug-07	64	67	71	74	73	74	74	67	61	56	49	44	38	36	36	37	37	40	42	47	51	56	60	64	54.9	73.7	
23-Aug-07	64	69	69	68	69	71	69	60	51	43	36	36	36	31	31	30	32	33	50	64	73	78	78	75	54.9	78.0	
24-Aug-07	72	62	68	68	82	88	87	83	76	71	62	51	43	40	37	36	34	33	34	43	49	55	59	61	58.0	87.8	
25-Aug-07	61	55	50	53	54	56	57	48	37	32	28	22	18	17	16	18	18	18	23	39	50	55	59	60	39.3	60.5	
26-Aug-07	62	66	66	74	81	85	83	80	73	64	59	50	43	40	41	40	41	68	85	85	84	84	86	87	67.7	86.7	
27-Aug-07	86	87	88	90	91	92	91	87	82	72	63	56	51	63	61	55	54	57	60	63	66	69	75	78	72.3	91.6	
28-Aug-07	83	86	86	87	88	89	84	77	70	58	48	42	36	32	30	28	29	29	35	41	43	48	48	47	56.1	88.6	
29-Aug-07	45	48	51	54	58	61	60	53	47	40	35	28	25	22	22	22	21	23	27	33	41	43	47	52	40.0	60.7	
30-Aug-07	57	61	62	64	72	73	65	55	44	36	28	20	15	12	11	9	11	12	15	20	24	29	40	47	36.7	73.3	
31-Aug-07	45	44	44	45	49	52	48	44	38	31	23	20	19	19	20	22	25	28	32	32	35	41	46	47	35.3	51.7	
Hourly Avg	62.1	63.3	64.6	66.5	69.9	71.6	69.4	63.8	56.5	50.1	43.6	38.4	35.1	33.1	30.7	29.5	30.6	33.0	36.6	42.5	47.2	51.9	56.7	59.2			
Hourly Max	86.2	86.8	87.8	89.6	90.7	91.6	90.7	89.3	90.7	89.7	78.0	72.8	66.2	63.3	60.9	55.2	82.0	73.4	85.0	85.1	84.3	84.4	85.7	86.7			

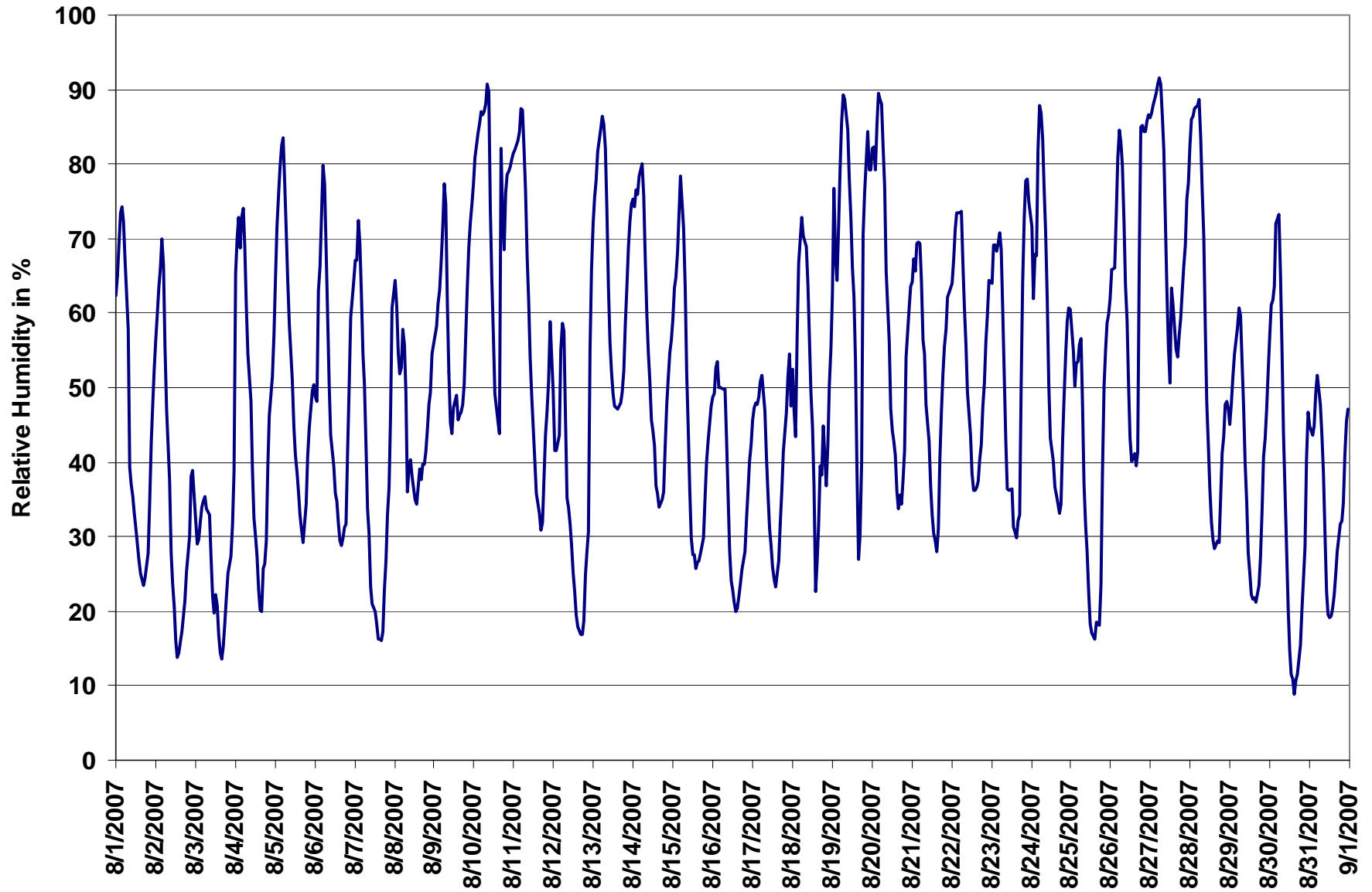


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights Temperature Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

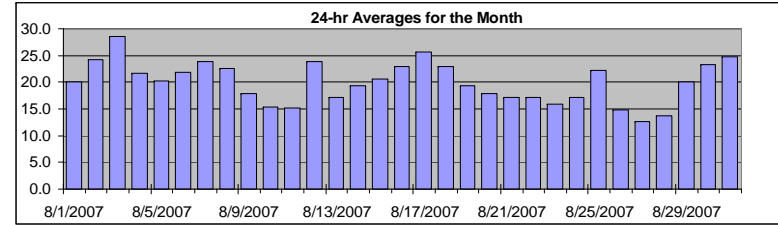
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	35.5 °C	3-Aug	16:00 17:00
Maximum 24-hr Value:	28.5 °C	3-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.0	31.7	24.7	19.5	14.9	10.8	7.5	20.0 °C	19.5 °C

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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	0:00	24-hour Average	Daily Maximum
1-Aug-07	16	15	13	12	12	12	13	17	20	21	22	24	25	26	26	27	27	27	27	25	22	20	17	15		20.1	27.3	
2-Aug-07	14	13	13	12	12	12	15	19	23	28	30	31	32	33	34	34	34	33	32	29	27	24	23	24		24.2	33.9	
3-Aug-07	25	26	26	25	24	24	24	27	28	30	32	32	30	31	34	35	35	34	32	30	28	25	22	22		28.5	35.5	
4-Aug-07	20	19	18	17	15	14	15	17	19	21	24	26	27	28	29	29	28	27	26	24	24	21	19	18	17		21.7	29.0
5-Aug-07	16	15	14	13	12	12	14	17	19	20	22	24	25	26	26	27	27	27	26	25	23	21	19	19		20.3	27.0	
6-Aug-07	20	21	19	18	16	15	16	18	20	22	24	25	27	27	28	28	28	28	26	25	22	20	18	16		21.9	28.5	
7-Aug-07	15	14	13	14	15	16	18	21	25	27	29	31	32	32	32	32	31	30	29	27	24	24	22	20		23.9	32.3	
8-Aug-07	19	19	18	18	17	18	18	21	24	25	26	27	28	28	27	26	27	26	25	24	22	21	20	18		22.5	28.2	
9-Aug-07	17	16	15	14	14	13	14	15	19	21	22	22	22	22	23	22	22	22	21	19	16	15	14	13		18.0	22.6	
10-Aug-07	13	13	13	13	12	12	13	13	13	14	19	21	22	24	25	24	15	17	16	14	12	12	11	10		15.4	24.8	
11-Aug-07	9	9	8	8	7	7	8	11	13	15	17	18	20	21	22	23	23	23	22	20	18	16	14	15		15.2	23.2	
12-Aug-07	15	17	17	17	15	14	15	19	24	24	26	28	29	31	32	33	34	33	31	28	26	24	20	17		23.8	33.9	
13-Aug-07	16	14	13	12	12	12	13	14	16	18	20	21	22	23	23	22	22	21	20	18	16	15	14	14		17.2	22.6	
14-Aug-07	13	13	13	13	12	12	13	15	18	20	21	23	23	25	27	27	27	26	25	23	21	20	19	18		19.4	27.3	
15-Aug-07	17	16	16	16	14	12	14	17	21	22	22	24	25	26	27	26	27	26	25	23	20	19	18	18		20.5	26.6	
16-Aug-07	18	17	16	15	16	16	17	18	20	24	26	28	29	30	31	31	30	29	27	26	25	23	21	21		23.0	31.0	
17-Aug-07	19	19	18	18	18	18	18	21	24	26	29	30	31	33	34	34	33	31	30	29	27	26	25	26		25.7	34.2	
18-Aug-07	24	23	21	18	16	15	15	16	17	18	21	24	26	28	30	30	29	29	30	28	26	24	22	21		22.9	30.3	
19-Aug-07	19	18	18	16	14	13	13	14	15	16	18	19	21	22	25	29	32	30	27	21	17	15	15	15		19.3	31.7	
20-Aug-07	15	14	14	13	13	13	13	14	17	19	20	21	21	22	22	23	24	23	22	20	19	17	16	15		17.9	23.7	
21-Aug-07	14	12	12	12	12	12	13	15	17	19	21	22	23	23	22	23	22	20	18	17	16	16	15	15		17.2	23.1	
22-Aug-07	15	14	13	13	13	13	13	15	17	18	20	21	22	22	22	21	22	21	20	18	17	15	14	12		17.1	22.3	
23-Aug-07	12	11	11	11	10	9	11	13	16	18	19	20	20	22	22	22	21	21	18	16	15	14	15	15		15.9	22.0	
24-Aug-07	14	14	13	13	13	12	12	13	15	16	18	20	21	22	23	23	24	24	23	20	18	15	12	12		17.1	23.6	
25-Aug-07	13	15	17	17	17	17	17	19	23	25	26	28	30	30	31	29	30	30	28	23	20	18	17	17		22.2	30.5	
26-Aug-07	16	15	14	13	12	11	12	13	14	16	17	19	21	22	21	21	21	15	12	11	11	10	10	10		14.9	21.5	
27-Aug-07	9	9	9	9	8	8	8	10	11	14	16	18	18	16	16	17	16	15	15	14	13	12	10	9		12.6	18.3	
28-Aug-07	8	7	7	6	5	5	6	9	11	15	17	18	19	20	21	22	22	21	19	17	16	13	12	13		13.7	21.9	
29-Aug-07	14	13	12	12	11	11	13	17	20	23	24	26	27	28	28	28	29	28	26	23	20	18	16	14		20.0	28.7	
30-Aug-07	13	13	12	12	11	10	12	16	20	25	29	32	34	35	35	35	34	34	31	28	25	23	21	19		23.2	35.4	
31-Aug-07	18	18	18	17	16	16	17	19	23	27	31	33	33	33	33	32	31	30	28	27	26	24	22	22		24.8	33.0	
Hourly Avg	15.7	15.3	14.7	14.0	13.4	13.1	14.1	16.2	18.7	20.9	22.8	24.4	25.4	26.1	26.8	27.0	26.7	25.8	24.3	22.3	20.3	18.7	17.2	16.4				
Hourly Max	24.9	25.9	25.7	25.0	24.3	23.9	24.4	26.7	28.5	30.5	32.1	32.7	33.8	35.1	34.8	35.4	35.5	34.4	32.2	30.1	27.8	26.1	25.2	25.8				

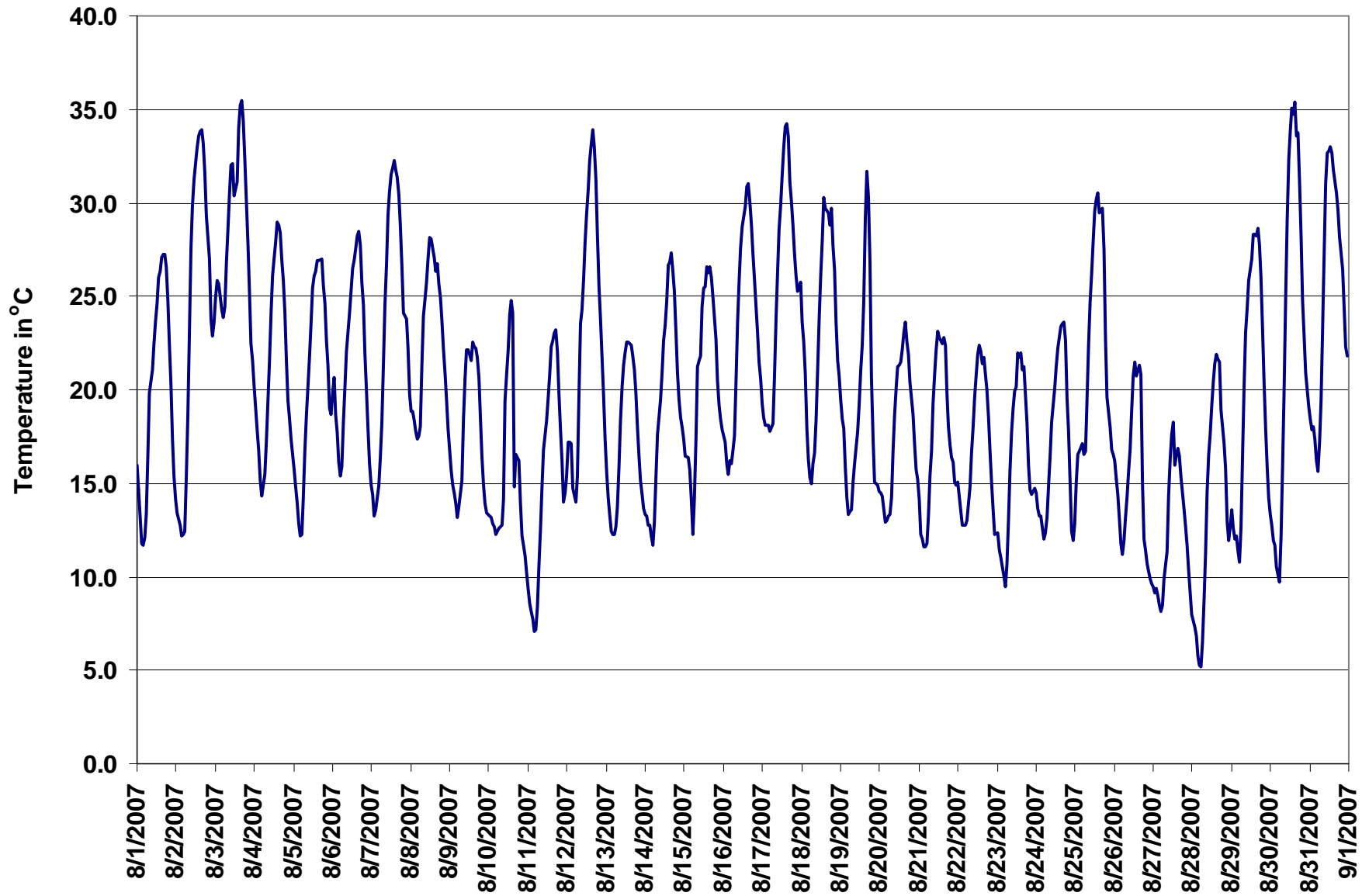


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

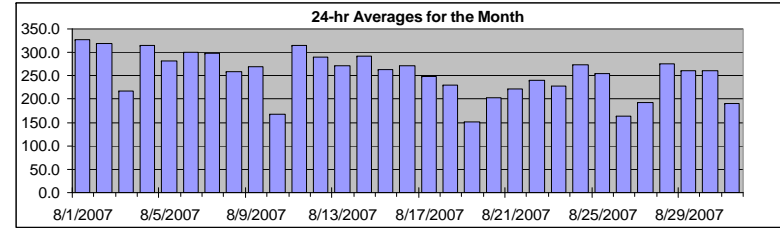
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	895.9	W/m ²	2-Aug	12:00 13:00
Maximum 24-hr Value:	327.9	W/m ²	1-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	873.6	808.4	504.9	95.0	0.0	0.0	0.0	253.3 W/m ²	95.0 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	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	0	0	0	0	1	48	192	358	536	680	796	871	884	874	801	685	536	366	196	44	1	0	0	0	327.9	884.4	
2-Aug-07	0	0	0	0	1	43	179	347	520	673	794	867	896	862	784	655	503	326	160	32	1	0	0	0	318.6	895.9	
3-Aug-07	0	0	0	0	1	30	135	290	443	607	713	432	218	208	734	643	467	209	73	20	0	0	0	0	217.7	733.8	
4-Aug-07	0	0	0	0	1	36	170	338	511	666	788	866	890	859	803	637	500	313	164	33	1	0	0	0	315.7	890.1	
5-Aug-07	0	0	0	0	1	26	143	307	440	578	664	782	874	701	726	581	461	315	134	31	0	0	0	0	281.9	874.4	
6-Aug-07	0	0	0	0	0	6	96	311	494	650	772	837	884	841	764	656	510	229	119	41	1	0	0	0	300.4	884.1	
7-Aug-07	0	0	0	0	1	35	163	331	512	663	777	855	873	812	773	573	476	174	108	22	0	0	0	0	297.8	872.6	
8-Aug-07	0	0	0	0	1	37	134	397	434	521	759	837	798	519	578	453	453	175	94	19	0	0	0	0	258.8	837.4	
9-Aug-07	0	0	0	0	0	30	158	320	494	656	795	559	504	510	762	628	536	324	154	23	0	0	0	0	268.9	795.1	
10-Aug-07	0	0	0	0	0	35	18	25	20	315	684	545	428	626	453	263	187	252	151	25	0	0	0	0	167.8	684.3	
11-Aug-07	0	0	0	0	0	32	165	335	510	664	785	858	882	855	783	666	510	337	162	20	0	0	0	0	315.3	881.8	
12-Aug-07	0	0	0	0	0	25	138	295	464	614	743	827	838	806	736	605	444	283	128	19	0	0	0	0	290.1	837.8	
13-Aug-07	0	0	0	0	0	11	57	147	286	597	750	813	771	816	696	634	475	303	133	17	0	0	0	0	271.1	815.7	
14-Aug-07	0	0	0	0	0	10	102	286	470	624	744	822	848	820	745	627	453	292	133	14	0	0	0	0	291.2	847.6	
15-Aug-07	0	0	0	0	0	20	145	305	495	383	341	781	882	698	818	524	481	306	139	15	0	0	0	0	263.9	882.1	
16-Aug-07	0	0	0	0	0	16	139	309	478	632	743	818	827	790	678	569	289	194	42	6	0	0	0	0	272.1	827.2	
17-Aug-07	0	0	0	0	0	15	96	250	415	572	693	771	630	745	679	548	378	83	62	17	0	0	0	0	248.1	771.0	
18-Aug-07	0	0	0	0	0	14	68	146	221	471	673	778	741	721	689	442	238	156	139	19	0	0	0	0	229.8	778.1	
19-Aug-07	0	0	0	0	0	8	82	107	88	205	339	345	444	478	500	574	359	104	11	1	0	0	0	0	151.9	573.8	
20-Aug-07	0	0	0	0	0	4	63	169	426	577	701	592	471	371	483	408	401	134	51	5	0	0	0	0	202.3	701.4	
21-Aug-07	0	0	0	0	0	14	131	304	453	639	677	767	818	404	380	295	266	142	37	3	0	0	0	0	222.2	818.5	
22-Aug-07	0	0	0	0	0	12	114	222	467	502	707	760	766	733	518	287	397	183	79	8	0	0	0	0	239.7	766.1	
23-Aug-07	0	0	0	0	0	12	102	254	494	585	510	502	650	842	636	466	212	173	16	2	0	0	0	0	227.4	842.4	
24-Aug-07	0	0	0	0	0	6	89	193	438	598	718	799	843	806	698	589	408	265	102	5	0	0	0	0	273.3	843.2	
25-Aug-07	0	0	0	0	0	9	116	282	466	582	645	726	812	752	725	440	288	187	96	3	0	0	0	0	255.3	812.1	
26-Aug-07	0	0	0	0	0	8	54	112	200	331	358	626	772	572	244	332	161	54	76	6	0	0	0	0	162.8	771.9	
27-Aug-07	0	0	0	0	0	4	44	139	254	617	697	625	590	290	534	429	305	83	27	1	0	0	0	0	193.3	697.3	
28-Aug-07	0	0	0	0	0	8	117	278	452	608	723	809	826	790	718	600	425	225	50	2	0	0	0	0	276.3	825.6	
29-Aug-07	0	0	0	0	0	6	99	264	434	590	718	788	812	785	573	441	427	246	77	2	0	0	0	0	260.9	812.2	
30-Aug-07	0	0	0	0	0	6	102	271	446	600	722	804	804	792	641	568	204	256	40	2	0	0	0	0	260.7	804.2	
31-Aug-07	0	0	0	0	0	6	93	257	439	573	668	769	509	532	305	185	140	58	17	0	0	0	0	0	189.6	769.5	
Hourly Avg	0.0	0.0	0.0	0.0	0.3	18.5	113.0	256.5	412.8	566.9	683.8	736.5	735.0	684.3	643.7	516.2	383.5	217.7	95.8	14.8	0.2	0.0	0.0	0.0			
Hourly Max	0.1	0.1	0.4	0.1	1.3	47.6	191.6	397.3	535.6	680.4	795.5	870.9	895.9	874.4	818.2	684.8	535.9	366.3	196.5	43.8	1.3	0.2	0.1	0.1			

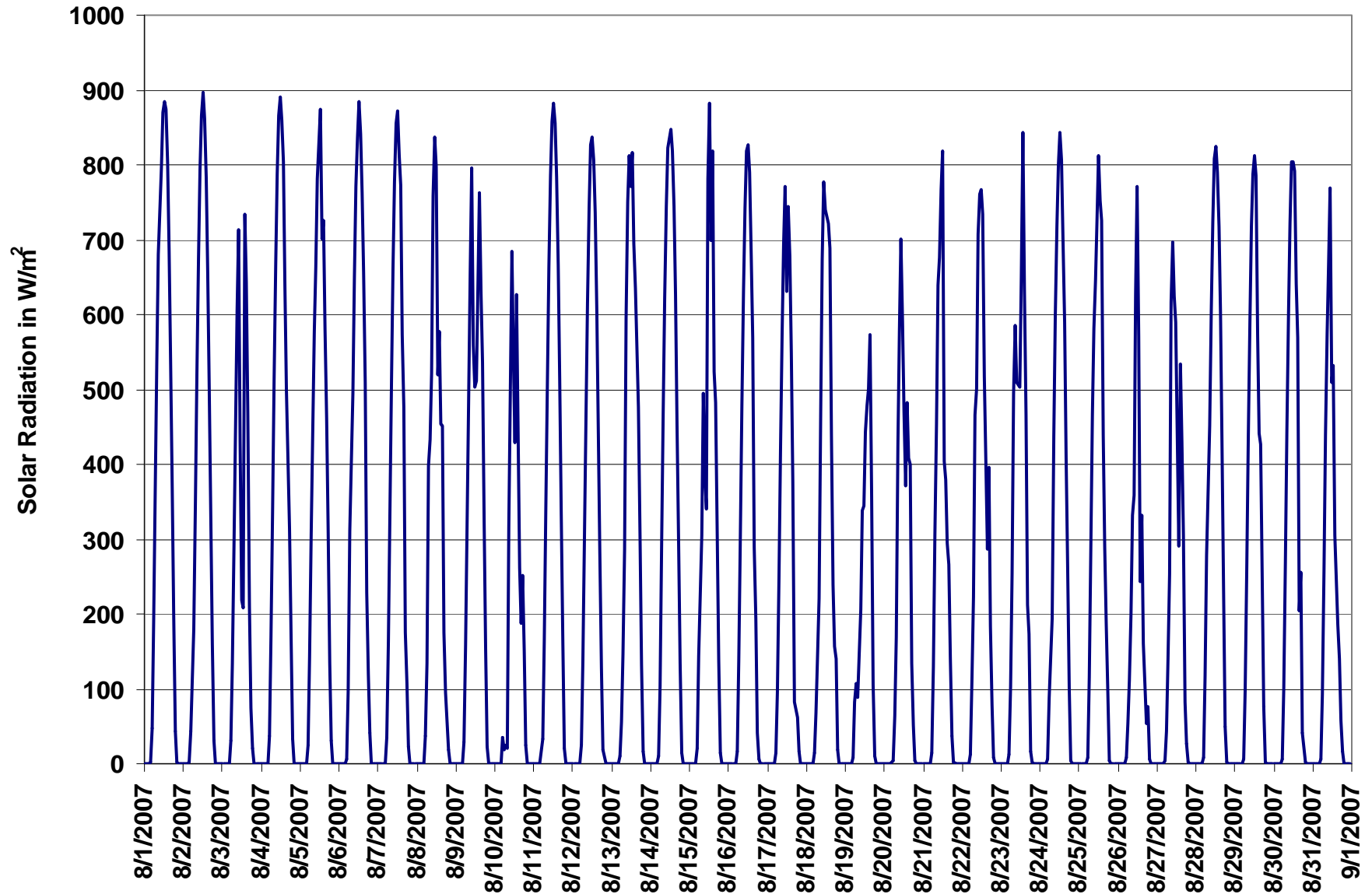


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

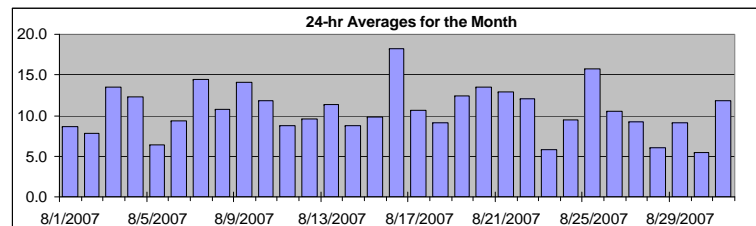
Wind Speed (WSs)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	30.1	km/hr	26-Aug	18:00 19:00
Maximum 24-hr Value:	18.2	km/hr	16-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	S
	25.8	20.2	13.7	9.7	6.7	4.1	3.2	10.6	km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
	Hour Start 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
1-Aug-07	11	12	9	4	4	8	11	10	10	11	11	12	11	11	9	9	8	7	7	6	7	6	6	5	8.6	12.1
2-Aug-07	5	5	3	3	3	3	4	5	6	6	6	7	12	11	11	9	10	11	14	13	11	10	10	8	7.8	14.2
3-Aug-07	13	17	20	19	14	7	10	6	10	16	17	21	10	22	18	18	14	12	13	12	9	8	9	11	13.5	22.2
4-Aug-07	16	11	8	10	10	9	8	8	9	10	10	11	16	15	13	13	14	18	16	10	17	15	15	15	12.3	18.3
5-Aug-07	8	10	7	9	8	6	5	4	5	6	7	7	8	7	7	6	7	5	5	5	4	5	5	9	6.4	9.7
6-Aug-07	15	9	6	9	11	7	9	9	11	12	12	12	12	13	12	10	10	8	9	4	5	6	5	6	9.4	15.0
7-Aug-07	6	5	4	6	10	12	5	13	19	15	20	23	23	25	26	26	29	22	14	11	7	9	11	6	14.4	28.6
8-Aug-07	9	7	7	6	3	4	6	6	5	5	8	10	8	11	19	21	19	18	18	16	13	13	14	12	10.8	20.5
9-Aug-07	17	10	9	9	6	8	13	14	7	7	10	15	16	17	17	17	17	17	21	20	21	19	16	17	14.0	20.9
10-Aug-07	20	18	17	16	16	14	10	6	6	11	8	7	5	8	6	7	25	19	14	14	10	10	8	9	11.9	24.9
11-Aug-07	9	8	7	4	5	5	7	8	8	6	6	6	6	6	7	8	8	9	14	14	17	17	10	14	8.7	16.8
12-Aug-07	11	12	12	13	12	8	5	5	6	15	13	11	14	14	11	7	4	6	9	5	7	7	11	13	9.6	15.4
13-Aug-07	8	8	9	9	9	9	10	8	10	14	13	14	14	14	13	15	16	18	17	14	10	8	6	9	11.4	17.6
14-Aug-07	9	10	9	10	7	8	7	6	7	5	7	6	6	8	5	8	6	9	11	13	16	16	10	10	8.8	16.2
15-Aug-07	11	11	11	11	8	8	6	4	4	6	8	7	8	10	9	9	11	12	12	11	14	18	15	14	9.8	17.6
16-Aug-07	15	14	10	12	9	10	9	14	16	17	21	21	21	21	17	17	19	21	25	23	26	27	25	25	18.2	27.3
17-Aug-07	16	16	16	17	17	13	12	12	9	8	6	8	6	6	5	12	15	10	9	7	7	9	9	10	10.6	16.6
18-Aug-07	6	9	16	14	16	17	12	9	9	11	8	6	6	5	5	8	13	15	8	6	4	5	7	5	9.1	17.3
19-Aug-07	10	8	8	15	13	18	15	14	10	14	10	7	6	8	12	12	9	10	17	25	19	16	14	10	12.4	24.6
20-Aug-07	13	21	18	14	12	13	11	13	16	16	17	16	15	15	12	11	11	7	13	14	14	14	9	9	13.5	20.6
21-Aug-07	11	12	14	15	14	11	8	9	10	11	10	12	14	13	13	15	21	28	23	14	8	7	8	10	12.9	27.6
22-Aug-07	13	10	9	9	10	10	8	11	12	13	15	16	17	18	18	18	17	17	13	9	7	8	7	2	12.0	18.4
23-Aug-07	4	2	5	4	4	5	3	3	5	6	6	5	8	8	8	7	6	6	13	11	9	4	3	4	5.8	12.6
24-Aug-07	6	6	4	5	8	10	11	13	15	16	16	15	14	14	13	12	9	7	5	3	5	8	7	6	9.5	16.2
25-Aug-07	5	8	9	11	14	16	13	16	23	24	25	26	21	19	20	16	11	13	14	19	17	17	10	10	15.8	26.1
26-Aug-07	6	7	10	10	9	6	3	3	7	11	10	11	11	10	11	14	13	27	30	13	14	8	5	4	10.6	30.1
27-Aug-07	6	9	8	7	4	4	6	4	4	6	5	5	9	15	16	16	18	17	14	13	12	8	7	6	9.2	18.1
28-Aug-07	3	3	4	4	5	5	6	6	9	7	7	8	7	6	6	6	6	5	5	7	9	6	7	9	6.0	8.9
29-Aug-07	8	5	5	6	6	3	3	4	9	20	18	15	14	13	13	11	11	13	11	7	5	8	7	4	9.1	19.6
30-Aug-07	3	3	4	5	3	5	4	3	3	4	5	6	6	7	11	8	6	8	6	7	5	4	6	8	5.5	11.2
31-Aug-07	10	12	15	16	9	13	17	16	13	14	15	17	13	11	11	12	9	6	7	11	10	8	8	12	11.9	17.0
1-hr Average	9.8	9.6	9.4	9.7	9.1	8.9	8.2	8.5	9.4	11.1	11.3	11.7	11.5	12.3	12.1	12.2	12.7	12.9	13.2	11.5	11.0	10.5	9.3	9.4		
Hourly Max	20.5	20.6	20.1	18.6	16.6	17.9	17.0	16.1	23.1	24.2	25.4	26.1	22.7	25.0	25.8	25.9	28.6	27.6	30.1	24.6	26.1	27.3	24.9	25.3		



PAS - Crescent Heights Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

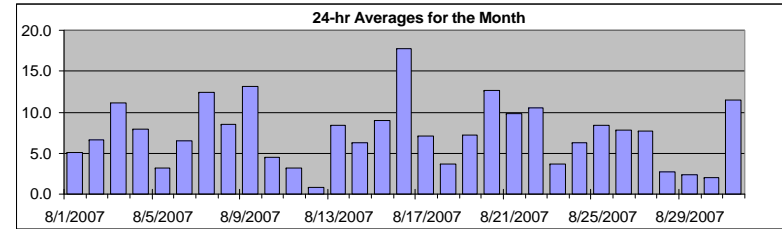
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Maximum 1-hr Average:	29.5	km/hr	26-Aug	18:00 19:00
Maximum 24-hr Value:	17.7	km/hr	16-Aug	



Calm Time:	3 hrs	0% calms	Operational Time:	741 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	25.3	20.0	13.4	9.3	5.7	2.9	1.6	1.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	11	12	9	4	4	8	11	10	8	10	11	11	10	9	8	6	6	6	6	6	7	5	6	5		5.0	12.0
2-Aug-07	5	4	3	3	3	3	4	4	6	4	4	4	10	10	10	7	9	10	14	13	11	10	10	8		6.7	14.1
3-Aug-07	13	16	20	18	14	5	9	5	9	15	17	21	10	22	17	17	14	11	13	12	9	8	8	9		11.2	21.8
4-Aug-07	16	9	8	10	10	9	8	8	8	9	9	10	16	14	11	12	13	18	16	10	17	15	15	15		7.9	18.0
5-Aug-07	8	10	7	9	8	5	3	2	3	5	5	calm	5	5	5	4	5	4	5	4	4	4	2	8		3.2	9.6
6-Aug-07	15	9	4	8	11	5	9	9	11	12	11	11	11	13	11	9	10	7	7	2	4	6	4	5		6.5	14.8
7-Aug-07	5	5	3	5	10	12	3	13	18	15	19	23	22	25	25	26	28	22	13	10	7	8	9	3		12.4	28.5
8-Aug-07	9	7	6	4	3	4	5	5	4	3	6	8	5	8	18	20	19	18	18	16	13	13	14	12		8.5	20.3
9-Aug-07	16	9	7	9	6	7	13	13	6	5	8	14	15	16	17	17	17	17	20	20	21	19	16	17		13.1	20.9
10-Aug-07	20	18	17	16	16	13	10	6	6	10	8	6	4	7	4	2	22	19	14	14	9	9	8	8		4.5	22.1
11-Aug-07	9	8	7	4	5	4	7	7	8	4	4	3	3	3	5	7	7	8	14	14	17	17	10	14		3.2	16.7
12-Aug-07	11	12	11	13	12	7	4	3	4	15	13	10	13	13	10	6	1	5	9	4	7	6	11	13		0.8	15.0
13-Aug-07	7	8	9	9	9	9	9	7	10	13	12	14	14	13	12	14	16	17	17	13	9	8	6	9		8.4	17.3
14-Aug-07	9	9	9	10	7	8	7	6	6	3	6	2	2	5	2	6	4	9	11	13	16	16	9	10		6.3	16.1
15-Aug-07	11	11	11	10	8	8	6	calm	2	6	8	6	5	9	7	8	10	11	11	11	14	17	15	13		9.0	17.3
16-Aug-07	14	14	8	12	8	10	7	14	16	17	21	20	21	20	16	16	19	20	25	23	26	27	25	25		17.7	27.2
17-Aug-07	16	15	16	17	17	13	12	12	9	8	4	7	5	2	1	10	14	10	9	7	7	8	8	10		7.0	16.5
18-Aug-07	4	7	15	13	16	17	11	9	9	10	8	5	3	4	4	7	12	14	8	5	1	5	7	3		3.6	17.2
19-Aug-07	9	7	6	14	13	18	14	14	10	13	9	6	3	8	12	11	9	9	13	20	18	15	13	9		7.2	19.8
20-Aug-07	13	21	18	14	12	13	10	13	15	16	16	16	14	14	11	11	10	7	13	14	14	13	8	9		12.7	20.5
21-Aug-07	11	12	14	15	14	11	7	8	9	10	10	11	12	12	13	15	20	28	23	14	7	6	8	10		9.9	27.5
22-Aug-07	13	10	9	9	10	10	8	11	11	12	15	16	16	18	18	18	16	17	13	9	7	8	6	2		10.5	18.0
23-Aug-07	4	2	4	4	4	4	2	2	4	5	5	3	6	5	7	5	5	4	11	10	8	4	1	2		3.7	11.3
24-Aug-07	5	6	1	3	8	10	11	13	15	16	16	14	13	14	12	11	8	6	4	3	4	8	7	5		6.3	15.9
25-Aug-07	4	8	8	11	13	16	13	16	23	24	25	25	21	19	20	16	10	13	14	19	17	17	10	9		8.4	25.4
26-Aug-07	6	5	9	10	9	6	3	3	7	10	9	10	10	9	10	14	13	20	30	12	14	7	5	4		7.8	29.5
27-Aug-07	5	9	7	7	4	4	6	3	3	3	4	4	6	15	16	16	18	17	14	13	12	8	7	6		7.7	17.8
28-Aug-07	2	calm	3	4	4	4	5	6	8	5	5	7	4	2	4	3	4	3	5	7	8	6	7	9		2.7	8.6
29-Aug-07	8	5	5	5	6	3	1	2	8	8	19	17	14	13	12	10	9	12	10	7	5	8	7	4		2.4	19.2
30-Aug-07	3	2	3	4	3	4	3	2	1	4	3	5	3	5	10	5	6	7	6	6	5	3	5	8		2.0	10.4
31-Aug-07	10	12	15	15	9	13	17	15	13	14	15	16	13	10	10	11	8	5	7	10	10	8	7	11		11.5	16.9
1-hr Vector	3.2	0.6	0.8	1.4	1.7	2.9	3.0	3.2	4.1	4.6	4.2	4.5	3.5	3.9	3.5	3.8	3.2	5.2	5.6	3.6	3.9	3.1	2.5	2.0			
Hourly Max	20.2	20.5	20.0	18.5	16.5	17.8	16.9	16.0	22.9	23.9	25.1	25.4	22.2	24.7	25.4	25.6	28.5	27.5	29.5	23.0	26.0	27.2	24.6	25.2			



PAS - Crescent Heights Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	359.0	348.6	267.2	215.2	91.0	16.0	2.0	286 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	5	355	359	349	268	245	227	221	290	292	293	287	290	263	281	272	287	286	337	358	21	83	115	116	298	WNW	
2-Aug-07	108	124	63	58	28	85	84	59	28	83	82	139	160	143	135	156	125	125	116	116	124	133	121	93	117	ESE	
3-Aug-07	68	159	165	165	169	147	166	184	217	204	217	215	172	221	202	196	199	187	198	211	243	233	196	282	194	SSW	
4-Aug-07	331	322	275	284	282	282	275	293	331	226	239	233	227	228	260	297	313	348	359	10	3	4	1	350	304	NW	
5-Aug-07	343	336	331	330	335	308	301	259	322	276	287	256	132	155	185	216	217	261	281	342	16	34	29	324	305	NW	
6-Aug-07	331	352	55	277	327	194	253	246	248	252	248	240	232	239	239	250	215	234	250	101	231	188	201	161	249	WSW	
7-Aug-07	162	166	127	171	220	224	237	210	219	213	241	236	241	244	243	238	228	238	248	252	247	275	330	47	234	SW	
8-Aug-07	101	162	217	333	50	58	117	108	93	80	9	49	83	36	14	11	25	23	26	45	56	39	41	31	41	NE	
9-Aug-07	44	51	53	43	10	2	2	21	70	21	34	2	351	352	357	2	16	22	25	30	33	38	57	52	24	NNE	
10-Aug-07	66	73	72	71	73	85	79	76	147	101	131	120	145	223	202	298	329	339	326	324	320	302	308	299	36	NE	
11-Aug-07	291	289	293	280	244	220	228	222	219	216	169	186	183	89	102	45	47	66	93	99	110	110	122	101	127	SE	
12-Aug-07	91	127	99	96	51	31	16	24	201	206	198	192	216	215	219	280	16	360	353	8	313	281	313	300	221	SW	
13-Aug-07	259	254	255	238	259	251	250	272	327	345	349	351	351	343	350	348	358	358	359	358	3	7	10	19	334	NNW	
14-Aug-07	54	70	69	84	104	111	101	102	116	249	184	200	356	115	155	207	158	75	66	67	71	83	79	62	91	E	
15-Aug-07	61	52	52	42	16	354	359	82	93	49	29	45	65	32	49	76	71	70	64	58	53	79	95	77	57	ENE	
16-Aug-07	87	100	80	105	94	93	58	53	69	82	91	96	91	98	110	99	96	90	93	98	109	108	91	81	92	E	
17-Aug-07	92	93	89	96	102	96	89	104	98	57	8	320	354	228	160	186	191	166	155	133	103	95	130	186	114	ESE	
18-Aug-07	354	260	232	237	224	227	235	242	254	254	235	227	158	135	109	46	87	96	109	128	308	104	110	127	207	SSW	
19-Aug-07	316	334	205	231	237	230	238	234	236	225	218	263	18	35	3	29	67	341	323	242	281	267	304	244	269	W	
20-Aug-07	215	212	233	242	241	240	247	243	266	274	270	277	282	265	266	263	267	253	248	248	261	289	236	238	253	WSW	
21-Aug-07	230	234	228	234	228	226	221	257	277	290	305	297	259	292	303	308	332	344	326	321	317	264	270	278	285	WNW	
22-Aug-07	289	293	279	270	272	271	251	281	285	287	299	304	310	322	321	325	324	339	349	3	2	0	355	23	310	NW	
23-Aug-07	343	356	338	344	333	343	35	7	20	30	44	30	359	3	28	16	25	38	269	249	253	312	284	306	346	NNW	
24-Aug-07	8	42	101	264	216	226	217	225	218	220	218	221	215	219	231	214	238	249	277	360	63	111	109	115	218	SW	
25-Aug-07	170	201	184	195	186	192	192	196	204	211	213	223	243	253	257	243	263	246	2	359	358	1	358	20	233	SW	
26-Aug-07	360	344	342	338	341	345	30	78	98	69	83	81	85	74	46	63	82	325	11	13	4	12	360	325	24	NNE	
27-Aug-07	333	333	356	344	339	304	218	252	241	232	7	7	256	341	344	338	350	350	347	346	347	346	332	329	335	NNW	
28-Aug-07	321	317	235	208	232	241	224	201	208	207	218	213	235	219	174	261	239	285	30	57	76	121	119	110	203	SSW	
29-Aug-07	102	114	100	72	47	71	48	202	190	212	221	218	220	240	260	248	296	337	9	24	95	113	121	109	213	SSW	
30-Aug-07	71	67	112	168	51	125	184	122	198	151	138	131	113	165	220	270	339	37	48	82	113	130	239	231	142	SE	
31-Aug-07	227	229	230	235	233	226	233	234	229	232	220	245	255	249	240	242	275	240	198	212	262	241	204	216	234	SW	
Hourly Avg	30	54	170	226	245	224	226	225	226	231	236	242	243	254	271	290	329	349	4	19	20	49	56	40			



PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: August 1, 2007 to September 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	62.2	50.1	22.7	13.2	8.5	5.1	4.0

Status Flag Characters

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

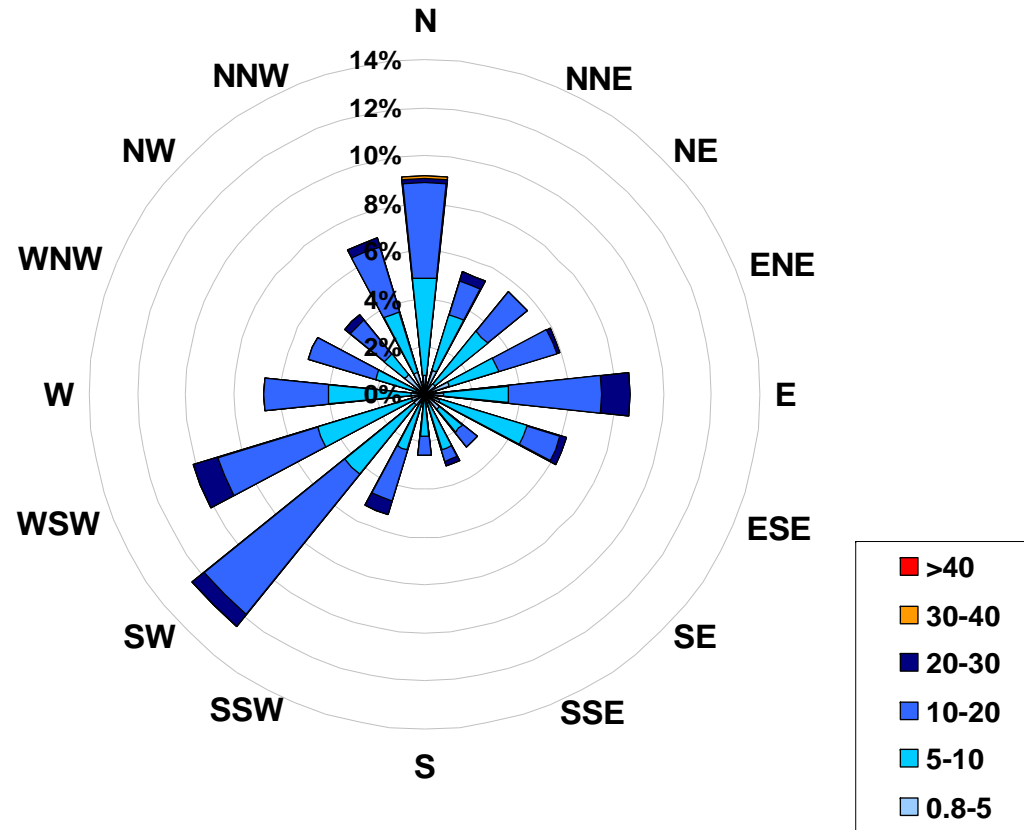
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	4	4	7	8	37	8	6	13	28	22	21	20	27	33	28	33	43	40	28	8	6	9	6	12	42.6	
2-Aug-07	15	14	24	18	9	15	17	17	16	52	47	58	26	27	28	35	22	15	7	5	8	10	8	15	58.4	
3-Aug-07	12	19	7	7	10	57	13	21	16	13	13	12	12	7	13	12	15	10	9	7	11	13	17	14	56.7	
4-Aug-07	7	17	11	10	10	10	15	21	27	19	36	25	13	18	22	23	17	8	7	9	3	3	4	5	35.5	
5-Aug-07	8	9	13	6	15	15	39	49	49	49	53	77	55	43	44	49	41	51	24	14	6	14	24	13	77.2	
6-Aug-07	6	9	35	30	16	37	13	13	14	14	18	21	21	19	22	29	23	30	45	39	15	13	26	18	45.4	
7-Aug-07	14	27	33	15	9	18	54	9	8	9	11	13	12	9	9	8	6	7	8	10	14	11	15	15	54.3	
8-Aug-07	10	20	34	13	13	19	20	23	38	37	42	28	61	35	12	8	10	9	7	6	6	6	6	6	60.9	
9-Aug-07	7	12	12	11	11	8	5	11	31	39	33	18	16	14	10	11	11	11	8	5	5	5	9	6	39.1	
10-Aug-07	7	6	7	10	7	10	15	18	33	13	24	28	51	39	56	65	20	7	8	7	12	9	11	9	65.2	
11-Aug-07	10	12	13	41	36	27	10	17	19	52	61	61	77	59	44	31	26	23	9	6	5	6	9	7	76.7	
12-Aug-07	11	18	13	8	10	10	20	41	42	12	13	15	19	14	23	23	63	20	10	38	16	28	10	15	62.8	
13-Aug-07	14	12	10	8	9	13	12	20	19	14	19	17	15	17	19	13	10	9	6	4	5	4	5	4	20.2	
14-Aug-07	7	8	5	7	12	7	13	18	35	50	40	64	55	32	54	43	34	20	9	7	6	7	10	10	64.1	
15-Aug-07	12	4	7	9	7	5	7	43	42	20	21	35	51	32	39	24	21	13	7	5	6	5	7	7	50.7	
16-Aug-07	13	8	19	10	26	10	21	9	8	11	10	12	12	13	13	16	13	8	6	6	5	5	6	6	25.9	
17-Aug-07	7	8	7	6	5	6	5	6	14	17	27	23	30	39	71	26	13	9	8	11	14	11	14	13	71.4	
18-Aug-07	43	41	13	15	9	6	8	15	21	13	25	41	42	49	41	22	11	6	16	16	42	16	9	28	48.6	
19-Aug-07	12	42	30	6	6	5	7	7	12	8	16	22	31	19	12	16	14	11	37	20	12	9	9	24	42.1	
20-Aug-07	9	5	7	8	8	8	11	10	8	11	11	14	13	10	14	14	16	16	8	7	7	15	19	12	19.2	
21-Aug-07	5	7	5	5	6	6	14	17	17	16	18	19	23	19	13	14	9	4	5	8	14	14	9	10	23.3	
22-Aug-07	9	10	11	8	9	9	13	13	15	19	16	16	18	12	11	9	11	7	7	5	3	3	7	17	19.4	
23-Aug-07	18	18	8	13	16	31	35	30	27	36	26	42	42	51	26	46	24	26	33	11	14	28	61	47	60.8	
24-Aug-07	14	14	45	19	8	6	7	7	8	9	11	13	17	16	19	22	26	21	30	11	19	7	11	11	45.2	
25-Aug-07	16	8	11	9	8	7	7	8	7	7	8	9	12	10	10	10	16	12	12	5	4	4	4	8	11	15.6
26-Aug-07	15	39	10	8	6	10	15	21	12	13	18	18	23	30	14	13	11	28	5	22	5	18	12	16	38.8	
27-Aug-07	17	7	6	5	20	13	13	51	68	63	30	49	32	15	9	11	10	6	5	5	5	4	5	7	68.2	
28-Aug-07	23	57	40	10	25	22	6	11	16	43	45	48	59	57	50	50	51	49	9	4	10	17	9	8	59.3	
29-Aug-07	9	12	9	6	6	33	49	50	16	11	10	16	18	21	20	18	20	11	4	8	17	10	8	21	49.7	
30-Aug-07	17	44	27	27	19	12	27	25	57	28	36	46	59	43	18	50	24	9	7	9	30	36	24	12	58.8	
31-Aug-07	9	8	5	6	14	12	5	7	6	10	8	13	15	18	19	11	12	26	38	6	9	8	18	19	38.3	

Hourly Max	43	57	45	41	37	57	54	51	68	63	61	77	77	59	71	65	63	51	45	39	42	36	61	47	
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--



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



Calms: 0%

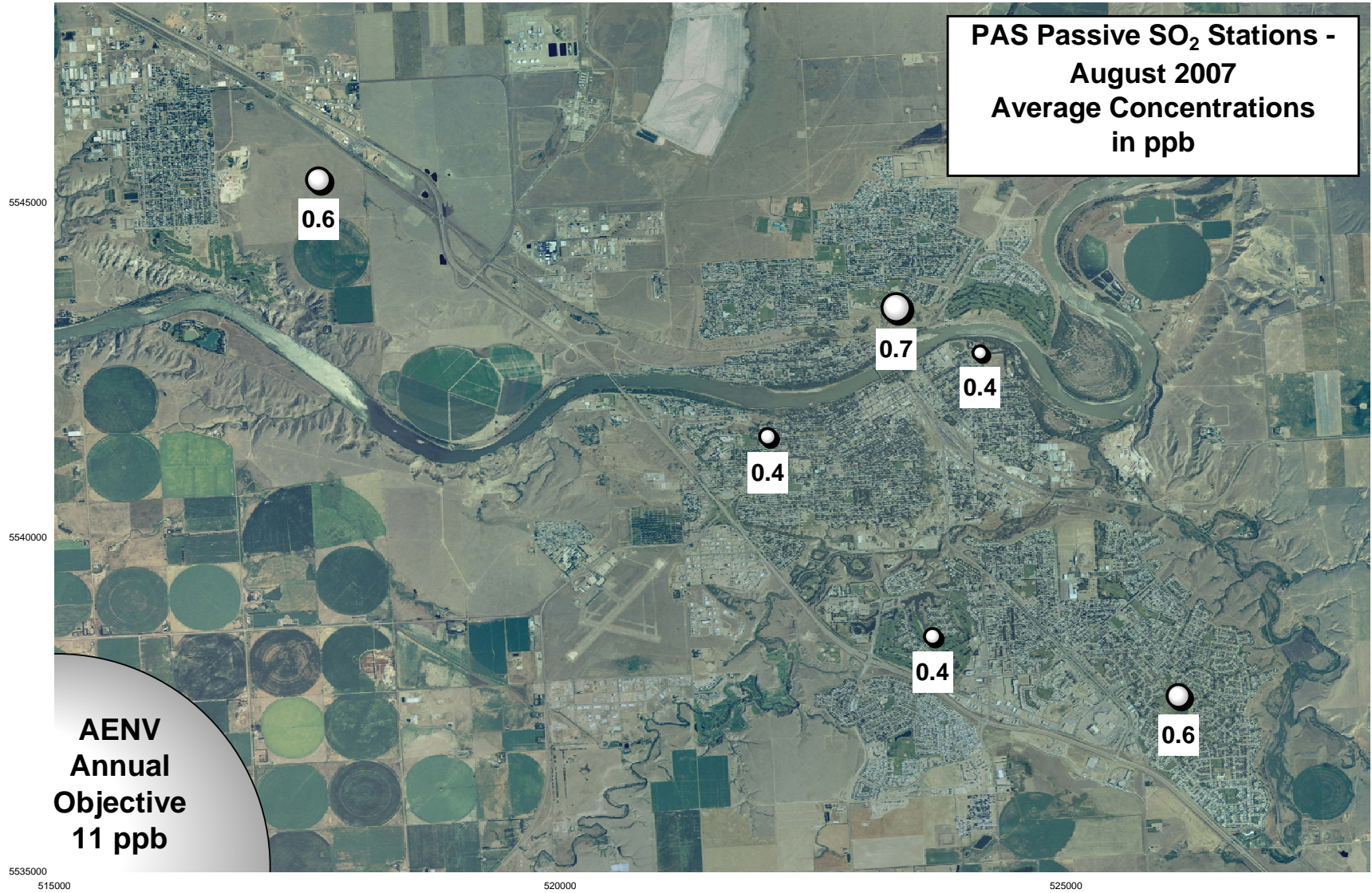
Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	80
5	to	10	310
10	to	20	314
20	to	30	39
30	to	40	1
	>	40	0
Total Non-Zero Values			744

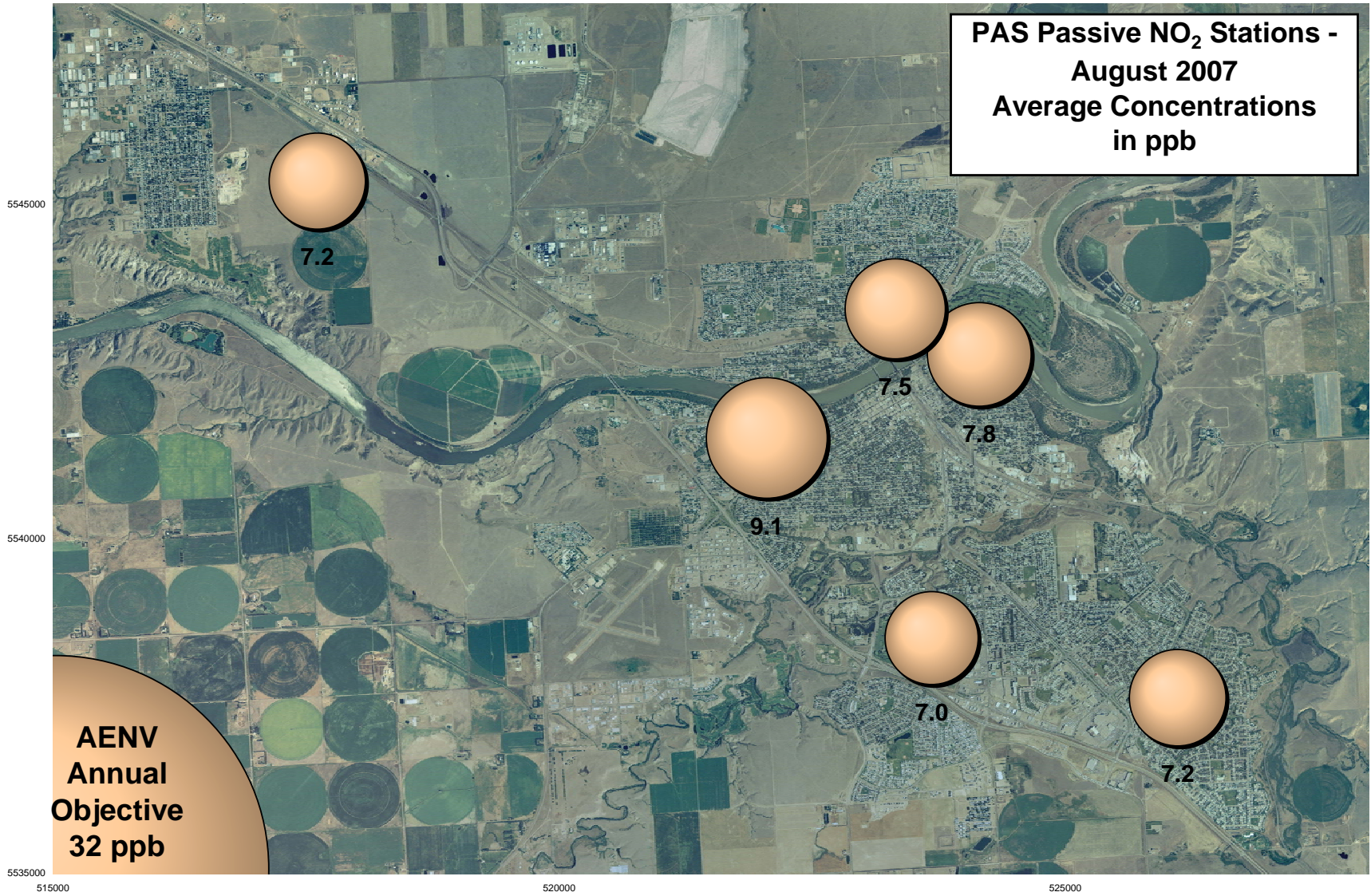


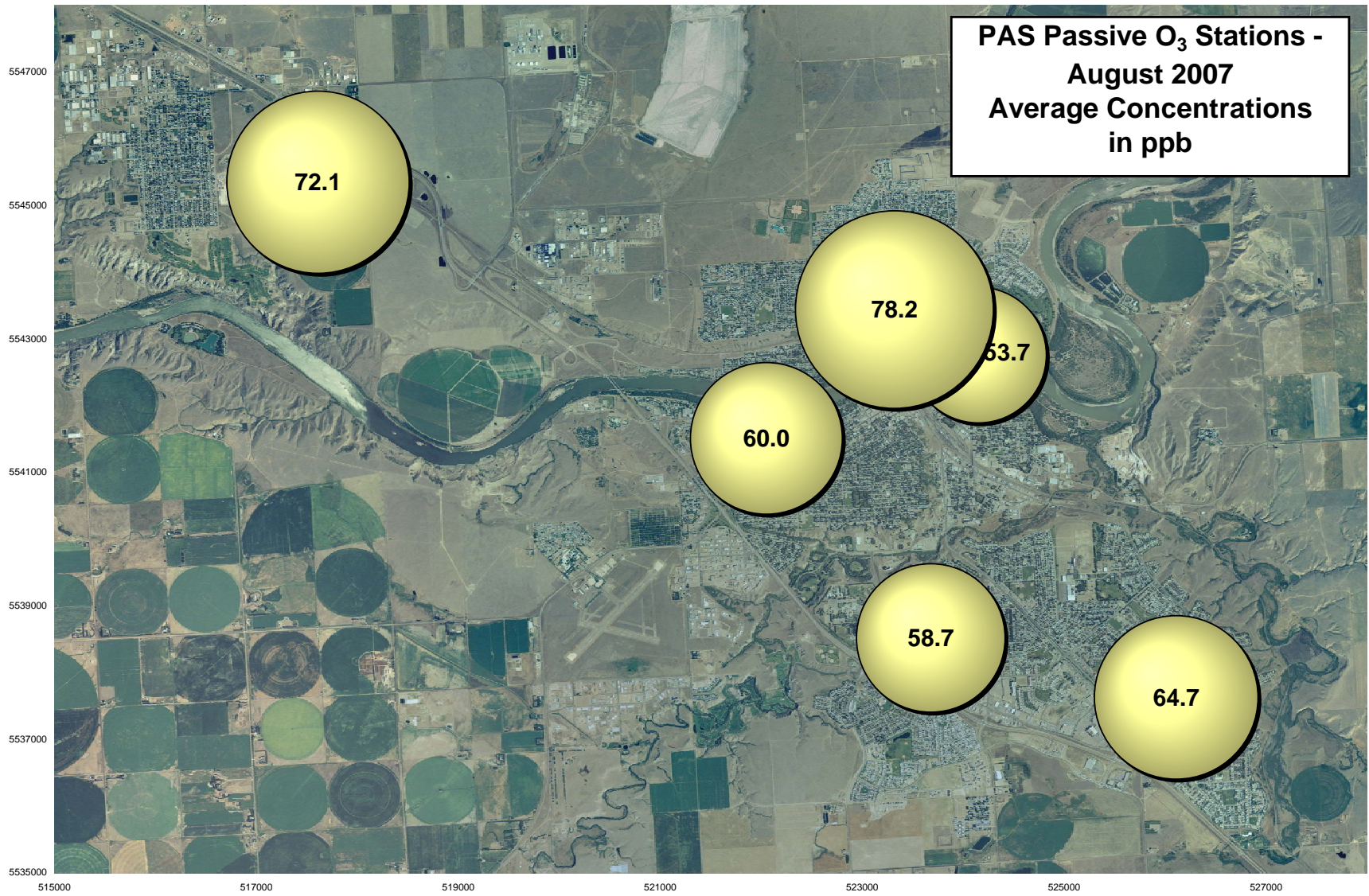
Passive Monitoring – August 2007

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation
Duplicates							
5a	Southridge	0.4	56.5	6.9			
5b	Southridge	0.4	60.9	7.0			
1	Hospital	0.4	60.0	9.1	521648	5542721	698
2	Ball Park	0.4	53.7	7.8	524019	5543686	660
3	Monitoring Station	0.7	78.2	7.5	522812	5544133	714
4	Redcliff	0.6	72.1	7.2	517448	5545608	725
5	Southridge	0.4	58.7	7.0	523172	5539016	721
6	Christian School Park	0.6	64.7	7.2	526577	5538133	709

Stats:							
Mean	0.5	64.6	7.6				
Standard Deviation	0.1	9.1	0.8				
Minimum	0.4			2	Ball Park		
Maximum	0.7			3	Monitoring Station		
Minimum		53.7		2	Ball Park		
Maximum		78.2		3	Monitoring Station		
Minimum			7.0	5	Southridge		
Maximum			9.1	1	Hospital		







Palliser Airshed Society August 2007 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC and CO

Calibration Report



Parameter **03**
Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	August 2, 2007	Previous Calibration	July 26, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	8:00	End Time (MST)	11:45
Barometric Pressure	27.6 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.954207	Calculated slope	0.897408
Calculated intercept	1.692650	Calculated intercept	1.028058
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	NA	ppb	-8.8	ppb
Slope	NA		1.045	
Lamp measure	4243.9	mV	4368.7	mV
Lamp Reference	4249.9	mV	4369.4	mV
Pressure	26.2	inches Hg	26.1	inches Hg
Sample Flow	675	ccm	676	ccm
Sample temp	38.5	Deg C	41.1	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.0	-3.9	N/A
4990	300.0	297.9	328.3	0.9075
4990	200.0	200.5	224.0	0.8949
4990	100.0	105.6	120.1	0.8795
4990	0.0	0.0	-3.9	0.0000
4990	300.0	297.9	339.3	0.8781
Average Correction Factor				0.8940

Calculated value of As Found Response: 329.2 ppm Percent Change of As Found: 10.5%

	before calibration		after calibration	
Auto zero	-3.4	ppb	-1.5	ppb
Auto span	370.3	ppb	339.5	ppb

Notes: Performed maintenance: Took apart the bench and re-inforced seals.

Calibration Performed By: Travis Mehrer, Lenin Flores

Calibration Summary

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

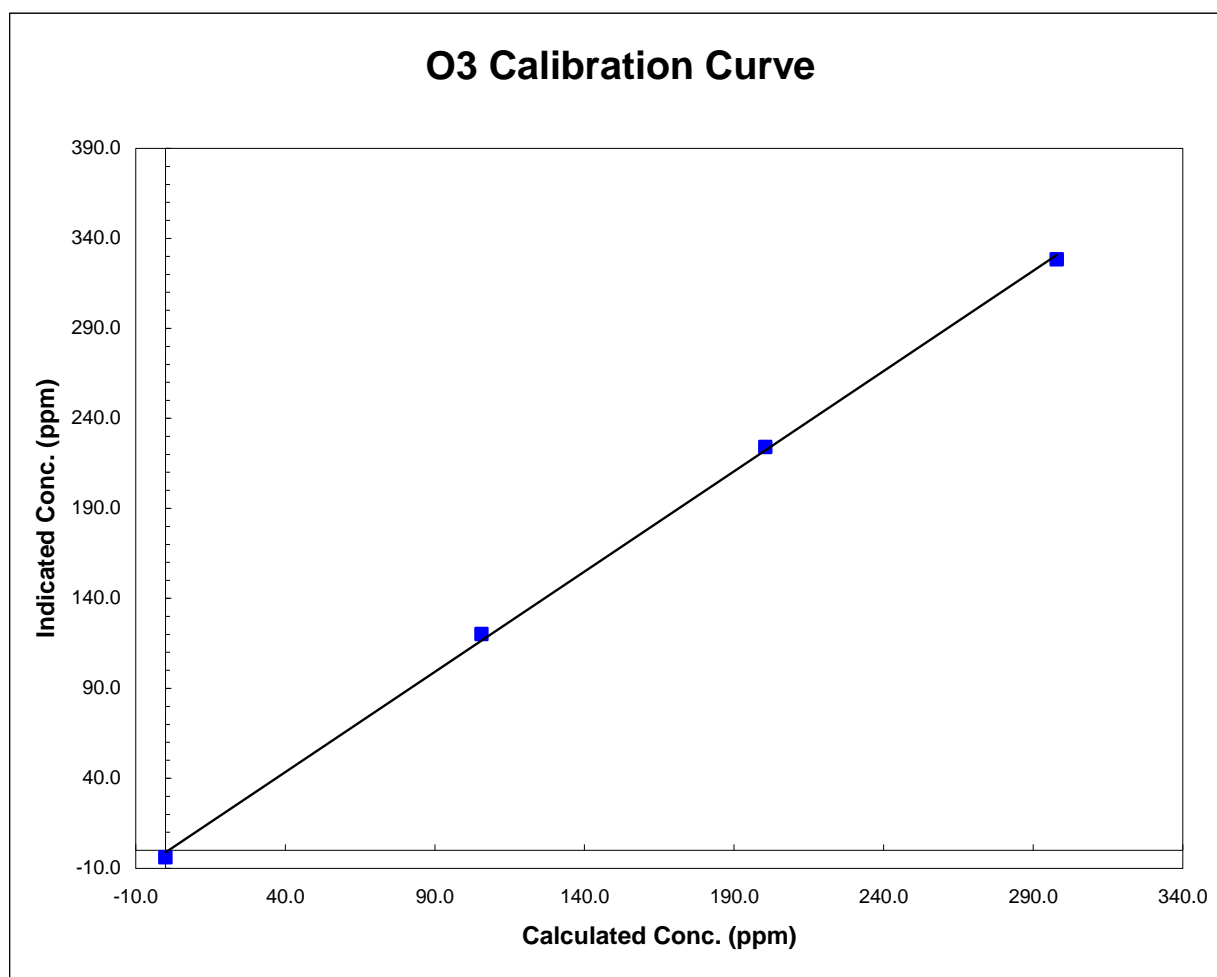


Station Information

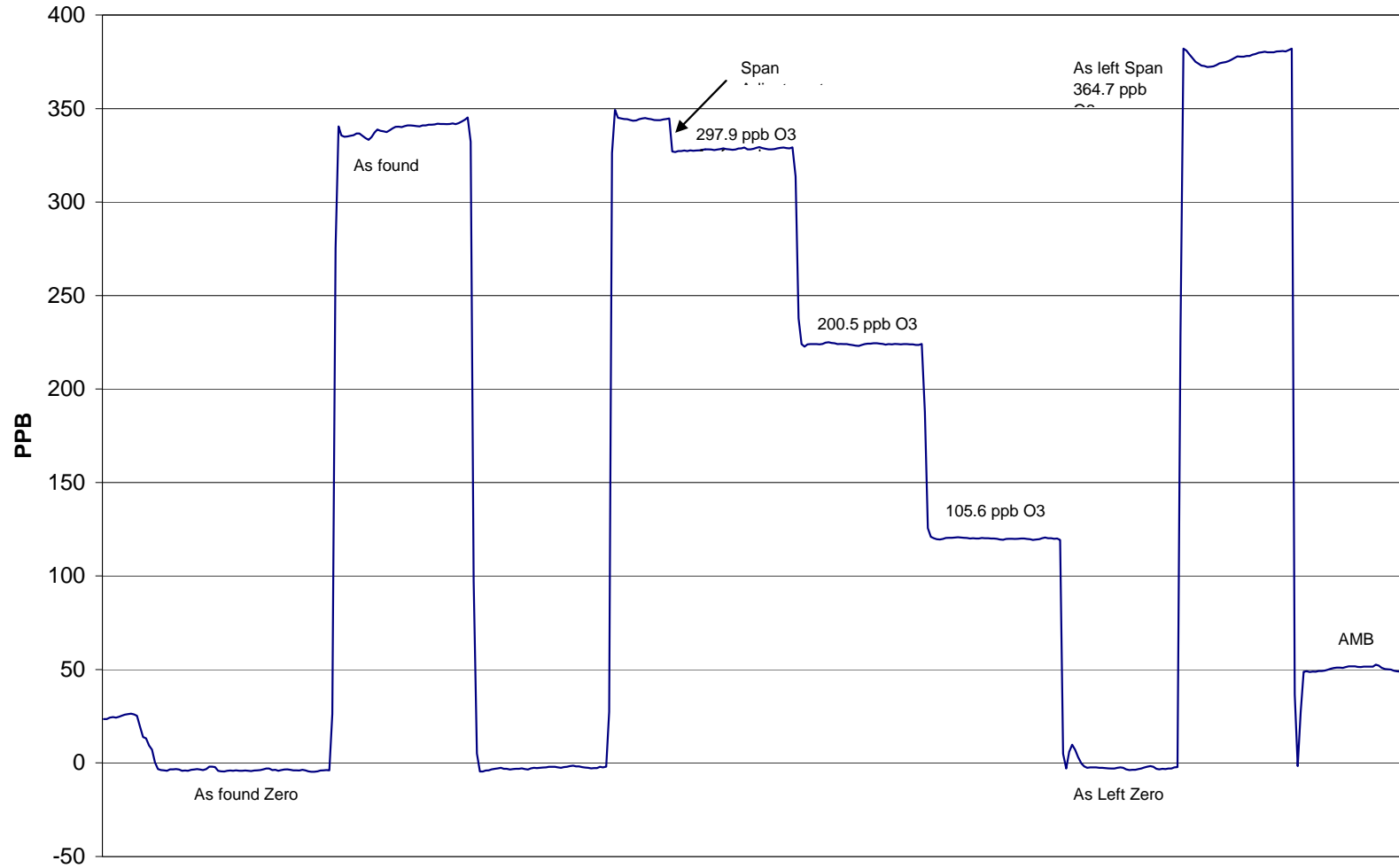
Calibration Date	August 2, 2007	Previous Calibration	July 26, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	8:00	End Time (MST)	11:45
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
297.9	328.3	0.9075		
200.5	224.0	0.8949	Correlation Coefficient	0.999509
105.6	120.1	0.8795		
0.0	-3.9	N/A	Slope	0.897408
			Intercept	1.028058



Crescent Heights - O3 Calibration



August 2, 2007

Calibration Report

Parameter
Air Monitoring Network

NOx-NO-NO₂
Palliser Airshed



Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 25, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	7:00	End Time (MST)	15:30
Barometric Pressure	27.7 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	5-Dec-07
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-50114

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270
Parameter	NO2	NOx	NO
Before	Data Slope	0.922388	0.929471
	Data Offset	-1.552901	0.406096
After	Data Slope	1.003798	1.005000
	Data Offset	1.206882	1.678703
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	NA	mV	2.1	mV
NOx background	NA	mV	3.5	mV
NO coefficient	NA		2.211	
NOx coefficient	NA		2.217	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.0	Deg C	7.1	Deg C
Azero	43.0		39.8	
Perm Temp	40.2	Deg C	40.2	Deg C
Pressure	4.8	inches Hg	3.8	inches Hg
Sample Flow	457.0	ccm	459.0	ccm

Notes: Zero and span adjustments made.
 First span was terrible. Put analyzer into internal zero, and span gas at 100 for 20 minutes.
 After that, span looked very nice, captured 10 minutes.

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date: August 1, 2007

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	4991	0.00	0.0	0.0	0.0	-1.6	-2.0	-1.3	N/A	N/A
1	4991	39.85	387.4	387.4	0.0	383.6	383.8	-1.5	1.0098	1.0093
2	4991	19.92	194.4	194.4	0.0	192.3	191.0	-0.9	1.0107	1.0174
3	4991	9.94	97.2	97.2	0.0	94.6	93.3	-0.4	1.0280	1.0425
AFZ	4991	0.00	0.0	0.0	0.0	-2.1	-0.3	-3.4	0.0000	0.0000
AFS	4991	39.84	387.3	387.3	0.0	372.8	369.7	1.7	1.0388	1.0474
								Average Correction Factor	1.0162	1.0231

As Found Concentrations

NO_x= 375.2

NO= 371.0

As Found Percent Change

NO_x= -3.1%

NO= -4.2%

GPT Calibration Data

Dilution Flow 4991 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	384.9	380.0	4.9	381.3	376.1	-1.3	N/A	N/A	N/A	N/A	
300	382.5	260.6	122.0	379.0	257.1	120.4	1.0094	1.0135	1.0132	98.7%	
200	379.3	153.3	225.9	375.7	150.2	224.0	1.0095	1.0211	1.0087	99.1%	
100	379.9	49.3	330.6	376.4	46.4	328.0	1.0095	1.0619	1.0078	99.2%	
							Average Correction Factor	1.0095	1.0322	1.0099	99.0%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.2	-2.4	-0.6	ppb	3.0	0.8	2.8	ppb
Auto span	432.3	418.3	8.2	ppb	448.4	436.2	12.8	ppb

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **Palliser Airshed**

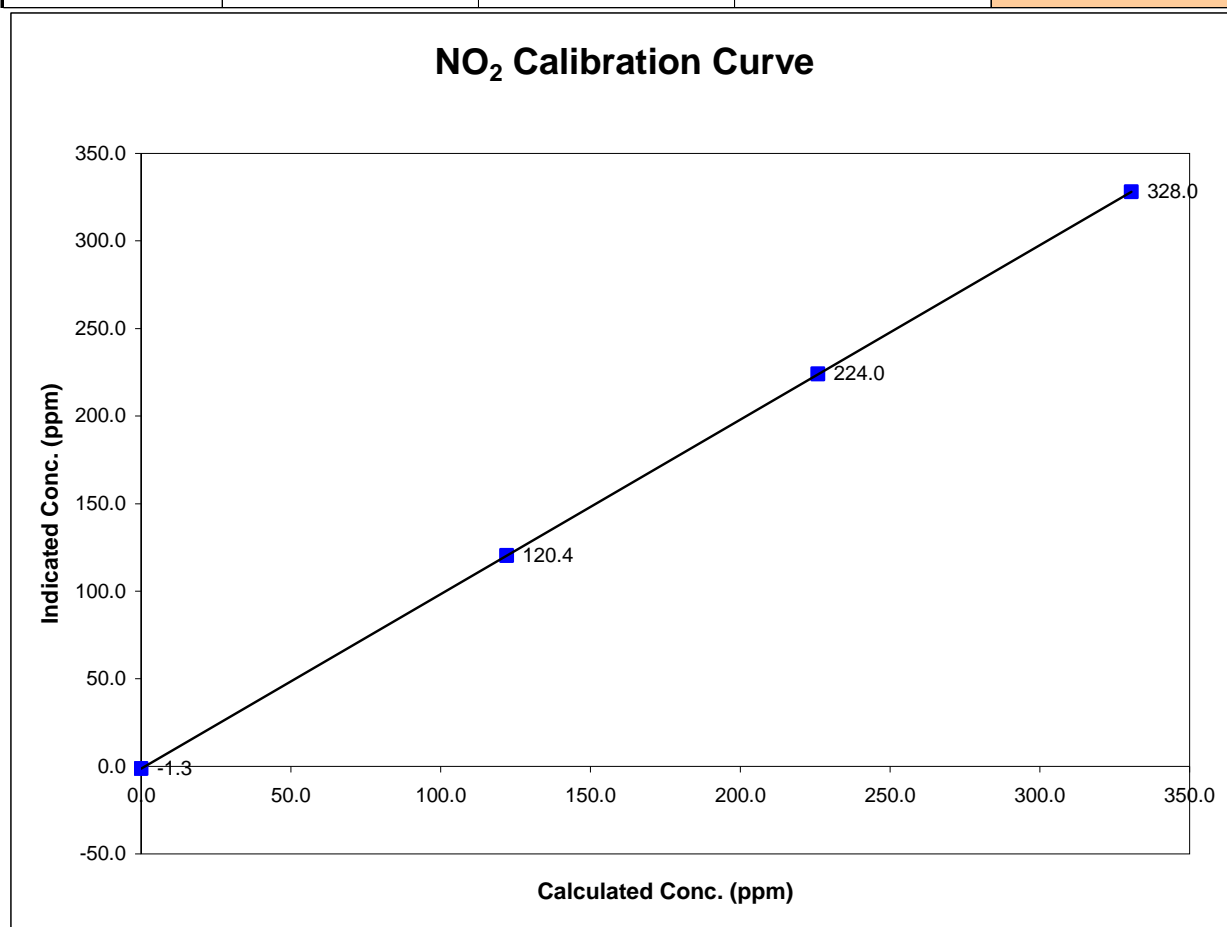


Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 25, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:00	End Time (MST)	15:30
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.3	0.0000	Correlation Coefficient	0.999999
122.0	120.4	1.0132		
225.9	224.0	1.0087		
330.6	328.0	1.0078		
			Slope	1.003798
			Intercept	1.206882



Calibration Summary

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



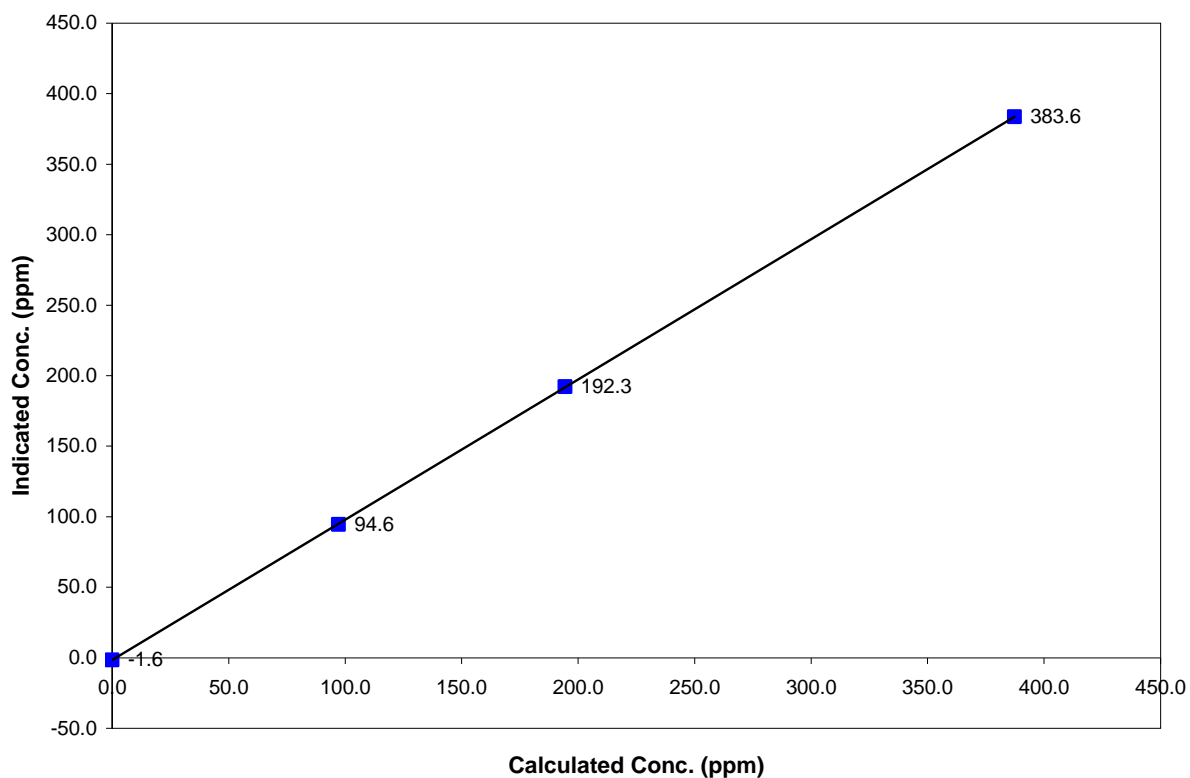
Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 25, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:00	End Time (MST)	15:30
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.6	0.0000	Correlation Coefficient	0.999992
387.4	383.6	1.0098		
194.4	192.3	1.0107		
97.2	94.6	1.0280		
			Slope	1.005000
			Intercept	1.678703

NO_x Calibration Curve



Calibration Summary

Parameter **NO**
 Air Monitoring Network **Palliser Airshed**

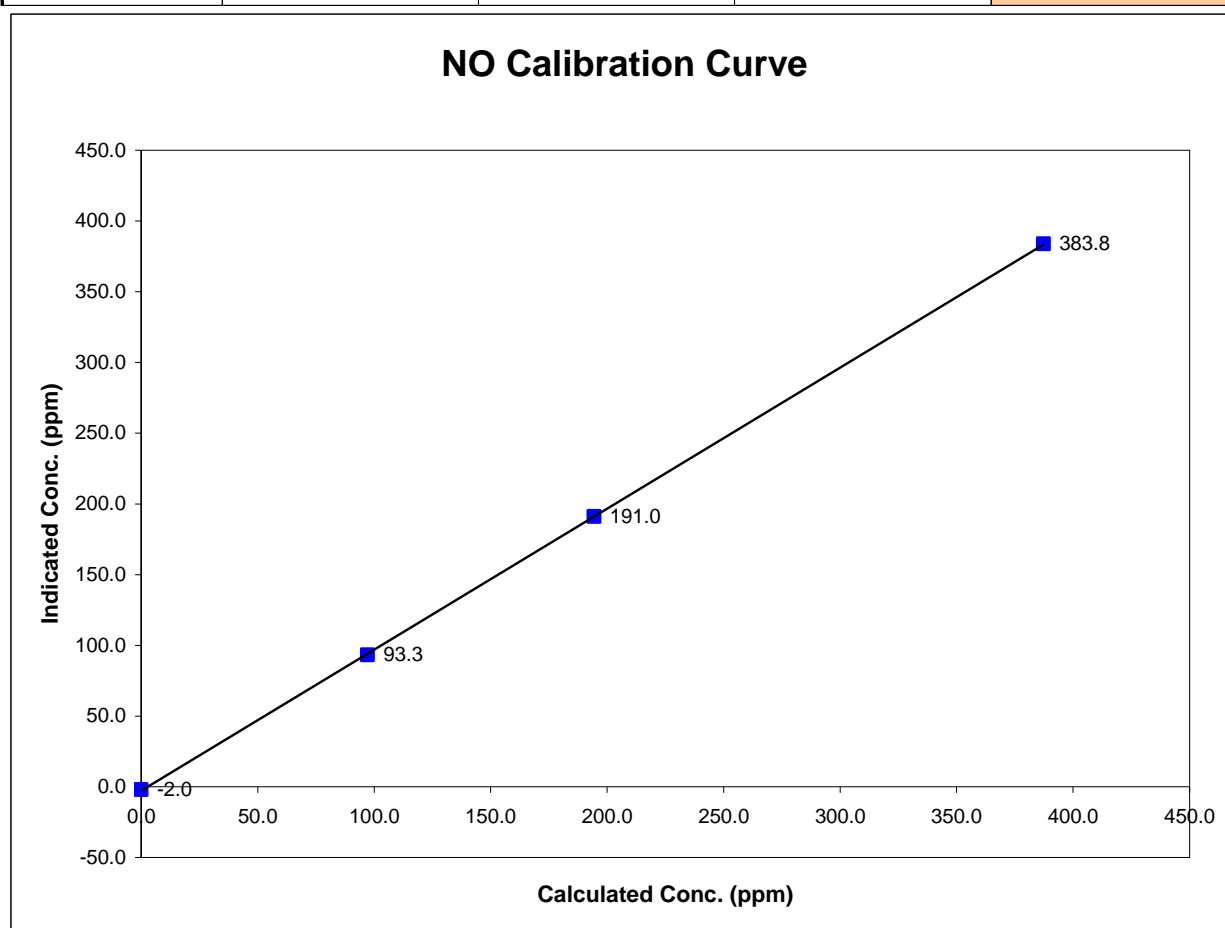


Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 25, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:00	End Time (MST)	15:30
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.0	N/A		
387.4	383.8	1.0093	Correlation Coefficient	0.999981
194.4	191.0	1.0174		
97.2	93.3	1.0425	Slope	1.002843
			Intercept	2.742421



Calibration Report

Parameter **THC**
Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date	August 2, 2007	Previous Calibration	July 26, 2007
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)	10:00	End Time (MST)	13:15
Barometric Pressure	27.3 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Envionics 6100	Serial Number	3747
Cal Gas Concentration	708 ppm CH ₄ / 299 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH ₄ equiv	1530.25 ppm	Cal Gas Cylinder #	ALM-030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.995730	Calculated slope	1.002027
Calculated intercept	-0.052219	Calculated intercept	-0.093429
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.75	PSI
THC span counts	12605	raw	12605	raw
THC zero counts	1370	raw	1370	raw
V Bias	-326	Volts	-327	Volts

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	0.08	N/A
4991	79.78	24.07	24.14	0.9973
4991	39.87	12.13	12.14	0.9988
4991	9.94	3.04	3.17	0.9582
zero	0.00	0.00	0.08	As Found Zero
4991	79.77	24.07	24.14	As Found Span
Average Correction Factor				0.9847

Calculated value of As Found Response: 23.905 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	-0.09	ppm	-0.06	ppm
Auto span	18.53	ppm	18.57	ppm

Notes: _____

Calibration Performed By: Travis Mehrer, Lenin Flores

Calibration Summary

Parameter **THC**
 Air Monitoring Network **Palliser Airshed**

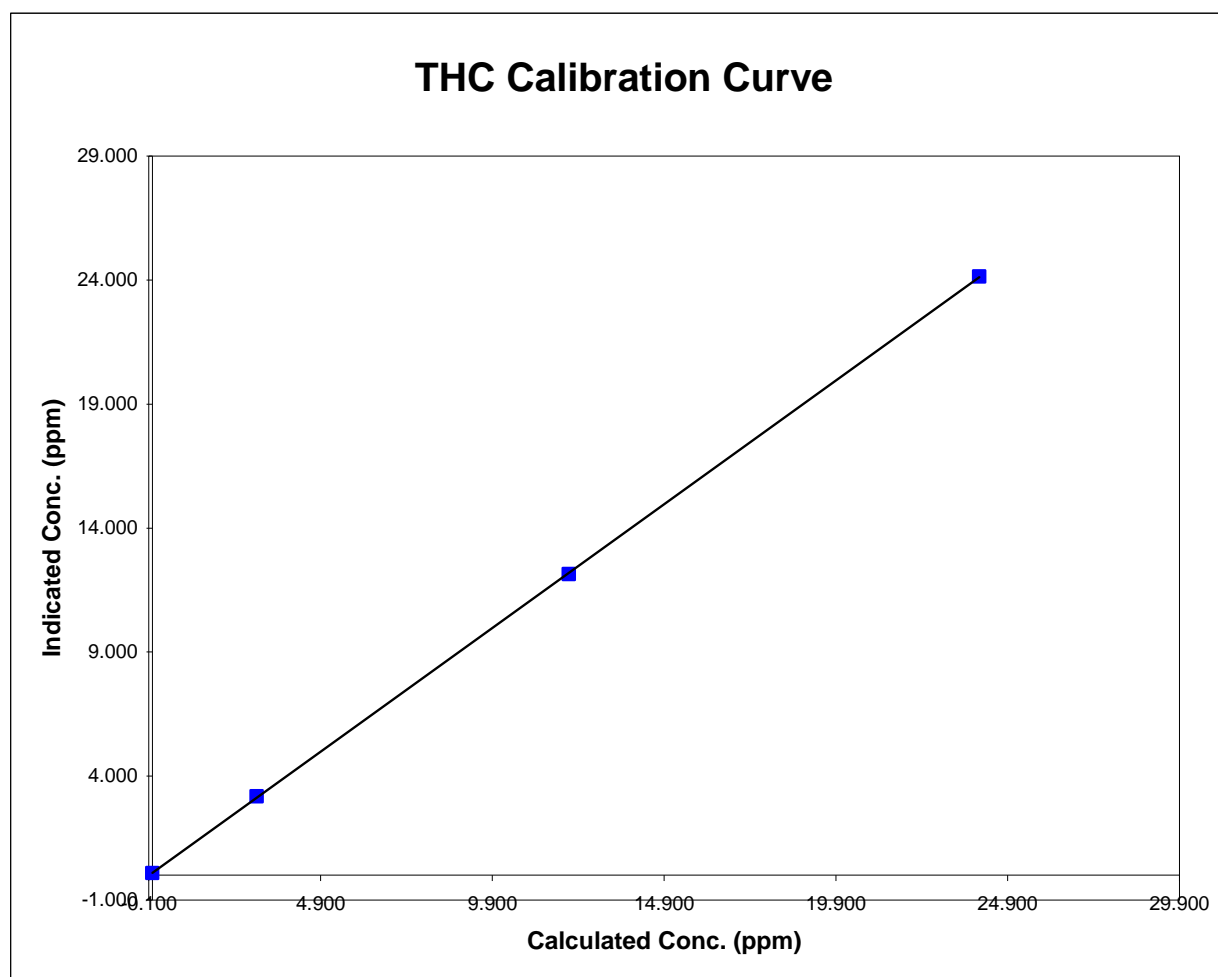


Station Information

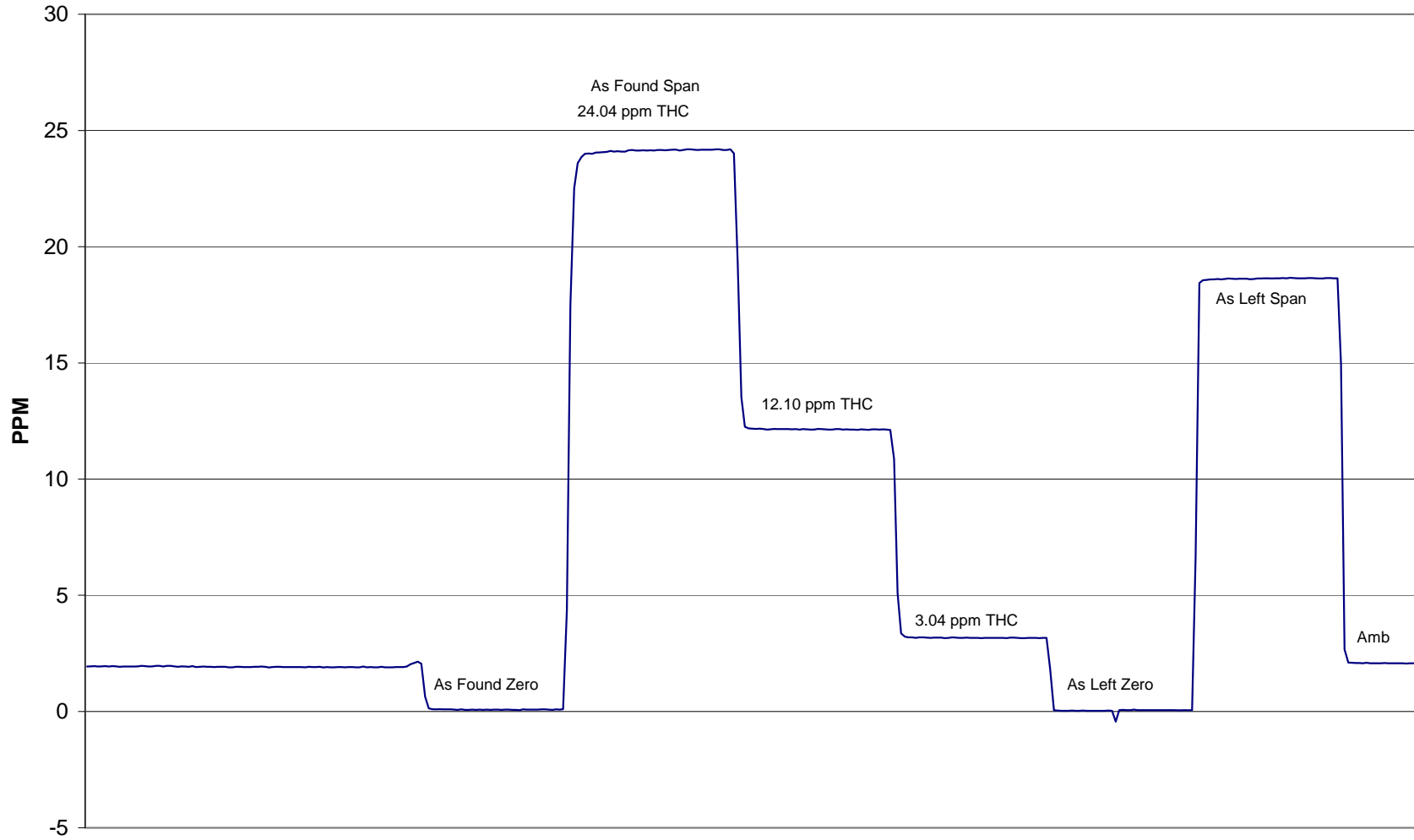
Calibration Date	August 2, 2007	Previous Calibration	July 26, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	13:15
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.080	N/A		
24.075	24.140	0.9973	Correlation Coefficient	0.999984
12.127	12.142	0.9988		
3.040	3.173	0.9582	Slope	1.002027
			Intercept	-0.093429



Crescent Heights - THC Calibration



August 2, 2007

Calibration Report



Parameter **CO**

Air Monitoring Network **Palliser**

Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 26, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:00	End Time (MST)	17:00
Barometric Pressure	27.58 in Hg	Station Temperature	22.0 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
	Before		After
Calculated slope	1.009652	Calculated slope	1.005319
Calculated intercept	-0.098717	Calculated intercept	-0.219587
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.080		1.080	
CO bkg setting	1.197		1.204	
Lamp ratio	1.142311		1.142139	
Lamp intensity	199466	Hz	199157	Hz
Sample Flow	1.017	LPM	1.011	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	0.12	N/A
4991	49.83	29.64	29.67	0.9989
4991	19.92	11.92	12.09	0.9854
4991	9.94	5.96	6.25	0.9537
4991	0.00	0.00	0.12	0.0000
4991	49.87	29.66	29.67	0.9996
Average Correction Factor				0.9793

Calculated value of As Found Response: 29.731 ppm Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	-0.07	ppm	0.06	ppm
Auto span	19.20	ppm	19.35	ppm

Notes: No adjustments made.

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

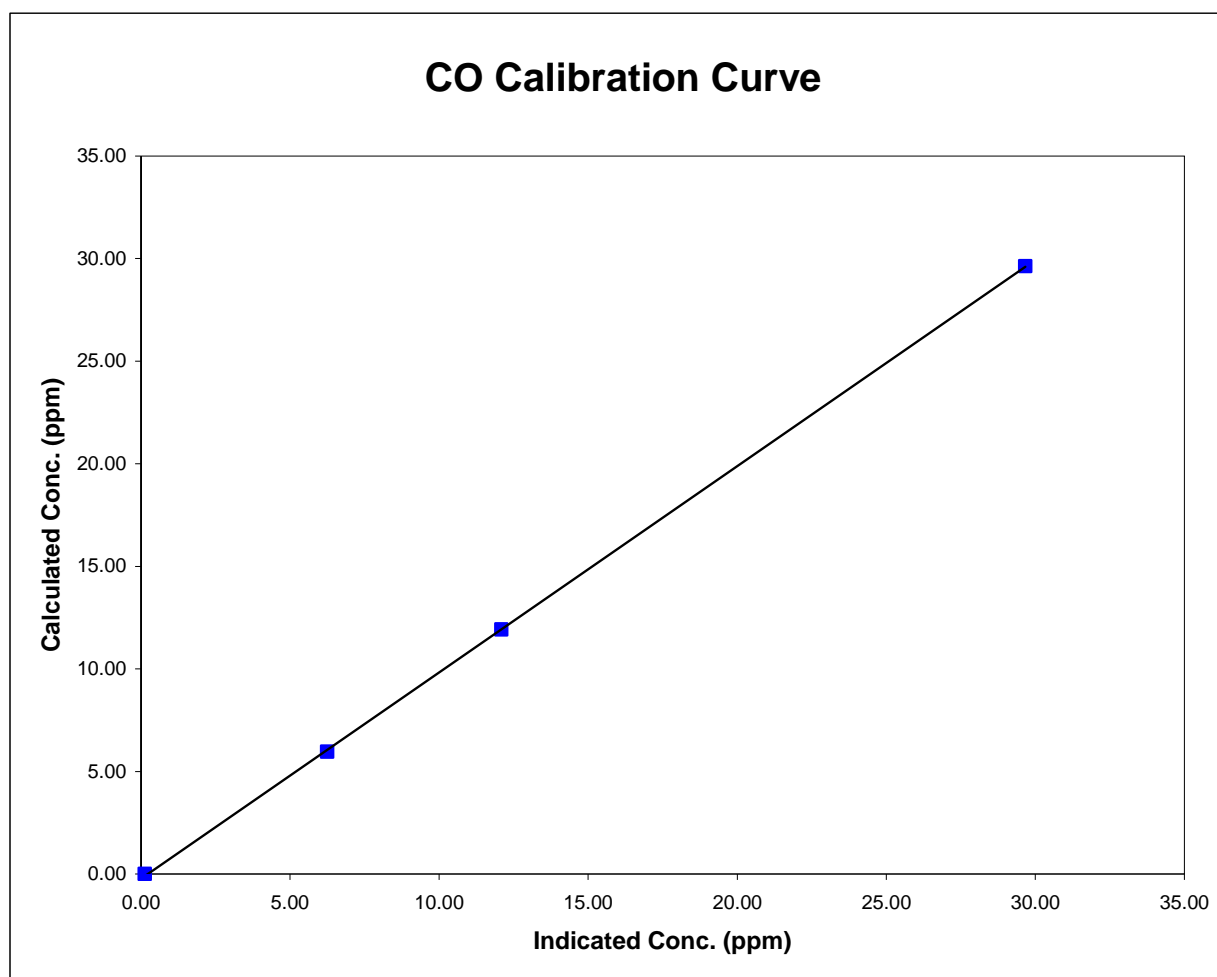


Station Information

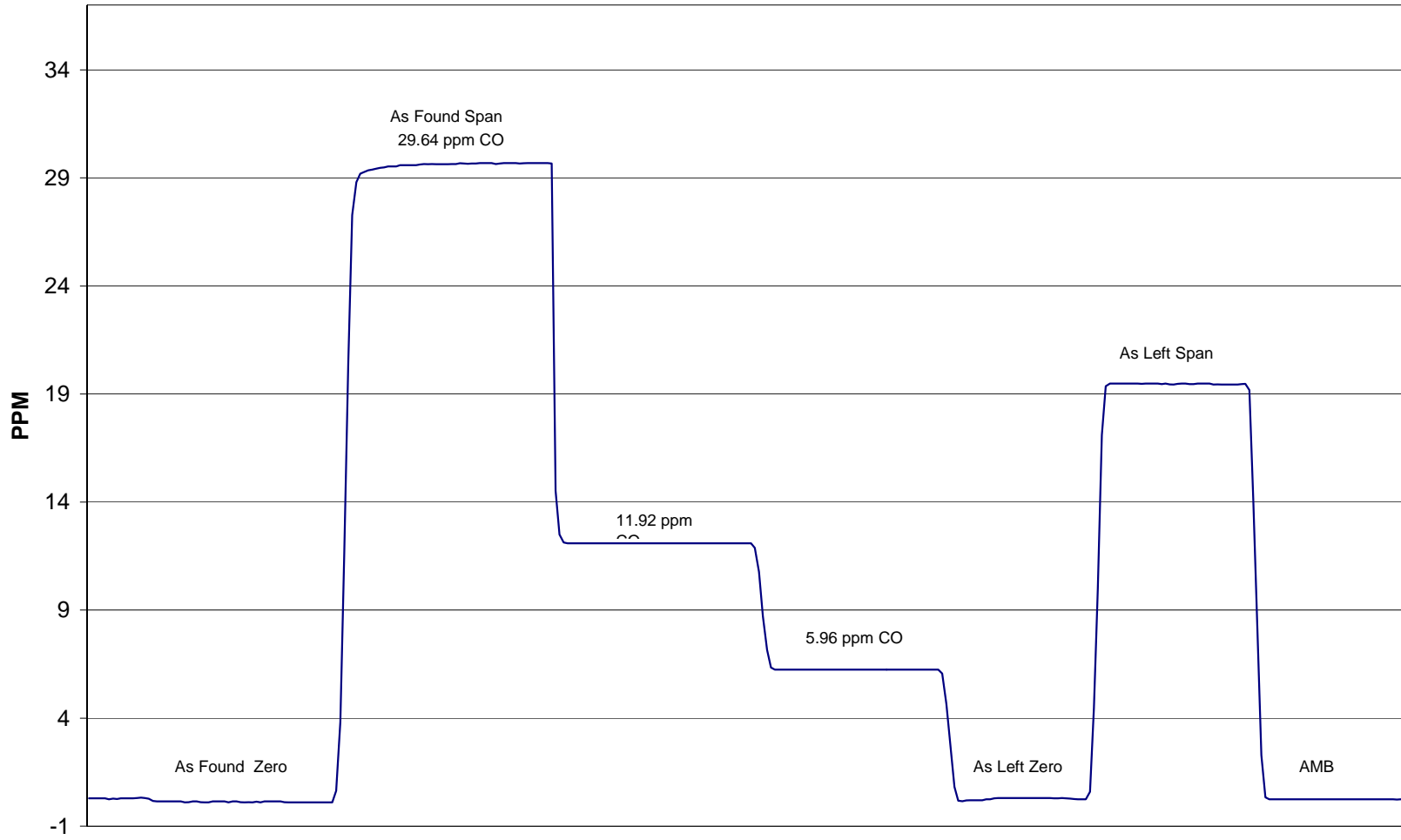
Calibration Date	August 1, 2007	Previous Calibration	July 26, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:00	End Time (MST)	17:00
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.12	N/A		
29.64	29.67	0.9989	Correlation Coefficient	0.999958
11.92	12.09	0.9854		
5.96	6.25	0.9537	Slope	1.005319
			Intercept	-0.219587



Crescent Heights - CO Calibration



August 1, 2007