



Air Quality Monitoring Network for September 2007

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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P.O. Box 21135
Grande Prairie, AB
T8V 6W7
Phone: (780) 539-2298

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

RE: Peace Airshed Zone Association (PASZA) – September 2007 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **September 2007**.

Continuous Monitoring: Six (6) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights, Beaverlodge, Spirit River (portable) and Valleyview.

Included in this report is a summary of the monthly continuous monitoring, detailed hourly average reports and multipoint calibration reports of all instruments. Operational summaries can be found on the "Monthly Summary" and "Continuous Monitoring" pages of the report.

The measured ambient air quality was within the Provincial and Federal objectives for the Henry Pirker, Evergreen Park, Smoky Heights, Beaverlodge, Spirit River and Valleyview stations.

During the month of September the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ On September 13th and 14th there were no spans on the THC analyzer, nine (9) hours were flagged for maintenance on the THC analyzer for a pump rebuild on September 14th.
- ◆ The CO analyzer had a number of days where the analyzer did not span due to regulator pressure issues, currently looking into a new design for the span system to alleviate this problem.
- ◆ The AQI for the month resulted in 673 hours of Good readings and 6 hours of Fair readings.

Evergreen Park Station:

- ◆ The TRS spans increased greater than 10% on September 20th and 21st, reason unknown.
- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.

Smoky Heights Station:

- ◆ Power bumps resulted in a total of (3) hours of invalid data for the PM_{2.5} analyzer.
- ◆ There were seventeen (17) hours attributed to excessive baseline drift between September 5th and 6th due to the filter not seated properly in the TEOM, problem was corrected on September 6th.
- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 677 hours of Good readings and 6 hours of Fair readings.

Portable – Spirit River Station:

- ◆ The portable station was moved to the Spirit River site on August 31st, it was powered up on September 19th and start – up calibrations occurred on September 20th.
- ◆ The relative humidity and temperature sensors are at the factory for repairs – Alberta Environment reference # 192650.
- ◆ Operational uptime for all analyzers was based on the start-up date and time of the each analyzer on September 20th, resulting in greater than 90% operational uptime for the remainder of the month.

Valleyview Station:

- ◆ All analyzers / sensors at the Valleyview station had an operational uptime of 100%.

Passive Monitoring: 54 Stations throughout the PASZA zone:

Field notes during collection noted that: the SO₂ sample from the Cadotte Lake School site was missing. There were six duplicate sites sampled in the month of September: Wapiti, Crooked Creek, Kinuso, Deer Mountain, Clear River and Grande Prairie HP. The passive sample analyses were performed by MAXXAM Analytics Inc.

A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from 0.0 ppb to 0.6 ppb, with a mean of 0.2 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.0 ppb to 5.1 ppb, with a mean of 1.0 ppb.
- Monthly average concentrations for O₃ passives ranged from 13.2 ppb to 25.6 ppb, with a mean of 20.0 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 (Kelly Baragar or Sharon Whiteley).

On Behalf of the,
Peace Airshed Zone Association



Michael Bisaga
PASZA Program Manager



Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Sep-2007 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.1	0	0	3.2	Sep-21 08:00	8.2	SE	0.5	Sep-02	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.5	0	0	7.6	Sep-17 08:00	15.5	W	2.2	Sep-25	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.3	0	0	6.9	Sep-01 07:00	14.5	WSW	1.0	Sep-06	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.2	0	0	3.4	Sep-14 19:00	3.5	NE	0.5	Sep-14	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.3	0	0	1.8	Sep-21 09:00	11.7	S	0.5	Sep-27	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.54	0	0	22.46	Sep-16 21:00	13.1	WNW	3.42	Sep-16	100.0%
NO (ppb)			Henry Pirker	2.8	-	-	65.1	Sep-14 21:00	4.7	ESE	16.0	Sep-14	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	6.4	0	0	33.1	Sep-14 19:00	5.3	S	14.1	Sep-14	100.0%
NO _x (ppb)			Henry Pirker	9.2	-	-	91.6	Sep-14 21:00	4.7	ESE	30.1	Sep-14	100.0%
NO (ppb)			Beaverlodge	0.2	-	-	5.9	Sep-16 09:00	9.5	W	0.9	Sep-08	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	2.2	0	0	12.6	Sep-13 19:00	3.6	ESE	3.4	Sep-14	100.0%
NO _x (ppb)			Beaverlodge	2.4	-	-	12.9	Sep-13 19:00	3.6	ESE	3.8	Sep-14	100.0%
NO (ppb)			Portable-Spirit River	0.5	-	-	4.5	Sep-30 10:00	5.8	ESE	1.5	Sep-30	100.0%
NO ₂ (ppb)	212	106	Portable-Spirit River	1.5	0	0	5.8	Sep-30 23:00	1.3	SE	2.9	Sep-30	100.0%
NO _x (ppb)			Portable-Spirit River	2.0	-	-	9.0	Sep-30 10:00	5.8	ESE	4.4	Sep-30	100.0%
O ₃ (ppb)	82		Henry Pirker	22.0	0	-	57.9	Sep-15 14:00	27.1	W	32.0	Sep-26	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					48.7	Sep-15	
O ₃ (ppb)	82		Beaverlodge	24.7	0	-	61.3	Sep-15 13:00	25.2	WNW	41.2	Sep-15	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					55.3	Sep-15	
O ₃ (ppb)	82		Portable-Spirit River	21.1	0	-	37.3	Sep-21 14:00	22.7	WSW	31.2	Sep-26	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					34.8	Sep-26	
CO (ppm)	13		Henry Pirker	0.11	0	-	1.2	Sep-14 21:00	4.7	ESE	0.3	Sep-14	100.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.6	Sep-15	
THC (ppm)			Henry Pirker	1.96	-	-	3.3	Sep-14 21:00	4.7	ESE	2.4	Sep-13	98.8%
TRS (ppb)			Henry Pirker	0.3	-	-	1.4	Sep-30 03:00	6.4	ESE	0.5	Sep-14	100.0%
TRS (ppb)			Evergreen Park	0.4	-	-	2.1	Sep-22 07:00	8.0	W	0.8	Sep-27	100.0%
TRS (ppb)			Smoky Heights	0.3	-	-	0.7	Sep-01 01:00	11.9	WSW	0.5	Sep-03	100.0%
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.4	Sep-22 22:00	1.6	SSE	0.6	Sep-22	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.0	0	0	3.8	Sep-18 22:00	1.6	W	0.3	Sep-18	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	2.2	0	0	38.9	Sep-14 20:00	4.9	ENE	10.2	Sep-14	99.4%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	3.4	0	0	48.7	Sep-04 10:00	18.4	W	8.3	Sep-25	99.3%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	2.2	0	0	32.8	Sep-14 17:00	9.1	W	6.3	Sep-14	97.2%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	1.4	0	0	15.4	Sep-26 10:00	25.5	WNW	3.9	Sep-14	99.7%

PASZA Monthly Continuous Data Summary - continued

Sep-2007		Peace Airshed Zone Association				Maximum Recorded Values							
						1-hr				24-hr / 8-hr			
RH (%)		Henry Pirker	67.2	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Beaverlodge	65.3	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Spirit River	-	-	-	-	-	-	-	-	-	-	-
RH (%)		Valleyview	70.7	-	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)		Henry Pirker	123.7	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Henry Pirker	10.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Evergreen Park	9.7	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	9.2	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Beaverlodge	9.8	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Spirit River	-	-	-	-	-	-	-	-	-	-	-
Temp (°C)		Valleyview	9.2	-	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)		Henry Pirker	11.5	-	-	31.3	Sep-25 00:00	31.3	WSW	21.1	Sep-26	100.0%	
WSPD v (km/hr)		Evergreen Park	7.9	-	-	27.8	Sep-17 11:00	27.8	W	17.2	Sep-25	100.0%	
WSPD v (km/hr)		Smoky Heights	2.4	-	-	11.5	Sep-02 16:00	11.5	WNW	22.1	Sep-25	100.0%	
WSPD v (km/hr)		Beaverlodge	8.5	-	-	31.5	Sep-17 12:00	31.5	W	20.4	Sep-25	100.0%	
WSPD v (km/hr)		Portable-Spirit River	9.3	-	-	26.8	Sep-24 10:00	26.8	SW	18.3	Sep-24	100.0%	
WSPD v (km/hr)		Valleyview	5.6	-	-	21.3	Sep-26 10:00	21.3	NW	11.0	Sep-26	100.0%	
WSPD s (km/hr)		Henry Pirker	12.2	-	-	31.4	Sep-25 00:00	31.4	WSW	22.5	Sep-26	100.0%	
WSPD s (km/hr)		Evergreen Park	8.6	-	-	28.0	Sep-17 11:00	28.0	W	17.4	Sep-25	100.0%	
WSPD s (km/hr)		Smoky Heights	12.7	-	-	40.2	Sep-21 15:00	40.2	WSW	22.5	Sep-25	100.0%	
WSPD s (km/hr)		Beaverlodge	8.9	-	-	31.7	Sep-17 12:00	31.7	W	20.7	Sep-25	100.0%	
WSPD s (km/hr)		Portable-Spirit River	9.6	-	-	26.8	Sep-24 10:00	26.8	SW	18.5	Sep-24	100.0%	
WSPD s (km/hr)		Valleyview	6.0	-	-	21.7	Sep-26 10:00	21.7	NW	12.1	Sep-26	100.0%	
WDIR		Henry Pirker	WSW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%	
WDIR		Smoky Heights	S	-	-	-	-	-	-	-	-	100.0%	
WDIR		Beaverlodge	W	-	-	-	-	-	-	-	-	100.0%	
WDIR		Portable-Spirit River	WSW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Valleyview	WNW	-	-	-	-	-	-	-	-	100.0%	

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

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on September 10th (SO₂), September 12th (TRS), September 13th (CO, NO_x and O₃) and September 17th (THC, CO and TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
CO	TEI	48C	No spans for several days during September due to regulator pressure issues. A second calibration was done using correct zero air supply.
THC	TEI	51-CLT	No span on September 13 th & 14 th , the pump was rebuilt on September 14 th (nine (9) hours flagged for maintenance).
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Four (4) hours were removed due to excessive baseline drift.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on September 4th (SO₂, TRS and TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	Span increase on TRS analyzer on September 20 th & 21 st , reason unknown.
PM _{2.5}	R&P	1400AB	Five (5) hours were removed due to excessive baseline drift.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on September 5th (TRS, SO₂ and TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Seventeen (17) hours were flagged excessive baseline drift due to a filter not seated properly. The TEOM had a total of three (3) hours of invalid data due to power bumps.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on September 27th (NO_x and SO₂) and October 1st (O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Two (2) hours were removed due to excessive baseline drift.
AT	n/a	n/a	No operational issues observed.
RH	n/a	n/a	No operational issues observed.
WS	Blue Sky	857	No operational issues observed.
WD	Blue Sky	857	No operational issues observed.

PASZA – Spirit River (Portable) Station

General Station Issues

The station was moved to the Spirit River Site on August 31st. The station was powered up on September 19th and start-up calibrations were performed on September 20th (NO_x, SO₂, TRS and O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
AT	Gill	Met Pak 3	The temperature & relative humidity sensors failed on August 25 th and were sent back to the factory to be repaired – Alberta Environment reference # 192650.
RH	Gill	Met Pak 3	The temperature & relative humidity sensors failed on August 25 th and were sent back to the factory to be repaired – Alberta Environment reference # 192650.
WS	Gill	Met Pak 3	No operational issues observed.
WD	Gill	Met Pak 3	No operational issues observed.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on September 11th (SO₂ and H₂S).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
H ₂ S	TEI	43A	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Gill	Met Pak 3	No operational issues observed.
WD	Gill	Met Pak 3	No operational issues observed.

PASZA – Henry Pirker Station

Monthly Summary Tables, Graphs and Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: September 1, 2007 to October 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:	673
Number of 1-hr Fair Readings:	6
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Sep-07	8	8	8	7	6	5	6	8	9	12	14	15	15	15	16	15	15	13	N	7	7	11	5	
2-Sep-07	4	4	3	4	3	3	3	3	5	10	12	14	17	18	20	20	17	19	N	13	9	12	10	10
3-Sep-07	13	14	16	12	7	6	6	5	5	9	12	15	17	20	22	21	22	N	17	14	11	13	13	17
4-Sep-07	17	13	12	10	8	7	5	5	7	13	16	16	16	18	17	17	N	16	15	14	14	13	13	12
5-Sep-07	11	10	11	10	12	7	5	6	8	11	13	12	14	15	16	N	15	15	14	11	15	16	18	19
6-Sep-07	18	17	16	14	14	11	7	8	10	12	16	17	17	17	N	17	15	13	10	11	12	11	10	10
7-Sep-07	10	10	10	9	9	5	4	5	7	11	12	14	15	N	15	15	16	13	11	11	9	10	13	11
8-Sep-07	12	11	11	8	6	4	3	3	4	5	6	11	N	14	15	16	16	16	15	12	9	11	5	6
9-Sep-07	8	8	8	6	5	4	3	5	8	10	12	N	14	14	14	14	14	12	11	10	10	10	10	10
10-Sep-07	9	8	7	7	3	3	3	5	5	7	N	12	14	15	15	15	15	12	9	6	8	9	10	10
11-Sep-07	9	11	11	9	6	N	5	9	8	9	13	12	12	9	9	9	9	N	8	8	9	9	9	9
12-Sep-07	8	9	10	9	N	5	3	6	12	13	13	14	14	14	13	15	15	17	15	8	6	7	9	9
13-Sep-07	8	6	3	3	2	N	2	2	11	7	7	N	4	4	N	16	17	16	14	10	12	14	10	9
14-Sep-07	8	5	3	3	3	N	5	10	10	9	15	17	18	20	21	21	20	19	15	18	29	28	16	15
15-Sep-07	8	4	6	4	4	N	3	4	6	8	12	15	23	29	32	29	26	22	20	20	21	22	21	20
16-Sep-07	19	18	17	18	N	12	11	10	15	17	16	16	16	16	15	N	16	17	17	17	17	16	15	14
17-Sep-07	13	12	12	N	10	8	8	9	12	15	17	N	N	N	N	15	14	14	13	13	13	11	12	12
18-Sep-07	12	12	13	13	11	N	7	7	8	9	N	11	N	11	12	12	13	12	12	11	11	12	13	15
19-Sep-07	15	12	11	10	N	4	3	4	5	8	10	11	11	12	14	15	15	13	11	10	12	14	13	13
20-Sep-07	12	11	12	N	13	12	12	10	10	13	14	16	17	16	16	15	12	11	12	9	8	8	6	7
21-Sep-07	6	6	N	6	5	3	3	3	3	4	8	11	13	16	18	19	18	17	17	16	15	13	13	13
22-Sep-07	12	N	11	10	9	8	8	6	8	11	11	10	8	8	9	10	9	8	7	7	7	6	5	4
23-Sep-07	N	8	8	8	8	7	7	7	7	9	10	11	12	14	13	13	12	12	9	5	4	5	5	N
24-Sep-07	4	4	2	2	2	2	3	5	4	6	7	9	12	12	10	10	11	12	13	12	13	13	N	12
25-Sep-07	12	13	14	14	13	13	12	11	12	14	15	16	16	16	17	17	17	17	16	13	12	N	17	19
26-Sep-07	19	19	19	19	18	17	16	16	17	17	18	19	19	18	19	18	18	18	16	13	N	6	6	6
27-Sep-07	6	7	8	10	10	7	8	9	10	12	10	12	14	15	14	17	18	18	19	N	18	15	17	14
28-Sep-07	14	16	15	15	14	13	12	11	12	14	16	15	13	13	12	12	13	12	N	8	7	9	9	9
29-Sep-07	10	9	9	8	5	3	3	6	7	9	10	11	11	13	14	15	15	N	12	7	6	11	11	7
30-Sep-07	7	7	7	8	7	4	5	6	4	5	7	10	15	17	17	16	N	13	7	8	10	11	10	10

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

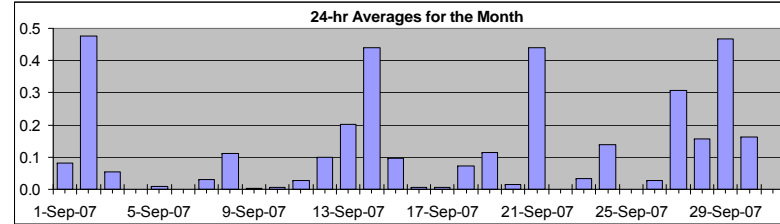
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

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

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb
 Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	3.2	ppb	21-Sep	8:00 9:00
Maximum 24-hr Average:	0.5	ppb	2-Sep	



AIC Time:	32 hrs		Operational Time:	686 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	0.6	0.1	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.3
2-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	A	2	2	1	0	0	0.5	2.4
3-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0.1	0.8
4-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.0
5-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.1
6-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.0
7-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.0	0.4
8-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
9-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
10-Sep-07	0	0	0	0	0	0	0	0	0	0	A	C	C	A	0	0	0	0	0	0	0	0	0	0	0.0	0.1
11-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
12-Sep-07	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
13-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.2	0.7
14-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	1	1	0.4	2.8
15-Sep-07	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
16-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
17-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
18-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
19-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
20-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
21-Sep-07	0	0	A	0	0	2	1	2	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.2
22-Sep-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
23-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.2
24-Sep-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.8
25-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.0
26-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.3
27-Sep-07	0	0	0	0	0	0	0	0	0	0	1	2	0	2	2	0	0	0	0	A	0	0	0	0	0.3	1.7
28-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	2	0.2	1.9
29-Sep-07	3	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0	0.5	2.7
30-Sep-07	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.8
Hourly Avg	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.2	0.2	0.1	0.2		
Hourly Max	2.7	1.3	2.4	0.6	0.1	1.5	0.8	1.9	3.2	1.2	1.0	1.5	0.7	1.9	2.4	0.8	0.8	0.2	0.2	2.1	2.7	2.8	0.8	1.9		

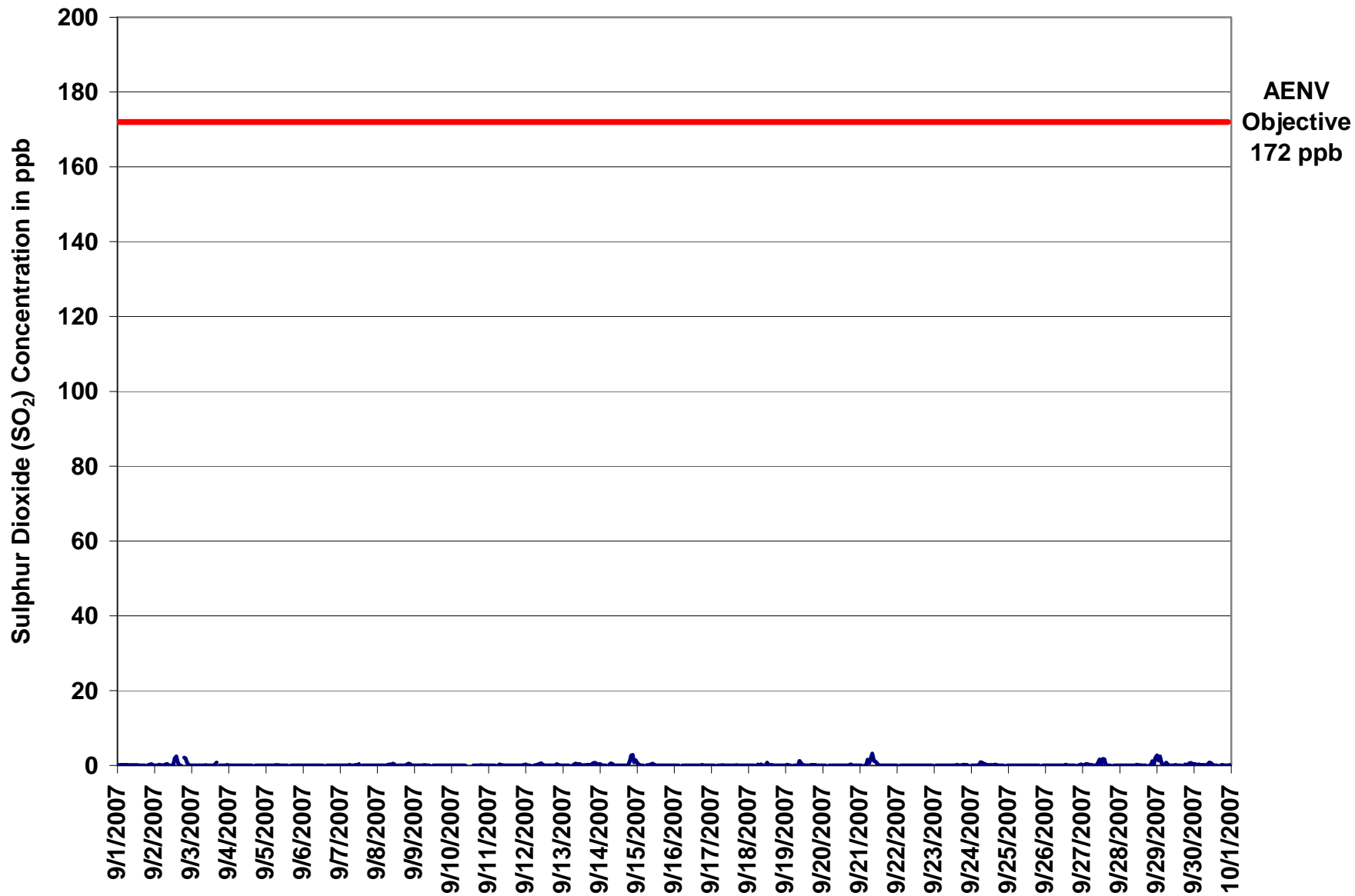


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

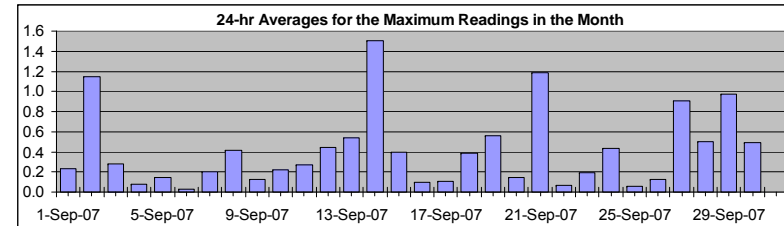
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	11.5	ppb	14-Sep	21:00 22:00
Maximum 24-hr Value:	1.5	ppb	14-Sep	



AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.1	1.5	0.5	0.2	0.0	0.0	0.0	0.4 ppb	0.2 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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0.2	1.0
2-Sep-07	0	0	0	1	1	0	1	1	1	0	0	0	1	4	4	2	0	0	A	5	3	2	1	0	1.1	4.6
3-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	1	0.3	1.2	
4-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0.1	1.0	
5-Sep-07	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	1.0	
6-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.3	
7-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0.2	0.9	
8-Sep-07	0	0	0	0	0	0	0	1	1	0	1	1	A	0	0	0	0	0	0	2	0	0	0	0.4	1.5	
9-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
10-Sep-07	0	0	0	0	0	0	0	0	0	0	A	C	C	A	0	0	0	0	1	0	0	0	0	0.2	1.4	
11-Sep-07	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.9	
12-Sep-07	1	0	1	0	A	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0.4	1.0	
13-Sep-07	0	0	0	0	0	A	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0.5	1.4	
14-Sep-07	1	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	4	6	12	2	3	1.5	11.5
15-Sep-07	2	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9	
16-Sep-07	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.1	0.5	
17-Sep-07	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	1.0	
18-Sep-07	0	0	0	0	0	A	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0.4	1.8	
19-Sep-07	0	1	0	0	A	0	0	0	0	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0.6	2.9	
20-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.1	0.7	
21-Sep-07	0	0	A	0	0	4	2	5	7	5	2	2	1	0	0	0	0	0	0	0	0	0	0	1.2	7.1	
22-Sep-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
23-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.5	
24-Sep-07	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0.4	1.9	
25-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5	
26-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0.1	1.0	
27-Sep-07	0	0	0	1	0	0	0	0	0	0	3	4	1	3	4	0	0	0	0	A	0	0	0	0.9	4.0	
28-Sep-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	3	1	3	0.5	3.0
29-Sep-07	4	2	4	1	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	1	1.0	4.0
30-Sep-07	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	0	0	1	0	0	1	0.5	1.0	
Hourly Avg	0.4	0.2	0.3	0.2	0.2	0.4	0.4	0.6	0.6	0.5	0.5	0.5	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.6	0.6	0.8	0.4	0.5		
Hourly Max	4.0	2.0	4.0	1.5	0.5	4.0	1.9	4.6	7.1	4.5	2.5	4.0	1.8	4.1	4.0	2.1	1.2	0.9	0.7	4.6	6.5	11.5	1.9	3.0		

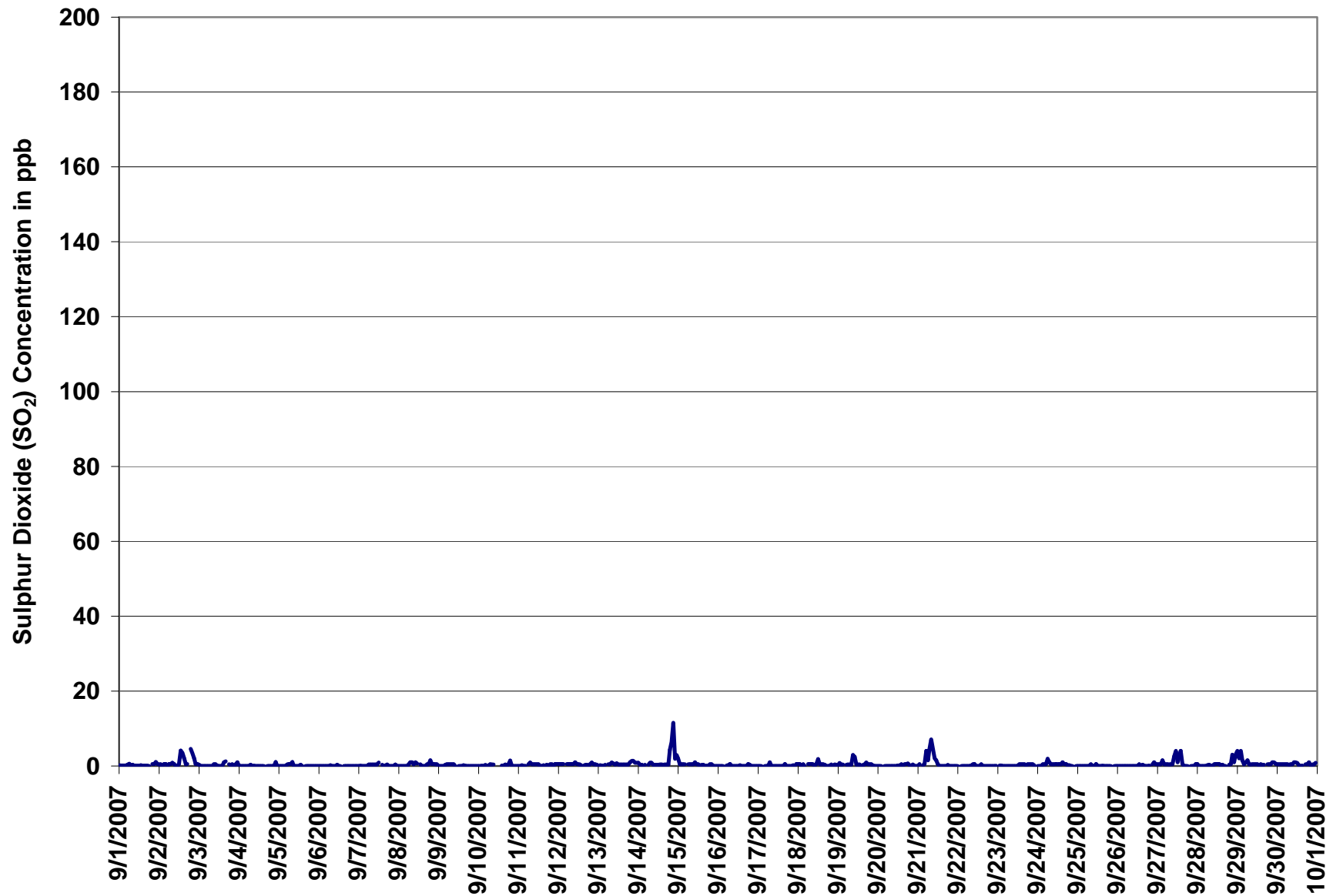
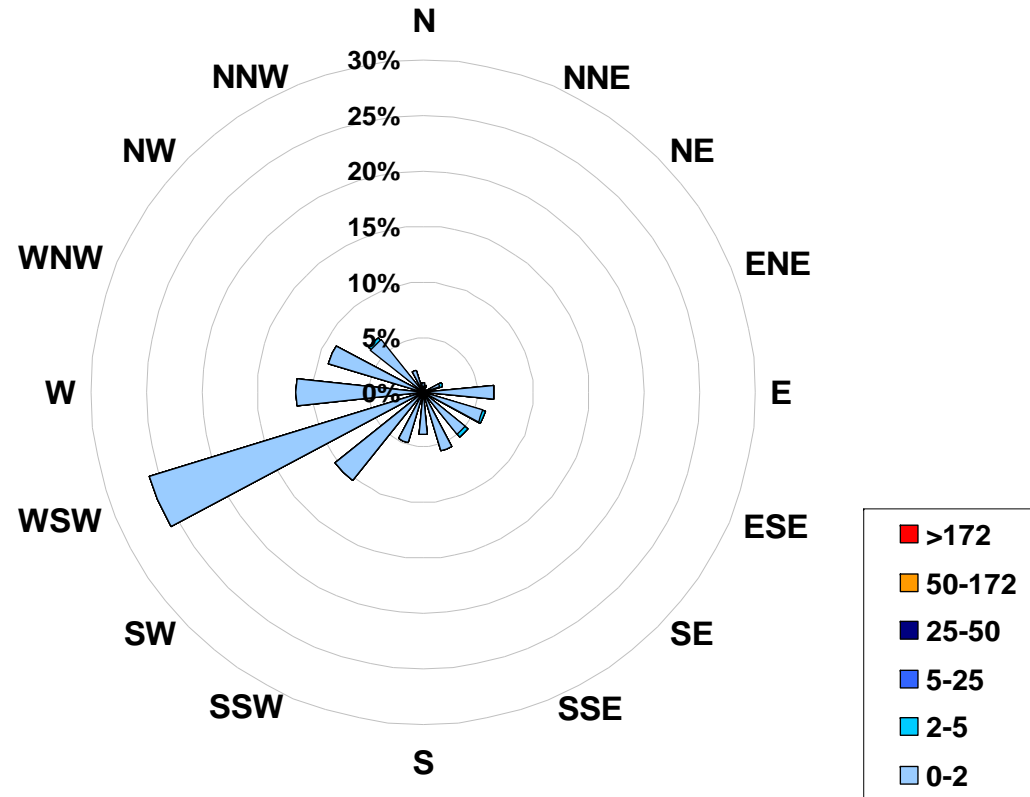


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	679
2	to	5	7
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			686

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

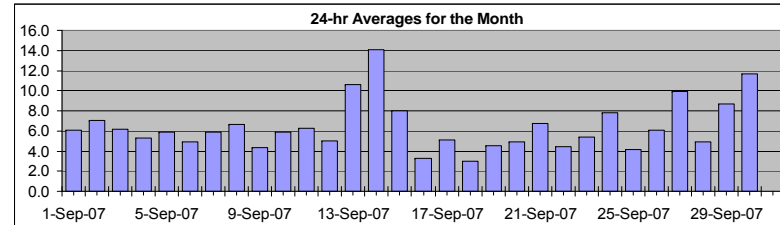
Monitoring Dates: September 1, 2007 to October 1, 2007

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:	33.1	ppb	14-Sep	19:00	20:00
Maximum 24-hr Average:	14.1	ppb	14-Sep		

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	24.9	17.6	8.5	4.7	2.7	1.4	1.1	6.4 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	5	4	4	4	6	8	8	5	4	2	2	2	1	2	3	2	2	3	5	A	20	18	16	14	6.1	19.9
2-Sep-07	12	12	11	9	8	6	9	8	5	4	3	4	2	3	3	3	4	5	A	11	16	9	8	8	7.0	15.7
3-Sep-07	5	3	3	6	11	9	8	8	8	7	6	5	5	3	3	5	3	A	9	11	12	6	6	2	6.2	11.6
4-Sep-07	1	3	3	3	5	9	14	13	10	6	4	3	5	4	4	3	A	5	4	6	6	6	4	3	5.3	13.5
5-Sep-07	4	4	3	3	3	15	22	16	10	5	4	4	3	3	3	A	6	5	5	9	4	3	2	1	5.9	21.7
6-Sep-07	2	2	2	3	3	7	15	11	8	6	1	1	2	2	A	6	5	6	9	6	5	4	5	3	4.9	15.5
7-Sep-07	4	3	3	4	5	12	19	13	8	3	2	1	1	A	5	4	3	6	9	7	11	7	3	3	5.9	18.7
8-Sep-07	2	2	4	3	4	7	13	10	9	8	5	3	A	5	2	2	2	2	2	7	20	19	13	9	6.7	20.4
9-Sep-07	4	4	4	4	7	9	10	8	5	3	2	A	5	4	3	3	2	3	3	4	4	3	2	2	4.3	10.2
10-Sep-07	3	3	3	3	9	12	14	12	8	6	A	5	3	3	2	2	3	5	8	14	9	4	2	2	5.9	14.5
11-Sep-07	3	2	3	6	10	A	19	17	10	6	6	9	7	9	9	8	6	2	3	2	2	1	1	1	6.2	19.3
12-Sep-07	2	1	1	2	A	9	14	11	5	3	3	2	1	1	2	2	3	2	3	12	18	9	4	5	5.0	17.5
13-Sep-07	5	8	8	7	6	A	8	6	C	C	C	C	6	5	4	2	2	4	6	27	29	26	24	18	10.6	28.5
14-Sep-07	15	15	11	10	12	A	23	23	22	12	7	4	4	4	3	4	4	7	13	33	33	26	21	19	14.1	33.1
15-Sep-07	19	16	11	10	8	A	14	13	14	11	9	8	4	2	2	3	4	8	9	7	4	2	2	2	8.0	19.2
16-Sep-07	2	3	2	1	A	7	6	8	5	4	4	3	4	3	3	3	2	2	2	3	3	2	2	2	3.3	7.8
17-Sep-07	2	2	3	A	8	12	15	13	6	3	2	2	3	3	3	5	5	4	5	5	4	6	3	2	5.1	15.1
18-Sep-07	1	1	1	1	1	A	8	6	4	3	2	1	2	1	2	3	3	4	3	5	5	4	4	2	3.0	7.7
19-Sep-07	2	4	5	6	A	11	12	10	7	5	2	2	2	2	2	2	4	5	6	5	5	2	2	3	4.5	11.6
20-Sep-07	2	3	2	A	4	5	6	7	6	3	3	2	3	3	4	4	8	6	5	8	7	6	10	8	4.9	10.3
21-Sep-07	6	6	A	8	10	13	11	13	11	11	8	5	4	4	4	4	4	5	5	5	5	5	4	3	6.8	13.3
22-Sep-07	3	A	6	5	5	9	7	11	8	2	2	1	1	1	1	1	2	2	4	5	4	6	6	8	4.5	11.3
23-Sep-07	A	6	5	4	4	4	4	5	4	2	2	2	1	1	2	2	2	2	9	18	17	15	9	A	5.4	17.7
24-Sep-07	8	7	10	10	8	9	14	16	12	6	5	6	5	7	10	11	8	6	5	6	3	3	A	5	7.9	15.8
25-Sep-07	3	2	2	2	4	4	5	8	5	3	2	3	2	3	3	3	4	4	5	11	11	A	5	2	4.2	11.1
26-Sep-07	1	1	1	1	1	3	5	5	4	3	3	2	2	4	3	3	4	4	7	11	A	24	24	26	6.1	25.9
27-Sep-07	20	18	14	9	9	15	13	12	8	6	11	9	6	6	9	7	8	9	8	A	9	9	5	10	9.9	19.9
28-Sep-07	9	5	4	3	6	9	11	12	7	4	2	2	2	2	2	2	2	3	A	8	8	4	4	3	4.9	11.6
29-Sep-07	2	3	3	4	8	13	15	9	6	3	2	1	1	1	2	2	4	A	14	19	19	21	25	21	8.7	24.7
30-Sep-07	19	19	16	16	14	16	13	11	15	15	18	11	3	1	1	2	A	10	19	17	10	7	7	8	11.7	19.1
Hourly Avg	5.7	5.6	5.1	5.2	6.7	9.3	11.8	10.8	8.1	5.3	4.4	3.8	3.2	3.1	3.3	3.5	3.8	4.6	6.6	10.1	10.4	8.8	7.7	6.7		
Hourly Max	19.9	19.1	15.8	16.2	14.2	15.7	22.6	22.7	22.0	14.9	17.7	11.4	7.4	8.6	10.1	11.2	8.1	9.8	19.0	33.1	33.1	26.4	24.7	25.9		

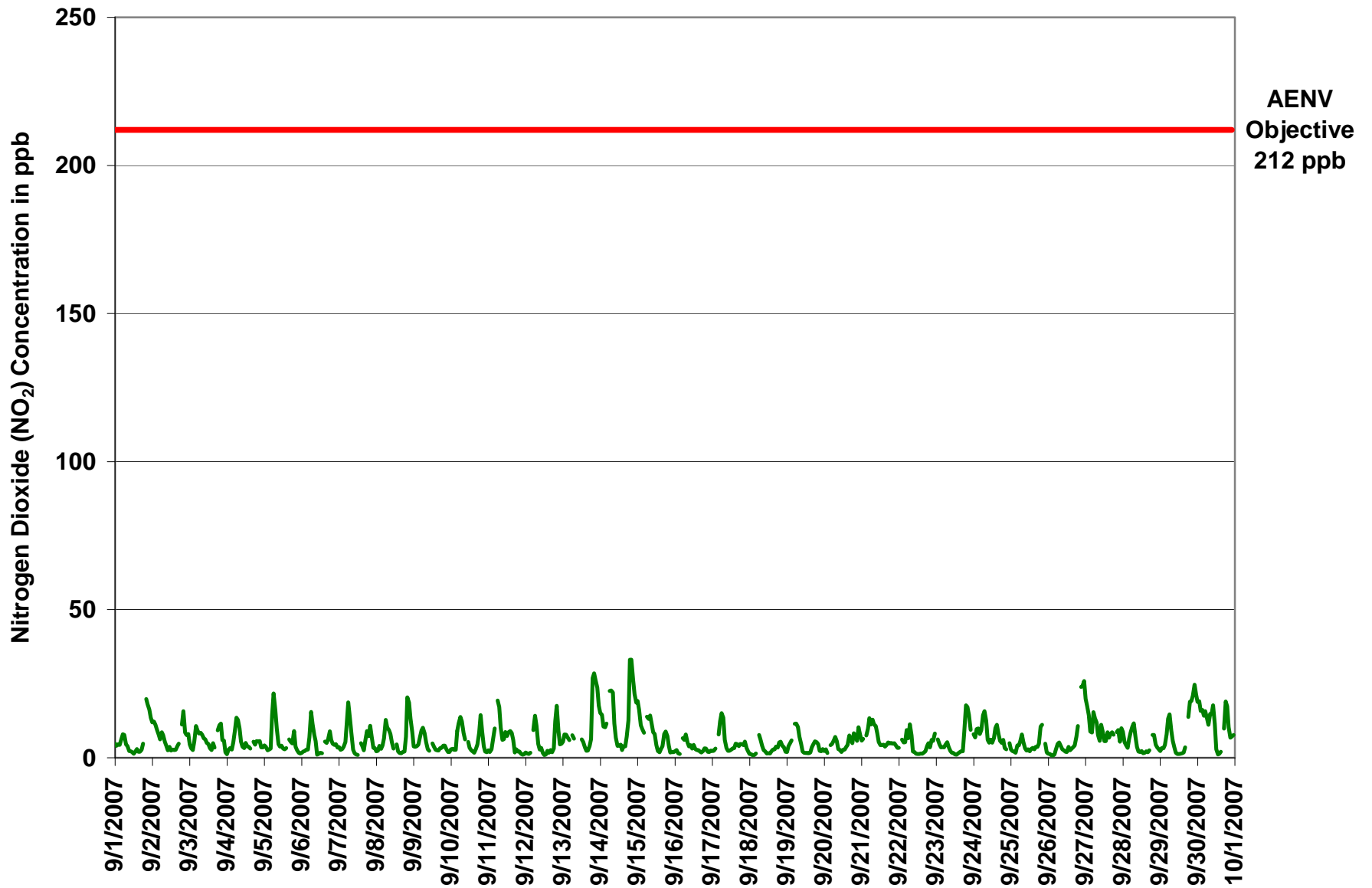


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

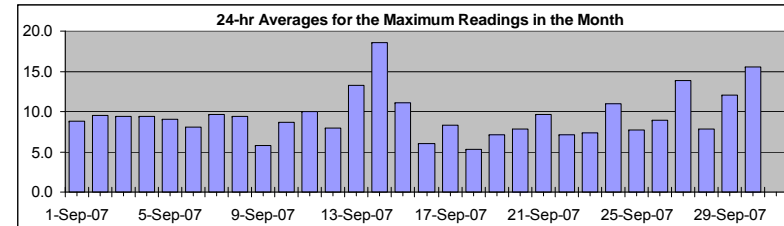
Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	38.0	ppb	14-Sep	20:00 21:00
Maximum 24-hr Value:	18.5	ppb	14-Sep	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.9	22.2	12.5	7.4	4.8	2.9	2.0	9.5 ppb	7.4 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	8	5	7	6	9	14	12	6	6	3	3	4	3	8	6	5	4	6	7	A	22	21	20	16	8.8	22.2
2-Sep-07	14	14	14	11	10	8	10	11	7	6	5	4	3	4	3	5	9	7	A	16	21	15	11	11	9.6	21.0
3-Sep-07	8	4	3	10	16	12	11	10	9	8	7	7	6	4	4	13	8	A	12	15	19	8	17	3	9.4	19.2
4-Sep-07	3	9	9	5	7	12	19	15	13	8	6	6	35	6	7	6	A	9	6	7	7	7	6	6	9.4	35.4
5-Sep-07	5	4	5	4	6	24	24	22	14	6	7	6	6	5	6	A	11	9	8	15	11	4	3	3	9.1	24.2
6-Sep-07	2	3	4	4	5	14	22	17	10	8	4	3	4	4	A	11	7	11	13	10	9	6	6	5	8.0	21.7
7-Sep-07	7	5	4	5	8	16	23	19	10	8	3	2	3	A	11	10	6	15	14	12	16	10	9	5	9.7	22.7
8-Sep-07	6	6	6	5	6	11	16	12	12	10	7	6	A	7	3	3	2	4	5	14	24	22	16	12	9.4	23.6
9-Sep-07	5	5	5	6	10	10	11	11	8	4	3	A	7	5	4	3	4	4	5	5	6	4	3	3	5.8	11.3
10-Sep-07	6	4	4	4	14	14	16	18	12	9	A	9	6	4	3	3	5	9	13	18	15	6	3	2	8.6	18.3
11-Sep-07	3	3	6	14	15	A	21	28	13	8	14	15	14	14	13	13	9	3	8	6	3	2	2	2	10.0	27.7
12-Sep-07	3	2	2	3	A	15	17	15	8	7	7	5	3	2	4	3	4	3	4	22	22	12	11	7	7.9	21.7
13-Sep-07	7	10	9	8	7	A	10	8	C	C	C	C	10	7	6	4	5	6	15	32	32	28	26	23	13.3	32.3
14-Sep-07	18	18	13	13	14	A	25	29	28	15	11	6	9	8	6	10	7	13	25	38	38	33	27	22	18.5	38.0
15-Sep-07	21	21	14	12	9	A	20	14	17	15	12	12	8	7	4	6	8	13	14	11	8	2	3	3	11.1	21.2
16-Sep-07	5	6	3	4	A	11	11	11	11	8	6	5	6	7	5	6	4	3	3	5	5	3	4	7	6.0	10.8
17-Sep-07	4	3	8	A	16	17	20	18	9	5	4	5	5	6	6	7	8	6	6	7	7	13	7	3	8.3	20.1
18-Sep-07	2	2	2	2	3	A	10	9	6	6	6	5	4	4	5	5	5	6	6	7	9	6	6	3	5.3	9.9
19-Sep-07	4	8	8	8	A	15	13	13	9	6	4	3	2	3	3	4	7	9	9	6	12	4	4	8	7.1	15.0
20-Sep-07	4	5	3	A	6	7	8	9	8	4	5	4	5	8	7	10	13	12	10	15	9	8	12	9	7.9	14.8
21-Sep-07	10	8	A	12	12	15	13	28	13	13	12	6	6	7	7	5	6	9	8	7	7	6	5	5	9.6	27.8
22-Sep-07	5	A	10	9	7	13	13	17	12	3	3	3	2	3	2	3	4	4	7	8	6	9	10	12	7.2	16.7
23-Sep-07	A	8	7	5	5	5	6	7	5	4	3	3	2	3	3	3	4	3	15	20	21	17	12	A	7.4	20.7
24-Sep-07	11	10	12	12	9	11	20	17	16	10	7	9	10	11	15	15	11	13	8	10	5	4	A	7	11.0	19.7
25-Sep-07	4	3	4	2	7	8	11	12	7	5	6	24	4	6	6	4	8	6	8	13	16	A	6	4	7.7	24.4
26-Sep-07	2	2	1	1	2	5	7	7	6	4	5	4	5	6	4	5	6	7	11	20	A	30	32	30	8.9	32.2
27-Sep-07	25	20	19	11	12	23	17	13	12	8	15	14	8	8	13	10	12	12	15	A	15	14	7	13	13.8	25.2
28-Sep-07	11	8	5	6	10	15	16	18	11	8	3	4	5	3	4	4	4	4	A	12	11	7	6	5	7.9	18.3
29-Sep-07	4	5	4	5	12	18	19	16	8	6	3	2	3	2	3	3	7	A	24	31	22	25	28	28	12.1	30.6
30-Sep-07	22	22	18	19	16	20	19	14	17	17	21	18	6	3	3	3	A	19	26	29	13	9	13	12	15.6	28.6
Hourly Avg	8.0	7.7	7.2	7.4	9.5	13.4	15.3	14.7	11.0	7.8	6.9	6.9	6.6	5.8	5.8	6.3	6.8	8.0	10.9	14.7	14.2	11.8	10.9	9.3		
Hourly Max	25.2	21.7	18.8	18.8	16.3	24.2	25.2	29.2	27.6	16.6	20.8	24.4	35.4	14.3	15.3	14.8	13.3	19.2	25.7	37.7	38.0	32.6	32.2	29.6		

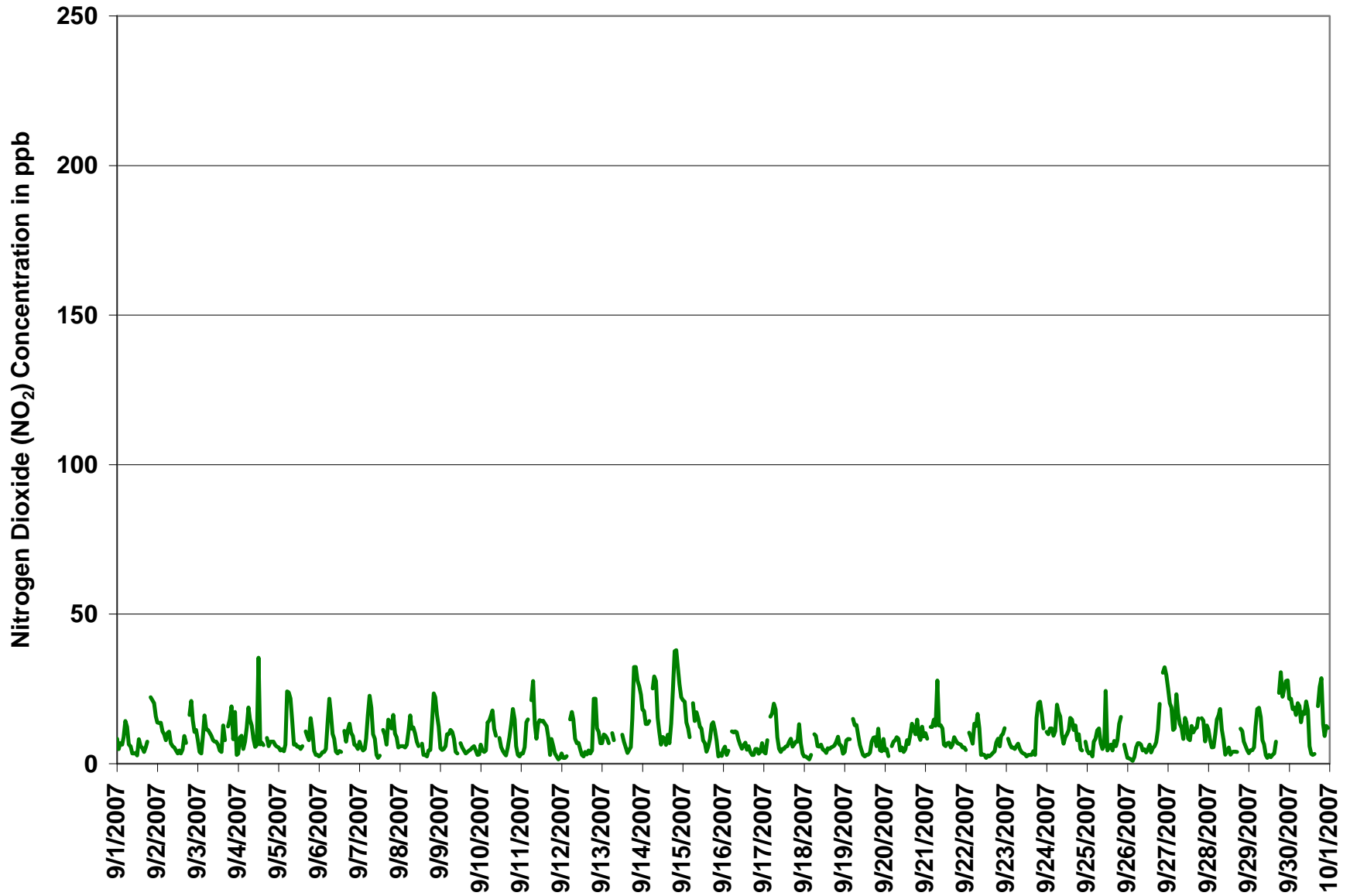
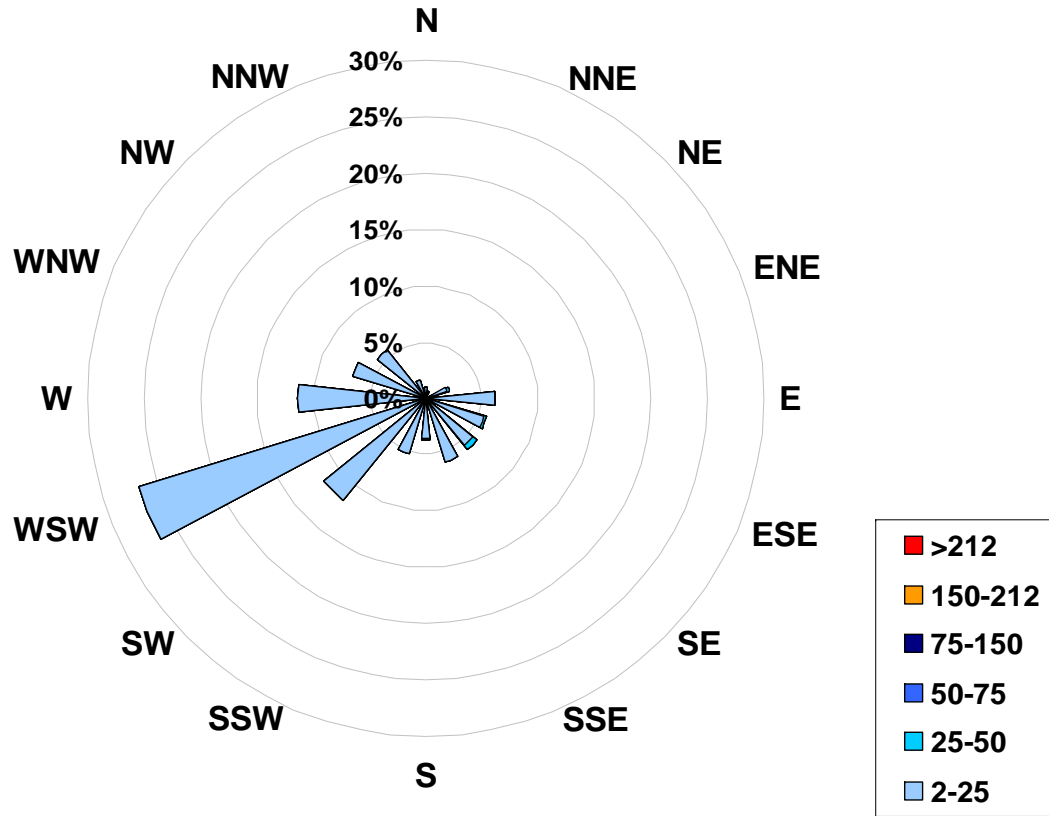


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		672
25	to 50		9
50	to 75		4
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			685

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

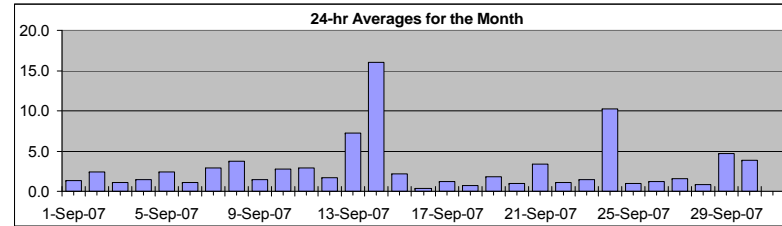
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

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

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

Maximum 1-hr Average:	65.1	ppb	14-Sep	21:00 22:00
Maximum 24-hr Average:	16.0	ppb	14-Sep	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	31.4	12.8	2.1	0.9	0.4	0.0	0.0	2.8 ppb	0.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Sep-07	0	0	0	0	0	3	2	2	3	2	1	1	1	1	1	1	1	1	1	A	2	4	2	1	1.3	3.9	
2-Sep-07	1	1	3	5	3	2	14	6	6	3	2	2	1	1	1	0	1	1	A	0	0	1	0	0	2.4	14.5	
3-Sep-07	0	0	0	0	0	0	1	3	4	5	4	3	2	1	0	1	1	A	0	0	0	0	0	0	1.1	5.3	
4-Sep-07	0	0	0	0	0	1	4	8	5	2	2	1	4	1	1	1	A	1	1	1	0	0	0	0	1.5	7.7	
5-Sep-07	0	0	0	0	0	7	16	10	5	3	2	2	2	1	2	A	2	1	1	1	0	0	0	0	2.4	15.8	
6-Sep-07	0	0	0	0	0	0	4	4	2	3	1	1	1	1	A	1	1	2	2	1	0	0	0	0	1.0	3.8	
7-Sep-07	0	0	0	0	0	2	26	17	9	3	1	1	0	A	2	1	1	1	2	1	1	0	0	0	2.9	25.8	
8-Sep-07	0	0	0	0	0	3	15	15	20	12	8	4	A	1	1	0	0	1	0	0	4	3	1	0	3.8	19.6	
9-Sep-07	0	0	0	0	1	2	4	7	4	2	2	A	1	1	1	1	1	1	1	1	1	0	0	0	1.4	7.4	
10-Sep-07	0	0	0	0	3	6	10	16	7	7	A	2	1	1	1	1	1	2	2	3	1	0	0	0	2.7	15.6	
11-Sep-07	0	0	0	0	1	A	10	24	9	4	2	1	2	2	3	3	3	1	1	1	0	0	0	0	2.9	24.1	
12-Sep-07	0	0	0	0	A	2	10	8	1	1	2	1	1	1	1	1	1	0	0	1	4	1	1	0	1.7	10.2	
13-Sep-07	0	1	1	1	2	A	15	31	C	C	C	C	3	3	1	1	1	1	1	14	20	15	13	16	7.2	30.8	
14-Sep-07	20	5	3	3	6	A	26	50	35	8	3	1	1	1	1	1	1	1	1	19	45	65	49	24	16.0	65.1	
15-Sep-07	11	5	0	1	0	A	1	5	8	8	5	3	1	0	0	0	0	1	0	0	0	0	0	0	2.2	10.9	
16-Sep-07	0	0	0	0	A	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.4	1.2	
17-Sep-07	0	0	0	A	0	1	3	5	3	2	1	1	1	1	1	2	2	1	1	0	0	0	0	0	1.1	4.7	
18-Sep-07	0	0	0	0	0	A	2	3	2	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0.8	2.8	
19-Sep-07	0	0	0	0	A	4	8	8	6	5	2	1	1	1	1	1	1	1	1	0	0	1	0	0	1.9	8.3	
20-Sep-07	0	0	0	A	0	0	1	2	2	2	2	1	1	1	2	2	2	1	1	1	1	0	1	0	1.0	2.4	
21-Sep-07	0	0	A	0	1	7	6	13	13	16	5	3	3	3	2	1	1	1	0	0	0	0	0	0	3.3	15.6	
22-Sep-07	0	A	0	0	0	1	1	4	3	1	1	1	1	2	1	1	1	1	2	2	1	1	0	1	1.1	3.9	
23-Sep-07	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	1	5	6	3	1	A	1.4	5.7	
24-Sep-07	0	0	5	8	13	27	57	60	28	7	5	6	3	2	3	4	2	2	1	1	0	0	A	0	10.2	60.5	
25-Sep-07	0	0	0	0	0	0	1	2	2	2	1	5	1	1	2	1	1	1	0	0	0	A	0	0	0.9	4.6	
26-Sep-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	4	8	1.2	8.4	
27-Sep-07	1	0	1	1	1	3	2	3	3	3	4	3	2	2	4	2	1	1	0	A	0	0	0	0	1.6	3.7	
28-Sep-07	0	0	0	0	0	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	0	0.9	2.1
29-Sep-07	0	0	0	0	1	10	12	4	3	3	2	1	1	1	1	1	1	A	0	3	6	25	24	11	4.7	25.2	
30-Sep-07	4	8	3	6	1	3	2	1	6	15	20	7	1	1	0	1	A	1	2	3	1	1	1	1	3.8	20.3	
Hourly Avg	1.3	0.8	0.6	0.9	1.3	3.5	8.5	10.5	6.7	4.2	2.9	2.0	1.4	1.2	1.3	1.1	1.1	0.9	0.8	2.1	3.3	4.3	3.4	2.2			
Hourly Max	19.6	7.8	4.6	8.2	12.9	26.8	57.0	60.5	34.7	15.6	20.3	6.9	3.6	2.8	3.5	4.4	2.8	1.9	2.0	18.6	44.5	65.1	49.3	23.7			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

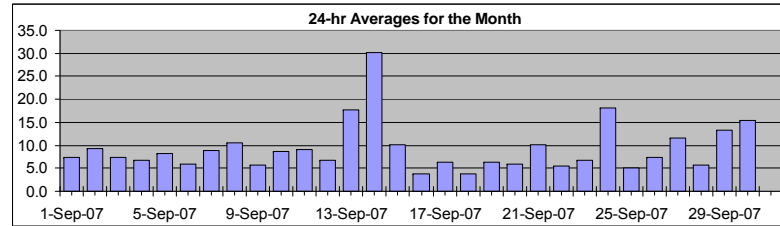
Oxides of Nitrogen (NO_x)

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

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

Maximum 1-hr Average:	91.6	ppb	14-Sep	21:00 22:00
Maximum 24-hr Average:	30.1	ppb	14-Sep	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.5	27.7	10.4	5.5	3.4	1.9	1.3	9.2 ppb	5.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	5	4	5	5	7	11	10	7	7	4	3	3	2	3	4	3	3	4	6	A	22	22	19	14	7.4	22.0
2-Sep-07	13	13	14	14	11	8	23	13	11	7	4	6	3	4	3	3	5	6	A	12	16	9	8	8	9.4	23.2
3-Sep-07	5	3	3	6	11	9	9	11	12	12	10	8	7	4	3	5	4	A	10	11	12	6	6	2	7.3	12.0
4-Sep-07	1	3	3	3	5	10	17	21	15	8	5	5	9	5	5	4	A	6	5	6	6	6	4	4	6.8	20.6
5-Sep-07	4	4	3	3	3	21	38	26	15	7	6	6	5	4	5	A	8	7	6	10	4	3	2	1	8.3	37.5
6-Sep-07	2	2	2	3	3	7	19	15	10	9	2	2	3	2	A	7	6	8	11	7	5	5	5	3	6.0	19.1
7-Sep-07	4	3	3	4	6	14	44	30	18	5	3	2	1	A	7	5	3	8	10	8	11	7	4	3	8.8	44.5
8-Sep-07	2	2	4	3	5	9	28	25	29	20	13	7	A	5	3	2	2	3	2	8	24	21	14	9	10.5	29.0
9-Sep-07	4	4	4	5	8	12	14	16	9	5	4	A	6	5	4	4	3	4	4	5	5	3	2	2	5.7	15.7
10-Sep-07	3	3	3	3	12	18	24	28	15	13	A	7	5	3	3	2	4	6	10	18	10	4	2	2	8.6	27.9
11-Sep-07	3	2	3	6	11	A	29	41	19	10	9	10	9	11	12	11	9	3	4	3	3	2	1	1	9.1	41.2
12-Sep-07	2	2	1	2	A	11	24	18	6	4	5	3	1	2	4	3	4	2	3	13	21	10	5	5	6.7	24.4
13-Sep-07	6	8	8	8	8	A	23	37	C	C	C	C	9	8	5	3	3	5	7	41	48	41	37	34	17.8	48.2
14-Sep-07	35	20	14	13	17	A	49	73	57	20	10	5	5	6	3	5	4	8	14	52	78	92	71	42	30.1	91.6
15-Sep-07	30	21	11	10	9	A	15	18	23	19	13	11	5	3	2	4	4	9	9	7	4	2	2	2	10.2	30.1
16-Sep-07	2	3	2	1	A	7	6	9	6	4	5	4	5	4	4	3	3	2	3	3	3	2	2	3	3.7	9.0
17-Sep-07	2	2	3	A	8	14	18	18	9	5	4	4	4	4	4	6	6	5	5	5	4	6	4	3	6.3	18.3
18-Sep-07	1	1	1	1	2	A	9	9	6	4	4	3	2	2	3	4	4	5	4	6	6	4	4	2	3.8	9.3
19-Sep-07	2	4	5	6	A	16	20	19	13	10	4	3	3	3	2	3	4	5	6	5	5	3	2	3	6.4	19.8
20-Sep-07	2	3	2	A	4	5	7	9	8	5	4	3	4	4	5	6	9	7	6	9	8	6	11	8	5.9	11.0
21-Sep-07	6	7	A	8	11	20	17	26	24	26	13	8	7	7	7	5	6	6	5	5	5	5	4	4	10.1	26.4
22-Sep-07	3	A	6	5	5	10	7	15	11	3	3	2	3	3	3	2	3	3	6	6	4	7	6	9	5.6	15.2
23-Sep-07	A	7	5	4	4	4	5	7	6	4	3	3	2	2	2	2	3	3	10	23	23	18	10	A	6.8	22.7
24-Sep-07	8	7	14	18	21	36	72	76	41	14	10	12	8	9	14	16	10	7	6	7	4	3	A	5	18.1	76.3
25-Sep-07	3	2	2	2	5	5	6	9	7	5	4	7	3	4	5	4	5	4	5	11	12	A	5	2	5.1	11.5
26-Sep-07	2	1	1	1	1	3	5	6	5	4	4	3	3	5	4	4	5	5	8	11	A	25	28	34	7.3	34.2
27-Sep-07	21	18	15	9	9	19	16	15	10	8	15	12	8	8	12	9	9	9	8	A	9	9	5	10	11.5	21.3
28-Sep-07	9	5	4	3	7	9	12	13	9	5	3	3	4	2	3	3	3	3	A	9	10	5	4	3	5.7	13.5
29-Sep-07	3	3	3	4	9	23	27	13	9	6	3	2	2	2	2	2	4	A	14	22	25	46	48	32	13.4	48.4
30-Sep-07	23	27	19	22	15	19	15	12	21	30	38	18	4	2	2	3	A	11	20	20	11	7	8	8	15.5	38.1
Hourly Avg	7.1	6.4	5.7	6.2	8.0	12.9	20.3	21.3	14.8	9.5	7.3	5.8	4.6	4.3	4.6	4.6	4.9	5.5	7.4	12.3	13.7	13.1	11.1	9.0		
Hourly Max	34.8	26.8	19.0	21.8	21.0	36.3	71.5	76.3	56.7	29.6	38.1	18.2	9.2	10.9	13.6	15.5	10.0	11.1	20.5	51.7	77.6	91.6	70.9	42.3		

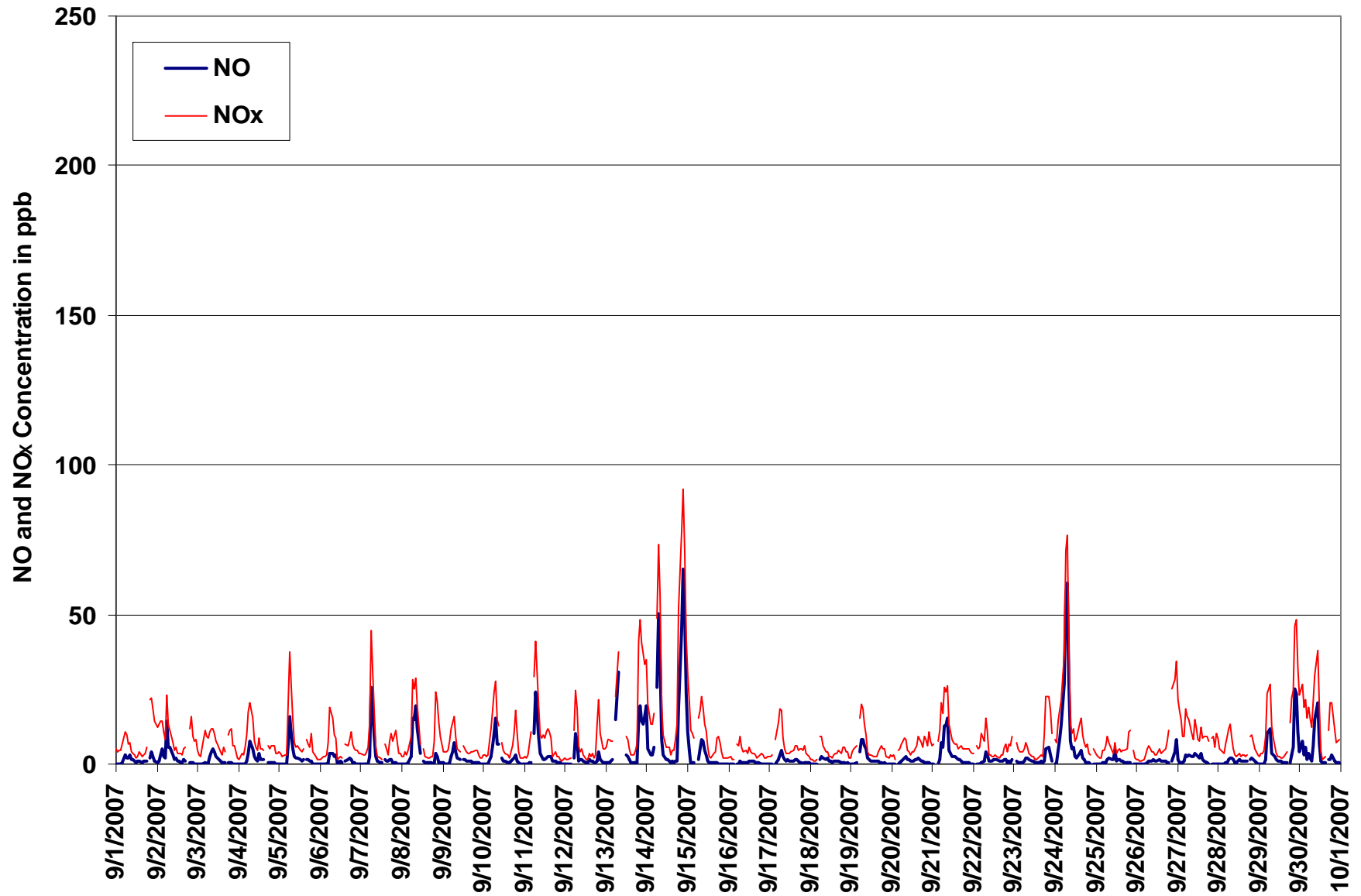


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

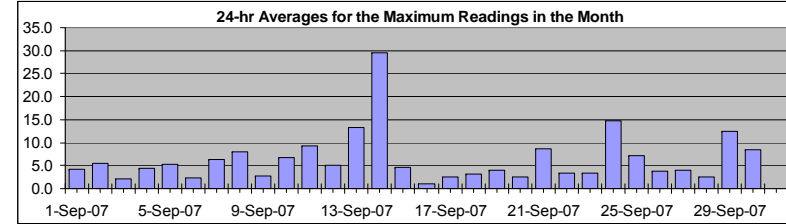
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	128.3	ppb	25-Sep	11:00 12:00
Maximum 24-hr Value:	29.4	ppb	14-Sep	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	70.0	26.0	5.1	2.4	1.0	0.3	0.0	6.3 ppb	2.4 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0	0	1	0	0	15	4	4	5	2	2	2	2	4	4	2	2	2	2	A	5	7	7	2	4.2	26.8
2-Sep-07	1	9	5	9	7	11	21	14	11	7	5	3	2	2	1	3	5	3	A	2	1	5	0	1	5.5	21.0
3-Sep-07	0	0	0	0	5	0	1	4	7	7	5	4	3	1	1	2	2	A	1	1	2	0	2	0	2.2	6.9
4-Sep-07	0	0	0	0	1	2	9	13	8	4	3	5	42	4	3	3	A	2	1	1	1	1	1	0	4.5	42.3
5-Sep-07	0	0	0	0	0	26	26	22	13	4	4	3	3	2	3	A	3	3	2	2	2	0	0	0	5.3	26.0
6-Sep-07	0	0	0	0	0	1	8	9	3	5	3	2	3	2	A	2	3	4	3	1	0	0	0	0	2.3	9.3
7-Sep-07	0	0	0	0	1	6	45	30	13	11	2	1	2	A	8	3	3	6	3	4	2	0	1	0	6.3	45.4
8-Sep-07	4	0	0	0	3	12	31	20	34	20	12	9	A	2	1	1	1	2	2	9	10	5	2	0	8.0	34.4
9-Sep-07	1	1	0	0	3	4	7	14	7	4	3	A	4	2	2	2	2	1	1	1	1	0	0	0	2.8	14.2
10-Sep-07	0	0	0	1	11	13	24	48	12	12	A	4	3	2	1	1	2	4	3	5	3	1	0	0	6.7	48.0
11-Sep-07	0	0	2	2	3	A	27	109	11	6	13	3	5	5	6	5	6	2	4	3	1	1	0	0	9.4	109.0
12-Sep-07	1	0	0	0	A	10	23	17	2	12	8	9	4	2	2	1	2	1	0	5	8	3	2	2	5.1	23.1
13-Sep-07	1	2	1	2	4	A	27	41	C	C	C	C	5	6	3	1	1	1	1	39	44	20	23	29	13.2	43.6
14-Sep-07	28	14	7	10	16	A	42	79	109	13	6	2	4	3	2	2	1	2	5	58	67	87	84	34	29.4	108.9
15-Sep-07	25	12	1	2	0	A	3	8	12	16	8	5	3	1	1	1	1	1	1	0	0	0	0	0	4.5	25.4
16-Sep-07	0	0	0	0	A	3	2	3	2	1	1	1	2	2	1	1	1	1	0	0	0	0	0	0	1.1	3.4
17-Sep-07	0	0	1	A	1	3	6	7	4	2	2	3	2	3	2	3	4	2	1	0	0	2	4	1	2.4	7.3
18-Sep-07	0	1	1	0	1	A	3	6	6	5	16	9	3	3	2	2	2	2	2	1	2	1	2	0	3.1	15.7
19-Sep-07	2	3	1	2	A	12	15	13	11	8	4	3	2	2	2	2	2	1	1	0	1	1	0	1	4.0	14.9
20-Sep-07	0	0	0	A	0	1	1	3	4	3	3	2	3	4	5	4	5	6	2	2	1	1	1	1	2.5	6.4
21-Sep-07	1	1	A	0	2	18	8	66	23	25	10	4	4	22	4	2	3	1	1	0	0	1	0	0	8.7	66.0
22-Sep-07	0	A	0	0	1	1	8	9	5	1	2	2	3	3	2	2	2	2	8	12	2	5	2	2	3.4	12.4
23-Sep-07	A	2	1	2	1	2	3	4	4	3	2	3	2	2	1	2	6	1	2	10	9	7	2	A	3.3	9.8
24-Sep-07	0	2	10	12	17	37	77	69	43	16	6	10	8	5	7	7	4	4	1	1	0	0	A	0	14.7	77.2
25-Sep-07	0	0	0	0	1	2	2	2	3	2	3	128	3	2	3	2	3	2	1	1	1	A	0	0	7.2	128.3
26-Sep-07	0	0	0	0	0	0	1	1	8	2	3	2	3	3	2	2	2	3	1	1	A	7	19	24	3.8	24.2
27-Sep-07	5	1	2	2	3	16	6	5	9	8	6	5	4	3	6	3	2	1	0	A	0	0	0	0	4.0	16.4
28-Sep-07	0	0	0	0	1	2	4	6	4	3	1	2	4	2	3	2	2	2	A	3	6	3	4	1	2.5	6.2
29-Sep-07	2	1	1	1	11	40	39	20	5	5	3	2	3	1	1	1	3	A	3	11	25	44	45	19	12.5	44.5
30-Sep-07	12	15	9	16	4	11	5	5	15	20	31	17	3	2	1	1	A	4	3	9	4	1	3	3	8.5	30.9
Hourly Avg	3.2	2.3	1.6	2.5	3.7	10.1	16.0	21.8	13.6	7.8	6.1	8.9	4.6	3.5	2.8	2.4	2.8	2.5	2.1	6.6	7.0	7.8	7.2	4.3		
Hourly Max	28.0	15.2	9.8	16.2	17.2	40.2	77.2	109.0	108.9	25.4	30.9	128.3	42.3	22.4	7.8	6.9	5.9	6.4	8.3	57.9	66.7	87.3	84.0	34.2		

Station: Henry Pirker
 Station Owner: PASZA

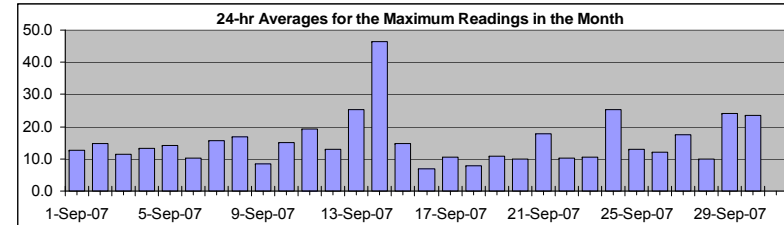
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	136.9	ppb	11-Sep	7:00 8:00
Maximum 24-hr Value:	46.3	ppb	14-Sep	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	96.9	46.2	17.5	9.8	6.2	3.5	2.4	15.3 ppb	9.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	9	5	7	6	9	30	17	9	11	6	5	6	4	12	10	7	6	8	9	A	27	45	24	17	12.6	45.4
2-Sep-07	15	22	18	19	16	18	30	25	17	13	10	7	5	6	5	6	13	10	A	17	22	19	11	12	14.7	30.2
3-Sep-07	8	4	3	10	20	12	12	14	15	15	12	12	9	6	5	15	9	A	13	16	21	8	18	3	11.3	20.6
4-Sep-07	4	9	10	5	8	14	28	27	21	12	8	9	64	10	10	9	A	10	7	8	8	8	7	6	13.1	63.8
5-Sep-07	6	5	5	4	7	50	50	43	28	10	11	9	9	7	9	A	14	12	9	17	13	4	3	3	14.2	49.6
6-Sep-07	2	3	4	4	6	16	29	26	13	13	7	5	7	5	A	13	10	15	17	12	9	6	6	5	10.2	29.0
7-Sep-07	7	6	4	5	9	23	66	48	22	19	5	3	4	A	20	12	9	21	17	15	18	10	10	6	15.7	66.4
8-Sep-07	10	6	6	6	9	22	44	31	46	30	20	15	A	9	4	4	3	6	6	22	32	27	18	13	16.9	46.3
9-Sep-07	6	5	5	6	13	14	18	25	16	8	6	A	11	7	7	5	6	6	6	6	7	5	3	3	8.4	24.6
10-Sep-07	7	4	4	6	25	27	40	65	24	21	A	13	8	6	5	4	7	13	16	23	18	7	3	2	15.2	65.3
11-Sep-07	3	3	7	16	18	A	47	137	25	14	27	18	19	19	19	17	15	4	12	9	4	4	2	2	19.2	136.9
12-Sep-07	4	2	2	3	A	25	40	32	11	19	15	14	5	4	6	5	7	4	5	27	29	15	13	8	12.8	40.4
13-Sep-07	7	11	10	10	10	A	34	49	C	C	C	C	14	13	8	5	6	7	16	71	76	47	46	43	25.4	75.6
14-Sep-07	43	30	18	22	27	A	67	108	136	29	16	9	13	11	8	11	8	15	26	93	99	114	106	54	46.3	136.5
15-Sep-07	43	29	15	13	9	A	23	21	26	30	20	16	10	8	5	7	9	15	14	12	8	2	4	3	14.9	42.9
16-Sep-07	5	6	3	4	A	13	11	14	13	9	7	6	8	9	6	7	5	4	4	5	5	3	4	7	7.0	14.3
17-Sep-07	4	4	9	A	17	19	26	24	13	8	6	8	8	9	8	10	12	7	7	8	8	15	8	5	10.6	25.9
18-Sep-07	3	4	2	2	4	A	13	15	10	10	19	12	7	7	7	7	8	7	8	11	7	8	3	3	7.8	19.0
19-Sep-07	6	8	10	10	A	27	27	26	18	14	8	6	5	5	5	5	10	10	11	6	13	5	5	9	10.9	27.1
20-Sep-07	5	5	2	A	6	9	9	11	12	7	8	6	7	12	10	13	17	18	12	17	10	9	14	10	10.0	17.8
21-Sep-07	11	9	A	12	15	32	21	94	35	38	22	10	10	20	11	8	9	10	8	7	7	7	6	5	17.8	93.9
22-Sep-07	5	A	11	9	7	15	20	25	16	5	5	5	4	6	4	4	6	6	15	18	7	14	10	14	10.2	25.3
23-Sep-07	A	11	8	8	7	7	7	11	8	7	6	6	4	5	4	6	9	3	17	30	30	22	14	A	10.4	29.9
24-Sep-07	11	12	21	24	26	48	96	86	58	25	12	19	18	16	22	22	14	17	9	11	5	5	A	8	25.4	96.4
25-Sep-07	4	3	4	2	8	10	13	14	9	7	9	113	7	8	9	6	11	8	9	14	16	A	6	4	12.9	113.1
26-Sep-07	2	2	1	1	2	6	8	8	10	6	7	6	8	9	5	8	8	10	12	21	A	37	50	49	12.1	50.5
27-Sep-07	30	21	21	13	14	40	21	18	19	16	21	19	13	11	18	13	14	13	16	A	15	15	8	13	17.4	39.5
28-Sep-07	12	8	5	6	11	17	20	23	16	11	4	6	9	5	7	6	5	5	A	15	16	9	10	5	10.1	22.5
29-Sep-07	6	4	5	6	23	58	57	35	13	12	6	4	5	4	4	5	10	A	26	40	48	67	71	43	24.0	70.7
30-Sep-07	32	36	26	35	20	31	23	17	32	35	51	35	8	5	4	4	A	23	28	38	16	10	15	15	23.4	51.2
Hourly Avg	10.7	9.6	8.6	9.6	12.8	23.2	30.6	36.0	24.0	15.5	12.8	14.2	10.5	8.8	8.5	8.4	9.3	10.3	12.6	20.9	20.7	19.0	17.3	12.8		
Hourly Max	42.9	35.8	26.3	34.9	27.2	58.3	96.4	136.9	136.5	38.4	51.2	113.1	63.8	20.0	22.0	21.5	16.7	22.6	27.9	93.0	99.5	114.3	106.3	54.4		

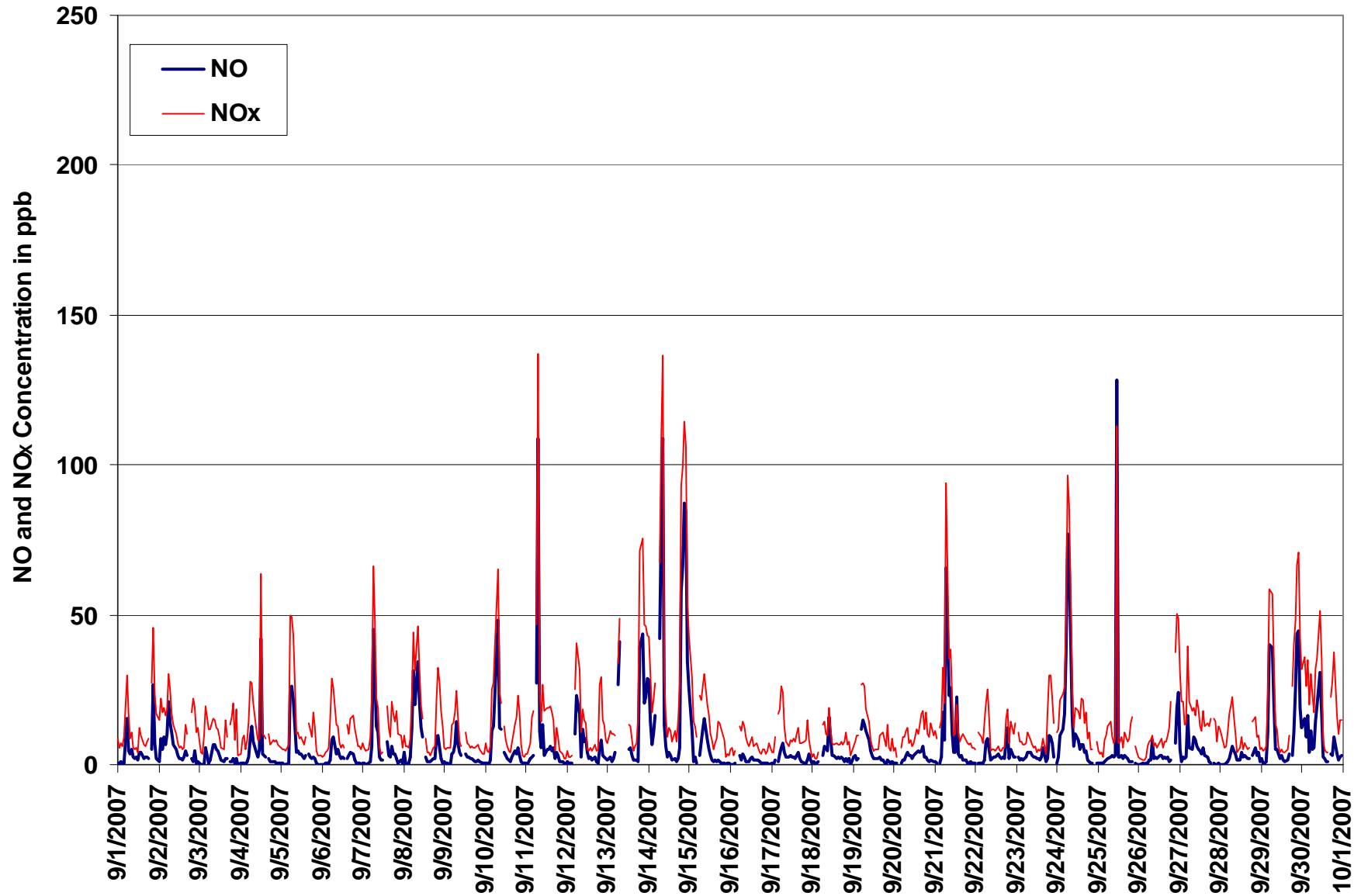


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

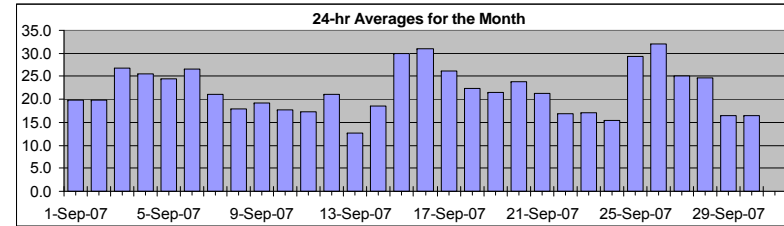
Ozone (O₃)

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

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	57.9 ppb	15-Sep	14:00 15:00
Maximum 24-hr Average:	32.0 ppb	26-Sep	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.8	37.1	29.4	22.9	14.8	5.8	4.1	22.0 ppb	22.9 ppb



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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	16	16	16	15	11	11	13	16	18	24	27	29	31	30	30	31	31	30	26	A	9	8	9	10	19.8	31.4	
2-Sep-07	9	8	4	5	6	5	4	6	11	19	23	28	33	37	41	39	33	37	A	26	19	24	19	19	19.8	40.7	
3-Sep-07	26	27	31	24	14	12	12	11	11	17	24	31	34	41	45	42	43	A	34	27	22	26	27	33	26.7	44.7	
4-Sep-07	34	27	23	20	17	14	10	11	14	26	32	33	33	35	34	33	A	32	31	28	27	25	26	24	25.6	35.1	
5-Sep-07	21	21	22	20	24	14	6	12	16	22	25	25	27	31	32	A	29	30	28	22	30	32	36	37	24.4	37.1	
6-Sep-07	36	33	32	29	28	22	15	17	20	24	32	34	34	35	A	34	30	26	21	23	25	23	20	21	26.7	35.9	
7-Sep-07	20	20	20	18	17	10	6	9	14	22	25	27	30	A	30	30	31	25	22	22	18	20	25	23	21.1	31.5	
8-Sep-07	24	23	21	15	11	9	5	6	7	10	12	21	A	28	31	32	33	32	31	24	8	8	10	12	18.0	32.5	
9-Sep-07	16	16	15	13	10	7	6	9	15	21	25	A	28	28	28	28	27	25	23	21	20	20	21	19	19.2	28.4	
10-Sep-07	17	16	15	13	6	6	5	8	11	15	A	23	27	30	29	30	30	25	19	11	15	19	20	19	17.8	29.9	
11-Sep-07	18	23	22	17	12	A	6	5	8	18	27	24	24	19	17	18	17	18	15	16	18	19	19	18	17.4	26.9	
12-Sep-07	17	17	20	18	A	10	6	12	25	25	26	28	28	27	27	30	31	34	29	16	9	14	19	17	21.1	33.6	
13-Sep-07	15	12	7	6	5	A	4	4	6	10	14	C	C	C	C	32	34	33	29	8	5	6	5	5	12.6	33.6	
14-Sep-07	4	6	4	6	4	A	4	5	10	19	29	35	37	40	42	41	41	37	30	8	8	7	4	6	18.5	42.1	
15-Sep-07	5	6	11	7	8	A	7	8	11	17	24	29	46	55	58	55	52	44	41	40	42	45	42	39	30.0	57.9	
16-Sep-07	37	35	34	36	A	24	21	20	29	33	31	33	32	31	31	29	31	35	34	33	33	33	30	28	31.0	37.3	
17-Sep-07	26	25	24	A	20	16	17	18	25	30	33	34	34	33	32	29	28	28	26	26	26	22	25	25	26.2	34.4	
18-Sep-07	23	24	27	26	21	A	14	14	16	18	20	22	21	22	25	24	25	24	24	22	23	24	26	30	22.4	29.7	
19-Sep-07	29	24	21	20	A	8	5	7	11	16	20	21	23	25	28	30	30	27	22	21	25	29	27	26	21.5	29.9	
20-Sep-07	24	22	25	A	27	24	23	21	21	25	29	32	34	32	32	30	24	23	24	18	17	17	12	14	23.9	33.7	
21-Sep-07	13	11	A	11	9	6	6	6	6	8	16	22	26	32	36	38	36	34	34	32	30	27	26	27	21.3	37.9	
22-Sep-07	25	A	22	21	18	16	17	12	16	23	23	20	17	16	18	19	18	16	15	14	14	11	10	9	16.9	24.9	
23-Sep-07	A	15	15	16	15	15	14	14	15	18	19	22	24	27	26	26	25	24	17	8	7	7	9	A	17.2	27.2	
24-Sep-07	9	8	5	4	4	4	5	5	7	12	14	18	25	23	19	20	23	24	25	24	26	25	A	23	15.3	25.8	
25-Sep-07	24	25	28	29	27	26	25	23	24	28	30	31	33	32	34	34	33	34	32	26	24	A	34	38	29.2	38.1	
26-Sep-07	39	39	38	37	36	34	33	32	34	34	36	37	38	36	37	37	36	36	32	27	A	12	11	8	32.0	38.8	
27-Sep-07	13	14	16	20	21	14	17	18	21	24	21	23	27	30	28	34	36	35	38	A	35	30	33	28	25.1	37.7	
28-Sep-07	27	32	30	29	27	26	24	21	25	29	32	30	27	26	23	24	25	25	A	17	15	17	18	19	24.7	31.9	
29-Sep-07	20	18	18	15	10	6	7	11	15	18	20	22	23	25	29	31	31	A	23	12	8	6	6	6	16.5	31.0	
30-Sep-07	8	6	7	6	9	8	10	12	7	7	9	19	31	34	34	33	A	26	15	15	19	21	21	21	16.4	33.8	
Hourly Avg	20.6	19.7	19.8	17.8	15.5	13.9	11.5	12.4	15.6	20.3	24.2	27.0	29.5	30.7	31.2	31.4	30.9	29.2	26.4	20.9	19.9	19.9	20.3	20.8			
Hourly Max	38.8	38.6	38.2	37.1	36.1	33.6	32.5	32.4	33.5	33.9	35.8	37.1	45.8	54.9	57.9	55.2	51.6	43.7	40.7	39.8	42.3	44.6	42.1	39.1			

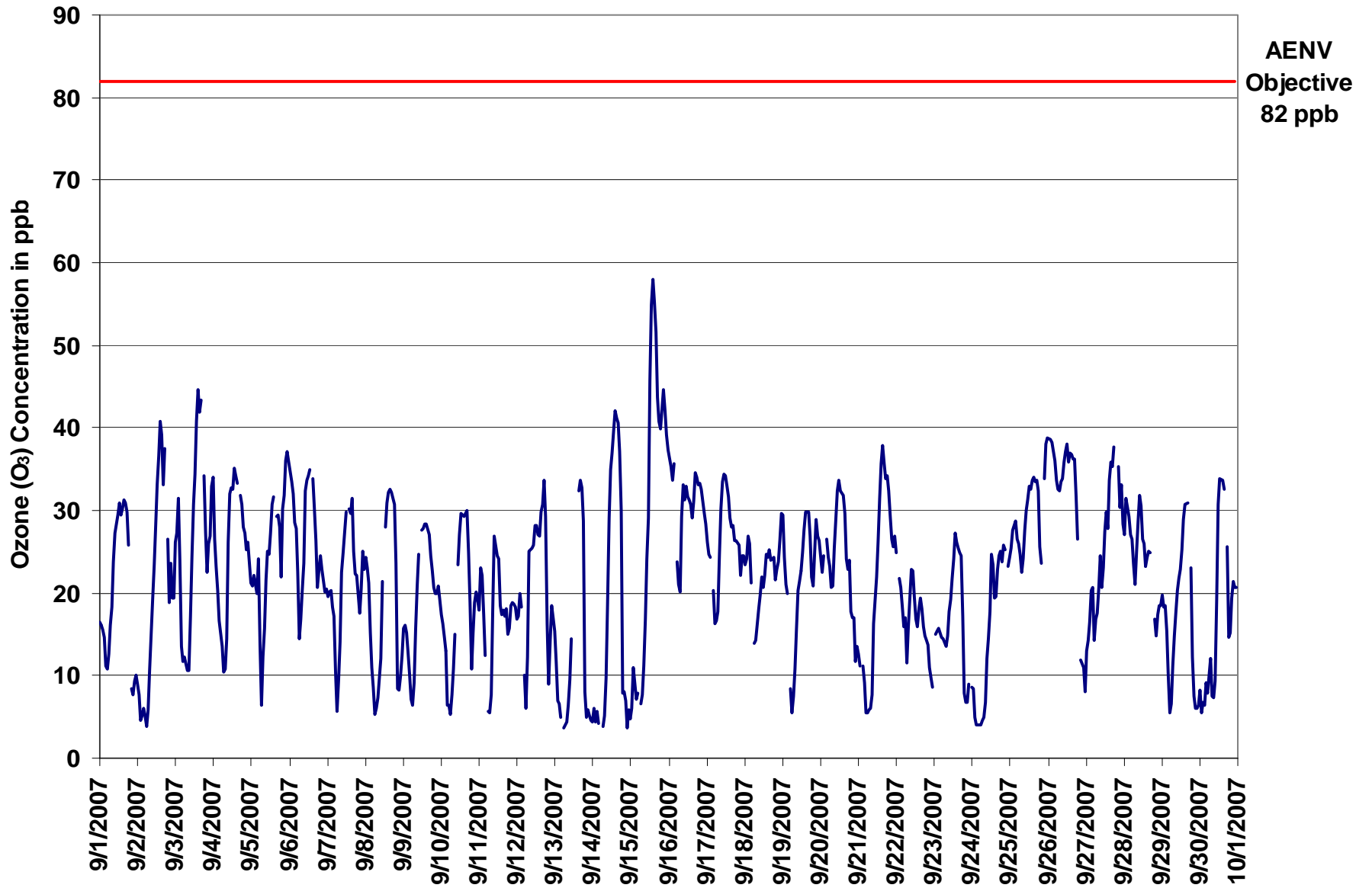


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

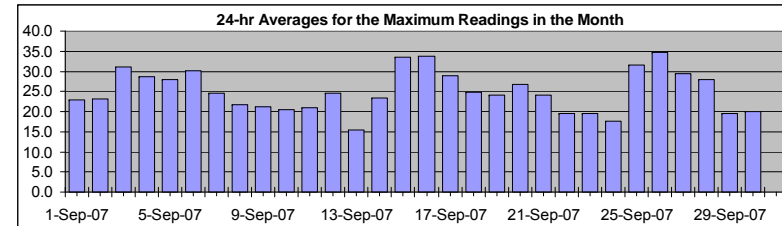
Ozone (O₃)

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

Summary

Maximum 1-hr Value:	60.4	ppb	15-Sep	14:00 15:00
Maximum 24-hr Value:	34.7	ppb	26-Sep	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.8	39.5	32.7	26.0	17.8	8.0	4.9	25.1 ppb	26.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Sep-07	18	17	17	16	13	15	17	18	21	28	30	32	33	32	34	34	34	32	29	A	14	11	19	13	22.9	34.3	
2-Sep-07	13	10	6	7	9	6	5	8	15	23	27	33	35	39	45	46	39	40	A	32	22	26	24	23	23.1	45.7	
3-Sep-07	31	32	34	33	16	16	18	13	12	24	28	36	39	44	47	49	46	A	39	30	28	28	36	37	31.1	48.8	
4-Sep-07	38	30	26	22	19	16	15	13	20	33	34	35	37	39	39	35	A	33	33	30	30	27	28	25	28.6	39.2	
5-Sep-07	23	24	24	22	29	23	7	17	21	25	28	27	32	34	36	A	33	32	31	26	33	33	43	39	27.9	42.8	
6-Sep-07	38	35	34	31	29	27	21	23	24	29	35	36	36	37	A	38	36	31	25	27	28	26	22	23	30.0	38.4	
7-Sep-07	22	22	23	19	20	16	7	13	18	26	26	29	32	A	33	34	34	32	26	27	25	25	29	26	24.6	34.1	
8-Sep-07	30	26	25	21	13	11	8	7	10	12	14	31	A	31	33	34	34	34	34	34	16	13	11	16	21.6	34.3	
9-Sep-07	18	17	17	14	12	8	8	14	19	24	28	A	30	30	30	30	29	27	24	23	22	21	22	21	21.2	30.0	
10-Sep-07	20	18	17	14	11	11	7	11	14	19	A	26	30	32	31	31	32	30	24	16	18	21	21	20	20.6	31.9	
11-Sep-07	23	25	24	21	15	A	10	9	10	31	32	30	30	22	22	22	21	20	18	19	19	22	21	20	21.0	31.9	
12-Sep-07	18	19	22	21	A	15	9	25	28	27	29	30	30	28	29	32	33	36	36	26	17	16	21	19	24.6	36.0	
13-Sep-07	17	15	9	9	7	A	4	5	9	12	19	C	C	C	C	35	35	35	34	18	7	9	7	7	15.4	35.4	
14-Sep-07	5	9	7	7	6	A	4	6	17	24	34	38	42	44	44	44	44	44	38	20	24	19	6	12	23.4	44.4	
15-Sep-07	8	11	14	9	11	A	8	10	15	19	29	34	54	59	60	58	57	48	46	44	46	46	44	41	33.6	60.4	
16-Sep-07	41	39	38	40	A	29	24	23	33	35	34	35	34	33	33	31	34	37	36	35	35	34	32	30	33.7	41.1	
17-Sep-07	28	27	27	A	25	19	21	25	28	34	35	36	36	35	34	32	31	30	28	28	28	26	27	26	29.0	35.9	
18-Sep-07	25	27	28	28	24	A	17	17	18	20	22	23	22	24	27	26	28	27	27	26	26	27	29	33	24.9	32.7	
19-Sep-07	31	31	23	22	A	11	7	10	13	19	22	23	23	26	30	33	33	32	24	22	31	30	28	29	24.1	33.2	
20-Sep-07	27	25	30	A	29	27	26	22	24	28	33	35	36	34	35	33	27	26	27	23	20	19	15	15	26.7	35.5	
21-Sep-07	16	13	A	14	12	8	8	7	7	11	20	25	30	36	38	41	39	39	37	36	32	29	28	28	24.0	40.6	
22-Sep-07	28	A	26	23	20	19	20	16	22	25	24	22	19	19	20	21	19	18	16	17	16	15	12	11	19.5	27.6	
23-Sep-07	A	17	17	17	17	16	16	15	16	20	21	24	29	29	27	27	26	26	24	13	10	9	13	A	19.5	29.1	
24-Sep-07	10	10	8	5	4	5	5	6	9	15	18	20	28	31	25	24	26	27	28	27	27	26	A	24	17.7	30.6	
25-Sep-07	26	27	30	30	29	27	27	25	27	30	32	33	34	35	36	36	36	36	36	36	29	28	A	36	40	31.5	39.5
26-Sep-07	39	39	39	38	37	36	35	34	35	36	38	39	40	39	39	39	39	39	36	33	A	19	17	13	34.7	39.9	
27-Sep-07	16	19	20	23	23	20	20	20	24	28	28	27	29	32	33	38	40	40	48	A	43	36	36	34	29.4	47.6	
28-Sep-07	32	34	32	32	33	34	30	28	28	33	34	33	28	28	26	27	28	27	A	20	17	19	20	20	27.9	34.4	
29-Sep-07	21	20	19	18	13	8	10	15	16	20	22	23	24	27	31	33	36	A	28	21	13	8	9	13	19.4	35.6	
30-Sep-07	13	10	9	8	11	13	14	14	9	10	12	28	34	35	36	34	A	31	22	23	22	24	24	24	19.9	35.7	
Hourly Avg	23.2	22.3	22.2	20.2	18.1	17.5	14.3	15.6	18.8	23.9	27.1	30.0	32.3	33.3	33.9	34.3	33.9	32.5	30.4	25.8	24.0	22.9	23.5	23.5			
Hourly Max	41.1	39.2	39.2	40.1	36.9	36.3	35.3	34.3	35.3	35.6	38.4	39.0	54.4	58.8	60.4	58.1	56.9	48.4	47.6	43.6	45.7	45.7	44.3	41.3			

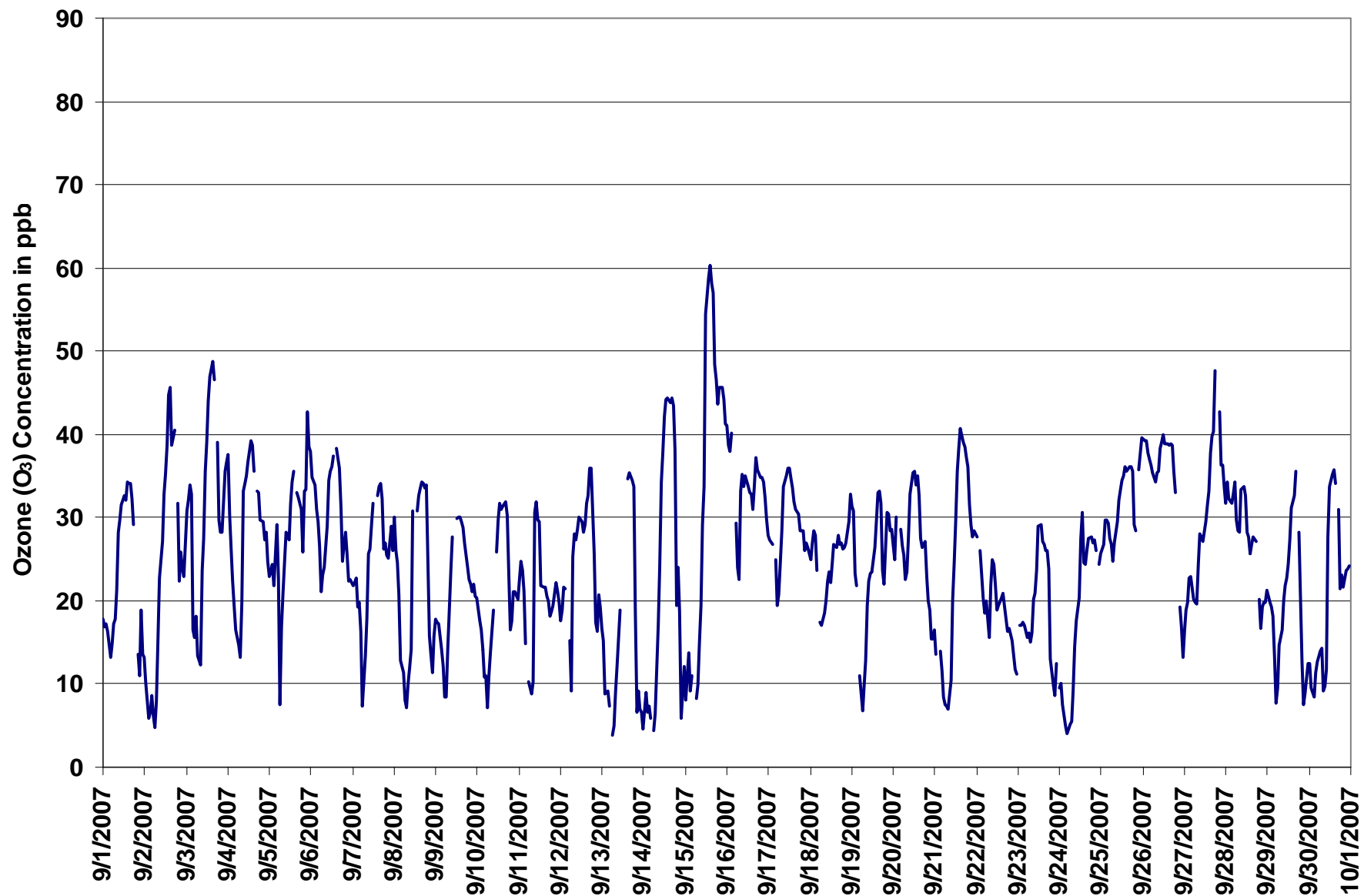


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	106
10	to	20	172
20	to	41	393
41	to	65	14
65	to	82	0
	>	82	0
Total Non-Zero Values			685

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

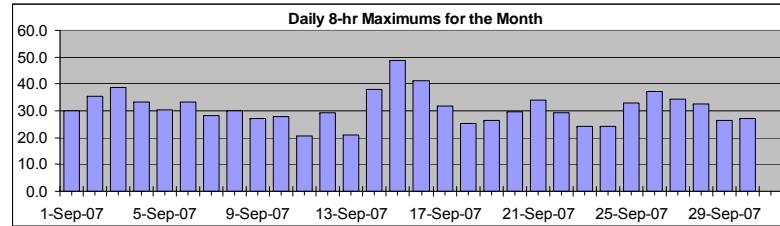
Ozone (O₃)

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

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	48.7	ppb	15-Sep	19:00	20:00		

Percentile	99	95	75	50	25	5	1
	41.9	34.9	27.4	22.6	16.4	7.5	5.5



Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1-Sep-07	26	24	22	21	18	16	15	14	14	15	17	19	21	24	26	28	29	30	30	30	27	23	20	17	29.9
2-Sep-07	14	11	8	8	7	7	6	6	6	8	10	13	16	20	25	29	32	34	35	35	33	31	28	25	35.5
3-Sep-07	24	23	24	24	23	22	21	20	18	16	16	16	19	23	27	31	35	37	39	38	36	34	32	30	38.6
4-Sep-07	29	29	27	27	26	24	22	19	17	17	18	20	22	24	27	30	32	33	33	32	31	30	29	28	33.1
5-Sep-07	27	25	24	23	23	21	19	18	17	17	17	18	18	20	24	25	27	28	29	28	29	29	30	30	30.5
6-Sep-07	31	32	32	33	33	32	29	26	25	23	23	24	25	26	28	30	32	32	31	29	28	26	25	24	33.1
7-Sep-07	22	21	21	21	20	18	17	15	14	15	15	16	18	19	23	25	28	28	28	27	25	25	24	23	28.3
8-Sep-07	22	22	22	21	20	19	16	14	12	11	9	10	10	13	16	20	24	27	30	30	27	25	22	20	30.0
9-Sep-07	18	16	14	12	13	12	12	12	12	12	13	13	16	19	22	25	26	27	27	26	25	24	23	22	26.9
10-Sep-07	21	20	19	18	16	14	12	11	10	10	9	11	14	17	20	24	26	28	27	25	24	22	21	20	27.7
11-Sep-07	18	18	18	19	19	19	17	15	13	13	13	14	16	16	18	19	21	21	19	18	17	17	17	18	20.6
12-Sep-07	17	17	18	18	18	17	15	14	16	17	18	19	20	22	25	27	28	29	29	28	25	24	23	21	29.2
13-Sep-07	19	16	14	12	12	12	9	8	6	6	7	N	N	N	N	N	N	N	N	N	21	19	15	20.9	
14-Sep-07	12	8	5	5	5	5	5	5	6	7	11	15	20	22	27	32	35	38	38	34	31	27	22	18	37.8
15-Sep-07	13	9	7	7	7	7	7	7	8	10	12	15	20	25	31	37	42	45	47	49	48	47	45	43	48.7
16-Sep-07	41	40	39	39	38	35	32	30	28	28	28	27	28	29	30	31	31	32	32	32	32	32	32	32	41.2
17-Sep-07	31	30	29	28	27	24	22	21	21	21	23	24	26	28	30	31	32	31	31	30	29	27	26	26	31.7
18-Sep-07	25	25	25	25	24	24	23	21	20	19	18	18	18	18	20	21	22	23	23	23	24	24	24	25	25.2
19-Sep-07	25	25	25	25	25	23	20	17	14	13	13	13	14	16	19	22	24	25	26	26	26	26	26	26	26.4
20-Sep-07	25	25	25	25	26	25	25	24	23	24	24	25	26	27	28	29	30	29	29	27	25	23	21	19	29.8
21-Sep-07	17	16	14	13	12	11	10	9	8	7	8	10	12	15	19	23	27	30	32	33	34	33	32	31	33.8
22-Sep-07	29	29	27	25	24	22	21	19	17	18	18	18	18	18	18	19	19	18	17	17	16	16	15	13	29.2
23-Sep-07	13	12	13	13	13	13	14	15	15	15	16	16	18	19	21	22	23	24	24	22	20	17	15	14	24.2
24-Sep-07	12	9	7	7	7	6	6	5	5	6	7	9	11	14	15	17	19	21	22	23	23	23	24	24	24.4
25-Sep-07	25	25	25	26	26	26	26	26	26	26	26	27	27	28	29	31	32	33	33	32	31	31	31	32	33.0
26-Sep-07	32	33	34	35	37	37	37	36	35	35	34	34	35	35	35	36	36	37	36	35	34	31	27	23	37.2
27-Sep-07	20	17	14	14	14	15	15	17	18	19	19	20	21	23	24	26	28	29	31	32	34	34	34	34	34.5
28-Sep-07	32	32	31	31	30	29	28	27	27	26	27	27	27	27	27	27	27	27	26	24	22	21	20	19	32.4
29-Sep-07	19	18	18	18	17	16	14	13	13	12	13	13	15	18	20	23	25	26	26	25	23	20	17	13	26.2
30-Sep-07	10	9	7	7	7	7	8	8	8	8	9	10	13	16	19	22	24	26	27	27	25	23	21	20	27.2

Hourly Max 41.2 40.2 39.3 38.8 38.2 36.8 36.6 35.9 35.3 34.7 34.4 34.4 34.6 34.9 35.5 36.9 42.0 45.3 47.4 48.7 48.3 47.0 45.0 43.0

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

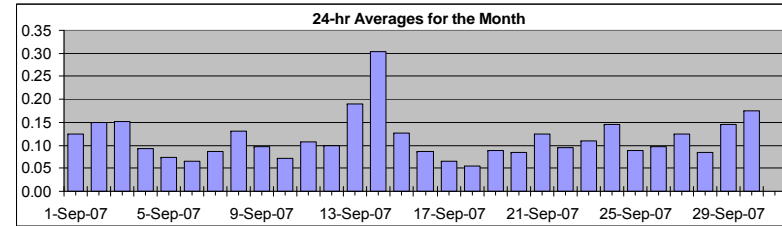
Monitoring Dates: September 1, 2007 to October 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	1.2	ppm	14-Sep	21:00 22:00
Maximum 24-hr Value:	0.3	ppm	14-Sep	

AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	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	0:00		
1-Sep-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	A	0.2	0.3	0.3	0.2	0.12	0.30	
2-Sep-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	A	0.2	0.3	0.2	0.2	0.2	0.15	0.26	
3-Sep-07	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.1	0.15	0.22		
4-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.09	0.18	
5-Sep-07	0.1	0.1	0.1	0.0	0.0	0.1	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	0.1	0.1	0.07	0.16	
6-Sep-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	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.07	0.12	
7-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.09	0.21	
8-Sep-07	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	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.13	0.36	
9-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	0.10	0.16	
10-Sep-07	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	A	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.07	0.16	
11-Sep-07	0.0	0.0	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.22	
12-Sep-07	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.10	0.26	
13-Sep-07	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	C	C	A	0.1	0.1	0.4	0.4	0.5	0.3	0.4	0.19	0.45	
14-Sep-07	0.4	0.2	0.1	0.1	0.1	A	0.2	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	1.0	1.2	0.7	0.6	0.30	1.17	
15-Sep-07	0.4	0.3	0.2	0.2	0.1	A	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	0.13	0.43	
16-Sep-07	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	0.1	0.09	0.12	
17-Sep-07	0.1	0.1	0.1	A	0.0	0.1	0.1	0.1	0.1	0.0	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.07	0.09	
18-Sep-07	0.1	0.1	0.0	0.0	0.0	A	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.06	0.07	
19-Sep-07	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.09	0.21	
20-Sep-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	0.08	0.12	
21-Sep-07	0.1	0.1	A	0.1	0.1	0.2	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	0.12	0.28	
22-Sep-07	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	0.2	0.10	0.16	
23-Sep-07	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	0.4	0.2	0.2	A	0.11	0.36	
24-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.5	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	0.15	0.63	
25-Sep-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	A	0.1	0.1	0.09	0.14	
26-Sep-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	0.2	0.3	0.3	0.10	0.28	
27-Sep-07	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.12	0.22	
28-Sep-07	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	A	0.1	0.1	0.1	0.1	0.08	0.15	
29-Sep-07	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.5	0.5	0.3	0.15	0.49	
30-Sep-07	0.2	0.3	0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	A	0.1	0.3	0.3	0.2	0.1	0.2	0.1	0.17	0.30	
Hourly Avg	0.11	0.10	0.09	0.09	0.09	0.11	0.15	0.16	0.13	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.09	0.09	0.11	0.16	0.18	0.18	0.15	0.14			
Hourly Max	0.43	0.31	0.20	0.25	0.19	0.23	0.63	0.50	0.30	0.21	0.30	0.20	0.13	0.12	0.15	0.16	0.14	0.13	0.28	0.56	1.00	1.17	0.67	0.60			

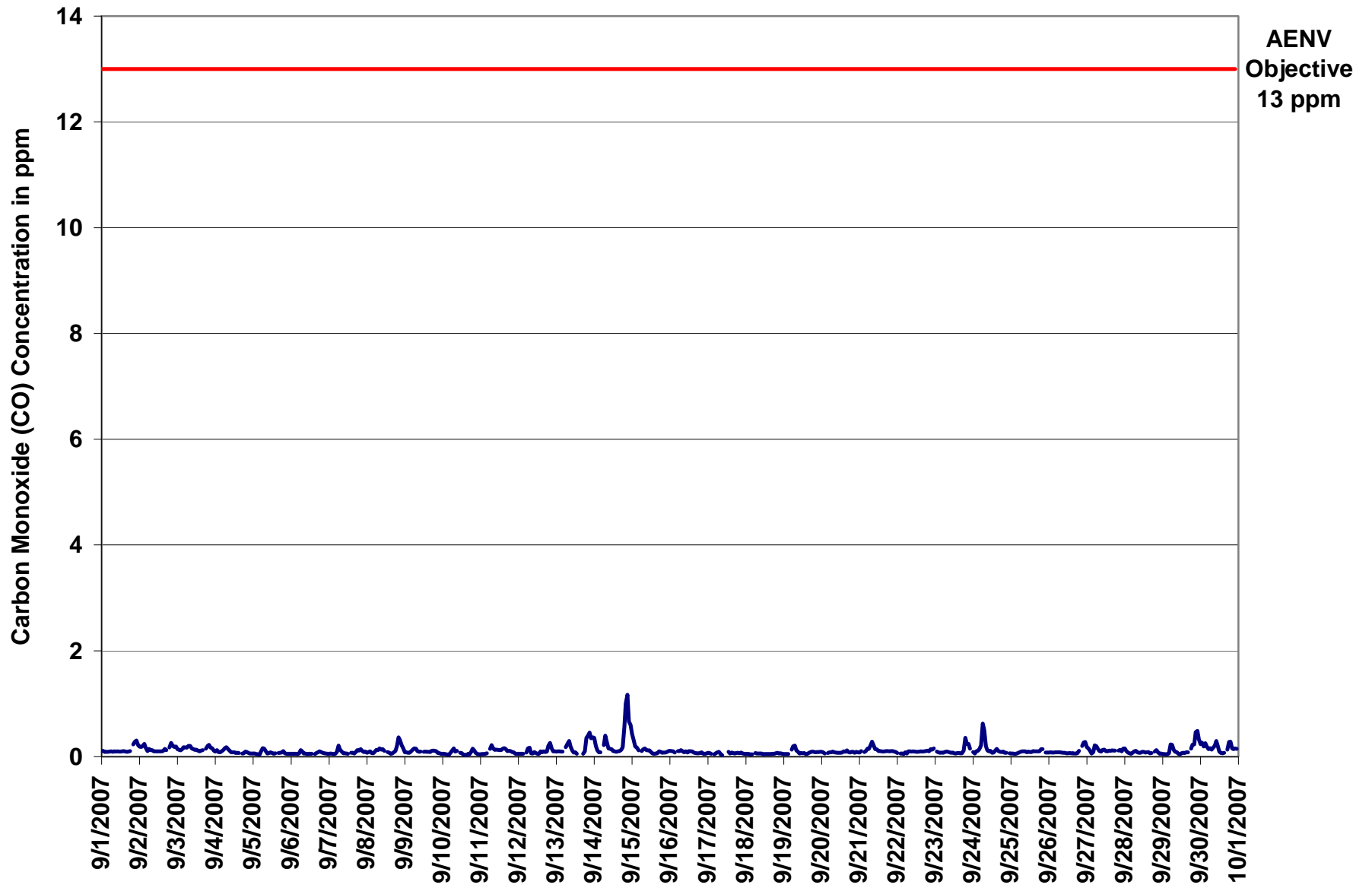


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

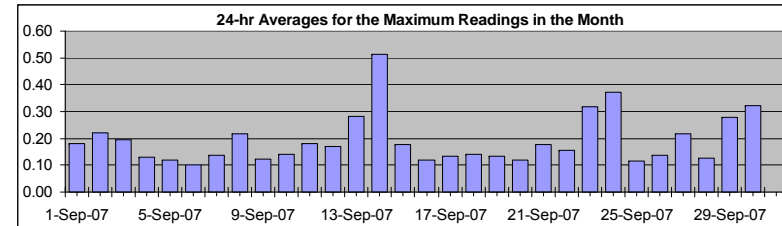
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

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

Summary

Maximum 1-hr Value:	4.7	ppm	24-Sep	6:00 7:00
Maximum 24-hr Value:	0.5	ppm	14-Sep	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.5	0.2	0.1	0.1	0.1	0.1	0.2 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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	A	0.3	0.9	0.4	0.3	0.18	0.91	
2-Sep-07	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.3	0.4	0.3	0.3	0.3	0.22	0.39	
3-Sep-07	0.2	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	0.2	A	0.2	0.3	0.3	0.2	0.2	0.1	0.20	0.32	
4-Sep-07	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.22	
5-Sep-07	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.12	0.26	
6-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.10	0.26	
7-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.14	0.36	
8-Sep-07	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.1	0.1	0.2	0.6	0.5	0.4	0.4	0.3	0.22	0.60	
9-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	0.12	0.20	
10-Sep-07	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.3	0.2	0.1	A	0.1	0.1	0.6	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.14	0.61	
11-Sep-07	0.1	0.1	0.1	0.1	0.1	A	0.3	0.6	0.2	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.18	0.55	
12-Sep-07	0.1	0.1	0.1	0.1	A	0.3	0.3	0.3	0.3	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.2	0.2	0.17	0.41	
13-Sep-07	0.1	0.1	0.1	0.1	0.1	A	0.3	0.3	0.4	0.2	0.2	0.1	0.1	0.1	C	C	A	0.1	0.2	0.5	0.5	0.5	0.4	0.28	1.13	
14-Sep-07	0.5	0.3	0.2	0.2	0.4	A	0.4	0.6	0.4	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.3	1.2	1.5	2.7	1.0	0.51	2.72	
15-Sep-07	0.7	0.4	0.3	0.3	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.18	0.72	
16-Sep-07	0.2	0.1	0.1	0.1	A	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	0.12	0.21	
17-Sep-07	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	C	C	C	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.13	0.56	
18-Sep-07	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.3	0.2	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.14	0.56	
19-Sep-07	0.1	0.1	0.1	0.1	A	0.3	0.4	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	0.1	0.1	0.1	0.13	0.40	
20-Sep-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	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.12	0.22	
21-Sep-07	0.1	0.2	A	0.1	0.2	0.3	0.2	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.18	0.45	
22-Sep-07	0.2	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.7	0.2	0.16	0.71	
23-Sep-07	A	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	3.6	0.3	0.3	0.2	A	0.32	3.62
24-Sep-07	0.1	0.1	0.1	0.2	0.2	0.3	4.7	0.7	0.3	0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.1	A	0.1	0.37	4.72	
25-Sep-07	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	0.2	0.1	0.1	0.1	0.2	0.2	0.2	A	0.1	0.12	0.19	
26-Sep-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	A	0.3	0.6	0.14	0.55	
27-Sep-07	0.3	0.2	0.2	0.1	0.2	0.9	0.3	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.22	0.89	
28-Sep-07	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.13	0.25	
29-Sep-07	0.1	0.1	0.1	0.0	0.2	0.5	0.5	0.2	0.2	0.5	0.2	0.1	0.3	0.1	0.1	0.2	0.1	A	0.3	0.4	0.4	0.7	0.7	0.28	0.72	
30-Sep-07	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.6	0.3	0.2	0.1	0.1	0.2	A	0.3	0.5	1.0	0.2	0.3	0.6	0.32	0.97	
Hourly Avg	0.16	0.14	0.11	0.12	0.14	0.21	0.39	0.26	0.20	0.16	0.17	0.14	0.12	0.16	0.12	0.12	0.12	0.14	0.18	0.38	0.26	0.33	0.24	0.21		
Hourly Max	0.72	0.41	0.30	0.36	0.36	0.89	4.72	0.65	0.45	0.50	0.56	0.34	0.28	0.61	0.22	0.25	0.20	0.30	0.60	3.62	1.48	2.72	1.02	1.13		

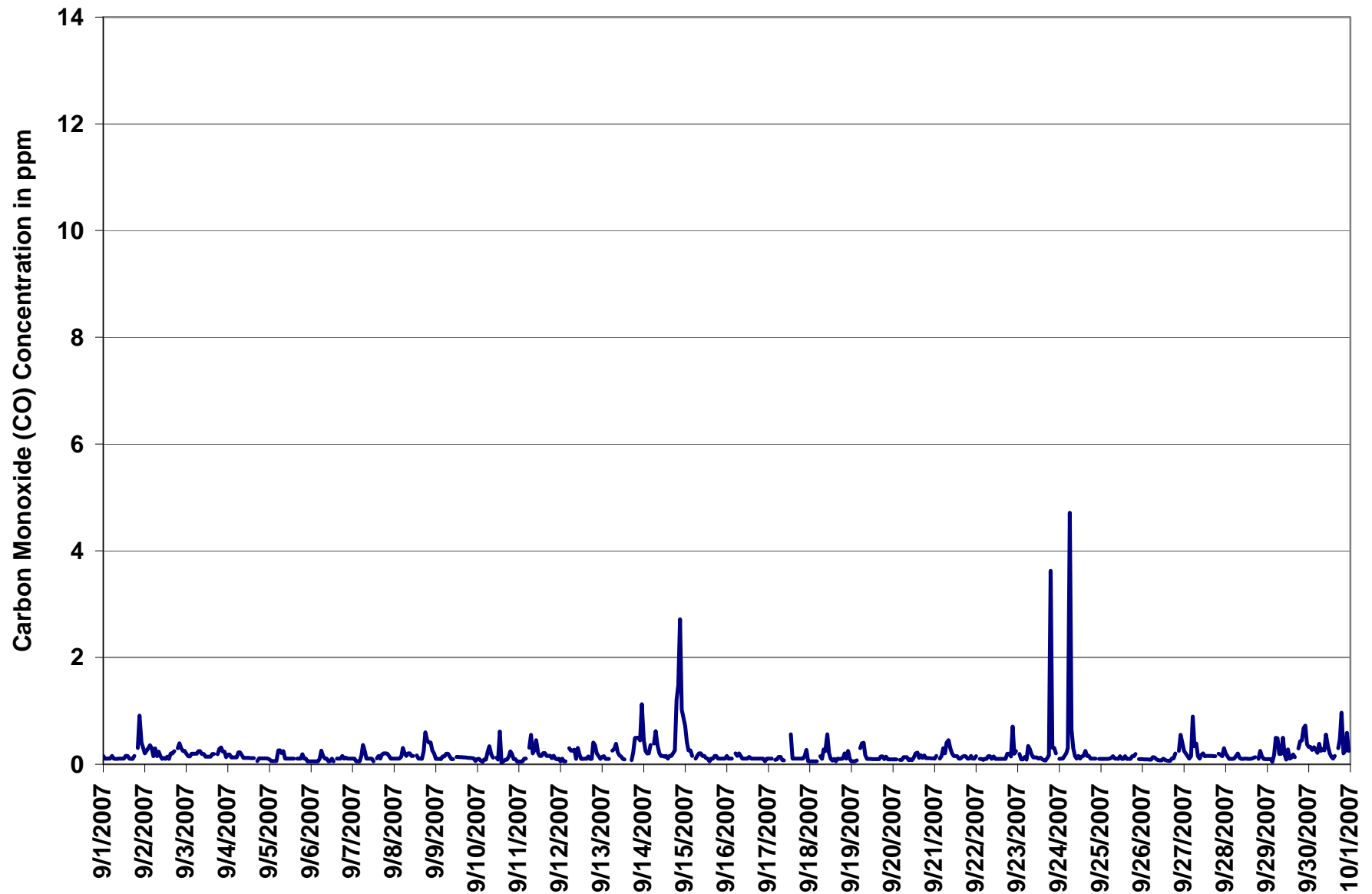
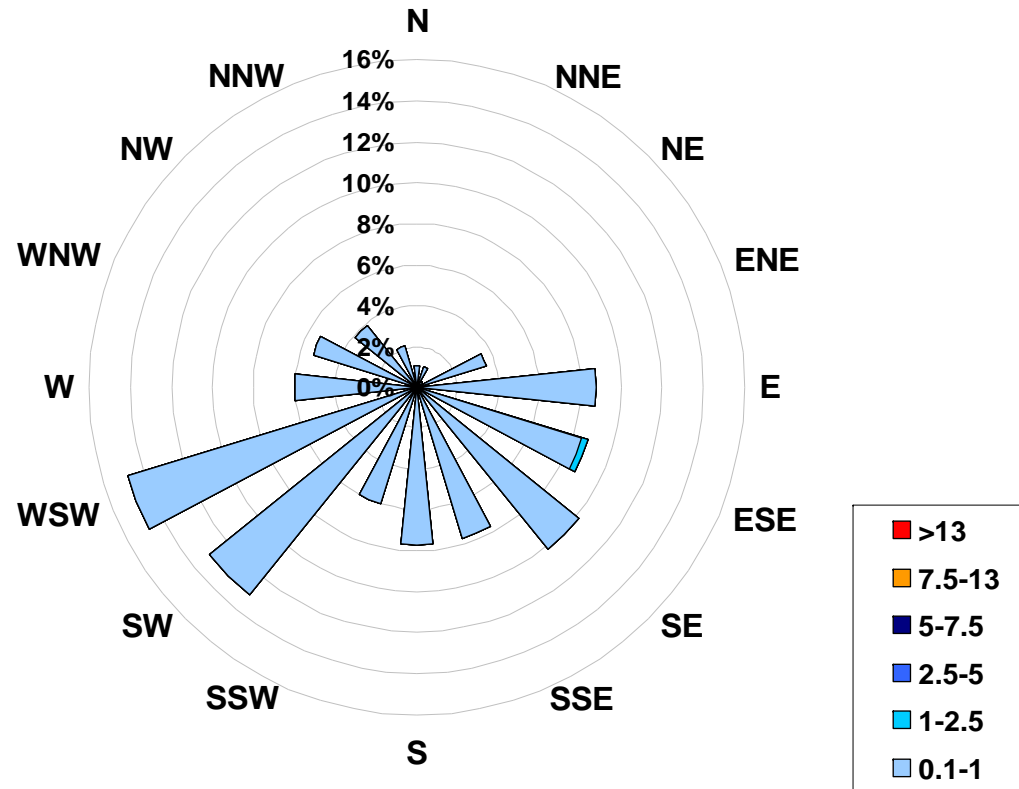


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of CO in ppm Range			Frequency (hrs)
0.1	<	1	681
1	to	2.5	1
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			683

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

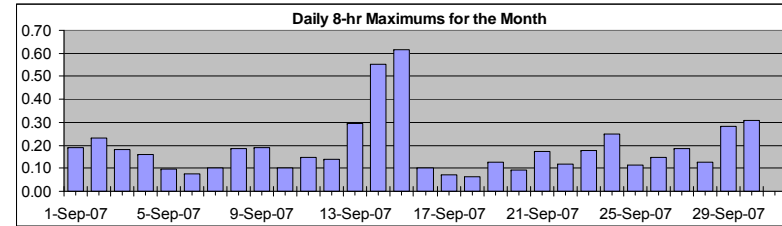
Carbon Monoxide (CO)

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

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.6	ppm	15-Sep	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-Sep-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	0.2	0.2	0.19	
2-Sep-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.23	
3-Sep-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.18	
4-Sep-07	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	0.1	0.16	
5-Sep-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	0.10	
6-Sep-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	0.08	
7-Sep-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	0.10	
8-Sep-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	0.2	0.2	0.2	0.19	
9-Sep-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	0.19	
10-Sep-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	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.10	
11-Sep-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	
12-Sep-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	
13-Sep-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	0.2	N	N	N	N	N	N	N	N	0.3	0.29	
14-Sep-07	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.55
15-Sep-07	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.61	
16-Sep-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	0.10	
17-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.07	
18-Sep-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	0.06	
19-Sep-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	
20-Sep-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	0.09	
21-Sep-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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	
22-Sep-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	
23-Sep-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	0.2	0.2	0.2	0.18	
24-Sep-07	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	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	0.25	
25-Sep-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	
26-Sep-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	
27-Sep-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
28-Sep-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	
29-Sep-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	0.2	0.2	0.3	0.28	
30-Sep-07	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.31	

Hourly Max	0.59	0.61	0.61	0.57	0.46	0.35	0.27	0.23	0.24	0.25	0.25	0.25	0.24	0.23	0.18	0.15	0.14	0.13	0.13	0.17	0.28	0.42	0.49	0.55
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PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

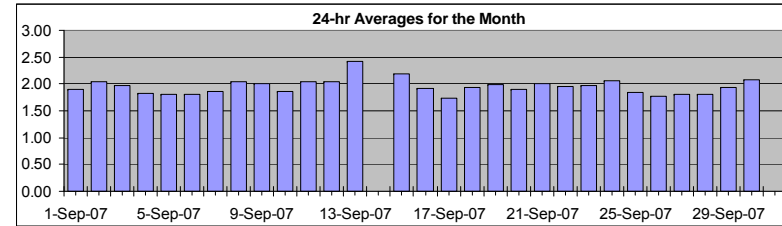
Total Hydrocarbons (THC)

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

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

Maximum 1-hr Average:	3.3	ppm	14-Sep	21:00 22:00
Maximum 24-hr Value:	2.4	ppm	13-Sep	

AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	2.4	2.0	1.9	1.8	1.7	1.6	2.0 ppm	1.9 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Sep-07	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.9	A	2.1	2.1	2.3	2.2	1.89	2.32
2-Sep-07	2.3	2.2	2.4	2.3	2.4	2.3	2.3	2.2	2.0	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.03	2.44
3-Sep-07	1.9	1.9	1.9	1.9	2.0	2.1	2.3	2.3	2.3	2.0	1.9	1.8	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.97	2.32
4-Sep-07	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	A	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.82	1.91
5-Sep-07	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.7	1.7	1.8	1.8	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.80	1.88
6-Sep-07	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.81	1.88
7-Sep-07	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	A	1.9	2.0	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.87	2.00
8-Sep-07	1.9	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.9	2.0	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.7	2.5	2.04	2.70	
9-Sep-07	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.0	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.00	2.17
10-Sep-07	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.8	A	1.9	2.0	2.0	1.7	1.7	1.6	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.86	2.04
11-Sep-07	2.0	1.9	1.9	2.0	2.2	A	2.2	2.1	2.3	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.04	2.31
12-Sep-07	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.0	2.1	2.2	2.1	2.1	2.0	2.0	2.05	2.32	
13-Sep-07	2.1	2.2	2.4	2.3	2.5	A	2.9	3.0	2.7	2.6	2.6	2.4	2.5	2.4	2.4	2.3	2.3	2.1	2.1	2.2	2.2	2.4	2.3	2.8	2.42	3.01	
14-Sep-07	2.7	2.4	2.6	2.4	2.5	A	2.4	2.3	2.5	M	M	M	M	M	M	M	M	M	A	2.5	2.8	3.3	2.9	2.8	N	3.33	
15-Sep-07	2.6	2.7	2.3	2.9	2.9	A	2.4	2.5	2.2	2.1	2.1	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.18	2.90	
16-Sep-07	1.9	1.9	1.9	1.8	A	2.0	2.2	2.1	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.92	2.21	
17-Sep-07	2.0	2.0	2.1	A	2.0	2.0	1.9	1.8	C	C	C	1.6	1.7	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.74	2.06	
18-Sep-07	1.8	1.8	1.8	1.8	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	1.9	1.94	2.07	
19-Sep-07	1.9	2.0	2.0	2.0	A	2.2	2.2	2.1	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.99	2.16	
20-Sep-07	1.9	1.9	1.9	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	1.89	2.10	
21-Sep-07	2.2	2.1	A	2.2	2.0	2.0	2.0	2.1	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.9	2.00	2.24	
22-Sep-07	2.0	A	2.1	2.1	2.1	2.0	2.1	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.96	2.12	
23-Sep-07	A	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.1	2.1	2.2	2.3	A	1.97	2.30	
24-Sep-07	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.1	1.9	1.9	1.9	1.9	1.8	A	1.9	2.07	2.42
25-Sep-07	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	1.8	1.7	1.84	2.00	
26-Sep-07	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	A	2.2	2.1	2.1	1.77	2.16	
27-Sep-07	2.0	2.1	2.0	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	A	1.8	1.9	1.8	1.9	1.81	2.06	
28-Sep-07	2.0	2.0	1.9	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.8	1.9	1.8	1.8	1.8	1.81	2.01	
29-Sep-07	1.8	1.9	1.8	1.9	2.0	2.2	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.9	2.0	2.1	2.3	2.3	2.5	1.94	2.45	
30-Sep-07	2.5	2.6	2.6	2.8	2.4	2.2	2.1	2.0	2.1	2.1	2.1	1.9	1.8	1.8	1.8	1.8	A	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.08	2.79	
Hourly Avg	2.02	2.01	2.01	2.02	2.04	1.96	2.03	2.02	1.98	1.90	1.89	1.87	1.88	1.90	1.90	1.91	1.92	1.90	1.91	1.97	1.98	2.03	2.03	2.01			
Hourly Max	2.70	2.71	2.63	2.90	2.90	2.40	2.91	3.01	2.73	2.57	2.56	2.43	2.45	2.40	2.36	2.35	2.32	2.12	2.10	2.49	2.76	3.33	2.94	2.83			

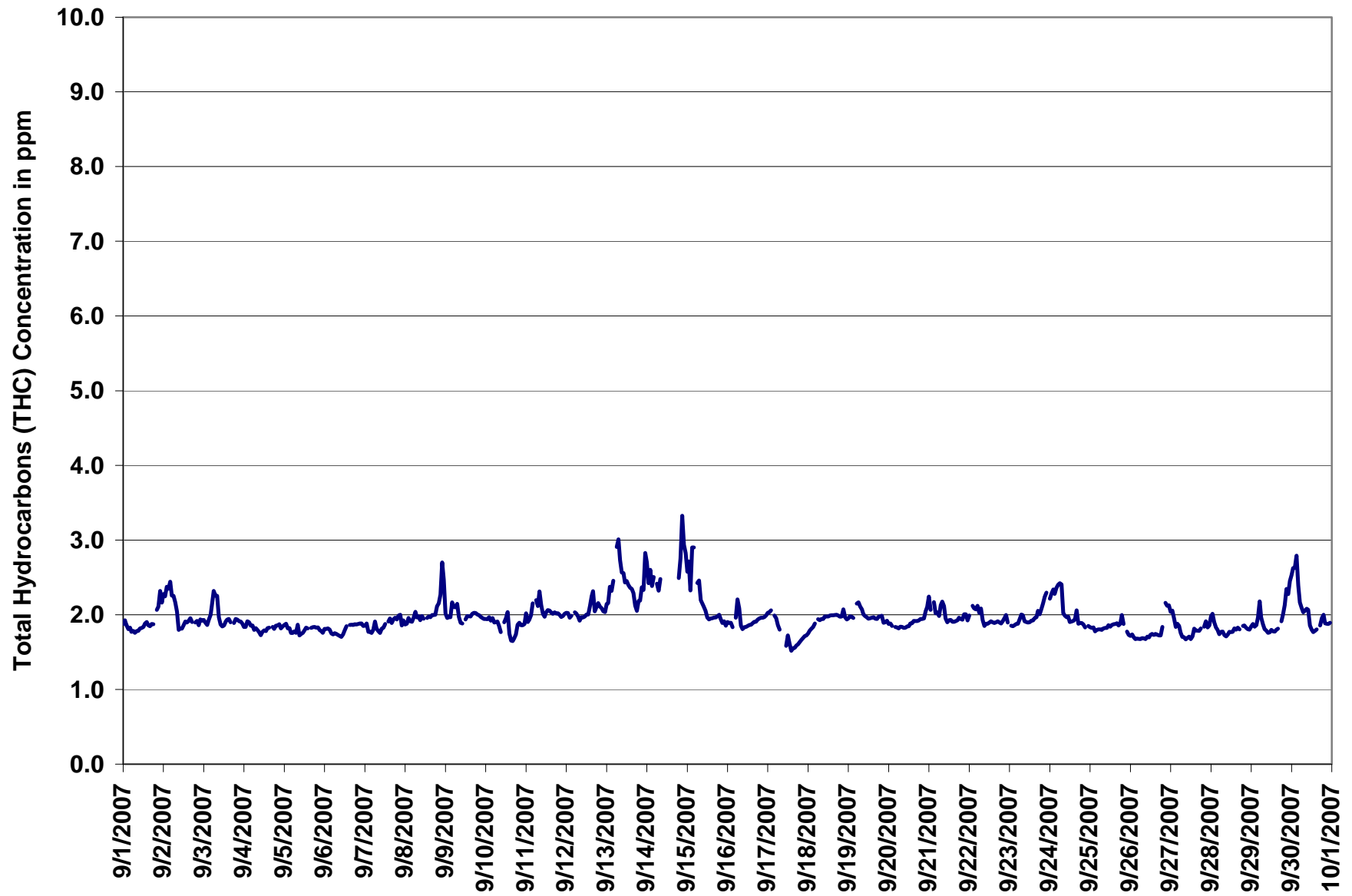


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

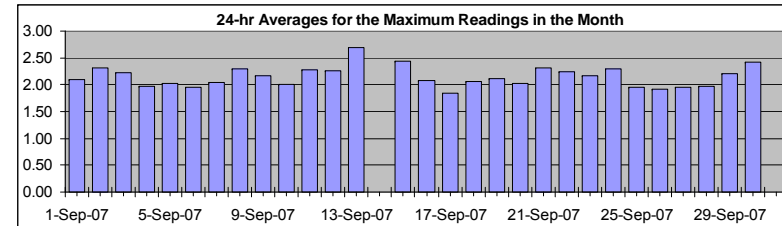
Total Hydrocarbons (THC)

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

Summary

Maximum 1-hr Value:	4.7	ppm	15-Sep	1:00 2:00
Maximum 24-hr Value:	2.7	ppm	13-Sep	

AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	3.0	2.2	2.1	2.0	1.8	1.7	2.2 ppm	2.1 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Sep-07	2.0	2.1	2.0	2.0	2.2	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.3	2.5	2.8	2.8	2.10	2.79	
2-Sep-07	3.1	2.5	3.2	2.7	2.7	2.6	2.4	2.3	2.3	2.0	2.0	2.0	2.1	2.1	2.1	2.1	A	2.4	2.1	2.2	2.4	2.1	2.1	2.32	3.20	
3-Sep-07	2.2	2.1	2.2	2.5	2.5	2.4	2.8	2.7	2.7	2.2	2.0	2.0	2.1	2.1	2.1	A	2.0	2.1	2.1	2.3	2.1	2.0	2.23	2.84		
4-Sep-07	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	1.9	2.0	2.0	2.0	2.0	1.97	2.06		
5-Sep-07	2.0	2.0	2.0	2.5	2.3	1.9	1.9	1.9	2.6	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.02	2.64		
6-Sep-07	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	1.96	2.08		
7-Sep-07	2.0	2.0	2.0	1.9	1.9	2.0	2.2	2.0	1.9	1.9	2.0	2.0	A	2.1	2.1	2.0	2.2	2.2	2.3	2.2	2.2	2.0	2.1	2.05	2.32	
8-Sep-07	2.1	2.0	2.4	2.1	2.0	2.2	2.2	2.1	2.1	2.1	2.2	2.2	A	2.1	2.1	2.1	2.1	2.4	3.0	2.3	2.6	3.2	3.0	2.29	3.19	
9-Sep-07	2.2	2.1	2.2	2.1	2.3	2.3	2.3	2.4	2.2	2.0	2.0	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.16	2.38	
10-Sep-07	2.1	2.1	2.3	2.1	2.1	2.0	2.1	2.0	2.0	A	2.0	2.1	2.2	2.0	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.01	2.26	
11-Sep-07	2.2	2.0	2.1	2.3	2.5	A	3.6	2.3	3.0	2.3	2.5	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.28	3.55	
12-Sep-07	2.1	2.1	2.1	2.1	A	2.2	2.1	2.1	2.7	2.4	2.1	2.1	2.1	2.1	2.2	2.5	2.5	2.2	2.5	2.5	2.4	2.4	2.2	2.26	2.70	
13-Sep-07	2.3	2.4	2.7	2.8	2.8	A	3.3	3.3	3.0	2.8	2.9	2.6	2.6	2.5	2.5	2.5	2.4	2.2	2.4	2.3	3.1	2.6	3.3	2.69	3.34	
14-Sep-07	3.1	2.7	3.0	2.5	2.8	A	3.2	2.6	3.3	M	M	M	M	M	M	M	M	A	2.9	3.6	4.1	4.0	3.2	N	4.10	
15-Sep-07	2.8	4.7	2.5	3.6	3.4	A	2.6	2.8	2.5	2.3	2.3	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	2.44	4.72	
16-Sep-07	2.0	2.0	2.0	2.0	A	2.6	2.7	2.5	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.07	2.72	
17-Sep-07	2.1	2.1	2.2	A	2.1	2.0	2.0	1.9	C	C	C	1.7	2.0	1.9	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.85	2.16	
18-Sep-07	1.8	1.9	1.9	1.9	2.0	A	2.0	2.0	2.0	2.1	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.1	2.07	2.61	
19-Sep-07	2.0	2.1	2.0	2.0	A	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.2	2.1	2.1	2.1	2.1	2.2	2.4	2.0	2.1	2.12	2.37	
20-Sep-07	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.3	3.1	2.03	3.13	
21-Sep-07	3.9	2.7	A	2.7	2.1	2.2	2.1	2.7	2.5	2.6	2.1	2.1	2.2	2.2	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.32	3.92	
22-Sep-07	2.3	A	2.9	2.6	2.3	2.6	2.6	3.0	2.1	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	3.2	2.0	2.24	3.22	
23-Sep-07	A	1.9	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.5	2.2	2.5	2.5	3.0	2.7	A	2.16	2.95	
24-Sep-07	2.3	2.5	2.5	2.4	2.4	3.2	2.9	2.9	2.2	2.1	2.1	2.1	2.0	2.1	2.1	3.0	2.1	2.0	2.0	2.0	1.9	A	2.0	2.30	3.18	
25-Sep-07	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	1.9	2.0	2.5	2.0	A	1.9	1.8	1.95	2.49	
26-Sep-07	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	A	2.7	2.4	2.7	1.91	2.73	
27-Sep-07	2.2	2.2	2.1	1.9	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	A	2.6	2.1	2.0	2.0	1.95	2.58	
28-Sep-07	2.4	2.7	2.2	1.9	1.9	1.9	1.9	2.1	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	1.9	1.9	1.9	1.97	2.72	
29-Sep-07	2.0	2.0	2.0	2.1	2.3	2.5	2.3	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.1	2.4	2.8	2.6	2.6	4.4	2.21	4.37	
30-Sep-07	4.0	3.2	3.8	3.6	3.6	2.6	2.2	2.2	2.3	2.3	2.2	2.0	2.0	1.9	1.9	A	2.0	2.1	2.2	2.0	2.0	2.0	2.0	2.43	3.97	
Hourly Avg	2.32	2.27	2.26	2.28	2.29	2.19	2.30	2.24	2.23	2.06	2.05	2.00	2.01	2.02	2.03	2.03	2.07	2.04	2.06	2.21	2.20	2.29	2.30	2.30		
Hourly Max	3.97	4.72	3.76	3.59	3.60	3.18	3.55	3.25	3.33	2.78	2.92	2.64	2.64	2.62	2.52	2.48	3.01	2.51	2.46	3.00	3.61	4.10	3.97	4.37		

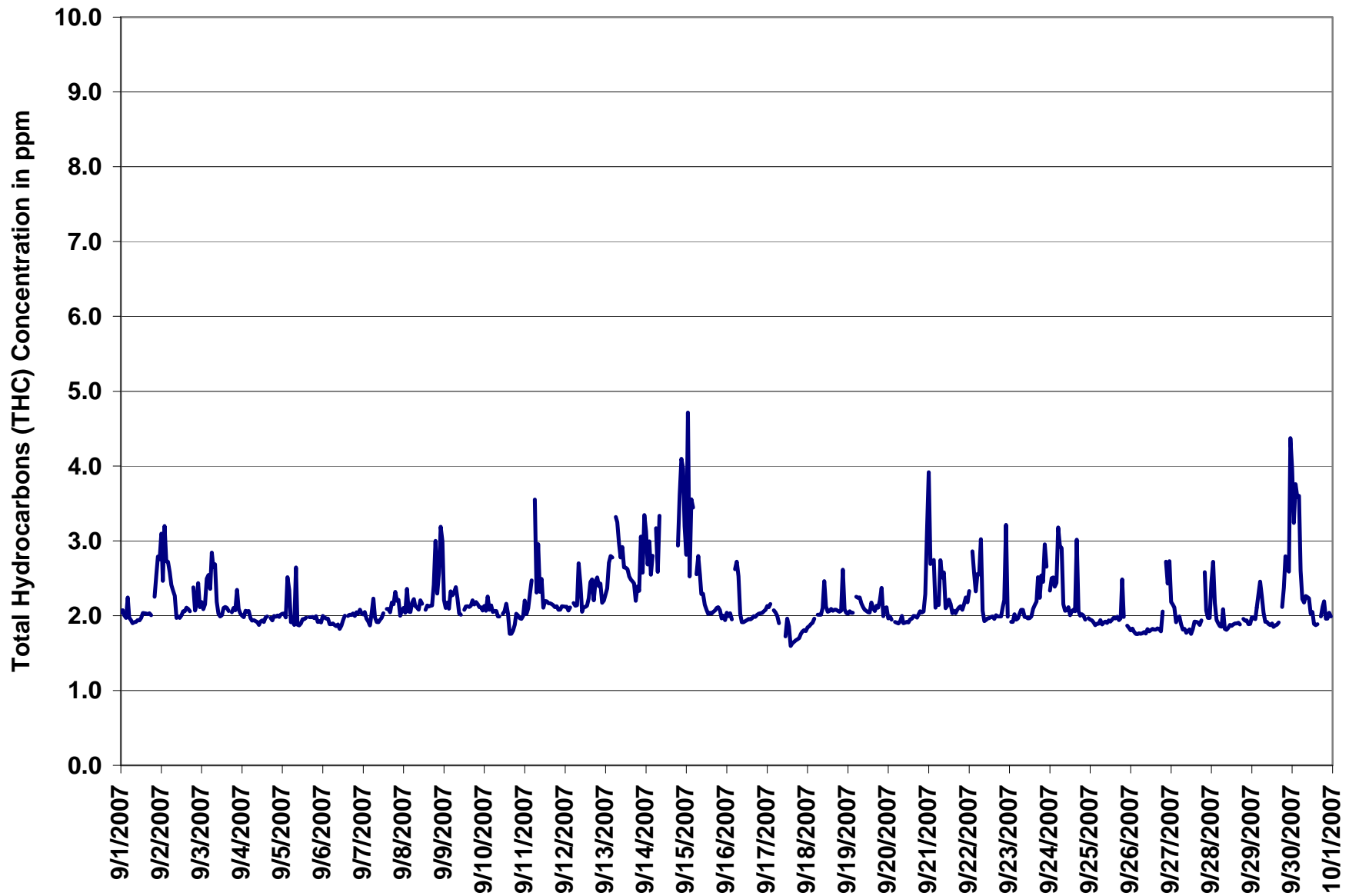
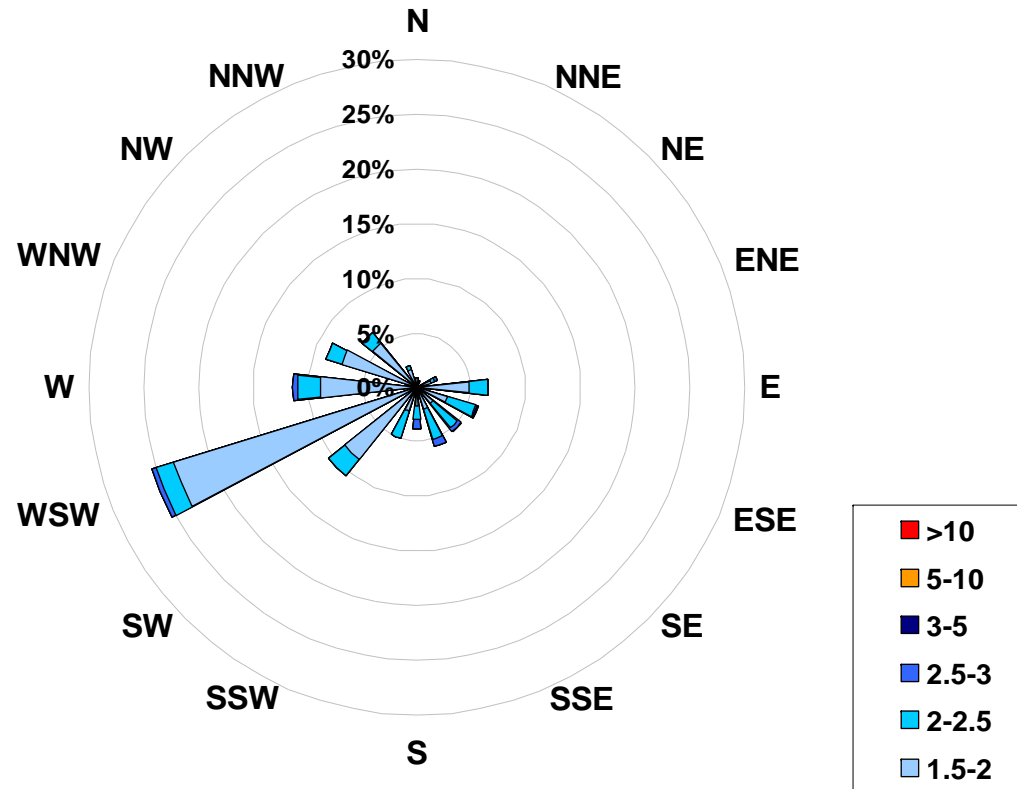


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for September 2007**



Calms: 0%

Frequency Distribution of THC in ppm Range			Frequency (hrs)
1.5	<	2	492
2	to	2.5	159
2.5	to	3	20
3	to	5	2
5	to	10	0
	>	10	0
Total Non-Zero Values			676

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

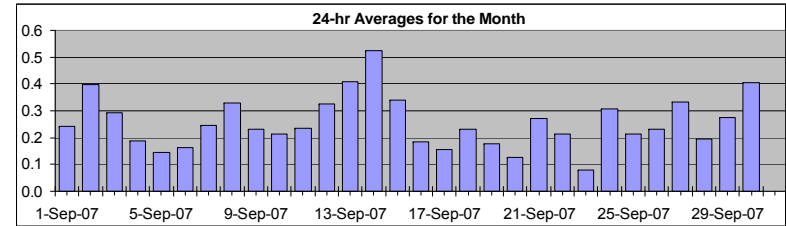
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	1.4	ppb	30-Sep	3:00 4:00
Maximum 24-hr Value:	0.5	ppb	14-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	0.3	0.2	0.2	0.1	0.0	0.3 ppb	0.2 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0.2	0.6
2-Sep-07	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.7
3-Sep-07	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6	
4-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.3	
5-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.3	
6-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.3	
7-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.5	
8-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0.3	1.1	
9-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
10-Sep-07	0	0	0	0	0	0	0	0	0	0	A	A	A	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
11-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
12-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	1	0	0	0.3	0.7	
13-Sep-07	0	0	1	0	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	1.2	
14-Sep-07	1	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.1	
15-Sep-07	0	1	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
16-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
17-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
18-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
19-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
20-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
21-Sep-07	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
22-Sep-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
23-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4	
24-Sep-07	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.9	
25-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.3	
26-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0.2	0.5	
27-Sep-07	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.5	
28-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.3	
29-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0.3	0.5	
30-Sep-07	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0.4	1.4	
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3		
Hourly Max	1.1	0.9	0.8	1.4	1.3	0.8	0.9	0.9	0.7	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.5	0.5	0.5	0.7	1.1	1.1	1.2		

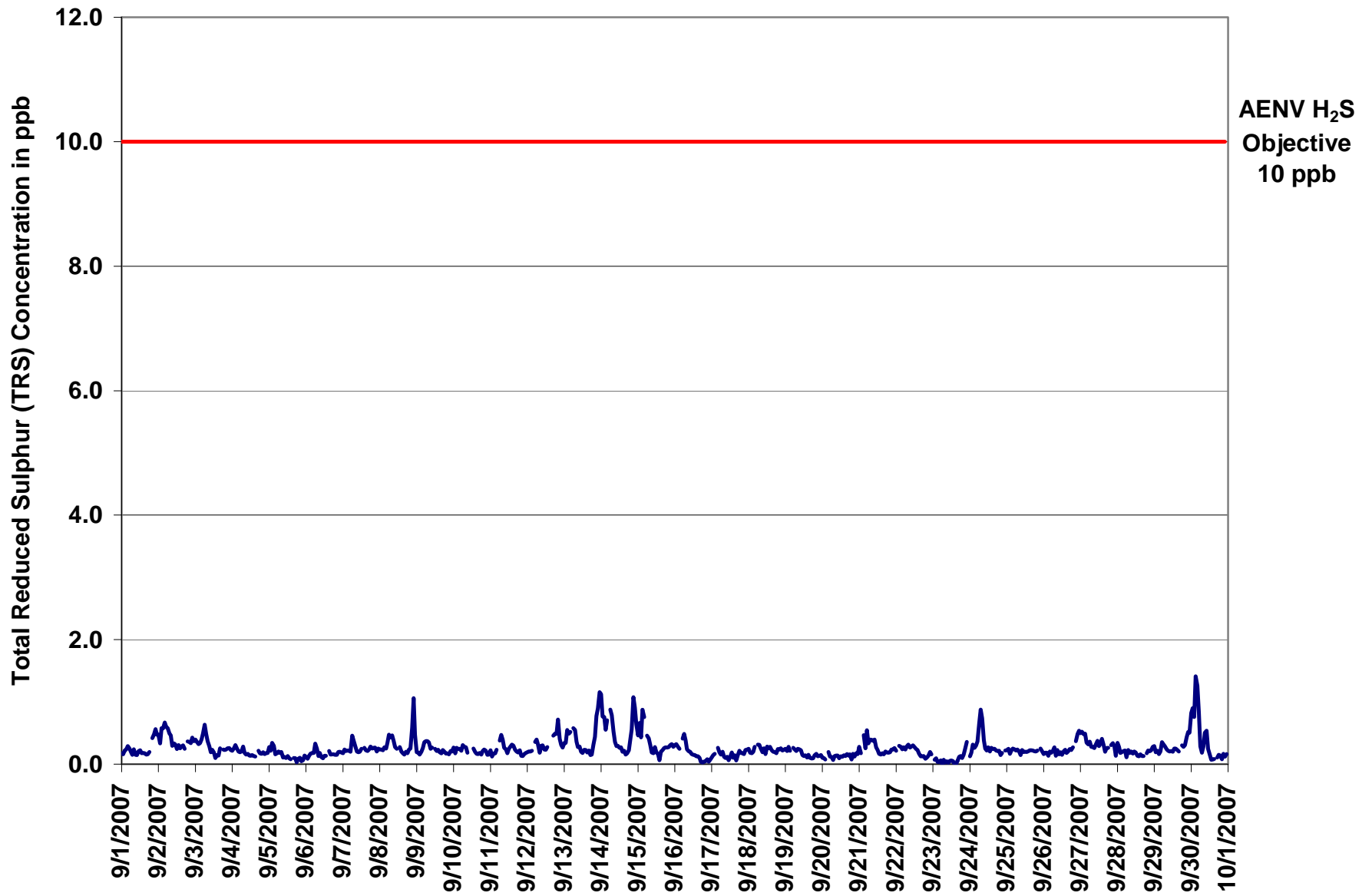


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

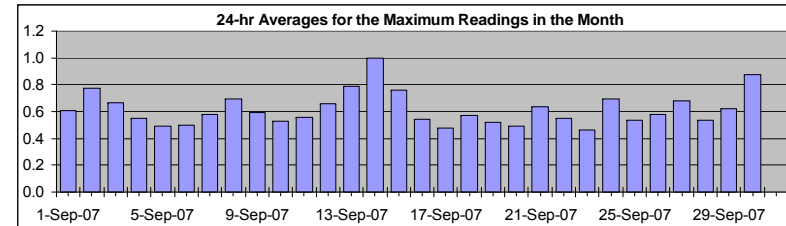
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	2.9	ppb	30-Sep	3:00 4:00
Maximum 24-hr Value:	1.0	ppb	14-Sep	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.0	0.7	0.6	0.5	0.4	0.3	0.6 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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	1	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	0	0	1	A	1	1	1	1	0.6	1.3
2-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	0.8	1.5
3-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	A	1	1	1	1	1	1	0.7	1.0
4-Sep-07	0	1	1	1	1	0	0	1	1	0	1	1	0	1	0	0	A	1	0	1	1	0	1	1	0.5	0.7
5-Sep-07	1	1	1	1	1	0	1	0	1	0	1	0	0	0	1	A	0	0	0	0	0	0	0	1	0.5	0.7
6-Sep-07	0	0	0	0	0	1	1	0	0	1	0	0	0	0	A	0	1	1	1	0	1	1	1	1	0.5	0.7
7-Sep-07	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	1	1	1	0.6	1.0
8-Sep-07	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0	1	1	1	2	2	1	0.7	1.8
9-Sep-07	1	1	0	0	1	1	1	1	1	1	1	A	1	1	1	0	0	1	1	1	0	0	1	0	0.6	0.9
10-Sep-07	1	1	1	1	0	1	1	1	1	0	A	A	A	1	1	1	0	0	1	0	0	1	1	0	0.5	0.6
11-Sep-07	1	0	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0.6	0.9
12-Sep-07	1	1	0	1	A	1	1	1	0	1	1	0	1	1	C	C	C	1	1	1	1	1	1	1	0.7	1.0
13-Sep-07	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	2	0.8	1.6
14-Sep-07	2	1	1	1	1	A	2	1	1	1	1	1	1	1	0	1	0	0	1	1	1	2	2	1	1.0	1.9
15-Sep-07	1	2	1	2	1	A	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0.8	2.2
16-Sep-07	1	1	1	1	A	1	1	1	1	0	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0.5	0.9
17-Sep-07	0	0	1	A	1	0	0	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	0	0.5	0.7
18-Sep-07	0	1	0	1	1	A	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0.6	0.7
19-Sep-07	1	1	1	1	A	1	1	1	1	1	1	0	0	1	0	1	1	0	0	0	1	0	0	0	0.5	0.6
20-Sep-07	0	0	0	A	0	1	0	0	1	0	0	0	1	1	1	0	0	0	0	1	0	1	1	1	0.5	0.6
21-Sep-07	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
22-Sep-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0.6	0.7
23-Sep-07	A	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	A	0.5	1.0
24-Sep-07	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	A	1	0.7	1.3
25-Sep-07	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0.5	0.7
26-Sep-07	0	1	1	1	1	0	1	1	0	1	0	0	0	0	0	1	1	1	1	1	A	1	1	1	0.6	0.9
27-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	0.7	0.9
28-Sep-07	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	A	1	1	1	1	1	0.5	0.8
29-Sep-07	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	0	1	A	1	1	1	1	1	1	0.6	1.1
30-Sep-07	1	1	1	3	2	2	1	1	1	1	1	1	1	0	1	1	A	0	0	1	0	1	1	0	0.9	2.9
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.7	0.8	0.6		
Hourly Max	1.6	2.2	1.5	2.9	2.1	1.7	1.7	1.3	1.0	0.9	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.9	0.8	0.9	1.5	1.9	1.9	1.6		

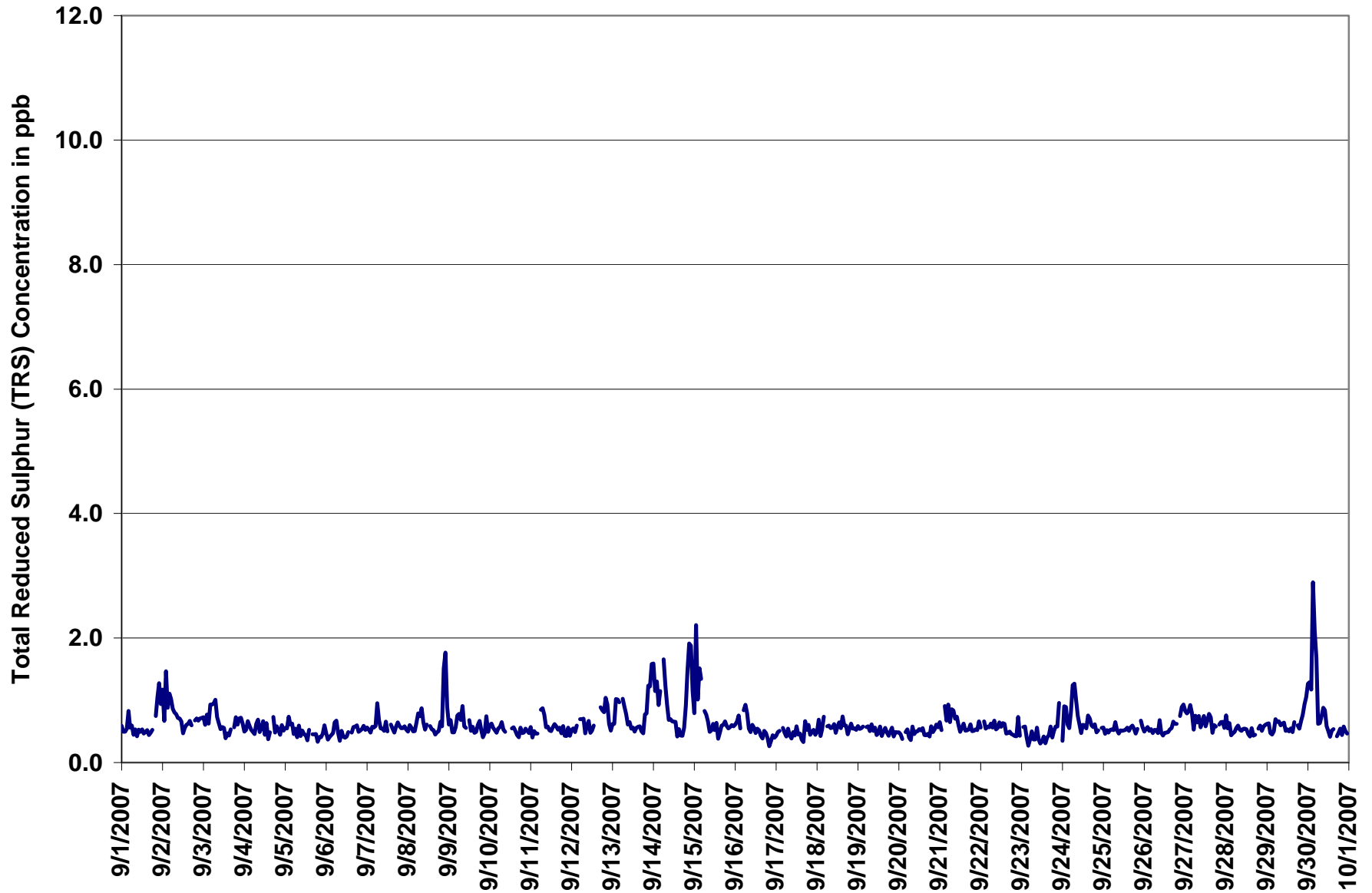
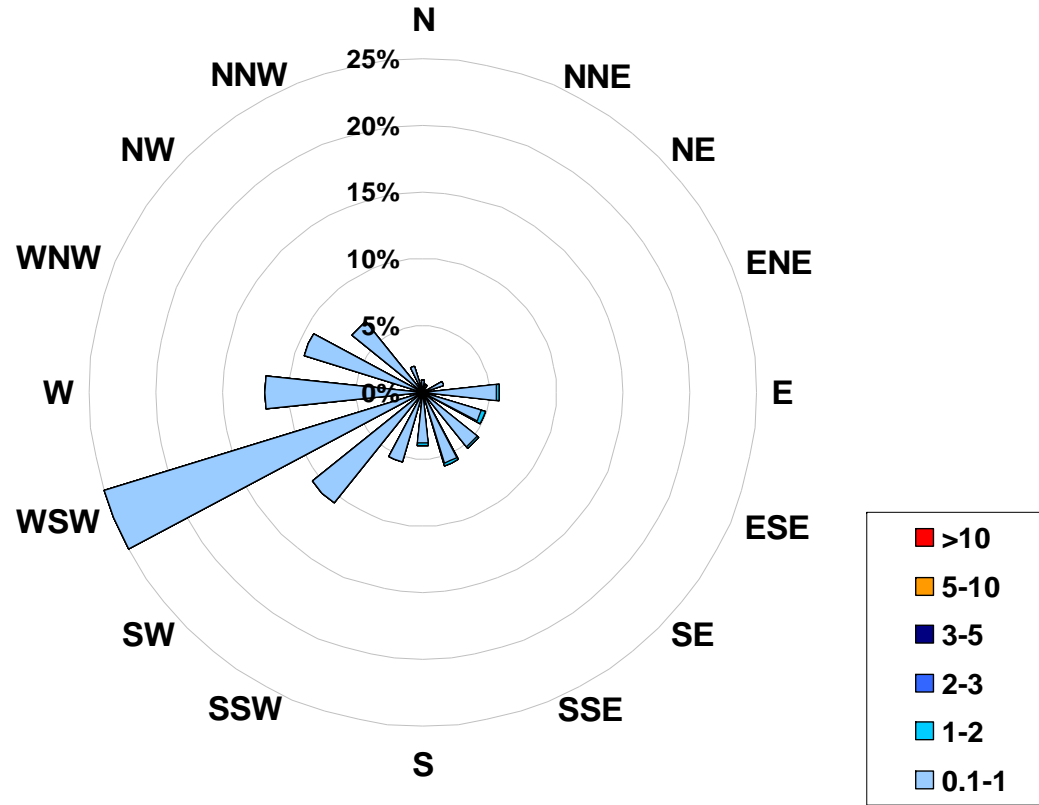


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for September 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	678
1	to	2	6
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			684

PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

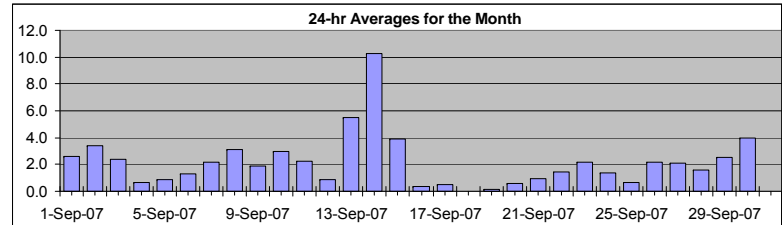
Particulate Matter (PM_{2.5})

Monitoring Dates: September 1, 2007 to October 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:	38.9 µg/m ³ 14-Sep 20:00 21:00
Maximum 24-hr Value:	10.2 µg/m ³ 14-Sep

AIC Time:	0 hrs	Operational Time:	712 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.4%
Percentile	99	95	75
	13.2	7.9	2.7
	50	25	5
	1.2	0.2	0.0
	1	0.0	0.0
	Average / Median		2.2
	1 µg/m ³		1.4 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Sep-07	1	1	1	2	3	3	3	2	3	2	2	1	1	1	0	0	0	0	1	2	8	8	13	4	2.6	12.6	
2-Sep-07	4	4	4	5	4	1	4	4	3	2	1	2	2	1	3	8	1	0	2	2	6	6	6	5	3.4	8.2	
3-Sep-07	3	2	1	3	3	3	3	5	4	3	2	0	1	0	0	2	3	2	2	4	3	5	3	0	2.4	5.1	
4-Sep-07	0	0	0	1	1	1	1	3	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.7	2.9	
5-Sep-07	1	0	0	0	0	2	4	5	4	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0.9	4.8	
6-Sep-07	0	0	0	1	1	2	3	3	2	2	0	1	0	0	1	0	3	2	4	1	2	1	1	0	1.3	3.5	
7-Sep-07	1	0	0	1	1	2	5	5	5	2	2	2	2	1	2	1	1	5	2	4	4	0	4	2	2.2	5.4	
8-Sep-07	1	1	0	1	0	0	3	3	4	5	1	0	0	0	0	0	0	1	3	11	11	13	7	3	3.1	13.2	
9-Sep-07	0	0	1	0	1	3	4	3	2	3	2	1	2	1	1	1	3	3	2	2	2	3	1	2	1.8	3.9	
10-Sep-07	3	3	2	3	3	3	4	6	6	4	4	4	2	2	1	1	2	0	4	7	5	3	1	1	3.0	6.7	
11-Sep-07	1	0	1	1	2	4	6	11	9	2	1	4	2	2	1	1	1	D	1	0	0	0	0	0	2.2	10.8	
12-Sep-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	3	4	8	2	0	0	0.9	7.7
13-Sep-07	0	0	0	1	0	0	1	3	13	8	5	4	5	5	3	3	3	4	5	12	15	17	12	11	5.5	17.4	
14-Sep-07	9	6	3	4	4	5	6	13	12	8	3	5	4	4	2	2	6	6	9	21	39	37	20	18	10.2	38.9	
15-Sep-07	10	5	5	5	5	3	3	5	5	8	7	4	0	0	0	0	3	3	5	4	8	3	3	1	3.9	9.7	
16-Sep-07	0	0	1	0	0	1	1	3	0	0	0	0	1	0	-1	D	0	0	0	0	0	0	1	0	0.3	2.6	
17-Sep-07	0	0	0	0	0	1	1	3	1	0	0	C	C	C	C	0	0	1	0	1	1	1	0	0	0.5	2.6	
18-Sep-07	0	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
19-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0.1	2.0	
20-Sep-07	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	1	2	2	1	2	2	1	0	0	0.6	2.0	
21-Sep-07	0	0	0	0	1	1	2	2	2	4	4	3	0	0	0	0	0	2	0	0	0	0	0	0	1.0	3.8	
22-Sep-07	0	0	0	1	1	1	2	2	3	2	2	1	1	1	1	2	1	2	3	3	1	2	1	3	1.5	2.8	
23-Sep-07	1	2	3	2	2	2	1	2	2	2	1	1	2	1	1	2	2	1	3	6	5	6	2	1	2.2	6.2	
24-Sep-07	0	0	1	1	1	1	4	5	5	2	1	2	1	1	1	4	1	0	0	0	0	0	0	0	1.4	5.5	
25-Sep-07	0	0	0	0	1	1	1	2	1	1	1	1	0	0	0	2	2	0	1	1	1	0	0	0	0.7	1.8	
26-Sep-07	0	0	0	0	1	1	1	2	2	2	2	1	1	1	2	2	2	1	3	5	7	6	5	6	2.2	6.7	
27-Sep-07	6	6	6	1	1	1	1	1	1	1	3	2	2	2	2	5	0	0	2	1	2	1	2	3	1	2.1	6.2
28-Sep-07	3	1	0	0	0	1	1	2	2	2	2	2	2	1	2	1	1	2	4	2	2	2	1	1	1.6	3.6	
29-Sep-07	0	1	0	0	0	2	3	1	1	0	0	0	0	0	0	0	0	1	3	8	7	13	13	8	2.5	12.8	
30-Sep-07	8	8	8	10	8	5	2	2	3	6	8	3	0	0	0	0	0	1	5	4	2	2	3	7	4.0	9.9	
Hourly Avg	1.7	1.5	1.2	1.4	1.5	1.7	2.4	3.2	3.3	2.3	2.0	1.5	1.1	0.9	0.9	1.2	1.3	1.5	2.1	3.8	4.8	4.5	3.3	2.6			
Hourly Max	9.7	8.1	8.1	9.9	7.8	5.2	6.1	12.5	12.9	8.0	8.0	5.4	5.0	4.6	4.7	8.2	5.7	6.3	8.5	21.2	38.9	36.8	19.7	17.6			

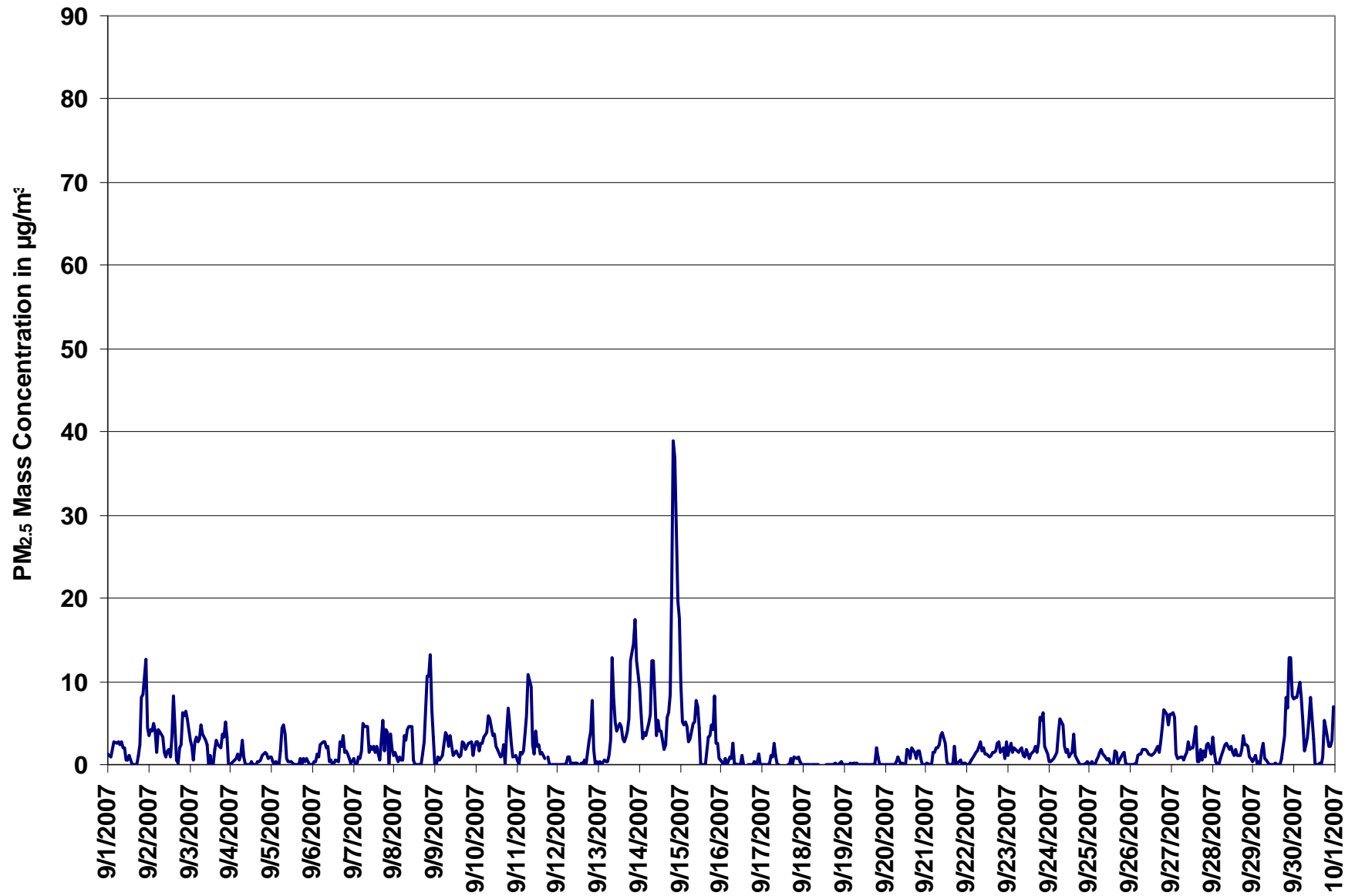


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

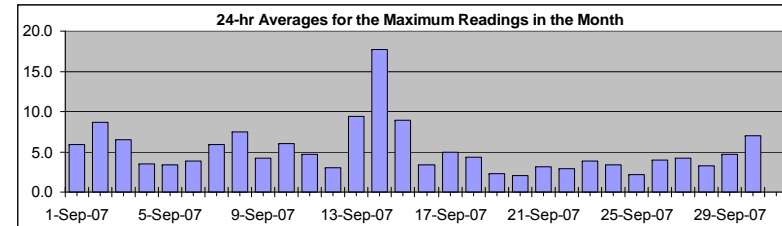
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	57.7	µg/m ³	14-Sep	20:00 21:00
Maximum 24-hr Value:	17.7	µg/m ³	14-Sep	



AIC Time:	0 hrs	Operational Time:	717 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	20.9	12.3	6.5	3.9	2.5	0.9	0.3	5.2	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	3	2	2	4	4	5	5	4	5	5	5	4	4	5	10	4	2	4	4	7	10	15	18	8	5.9	18.3
2-Sep-07	8	6	10	10	12	5	9	8	7	6	7	7	9	8	8	21	5	10	7	6	8	8	13	8	8.6	21.0
3-Sep-07	8	7	4	5	5	6	6	7	6	9	6	3	6	5	7	9	9	7	5	5	5	11	14	3	6.5	13.8
4-Sep-07	3	5	6	3	4	2	3	4	3	3	3	3	6	3	5	3	3	3	3	4	3	3	2	2	3.5	5.6
5-Sep-07	3	3	1	3	2	6	7	7	8	3	2	3	3	1	3	1	2	2	3	5	4	3	2	3	3.3	7.8
6-Sep-07	1	2	3	3	3	5	4	6	4	4	3	3	5	4	4	6	6	5	6	6	4	3	2	2	3.9	6.3
7-Sep-07	2	1	1	3	3	5	7	6	7	6	4	4	7	5	10	9	5	13	6	9	8	3	12	5	5.9	12.8
8-Sep-07	7	4	3	4	3	3	6	5	7	7	7	9	7	4	3	4	6	4	11	28	14	18	8	6	7.5	27.8
9-Sep-07	0	2	4	4	3	4	6	5	6	6	4	3	5	5	3	4	6	5	4	4	4	5	3	3	4.2	6.4
10-Sep-07	4	5	4	5	5	5	7	9	8	7	7	6	6	7	6	5	8	6	7	8	9	4	3	2	6.0	9.4
11-Sep-07	3	2	4	4	4	7	8	16	11	10	5	9	5	5	3	4	3	2	4	1	1	0	1	1	4.7	15.8
12-Sep-07	1	1	1	1	1	1	4	3	2	3	3	2	3	4	4	5	3	3	6	7	10	4	1	2	3.1	9.9
13-Sep-07	2	2	1	2	2	2	3	8	19	12	12	8	9	11	10	6	9	11	8	16	19	20	16	16	9.3	20.3
14-Sep-07	12	9	4	6	5	7	8	17	20	12	7	8	9	12	9	7	12	14	26	38	58	49	46	26	17.7	57.7
15-Sep-07	15	10	7	7	7	4	6	8	11	19	14	14	6	3	4	9	8	8	10	8	15	10	4	6	8.9	19.0
16-Sep-07	4	2	5	5	5	5	4	8	6	2	2	3	6	2	2	1	2	1	3	2	2	2	4	1	3.4	8.2
17-Sep-07	3	2	2	2	2	4	3	5	4	2	3	C	C	C	5	6	9	6	4	7	10	8	9	7	4.9	9.9
18-Sep-07	8	6	6	6	6	6	7	4	3	2	0	0	0	2	1	8	7	3	2	7	6	6	7	4	4.4	7.7
19-Sep-07	3	4	5	2	3	5	3	2	4	3	2	1	0	0	0	1	1	1	3	5	5	0	0	0	2.3	5.3
20-Sep-07	0	1	0	0	1	0	1	2	2	1	2	2	1	4	4	3	5	3	3	3	4	5	1	1	2.0	4.7
21-Sep-07	1	2	3	1	6	3	4	5	5	9	8	6	1	1	1	1	3	7	2	2	2	2	2	1	3.2	8.7
22-Sep-07	2	1	1	2	2	2	4	4	4	4	3	2	2	3	3	3	3	4	3	4	3	4	3	5	2.9	4.9
23-Sep-07	3	3	4	3	3	3	3	3	4	3	2	3	3	2	2	3	4	3	4	9	8	9	4	2	3.8	9.0
24-Sep-07	2	2	2	2	3	3	7	8	7	6	2	4	3	4	4	7	6	2	1	1	1	2	2	3	3.4	7.8
25-Sep-07	1	3	1	1	2	2	3	3	3	2	2	5	2	1	2	3	3	2	2	3	3	2	1	1	2.2	4.9
26-Sep-07	2	1	1	1	3	3	3	4	3	4	3	3	3	2	3	3	4	3	5	7	10	8	7	8	3.9	10.1
27-Sep-07	8	9	8	3	3	4	3	3	3	4	5	3	3	5	6	3	2	4	2	4	4	5	4	4	4.2	8.5
28-Sep-07	6	5	2	1	1	2	3	4	3	4	3	4	3	3	3	2	2	4	7	3	4	4	3	2	3.3	7.0
29-Sep-07	2	2	2	2	3	4	4	3	2	1	1	1	1	2	1	2	2	3	5	12	13	18	15	13	4.7	18.3
30-Sep-07	12	12	10	12	11	7	3	4	6	7	12	5	3	1	0	1	1	6	10	8	4	4	10	17	7.0	17.5
Hourly Avg	4.3	3.9	3.6	3.6	3.9	4.1	4.7	5.9	6.1	5.6	4.8	4.4	4.3	3.9	4.2	4.9	4.7	5.0	5.6	7.6	8.2	7.8	7.3	5.5		
Hourly Max	15.0	12.0	10.3	11.8	11.7	7.4	8.6	17.3	20.2	19.0	13.8	14.1	9.4	12.1	10.2	21.0	12.3	14.4	26.3	38.1	57.7	49.2	46.5	26.0		

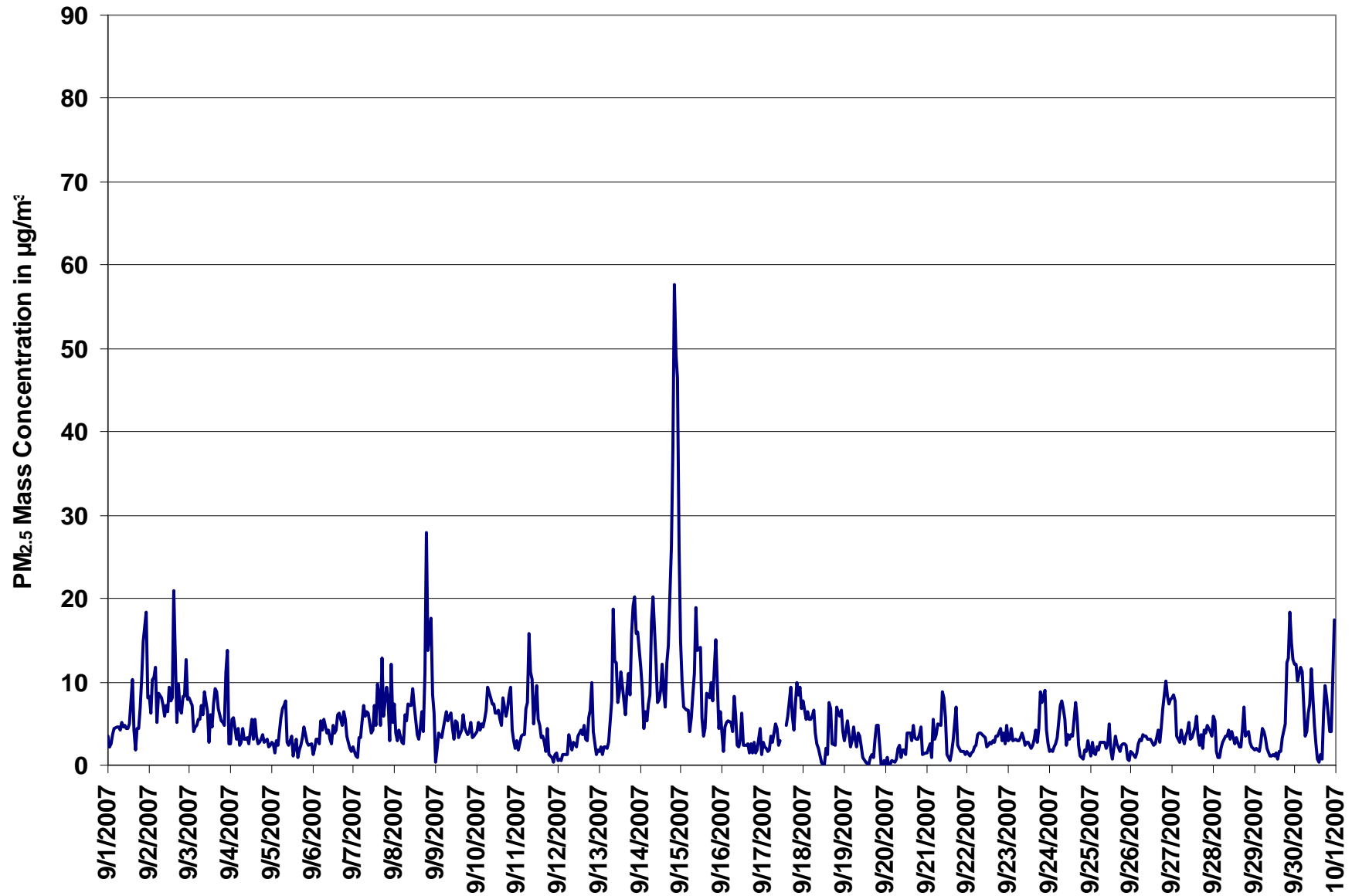
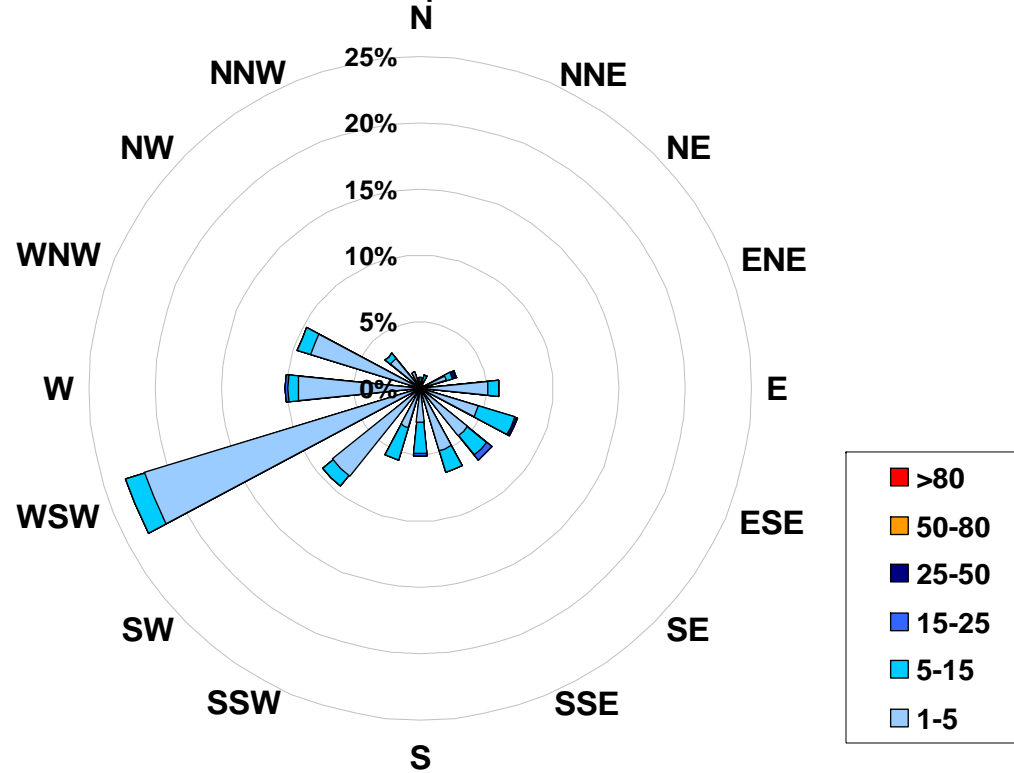


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	634
5	to	15	72
15	to	25	4
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			712

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

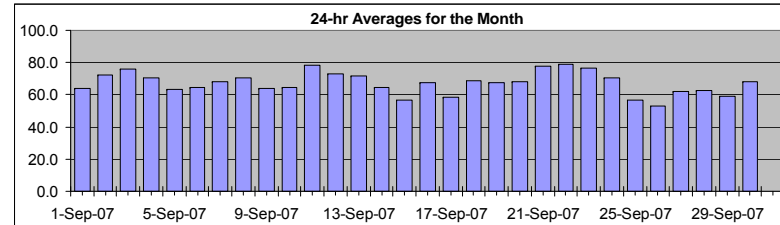
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	95.8 %	3-Sep	6:00 7:00
Maximum 24-hr Value:	78.6 %	22-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.3	91.2	79.8	68.0	55.6	41.7	32.4	67.2 %	68.0 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	79	81	81	83	86	83	82	75	71	64	58	52	48	48	48	46	41	42	46	52	65	68	71	72	64.2	86.3
2-Sep-07	77	78	86	89	88	90	90	88	84	70	59	52	51	46	45	58	73	58	62	72	74	78	83	85	72.3	90.2
3-Sep-07	87	91	93	94	95	96	96	95	94	83	70	60	56	51	51	60	54	52	56	62	67	74	90	89	75.6	95.8
4-Sep-07	89	91	91	92	93	91	90	88	83	73	65	62	58	53	51	47	47	49	51	55	60	67	70	74	70.4	92.7
5-Sep-07	77	77	75	79	71	71	76	72	72	65	59	58	56	56	54	52	48	51	54	61	57	59	61	67	63.5	78.9
6-Sep-07	72	75	76	80	79	80	84	81	77	69	55	52	49	48	46	46	47	48	52	54	60	66	72	75	64.2	84.3
7-Sep-07	78	80	79	82	81	84	85	80	72	62	59	57	50	48	47	52	44	57	62	70	73	73	78	82	68.1	85.5
8-Sep-07	78	86	90	91	93	94	92	90	86	81	76	62	53	52	45	40	39	41	45	59	68	74	80	81	70.6	93.6
9-Sep-07	77	75	76	79	79	80	81	77	66	60	55	49	48	48	46	46	49	53	56	61	64	68	70	74	64.1	81.2
10-Sep-07	77	79	84	84	83	80	79	77	73	66	60	57	53	49	46	46	45	43	47	56	61	64	66	71	64.5	84.3
11-Sep-07	75	66	71	76	79	81	80	80	83	73	65	74	86	91	91	91	88	79	80	79	75	73	73	78	78.6	90.9
12-Sep-07	82	84	81	83	87	89	89	84	76	74	71	66	61	59	54	53	52	50	59	69	75	80	82	85	72.7	89.3
13-Sep-07	87	89	93	94	94	95	95	94	88	74	66	56	50	48	45	42	42	44	50	60	68	74	79	90	71.6	94.6
14-Sep-07	94	93	93	93	92	86	81	75	60	57	49	42	39	37	33	32	33	35	42	58	69	80	88	90	64.6	93.8
15-Sep-07	88	87	84	89	91	88	84	80	69	61	51	44	30	21	17	18	23	28	30	34	43	59	70	79	56.9	90.5
16-Sep-07	77	78	80	74	82	85	85	79	72	67	68	65	71	68	59	53	51	48	50	55	57	60	65	65	67.4	85.5
17-Sep-07	70	75	74	75	75	75	69	66	61	52	45	42	41	40	40	42	44	46	49	52	57	67	72	73	58.4	75.2
18-Sep-07	76	77	76	78	78	79	80	77	75	71	68	62	64	62	60	59	59	62	63	65	64	66	63	62	68.6	80.2
19-Sep-07	63	66	68	71	79	83	87	86	81	70	62	58	56	51	49	48	47	53	61	65	60	84	88	86	67.6	88.2
20-Sep-07	88	84	78	71	73	74	72	72	70	63	56	51	48	52	62	62	66	65	61	69	73	73	73	80	68.2	87.8
21-Sep-07	87	90	91	90	89	90	91	92	92	91	86	81	69	58	48	44	47	58	77	75	79	80	82	80	77.9	91.9
22-Sep-07	81	83	82	85	86	83	82	81	76	74	74	71	69	68	67	67	68	71	77	83	88	89	90	90	78.6	90.0
23-Sep-07	86	85	85	86	86	87	87	85	84	81	78	70	64	57	59	59	54	57	66	71	77	84	90	93	76.3	92.7
24-Sep-07	94	94	94	94	94	94	93	92	83	76	69	56	44	48	59	53	47	48	53	57	58	61	66	70	70.7	94.0
25-Sep-07	70	68	66	64	65	66	67	66	65	59	54	48	44	43	40	41	44	46	50	56	60	60	59	56	56.4	69.7
26-Sep-07	55	57	58	59	60	62	65	67	66	59	49	45	40	41	39	38	39	38	43	47	52	60	62	66	52.7	66.9
27-Sep-07	66	69	71	71	73	74	73	71	69	61	62	62	56	51	50	46	42	46	47	54	64	69	68	71	62.0	73.7
28-Sep-07	77	73	74	74	70	64	68	69	63	61	57	59	56	53	54	53	49	51	56	61	63	63	63	65	62.4	77.3
29-Sep-07	65	67	67	71	81	83	76	74	74	68	59	53	49	45	41	38	36	34	39	50	59	64	61	64	59.1	82.9
30-Sep-07	64	69	71	72	68	69	67	69	80	84	80	73	61	54	53	52	53	55	59	61	66	79	83	87	67.9	86.8
Hourly Avg	77.8	79.0	79.7	80.7	81.6	81.8	81.6	79.4	75.5	68.9	62.9	58.0	54.1	51.6	49.9	49.5	49.2	50.2	54.7	60.7	65.2	70.5	74.0	76.7		
Hourly Max	93.8	94.0	93.6	94.3	95.2	95.5	95.8	95.4	94.3	90.9	86.5	81.4	86.2	90.6	90.8	90.9	87.8	78.8	79.7	83.5	88.3	89.1	90.0	92.7		

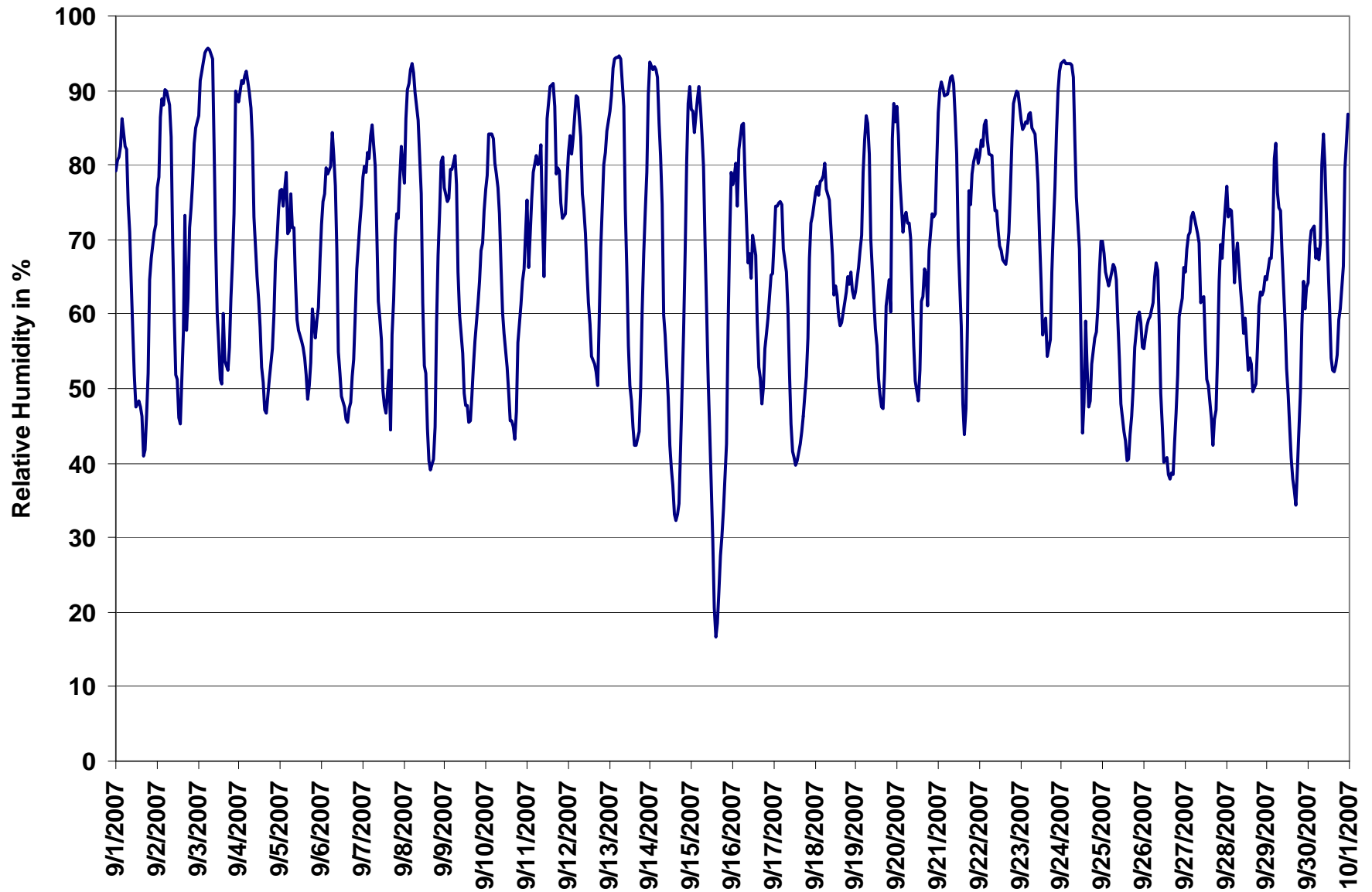


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

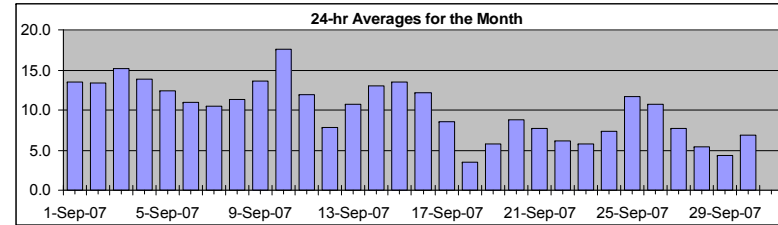
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	24.9	°C	10-Sep	16:00 17:00
Maximum 24-hr Value:	17.5	°C	10-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.2	19.7	13.4	10.0	5.9	2.2	-0.4	10.1 °C	10.0 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Sep-07	10	9	9	8	7	8	8	10	12	14	16	18	19	19	18	19	20	19	18	15	13	12	12	11	13.5	19.8	
2-Sep-07	10	10	9	8	8	7	8	8	11	15	17	19	19	19	21	20	18	15	17	16	14	13	13	12	12	13.3	20.7
3-Sep-07	12	12	11	11	11	11	11	11	12	15	17	19	20	21	20	18	19	19	18	17	16	14	13	15.1	20.8		
4-Sep-07	12	12	12	11	11	11	11	12	12	14	15	16	16	16	18	18	18	17	16	15	13	12	11	10	13.9	18.4	
5-Sep-07	10	9	9	8	9	9	9	10	11	14	15	15	15	15	16	16	16	16	15	13	13	13	12	10	12.4	16.3	
6-Sep-07	9	8	8	7	7	7	7	8	8	11	14	15	15	15	16	15	15	15	14	13	11	10	8	7	11.0	15.6	
7-Sep-07	6	6	6	5	6	5	5	6	10	12	13	14	17	16	16	15	17	14	13	11	11	10	9	9	10.5	16.8	
8-Sep-07	9	8	7	7	6	5	6	6	8	10	13	16	17	16	18	18	18	17	16	13	11	10	9	8	11.3	18.3	
9-Sep-07	8	8	8	7	7	6	6	8	11	14	16	18	20	20	21	21	20	19	18	16	15	14	14	13	13.7	21.3	
10-Sep-07	12	12	11	11	11	12	13	13	15	17	19	21	22	23	25	25	25	24	23	20	18	17	16	15	17.5	24.9	
11-Sep-07	13	15	14	12	11	11	11	12	12	15	16	14	12	12	12	12	12	12	11	11	11	10	9	7	12.0	15.5	
12-Sep-07	5	4	4	4	3	2	2	3	5	6	7	9	11	12	14	15	14	15	13	11	9	8	7	6	7.8	14.6	
13-Sep-07	5	4	3	2	1	1	1	1	6	10	12	15	17	19	20	21	21	20	18	16	13	12	11	9	10.7	21.0	
14-Sep-07	7	7	6	5	4	4	5	7	11	13	15	19	21	22	23	23	23	22	20	15	13	11	9	8	13.0	23.2	
15-Sep-07	7	6	6	5	5	5	5	6	8	11	16	18	22	24	24	23	21	20	19	17	17	15	13	12	13.6	23.6	
16-Sep-07	12	12	12	12	11	10	10	12	13	13	13	13	13	14	16	15	15	15	14	11	10	10	9	8	12.2	16.0	
17-Sep-07	7	5	5	4	3	3	5	7	8	10	11	12	12	12	12	12	12	12	11	10	9	8	7	6	8.5	12.4	
18-Sep-07	6	5	4	3	2	2	2	2	2	2	3	4	4	4	5	5	5	4	4	4	3	3	3	3	3.5	5.9	
19-Sep-07	3	3	3	2	1	1	1	2	3	5	7	8	8	10	11	11	11	10	9	8	8	5	5	5	5.8	11.3	
20-Sep-07	5	5	6	7	7	7	7	8	9	11	13	13	13	13	11	11	11	10	9	8	7	7	7	6	8.8	13.4	
21-Sep-07	5	4	4	4	4	4	4	4	4	5	7	9	12	14	16	16	15	12	8	8	7	7	6	6	7.7	15.7	
22-Sep-07	5	4	4	3	3	4	5	5	7	8	8	9	9	9	9	9	8	7	7	6	5	5	5	5	6.2	9.0	
23-Sep-07	4	4	4	4	3	3	3	3	4	4	6	7	8	9	9	9	11	11	8	7	6	4	4	3	5.8	11.4	
24-Sep-07	2	1	1	0	-1	-1	-1	0	2	5	8	12	16	14	12	13	14	14	13	11	11	11	10	8	7.3	15.5	
25-Sep-07	9	9	10	10	10	9	9	10	10	12	13	15	16	16	16	15	14	13	12	11	11	10	11	11	11.7	15.7	
26-Sep-07	12	11	11	11	11	10	9	9	9	11	12	13	14	14	15	14	14	13	12	10	8	6	5	4	10.8	14.5	
27-Sep-07	4	4	3	3	2	2	3	3	4	6	7	8	11	12	14	15	15	13	12	10	9	8	8	7	7.7	15.3	
28-Sep-07	6	6	5	5	5	5	4	3	5	6	7	6	7	8	8	8	8	7	6	4	3	3	2	2	5.5	8.3	
29-Sep-07	1	0	0	0	-2	-2	-1	-1	0	1	4	6	8	10	11	11	11	11	10	8	6	5	5	5	4.4	11.2	
30-Sep-07	5	4	4	4	4	4	4	4	4	4	6	8	10	12	12	11	11	10	9	9	8	6	6	6	6.8	12.2	
Hourly Avg	7.4	7.0	6.5	6.1	5.7	5.6	5.6	6.4	7.8	9.8	11.5	13.0	14.2	14.8	15.2	15.1	15.0	14.3	13.0	11.5	10.3	9.4	8.6	7.9			
Hourly Max	13.4	14.8	13.6	12.2	11.5	12.4	12.7	13.1	14.7	17.2	19.5	20.5	22.3	23.5	24.5	24.6	24.9	24.2	23.1	20.3	18.2	17.0	16.4	15.0			

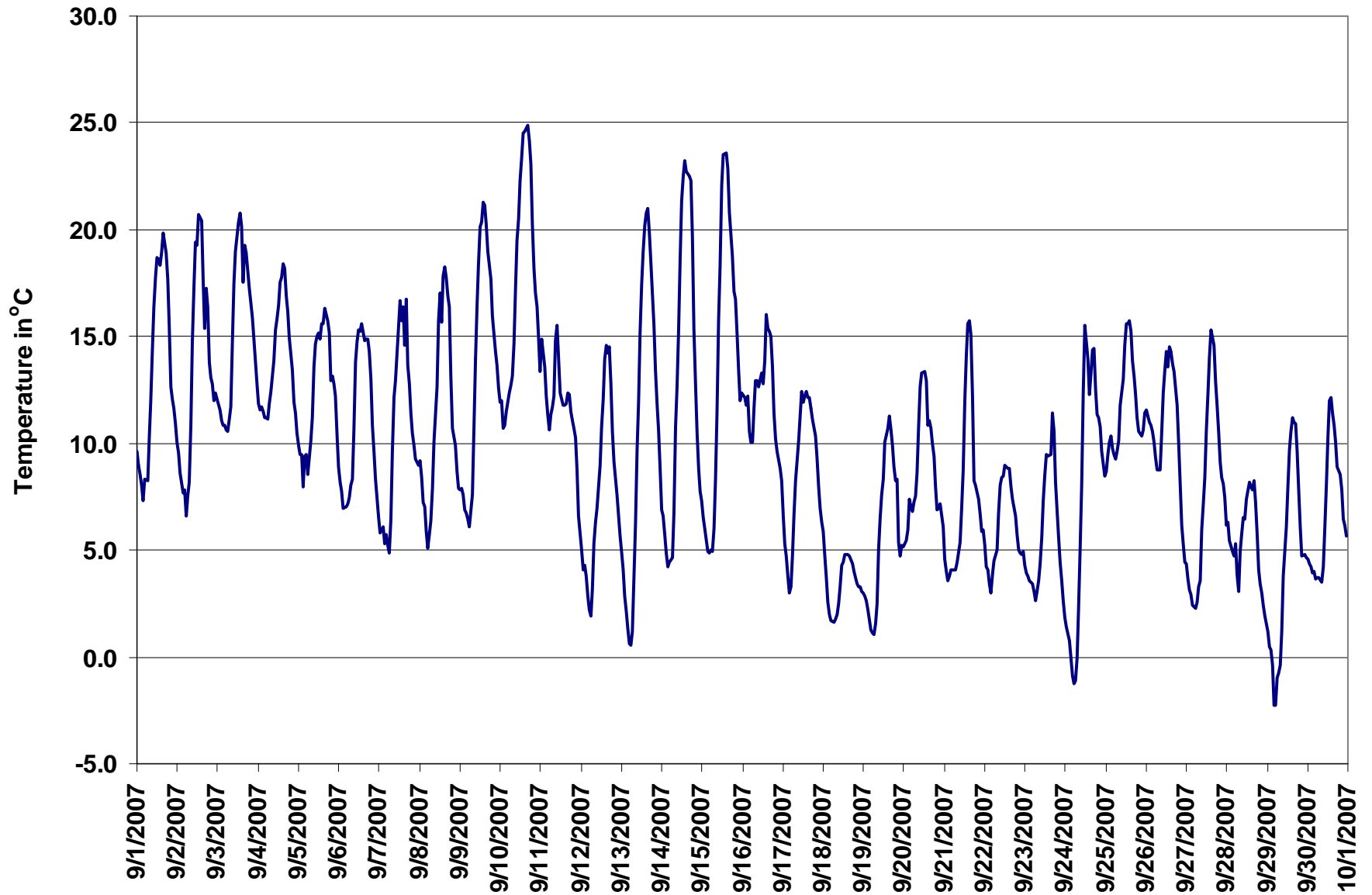


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

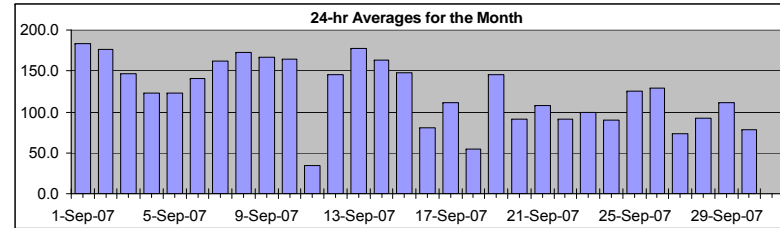
Solar Radiation (SR)

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

Summary

Maximum 1-hr Average:	642.3	W/m ²	2-Sep	13:00 14:00
Maximum 24-hr Value:	182.9	W/m ²	1-Sep	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	575.7	501.6	224.8	10.5	0.0	0.0	0.0	123.7 W/m ²	10.5 W/m ²



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	0	0	0	0	0	0	20	145	280	411	504	575	612	352	396	389	351	230	105	18	0	0	0	0	182.9	612.4
2-Sep-07	0	0	0	0	0	0	9	25	234	395	501	576	529	642	593	160	290	174	100	8	0	0	0	0	176.6	642.3
3-Sep-07	0	0	0	0	0	0	10	54	99	361	490	546	568	543	361	137	218	92	38	5	0	0	0	0	146.8	568.5
4-Sep-07	0	0	0	0	0	0	7	84	87	226	363	259	249	423	290	400	351	108	86	16	0	0	0	0	122.9	423.1
5-Sep-07	0	0	0	0	0	1	13	88	153	281	296	276	364	325	385	211	303	171	89	6	0	0	0	0	123.5	385.0
6-Sep-07	0	0	0	0	0	0	3	41	77	283	524	537	580	328	369	199	203	156	60	6	0	0	0	0	140.3	580.0
7-Sep-07	0	0	0	0	0	0	12	93	261	383	483	541	535	408	403	325	335	51	60	6	0	0	0	0	162.3	541.4
8-Sep-07	0	0	0	0	0	0	10	66	152	212	382	585	624	313	579	511	373	236	88	7	0	0	0	0	172.4	623.8
9-Sep-07	0	0	0	0	0	0	9	121	200	379	449	502	539	395	497	446	292	143	42	4	0	0	0	0	167.4	538.5
10-Sep-07	0	0	0	0	0	0	5	46	139	318	407	457	528	555	505	417	302	196	76	5	0	0	0	0	164.8	555.4
11-Sep-07	0	0	0	0	0	1	7	32	65	162	116	66	48	47	32	71	80	75	28	2	0	0	0	0	34.6	161.7
12-Sep-07	0	0	0	0	0	0	10	58	116	179	224	417	525	439	484	467	319	191	68	4	0	0	0	0	146.0	525.3
13-Sep-07	0	0	0	0	0	1	9	87	239	358	458	527	559	547	502	420	309	187	64	3	0	0	0	0	178.0	558.5
14-Sep-07	0	0	0	0	0	1	9	110	234	338	425	527	547	487	435	342	240	183	44	2	0	0	0	0	163.5	546.7
15-Sep-07	0	0	0	0	0	1	5	53	119	303	460	428	553	537	508	317	182	79	16	1	0	0	0	0	148.5	553.1
16-Sep-07	0	0	0	0	0	0	13	141	75	64	82	159	171	279	319	191	239	160	51	2	0	0	0	0	81.0	318.5
17-Sep-07	0	0	0	0	0	0	6	101	226	346	444	548	254	229	169	125	142	55	15	0	0	0	0	0	110.9	547.6
18-Sep-07	0	0	0	0	0	1	4	45	64	106	178	221	164	165	124	106	78	35	6	0	0	0	0	0	54.1	221.0
19-Sep-07	0	0	0	0	0	0	3	32	136	332	430	494	487	527	469	367	144	74	14	0	0	0	0	0	146.1	526.6
20-Sep-07	0	0	0	0	0	0	3	62	149	309	421	348	234	265	125	147	69	34	12	0	0	0	0	0	90.8	421.1
21-Sep-07	0	0	0	0	0	0	0	11	29	84	156	275	438	422	464	377	253	44	22	0	0	0	0	0	107.3	463.7
22-Sep-07	0	0	0	0	0	0	2	25	155	215	252	238	360	317	298	173	108	44	11	0	0	0	0	0	91.6	359.9
23-Sep-07	0	0	0	0	0	0	3	60	96	145	230	326	353	372	217	189	279	113	12	0	0	0	0	0	99.8	372.4
24-Sep-07	0	0	0	0	0	0	4	46	158	269	282	411	366	125	99	146	141	94	12	0	0	0	0	0	89.7	411.1
25-Sep-07	0	0	0	0	0	0	1	32	124	300	395	449	517	340	370	276	124	73	12	0	0	0	0	0	125.6	516.7
26-Sep-07	0	0	0	0	0	0	1	19	109	308	398	448	467	293	412	347	178	98	12	0	0	0	0	0	128.7	466.7
27-Sep-07	0	0	0	0	0	0	1	18	64	214	113	157	282	271	304	207	92	24	2	1	0	0	0	0	72.9	304.3
28-Sep-07	0	0	0	0	0	0	0	32	118	195	206	225	304	358	265	226	186	102	9	0	0	0	0	0	92.7	357.9
29-Sep-07	0	0	0	0	0	0	0	17	62	220	372	444	456	389	314	230	110	62	5	0	0	0	0	0	111.7	456.0
30-Sep-07	0	0	0	0	0	0	0	7	22	67	130	197	335	433	313	213	119	40	5	0	0	0	0	0	78.3	433.5
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.2	6.0	58.3	134.8	258.8	339.0	392.0	418.2	370.9	353.4	271.1	213.7	110.8	38.9	3.3	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	0.0	0.0	1.0	20.2	144.6	279.7	410.9	524.5	585.1	623.8	642.3	592.8	510.9	373.2	235.5	105.3	18.5	0.1	0.0	0.0	0.0		

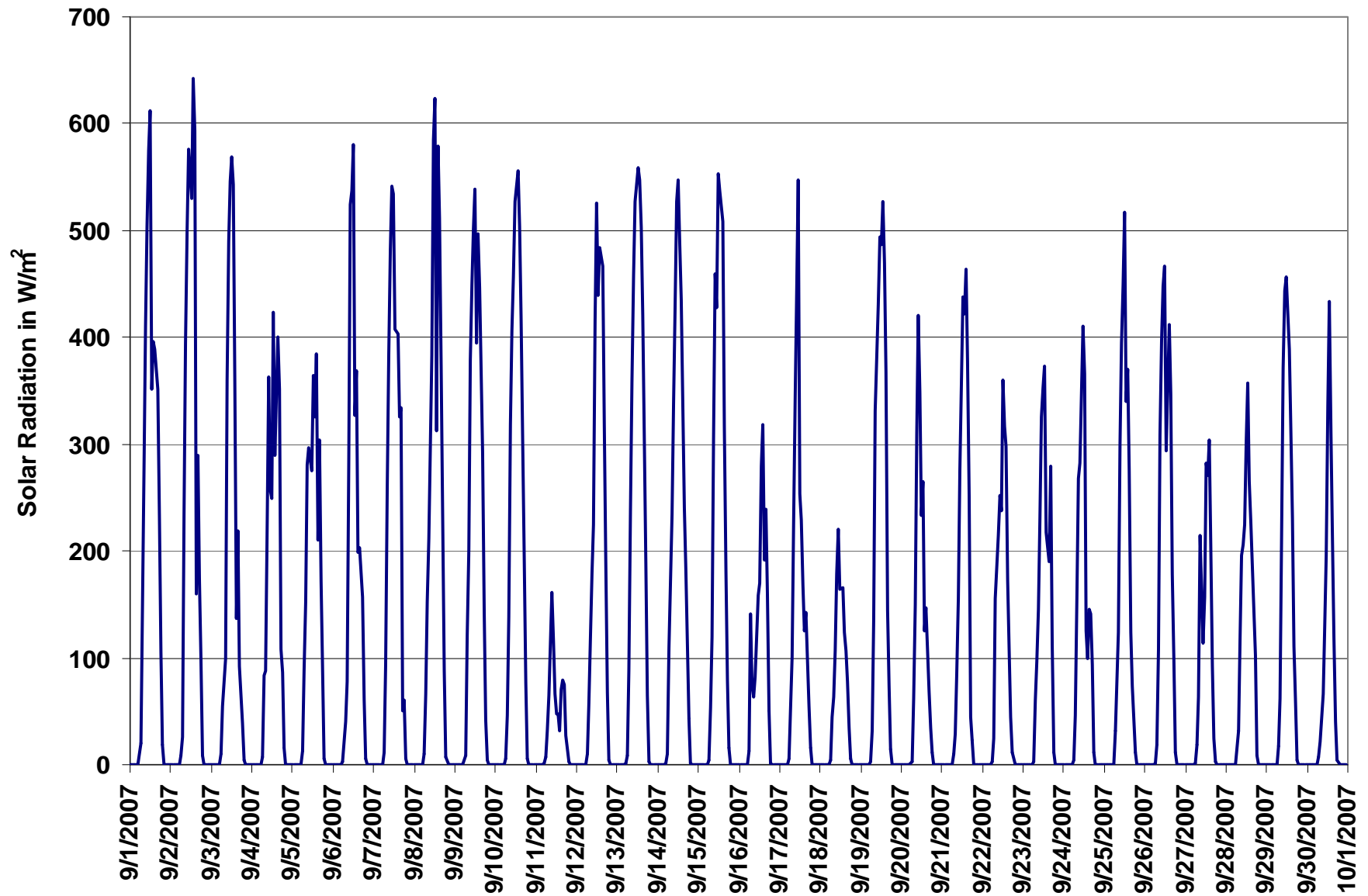


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

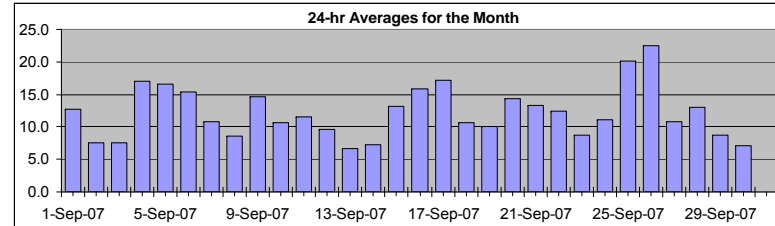
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	31.4	km/hr	26-Sep	0:00 1:00
Maximum 24-hr Value:	22.5	km/hr	26-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.7	24.3	15.3	10.4	7.8	5.8	4.8	12.2 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	13	14	12	9	8	10	10	10	12	15	18	18	18	19	16	16	13	16	17	14	9	7	7	7	7	12.7	18.8
2-Sep-07	6	5	6	7	8	6	7	8	8	9	8	7	7	7	10	15	10	7	8	7	7	6	6	8	7.5	15.2	
3-Sep-07	10	6	5	5	4	5	6	6	7	6	6	7	8	8	9	12	9	8	9	8	9	7	9	12	7.5	12.4	
4-Sep-07	10	7	10	8	8	10	10	10	13	21	25	23	20	22	24	28	29	27	24	19	16	15	17	15	17.1	28.7	
5-Sep-07	13	13	11	8	13	11	10	12	11	14	21	20	23	25	20	21	22	21	19	14	20	19	21	16	16.6	25.3	
6-Sep-07	13	12	16	17	17	11	12	15	18	18	23	20	21	19	19	18	17	16	12	15	15	13	8	6	15.4	22.8	
7-Sep-07	8	9	9	9	9	8	8	11	12	16	17	17	9	12	14	13	11	11	10	9	8	7	11	11	10.8	17.4	
8-Sep-07	10	9	7	8	7	7	9	8	8	8	9	10	10	9	12	12	12	10	6	5	7	8	8	8	8.6	12.4	
9-Sep-07	10	10	9	8	8	8	6	8	9	14	19	20	18	18	22	23	24	22	21	18	17	15	15	11	14.7	23.9	
10-Sep-07	10	10	7	8	8	9	9	10	11	11	11	12	10	10	10	10	7	15	12	10	11	17	16	13	10.6	17.3	
11-Sep-07	9	10	7	8	8	6	8	8	9	14	14	8	14	12	14	17	17	18	15	14	12	13	11	10	11.5	18.0	
12-Sep-07	9	9	11	9	10	8	8	10	13	12	14	13	12	9	7	10	8	7	8	8	8	8	10	8	9.6	14.1	
13-Sep-07	7	6	5	6	7	6	6	6	5	6	9	8	8	7	7	8	7	6	7	7	7	7	6	4	6.6	8.8	
14-Sep-07	6	6	6	6	5	7	7	6	7	8	11	9	8	9	12	13	9	7	6	5	5	5	5	5	7.2	13.2	
15-Sep-07	5	6	6	7	7	7	8	7	8	9	8	11	19	24	27	25	22	14	13	14	19	21	17	12	13.1	27.1	
16-Sep-07	12	13	13	14	8	8	7	6	10	17	16	20	19	16	16	24	26	27	26	21	18	18	14	12	15.8	27.5	
17-Sep-07	10	8	9	8	8	10	14	13	19	26	30	29	28	26	24	23	22	23	18	19	15	10	10	11	17.2	29.5	
18-Sep-07	10	13	13	14	11	10	9	11	13	12	11	11	11	10	11	12	13	11	11	8	9	8	6	6	10.6	14.1	
19-Sep-07	5	7	6	7	7	8	8	8	10	11	12	13	12	10	11	11	9	11	12	10	18	14	10	9	10.0	17.8	
20-Sep-07	8	6	11	19	14	16	20	18	16	22	22	23	20	21	23	17	14	9	12	8	8	8	7	6	14.3	22.6	
21-Sep-07	6	6	7	9	9	9	8	8	8	9	13	12	14	19	23	26	22	24	20	17	15	15	12	11	13.4	25.5	
22-Sep-07	9	11	10	9	8	10	11	10	13	16	16	19	20	20	19	18	17	14	12	10	7	6	5	7	12.4	20.3	
23-Sep-07	9	9	9	9	9	10	9	9	10	14	11	11	10	10	8	8	7	6	7	7	8	8	8	8	8.8	13.8	
24-Sep-07	8	8	7	7	6	7	6	6	8	10	10	8	14	17	14	11	13	18	16	14	13	17	15	13	11.1	18.3	
25-Sep-07	15	17	20	18	19	18	14	18	20	23	26	23	23	21	24	31	30	25	20	12	10	13	17	28	20.1	31.0	
26-Sep-07	31	27	27	29	28	26	27	26	24	27	30	29	28	24	28	26	23	23	15	13	8	7	6	8	22.5	31.4	
27-Sep-07	8	7	9	10	10	8	10	13	14	16	11	10	10	10	9	14	16	17	13	11	9	9	8	7	10.8	17.0	
28-Sep-07	7	9	10	12	14	14	13	10	12	17	16	16	19	19	16	15	15	16	13	10	10	13	8	8	13.1	18.9	
29-Sep-07	10	8	8	7	5	5	7	9	11	12	12	12	11	10	12	11	9	9	8	6	6	6	7	6	8.7	12.4	
30-Sep-07	5	5	5	6	6	6	6	6	7	7	7	8	8	9	10	11	8	8	6	7	9	8	7	6	7.1	11.4	
1-hr Average	9.8	9.5	9.7	10.0	9.6	9.4	9.8	10.3	11.6	14.1	15.2	14.8	15.0	15.1	15.7	16.5	15.5	14.9	13.1	11.1	11.0	10.9	10.2	9.6			
Hourly Max	31.4	26.7	27.4	29.0	27.9	26.5	26.9	26.0	24.2	27.2	29.7	28.8	28.4	26.0	27.8	31.0	29.9	27.5	25.9	20.7	19.8	20.6	21.1	27.6			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

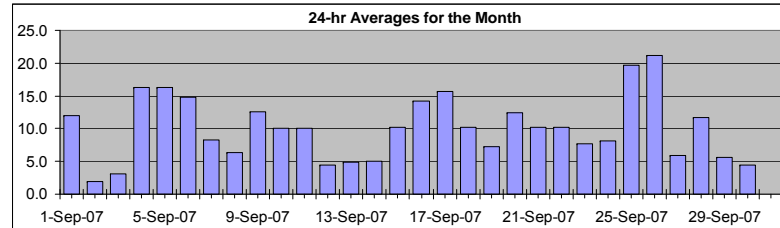
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	31.3	km/hr	26-Sep	0:00 1:00
Maximum 24-hr Value:	21.1	km/hr	26-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.4	24.0	14.9	9.9	7.1	3.9	2.1	47.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								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	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Sep-07	13	14	12	9	7	10	10	12	15	17	18	17	18	16	13	11	16	16	14	9	7	6	5	6		12.0	18.3	
2-Sep-07	6	2	4	4	4	2	3	4	4	9	7	5	5	2	7	12	9	6	7	6	6	6	4	4		1.9	12.2	
3-Sep-07	10	5	2	4	2	4	5	6	7	5	4	4	5	4	7	10	8	7	8	8	9	6	8	12		3.1	11.8	
4-Sep-07	9	5	10	8	7	9	9	10	13	21	25	22	20	22	23	27	28	27	24	19	16	15	17	15		16.3	28.5	
5-Sep-07	13	13	11	7	12	11	10	11	9	14	21	19	22	25	20	21	22	21	19	13	20	19	21	15		16.3	25.1	
6-Sep-07	13	12	16	16	17	10	12	14	18	17	23	20	20	19	18	17	16	15	11	15	14	13	8	5		14.8	22.6	
7-Sep-07	8	9	8	8	8	8	7	11	12	14	17	16	8	11	12	13	10	10	10	4	8	7	6	10		8.2	17.2	
8-Sep-07	5	4	7	7	7	7	9	8	8	8	8	9	7	6	11	11	11	9	5	2	7	8	8	7		6.4	11.4	
9-Sep-07	10	10	8	8	7	8	5	7	8	14	19	20	17	18	22	23	24	22	21	17	17	15	15	10		12.5	23.7	
10-Sep-07	10	9	7	8	8	8	8	10	10	10	11	11	10	9	8	7	4	14	12	10	11	17	16	13		10.1	17.2	
11-Sep-07	8	9	6	8	7	5	7	7	9	13	14	7	13	12	14	17	17	18	14	14	12	13	11	10		10.1	17.8	
12-Sep-07	9	9	11	9	10	8	8	10	13	12	14	12	11	8	5	9	2	5	8	7	7	8	10	8		4.4	13.9	
13-Sep-07	7	5	3	6	6	6	6	6	3	5	8	8	7	2	6	6	6	4	7	7	7	7	6	2		4.9	7.8	
14-Sep-07	5	6	5	6	5	7	7	6	7	8	11	8	6	9	11	13	9	6	5	3	3	4	4	4		5.0	13.0	
15-Sep-07	2	5	6	7	7	6	8	7	8	8	8	11	18	24	27	24	22	14	13	14	19	21	16	10		10.1	26.9	
16-Sep-07	10	12	13	13	8	2	7	4	10	17	15	20	19	16	15	23	25	27	26	21	18	18	14	12		14.2	27.3	
17-Sep-07	10	8	7	7	8	9	14	13	19	26	29	28	28	26	24	23	22	23	18	18	15	6	10	11		15.7	29.3	
18-Sep-07	10	13	13	14	11	10	9	11	13	12	10	10	11	10	11	12	12	11	10	8	8	7	6	5		10.2	13.9	
19-Sep-07	3	6	6	7	7	8	8	8	10	10	11	12	11	8	9	10	8	11	12	10	16	10	9	8		7.3	16.0	
20-Sep-07	7	4	9	19	14	16	20	18	15	21	21	22	19	21	22	16	12	9	12	8	8	7	6	5		12.4	22.3	
21-Sep-07	4	6	7	8	9	9	8	8	8	9	13	11	13	19	23	24	21	24	19	16	15	15	11	11		10.2	24.5	
22-Sep-07	7	10	9	8	8	9	10	10	13	16	16	19	20	20	19	18	17	14	11	10	6	5	3	7		10.2	19.9	
23-Sep-07	9	8	9	9	8	9	9	9	10	14	10	10	9	9	6	6	3	5	7	7	7	8	7	8		7.8	13.7	
24-Sep-07	8	7	7	6	6	6	6	6	8	10	10	7	13	16	13	11	12	18	16	14	13	16	14	13		8.2	18.1	
25-Sep-07	15	17	20	18	19	17	14	18	20	23	25	22	22	21	24	31	30	24	19	12	10	13	17	27		19.7	30.8	
26-Sep-07	31	27	27	29	28	26	27	26	24	27	29	28	27	24	28	26	23	23	15	13	6	6	6	7		21.1	31.3	
27-Sep-07	8	7	8	10	10	7	10	13	14	16	11	9	9	10	7	14	16	17	12	11	7	8	7	6		5.9	16.7	
28-Sep-07	6	9	10	11	13	14	12	10	11	16	16	15	18	18	16	15	14	16	13	10	10	12	8	8		11.7	18.5	
29-Sep-07	10	8	8	7	3	4	7	9	11	12	12	12	10	10	11	11	7	8	7	6	4	4	7	5		5.6	12.2	
30-Sep-07	4	3	2	5	5	4	6	3	1	5	6	8	7	8	9	11	8	8	6	7	8	7	6	6		4.5	10.7	
1-hr Vector	5.3	5.5	5.8	4.8	4.7	4.4	4.7	5.1	6.1	7.9	9.2	9.8	10.6	10.3	10.8	12.8	11.7	11.4	8.8	6.7	6.2	5.5	5.4	4.6				
Hourly Max	31.3	26.6	27.3	28.9	27.8	26.4	26.8	25.9	24.0	27.0	29.5	28.4	28.2	25.7	27.5	30.8	29.6	27.3	25.7	20.6	19.6	20.5	21.0	27.5				

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	344.7	317.9	264.4	241.0	161.9	89.6	56.7	246 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		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	242	243	238	241	240	231	253	246	240	245	243	251	253	272	221	209	254	251	257	237	203	171	222	198	241	WSW
2-Sep-07	186	82	294	150	307	296	256	261	307	264	267	261	151	352	141	257	345	335	13	60	90	62	157	182	277	W
3-Sep-07	232	299	127	92	323	141	150	165	151	132	178	193	232	179	144	146	83	87	95	89	96	105	299	307	145	SE
4-Sep-07	321	283	242	226	211	223	219	225	231	243	244	264	266	257	260	244	244	252	243	237	234	236	238	236	246	WSW
5-Sep-07	237	236	245	273	256	236	228	232	286	251	244	248	249	244	245	260	255	241	239	258	246	244	244	247	247	WSW
6-Sep-07	241	238	241	238	242	244	231	239	241	253	276	277	270	274	266	276	271	261	265	253	240	239	236	243	255	WSW
7-Sep-07	261	272	261	272	264	252	225	239	239	283	303	292	267	355	341	297	272	282	222	255	203	172	247	178	267	W
8-Sep-07	280	202	195	272	294	296	249	241	237	252	242	245	247	251	247	272	295	319	303	261	158	163	155	192	250	WSW
9-Sep-07	224	211	193	136	118	99	117	180	229	258	244	250	241	240	241	240	240	241	239	234	236	239	236	247	232	SW
10-Sep-07	275	254	270	276	271	247	248	244	266	252	227	228	223	211	234	202	230	246	245	224	222	240	244	243	242	WSW
11-Sep-07	258	268	283	272	213	244	255	298	311	331	346	302	262	276	261	245	261	290	276	289	303	313	304	308	284	WNW
12-Sep-07	305	294	307	297	296	303	311	316	321	317	326	315	300	268	245	223	159	296	161	144	111	83	94	98	301	WNW
13-Sep-07	96	95	158	148	153	159	161	127	179	171	187	206	225	209	215	233	259	162	153	114	124	133	108	180	166	SSE
14-Sep-07	145	195	250	300	262	217	210	208	212	212	222	254	258	243	273	272	285	290	216	188	63	123	274	131	238	WSW
15-Sep-07	175	172	167	162	161	144	150	174	200	196	194	219	250	275	273	268	271	255	258	271	257	246	246	287	244	WSW
16-Sep-07	263	239	257	304	294	112	157	160	225	251	244	245	240	242	234	249	249	246	240	237	236	235	263	238	244	WSW
17-Sep-07	264	259	242	255	275	245	231	235	242	248	250	247	250	252	254	256	257	245	247	245	248	339	354	349	254	WSW
18-Sep-07	336	337	326	340	334	316	311	318	316	324	325	319	302	294	298	314	297	294	288	292	313	323	350	338	316	NW
19-Sep-07	24	102	97	102	93	100	101	92	111	122	161	156	154	173	165	191	172	134	152	159	243	219	148	161	149	SSE
20-Sep-07	141	315	282	251	260	250	247	248	260	254	263	275	297	319	312	268	261	299	312	292	291	284	245	193	272	W
21-Sep-07	177	145	142	143	120	118	136	151	135	115	147	145	190	224	225	231	225	243	231	212	209	221	213	208	198	SSW
22-Sep-07	259	248	229	236	266	248	267	261	250	293	293	296	300	301	301	294	299	299	333	338	304	310	86	83	288	WNW
23-Sep-07	83	78	89	97	92	99	78	80	95	104	109	110	114	114	111	125	118	210	129	108	135	161	175	150	111	ESE
24-Sep-07	148	136	124	126	129	137	112	120	124	162	151	176	214	250	235	213	227	235	220	220	212	217	230	223	199	SSW
25-Sep-07	226	235	239	230	239	252	275	251	242	244	251	257	261	261	254	246	251	250	248	229	229	232	225	239	246	WSW
26-Sep-07	242	240	244	247	244	248	250	255	249	256	267	266	262	255	245	248	258	258	247	239	204	172	120	135	248	WSW
27-Sep-07	133	130	120	105	96	70	92	87	92	103	120	100	112	143	188	234	235	235	221	244	196	182	172	109	146	SE
28-Sep-07	150	230	243	264	259	258	275	288	287	295	288	280	275	276	285	300	301	297	301	301	319	318	322	312	285	WNW
29-Sep-07	318	309	322	309	344	77	94	86	85	85	93	92	94	95	104	99	105	141	136	55	27	63	121	105	83	E
30-Sep-07	146	269	252	106	91	118	59	110	143	319	17	25	60	88	100	115	107	86	90	56	74	58	356	1	78	ENE
Hourly Avg	241	242	242	244	250	231	230	234	240	252	252	256	252	258	250	248	255	255	243	242	232	231	234	229		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	80.7	58.1	24.1	13.7	8.9	6.0	5.1

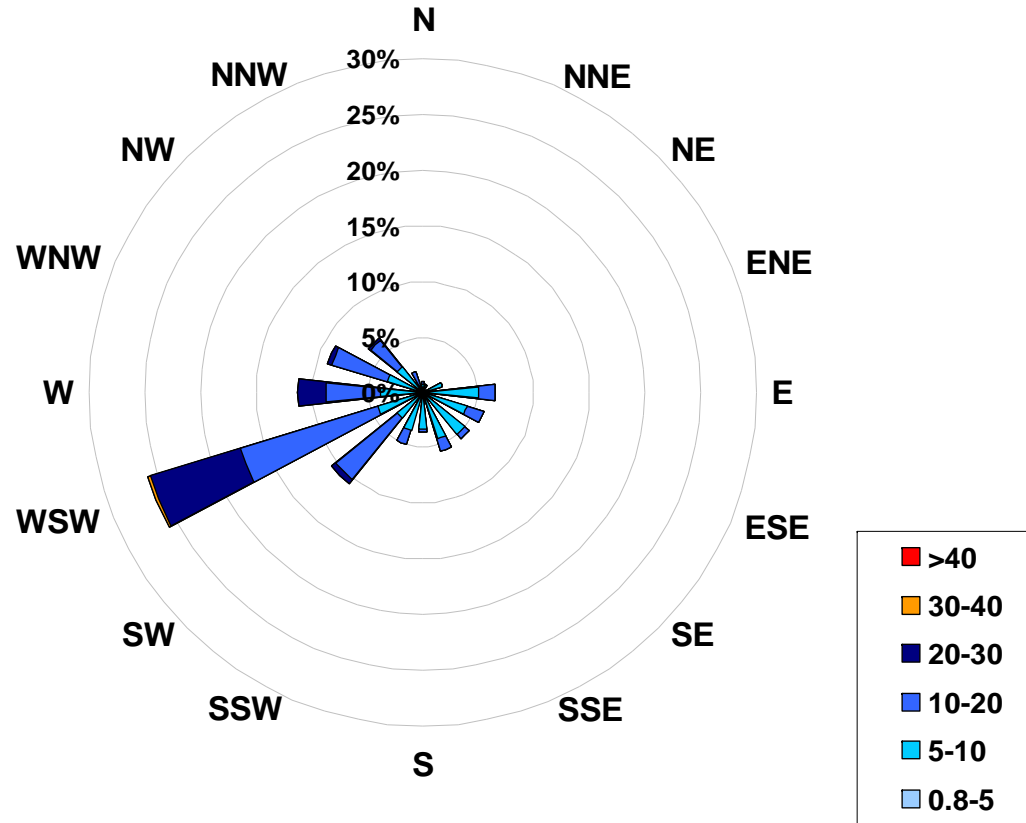
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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	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-Sep-07	8	5	6	14	26	12	11	8	8	8	10	15	12	14	33	33	12	10	6	18	20	36	50	21		50.0	
2-Sep-07	27	64	49	69	70	86	68	71	74	19	35	55	56	92	54	62	29	45	26	25	11	26	72	61		91.8	
3-Sep-07	18	34	75	36	72	42	18	22	20	46	70	63	52	75	56	32	19	21	9	9	6	43	38	20		75.3	
4-Sep-07	26	51	8	14	12	11	13	13	12	5	7	11	9	9	13	8	8	7	6	6	6	8	6	7		51.1	
5-Sep-07	7	8	29	32	27	16	10	9	30	11	8	11	8	7	10	9	8	7	5	12	7	5	6	14		31.9	
6-Sep-07	8	10	7	6	5	16	22	7	6	8	7	9	14	14	10	18	15	9	18	14	12	8	15	53		52.5	
7-Sep-07	19	12	16	17	18	15	13	6	10	26	10	13	39	21	29	17	22	14	15	66	20	18	61	18		66.0	
8-Sep-07	82	60	25	31	18	15	11	12	16	16	20	29	46	41	26	26	25	37	36	67	14	7	7	28		82.4	
9-Sep-07	9	9	23	9	15	11	33	18	27	18	10	9	17	11	9	10	8	6	6	6	7	7	8	24		32.6	
10-Sep-07	11	16	15	10	12	13	15	17	11	13	19	17	22	25	33	40	65	25	8	13	8	5	6	12		64.9	
11-Sep-07	21	32	29	13	18	43	37	28	17	19	12	38	15	5	10	5	10	8	7	13	8	12	11	12		43.0	
12-Sep-07	7	11	6	16	5	15	7	9	10	13	11	18	25	32	51	32	91	60	36	13	22	9	7	9		90.7	
13-Sep-07	8	54	55	19	9	8	8	16	52	36	30	25	34	83	37	45	45	54	10	9	15	11	11	70		82.8	
14-Sep-07	41	19	24	19	28	15	8	14	13	16	14	24	52	23	17	9	14	31	31	56	52	53	44	42		56.0	
15-Sep-07	71	21	17	12	10	18	8	18	19	23	19	13	11	8	7	7	6	8	8	5	8	6	8	35		70.7	
16-Sep-07	33	15	14	19	19	83	27	62	18	8	7	7	8	9	14	9	7	7	5	5	6	6	16	9		82.6	
17-Sep-07	8	19	32	34	22	35	8	8	7	7	8	9	7	8	9	8	8	6	5	6	11	54	14	9		53.5	
18-Sep-07	10	13	8	9	14	14	10	9	14	13	17	18	14	20	18	12	11	11	21	11	11	18	29	37		37.1	
19-Sep-07	54	26	16	11	12	8	8	10	18	20	22	27	26	46	33	29	34	16	10	7	31	45	15	19		53.6	
20-Sep-07	36	58	32	8	11	6	6	7	9	8	13	9	12	9	11	11	38	19	10	10	12	25	34	17		58.0	
21-Sep-07	63	18	14	11	13	10	24	11	15	13	11	14	27	13	11	16	11	10	20	8	9	8	10	15		62.5	
22-Sep-07	43	23	22	20	16	13	19	16	14	7	9	8	9	12	9	9	10	10	20	15	30	44	63	17		62.7	
23-Sep-07	9	9	11	9	12	10	8	12	10	9	14	21	27	29	48	47	75	46	14	14	17	18	22	10		75.5	
24-Sep-07	7	12	17	14	7	11	15	20	16	12	11	31	20	13	22	10	14	8	8	10	10	10	9	9		31.5	
25-Sep-07	9	7	5	7	6	8	8	8	6	7	8	11	11	12	9	7	7	6	11	10	9	9	10	6		12.1	
26-Sep-07	4	6	4	4	4	4	6	5	6	7	8	9	11	9	9	10	11	7	9	10	39	29	23	15		39.2	
27-Sep-07	13	11	20	6	8	12	11	5	8	7	15	12	23	14	36	10	10	10	21	17	42	19	26	26		42.1	
28-Sep-07	24	15	10	24	13	9	23	12	13	12	10	9	14	12	11	11	13	9	7	8	6	8	16	14		23.8	
29-Sep-07	9	8	8	18	64	29	23	14	9	11	13	15	23	19	23	17	37	21	21	34	64	55	21	19		64.0	
30-Sep-07	45	50	82	46	23	50	27	56	93	56	28	16	25	28	28	20	27	17	14	12	11	24	24	20		93.4	
Hourly Max	82	64	82	69	72	86	68	71	93	56	70	63	56	92	56	62	91	60	36	67	64	55	72	70			

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	12
5	to	10	323
10	to	20	296
20	to	30	87
30	to	40	2
	>	40	0
Total Non-Zero Values			720

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

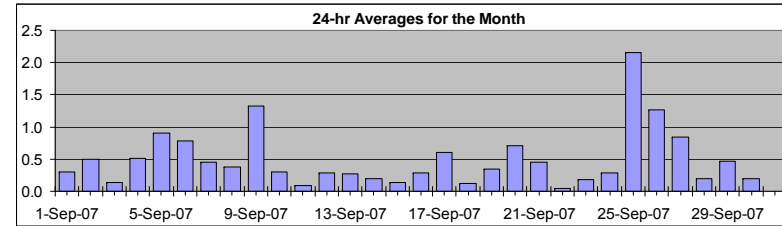
Sulphur Dioxide (SO₂)

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

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.6	ppb	17-Sep	8:00 9:00
Maximum 24-hr Average:	2.2	ppb	25-Sep	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.2	2.6	0.3	0.1	0.1	0.0	0.0	0.5 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Sep-07	0	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	2.3
2-Sep-07	0	0	0	0	0	0	0	0	0	0	0	1	4	2	2	0	0	0	0	A	0	0	0	0	0.5	4.2
3-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0.1	1.1
4-Sep-07	0	0	0	0	0	0	0	0	0	1	3	C	C	C	A	5	1	0	0	0	0	0	0	0	0.5	4.6
5-Sep-07	0	0	0	0	0	A	0	0	0	0	1	2	3	0	4	1	0	0	4	2	0	0	0	0	0.9	4.5
6-Sep-07	0	0	0	0	A	0	0	0	0	2	1	0	0	3	1	1	4	0	4	1	0	0	0	0	0.8	4.1
7-Sep-07	0	0	0	A	0	0	0	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.3
8-Sep-07	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.4
9-Sep-07	0	A	0	0	0	0	0	0	0	0	0	3	3	1	0	5	2	7	5	2	1	0	0	0	1.3	7.3
10-Sep-07	A	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	1	0	0	0	0	0	A	0.3	1.9
11-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.3
12-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0.3	1.0
13-Sep-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	A	0	0	0	0.3	0.8
14-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	A	0	0	0	0.2	0.7
15-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	A	0	0	0	0	0	0.1	1.8
16-Sep-07	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	A	0	0	0	0	0	0	0.3	2.1
17-Sep-07	0	0	0	0	0	0	0	0	0	8	1	0	3	2	0	0	0	A	0	0	0	0	0	0	0.6	7.6
18-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.3
19-Sep-07	0	0	0	0	0	0	0	0	2	4	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	3.5
20-Sep-07	0	0	0	0	0	0	1	1	1	5	2	0	0	A	0	1	3	0	0	0	0	0	0	0	0.7	4.7
21-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	5	2	0	0	0	0	0	0	0	0.5	5.0
22-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
23-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	1	1	1	0	0	0	0	0	0	0.2	0.9
24-Sep-07	0	0	0	0	0	0	0	0	0	A	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0.3	2.3
25-Sep-07	0	0	0	0	0	0	0	5	A	7	6	4	4	6	1	0	7	7	0	0	0	0	0	0	2.2	7.2
26-Sep-07	0	0	0	0	0	0	0	A	2	7	2	2	4	1	6	1	2	0	0	0	0	0	0	0	1.3	7.2
27-Sep-07	0	0	0	0	0	0	A	0	0	0	4	3	3	5	1	1	0	0	0	0	0	0	0	0	0.8	4.8
28-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.9
29-Sep-07	2	3	1	0	A	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	2.8
30-Sep-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
Hourly Avg	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.7	1.2	1.1	1.0	1.0	1.1	1.1	0.6	1.0	0.9	0.4	0.2	0.1	0.1	0.1	0.1		
Hourly Max	1.9	2.8	1.0	0.3	0.2	0.3	1.0	4.9	7.6	7.2	6.0	3.7	4.4	6.4	6.2	4.6	7.3	7.2	4.1	0.8	0.2	0.4	0.3	0.9		

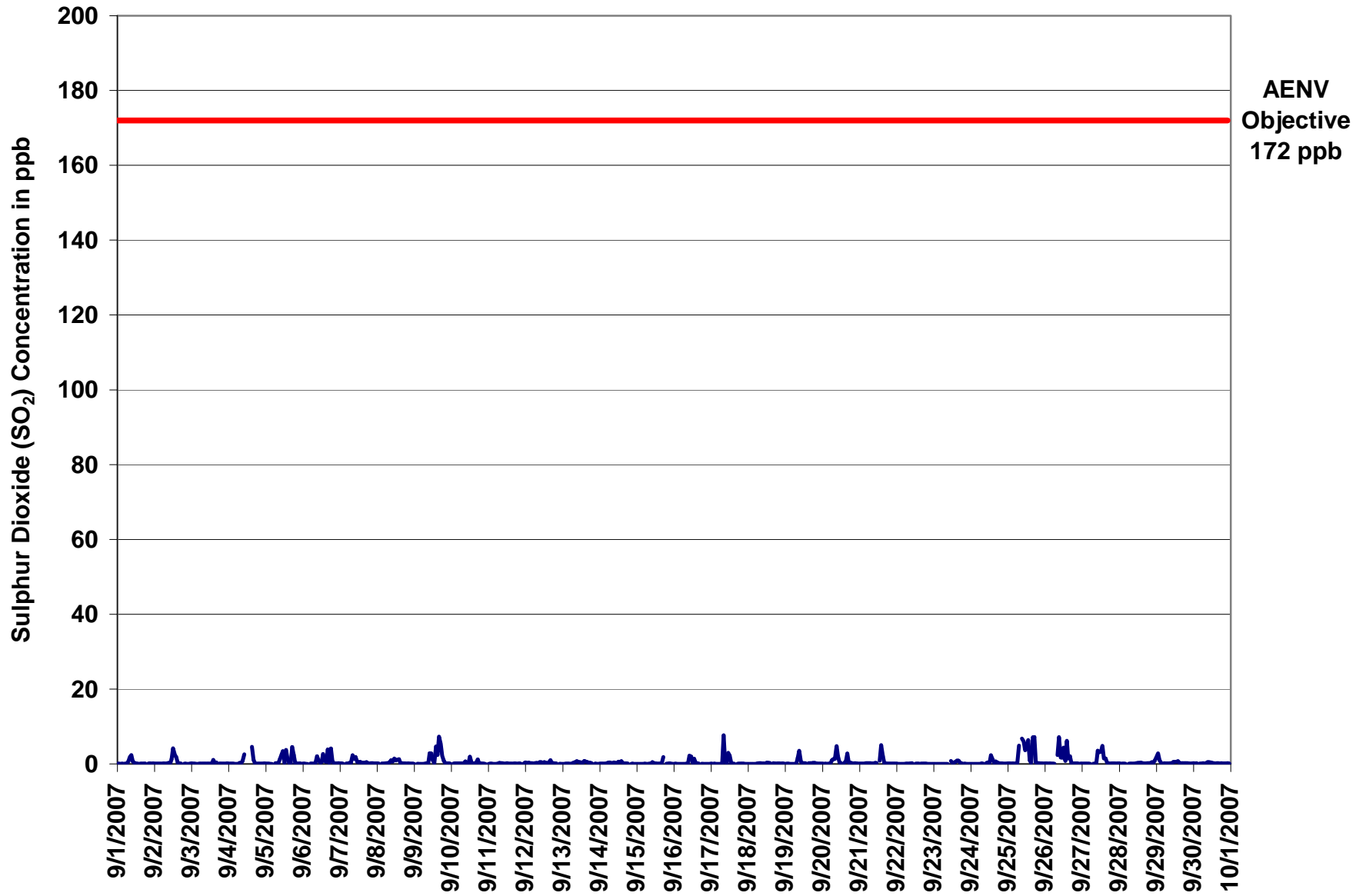


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

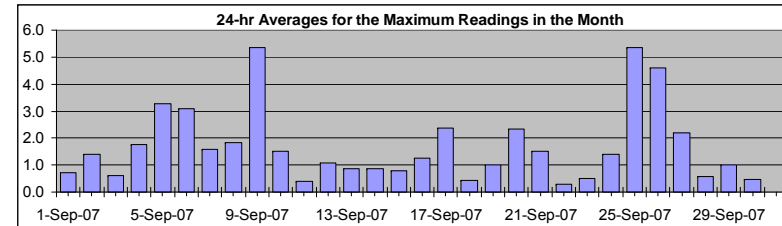
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	21.6	ppb	9-Sep	17:00 18:00
Maximum 24-hr Value:	5.4	ppb	9-Sep	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.1	9.8	0.6	0.4	0.3	0.2	0.2	1.7 ppb	0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0	0	0	0	0	0	0	2	3	3	2	1	0	1	0	0	0	0	1	A	0	0	0	0	0.7	3.1
2-Sep-07	0	0	0	0	0	0	0	0	1	1	0	8	11	3	3	1	0	0	A	0	0	0	0	0	1.4	10.5
3-Sep-07	0	0	0	0	0	0	0	0	0	1	1	0	0	1	5	1	1	A	0	0	0	0	0	1	0.6	5.0
4-Sep-07	0	0	0	0	0	0	0	1	1	2	4	C	C	C	A	12	12	0	0	0	0	0	0	0	1.8	12.1
5-Sep-07	1	0	0	0	0	A	0	1	0	6	8	13	1	10	8	1	1	12	11	0	0	0	0	0	3.3	13.4
6-Sep-07	0	0	0	0	A	0	0	0	0	5	6	4	3	9	6	5	13	1	12	3	1	0	0	1	3.1	12.8
7-Sep-07	0	0	0	A	0	0	1	0	12	4	8	1	1	1	1	0	1	3	0	0	0	0	0	0	1.6	12.3
8-Sep-07	0	0	A	0	0	0	0	1	1	3	2	8	6	8	7	1	1	0	0	0	0	0	0	0	1.8	8.5
9-Sep-07	0	A	0	0	0	0	0	0	1	1	15	11	9	0	18	14	18	22	7	5	1	0	0	0	5.4	21.6
10-Sep-07	A	0	0	0	0	0	0	0	1	3	0	2	8	2	0	0	3	9	1	0	0	0	A	0	1.5	8.7
11-Sep-07	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0.4	0.6
12-Sep-07	1	0	1	1	0	1	1	1	0	1	1	1	2	2	0	4	7	1	1	0	1	A	0	0	1.1	7.0
13-Sep-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	7	2	1	1	1	0	A	0	0	0	0.9	6.8
14-Sep-07	1	0	0	0	1	1	1	1	0	3	1	1	3	2	3	1	1	0	0	A	0	0	0	0	0.9	2.9
15-Sep-07	0	0	0	0	0	0	0	0	0	1	2	1	1	0	1	0	0	8	A	0	0	0	0	0	0.8	7.9
16-Sep-07	0	0	0	0	1	0	0	0	0	0	6	8	1	7	1	0	0	A	0	0	0	0	0	0	1.2	8.1
17-Sep-07	0	0	0	0	0	0	0	0	18	6	0	16	10	0	0	0	A	0	0	0	0	0	0	0	2.4	17.6
18-Sep-07	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	A	1	1	0	0	0	0	0	0	0.4	0.8
19-Sep-07	0	0	0	0	0	0	0	0	7	6	2	0	0	2	A	0	0	0	0	1	1	0	0	0	1.0	7.1
20-Sep-07	0	0	0	0	0	0	5	3	5	10	8	3	1	A	1	5	9	1	1	0	0	1	0	0	2.3	9.9
21-Sep-07	0	0	0	0	1	0	0	1	1	0	1	1	A	4	13	9	1	0	0	0	0	0	0	0	1.5	13.4
22-Sep-07	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.7
23-Sep-07	0	0	0	0	0	0	0	0	0	0	A	2	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.9
24-Sep-07	0	0	0	0	0	0	0	0	0	A	1	1	1	10	8	1	5	2	1	1	1	1	0	0	1.4	9.5
25-Sep-07	0	0	0	0	0	0	0	11	A	12	13	12	15	15	9	1	16	15	1	0	1	1	0	0	5.4	15.8
26-Sep-07	0	0	0	0	0	0	0	A	12	13	9	12	11	7	16	10	10	1	0	0	1	0	0	0	4.6	15.8
27-Sep-07	1	0	0	1	1	0	A	0	0	0	6	5	8	7	7	10	1	1	0	0	0	0	0	0	2.2	9.5
28-Sep-07	1	0	0	0	0	A	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	2	0.6	2.0
29-Sep-07	4	4	2	1	A	1	0	1	0	1	1	2	1	1	2	1	1	1	1	1	0	0	0	0	1.0	3.9
30-Sep-07	0	0	1	A	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0.5	0.8
Hourly Avg	0.5	0.4	0.4	0.3	0.3	0.3	0.6	0.9	2.3	2.9	3.4	4.1	3.4	3.5	4.3	2.8	3.6	2.9	1.5	0.6	0.4	0.4	0.3	0.4		
Hourly Max	3.9	3.8	2.0	0.5	0.6	0.8	5.4	10.7	17.6	13.0	14.6	15.9	14.8	15.0	17.9	13.6	17.9	21.6	12.4	5.0	0.6	1.1	1.1	2.0		

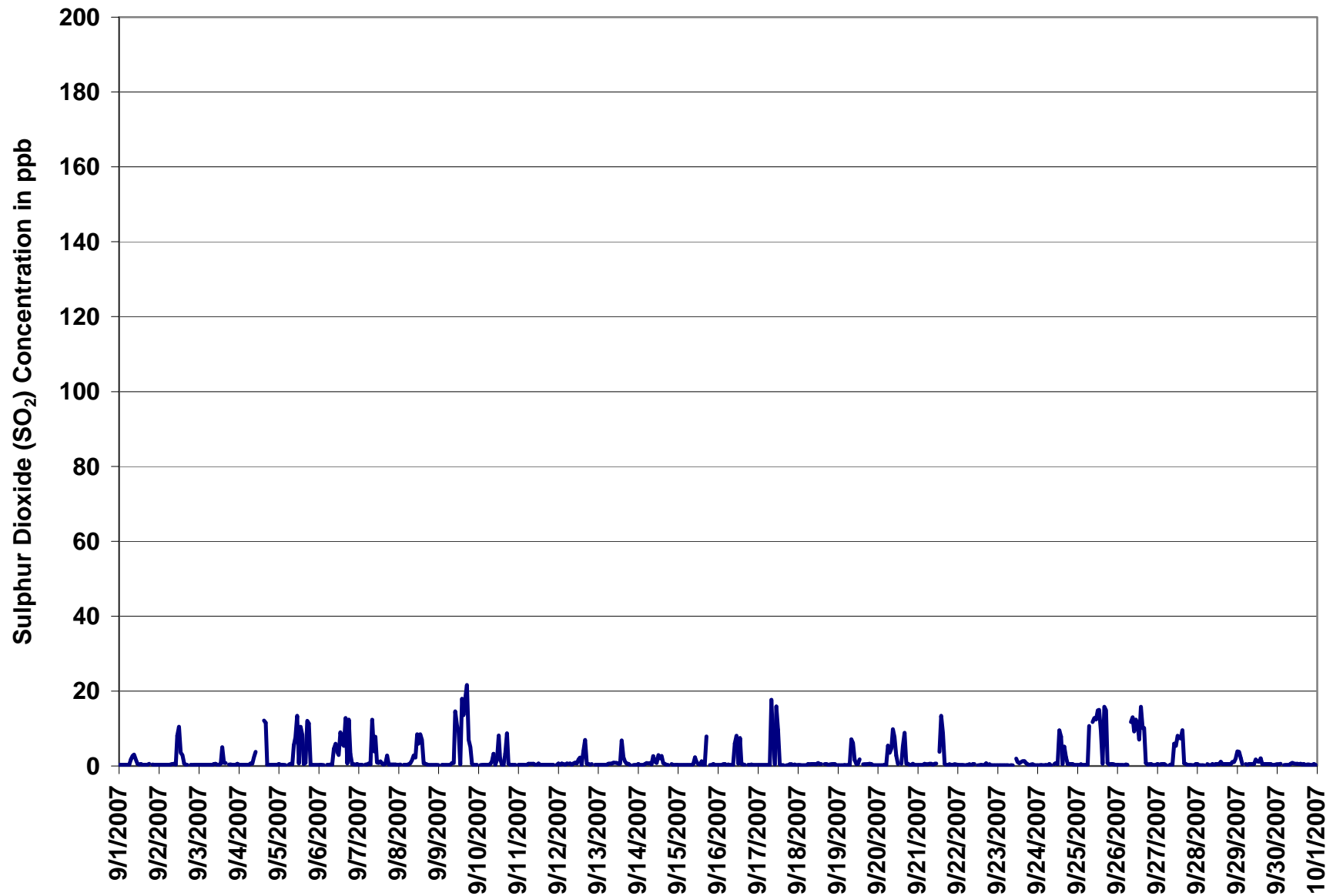
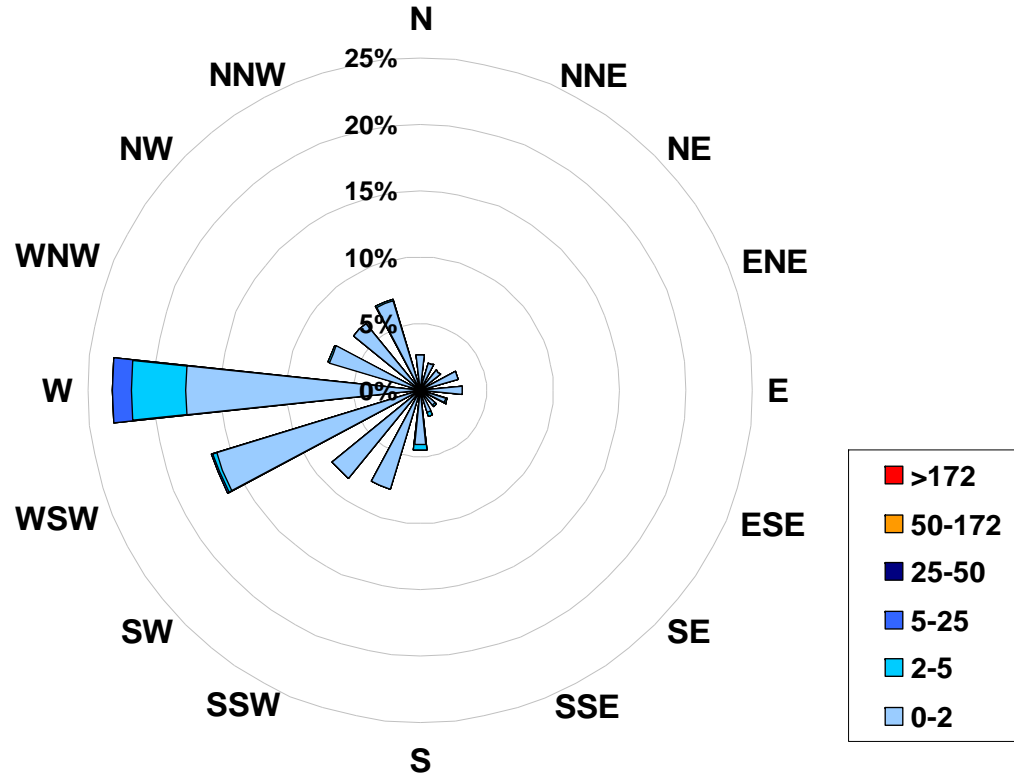


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	636	
2	to 5	39	
5	to 25	11	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			686

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

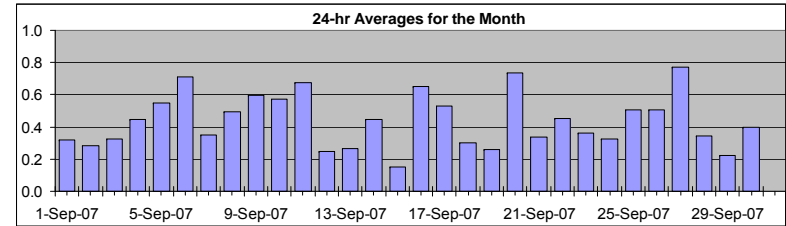
Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	2.1	ppb	22-Sep	7:00 8:00
Maximum 24-hr Value:	0.8	ppb	27-Sep	

AIC Time:	30 hrs	Operational Time:	687 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	0.9	0.6	0.4	0.2	0.0	0.0	0.4 ppb	0.4 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 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-Sep-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.6
2-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0.3	0.5
3-Sep-07	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0.3	1.0
4-Sep-07	1	1	0	0	0	0	0	1	1	0	1	1	1	0	C	C	C	0	0	0	0	0	1	0	0.4	1.5
5-Sep-07	0	0	0	0	0	A	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.5	1.0
6-Sep-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.7	1.1
7-Sep-07	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.9
8-Sep-07	1	1	A	0	0	1	1	1	0	0	0	0	0	1	1	1	0	1	0	1	0	1	1	1	0.5	0.7
9-Sep-07	0	A	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0.6	1.4
10-Sep-07	A	1	0	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	0	1	1	A	0.6	0.8
11-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	0.7	0.8
12-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
13-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0.3	0.9
14-Sep-07	1	0	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.8
15-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0.2	0.6
16-Sep-07	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	A	1	0	1	1	1	0	0.7	1.0
17-Sep-07	0	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	A	0	1	0	1	1	1	1	0.5	1.4
18-Sep-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	1	1	0.3	0.8
19-Sep-07	1	0	0	0	0	0	0	0	0	1	0	1	0	0	A	0	0	0	0	0	0	0	1	1	0.3	1.0
20-Sep-07	1	1	1	1	1	1	1	1	1	2	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0.7	1.9
21-Sep-07	0	0	0	1	1	1	1	1	0	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0.3	0.7
22-Sep-07	0	0	0	0	0	0	0	0	2	1	0	1	A	0	0	0	0	0	0	1	0	0	0	0	0.5	2.1
23-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	1	1	0	0	0	1	1	1	0	0.4	0.8
24-Sep-07	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.6
25-Sep-07	0	0	0	0	0	0	2	1	A	1	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0.5	1.6
26-Sep-07	0	0	1	1	0	0	1	A	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	0.5	1.2
27-Sep-07	1	1	0	1	1	0	A	1	1	1	2	1	1	1	1	1	1	1	0	1	0	1	1	1	0.8	1.6
28-Sep-07	1	0	0	0	0	A	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.9
29-Sep-07	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
30-Sep-07	1	1	1	A	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.9
Hourly Avg	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4		
Hourly Max	0.9	0.9	0.9	0.9	0.9	0.8	1.6	2.1	1.4	1.9	1.6	1.5	0.9	1.2	0.9	1.2	1.1	1.0	1.1	1.0	0.9	0.9	1.0	1.0		

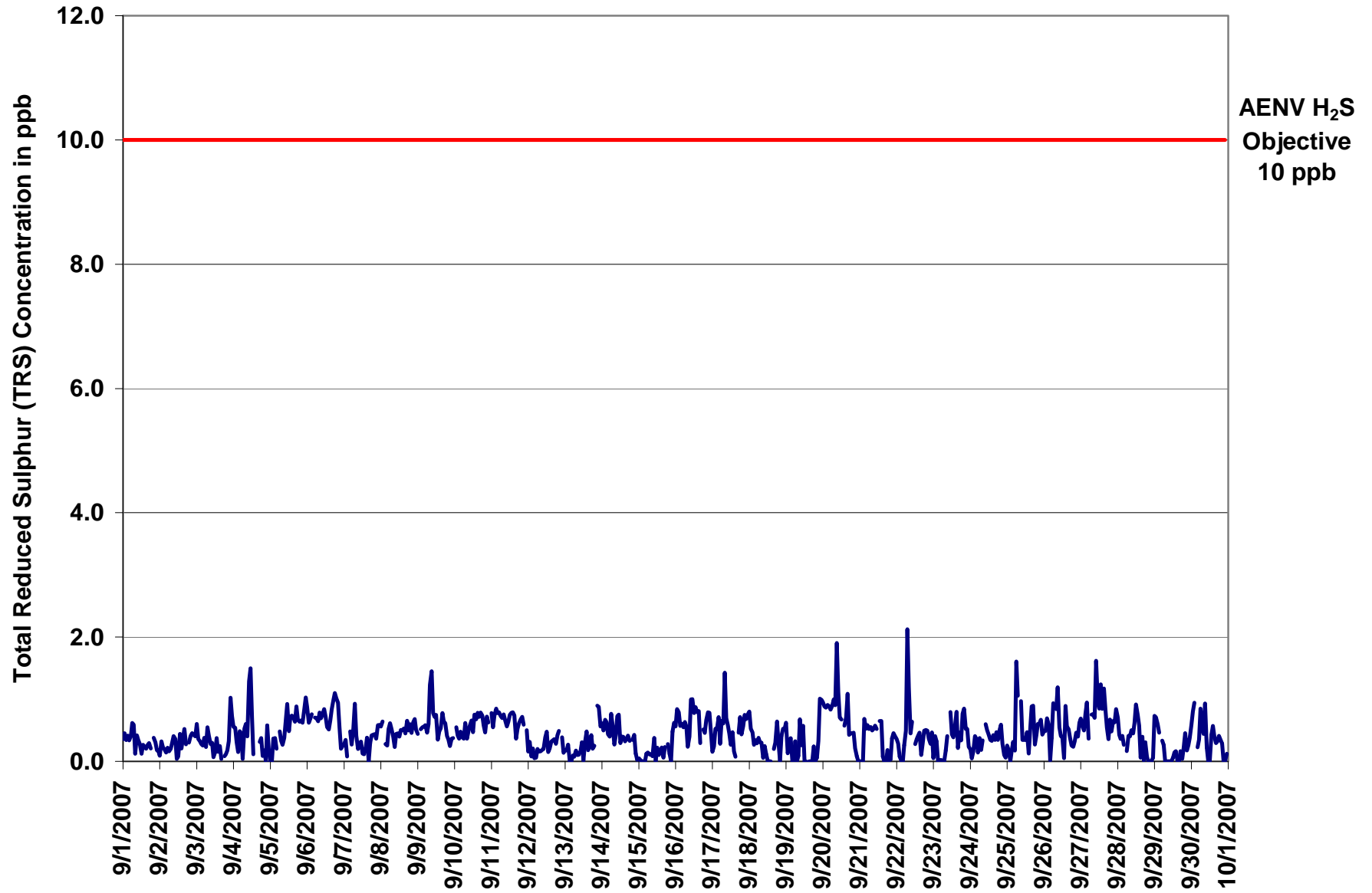


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

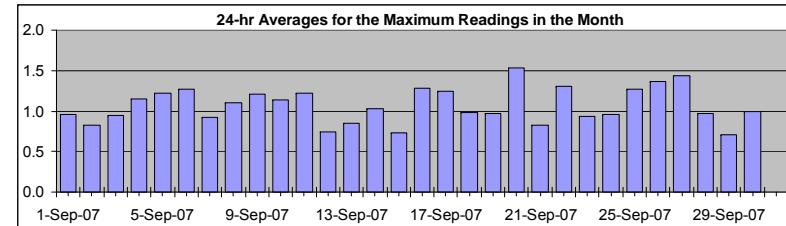
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	6.7	ppb	22-Sep	7:00 8:00
Maximum 24-hr Value:	1.5	ppb	20-Sep	

AIC Time:	30 hrs	Operational Time:	687 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	1.8	1.2	1.0	0.8	0.5	0.4	1.1 ppb	1.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.3
2-Sep-07	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.2
3-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	2	1	1	0.9	2.1
4-Sep-07	1	1	1	1	1	1	0	1	1	1	3	3	3	1	C	C	C	1	1	1	1	1	1	1	1.2	2.7
5-Sep-07	1	0	1	1	1	A	1	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	2	1	1.2	1.7
6-Sep-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1.3	1.6
7-Sep-07	1	1	1	A	1	1	1	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.9	1.6
8-Sep-07	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.0
9-Sep-07	1	A	1	1	1	1	1	1	3	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1.2	2.6
10-Sep-07	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1.1	1.6
11-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	1.4
12-Sep-07	1	1	1	1	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	0	0.7	1.7
13-Sep-07	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	2	1	0.9	1.6
14-Sep-07	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.5
15-Sep-07	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.3
16-Sep-07	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	A	1	1	1	1	1	1	1.3	2.2
17-Sep-07	1	1	1	1	1	1	1	1	3	1	1	1	2	1	1	1	A	1	1	1	1	1	1	1	1.2	3.2
18-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.0	1.4
19-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.0	1.4
20-Sep-07	1	1	1	1	1	1	2	2	2	4	3	1	1	A	1	2	3	1	1	1	1	1	1	1	1.5	4.1
21-Sep-07	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0	1	0	1	1	1	1	0.8	1.3
22-Sep-07	1	1	1	1	1	1	1	7	4	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.3	6.7
23-Sep-07	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
24-Sep-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.0	1.7
25-Sep-07	1	1	1	1	1	1	3	3	A	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1.3	3.0
26-Sep-07	1	1	1	1	1	1	2	A	2	2	2	2	3	1	2	2	1	1	1	1	1	1	1	1	1.4	2.6
27-Sep-07	1	1	1	1	2	1	A	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1.4	2.4
28-Sep-07	1	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1.0	1.5
29-Sep-07	1	1	1	1	A	1	1	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0.7	1.1
30-Sep-07	1	1	2	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1.0	1.7
Hourly Avg	1.0	1.0	0.9	1.0	0.9	1.0	1.2	1.4	1.2	1.2	1.3	1.2	1.2	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Hourly Max	1.4	1.3	1.5	1.4	1.9	1.4	3.0	6.7	4.3	4.1	3.4	2.6	2.6	2.0	1.9	2.4	2.6	1.7	1.6	1.6	1.3	2.1	1.8	1.6		

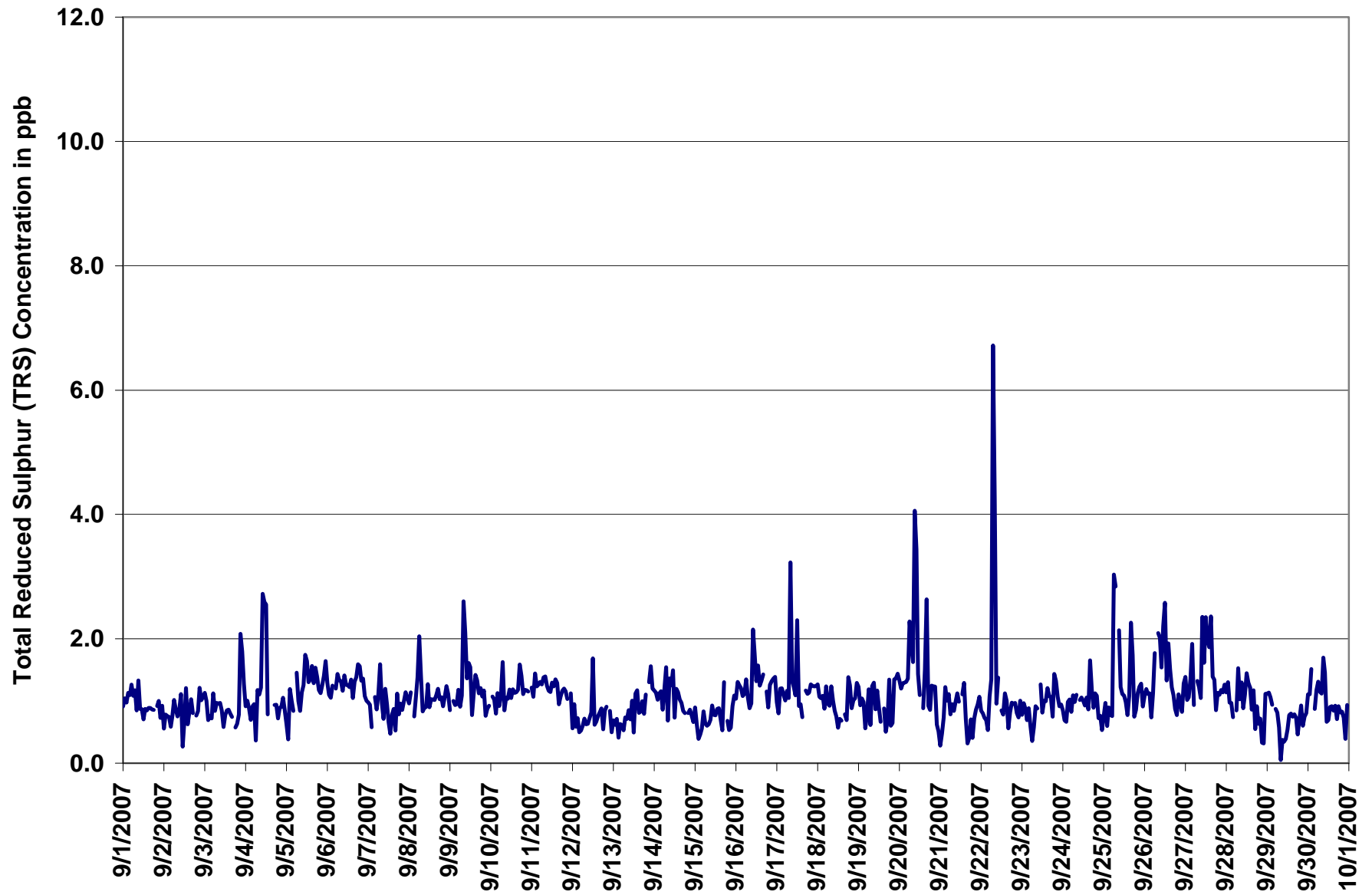
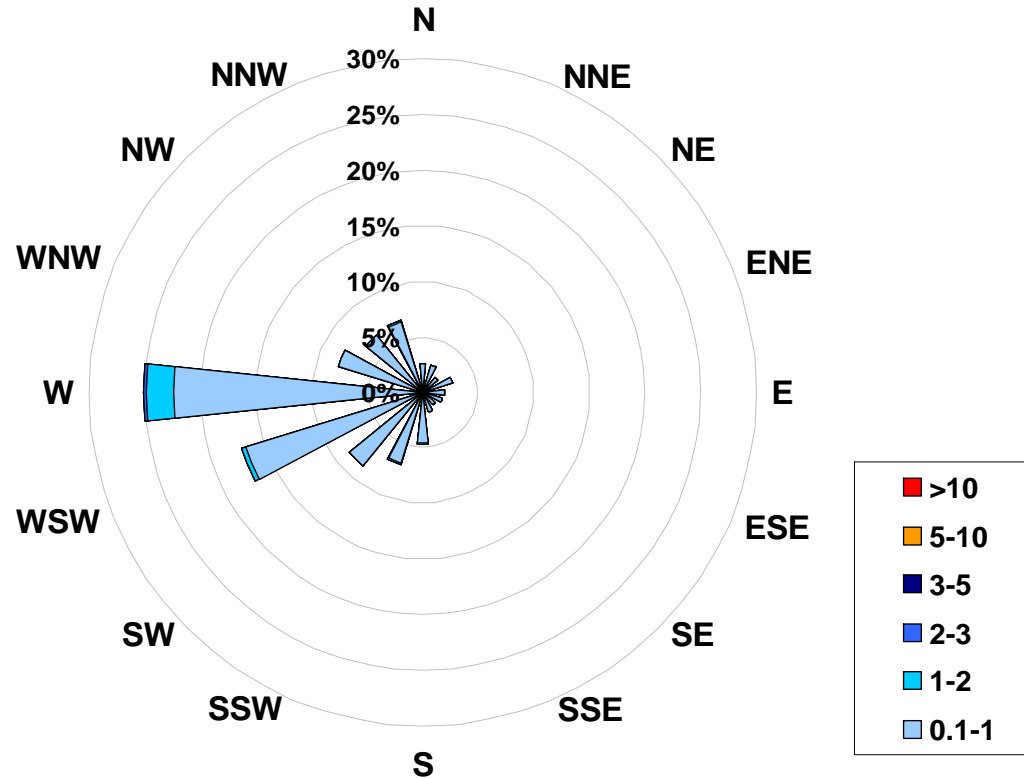


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
 Located at the Evergreen Park Site for September 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	665
1	to	2	21
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			687

PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

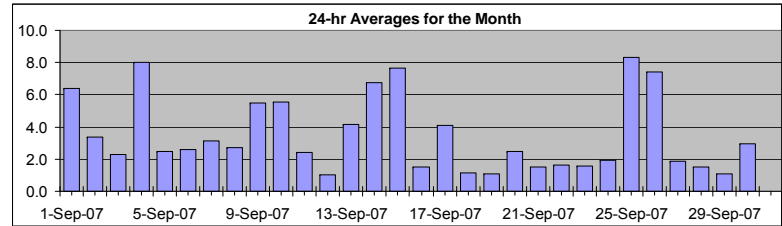
Particulate Matter (PM_{2.5})

Monitoring Dates: September 1, 2007 to October 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:	48.7 µg/m ³ 4-Sep 10:00 11:00
Maximum 24-hr Value:	8.3 µg/m ³ 25-Sep

AIC Time:	0 hrs	Operational Time:	712 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.3%
Percentile 99	95	Percentile 75	50
Percentile 27.1	12.0	Percentile 4.2	1.7
Percentile 0.4	0.0	Percentile 0.0	0.0
Average / Median		3.4 2 µg/m ³	
Geomean		2.8 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																								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-Sep-07	4	0	1	1	1	1	2	20	35	43	8	5	4	4	0	1	3	4	2	4	4	4	4	2	6.4	42.8
2-Sep-07	3	2	2	4	3	3	4	5	3	2	3	1	4	5	2	14	2	1	3	2	2	4	4	5	3.4	13.6
3-Sep-07	4	3	1	1	2	2	3	5	4	2	1	2	0	D	5	0	2	6	0	2	2	3	2	0	2.3	6.1
4-Sep-07	0	2	1	1	1	1	2	2	1	15	49	46	C	C	C	19	27	2	0	0	0	0	0	0	8.0	48.7
5-Sep-07	0	0	0	0	0	0	2	1	4	7	7	9	0	10	0	2	1	14	1	0	0	0	0	0	2.5	14.2
6-Sep-07	0	0	0	0	1	2	2	2	2	8	2	0	0	9	2	3	19	0	9	0	0	0	0	0	2.6	19.3
7-Sep-07	0	0	0	0	0	1	6	8	16	5	5	1	1	0	1	2	4	10	3	6	2	0	3	1	3.1	16.1
8-Sep-07	2	1	0	1	1	1	4	4	8	8	4	5	3	2	2	0	1	1	4	1	3	3	4	2	2.7	8.0
9-Sep-07	1	1	1	1	2	4	3	6	3	5	15	11	3	7	15	10	24	12	6	2	1	1	0	1	5.5	23.8
10-Sep-07	2	1	1	2	2	3	5	8	6	12	8	8	13	6	5	6	8	12	8	10	2	2	1	2	5.5	13.1
11-Sep-07	1	2	0	1	0	1	4	16	12	7	1	3	3	2	1	1	1	0	0	1	0	0	0	0	2.4	16.4
12-Sep-07	0	0	0	0	0	0	1	2	0	1	0	0	2	1	1	2	4	1	1	3	4	1	1	0	1.0	4.1
13-Sep-07	0	0	0	1	1	1	2	8	6	6	5	4	6	7	6	5	4	3	7	5	7	6	6	4	4.2	7.7
14-Sep-07	5	5	6	4	4	5	10	12	6	6	6	6	10	8	7	3	6	9	11	8	8	7	5	5	6.8	11.6
15-Sep-07	4	5	4	9	24	24	13	8	5	2	6	7	8	5	2	9	6	18	7	4	9	2	2	1	7.7	24.2
16-Sep-07	1	1	0	0	0	1	4	4	4	3	11	6	0	0	0	0	0	0	0	0	0	0	1	1	1.5	11.3
17-Sep-07	0	0	0	0	0	1	1	2	25	0	5	11	11	5	4	6	6	5	4	3	3	3	2	0	4.1	24.9
18-Sep-07	1	1	0	0	0	1	0	1	0	1	1	0	0	1	1	1	1	2	2	2	2	3	3	2	1.2	3.2
19-Sep-07	2	2	1	1	1	2	2	2	2	5	1	0	0	0	0	0	0	0	0	1	0	2	1	0	1.1	4.5
20-Sep-07	0	0	0	D	0	0	4	6	6	20	1	0	0	3	2	3	11	0	0	1	1	1	0	0	2.5	19.7
21-Sep-07	0	0	0	1	0	0	1	0	0	3	0	1	1	2	19	1	0	3	D	0	0	0	0	0	1.5	19.1
22-Sep-07	0	0	0	1	1	3	3	3	6	2	2	2	1	1	1	1	1	3	1	3	2	0	1	1	1.7	5.6
23-Sep-07	1	2	2	1	1	1	1	3	3	2	1	1	0	0	1	2	2	2	3	2	4	2	1	1	1.6	4.0
24-Sep-07	0	0	0	0	0	0	0	3	5	8	1	2	0	12	6	1	3	3	0	0	0	0	1	0	1.9	11.5
25-Sep-07	0	0	0	0	1	2	5	17	9	22	22	11	13	14	3	14	27	23	D	D	0	0	0	0	8.3	27.4
26-Sep-07	0	0	0	6	4	3	6	9	9	33	6	11	18	1	33	7	9	2	5	3	4	4	2	3	7.4	32.9
27-Sep-07	4	4	1	0	0	1	0	0	1	0	3	1	1	4	6	8	0	3	1	3	2	2	0	1	1.9	7.7
28-Sep-07	1	1	1	0	0	1	1	1	2	2	1	2	2	1	2	1	1	2	4	2	3	2	2	0	1.5	3.6
29-Sep-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3	5	3	2	5	7	1.1	6.6
30-Sep-07	6	4	7	5	5	5	3	4	5	7	5	0	0	0	0	0	0	0	1	2	5	2	2	2	3.0	7.4
Hourly Avg	1.4	1.2	1.1	1.4	1.8	2.3	3.1	5.4	6.3	7.7	6.0	5.3	3.6	3.9	4.4	4.0	5.8	4.7	3.2	2.5	2.4	2.0	1.7	1.4		
Hourly Max	5.8	5.4	7.4	8.7	23.6	24.2	13.4	19.5	35.5	42.8	48.7	46.2	17.5	13.9	32.9	18.8	27.5	22.8	11.4	9.8	9.1	6.8	6.1	6.6		

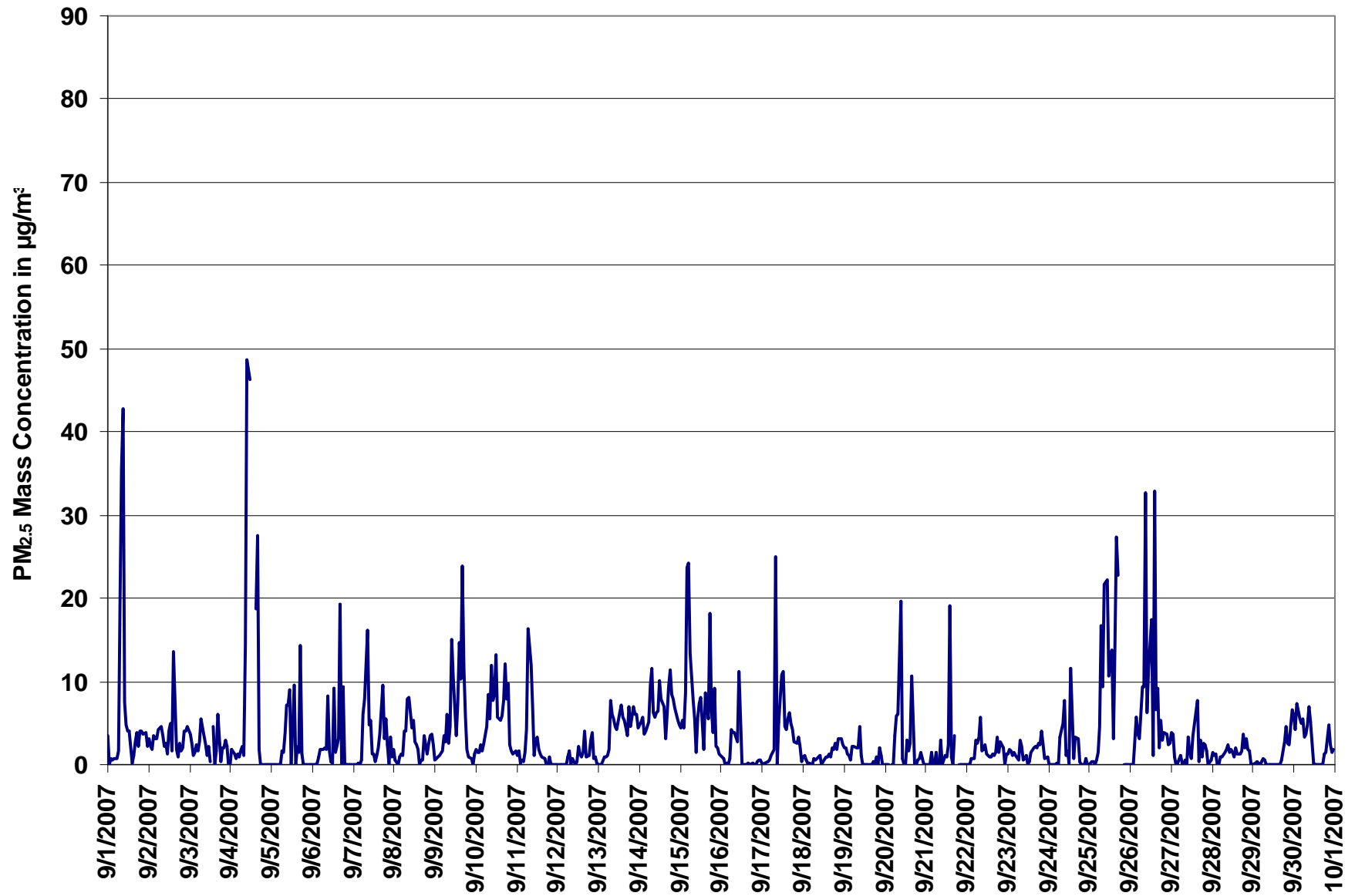


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

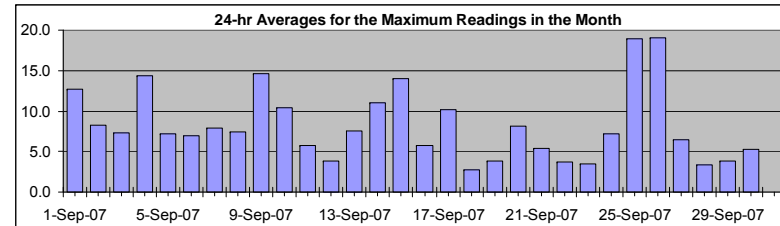
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	73.1	µg/m ³	4-Sep	11:00 12:00
Maximum 24-hr Value:	19.0	µg/m ³	26-Sep	



AIC Time:	0 hrs	Operational Time:	717 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	47.1	34.2	8.7	4.5	2.5	0.7	0.0	8.2	5 µg/m ³
									7.2 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	7	1	2	2	3	3	6	42	47	63	38	8	7	7	7	9	9	5	9	7	7	5	5	12.7	62.5	
2-Sep-07	5	4	3	7	7	6	7	6	7	5	6	7	10	9	9	46	9	5	7	5	4	8	9	7	8.2	46.2
3-Sep-07	7	4	3	2	4	4	5	8	6	11	6	13	9	5	19	7	13	11	10	9	4	5	5	4	7.2	18.6
4-Sep-07	1	5	4	2	3	3	3	5	3	32	71	73	C	C	C	40	47	6	1	1	0	0	0	0	14.3	73.1
5-Sep-07	0	0	0	0	1	5	5	3	6	14	15	27	3	22	5	5	6	29	19	1	2	2	2	1	7.2	28.6
6-Sep-07	0	1	1	2	2	4	4	3	5	15	8	3	2	19	10	9	45	3	23	6	0	1	0	0	6.9	45.2
7-Sep-07	1	1	0	1	3	4	10	10	42	14	25	4	4	3	5	5	8	16	6	10	7	3	7	3	7.9	42.1
8-Sep-07	9	5	1	3	3	5	6	6	12	17	11	20	17	12	11	2	2	3	6	5	5	6	5	4	7.4	20.1
9-Sep-07	2	3	3	3	6	5	4	13	7	9	34	38	17	11	40	43	46	37	13	6	4	2	1	4	14.6	46.4
10-Sep-07	3	2	3	3	3	4	7	14	9	17	12	11	29	14	15	9	17	23	18	19	6	4	3	3	10.4	28.7
11-Sep-07	3	3	1	2	2	3	12	29	24	10	6	8	5	3	5	4	4	4	1	3	1	1	1	1	5.7	29.0
12-Sep-07	1	1	1	1	1	1	3	3	1	4	1	3	6	7	2	7	18	5	3	6	7	2	2	2	3.8	18.2
13-Sep-07	2	3	3	4	4	3	6	13	12	8	8	6	9	10	10	9	8	8	13	8	8	9	8	7	7.5	13.5
14-Sep-07	6	7	8	6	7	10	13	16	15	12	10	8	21	17	13	5	11	16	16	13	10	10	7	7	11.0	21.1
15-Sep-07	6	7	5	14	30	29	20	11	8	5	20	20	14	13	6	18	9	33	32	9	13	7	4	4	14.0	33.5
16-Sep-07	4	2	2	3	2	4	7	7	6	5	25	34	0	10	0	2	8	6	2	1	1	2	3	3	5.8	33.9
17-Sep-07	1	2	1	1	2	2	4	4	45	25	9	39	37	10	8	9	9	10	6	4	4	7	4	2	10.2	45.2
18-Sep-07	2	2	2	2	1	1	3	2	2	2	3	1	2	2	2	3	3	3	4	4	4	6	5	4	2.8	6.0
19-Sep-07	5	4	3	3	3	5	4	6	8	5	1	1	2	4	3	2	2	2	2	5	10	6	1	3.8	10.1	
20-Sep-07	1	1	0	1	0	1	16	15	21	40	20	0	1	9	5	9	32	4	3	2	3	5	4	1	8.1	40.4
21-Sep-07	0	1	2	5	1	2	4	2	2	7	2	4	3	12	40	18	0	12	5	2	1	1	2	1	5.3	40.1
22-Sep-07	1	1	2	5	4	6	4	11	10	4	3	4	3	2	2	3	2	3	5	3	4	3	2	2	3.7	11.1
23-Sep-07	3	3	2	2	3	2	3	5	3	3	2	3	2	2	3	4	5	4	5	6	6	4	3	2	3.5	5.8
24-Sep-07	2	4	5	3	2	3	3	10	10	13	9	4	3	36	28	2	17	9	2	2	1	1	2	1	7.2	36.0
25-Sep-07	0	2	2	1	2	5	7	34	41	39	46	45	47	29	26	27	61	38	0	0	0	0	0	0	18.9	61.4
26-Sep-07	1	1	8	12	11	6	12	12	24	61	24	53	41	11	61	43	33	5	8	7	8	6	4	5	19.0	61.2
27-Sep-07	6	5	3	3	2	4	3	3	3	1	7	4	3	7	25	39	4	9	3	5	5	7	3	4	6.5	38.5
28-Sep-07	3	3	3	2	1	3	4	4	4	5	3	3	3	3	3	3	3	4	6	3	4	5	5	1	3.4	5.8
29-Sep-07	2	2	3	3	3	4	3	4	4	1	1	1	1	1	0	1	3	3	6	11	12	6	8	9	3.8	11.7
30-Sep-07	12	6	11	8	7	8	6	6	7	9	7	4	1	0	1	2	2	2	3	5	10	3	3	3	5.2	11.8
Hourly Avg	3.2	2.9	3.0	3.6	4.1	4.9	6.4	10.2	13.1	15.2	14.6	15.0	10.4	10.0	12.6	12.7	14.6	10.7	7.8	5.5	4.9	4.4	3.7	3.0		
Hourly Max	11.8	7.3	10.9	14.0	30.0	28.7	19.7	42.2	46.5	62.5	71.4	73.1	46.5	36.0	61.2	46.2	61.4	38.1	32.3	18.7	12.7	10.1	8.6	9.3		

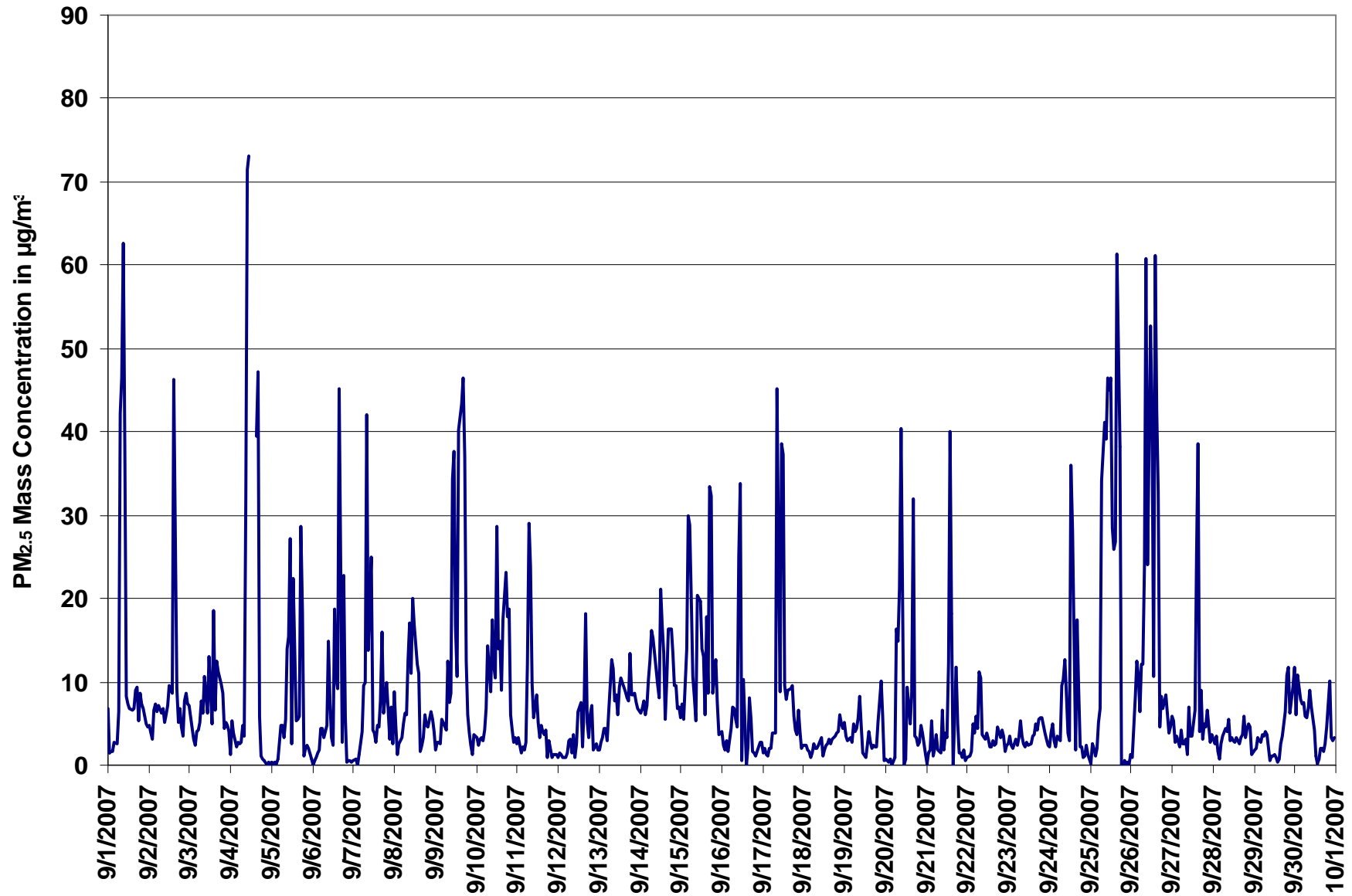
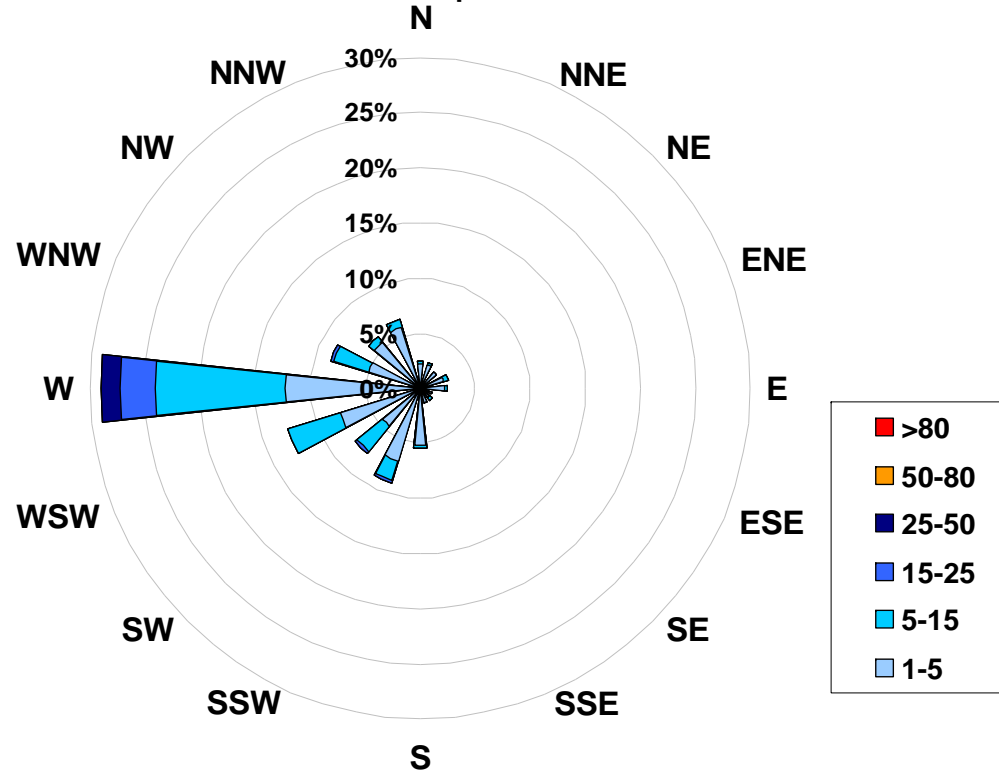


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Evergreen Park Site for September 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	562
5	to	15	124
15	to	25	17
25	to	50	8
50	to	80	0
	>	80	0
Total Non-Zero Values			712

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

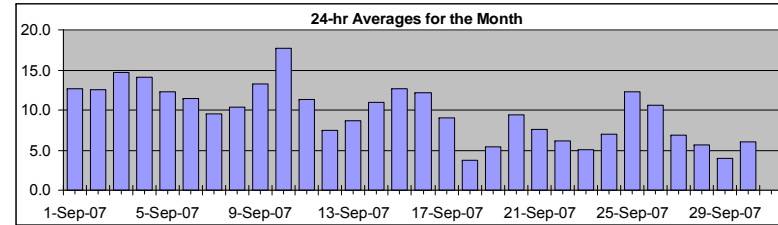
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	24.7 °C	10-Sep	16:00 17:00
Maximum 24-hr Value:	17.7 °C	10-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.2	19.4	13.5	9.8	5.6	1.1	-2.1	9.7 °C	9.8 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	9	9	8	8	6	5	5	9	12	14	16	17	19	19	18	19	20	19	18	15	11	9	9	8	12.7	19.8	
2-Sep-07	8	7	6	6	7	7	8	8	11	13	16	17	18	20	20	17	17	18	17	13	11	11	11	11	12.5	20.1	
3-Sep-07	12	11	11	10	10	10	10	11	11	13	15	18	19	20	20	20	21	19	18	16	14	14	14	14	14.6	20.6	
4-Sep-07	13	12	12	12	11	11	11	12	13	14	15	16	16	18	19	19	18	17	17	15	13	12	11	11	14.1	18.8	
5-Sep-07	10	10	10	8	7	6	8	9	11	13	14	15	15	15	16	16	17	16	16	13	13	13	13	11	12.3	16.6	
6-Sep-07	10	10	8	7	7	8	7	8	9	11	13	14	14	16	16	16	16	14	15	13	11	10	10	9	11.4	16.2	
7-Sep-07	7	6	4	3	2	1	2	6	9	11	13	14	15	16	16	14	16	14	13	11	10	10	9	9	9.6	16.2	
8-Sep-07	9	9	7	7	6	5	6	6	8	10	11	13	15	16	16	17	17	17	17	11	8	6	6	6	10.4	17.2	
9-Sep-07	5	5	6	6	5	5	5	7	10	13	16	18	19	20	21	21	21	19	18	17	16	15	15	14	13.3	21.2	
10-Sep-07	14	12	12	12	13	13	13	14	15	17	19	20	21	23	23	24	25	25	23	19	18	18	17	16	17.7	24.7	
11-Sep-07	12	12	10	8	8	7	8	11	13	15	16	14	13	12	12	12	12	12	12	11	11	11	10	8	11.3	16.2	
12-Sep-07	7	6	6	5	4	4	3	4	6	7	7	9	10	10	12	13	14	14	13	8	6	4	3	2	7.4	14.2	
13-Sep-07	1	0	0	0	-1	-1	-1	1	5	8	11	14	16	18	19	20	20	21	19	12	9	8	6	5	8.7	20.9	
14-Sep-07	4	3	3	2	2	2	2	3	7	11	14	17	19	21	22	23	23	23	19	13	10	8	7	6	11.0	22.9	
15-Sep-07	5	4	3	2	2	2	3	4	6	10	14	19	22	23	24	24	21	20	20	18	17	15	14	13	12.7	23.9	
16-Sep-07	11	11	12	12	10	9	9	11	12	12	13	14	13	14	16	16	16	16	14	12	11	11	10	9	12.2	16.0	
17-Sep-07	6	4	6	4	4	6	6	6	8	10	11	12	13	14	13	13	13	12	12	11	10	9	7	7	9.1	13.6	
18-Sep-07	6	5	4	3	2	2	2	2	2	3	3	4	5	5	5	5	5	5	4	4	4	4	3	3	3.8	6.1	
19-Sep-07	2	2	1	1	-1	-1	0	0	2	5	7	8	8	10	11	11	11	10	9	8	9	6	5	6	5.5	11.4	
20-Sep-07	6	6	7	8	9	8	8	8	9	11	13	13	13	13	11	11	11	10	10	9	8	8	7	6	9.3	13.5	
21-Sep-07	4	3	2	3	4	4	4	4	5	6	7	9	12	14	15	15	15	12	9	8	8	7	6	6	7.6	15.3	
22-Sep-07	6	4	2	2	2	3	5	6	7	9	9	9	9	9	9	9	8	8	7	6	6	5	5	4	6.1	9.0	
23-Sep-07	3	3	3	3	3	3	2	2	4	4	6	7	9	10	10	10	12	11	7	4	3	2	1	1	5.0	11.7	
24-Sep-07	0	-1	-2	-2	-3	-3	-3	-2	1	5	9	13	15	15	14	14	15	15	13	12	12	11	11	10	7.0	15.4	
25-Sep-07	10	10	11	11	10	10	11	11	11	12	13	14	15	16	16	15	14	14	14	13	12	12	11	11	11	12.3	16.0
26-Sep-07	12	11	11	12	12	11	10	9	9	11	12	13	14	14	15	14	14	14	14	12	11	6	4	2	1	10.6	14.6
27-Sep-07	1	1	2	0	-1	-1	-1	0	2	6	7	9	11	13	14	15	15	14	12	11	9	8	7	7	6.8	15.2	
28-Sep-07	5	4	4	5	6	5	4	4	5	6	7	7	7	8	8	8	9	8	7	6	5	4	3	3	5.7	8.5	
29-Sep-07	2	2	1	-1	-3	-3	-2	-2	0	2	4	6	9	10	11	12	12	11	9	5	5	3	2	2	4.0	11.8	
30-Sep-07	2	3	2	2	2	2	2	3	3	4	6	8	10	12	12	12	11	10	8	7	6	6	6	6	6.0	12.0	
Hourly Avg	6.7	6.2	5.7	5.3	4.9	4.7	4.9	5.9	7.6	9.6	11.3	12.7	13.8	14.7	15.2	15.2	15.2	14.7	13.3	11.2	9.8	8.8	8.0	7.4			
Hourly Max	13.8	12.4	12.1	12.0	12.8	13.0	13.2	13.7	14.8	16.7	18.6	19.6	21.9	23.3	23.7	24.0	24.7	24.6	23.5	19.4	18.3	18.5	17.2	15.6			

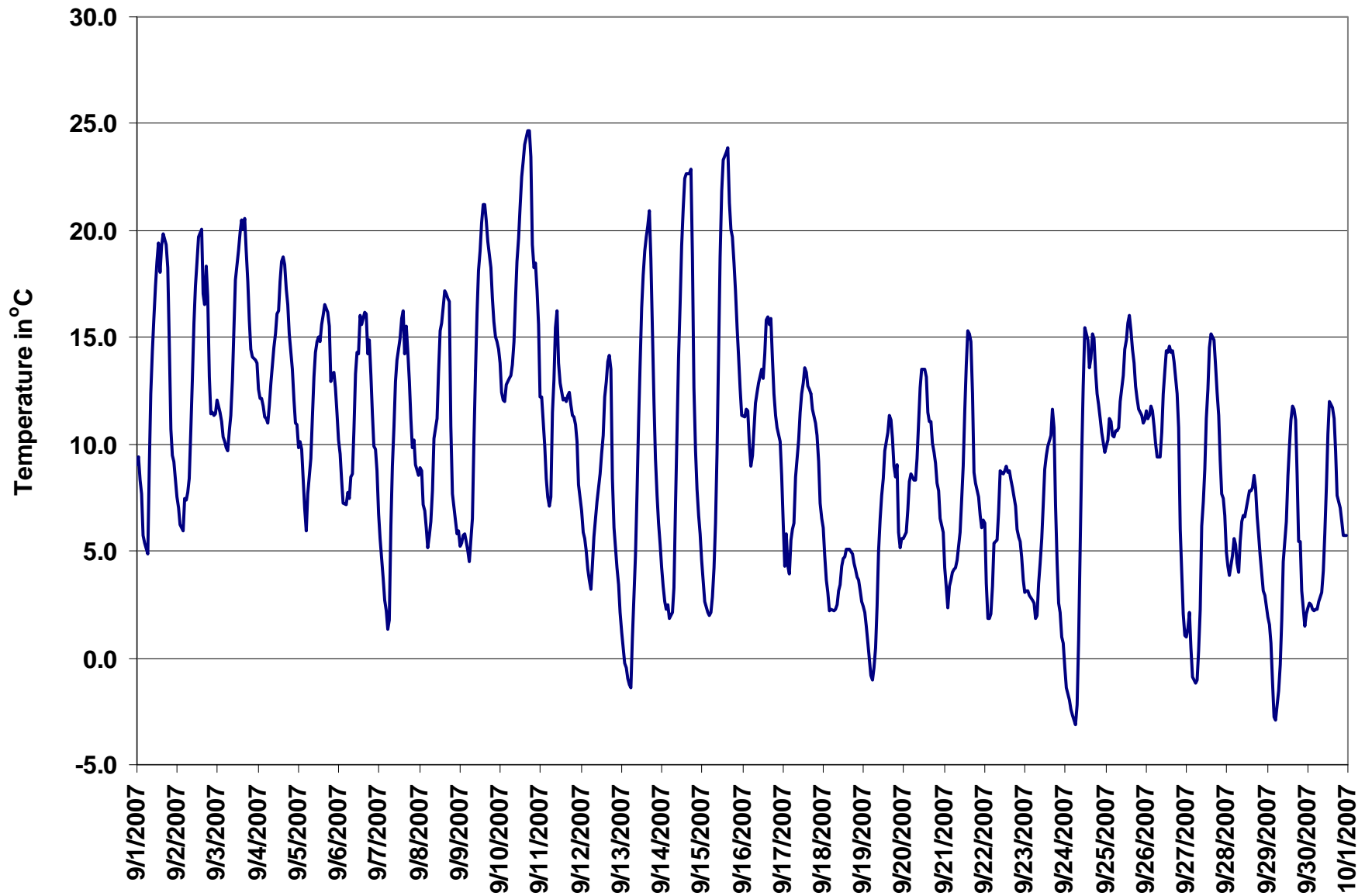


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

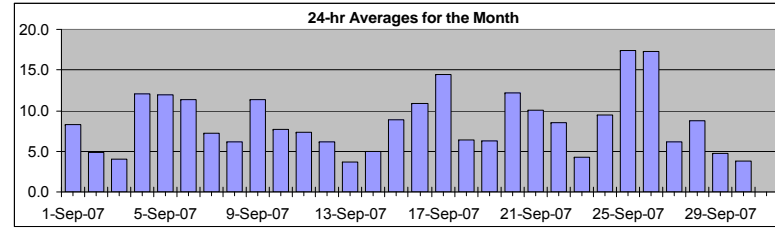
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	28.0	km/hr	17-Sep	11:00 12:00
Maximum 24-hr Value:	17.4	km/hr	25-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	24.3	20.2	12.1	6.7	4.2	2.4	2.1	8.6 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-Sep-07	7	7	5	5	3	3	2	6	11	16	16	15	15	15	14	11	12	12	8	4	3	2	4	2	8.3	16.5
2-Sep-07	3	3	3	3	6	5	4	5	6	7	4	6	6	5	6	14	8	5	5	2	3	3	2	3	4.9	13.8
3-Sep-07	6	3	2	2	2	3	2	3	5	3	4	4	4	5	6	6	3	4	4	3	3	3	6	8	4.0	8.0
4-Sep-07	7	5	6	6	5	5	5	8	12	18	18	15	12	16	20	26	24	21	17	13	10	8	7	9	12.1	25.8
5-Sep-07	6	9	7	6	5	5	9	8	10	14	16	16	17	19	18	15	14	16	14	6	13	15	14	14	12.0	18.7
6-Sep-07	11	13	11	9	10	10	8	11	13	14	13	14	12	16	14	15	16	9	12	10	11	6	9	6	11.4	16.3
7-Sep-07	4	3	3	3	3	3	5	7	11	12	13	13	9	7	9	10	10	7	9	6	6	7	7	9	7.3	13.3
8-Sep-07	9	6	5	6	4	4	7	7	7	8	8	8	7	8	10	7	8	6	3	2	3	3	4	5	6.2	9.8
9-Sep-07	4	5	5	4	5	3	2	4	8	15	17	15	14	15	19	18	17	17	17	16	12	13	14	12	11.3	18.8
10-Sep-07	8	6	6	4	6	4	5	5	8	9	10	10	8	11	8	8	9	9	7	6	10	13	11	6	7.7	12.7
11-Sep-07	3	5	3	3	3	3	4	7	5	9	10	4	8	7	10	12	12	12	9	8	9	11	10	8	7.3	12.5
12-Sep-07	8	7	9	7	6	6	7	7	7	6	10	9	8	6	7	5	5	6	4	3	4	4	3	3	6.2	9.6
13-Sep-07	2	2	2	3	2	2	2	3	2	4	6	6	5	6	6	7	6	3	3	3	3	3	3	2	3.6	6.5
14-Sep-07	2	2	4	4	5	4	4	5	6	8	8	8	7	5	9	9	6	5	4	3	3	3	3	2	5.0	9.3
15-Sep-07	2	2	3	3	3	4	4	4	6	7	6	12	14	14	15	16	12	9	11	9	16	15	14	9	8.8	15.9
16-Sep-07	3	5	8	5	5	6	5	5	6	8	10	12	11	11	14	15	19	20	22	19	17	17	12	7	10.9	22.0
17-Sep-07	4	5	9	6	6	12	14	14	16	23	25	28	27	23	19	18	18	19	13	14	15	8	6	6	14.5	28.0
18-Sep-07	5	8	5	6	6	6	7	9	9	7	7	7	9	9	7	9	8	7	6	5	3	4	3	4	6.4	9.2
19-Sep-07	2	2	3	3	3	2	2	3	5	7	8	10	9	7	8	9	6	5	6	6	16	11	9	9	6.3	15.8
20-Sep-07	7	6	12	19	21	20	20	16	16	17	18	16	15	14	17	11	13	6	6	5	5	6	5	3	12.2	21.2
21-Sep-07	5	4	4	4	4	4	4	4	4	4	7	9	10	15	20	19	21	21	17	15	14	12	10	11	10.0	21.2
22-Sep-07	10	3	6	5	4	6	6	8	9	11	11	14	15	17	15	13	14	11	8	5	4	2	2	2	8.5	17.5
23-Sep-07	4	4	4	3	4	3	4	4	5	6	5	6	7	5	4	4	5	5	3	3	3	3	4	4	4.2	6.8
24-Sep-07	3	3	2	2	2	2	2	3	3	4	7	7	12	15	12	10	18	20	20	16	15	17	16	16	9.5	20.5
25-Sep-07	17	15	23	21	18	14	15	17	18	22	21	21	17	20	23	24	21	16	12	12	11	11	11	17	17.4	24.4
26-Sep-07	21	19	22	27	26	19	22	18	22	24	23	23	20	20	25	23	15	13	9	9	4	5	3	3	17.3	26.5
27-Sep-07	3	5	5	3	4	5	4	5	5	7	5	5	6	6	6	9	9	14	12	10	6	6	5	3	6.2	13.6
28-Sep-07	4	3	4	7	10	10	9	7	8	9	12	12	13	13	13	11	10	12	9	10	6	7	5	7	8.8	13.3
29-Sep-07	6	5	2	2	2	2	3	4	5	6	8	7	7	7	8	8	7	5	4	3	5	3	2	2	4.8	8.3
30-Sep-07	2	2	3	3	3	2	3	4	4	3	4	5	6	6	8	6	6	4	2	3	3	4	2	3	3.8	7.5
1-hr Average	5.9	5.6	6.2	6.2	6.2	5.9	6.5	7.0	8.4	10.3	11.0	11.2	11.0	11.5	12.4	12.2	11.7	10.6	9.2	7.6	7.8	7.5	6.9	6.6		
Hourly Max	21.1	18.7	23.4	26.5	25.5	20.2	21.8	17.6	22.4	23.6	25.1	28.0	26.8	22.7	24.8	25.8	23.7	21.2	22.0	18.7	17.4	16.9	16.4	16.6		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

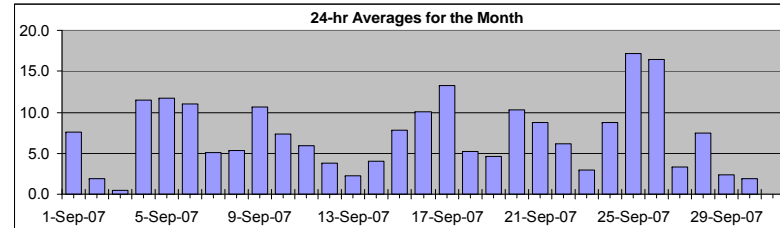
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	27.8	km/hr	17-Sep	11:00 12:00
Maximum 24-hr Value:	17.2	km/hr	25-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	23.9	19.8	11.6	6.1	3.5	1.0	0.5	35.7 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	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Sep-07	7	7	5	5	3	2	2	6	11	15	16	14	14	14	12	10	11	12	7	4	2	2	4	1		7.6	16.2	
2-Sep-07	2	2	2	2	1	4	3	4	4	6	2	4	4	2	2	11	7	5	4	2	3	0	1	2		1.9	10.6	
3-Sep-07	5	1	1	2	2	1	1	2	4	1	2	1	3	4	5	3	2	3	4	3	3	2	5	7		0.5	7.4	
4-Sep-07	6	4	6	5	5	5	5	7	11	18	18	15	11	16	20	25	23	21	17	12	10	8	7	9		11.5	25.5	
5-Sep-07	6	9	7	4	2	5	9	8	10	14	16	16	17	18	17	15	14	16	14	5	12	15	14	14		11.7	18.3	
6-Sep-07	11	13	11	9	10	9	8	11	13	14	13	14	11	15	14	14	16	8	12	10	11	6	8	6		11.0	15.7	
7-Sep-07	4	3	3	2	2	2	4	7	10	12	11	12	7	5	7	8	9	6	9	2	5	5	4	9		5.1	11.8	
8-Sep-07	6	2	5	5	3	3	7	7	7	8	8	8	5	7	8	6	7	6	2	2	3	3	4	5		5.3	8.4	
9-Sep-07	4	5	5	4	5	2	1	4	8	15	17	14	13	15	18	18	17	17	17	15	12	12	14	12		10.7	18.4	
10-Sep-07	8	6	6	4	5	4	4	5	7	8	10	9	8	10	7	7	8	8	7	5	10	13	11	6		7.4	12.7	
11-Sep-07	1	4	0	2	2	1	3	5	4	8	10	3	8	7	9	12	12	11	9	8	8	11	10	8		5.9	12.2	
12-Sep-07	8	6	9	7	6	6	7	7	7	6	9	9	7	4	6	2	1	6	4	2	3	4	3	2		3.8	9.3	
13-Sep-07	1	1	2	2	1	1	1	3	1	4	5	6	3	5	5	6	5	2	2	2	3	3	1	1		2.2	5.7	
14-Sep-07	1	1	3	4	5	3	4	5	6	8	8	8	6	3	8	8	5	4	3	2	3	2	2	1		4.0	8.3	
15-Sep-07	1	2	3	3	3	4	4	3	6	7	5	12	14	12	15	15	12	9	10	9	16	15	14	8		7.8	15.6	
16-Sep-07	2	5	8	5	4	5	4	4	6	7	10	12	11	10	14	15	18	20	22	19	17	17	10	7		10.0	21.8	
17-Sep-07	4	4	9	6	6	12	13	14	15	23	25	28	26	22	19	17	18	19	13	14	14	5	6	6		13.3	27.8	
18-Sep-07	5	7	5	6	5	6	7	9	8	6	6	6	8	8	7	9	7	7	6	4	2	3	1	2		5.2	8.8	
19-Sep-07	0	1	1	2	2	1	1	3	4	5	6	8	7	5	7	8	6	5	6	6	15	10	9	9		4.6	14.7	
20-Sep-07	6	6	12	18	21	20	20	16	16	17	15	14	13	16	11	12	5	5	5	5	5	6	4	1		10.3	21.1	
21-Sep-07	4	3	3	4	3	3	4	3	3	4	7	8	10	15	20	18	21	21	15	15	14	12	10	11		8.8	20.7	
22-Sep-07	10	0	6	5	2	5	5	8	8	10	10	13	15	17	14	12	14	10	7	5	4	1	1	2		6.2	17.1	
23-Sep-07	4	3	3	3	3	3	4	4	5	6	4	5	5	3	0	1	3	4	2	1	3	3	4	4		3.0	5.8	
24-Sep-07	2	2	1	1	2	2	1	0	2	2	6	6	11	14	12	10	18	20	20	16	15	16	16	16		8.7	20.3	
25-Sep-07	17	15	23	21	18	14	15	17	18	22	21	20	17	19	23	24	21	16	12	12	11	11	11	16		17.2	24.0	
26-Sep-07	21	19	22	26	25	19	22	17	22	23	23	23	20	18	25	23	14	13	9	8	3	5	1	3		16.5	26.4	
27-Sep-07	3	5	4	2	4	5	4	5	4	6	4	4	6	6	5	8	8	13	12	10	5	5	4	1		3.3	13.3	
28-Sep-07	2	2	3	7	9	9	9	6	8	9	12	11	13	13	12	10	10	12	8	10	6	7	5	7		7.5	12.7	
29-Sep-07	5	5	2	1	1	1	2	4	4	5	7	6	6	6	8	7	5	4	3	2	5	2	1	1		2.4	7.6	
30-Sep-07	1	1	1	1	2	1	3	1	1	2	4	5	6	5	6	5	5	3	0	2	3	4	2	3		1.9	6.4	
1-hr Vector	3.9	3.5	4.2	4.4	4.2	3.7	4.0	4.5	5.7	7.1	7.5	7.6	7.6	7.9	9.3	9.6	9.1	8.0	6.8	5.7	5.9	5.1	4.6	4.1				
Hourly Max	21.0	18.6	23.3	26.4	25.4	20.1	21.6	17.4	22.3	23.3	24.8	27.8	26.3	22.0	24.6	25.5	23.4	20.9	21.8	18.5	17.3	16.8	16.3	16.5				

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	353.7	336.8	277.4	254.1	203.9	56.6	14.6	266 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
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	270	277	284	294	345	325	357	267	272	265	268	265	274	262	229	243	267	275	285	249	207	252	201	354	267	W	
2-Sep-07	259	22	204	231	194	270	232	301	309	264	307	224	191	171	237	287	16	57	51	14	49	106	207	281	267	W	
3-Sep-07	240	183	15	299	228	63	17	194	219	209	275	156	223	117	168	120	43	81	86	100	81	15	337	327	152	SSE	
4-Sep-07	331	288	261	240	222	224	224	235	246	260	267	271	284	277	271	263	268	268	263	247	236	242	250	243	261	W	
5-Sep-07	243	246	249	243	255	233	227	230	251	254	257	268	252	261	256	269	247	267	261	266	262	265	265	271	257	WSW	
6-Sep-07	270	255	260	266	262	277	245	261	259	278	291	294	310	272	273	283	274	277	262	265	265	251	244	244	270	W	
7-Sep-07	267	239	215	275	310	19	299	280	278	282	298	317	341	33	7	352	273	281	244	258	220	234	258	217	287	WNW	
8-Sep-07	238	289	232	237	315	266	256	283	274	282	262	249	270	276	275	287	296	318	354	235	211	205	198	203	266	W	
9-Sep-07	202	221	203	207	195	173	221	215	242	261	268	270	266	267	265	268	267	257	255	251	243	248	253	257	254	WSW	
10-Sep-07	275	324	297	283	283	278	280	290	280	273	261	253	269	256	276	259	242	261	253	242	252	261	253	252	266	W	
11-Sep-07	63	277	15	227	246	348	342	297	309	360	28	337	290	302	279	266	279	307	298	297	324	341	336	335	313	NW	
12-Sep-07	333	318	335	328	325	332	333	338	8	2	354	338	314	266	253	275	297	217	170	188	178	80	89	59	325	NW	
13-Sep-07	66	287	240	268	253	284	325	208	182	223	206	213	272	282	272	287	323	358	135	167	211	259	317	339	260	W	
14-Sep-07	250	229	217	218	223	218	230	217	241	255	255	253	285	332	282	306	332	257	201	208	314	225	230	297	258	WSW	
15-Sep-07	277	276	210	212	222	202	200	214	220	212	225	252	265	278	297	290	286	269	286	293	288	269	262	268	266	W	
16-Sep-07	264	294	317	288	232	180	183	201	210	235	265	268	247	265	262	263	269	266	260	257	254	254	281	273	259	W	
17-Sep-07	245	252	232	231	246	251	245	245	262	262	270	266	263	268	269	270	271	262	268	264	264	321	40	35	264	W	
18-Sep-07	48	48	44	39	28	351	339	336	347	3	344	339	333	324	331	341	322	332	306	343	285	322	266	186	345	NNW	
19-Sep-07	177	229	29	174	45	355	99	70	132	158	183	194	203	207	197	211	189	150	186	189	255	229	192	207	197	SSW	
20-Sep-07	219	245	253	263	260	261	259	255	257	268	276	301	321	337	340	280	270	321	326	295	308	255	207	111	276	W	
21-Sep-07	215	194	192	171	168	158	194	194	160	165	179	185	210	250	260	257	249	256	245	233	228	226	230	235	230	SW	
22-Sep-07	231	74	208	244	199	276	304	280	279	312	320	332	334	337	335	319	332	330	5	15	352	56	67	72	320	NW	
23-Sep-07	82	87	84	88	86	85	89	88	106	123	117	125	132	97	110	165	25	65	128	198	187	225	213	206	114	ESE	
24-Sep-07	219	211	265	321	249	250	1	175	140	220	196	205	244	264	255	236	246	256	245	246	236	236	242	236	241	WSW	
25-Sep-07	247	253	252	247	254	257	269	265	256	264	271	271	275	268	264	269	272	267	247	241	248	248	236	252	260	W	
26-Sep-07	253	252	258	267	266	271	269	274	268	273	277	281	277	279	261	268	284	278	260	247	198	199	113	184	267	W	
27-Sep-07	187	180	174	150	67	76	68	79	97	123	142	118	153	173	264	241	227	245	240	240	204	206	186	136	190	S	
28-Sep-07	176	191	252	260	275	273	277	309	302	319	331	330	324	323	309	321	340	335	328	339	334	340	358	347	316	NW	
29-Sep-07	354	340	325	344	217	96	62	90	89	88	110	135	119	116	130	122	161	169	197	208	212	58	228	297	122	ESE	
30-Sep-07	349	333	208	68	51	281	68	70	323	23	58	56	69	141	151	117	98	84	307	37	60	53	319	302	69	ENE	
Hourly Avg	255	262	256	257	257	265	266	263	263	268	274	272	275	276	270	272	275	273	262	257	254	256	252	257			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	89.4	76.3	39.8	19.7	11.7	6.6	5.5

Status Flag Characters

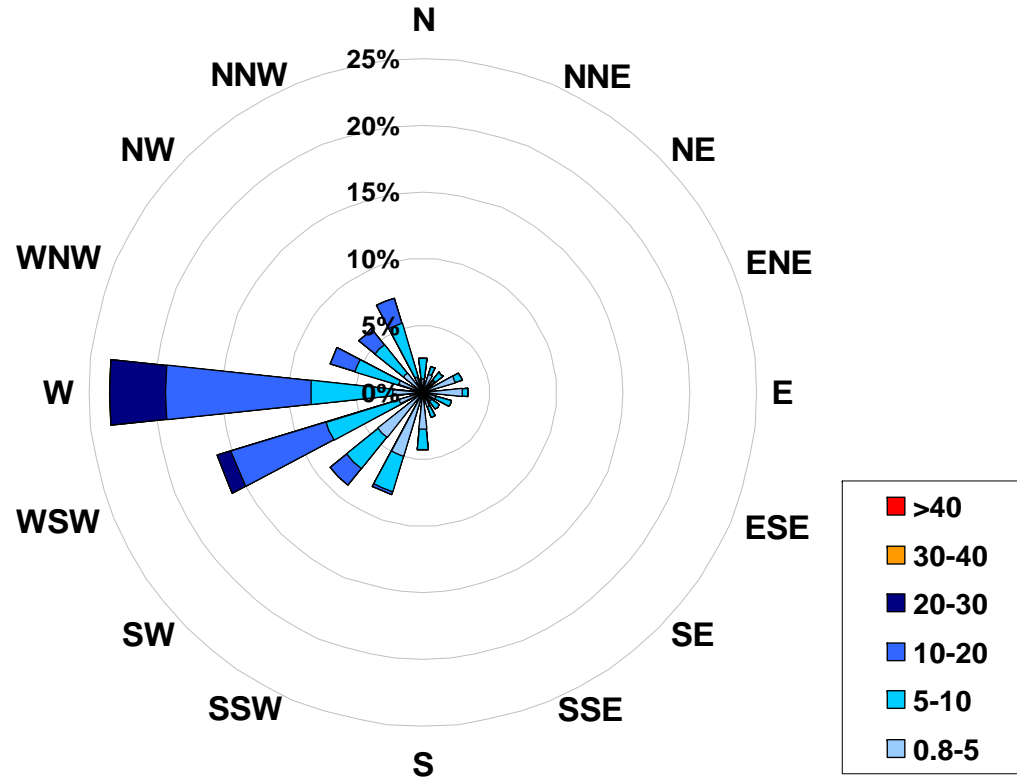
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	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-Sep-07	12	12	13	21	23	45	53	35	12	9	10	16	17	19	35	23	23	13	16	24	69	34	31	77			76.6	
2-Sep-07	56	43	49	75	86	51	65	41	52	24	65	57	53	80	83	56	28	24	19	43	21	88	84	67			87.5	
3-Sep-07	30	80	67	50	45	89	69	71	28	89	71	87	69	47	52	67	76	34	12	19	20	57	33	23			88.9	
4-Sep-07	29	43	11	18	9	13	11	9	12	8	9	15	14	14	12	9	10	10	6	9	8	10	11	7			42.7	
5-Sep-07	7	7	27	66	79	20	7	15	7	8	8	12	11	11	10	11	11	12	9	33	8	7	8	15			79.3	
6-Sep-07	15	6	6	11	8	27	14	8	9	12	18	20	24	23	20	20	16	18	10	11	8	10	10	12			27.1	
7-Sep-07	17	42	16	56	46	54	18	14	12	13	29	28	53	48	32	31	21	19	22	78	40	39	62	14			78.3	
8-Sep-07	49	84	20	47	45	54	13	16	15	20	17	17	54	34	32	44	28	19	44	50	16	10	20	11			83.7	
9-Sep-07	14	10	11	12	9	58	85	27	16	10	10	18	17	10	12	11	9	8	6	6	12	7	5	8			85.2	
10-Sep-07	13	16	17	15	13	18	17	23	16	17	18	18	29	19	36	26	24	22	11	10	9	5	6	15			36.4	
11-Sep-07	91	52	87	32	61	75	51	33	33	23	16	41	15	14	17	10	13	19	13	14	11	15	18	12			90.7	
12-Sep-07	13	16	7	10	11	11	6	19	22	28	23	25	34	46	38	82	82	23	20	44	48	10	61	50			82.3	
13-Sep-07	59	63	55	13	53	53	66	14	61	34	30	38	66	51	54	36	37	63	55	44	18	28	67	59			67.5	
14-Sep-07	45	94	19	14	14	20	19	13	20	11	15	18	39	58	32	19	31	38	55	60	14	29	64	72			94.3	
15-Sep-07	64	47	19	15	22	12	29	29	9	14	37	11	13	28	16	14	11	13	13	12	11	9	9	36			63.6	
16-Sep-07	42	28	15	20	48	41	27	20	17	22	11	10	10	19	13	16	10	9	7	6	6	6	29	21			48.3	
17-Sep-07	24	61	7	9	12	5	8	7	8	8	8	8	12	15	15	11	10	8	10	8	8	53	11	17			60.7	
18-Sep-07	13	16	17	17	21	24	13	12	19	27	27	35	28	17	28	23	19	21	12	47	75	46	71	76			76.3	
19-Sep-07	87	67	78	55	58	84	69	29	33	43	42	31	43	62	44	31	24	35	14	13	25	30	10	12			86.6	
20-Sep-07	15	24	9	6	6	6	5	5	9	12	18	21	21	29	20	13	23	31	16	17	13	14	49	84			83.9	
21-Sep-07	53	37	27	28	31	42	27	37	31	38	17	16	17	12	10	10	9	14	20	8	5	4	6	6			53.2	
22-Sep-07	7	96	12	19	70	40	45	19	17	22	20	16	15	12	17	18	12	15	31	21	25	70	68	71			95.7	
23-Sep-07	11	22	19	26	16	22	16	22	21	28	36	35	44	74	98	92	51	36	82	91	37	29	18	18			98.1	
24-Sep-07	33	51	71	70	24	21	75	90	72	85	25	29	41	14	17	10	11	7	7	9	7	6	7	5			89.5	
25-Sep-07	6	7	6	6	7	7	9	8	6	8	12	14	16	12	11	11	10	9	9	9	7	7	7	6			16.2	
26-Sep-07	6	6	8	6	6	7	9	9	6	9	12	12	15	26	7	11	17	12	9	13	56	70	72	36			72.2	
27-Sep-07	24	9	17	61	34	27	18	14	30	30	38	35	35	22	49	30	22	10	11	12	41	20	26	76			76.4	
28-Sep-07	60	53	54	11	12	13	11	17	17	22	12	15	17	17	21	22	21	13	15	8	12	22	23	15			60.3	
29-Sep-07	19	11	42	74	84	82	46	28	25	28	32	37	37	41	26	29	37	28	62	60	36	55	73	72			84.3	
30-Sep-07	62	74	86	76	68	74	40	94	70	74	14	22	34	46	35	30	34	31	86	40	35	8	38	28			94.3	

Hourly Max	91	96	87	76	86	89	85	94	72	89	71	87	69	80	98	92	82	63	86	91	75	88	84	84
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1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	238
5	to	10	260
10	to	20	184
20	to	30	38
30	to	40	0
	>	40	0
Total Non-Zero Values			720

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

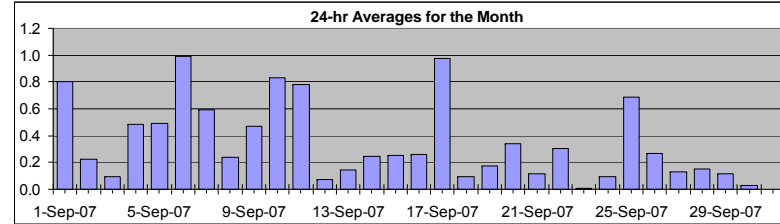
Monitoring Dates: September 1, 2007 to October 1, 2007

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	6.9 ppb 1-Sep 7:00 8:00
Maximum 24-hr Average:	1.0 ppb 6-Sep

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	1.7	0.3	0.1	0.0	0.0	0.0	0.3 ppb	0.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	0	0	0	0	1	1	2	7	2	1	1	0	0	0	0	0	0	1	1	A	0	0	0	0	0.8	6.9
2-Sep-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0.2	1.4
3-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.3	
4-Sep-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	1	1	0	1	3	3	0.5	3.1	
5-Sep-07	2	1	2	0	0	0	0	0	0	0	1	C	C	C	A	0	0	0	0	1	1	0	0	0.5	1.9	
6-Sep-07	0	6	6	2	3	A	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1.0	5.9	
7-Sep-07	0	0	0	0	0	A	1	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.1	
8-Sep-07	0	1	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
9-Sep-07	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	3	1	0.5	3.1
10-Sep-07	1	4	A	1	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.8	4.5	
11-Sep-07	2	A	3	2	6	1	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.8	5.7	
12-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.5	
13-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4	
14-Sep-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	A	0	0.2	1.0	
15-Sep-07	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	1	2	1	0.3	2.0
16-Sep-07	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	A	0	0	0	0.3	0.6	
17-Sep-07	0	0	0	0	1	3	2	3	2	2	0	0	0	0	0	0	1	1	A	3	0	0	0	1.0	3.5	
18-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0.1	0.2	
19-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.4	
20-Sep-07	0	0	0	1	1	0	0	0	2	2	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	1.8	
21-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.4	
22-Sep-07	0	0	0	0	1	0	1	2	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	2.2	
23-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
24-Sep-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0.1	0.8	
25-Sep-07	0	0	0	0	0	1	3	3	5	2	A	1	0	0	0	0	0	0	0	0	0	0	0	0.7	4.8	
26-Sep-07	0	1	0	0	0	1	0	0	0	A	0	0	0	0	0	1	0	1	0	0	0	0	0	0.3	0.9	
27-Sep-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
28-Sep-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
29-Sep-07	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
30-Sep-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
Hourly Avg	0.2	0.5	0.5	0.3	0.5	0.4	0.5	0.7	0.8	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.4	0.2			
Hourly Max	1.9	5.9	5.6	2.3	5.7	3.5	2.6	6.9	5.1	1.9	1.5	1.0	0.8	0.8	1.0	0.6	0.7	1.3	1.2	3.1	1.5	1.8	3.1	2.7		

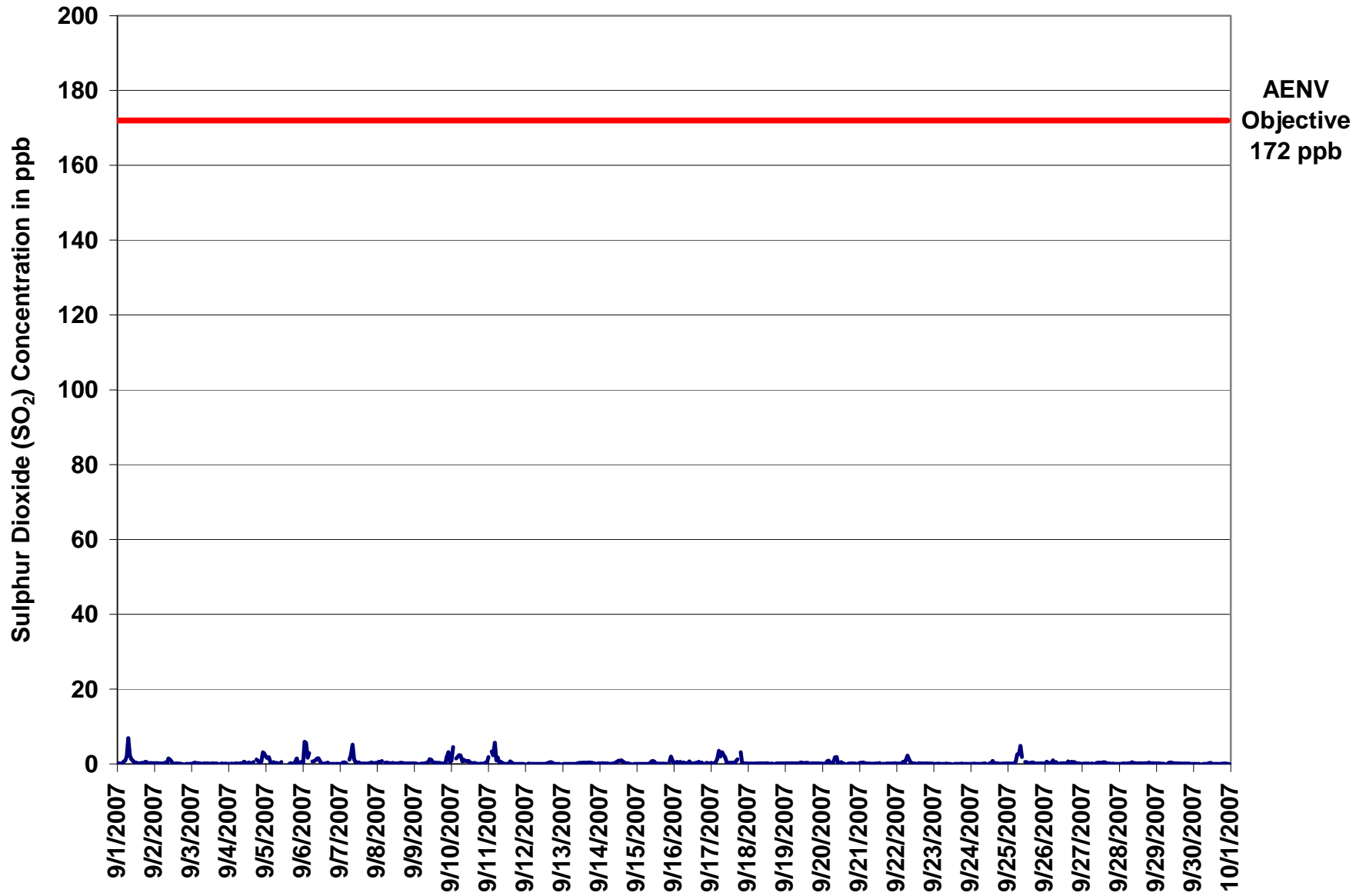


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

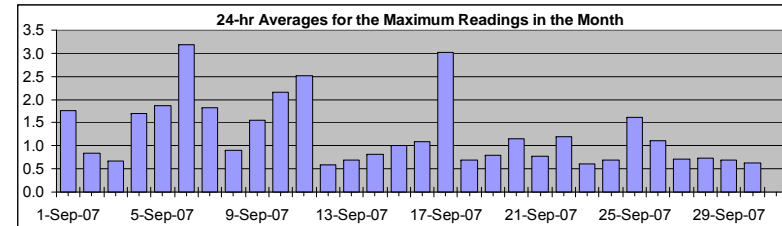
Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	24.3	ppb	6-Sep	2:00 3:00
Maximum 24-hr Value:	3.2	ppb	6-Sep	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.7	3.8	1.0	0.7	0.6	0.4	0.3	1.3 ppb	0.7 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-Sep-07	1	1	1	1	1	2	4	11	6	2	2	1	1	1	1	1	1	2	1	A	1	1	1	1	1.8	10.5
2-Sep-07	1	1	1	1	1	1	1	1	1	3	2	2	1	1	1	1	1	1	1	A	1	1	1	1	0.8	3.1
3-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.1
4-Sep-07	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	A	3	3	1	3	7	8	1.7	7.9	
5-Sep-07	7	4	3	2	1	1	1	1	1	2	C	C	C	A	1	1	1	0	4	4	1	1	3	1.9	7.0	
6-Sep-07	2	15	24	4	7	A	1	2	3	2	3	2	1	1	1	1	1	1	1	1	0	1	1	3.2	24.3	
7-Sep-07	1	0	1	4	4	A	5	5	8	3	1	1	1	1	0	1	1	0	1	1	1	0	1	1.8	8.2	
8-Sep-07	1	1	1	2	A	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	0.9	1.8	
9-Sep-07	0	0	1	A	0	0	0	1	1	2	2	2	2	1	1	1	1	1	0	1	0	10	5	2	1.5	9.8
10-Sep-07	6	9	A	2	3	3	4	1	2	1	1	1	1	1	0	5	2	1	0	1	0	1	1	2.2	8.8	
11-Sep-07	7	A	12	11	9	3	4	1	1	1	0	1	0	1	1	2	1	0	1	1	0	0	0	2.5	11.8	
12-Sep-07	A	0	1	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0	0	0.6	0.9	
13-Sep-07	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	1.4
14-Sep-07	1	1	1	1	1	1	1	0	1	1	1	1	1	1	2	1	1	1	1	0	1	A	1	0	0.8	1.6
15-Sep-07	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	A	3	3	3	1.0	3.4	
16-Sep-07	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	2	A	0	2	1	1	1.1	1.8
17-Sep-07	1	1	1	1	5	8	10	15	4	2	2	1	1	1	1	2	4	A	7	1	1	1	1	3.0	14.6	
18-Sep-07	1	1	0	1	0	1	1	1	1	0	1	1	1	1	0	1	1	A	1	1	1	1	1	1	0.7	0.9
19-Sep-07	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	0.9
20-Sep-07	1	1	1	2	2	1	1	2	3	3	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1.1	3.4
21-Sep-07	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	2	1	0	1	1	1	0.8	1.6
22-Sep-07	1	1	0	1	2	1	4	7	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.2	6.7
23-Sep-07	1	1	0	1	1	1	1	0	1	1	0	1	A	1	0	0	1	1	1	0	1	1	1	1	0.6	0.9
24-Sep-07	0	1	1	1	0	0	0	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	0.7	1.8
25-Sep-07	1	0	1	1	1	3	5	4	7	4	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1.6	6.5
26-Sep-07	1	2	1	2	0	3	1	2	1	A	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1.1	3.2
27-Sep-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
28-Sep-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
29-Sep-07	1	1	1	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
30-Sep-07	1	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.6	1.1
Hourly Avg	1.3	1.6	2.0	1.5	1.6	1.4	1.7	2.1	1.7	1.3	1.1	0.9	0.8	0.8	0.8	1.0	0.9	0.9	0.9	1.2	0.8	1.2	1.1	1.1		
Hourly Max	7.0	14.5	24.3	10.6	9.4	8.2	9.7	14.6	8.2	3.8	3.3	2.3	1.9	1.5	1.8	4.7	2.1	3.6	3.2	7.4	3.7	9.8	6.8	7.9		

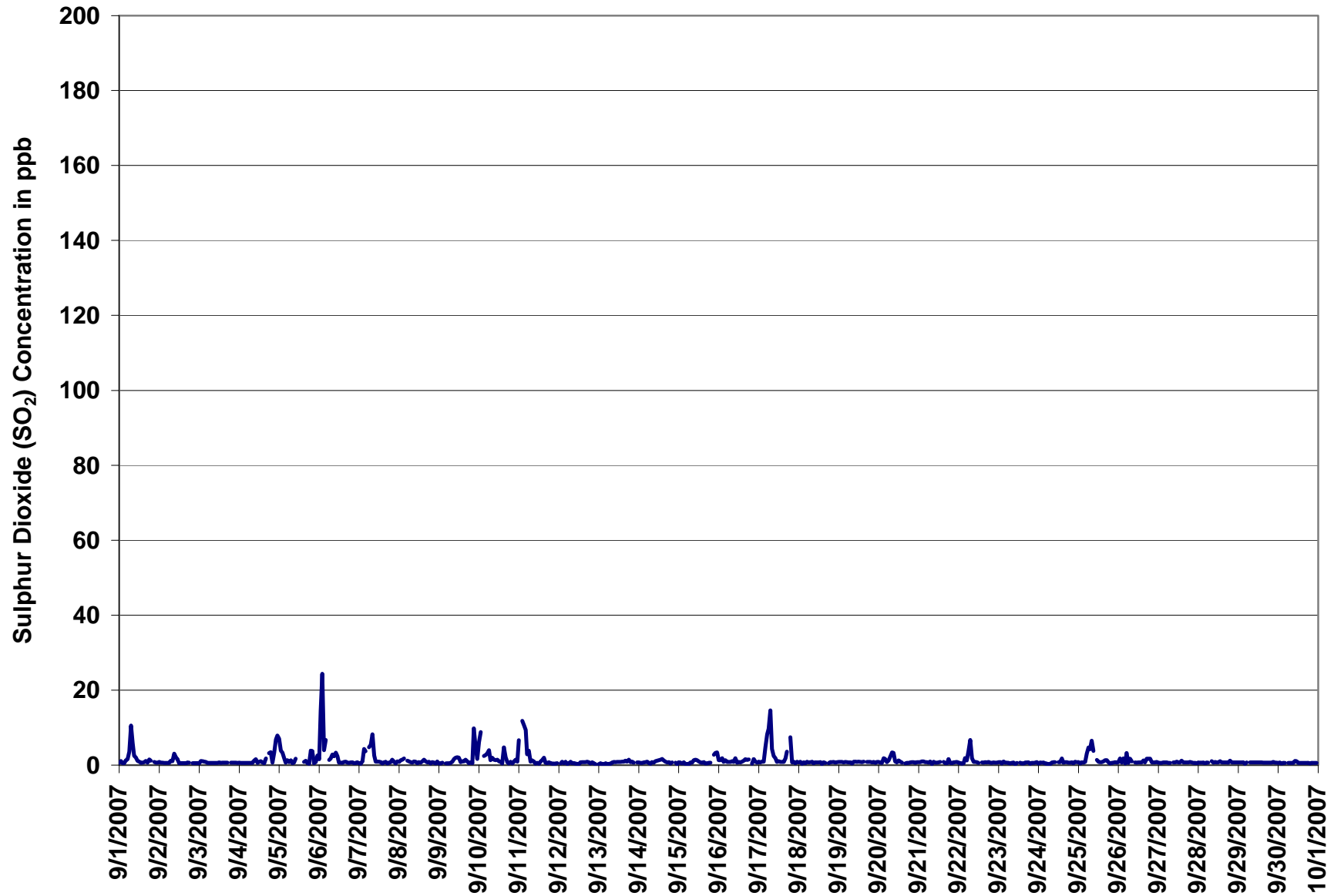
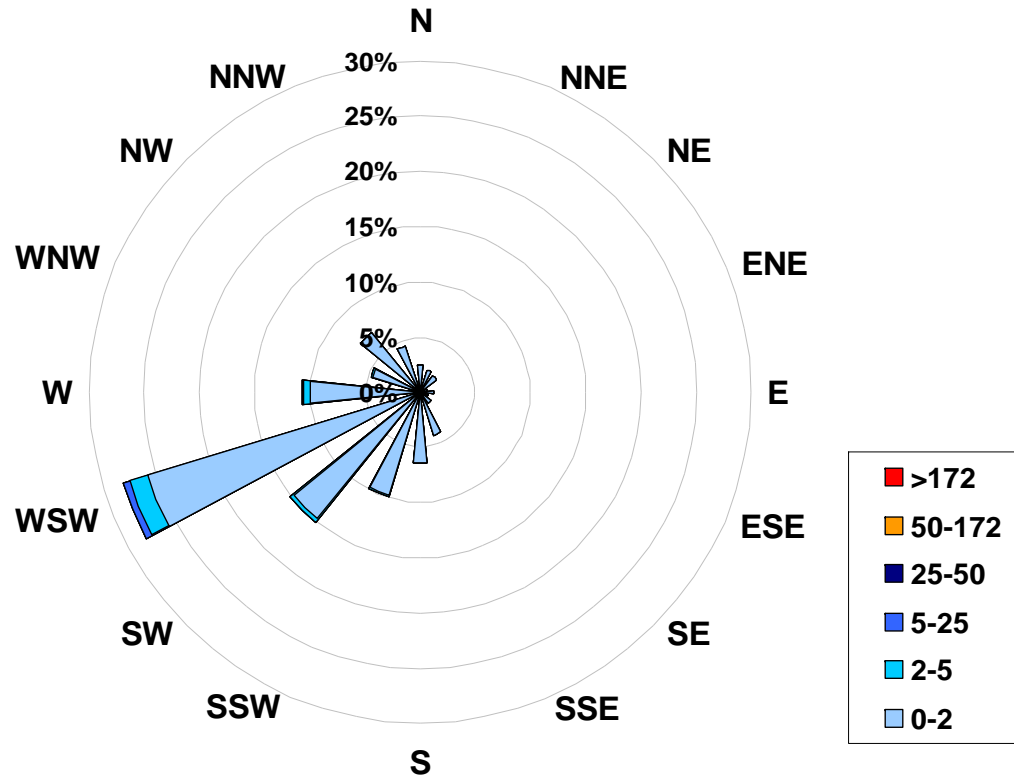


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	661
2	to	5	20
5	to	25	5
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			686

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

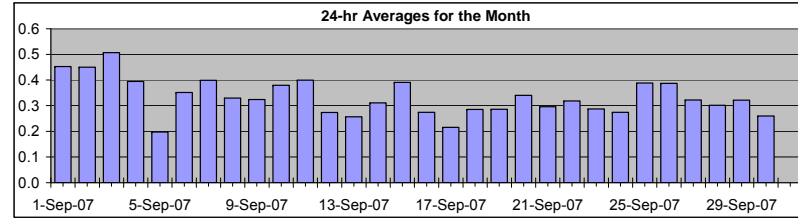
Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average: 0.7 ppb 1-Sep 1:00 2:00
 Maximum 24-hr Value: 0.5 ppb 3-Sep

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.5	0.4	0.3	0.3	0.2	0.1	0.3 ppb	0.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00
1-Sep-07	0:00	1:00	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.5	0.7
2-Sep-07	0:00	1:00	0	0	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0.5	0.7
3-Sep-07	0:00	1:00	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	A	1	1	1	1	0	0.5	0.7	
4-Sep-07	0:00	1:00	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.6	
5-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
6-Sep-07	0:00	1:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
7-Sep-07	0:00	1:00	0	1	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
8-Sep-07	0:00	1:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
9-Sep-07	0:00	1:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
10-Sep-07	0:00	1:00	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
11-Sep-07	0:00	1:00	0	A	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
12-Sep-07	0:00	1:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.4	
13-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
14-Sep-07	0:00	1:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.6	
15-Sep-07	0:00	1:00	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.7	
16-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4	
17-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.4	
18-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.4	
19-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.5	
20-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.5	
21-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.4	
22-Sep-07	0:00	1:00	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.5	
23-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
24-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
25-Sep-07	0:00	1:00	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
26-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.5
27-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
28-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0.3	0.5	
29-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
30-Sep-07	0:00	1:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
Hourly Avg			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Hourly Max			0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.6	0.7	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	

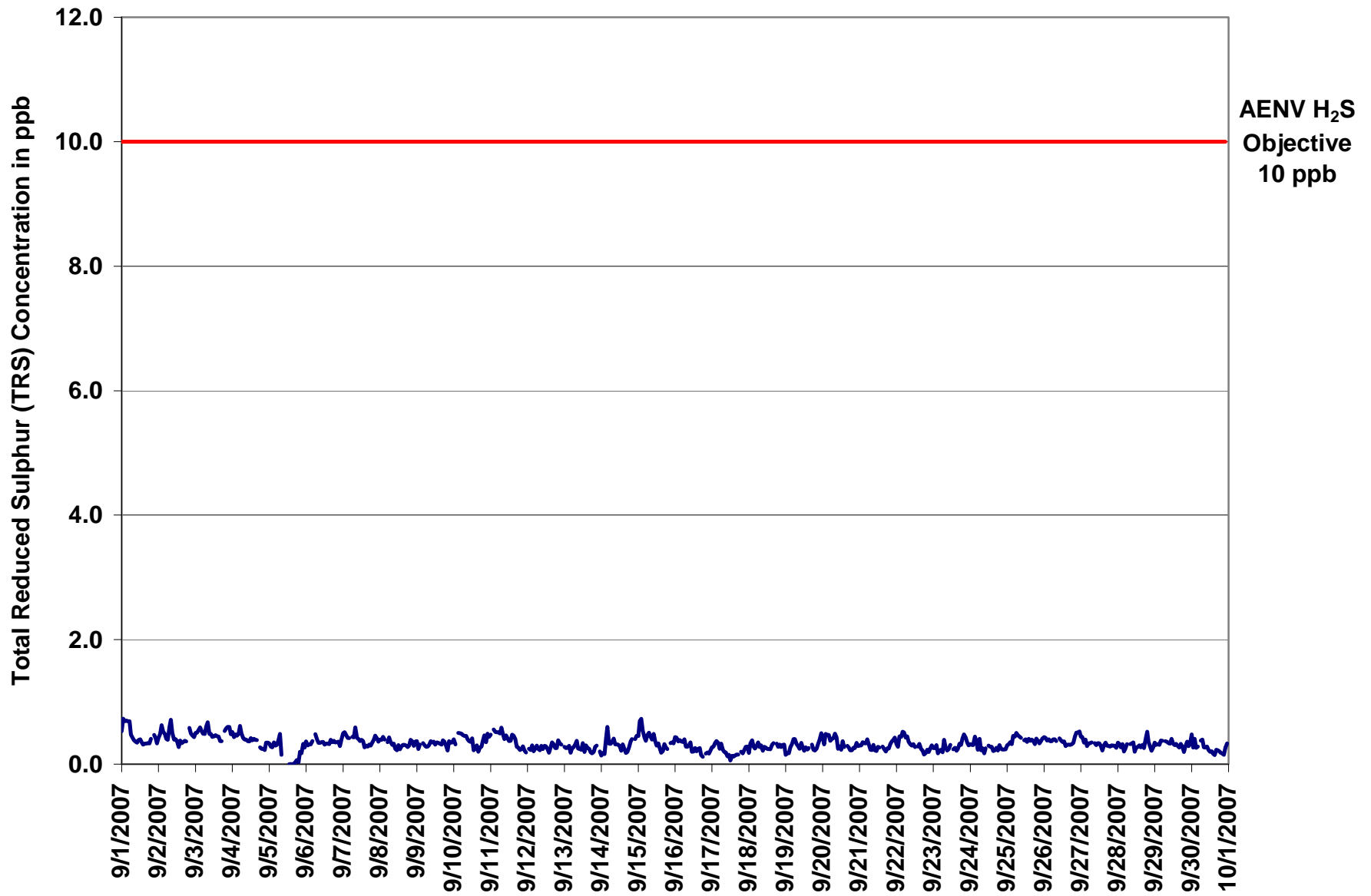


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

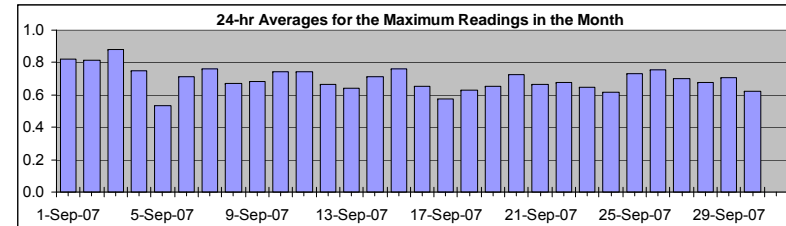
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	1.4	ppb	15-Sep	1:00 2:00
Maximum 24-hr Value:	0.9	ppb	3-Sep	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.7 ppb	0.7 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-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.2
2-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.1
3-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.2
4-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.0
5-Sep-07	1	1	1	1	1	1	1	1	0	C	C	C	A	0	0	0	0	0	0	1	1	1	1	1	0.5	0.9
6-Sep-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
7-Sep-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
8-Sep-07	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
9-Sep-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
10-Sep-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
11-Sep-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.0
12-Sep-07	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8
13-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9
14-Sep-07	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	0.7	1.2
15-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.4
16-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	1	0.7	0.9
17-Sep-07	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0	1	1	A	1	0	1	1	1	0.6	0.8
18-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.8
19-Sep-07	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	1	0.7	0.8
20-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	1.1
21-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	0.9
22-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	1	1	0.7	0.9
23-Sep-07	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
24-Sep-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	1	1	1	1	1	0.6	0.9
25-Sep-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
26-Sep-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
27-Sep-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
28-Sep-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
29-Sep-07	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
30-Sep-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0.6	1.0
Hourly Avg	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7		
Hourly Max	1.0	1.4	1.1	1.2	1.2	1.0	0.9	1.0	1.1	1.1	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.9	1.0	1.1	1.2	0.9		

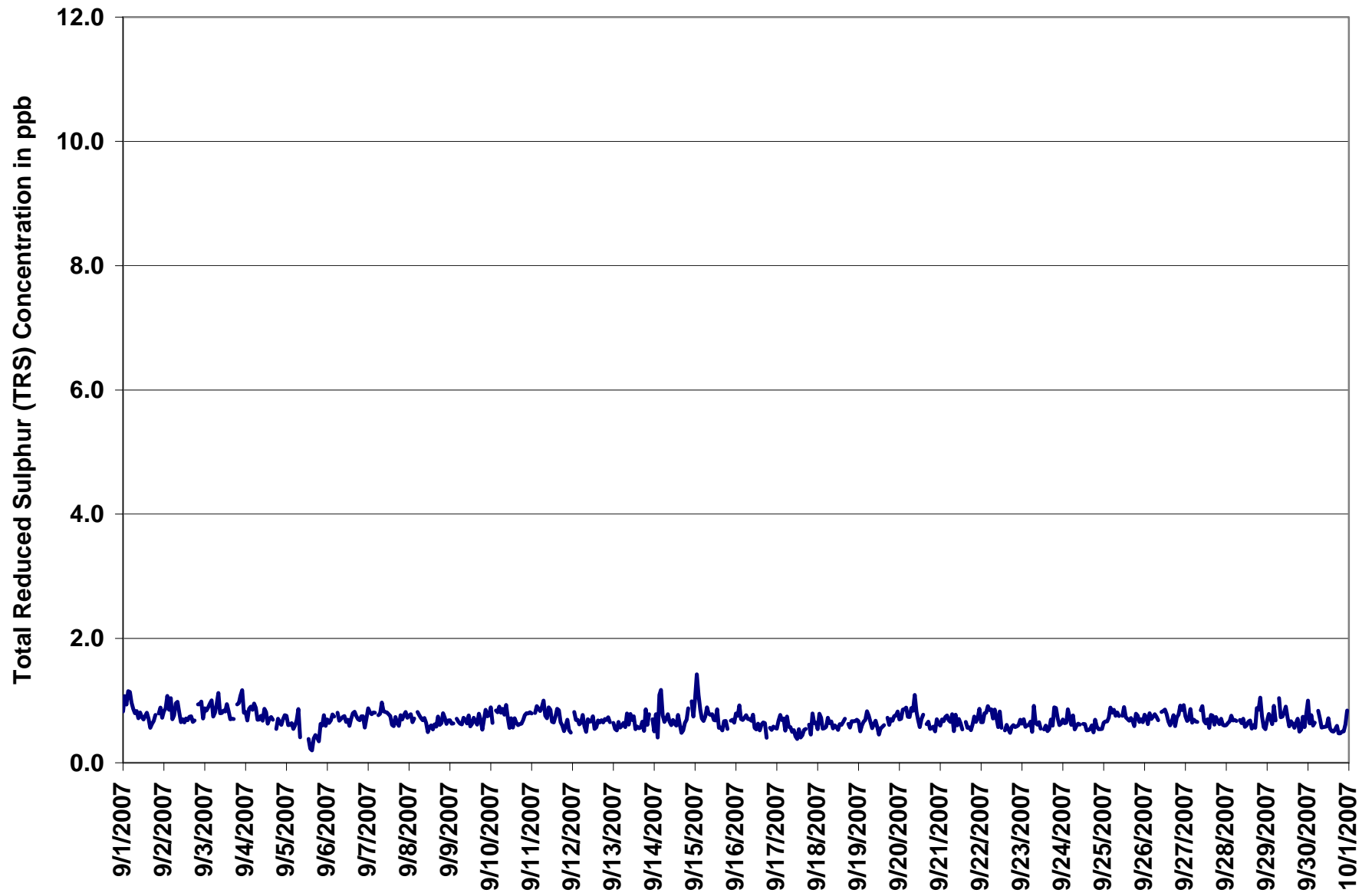
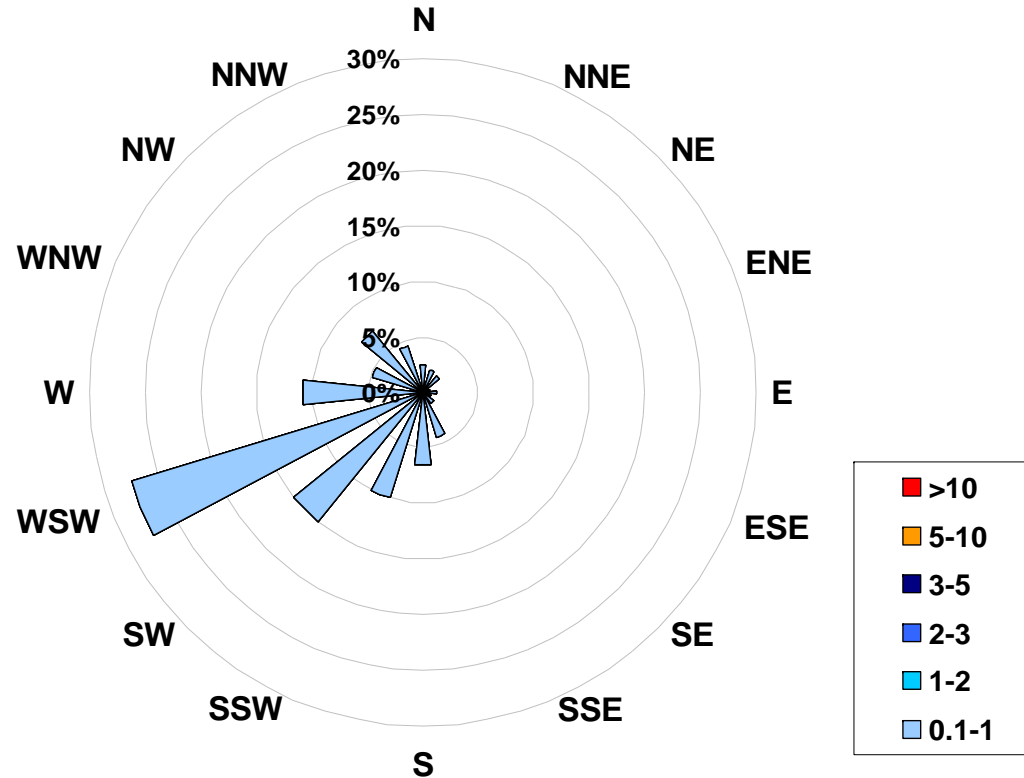


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for September 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	686
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			686

PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

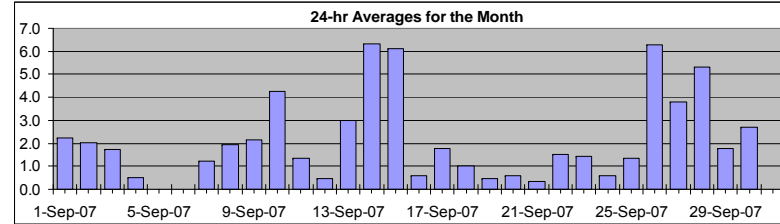
Particulate Matter (PM_{2.5})

Monitoring Dates: September 1, 2007 to October 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:	32.8 µg/m ³ 14-Sep 17:00 18:00
Maximum 24-hr Value:	6.3 µg/m ³ 14-Sep

AIC Time:	0 hrs	Operational Time:	691 hrs
Calibration Time:	9 hrs	AMD Operational Uptime:	97.2%
Percentile	99	95	75
	15.4	7.0	2.7
	50	25	5
	1.3	0.5	0.0
	1	0.0	0.0
Average / Median	2.2		1 µg/m ³
Geomean	1.6 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-Sep-07	1	3	1	1	1	2	4	4	3	3	2	2	1	2	1	1	2	1	2	6	6	5	1	1	2.2	5.9
2-Sep-07	1	1	1	1	0	1	2	4	3	2	3	3	1	2	2	1	7	2	2	1	3	1	2	2	2.0	7.2
3-Sep-07	1	2	2	2	2	2	2	2	4	3	3	2	1	0	0	1	1	5	0	3	2	3	1	1.7	5.3	
4-Sep-07	0	0	0	0	1	1	0	2	1	0	0	0	1	1	1	0	0	1	0	1	0	1	P	1	0.5	1.5
5-Sep-07	1	1	1	1	0	0	1	3	1	2	C	C	C	C	C	C	D	D	D	D	D	D	D	N	2.8	
6-Sep-07	D	D	D	D	D	D	D	D	D	C	C	C	0	0	0	0	0	2	1	0	1	0	0	0	N	2.3
7-Sep-07	0	0	0	1	0	1	1	2	2	1	2	2	2	1	0	1	2	3	2	3	2	0	0	1	1.2	2.9
8-Sep-07	2	1	1	1	1	0	1	3	2	0	2	1	1	3	6	1	5	3	3	2	3	3	2	1	2.0	6.1
9-Sep-07	0	0	1	1	0	1	1	2	2	3	2	2	3	5	4	2	3	2	3	2	3	2	3	3	2.2	4.6
10-Sep-07	3	3	3	3	3	3	3	3	4	4	4	5	3	2	4	7	3	5	3	5	17	7	2	1	4.3	17.5
11-Sep-07	1	1	1	2	2	2	3	4	7	2	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1.4	6.8
12-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	0	0	0.5	2.2
13-Sep-07	0	1	0	1	1	0	2	2	2	2	P	3	4	3	4	4	3	5	10	8	5	3	3	2	3.0	9.8
14-Sep-07	2	2	2	2	2	1	1	6	5	5	5	4	5	5	5	10	5	33	8	12	14	8	6	4	6.3	32.8
15-Sep-07	4	5	5	5	7	4	4	5	5	6	9	5	3	6	2	9	19	13	5	7	8	6	4	2	6.1	19.2
16-Sep-07	0	1	0	0	0	0	1	2	3	1	0	0	0	2	0	0	0	0	1	1	0	1	1	0	0.6	3.2
17-Sep-07	1	0	1	1	1	2	2	2	2	1	0	1	2	1	2	4	2	3	3	6	2	2	1	0	1.8	5.8
18-Sep-07	0	0	0	0	0	1	1	1	1	0	1	1	1	0	2	1	1	2	4	3	1	0	3	1	1.0	3.6
19-Sep-07	1	1	1	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0.5	2.6
20-Sep-07	0	0	0	0	0	0	0	1	2	1	1	0	1	1	1	1	0	1	1	P	2	0	0	0	0.6	1.7
21-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	1	1	0.3	1.8
22-Sep-07	0	0	0	0	1	2	2	2	3	3	2	2	1	1	1	2	1	1	1	2	2	2	2	2	1.5	3.1
23-Sep-07	2	2	2	2	2	0	0	4	2	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1.4	3.5
24-Sep-07	1	1	0	0	1	0	0	2	3	0	0	0	0	1	1	1	0	2	0	0	0	0	1	0	0.6	3.0
25-Sep-07	0	1	1	1	1	1	2	2	2	1	1	2	1	0	5	1	2	3	1	1	1	1	1	0	1.4	4.8
26-Sep-07	0	0	0	1	1	2	1	2	2	6	4	2	8	6	4	9	3	3	5	16	14	15	32	15	6.3	32.2
27-Sep-07	5	3	3	0	3	1	17	4	3	1	3	4	4	4	4	6	7	7	2	6	1	0	2	1	3.8	16.8
28-Sep-07	1	0	1	0	0	1	1	2	4	2	3	7	9	13	8	10	10	9	11	24	7	4	0	1	5.3	23.6
29-Sep-07	2	3	1	1	0	1	1	1	0	0	0	0	0	1	1	0	2	6	4	6	1	3	4	6	1.8	6.0
30-Sep-07	6	4	3	2	1	3	3	5	3	6	4	3	0	1	2	1	1	2	2	2	5	4	2	1	2.7	5.9
Hourly Avg	1.2	1.3	1.0	1.0	1.1	1.2	2.0	2.6	2.5	2.0	1.9	2.0	1.8	2.2	2.1	2.6	2.8	3.9	2.9	4.3	3.6	2.6	2.8	1.7		
Hourly Max	5.9	4.9	4.9	4.9	6.9	4.3	16.8	5.6	6.8	5.8	8.8	7.0	8.9	12.6	8.1	10.3	19.2	32.8	11.3	23.6	17.5	14.6	32.2	15.4		

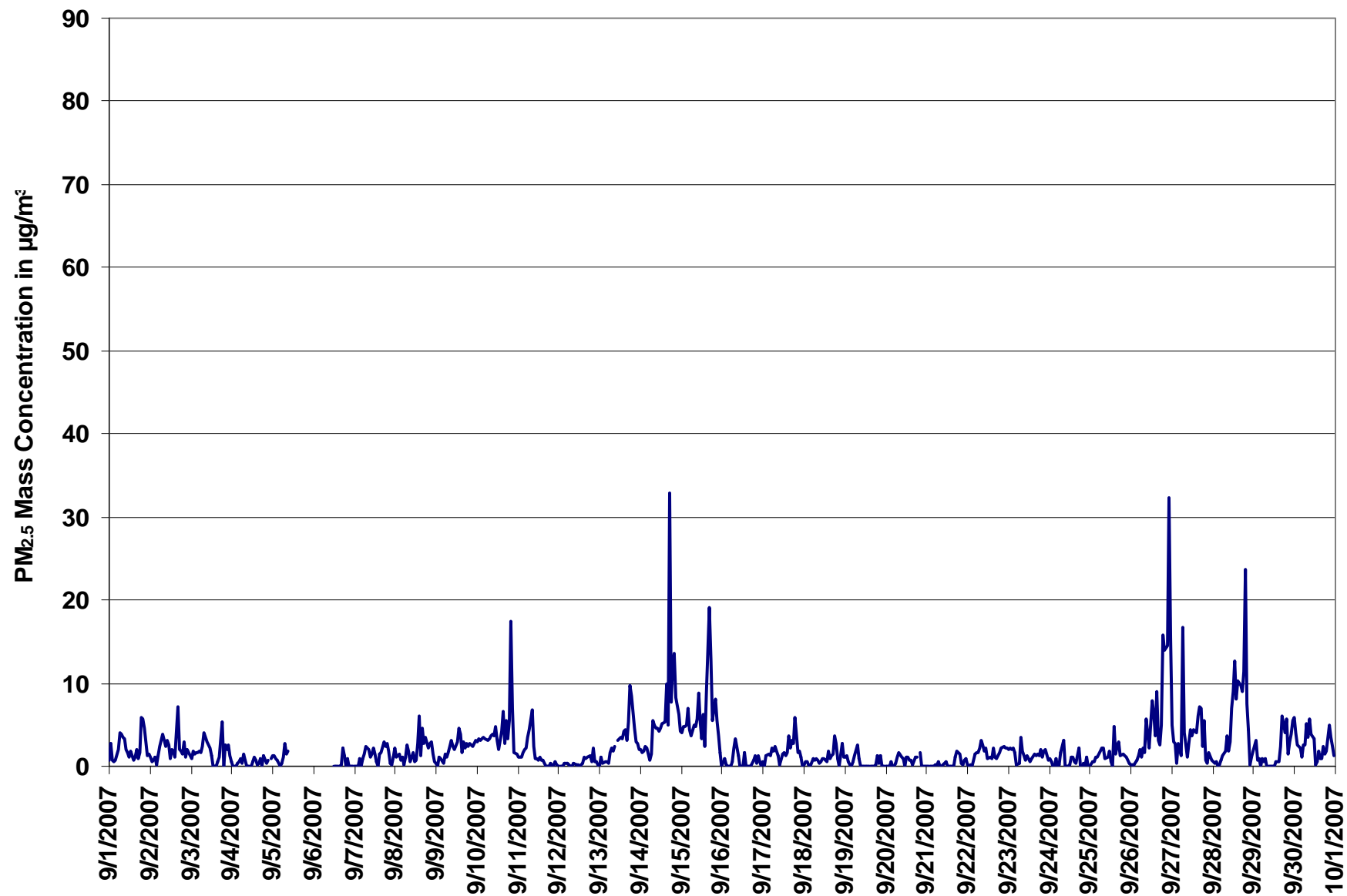


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

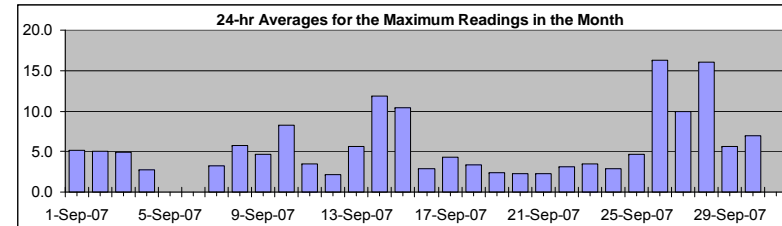
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	94.5	µg/m ³	26-Sep	22:00 23:00
Maximum 24-hr Value:	16.3	µg/m ³	26-Sep	



AIC Time:	0 hrs	Operational Time:	692 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	97.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	38.2	16.1	5.7	3.4	2.4	1.2	0.6	5.6 3 µg/m ³	4.8 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-Sep-07	3	6	2	2	2	5	7	7	5	5	4	5	3	4	3	5	7	6	6	14	10	8	3	3	5.2	13.7
2-Sep-07	4	3	3	3	3	4	4	5	5	4	8	6	3	7	8	4	20	4	4	3	6	3	3	4	5.0	20.1
3-Sep-07	3	3	3	4	3	4	3	4	6	4	6	7	5	4	5	5	5	4	13	5	7	5	5	3	4.9	13.4
4-Sep-07	2	2	2	2	2	2	1	3	2	3	3	2	3	3	5	7	4	4	3	3	2	1	P	2	2.8	6.9
5-Sep-07	2	3	3	2	1	3	3	5	3	4	C	C	C	C	C	C	D	D	D	D	D	D	D	D	N	4.8
6-Sep-07	D	D	D	D	D	D	D	0	D	C	C	C	4	3	1	1	4	4	4	2	4	2	2	1	N	4.2
7-Sep-07	1	1	1	2	1	3	4	4	4	3	5	5	4	2	2	3	5	7	4	6	3	2	2	3	3.2	7.0
8-Sep-07	3	3	4	3	3	1	3	4	4	3	3	2	5	14	15	5	12	6	10	13	9	6	5	2	5.7	14.9
9-Sep-07	3	3	3	2	2	3	3	3	5	5	4	4	6	12	17	3	4	4	5	4	4	4	4	5	4.7	17.0
10-Sep-07	4	4	4	5	5	4	4	6	6	5	10	10	5	6	12	14	18	5	14	29	17	4	2	8.3	29.2	
11-Sep-07	3	3	3	3	3	4	8	6	14	5	5	3	2	3	3	3	2	1	1	2	1	1	2	2	3.5	14.2
12-Sep-07	1	1	1	2	2	1	1	1	2	2	2	2	2	3	2	2	3	3	3	2	7	2	2	1	2.1	6.8
13-Sep-07	1	2	2	2	3	2	3	4	4	4	P	4	5	5	6	6	5	11	18	15	12	7	5	4	5.7	17.7
14-Sep-07	4	4	5	4	4	2	3	7	10	7	7	7	6	7	7	28	15	53	19	32	23	14	9	7	11.8	53.3
15-Sep-07	7	8	7	6	11	6	5	7	7	8	12	9	6	16	7	19	38	20	8	11	14	8	6	3	10.4	37.8
16-Sep-07	2	3	3	1	4	3	4	5	5	5	1	2	1	5	3	2	1	1	3	3	3	3	2	2	2.8	5.3
17-Sep-07	2	1	5	4	3	4	3	4	3	3	2	6	7	3	4	8	5	5	5	13	3	4	3	2	4.3	12.9
18-Sep-07	2	2	1	1	2	3	2	3	2	2	2	2	2	2	4	3	3	3	7	7	3	4	11	6	3.3	10.6
19-Sep-07	3	4	3	2	1	2	5	7	3	1	2	1	2	1	2	2	2	1	3	3	3	4	0	1	2.4	6.6
20-Sep-07	2	0	1	2	1	1	2	2	3	3	2	1	5	3	4	3	3	3	P	3	2	1	2	2	2.3	5.0
21-Sep-07	1	2	1	0	2	1	3	4	3	2	2	2	3	3	2	2	2	3	5	4	1	3	3	2	2.3	5.3
22-Sep-07	1	1	1	1	4	3	3	4	5	4	3	5	3	3	3	4	3	2	3	4	4	4	4	4	3.1	4.7
23-Sep-07	3	4	3	3	3	3	3	5	6	3	2	4	3	2	2	3	3	3	7	3	4	3	3	3	3.5	6.8
24-Sep-07	3	2	0	1	3	0	1	4	11	6	2	3	2	3	4	2	2	5	3	1	2	1	3	1	2.8	11.2
25-Sep-07	1	2	3	3	2	3	3	4	4	3	3	8	5	2	25	9	6	9	4	3	2	4	3	2	4.6	24.5
26-Sep-07	1	2	2	2	3	4	3	4	3	26	8	5	17	14	15	29	5	5	8	33	27	34	94	46	16.3	94.5
27-Sep-07	7	6	5	2	13	8	40	28	5	4	5	10	6	11	6	17	14	12	12	16	4	4	5	3	10.0	39.6
28-Sep-07	2	2	2	1	1	2	4	7	8	4	10	15	38	63	17	21	19	14	32	60	39	15	3	4	16.0	62.5
29-Sep-07	8	12	3	3	2	7	2	4	2	1	1	1	1	2	3	3	5	12	14	16	3	6	11	14	5.6	15.7
30-Sep-07	17	7	5	5	3	8	10	9	12	15	7	7	3	2	6	3	2	6	4	4	13	6	7	3	6.9	17.0
Hourly Avg	3.4	3.3	2.8	2.6	3.2	3.3	4.9	5.3	5.2	5.1	4.3	5.0	5.7	7.1	6.3	7.4	7.3	7.9	7.3	10.6	8.4	6.2	7.2	4.7		
Hourly Max	17.0	12.1	7.3	6.5	13.2	8.2	39.6	27.7	14.2	26.5	11.6	15.2	38.1	62.5	24.5	29.3	37.8	53.3	31.9	59.6	39.2	34.3	94.5	46.2		

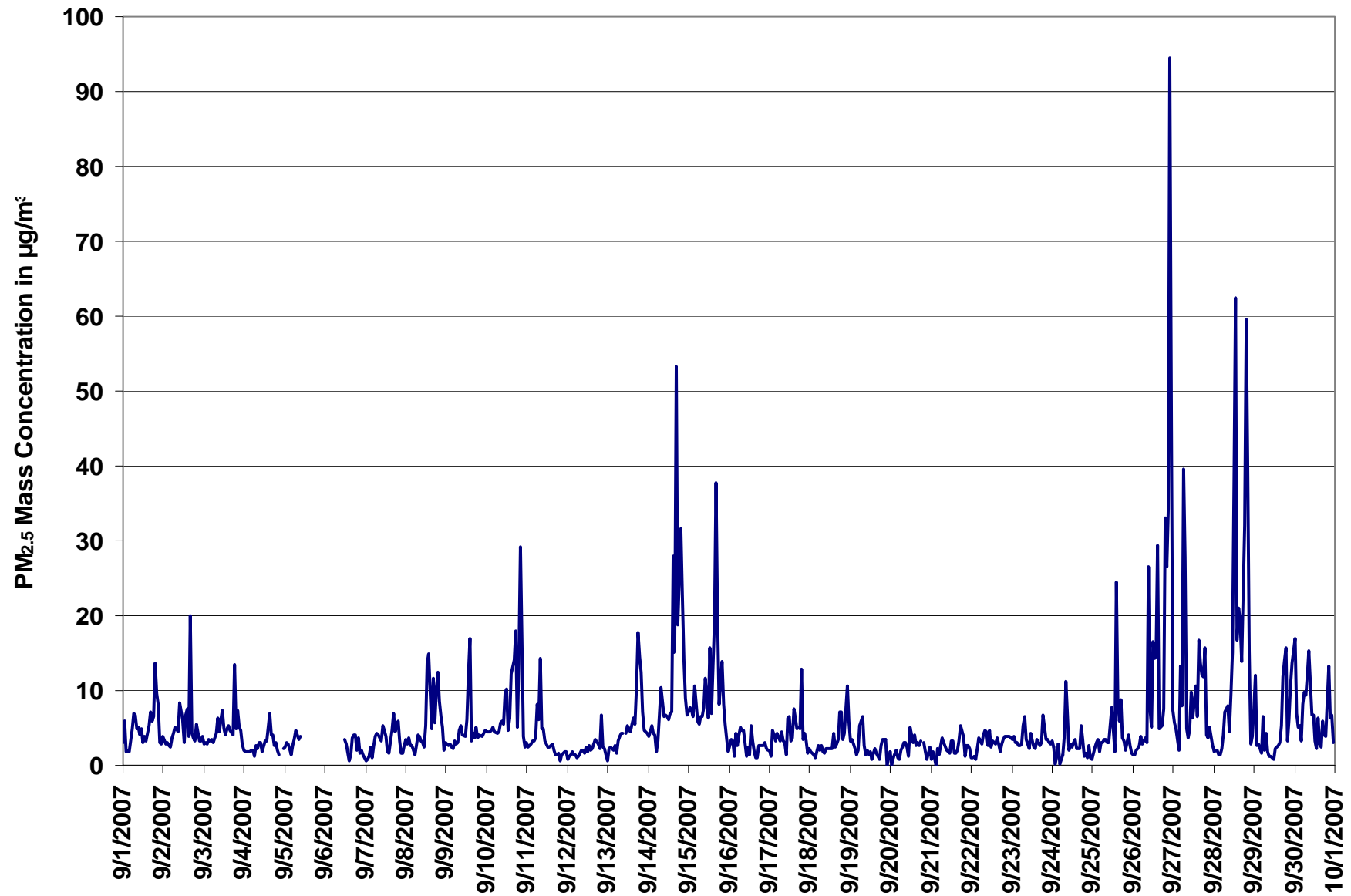
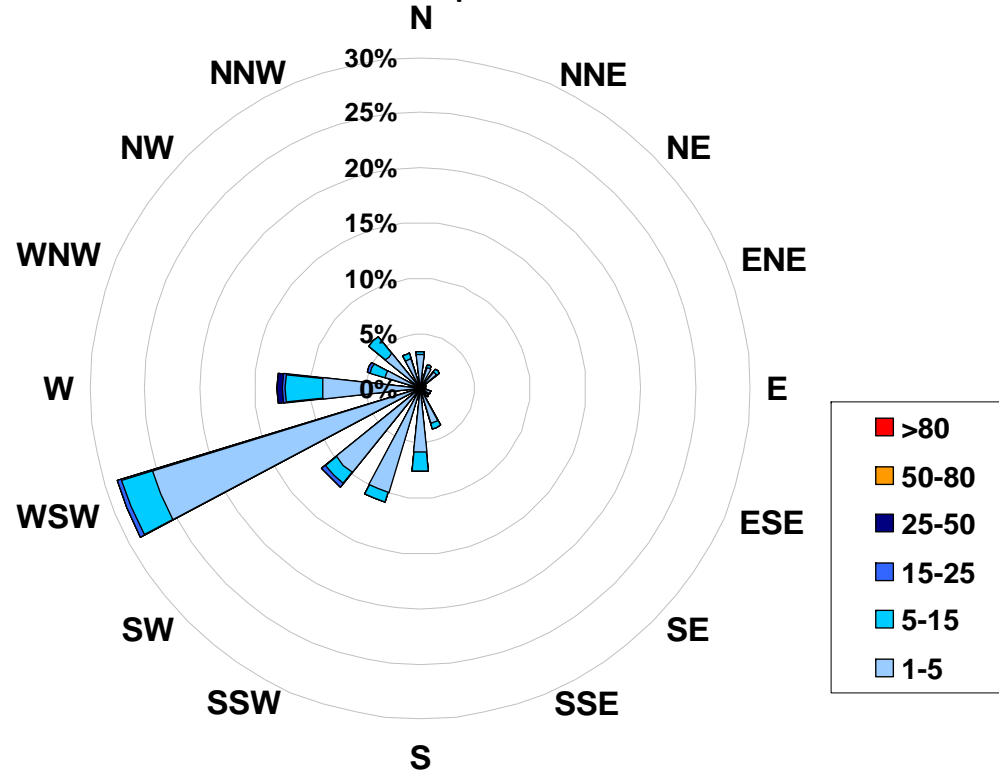


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Smoky Heights Site for September 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	620
5	to	15	63
15	to	25	6
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			691

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

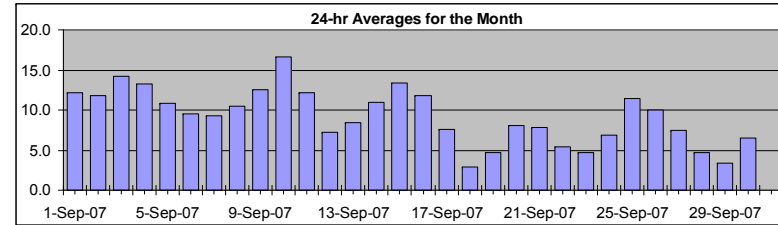
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	23.6	°C	15-Sep	14:00 15:00
Maximum 24-hr Value:	16.6	°C	10-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.5	18.9	13.0	8.9	5.1	1.1	-1.4	9.2 °C	8.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Sep-07	7	8	7	6	6	6	6	9	12	14	15	17	18	19	19	19	18	19	17	13	11	9	8	8	12.1	19.2
2-Sep-07	7	6	7	7	6	6	6	8	10	14	16	18	19	19	19	19	16	14	15	12	10	10	10	11	11.8	19.4
3-Sep-07	10	11	11	11	10	10	10	11	11	12	14	17	18	19	20	19	19	19	17	16	14	14	14	13	14.2	19.6
4-Sep-07	13	13	12	11	11	11	11	11	12	14	15	16	15	16	17	16	17	17	16	14	11	11	10	9	13.3	17.0
5-Sep-07	9	8	9	8	6	6	6	7	9	11	13	14	15	15	14	16	15	15	15	12	10	9	9	10	10.9	15.6
6-Sep-07	9	7	7	7	6	6	6	7	9	10	11	13	14	13	13	15	16	13	11	9	7	7	6	7	9.5	15.7
7-Sep-07	6	4	4	5	4	4	4	6	9	11	13	14	15	16	16	16	14	13	11	10	8	7	5	5	9.2	16.1
8-Sep-07	6	7	7	7	8	8	6	9	11	13	13	14	15	16	16	16	15	15	15	11	7	5	6	5	10.5	16.0
9-Sep-07	4	4	4	5	5	5	5	6	10	13	15	16	18	19	21	22	21	20	18	16	15	13	13	14	12.6	21.6
10-Sep-07	13	12	12	12	12	12	13	13	14	17	19	21	22	23	23	23	24	23	22	18	14	13	13	12	16.6	23.5
11-Sep-07	12	12	12	12	12	11	12	12	15	15	13	14	13	13	13	13	14	13	13	12	11	9	9	7	12.1	15.5
12-Sep-07	5	6	6	5	5	5	5	5	5	5	6	8	10	11	11	12	13	13	11	8	5	4	4	4	7.2	12.9
13-Sep-07	2	2	2	0	0	0	0	2	3	6	9	12	14	16	18	19	19	19	17	13	9	7	6	6	8.5	19.2
14-Sep-07	4	4	3	3	3	2	2	3	6	9	13	17	19	20	22	23	22	21	19	13	10	8	8	6	10.9	22.5
15-Sep-07	6	6	6	6	6	5	4	5	7	10	13	17	21	23	24	22	20	19	19	19	17	17	15	13	13.3	23.6
16-Sep-07	12	12	12	13	11	11	10	11	12	13	13	13	14	13	14	16	15	15	14	11	10	8	6	5	11.8	15.6
17-Sep-07	3	2	2	3	3	3	2	4	7	9	11	12	12	12	13	13	12	12	12	10	7	6	6	5	7.6	13.1
18-Sep-07	3	2	2	2	1	1	1	1	2	2	3	4	4	4	4	5	5	4	4	3	3	3	3	3	2.9	5.0
19-Sep-07	2	2	2	1	0	-2	-2	0	2	4	6	7	7	8	9	9	9	9	8	8	7	7	5	5	4.7	9.3
20-Sep-07	5	5	4	4	6	5	5	6	7	9	11	12	12	12	12	12	11	11	10	9	8	8	7	7	8.1	12.3
21-Sep-07	7	6	6	4	3	3	4	5	5	5	6	8	11	14	15	16	15	14	11	8	6	5	5	6	7.8	15.8
22-Sep-07	6	5	3	2	2	2	4	4	6	8	8	8	8	9	7	8	7	7	6	4	3	3	3	3	5.5	8.7
23-Sep-07	3	3	3	3	3	2	0	1	3	4	6	7	8	9	9	10	9	10	8	3	1	2	2	0	4.6	10.2
24-Sep-07	1	0	-1	-2	-1	-1	-2	-1	2	5	8	11	13	14	13	14	14	13	13	12	11	11	10	8	6.8	14.4
25-Sep-07	8	7	8	8	8	8	9	9	10	12	13	14	15	16	16	16	15	14	12	12	12	11	11	10	11.4	16.3
26-Sep-07	10	11	11	10	10	9	9	10	9	11	12	14	14	15	14	14	14	13	11	8	6	3	3	1	10.1	14.6
27-Sep-07	1	1	1	2	1	1	1	2	3	7	9	10	12	14	14	15	15	14	13	11	10	9	8	7	7.5	14.9
28-Sep-07	7	6	5	3	3	2	2	2	3	5	6	7	7	8	9	8	7	7	5	3	2	2	2	0	4.7	8.6
29-Sep-07	0	0	0	0	-1	-3	-3	-2	-1	0	2	5	7	9	10	11	10	9	7	6	4	4	3	3	3.3	10.5
30-Sep-07	3	3	3	3	3	2	1	2	3	5	7	8	11	12	13	12	11	11	7	8	8	7	6	6	6.5	13.0
Hourly Avg	6.1	5.7	5.6	5.4	5.1	4.7	4.7	5.6	7.1	9.0	10.8	12.3	13.5	14.1	14.7	14.9	14.5	13.9	12.6	10.4	8.7	7.7	7.2	6.7		
Hourly Max	12.8	12.6	12.3	12.5	12.5	12.5	12.6	12.9	14.5	16.6	18.8	20.9	22.1	23.3	23.6	23.4	23.5	23.3	22.0	18.6	17.5	16.6	14.8	13.7		

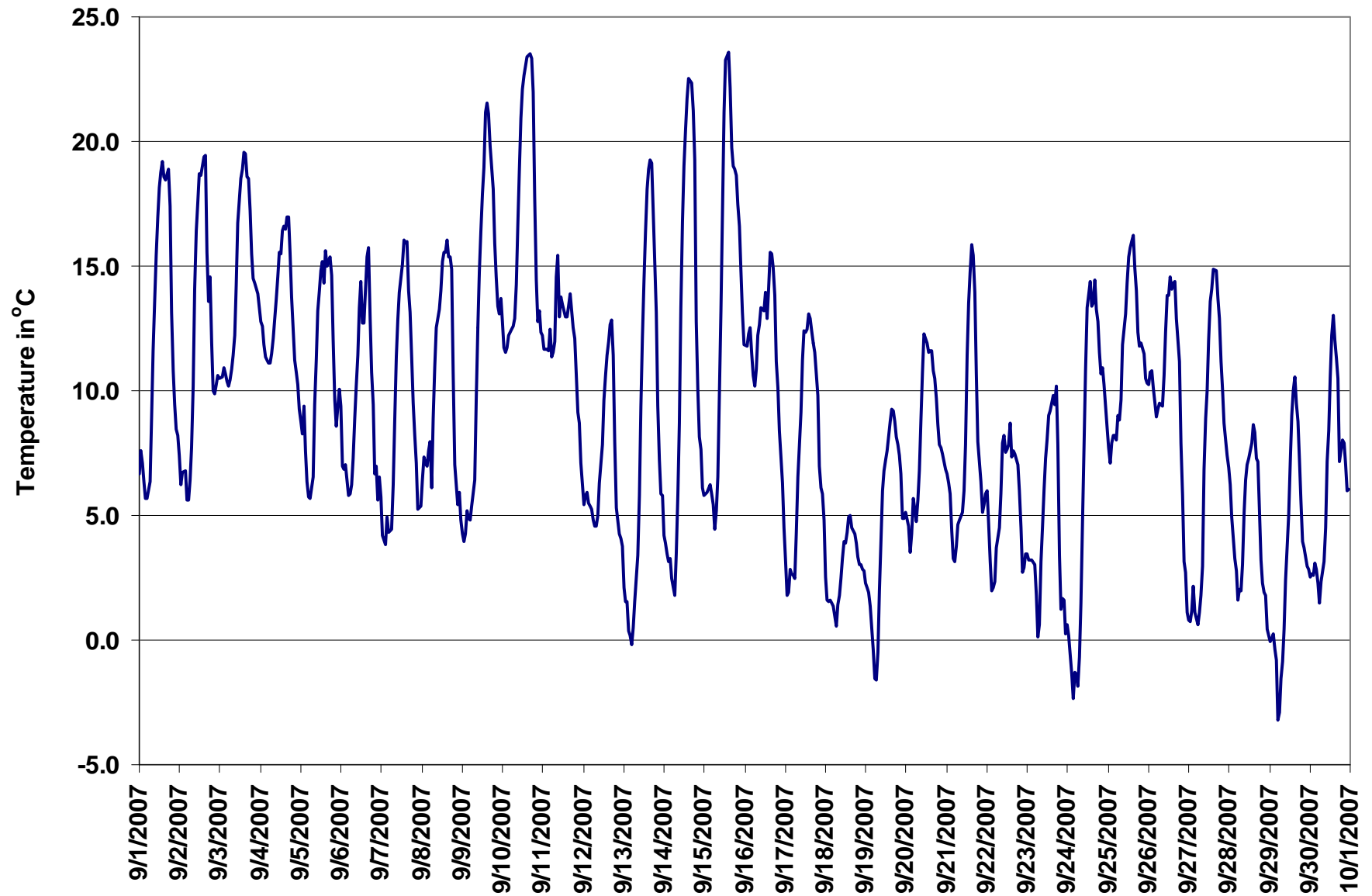


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

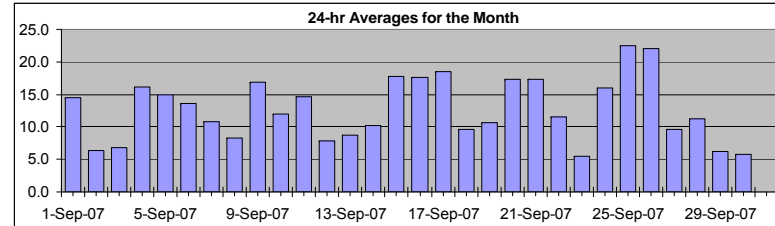
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	40.2	km/hr	21-Sep	15:00 16:00
Maximum 24-hr Value:	22.5	km/hr	25-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	32.7	26.1	17.0	10.9	7.5	3.9	2.8	12.7 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	23:00 0:00		
1-Sep-07	10	12	16	13	7	11	10	14	19	21	24	22	22	25	21	16	14	14	11	9	10	10	8	7	14.5	24.9
2-Sep-07	7	7	6	4	4	6	6	5	8	5	5	7	7	6	7	7	19	8	6	5	4	5	4	5	6.4	18.7
3-Sep-07	7	9	11	6	6	6	6	6	6	6	6	5	6	6	7	11	10	9	4	2	4	3	9	12	6.8	12.2
4-Sep-07	8	8	6	5	7	8	10	14	16	21	27	26	29	23	24	20	20	21	22	15	13	15	17	13	16.2	29.2
5-Sep-07	13	11	14	13	14	12	4	8	12	13	20	23	23	23	13	24	21	19	14	13	8	13	14	19	15.0	23.5
6-Sep-07	21	19	19	19	13	7	13	13	16	20	19	16	18	13	14	19	20	9	7	4	5	7	8	11	13.7	21.5
7-Sep-07	11	12	11	10	13	12	9	7	11	12	8	8	12	10	12	12	15	9	9	8	11	12	10	14	10.7	14.6
8-Sep-07	16	10	8	7	10	8	12	5	4	6	8	8	7	8	9	15	12	9	8	5	7	7	6	5	8.2	16.2
9-Sep-07	5	7	8	10	8	9	11	10	11	18	23	21	19	18	23	25	24	24	21	20	20	19	23	24	16.8	24.7
10-Sep-07	22	21	19	17	13	5	6	8	10	11	11	10	14	15	13	13	11	8	6	4	7	11	14	15	11.9	22.3
11-Sep-07	14	16	17	17	19	20	15	6	9	16	6	10	13	14	17	18	21	22	16	18	15	11	12	10	14.6	21.6
12-Sep-07	10	10	10	7	9	9	7	9	9	8	8	7	6	8	7	10	8	7	8	5	4	7	7	7	7.9	10.4
13-Sep-07	8	8	8	9	9	8	8	8	9	10	10	11	11	11	12	12	11	8	7	4	6	9	8	7	8.8	12.1
14-Sep-07	6	8	9	11	11	8	9	9	10	10	9	11	16	16	15	16	17	9	5	5	9	8	8	8	10.2	17.2
15-Sep-07	11	11	10	9	11	11	10	10	11	11	12	13	24	30	33	31	23	17	19	23	22	26	23	26	17.7	32.9
16-Sep-07	16	10	18	14	14	10	9	10	10	14	23	22	29	24	19	21	27	30	22	16	22	18	13	11	17.5	30.3
17-Sep-07	8	6	10	16	17	14	15	14	16	24	30	30	28	30	31	29	28	20	19	16	14	7	7	13	18.4	30.9
18-Sep-07	12	9	8	11	12	11	10	14	13	12	12	11	11	11	10	11	10	9	5	5	6	6	5	6	9.7	14.3
19-Sep-07	6	4	4	3	3	3	3	3	4	11	14	13	18	16	14	15	15	12	12	12	11	23	20	19	10.7	22.8
20-Sep-07	18	13	11	15	19	17	16	17	18	23	22	23	22	23	24	25	25	22	17	12	9	9	9	8	17.3	25.1
21-Sep-07	10	10	6	4	3	4	5	6	6	8	12	18	21	26	33	40	38	36	36	24	16	16	20	17	17.3	40.2
22-Sep-07	19	16	12	12	13	15	17	15	9	11	11	14	13	15	16	14	12	10	9	8	6	4	3	4	11.5	18.8
23-Sep-07	4	4	4	3	5	4	5	5	5	8	8	8	7	6	6	5	6	5	5	3	3	7	7	9	5.4	8.7
24-Sep-07	6	8	7	8	9	8	9	10	11	14	17	18	20	23	21	22	24	17	26	25	19	19	20	20	15.9	26.1
25-Sep-07	22	19	18	17	15	15	19	20	22	30	31	25	27	25	27	30	30	30	21	22	21	19	17	17	22.5	30.8
26-Sep-07	18	22	26	26	24	21	26	26	32	35	31	29	24	24	24	27	33	21	12	10	11	10	12	7	22.0	34.6
27-Sep-07	8	6	6	5	6	7	6	5	4	9	14	10	12	11	12	10	11	10	16	16	11	12	12	10	9.6	16.4
28-Sep-07	11	10	8	10	14	13	11	5	3	11	16	20	16	13	10	15	12	10	11	11	11	9	9	8	11.2	19.7
29-Sep-07	10	6	4	4	2	2	3	4	5	5	7	8	9	8	9	10	9	7	9	8	8	6	4	4	6.3	10.0
30-Sep-07	6	3	3	4	4	5	4	3	2	3	4	6	6	8	6	9	9	10	8	9	6	5	6	9	5.7	10.3
1-hr Average	11.4	10.4	10.6	10.3	10.5	9.6	9.8	9.7	10.8	13.6	14.8	15.1	16.4	16.3	16.4	17.6	17.9	14.7	13.1	11.2	10.6	11.1	11.1	11.5		
Hourly Max	22.3	21.6	26.3	26.2	23.7	21.2	25.8	26.1	32.0	34.6	31.1	29.7	29.2	30.3	33.0	40.2	38.0	36.5	36.1	25.4	22.4	25.6	23.2	25.6		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

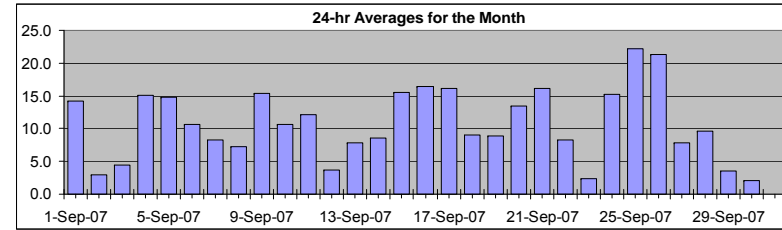
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	11.5	km/hr	2-Sep	16:00 17:00
Maximum 24-hr Value:	22.1	km/hr	25-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	6.1	4.7	3.1	2.1	1.4	0.8	0.6	77.8 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	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Sep-07	1	2	2	3	3	2	2	2	2	3	3	3	5	4	4	4	3	2	2	1	1	1	1	2	14.1	4.7		
2-Sep-07	1	1	1	1	1	2	2	2	2	2	3	2	3	3	3	12	2	2	3	1	1	1	1	2	3.0	11.5		
3-Sep-07	2	2	1	2	1	1	1	1	1	1	2	2	3	3	3	2	2	1	2	1	1	1	3	2	4.4	3.2		
4-Sep-07	1	2	2	2	2	1	1	1	2	4	4	4	4	4	4	5	6	3	4	3	2	2	2	2	15.2	5.7		
5-Sep-07	2	2	2	2	1	1	2	1	2	1	5	3	4	3	6	3	5	4	2	2	1	1	1	4	14.8	5.8		
6-Sep-07	2	2	2	2	3	2	2	2	2	3	3	4	3	8	3	5	4	4	3	2	3	3	3	2	10.7	7.9		
7-Sep-07	1	2	1	2	1	2	3	3	1	2	4	3	4	4	3	4	4	3	2	2	2	2	1	2	8.4	4.0		
8-Sep-07	1	4	2	2	2	2	2	3	1	3	2	2	3	3	4	3	3	2	1	1	1	2	1	1	7.2	4.4		
9-Sep-07	1	1	2	1	1	1	1	1	2	3	3	3	3	3	4	4	3	3	2	2	2	3	2	2	15.3	3.9		
10-Sep-07	2	1	1	1	5	1	2	1	1	2	2	2	2	3	3	3	3	1	1	2	1	1	1	1	10.6	5.1		
11-Sep-07	1	1	1	2	1	2	5	2	3	5	4	3	2	2	3	2	4	5	3	4	3	2	3	2	12.1	5.3		
12-Sep-07	2	2	2	2	3	2	2	3	3	3	3	2	3	2	3	2	2	2	1	2	1	1	1	1	3.7	3.4		
13-Sep-07	1	0	1	1	0	1	1	1	1	1	2	2	2	2	2	3	2	1	1	1	2	1	1	1	7.8	2.8		
14-Sep-07	1	1	1	1	1	2	1	1	1	1	2	2	2	3	3	3	3	3	1	1	2	1	1	1	8.5	3.4		
15-Sep-07	1	1	1	1	1	1	2	2	1	2	2	5	6	4	5	5	4	2	3	4	2	5	4	4	15.5	5.8		
16-Sep-07	2	3	4	3	3	2	2	2	1	5	4	5	4	4	6	4	6	5	4	4	3	2	1	2	16.4	6.1		
17-Sep-07	2	1	4	1	1	3	3	2	2	4	4	4	3	3	4	4	4	3	2	3	3	2	2	4	16.1	4.5		
18-Sep-07	3	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	2	2	1	1	2	1	1	1	9.1	3.4		
19-Sep-07	1	2	1	2	1	1	1	1	3	2	3	3	3	3	3	3	2	1	2	2	2	5	2	2	8.8	4.6		
20-Sep-07	2	1	1	2	2	2	1	1	2	4	4	4	4	4	5	5	5	5	3	3	2	2	2	2	13.5	5.0		
21-Sep-07	1	1	1	1	1	2	2	1	1	2	1	2	4	5	5	6	5	6	8	4	1	2	2	2	16.1	7.6		
22-Sep-07	2	2	2	1	2	1	2	3	1	3	2	3	3	3	4	5	3	3	2	2	2	2	1	1	8.4	4.8		
23-Sep-07	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	2	3	2	2	1	1	3	1	2	2.4	3.2		
24-Sep-07	1	2	1	1	1	1	1	1	1	1	2	3	4	3	3	3	4	4	4	3	3	3	4	2	15.3	4.5		
25-Sep-07	2	3	2	2	2	3	2	2	3	4	3	5	3	4	5	5	5	4	3	5	3	3	1	2	22.1	5.2		
26-Sep-07	2	4	4	3	2	3	3	3	4	4	5	4	4	6	5	8	5	4	3	1	1	1	1	2	21.2	8.4		
27-Sep-07	3	1	1	1	1	1	1	1	2	2	2	2	2	3	2	3	2	1	4	5	7	4	2	1	7.8	6.7		
28-Sep-07	2	2	2	3	1	1	2	2	2	7	3	3	3	4	3	5	4	3	2	1	2	2	2	3	9.5	7.4		
29-Sep-07	1	1	3	2	1	1	1	1	1	1	2	3	3	3	2	2	2	2	2	1	1	1	2	2	3.6	3.0		
30-Sep-07	2	1	1	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	2	1	2.1	2.4		
1-hr Vector	9.0	8.4	9.0	9.0	8.8	8.1	7.8	7.3	7.5	9.3	10.2	10.2	10.7	11.9	12.1	13.1	13.8	9.6	8.4	7.3	6.9	7.8	8.6	9.1				
Hourly Max	3.4	3.8	4.3	3.0	5.1	2.9	5.3	3.4	3.7	7.4	5.2	4.9	5.8	7.9	5.8	8.4	11.5	5.8	7.6	4.7	6.7	5.5	3.8	4.2				

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	346.6	328.1	261.6	242.7	202.9	53.0	8.9	248 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		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	215	255	260	256	243	252	262	258	252	244	248	252	256	259	257	237	225	261	247	224	259	269	255	212	250	WSW
2-Sep-07	235	200	247	234	244	279	204	201	255	279	179	180	216	194	175	153	282	354	9	39	13	339	359	202	241	WSW
3-Sep-07	259	231	253	230	179	185	161	161	175	143	179	211	193	182	175	178	168	157	181	19	97	73	299	282	197	SSW
4-Sep-07	328	334	252	250	235	227	229	230	235	242	252	259	270	276	274	271	267	257	251	236	230	245	250	250	256	WSW
5-Sep-07	255	254	254	257	253	247	273	262	233	236	249	253	260	252	243	242	250	238	227	246	253	238	256	257	249	WSW
6-Sep-07	255	259	249	255	237	226	224	234	232	231	228	262	294	279	265	279	272	30	109	139	16	112	217	233	251	WSW
7-Sep-07	230	255	238	231	241	252	251	246	253	277	290	320	347	21	321	320	322	305	228	269	266	253	251	256	273	W
8-Sep-07	262	248	223	229	253	237	264	268	111	326	313	288	323	255	281	257	286	250	244	262	272	256	242	234	263	W
9-Sep-07	202	197	176	180	192	191	193	192	190	235	241	250	257	262	253	244	241	243	242	238	238	248	258	264	237	WSW
10-Sep-07	263	262	262	259	255	220	200	210	228	228	219	200	204	223	220	218	210	168	137	243	234	241	248	258	234	SW
11-Sep-07	249	254	260	247	252	258	262	247	304	334	349	272	260	236	244	256	289	306	300	324	335	326	331	338	281	W
12-Sep-07	338	330	321	330	332	330	326	344	343	319	311	267	263	239	215	199	215	181	159	141	198	219	214	207	280	W
13-Sep-07	227	222	219	229	226	229	220	223	194	191	175	165	170	181	197	216	231	197	168	181	257	263	246	243	210	SSW
14-Sep-07	203	201	203	208	199	199	202	195	179	175	181	200	194	217	243	256	252	268	328	276	270	273	235	212	220	SW
15-Sep-07	211	209	206	223	193	188	194	195	189	185	181	189	246	257	260	258	274	264	260	260	261	243	246	243	239	WSW
16-Sep-07	254	223	251	268	252	251	180	174	168	204	245	249	249	244	250	244	248	247	249	240	239	251	256	268	243	WSW
17-Sep-07	252	243	237	246	257	256	257	241	232	245	259	263	256	254	255	257	254	249	248	297	352	8	9	353	260	W
18-Sep-07	19	12	340	328	323	322	309	320	323	331	345	337	314	297	326	318	337	331	350	312	308	292	284	313	327	NNW
19-Sep-07	230	266	278	211	299	255	330	298	156	163	161	182	162	164	159	164	172	154	158	168	170	237	195	195	182	S
20-Sep-07	191	199	211	233	242	237	237	244	232	243	259	298	315	298	306	305	297	307	312	311	293	313	319	232	272	W
21-Sep-07	242	250	216	221	202	199	209	221	188	173	177	173	189	214	224	240	239	240	239	233	230	240	245	237	226	SW
22-Sep-07	238	244	245	245	245	248	255	262	277	319	312	311	314	309	313	344	339	336	360	41	7	0	337	329	293	WNW
23-Sep-07	21	2	41	45	59	40	9	19	87	139	154	149	166	144	128	157	212	156	144	271	215	190	204	217	143	SE
24-Sep-07	209	205	232	222	193	222	227	213	205	201	180	191	211	240	245	228	225	225	236	235	231	233	235	229	223	SW
25-Sep-07	232	237	230	244	252	251	247	246	249	251	252	255	245	255	256	248	247	241	238	232	230	227	218	227	243	WSW
26-Sep-07	232	244	245	254	251	254	256	255	257	259	274	288	290	283	271	255	254	248	243	223	237	251	265	241	258	WSW
27-Sep-07	204	210	190	227	242	244	248	262	116	149	165	192	152	176	183	190	226	203	236	263	232	155	213	202	204	SSW
28-Sep-07	214	218	212	253	264	257	260	253	220	282	287	298	304	294	314	308	313	327	305	293	309	306	318	290	285	WNW
29-Sep-07	293	280	286	303	276	198	33	56	63	88	99	87	88	99	82	34	25	18	2	5	17	6	20	323	31	NNE
30-Sep-07	272	220	175	216	262	268	244	275	234	259	282	123	103	38	22	59	56	50	42	53	40	36	344	334	24	NNE
Hourly Avg	244	244	243	246	245	245	243	241	233	240	242	249	251	251	254	252	257	255	248	255	258	252	253	249		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	76.1	55.4	20.2	11.3	6.8	3.9	2.7

Status Flag Characters

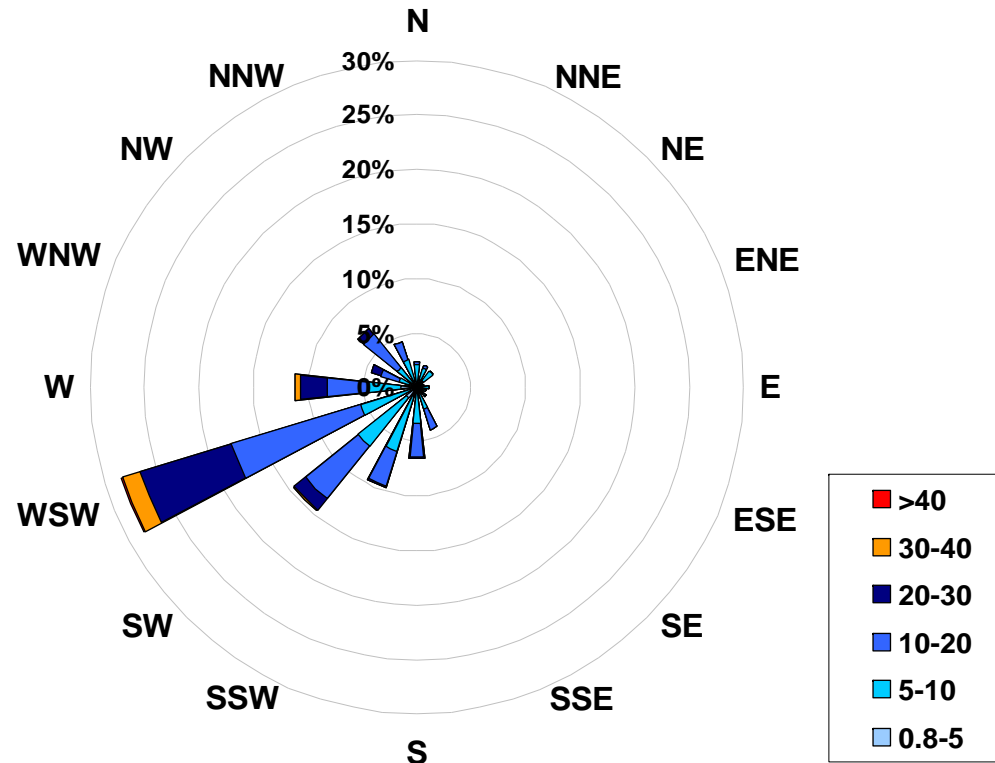
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	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-Sep-07	19	5	2	4	72	11	6	5	5	7	8	11	13	12	16	19	16	14	5	10	9	5	14	26	71.9			
2-Sep-07	22	6	16	22	55	34	70	43	20	60	58	37	51	70	43	44	51	31	22	23	25	14	28	22	69.6			
3-Sep-07	15	16	13	16	17	12	14	15	12	23	34	41	51	57	53	16	13	10	37	51	37	88	17	17	88.5			
4-Sep-07	10	13	38	72	17	7	6	7	5	8	7	7	6	9	11	14	17	6	6	6	3	7	5	9	72.5			
5-Sep-07	10	5	6	9	6	7	63	19	5	7	8	9	10	7	30	12	8	7	5	9	17	8	12	4	63.5			
6-Sep-07	3	4	5	4	16	10	7	4	5	5	7	25	10	42	14	11	16	58	36	41	55	59	20	9	58.7			
7-Sep-07	9	4	12	7	12	4	8	13	11	28	41	42	24	37	16	25	27	47	22	18	22	6	16	3	46.6			
8-Sep-07	5	21	38	34	13	44	7	75	76	61	18	28	48	50	28	21	12	9	11	21	3	16	6	14	76.3			
9-Sep-07	24	16	9	6	5	10	3	4	7	12	8	9	12	10	11	9	9	6	3	3	3	6	2	3	24.0			
10-Sep-07	2	2	2	3	15	15	18	12	7	8	17	18	13	21	15	15	18	33	7	49	12	16	6	4	48.5			
11-Sep-07	4	5	3	6	4	2	43	47	55	10	72	31	10	13	5	5	18	8	8	10	7	9	8	8	71.8			
12-Sep-07	7	8	8	13	8	7	10	10	21	21	33	61	50	48	66	19	28	28	9	15	17	8	11	13	66.4			
13-Sep-07	8	4	4	5	4	3	6	4	16	17	11	14	19	23	21	17	17	16	7	28	17	4	10	10	28.4			
14-Sep-07	14	5	9	7	12	7	9	7	3	6	12	17	12	13	15	12	10	9	17	22	7	14	36	9	36.3			
15-Sep-07	6	10	9	17	6	6	4	4	6	10	8	28	14	8	10	10	6	7	4	5	6	6	5	4	28.0			
16-Sep-07	6	42	13	8	31	52	23	11	9	35	5	7	6	7	11	11	6	8	8	8	5	10	8	13	51.6			
17-Sep-07	11	10	21	6	4	5	5	5	9	7	7	12	11	8	8	8	6	6	4	49	13	16	15	12	48.5			
18-Sep-07	9	13	17	8	7	7	5	7	8	9	14	17	15	20	34	20	15	12	12	17	16	19	14	34	34.3			
19-Sep-07	21	25	65	44	55	23	55	27	68	11	14	22	19	17	22	23	17	6	10	6	15	12	6	11	67.7			
20-Sep-07	12	6	9	5	4	4	5	5	4	13	7	17	10	10	9	10	9	11	8	12	9	15	17	21	20.7			
21-Sep-07	5	8	21	17	28	97	35	23	22	8	7	6	15	8	7	7	6	5	6	5	4	5	8	9	97.4			
22-Sep-07	6	5	12	5	9	3	4	7	7	13	14	11	15	10	15	11	13	13	18	14	17	34	85	20	84.9			
23-Sep-07	11	55	13	33	11	24	7	11	23	25	34	30	44	46	60	54	41	38	56	31	59	23	20	11	59.9			
24-Sep-07	29	14	13	12	10	9	7	8	7	8	5	14	11	7	11	6	6	5	4	4	4	5	5	5	28.9			
25-Sep-07	4	4	5	11	8	7	4	4	4	6	7	14	11	11	10	10	7	5	6	5	5	4	5	4	14.1			
26-Sep-07	5	8	4	3	3	4	3	4	3	5	12	11	10	19	8	15	8	5	14	5	7	14	6	25	25.5			
27-Sep-07	22	19	23	9	13	13	8	28	69	10	7	15	17	16	17	19	9	15	8	18	24	31	26	11	69.1			
28-Sep-07	11	9	9	13	6	5	7	40	68	54	9	12	10	21	28	15	21	12	10	9	16	13	12	18	67.6			
29-Sep-07	7	13	46	24	42	88	51	27	14	35	29	24	24	33	32	11	9	8	8	8	7	9	49	17	88.0			
30-Sep-07	85	94	50	41	32	17	17	77	70	49	57	56	64	44	60	20	12	7	9	7	13	29	14	6	94.3			

Hourly Max	85	94	65	72	72	97	70	77	76	61	72	61	64	70	66	54	51	58	56	51	59	88	85	34
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		66
5	to 10		252
10	to 20		280
20	to 30		104
30	to 40		17
	> 40		1
Total Non-Zero Values			720

PASZA – Beaverlodge Station

Monthly Summary Tables, Graphs and Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: September 1, 2007 to October 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:	677
Number of 1-hr Fair Readings:	6
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Sep-07	6	6	6	6	N	6	7	6	10	11	14	15	15	15	15	15	15	15	13	12	12	12	9	10
2-Sep-07	9	8	8	8	N	3	2	2	3	7	13	15	16	18	17	19	18	17	15	11	13	15	10	11
3-Sep-07	12	13	11	9	N	4	5	6	8	7	11	16	20	20	21	22	21	19	16	14	16	15	17	15
4-Sep-07	13	9	9	6	N	6	5	7	12	15	17	18	18	18	17	16	16	16	15	14	12	12	11	11
5-Sep-07	10	9	11	12	N	12	9	9	11	12	12	13	14	15	15	15	15	15	14	13	14	16	17	18
6-Sep-07	15	14	14	15	N	13	12	11	12	15	16	16	17	17	17	15	15	14	13	12	12	12	12	11
7-Sep-07	10	10	10	9	N	8	7	5	9	11	12	13	14	15	15	14	15	14	12	11	11	9	10	13
8-Sep-07	11	12	10	9	N	4	2	3	3	4	5	10	14	15	15	16	16	15	14	13	10	11	11	8
9-Sep-07	6	6	8	8	N	7	7	7	9	11	13	14	15	15	13	14	13	11	10	10	10	9	9	8
10-Sep-07	8	7	7	7	N	7	6	5	5	8	9	11	12	13	13	13	12	12	11	10	10	10	10	10
11-Sep-07	10	10	9	9	N	7	9	6	8	12	16	15	13	12	11	10	9	7	7	7	10	9	8	8
12-Sep-07	8	9	9	7	N	7	8	10	11	10	10	12	13	14	15	15	16	16	17	15	12	12	12	12
13-Sep-07	10	8	6	5	N	3	3	3	4	5	8	10	12	15	16	17	18	18	15	9	14	14	14	12
14-Sep-07	11	10	9	7	N	7	7	9	9	12	15	16	23	23	24	25	25	23	18	19	17	18	18	14
15-Sep-07	15	15	15	16	N	13	13	14	12	13	15	24	33	34	31	31	29	28	25	24	22	23	22	20
16-Sep-07	20	19	19	17	N	15	15	19	19	17	16	16	15	N	15	16	17	18	17	18	16	15	14	14
17-Sep-07	13	13	14	15	N	15	12	13	15	16	17	18	17	17	16	15	15	14	14	14	13	12	12	11
18-Sep-07	10	11	12	11	N	9	8	8	8	9	9	10	11	12	12	12	13	13	12	12	12	12	12	14
19-Sep-07	12	8	7	8	N	11	9	8	8	10	9	9	10	11	13	14	14	13	12	11	16	13	12	11
20-Sep-07	11	13	14	14	N	12	11	10	12	14	16	17	17	16	16	15	16	14	12	13	10	7	8	7
21-Sep-07	4	7	6	6	N	5	2	2	4	6	8	10	15	N	20	19	19	19	18	14	13	13	13	13
22-Sep-07	11	9	9	8	N	9	8	8	7	10	10	8	8	8	9	9	8	8	8	7	6	5	5	3
23-Sep-07	5	6	8	7	N	7	6	6	6	7	8	9	11	10	10	11	11	11	10	8	6	8	6	5
24-Sep-07	4	3	3	4	N	4	4	4	5	7	7	8	10	11	11	13	14	15	15	14	13	12	12	12
25-Sep-07	12	14	13	13	N	16	16	14	14	15	16	16	17	18	18	18	18	18	18	17	18	19	19	19
26-Sep-07	19	19	18	18	N	18	17	18	17	18	18	19	19	19	19	19	20	19	18	16	16	14	15	15
27-Sep-07	15	16	15	15	N	13	14	12	13	N	N	N	N	N	17	20	20	20	21	22	20	16	17	18
28-Sep-07	16	16	14	16	N	14	13	13	14	15	14	11	11	10	12	13	12	11	10	9	7	9	10	9
29-Sep-07	9	9	8	8	N	7	7	8	9	9	9	10	11	12	13	13	14	13	12	13	11	10	13	12
30-Sep-07	13	13	12	11	N	6	6	7	4	6	10	13	16	16	15	16	16	15	13	12	11	13	9	9

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

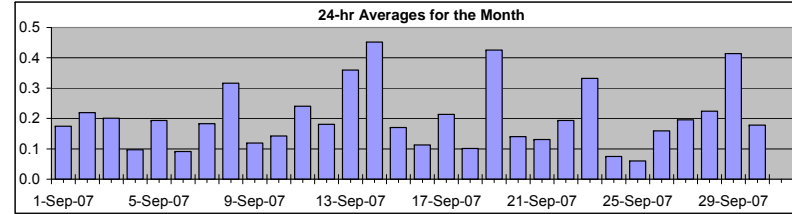
Monitoring Dates: September 1, 2007 to October 1, 2007

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	3.4 ppb	14-Sep	19:00	20:00
Maximum 24-hr Average:	0.5 ppb	14-Sep		

AIC Time:	31 hrs		Operational Time:	685 hrs					
Calibration Time:	4 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.4	0.6	0.2	0.1	0.1	0.0	0.0	0.2 ppb	0.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
2-Sep-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
3-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.5
4-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.2	1.7
6-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
7-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
8-Sep-07	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
9-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
11-Sep-07	0	0	0	0	A	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6
12-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
13-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0.4	0.6
14-Sep-07	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0.5	3.4
15-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.7
16-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
17-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.5
18-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
19-Sep-07	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0.4	1.8
20-Sep-07	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
21-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
22-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
23-Sep-07	0	0	0	0	A	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
24-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
25-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
26-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
27-Sep-07	0	0	0	0	A	0	0	0	1	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
28-Sep-07	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
29-Sep-07	0	0	0	0	A	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5
30-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
Hourly Avg	0.1	0.1	0.1	0.1	N	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1			
Hourly Max	0.5	0.5	0.5	0.8	0.0	0.8	1.9	1.3	1.5	1.6	0.9	1.1	1.0	0.6	0.6	0.7	1.8	1.7	0.7	3.4	1.4	0.8	0.4	0.5			

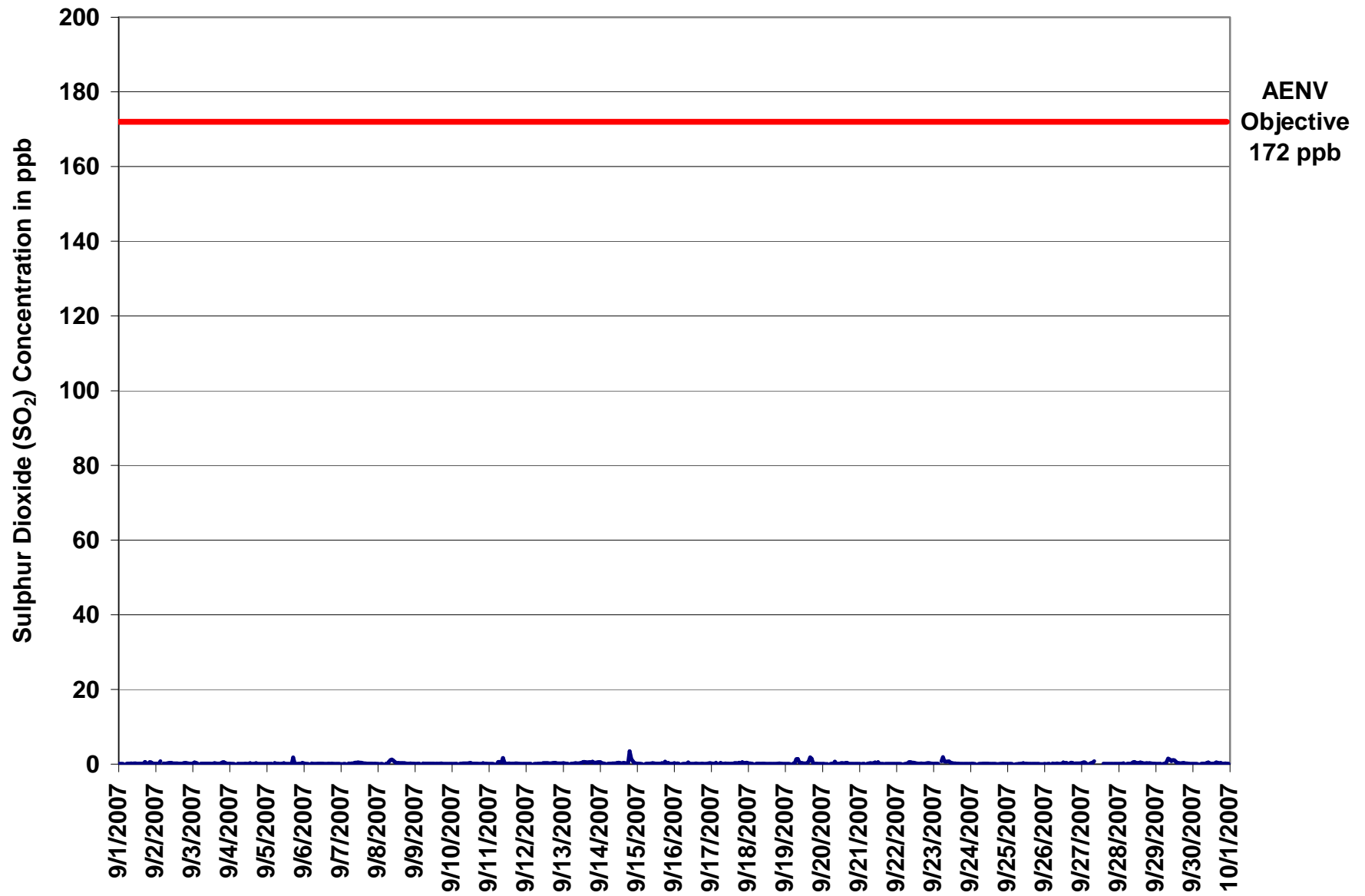


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

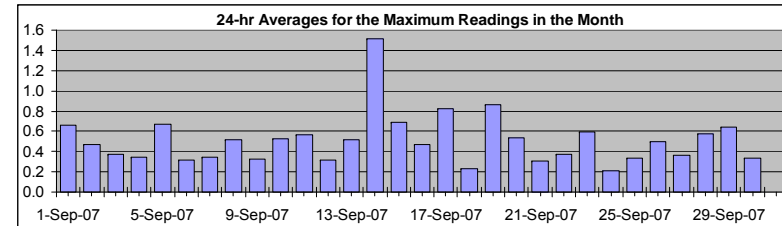
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	14.7	ppb	14-Sep	19:00 20:00
Maximum 24-hr Value:	1.5	ppb	14-Sep	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.1	1.3	0.5	0.3	0.2	0.1	0.1	0.5 ppb	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	1	2	1	0	4	3	0	0	0.7	4.4	
2-Sep-07	0	0	0	3	A	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.7	
3-Sep-07	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0.4	0.7	
4-Sep-07	0	0	0	0	A	0	0	0	0	0	1	0	0	2	0	0	1	1	0	0	0	0	0	0.3	1.5	
5-Sep-07	0	0	0	0	A	1	0	0	0	0	0	1	0	0	0	0	8	0	0	0	0	1	1	0.7	8.0	
6-Sep-07	1	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3	
7-Sep-07	0	0	0	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.7	
8-Sep-07	0	0	0	0	A	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0.5	1.5	
9-Sep-07	0	0	0	0	A	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0.3	0.7	
10-Sep-07	0	0	0	0	A	0	0	0	0	0	4	1	0	0	1	1	0	0	0	1	0	0	0	0.5	3.7	
11-Sep-07	0	0	0	0	A	0	1	1	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.7	
12-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
13-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0.5	1.1	
14-Sep-07	1	0	0	0	A	0	0	0	0	0	0	1	1	0	0	1	4	0	4	15	3	2	1	1.5	14.7	
15-Sep-07	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	1	0	7	0	1	0	0	1	0.7	7.0	
16-Sep-07	2	0	1	0	A	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0.5	1.9	
17-Sep-07	0	0	1	1	A	0	3	0	0	0	0	0	0	0	1	1	1	3	0	4	0	1	1	0.8	3.9	
18-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
19-Sep-07	0	0	0	0	A	0	0	5	2	2	1	0	0	0	1	2	2	1	0	0	0	0	0	0.9	4.8	
20-Sep-07	0	0	0	0	A	0	0	0	4	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0.5	4.4	
21-Sep-07	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	1.1	
22-Sep-07	0	0	0	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0.4	1.1	
23-Sep-07	0	0	0	1	A	1	4	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	3.6	
24-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
25-Sep-07	0	0	0	0	A	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.2	
26-Sep-07	0	0	0	0	A	1	0	0	1	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0.5	1.2	
27-Sep-07	0	1	1	0	A	0	0	0	1	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0.4	1.1	
28-Sep-07	0	0	0	2	A	0	0	0	2	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0.6	2.4	
29-Sep-07	0	0	0	0	A	0	0	1	2	2	1	1	1	1	0	0	0	1	0	0	0	0	0	0.6	2.2	
30-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0.3	0.7	
Hourly Avg	0.3	0.2	0.3	0.4	N	0.4	0.5	0.6	0.8	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.6	0.7	0.8	0.8	0.7	0.4	0.3	0.3		
Hourly Max	1.9	0.7	1.3	2.7	0.0	1.2	3.6	4.8	4.4	4.7	3.2	3.7	1.3	1.5	1.2	1.3	3.7	8.0	7.0	14.7	4.4	2.6	0.7	0.9		

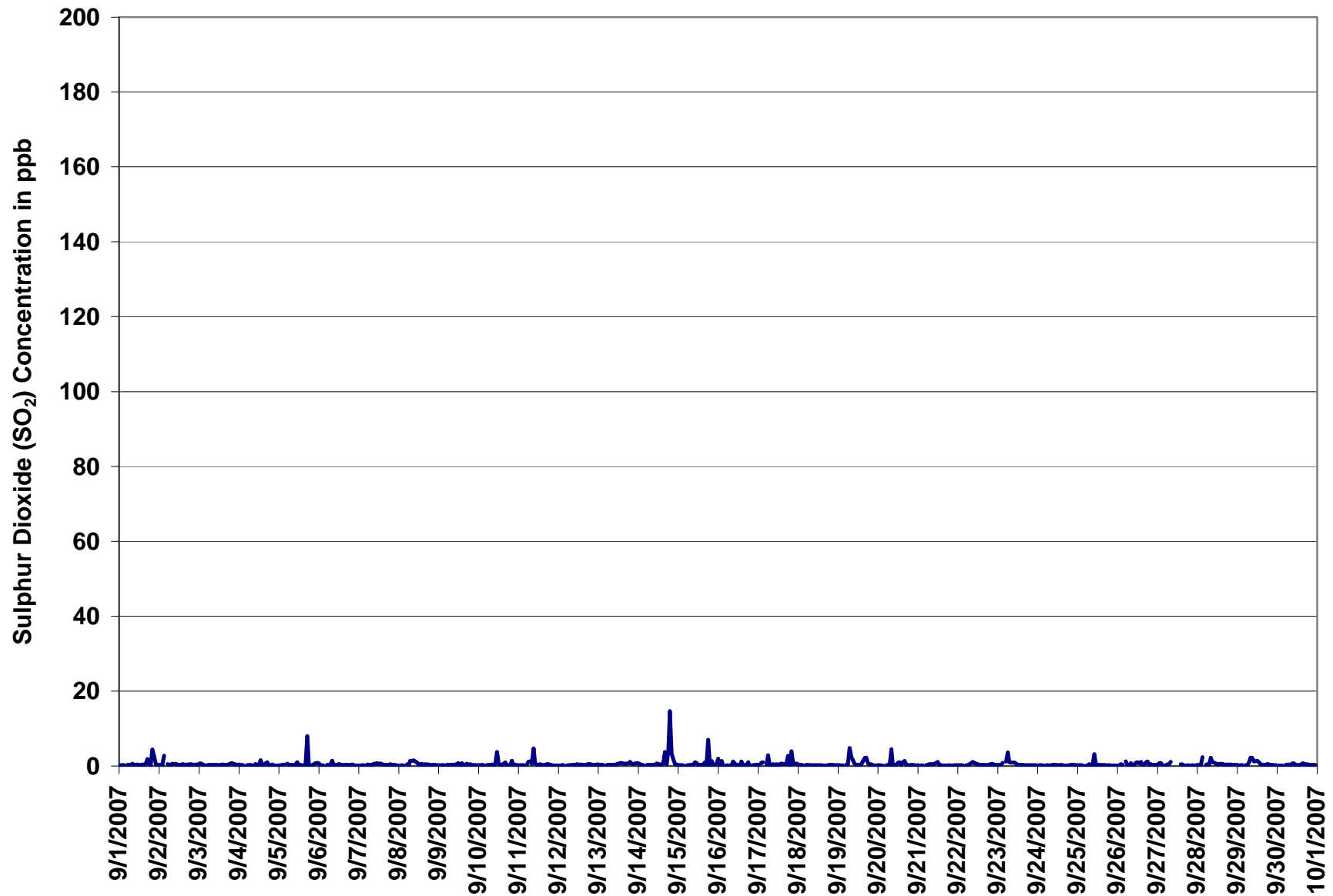
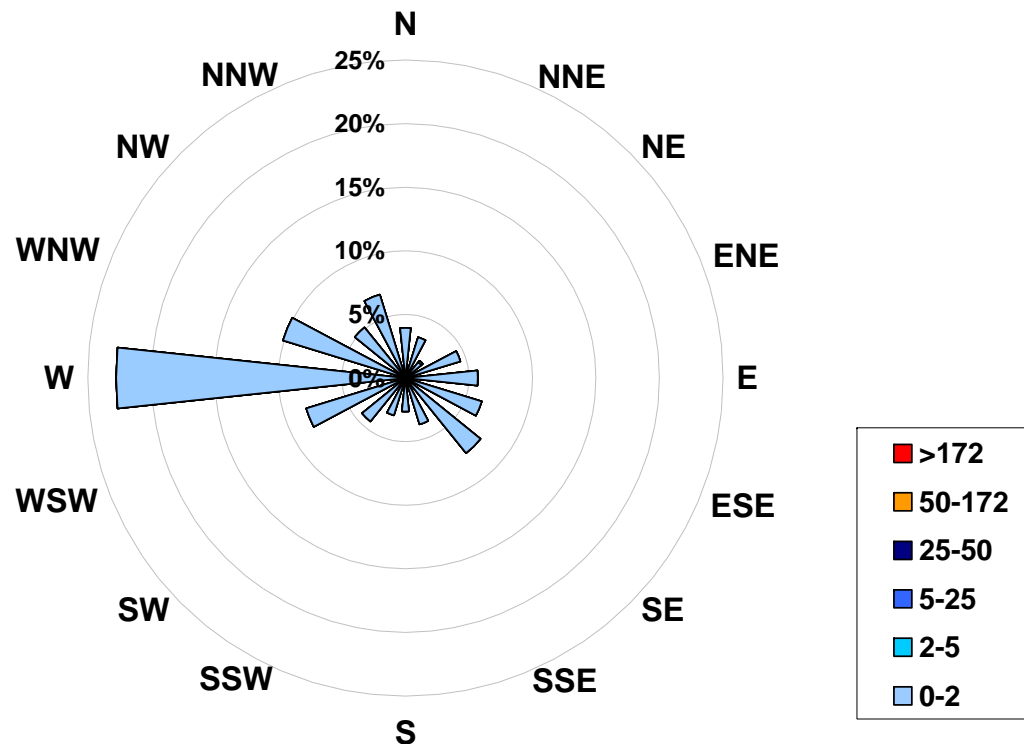


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	684
2	to	5	1
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			685

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

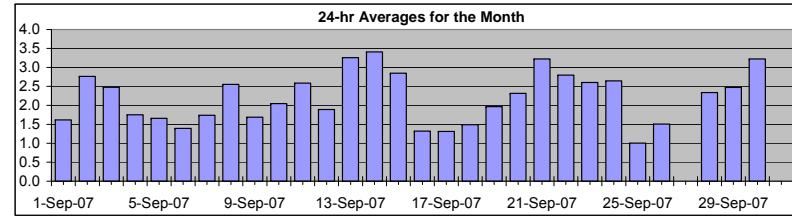
Monitoring Dates: September 1, 2007 to October 1, 2007

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:	12.6 ppb	13-Sep	19:00	20:00
Maximum 24-hr Average:	3.4 ppb	14-Sep		

AIC Time:	30 hrs		Operational Time:	684 hrs					
Calibration Time:	6 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	7.1	5.5	3.0	1.7	1.0	0.9	0.6	2.2 ppb	1.7 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		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	2	2	2	2	A	3	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1.6	2.6	
2-Sep-07	2	4	5	5	A	5	6	4	3	2	2	1	1	1	2	1	1	1	1	5	3	2	4	4	2.8	5.5	
3-Sep-07	2	2	2	2	A	6	5	4	3	3	3	2	1	1	1	1	1	2	3	3	3	3	1	1	2.5	6.3	
4-Sep-07	2	2	2	3	A	5	6	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.7	5.5	
5-Sep-07	2	2	1	3	A	3	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	5.3	
6-Sep-07	2	1	1	1	A	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	3.6	
7-Sep-07	2	1	1	1	A	2	3	4	3	1	1	1	1	1	1	1	1	1	2	2	3	3	2	1	1.7	4.3	
8-Sep-07	1	1	1	2	A	7	6	5	6	5	4	2	1	1	1	1	1	1	1	2	3	2	2	2	2.6	6.7	
9-Sep-07	3	4	2	2	A	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.7	4.0	
10-Sep-07	2	1	1	1	A	2	4	5	4	3	1	8	1	1	1	1	0	1	1	2	2	2	2	1	2.0	8.0	
11-Sep-07	2	2	2	2	A	7	4	8	3	2	1	2	3	3	3	2	2	2	2	2	1	1	2	2	2.6	7.9	
12-Sep-07	1	1	2	3	A	6	3	2	1	2	2	1	1	1	1	1	1	1	2	3	3	2	2	2	1.9	5.6	
13-Sep-07	3	3	3	3	A	5	6	4	3	2	2	2	2	2	1	1	1	2	4	13	3	3	3	5	3.3	12.6	
14-Sep-07	5	4	3	3	A	4	5	4	5	4	3	3	1	1	1	1	1	2	9	4	4	4	3	3	3.4	9.1	
15-Sep-07	3	2	4	3	A	5	7	7	6	6	5	3	1	1	1	1	1	1	2	2	1	1	1	1	2.8	6.9	
16-Sep-07	1	1	1	1	A	2	2	1	1	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	6.5	
17-Sep-07	1	1	1	1	A	1	4	2	1	1	2	0	1	1	1	1	1	1	1	1	1	2	1	2	1.3	4.3	
18-Sep-07	1	1	1	1	A	1	2	2	1	1	1	1	1	1	1	1	1	1	3	3	3	2	3	2	1.5	3.1	
19-Sep-07	1	2	2	2	A	2	4	4	4	2	2	2	1	1	1	1	1	1	2	3	1	2	1	2	2.0	4.5	
20-Sep-07	1	1	1	1	A	2	3	4	2	1	1	1	2	2	1	2	1	1	1	1	4	7	6	6	2.3	7.1	
21-Sep-07	8	3	3	4	A	5	7	8	6	5	3	3	2	1	1	1	1	1	1	2	4	2	2	2	3.2	8.1	
22-Sep-07	3	5	3	4	A	3	3	5	5	2	1	2	1	2	1	2	2	2	2	3	3	3	3	4	2.8	5.3	
23-Sep-07	2	1	1	3	A	3	6	2	3	4	3	2	1	1	1	1	1	1	3	4	6	4	4	5	2.6	5.7	
24-Sep-07	4	7	5	3	A	6	6	4	3	3	3	2	3	3	3	1	1	1	1	1	1	1	1	1	2.6	7.0	
25-Sep-07	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7	
26-Sep-07	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	3	2	4	4	2	3	1.5	3.9	
27-Sep-07	3	3	2	3	A	4	4	6	5	C	C	C	C	C	C	2	2	3	1	2	3	6	3	2	N	6.1	
28-Sep-07	3	2	5	2	A	3	6	5	3	2	1	1	1	1	1	1	1	1	2	2	5	2	1	1	2.3	5.5	
29-Sep-07	1	1	4	3	A	3	3	2	2	3	2	2	2	2	2	2	2	2	3	2	4	6	3	3	2.5	5.7	
30-Sep-07	2	2	3	2	A	5	6	4	6	5	4	2	1	1	2	3	2	1	3	4	4	2	4	4	3.2	6.3	
Hourly Avg	2.3	2.1	2.3	2.3	N	3.6	4.2	3.8	3.0	2.5	1.8	1.7	1.3	1.2	1.2	1.2	1.1	1.3	2.0	2.5	2.6	2.5	2.3	2.3			
Hourly Max	7.7	7.0	5.5	4.8	0.0	7.1	7.2	8.1	6.3	6.5	4.8	8.0	3.0	3.2	2.8	2.7	2.3	2.8	9.1	12.6	5.7	7.1	6.1	5.7			

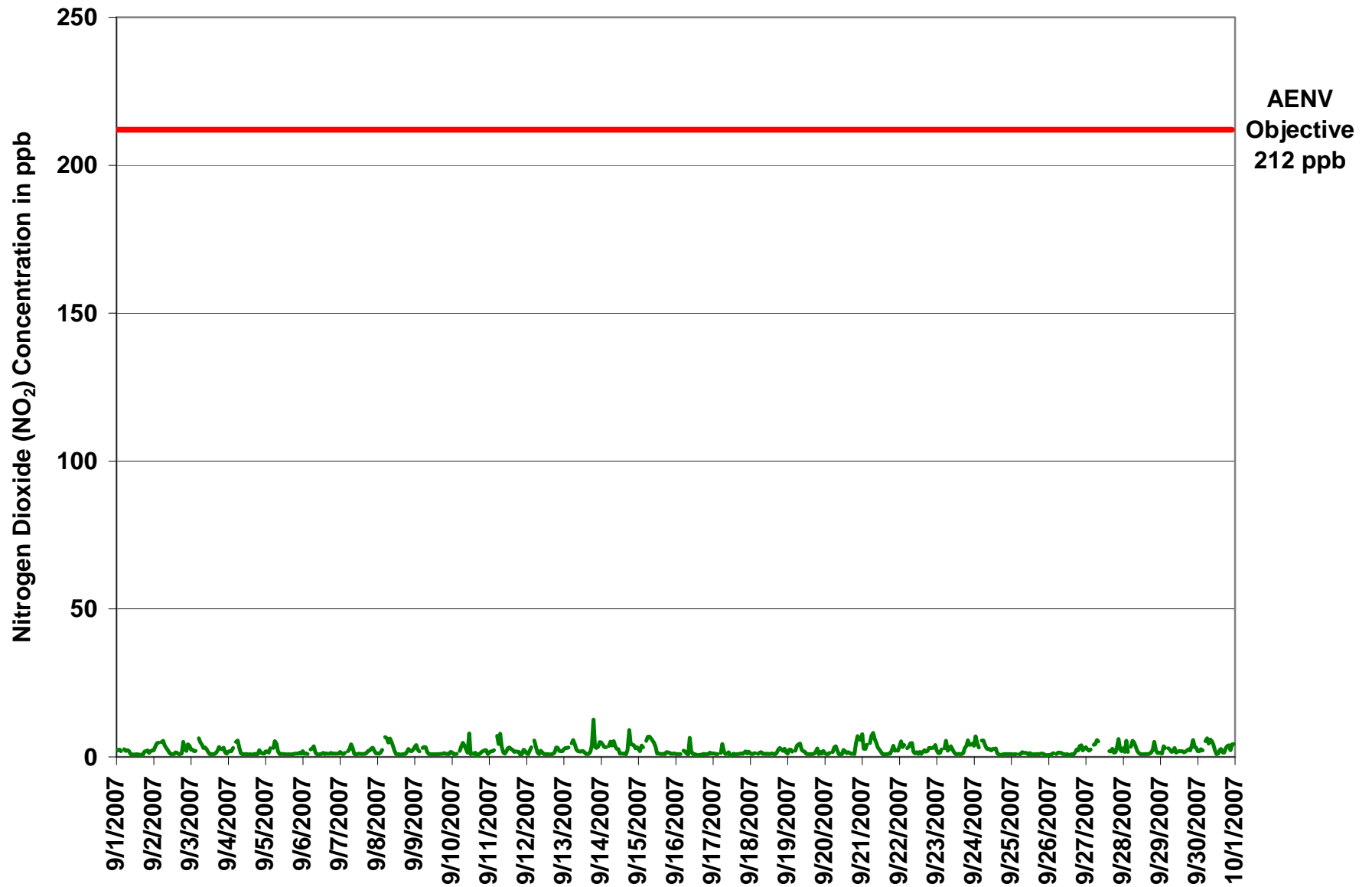


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

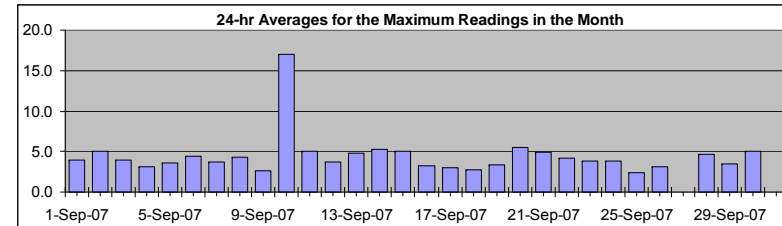
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	280.6	ppb	10-Sep	11:00 12:00
Maximum 24-hr Value:	17.1	ppb	10-Sep	



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.7	10.2	5.1	3.0	2.0	1.0	1.0	4.5 ppb	3.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	3	3	3	3	A	4	3	4	17	1	1	1	1	5	3	4	4	2	11	3	4	2	4	3	3.9	17.4
2-Sep-07	3	5	10	10	A	10	7	6	4	4	3	1	1	2	3	3	1	1	3	12	9	3	9	5	5.1	12.3
3-Sep-07	3	3	3	3	A	11	8	6	6	5	4	2	2	1	1	2	2	4	5	3	3	7	2	2	3.9	11.3
4-Sep-07	4	4	2	4	A	8	8	5	3	1	2	1	2	5	1	2	2	3	1	1	5	4	2	2	3.2	8.2
5-Sep-07	3	6	6	6	A	8	8	8	4	2	3	2	2	2	1	1	2	2	2	2	2	3	5	3	3.6	8.2
6-Sep-07	5	2	3	2	A	4	6	8	28	1	2	2	2	12	2	3	2	2	4	2	4	2	3	2	4.4	27.7
7-Sep-07	4	2	2	3	A	4	4	8	6	3	1	1	7	3	1	2	2	3	3	4	9	5	4	3	3.7	9.2
8-Sep-07	2	3	3	4	A	13	9	9	8	7	5	3	2	1	1	1	1	1	2	6	8	3	3	3	4.3	13.3
9-Sep-07	5	6	3	2	A	4	4	4	3	1	1	1	1	1	1	2	2	2	7	1	2	2	3	2.6	6.6	
10-Sep-07	2	2	1	2	A	3	5	8	6	4	3	281	4	9	3	26	3	2	3	4	4	8	7	2	17.1	280.6
11-Sep-07	3	2	3	5	A	10	8	20	6	3	5	6	7	6	4	5	3	3	3	3	1	2	3	4	5.1	20.4
12-Sep-07	3	1	5	7	A	12	5	3	2	4	3	2	1	5	1	1	1	2	6	6	7	3	2	2	3.7	12.2
13-Sep-07	3	3	4	5	A	5	7	5	4	2	2	4	3	4	4	2	2	3	6	23	5	3	5	5	4.8	22.6
14-Sep-07	5	5	4	4	A	5	7	5	7	7	3	3	2	2	2	2	7	3	15	7	7	6	6	4	5.2	15.4
15-Sep-07	4	2	6	5	A	8	8	7	7	7	15	15	3	5	2	2	2	2	3	3	3	2	2	2	5.0	15.3
16-Sep-07	1	1	1	1	A	3	3	3	5	22	10	2	2	1	1	1	1	1	6	1	2	2	3	2	3.3	22.0
17-Sep-07	2	4	1	1	A	3	8	3	2	6	6	1	4	4	2	1	2	2	3	2	4	3	2	2	3.0	8.2
18-Sep-07	2	2	2	2	A	2	2	3	2	3	2	2	2	2	4	1	1	2	5	5	5	4	5	3	2.7	5.1
19-Sep-07	2	7	5	2	A	4	6	6	6	5	2	2	2	2	1	1	2	3	3	6	2	4	2	3	3.4	7.2
20-Sep-07	2	2	2	3	A	3	8	7	6	1	1	2	14	13	4	3	2	2	2	2	16	10	12	10	5.5	16.3
21-Sep-07	11	8	3	5	A	7	9	11	10	6	4	3	3	1	1	2	1	2	2	4	5	5	3	4	4.9	11.2
22-Sep-07	4	8	6	5	A	3	5	7	8	3	2	2	2	2	2	3	5	3	3	4	3	4	4	7	4.2	8.2
23-Sep-07	4	2	2	4	A	4	8	3	4	4	3	2	1	2	2	1	2	2	5	6	9	6	6	5	3.8	9.2
24-Sep-07	5	8	7	4	A	7	7	6	5	4	4	3	4	4	4	3	1	1	1	2	2	2	1	1	3.8	8.2
25-Sep-07	2	1	1	2	A	2	2	4	4	5	5	1	6	1	1	1	2	2	2	3	3	2	1	1	2.4	5.8
26-Sep-07	1	1	2	3	A	2	4	3	2	2	1	1	2	1	1	2	2	3	7	5	10	9	3	4	3.1	10.1
27-Sep-07	4	3	3	5	A	6	9	10	6	C	C	C	C	C	C	15	4	5	3	3	5	9	3	3	N	14.8
28-Sep-07	3	3	10	10	A	8	10	8	19	3	2	1	1	1	1	1	1	2	3	4	7	4	2	2	4.7	19.4
29-Sep-07	2	2	5	5	A	7	3	2	3	5	2	2	2	2	2	2	2	3	3	3	5	8	4	4	3.4	8.2
30-Sep-07	3	3	5	3	A	11	9	6	7	7	5	4	1	2	4	4	2	2	5	7	9	4	8	5	5.1	11.2
Hourly Avg	3.4	3.5	3.8	4.1	N	6.1	6.4	6.3	6.7	4.4	3.6	12.2	3.0	3.5	2.1	3.3	2.2	2.3	4.1	4.8	5.3	4.4	4.0	3.4		
Hourly Max	11.2	8.2	10.2	10.2	0.0	13.3	10.2	20.4	27.7	22.0	15.3	280.6	13.7	12.6	4.1	25.6	7.1	5.1	15.4	22.6	16.3	10.2	11.8	10.2		

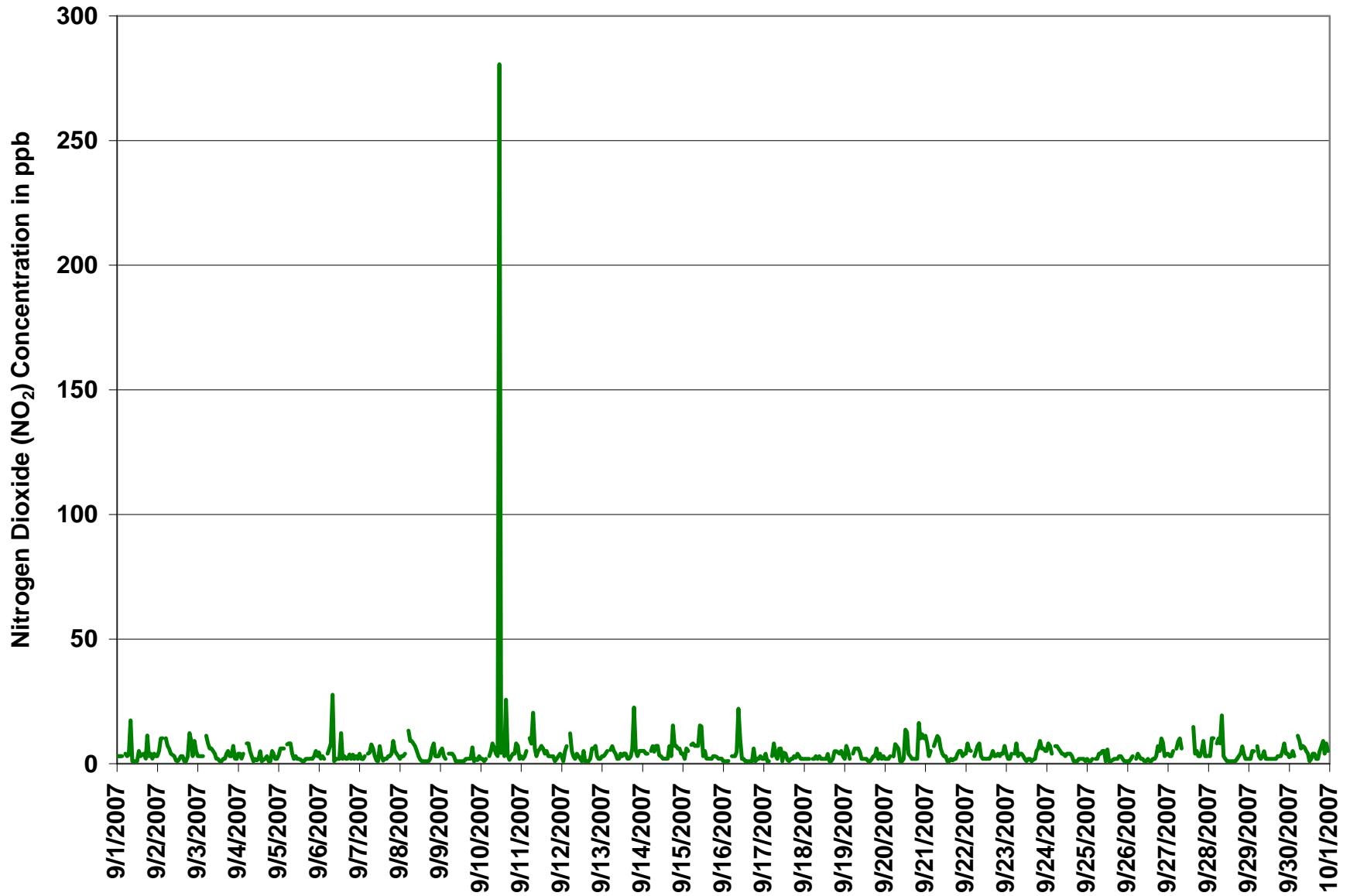
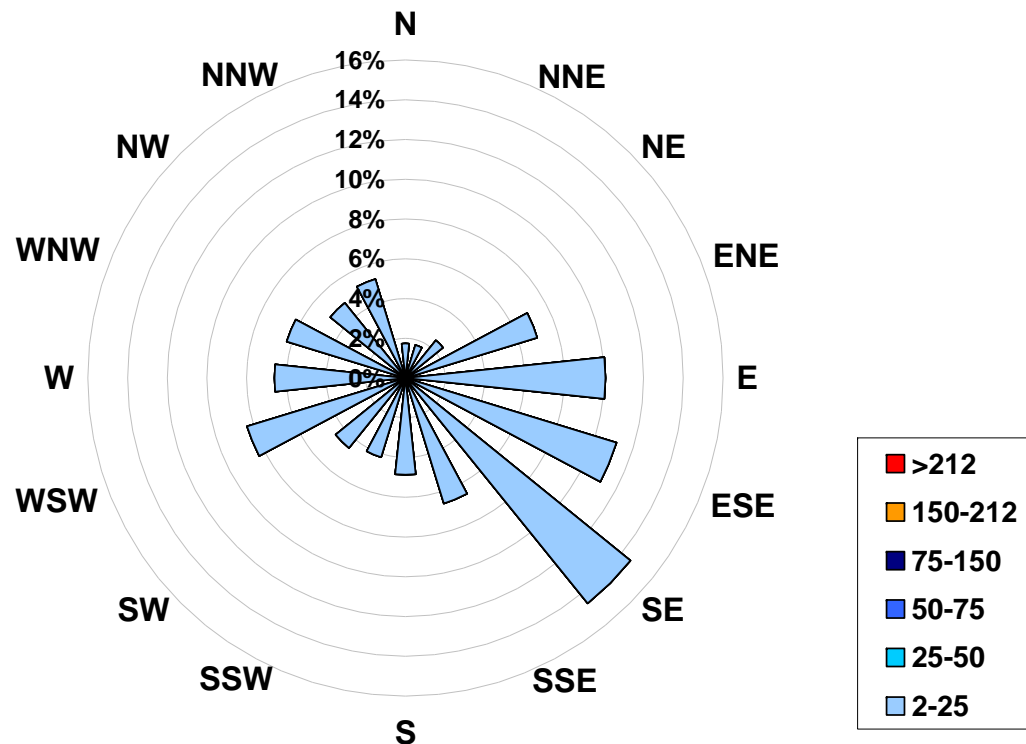


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for September 2007



Calms: 0%

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

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

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

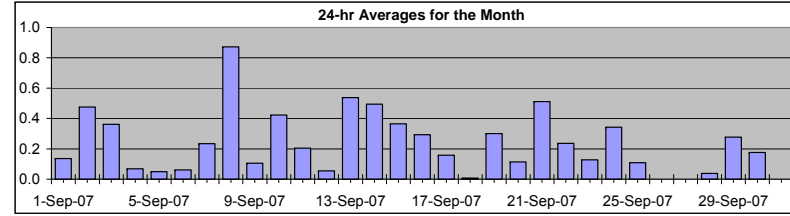
Guideline Limit:

1-hr	na	ppb
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24-hr	na	ppb
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Maximum 1-hr Average:	5.9	ppb	16-Sep	9:00 10:00
Maximum 24-hr Average:	0.9	ppb	8-Sep	

AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	1.5	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
2-Sep-07	0	0	0	0	A	1	1	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.2
3-Sep-07	0	0	0	0	A	1	0	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.1
4-Sep-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
5-Sep-07	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7
6-Sep-07	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
7-Sep-07	0	0	0	0	A	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.5
8-Sep-07	0	0	0	0	A	1	2	2	6	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	5.8
9-Sep-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.1	0.9
10-Sep-07	0	0	0	0	A	0	0	2	3	2	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.4	3.2
11-Sep-07	0	0	0	0	A	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.2
12-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
13-Sep-07	0	0	0	0	A	0	0	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.0
14-Sep-07	0	0	0	0	A	0	0	1	3	2	1	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0.5	3.1
15-Sep-07	0	0	0	0	A	0	0	0	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.8
16-Sep-07	0	0	0	0	A	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	5.9
17-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2
18-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
19-Sep-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
20-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1	1.5
21-Sep-07	0	0	0	0	A	0	1	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.6
22-Sep-07	0	0	0	0	A	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
23-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
24-Sep-07	0	0	0	0	A	0	0	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
25-Sep-07	0	0	0	0	A	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
26-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
27-Sep-07	0	0	0	0	A	0	0	0	0	C	C	C	C	C	C	1	0	0	0	0	0	0	0	0	0	N	0.6
28-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5
29-Sep-07	0	0	0	0	A	0	0	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1
30-Sep-07	0	0	0	0	A	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
Hourly Avg	0.0	0.0	0.0	0.0	N	0.1	0.2	0.9	1.2	1.2	0.8	0.4	0.3	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.2	0.0	0.0	0.0	0.0	1.4	2.1	4.2	5.8	5.9	3.4	1.6	1.5	1.0	0.5	0.6	3.1	0.1	0.3	0.8	0.2	0.0	0.0	0.0	0.0		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

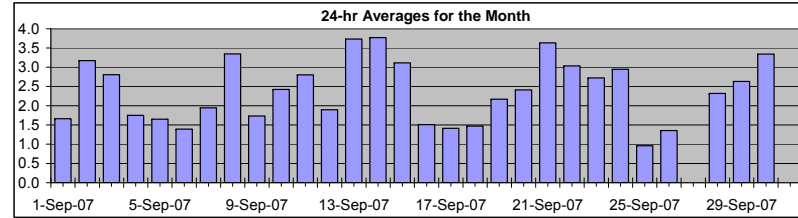
Monitoring Dates: September 1, 2007 to October 1, 2007

Guideline Limit: Alberta Environment:

1-hr	na	ppb
24-hr	na	ppb

Summary
 Maximum 1-hr Average: 12.9 ppb 13-Sep 19:00 20:00
 Maximum 24-hr Average: 3.8 ppb 14-Sep

AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.5	6.3	3.1	1.8	1.0	0.7	0.4	2.4 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																								24-hour Average	Daily Maximum	
	Hour Start	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
1-Sep-07	2	2	2	2	A	3	2	3	3	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1.7	3.4
2-Sep-07	2	3	4	5	A	6	6	8	6	4	2	1	1	1	2	1	1	1	1	1	5	3	2	4	4	3.2	8.2
3-Sep-07	2	2	2	2	A	7	5	5	4	6	5	2	1	1	1	1	1	2	3	3	2	3	1	1	2.8	7.1	
4-Sep-07	2	2	2	3	A	5	6	4	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.8	6.0	
5-Sep-07	2	2	1	3	A	3	6	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.6	5.6	
6-Sep-07	2	1	1	1	A	2	3	4	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.4	4.2	
7-Sep-07	1	1	1	1	A	2	3	7	5	2	1	1	1	1	1	1	1	1	2	2	3	3	2	1	1.9	6.8	
8-Sep-07	1	1	1	2	A	8	8	7	12	9	7	4	1	1	1	0	1	1	1	2	3	2	2	2	3.3	12.1	
9-Sep-07	3	4	2	2	A	3	3	4	3	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1.7	4.1	
10-Sep-07	1	1	1	1	A	2	4	6	7	5	3	8	1	2	1	1	1	1	1	2	2	2	2	1	2.4	7.9	
11-Sep-07	1	2	2	2	A	7	4	11	4	2	1	2	3	3	3	3	2	2	2	2	0	1	2	2	2.8	11.2	
12-Sep-07	1	1	2	3	A	6	3	2	1	3	2	1	1	1	1	1	1	1	1	3	3	2	2	2	1.9	5.5	
13-Sep-07	2	3	3	3	A	5	6	7	5	4	3	3	3	2	1	1	1	2	4	13	3	3	3	5	3.7	12.9	
14-Sep-07	4	4	3	3	A	4	5	5	8	6	4	4	1	1	1	1	3	2	9	4	4	4	3	3	3.8	9.3	
15-Sep-07	2	2	4	3	A	5	7	7	8	8	8	5	1	1	1	1	1	1	1	1	1	1	1	1	3.1	8.0	
16-Sep-07	1	1	1	1	A	2	2	1	1	12	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1.5	12.4	
17-Sep-07	1	1	1	1	A	1	4	2	1	2	3	0	1	2	1	1	1	1	1	1	1	2	1	1	1.4	4.4	
18-Sep-07	1	1	1	1	A	1	1	2	1	2	1	1	1	1	1	1	1	1	2	3	2	2	2	1	1.5	2.8	
19-Sep-07	1	2	2	1	A	2	4	5	6	4	3	3	2	2	1	1	1	1	2	3	1	2	1	2	2.2	5.6	
20-Sep-07	1	1	1	1	A	2	3	4	2	1	1	1	4	3	2	2	1	1	1	1	4	7	6	6	2.4	6.9	
21-Sep-07	8	3	3	4	A	5	8	11	8	7	5	4	2	1	1	1	1	1	2	3	2	2	2	2	3.6	10.7	
22-Sep-07	3	5	3	4	A	3	3	5	6	2	2	2	2	3	2	2	3	2	2	3	3	3	4	4	3.0	6.2	
23-Sep-07	2	1	1	2	A	3	5	2	3	4	4	2	1	1	2	1	1	1	3	4	6	4	4	4	2.7	5.6	
24-Sep-07	4	7	5	3	A	6	6	5	5	4	5	4	3	3	3	1	1	0	1	1	1	1	1	1	2.9	6.8	
25-Sep-07	1	0	1	1	A	1	1	2	2	2	2	1	2	1	1	1	1	1	1	1	1	0	0	0	1.0	2.3	
26-Sep-07	0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	2	3	1.4	3.7	
27-Sep-07	3	2	2	2	A	4	4	6	6	C	C	C	C	C	C	3	2	3	1	2	3	6	2	2	N	5.9	
28-Sep-07	3	2	5	2	A	3	5	5	4	2	2	1	1	1	1	1	1	1	1	2	5	2	1	1	2.3	5.4	
29-Sep-07	1	1	3	3	A	3	2	2	2	5	3	3	3	2	2	2	2	2	2	2	3	6	3	3	2.6	5.5	
30-Sep-07	2	2	2	2	A	6	6	5	7	6	5	3	1	2	3	3	2	1	3	3	4	2	4	4	3.3	6.7	
Hourly Avg	2.1	2.0	2.1	2.2	N	3.6	4.3	4.7	4.3	3.7	2.7	2.1	1.5	1.5	1.2	1.2	1.2	1.3	2.0	2.5	2.5	2.4	2.1	2.1			
Hourly Max	7.8	6.8	5.3	4.7	0.0	8.2	8.4	11.2	12.1	12.4	7.5	7.9	3.9	3.4	3.3	3.1	2.8	2.7	9.3	12.9	5.6	6.9	6.0	5.6			

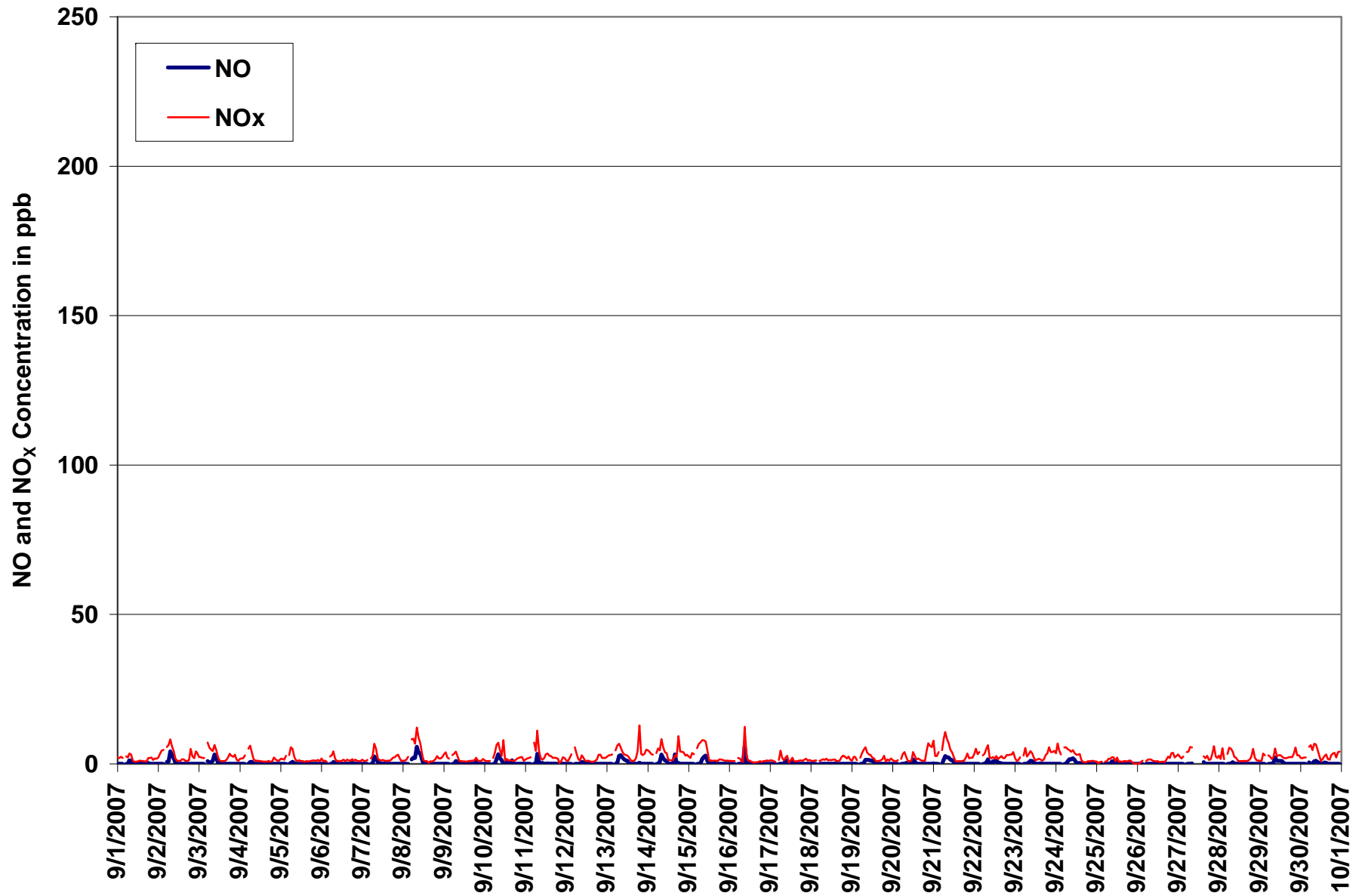


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

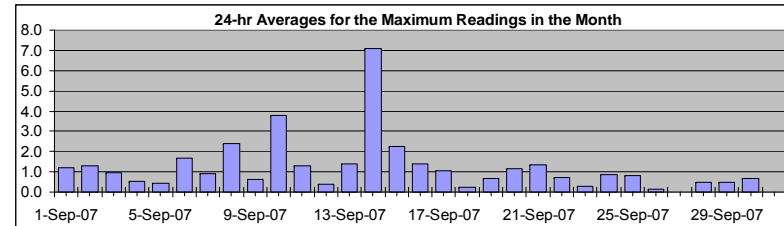
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	128.4	ppb	14-Sep	16:00 17:00
Maximum 24-hr Value:	7.1	ppb	14-Sep	



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.1	6.0	1.0	0.0	0.0	0.0	0.0	1.2 ppb	0.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	0	0	0	0	A	0	1	3	8	1	0	0	1	3	2	2	2	1	4	0	0	0	0	0	1.2	7.7
2-Sep-07	0	0	1	0	A	4	6	8	5	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1.3	8.0
3-Sep-07	0	0	0	0	A	6	1	2	2	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	1.0	6.0
4-Sep-07	0	0	0	0	A	1	1	2	1	1	1	0	1	3	0	0	0	1	0	0	0	0	0	0	0.5	3.0
5-Sep-07	0	0	0	0	A	0	1	2	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0.4	2.0
6-Sep-07	0	0	0	0	A	0	1	6	12	0	1	1	1	1	1	1	1	0	5	0	8	0	0	0	1.7	12.1
7-Sep-07	0	0	0	0	A	0	1	4	4	4	2	1	3	1	0	1	0	0	0	0	0	0	0	0	0.9	4.0
8-Sep-07	0	0	0	0	A	11	7	7	10	7	6	5	1	0	0	0	0	0	0	0	1	0	0	0	2.4	11.0
9-Sep-07	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	1	10	0	0	0	0	0.6	10.5
10-Sep-07	0	0	0	0	A	0	1	3	7	4	14	1	2	7	1	0	44	0	1	1	0	0	0	0	3.8	44.4
11-Sep-07	0	0	0	0	A	3	0	12	2	1	8	0	1	1	0	1	0	1	0	0	0	0	0	0	1.3	11.5
12-Sep-07	0	0	0	0	A	0	0	0	1	2	1	1	1	2	0	0	0	0	0	0	1	0	0	0	0.4	2.0
13-Sep-07	0	0	0	0	A	0	3	4	4	3	2	8	1	2	1	0	0	0	1	2	0	0	0	0	1.4	8.1
14-Sep-07	0	0	0	0	A	0	1	2	6	5	8	2	0	1	0	9	128	0	1	0	0	0	0	0	7.1	128.4
15-Sep-07	0	0	0	0	A	0	0	1	3	4	28	6	0	4	1	4	0	0	0	0	0	0	0	0	2.2	28.4
16-Sep-07	0	0	0	0	A	0	0	0	1	21	8	0	0	0	0	0	0	0	2	0	0	0	0	0	1.4	20.9
17-Sep-07	0	0	0	0	A	0	0	1	1	6	5	0	4	5	2	0	0	1	0	0	0	0	0	0	1.1	6.4
18-Sep-07	0	0	0	0	A	0	0	1	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	1.0
19-Sep-07	0	1	0	0	A	0	0	1	3	2	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0.7	3.0
20-Sep-07	0	0	0	0	A	0	1	1	1	0	0	0	10	8	2	0	0	0	0	0	1	0	2	1	1.2	10.0
21-Sep-07	2	0	0	0	A	0	5	9	7	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1.4	9.0
22-Sep-07	0	0	0	0	A	0	0	1	4	1	1	3	1	2	1	1	1	0	0	0	0	0	0	1	0.7	4.4
23-Sep-07	0	0	0	0	A	0	0	0	1	1	1	1	0	0	0	1	0	1	0	0	1	0	0	0	0.3	1.0
24-Sep-07	0	0	0	0	A	0	1	1	5	3	4	2	1	1	1	1	0	0	0	0	0	0	0	0	0.9	5.0
25-Sep-07	0	0	0	0	A	0	0	1	2	7	4	1	4	0	0	0	0	0	0	0	0	0	0	0	0.8	7.0
26-Sep-07	0	0	0	0	A	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0.1	2.0
27-Sep-07	0	0	0	0	A	0	0	0	1	C	C	C	C	C	C	10	1	0	0	0	0	0	0	0	N	10.0
28-Sep-07	0	0	0	0	A	0	0	1	7	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	7.0
29-Sep-07	0	0	0	0	A	0	0	0	2	3	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0.5	3.0
30-Sep-07	0	0	0	0	A	6	1	1	2	2	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0.7	5.9
Hourly Avg	0.1	0.0	0.0	0.0	N	1.0	1.1	2.5	3.4	3.2	3.7	1.4	1.3	1.6	0.5	1.1	6.0	0.2	0.5	0.5	0.4	0.0	0.1	0.1		
Hourly Max	2.0	1.0	0.9	0.0	0.0	11.0	7.1	11.5	12.1	20.9	28.4	8.1	10.0	7.6	2.0	10.0	128.4	1.0	5.0	10.5	8.0	0.0	2.0	1.0		

Station: Beaverlodge
 Station Owner: PASZA

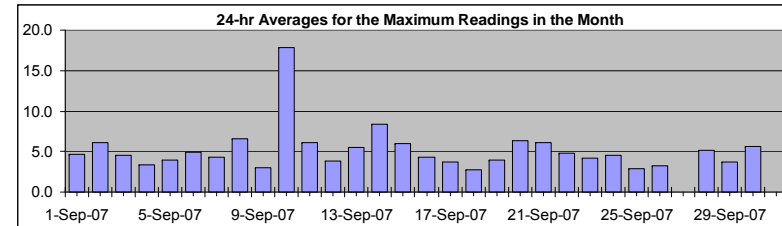
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	277.7	ppb	10-Sep	11:00 12:00
Maximum 24-hr Value:	17.9	ppb	10-Sep	



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	24.5	12.1	6.0	3.0	2.0	1.0	0.9	5.2 ppb	3.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	3	3	3	2	A	4	4	6	22	2	1	1	2	6	4	5	6	3	14	4	4	2	3	3	4.7	22.2
2-Sep-07	3	5	10	10	A	14	12	13	8	6	5	2	1	2	3	3	1	1	3	12	9	3	9	5	6.1	14.1
3-Sep-07	3	3	2	3	A	17	8	7	7	11	8	3	2	1	1	2	2	4	5	3	3	7	2	2	4.6	17.1
4-Sep-07	4	3	2	4	A	8	9	6	4	2	3	2	2	5	1	2	2	3	1	2	5	4	2	2	3.4	9.0
5-Sep-07	3	6	6	6	A	8	9	10	5	2	4	2	3	2	1	2	2	2	3	3	2	3	5	3	4.0	10.0
6-Sep-07	4	1	3	2	A	4	7	10	30	1	2	2	2	12	2	4	3	3	4	2	10	2	3	2	5.0	29.6
7-Sep-07	4	2	1	3	A	4	5	12	10	4	2	2	8	4	2	3	2	3	3	4	9	5	4	3	4.3	11.8
8-Sep-07	2	3	3	4	A	24	16	16	18	15	12	8	2	1	1	1	1	1	2	6	8	3	2	3	6.6	24.2
9-Sep-07	5	6	3	2	A	4	4	5	4	2	1	1	1	1	1	2	2	2	3	11	2	2	1	3	2.9	11.4
10-Sep-07	2	1	1	3	A	3	6	10	13	6	4	278	6	10	4	26	5	2	4	5	4	8	8	2	17.9	277.7
11-Sep-07	2	2	3	5	A	13	8	31	7	4	13	6	8	7	4	6	3	4	3	3	1	2	3	4	6.2	31.2
12-Sep-07	2	1	5	7	A	12	5	3	3	5	3	2	1	7	1	1	1	2	6	6	7	3	2	2	3.8	12.1
13-Sep-07	3	3	3	5	A	6	9	8	8	5	4	5	4	6	5	2	2	3	6	24	5	3	4	5	5.6	24.3
14-Sep-07	5	5	4	4	A	5	7	6	13	12	7	5	2	2	2	9	53	4	16	8	7	6	6	4	8.4	52.8
15-Sep-07	4	2	5	5	A	7	8	8	10	10	22	20	4	9	3	3	2	2	3	3	2	2	2	2	6.0	22.2
16-Sep-07	1	1	1	1	A	3	3	3	5	35	17	2	2	1	1	1	2	1	8	1	2	2	3	2	4.3	35.1
17-Sep-07	2	5	1	1	A	3	9	4	3	10	9	1	6	8	2	2	2	3	3	3	4	3	2	2	3.7	10.0
18-Sep-07	2	1	2	2	A	2	2	3	2	4	2	2	2	2	5	2	1	2	5	5	4	3	5	3	2.7	5.0
19-Sep-07	2	7	5	2	A	4	6	7	9	7	4	4	3	3	1	1	2	3	3	6	2	4	2	3	3.9	9.0
20-Sep-07	2	2	2	3	A	3	8	8	7	2	2	2	18	20	4	4	3	2	2	2	17	10	12	11	6.3	20.1
21-Sep-07	12	8	3	5	A	7	14	19	16	9	6	5	3	1	1	2	2	3	2	4	5	5	3	4	6.1	19.1
22-Sep-07	4	8	5	5	A	3	5	9	12	3	3	5	2	4	3	4	6	3	3	4	3	4	4	7	4.8	12.1
23-Sep-07	4	2	2	4	A	4	8	3	5	5	4	3	2	2	2	2	2	2	6	6	10	6	6	5	4.1	10.1
24-Sep-07	5	8	7	4	A	7	7	7	10	7	7	5	5	4	3	1	1	1	1	2	2	2	1	1	4.5	9.8
25-Sep-07	1	1	1	2	A	2	2	5	6	10	8	2	8	1	2	2	2	2	2	3	3	2	1	1	2.9	9.7
26-Sep-07	1	1	2	3	A	2	4	3	2	2	2	2	3	2	2	2	2	4	7	4	10	8	3	3	3.2	9.9
27-Sep-07	4	3	3	5	A	5	9	11	7	C	C	C	C	C	C	21	5	5	3	3	5	9	3	2	N	21.3
28-Sep-07	3	3	10	10	A	8	10	9	26	4	3	2	1	1	1	2	2	2	3	4	6	4	2	2	5.1	25.8
29-Sep-07	2	2	5	5	A	7	3	2	5	8	3	3	3	3	2	2	2	3	3	3	5	8	4	3	3.7	8.0
30-Sep-07	2	3	5	3	A	15	10	7	9	9	6	6	2	2	4	4	2	2	5	7	9	4	8	5	5.6	15.0
Hourly Avg	3.2	3.4	3.6	4.0	N	7.0	7.3	8.4	9.5	7.0	5.7	13.2	3.7	4.5	2.4	4.2	4.1	2.6	4.4	5.1	5.5	4.3	3.8	3.3		
Hourly Max	12.1	8.1	10.1	10.1	0.0	24.2	16.1	31.2	29.6	35.1	22.2	277.7	17.8	20.1	5.0	26.3	52.8	5.0	16.2	24.3	17.1	10.1	11.7	11.1		

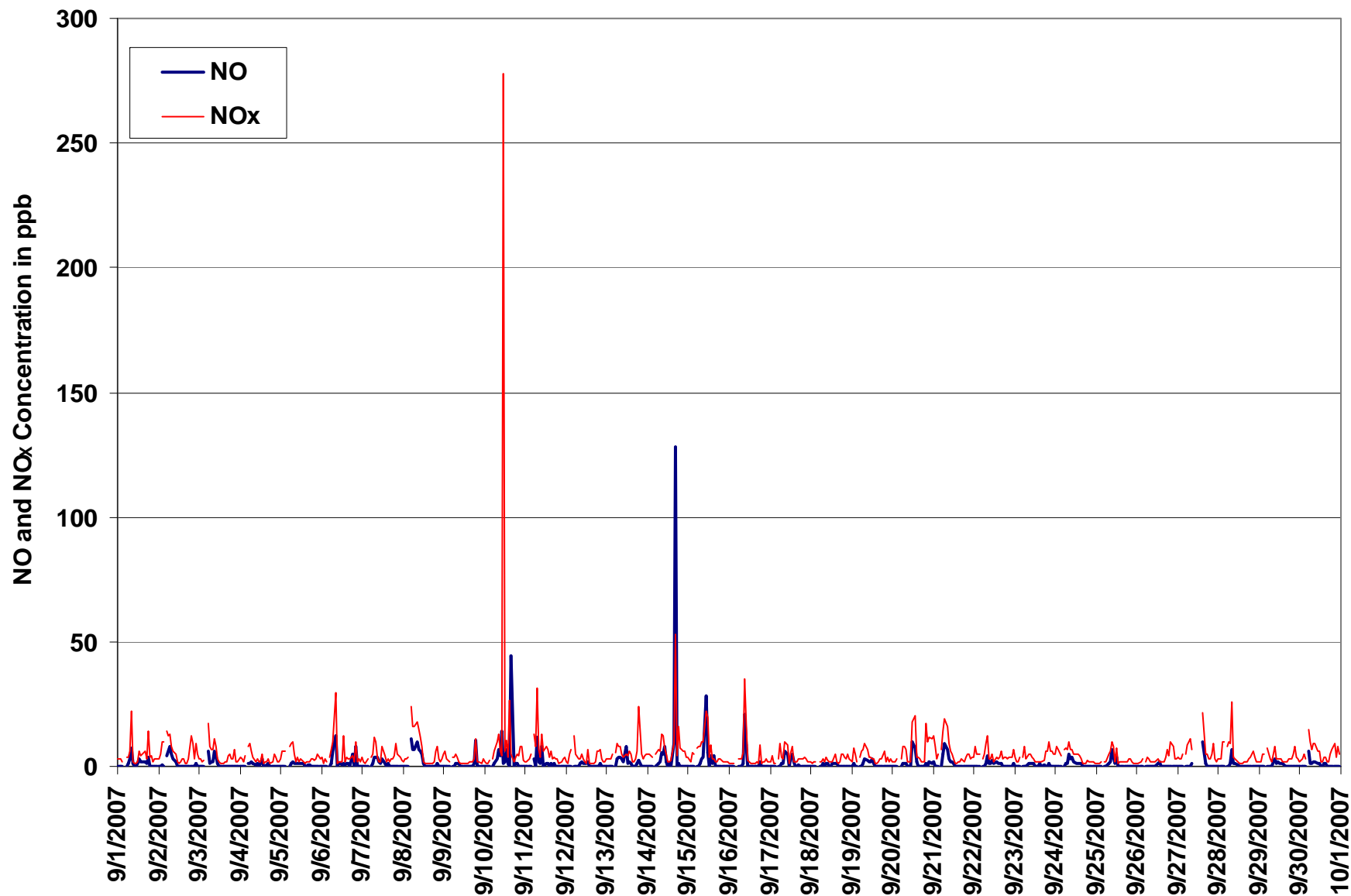


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Ozone (O₃)

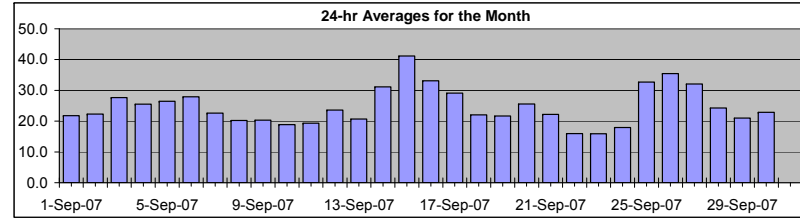
Monitoring Dates: September 1, 2007 to October 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	61.3 ppb	15-Sep	13:00 14:00	
Maximum 24-hr Average:	41.2 ppb	15-Sep		

AIC Time:	30 hrs		Operational Time:	690 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	49.8	38.9	30.3	24.7	18.2	10.4	5.5	24.7 ppb	24.7 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	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-Sep-07	13	12	11	11	A	11	14	12	19	23	28	29	29	30	30	30	30	29	27	24	24	24	19	20	21.8	30.1	
2-Sep-07	17	17	16	15	A	6	5	3	7	14	26	29	32	35	34	37	36	34	29	22	26	30	20	22	22.3	37.4	
3-Sep-07	25	25	23	17	A	9	9	12	16	14	22	33	40	40	42	44	41	37	32	29	32	29	34	30	27.7	44.0	
4-Sep-07	26	18	17	13	A	12	9	14	24	30	33	36	37	36	34	32	32	31	31	28	25	24	22	22	25.5	36.5	
5-Sep-07	20	19	22	24	A	24	19	19	22	25	25	25	27	30	30	29	31	31	29	27	28	32	35	37	26.4	36.5	
6-Sep-07	31	28	29	30	A	26	24	22	25	30	32	33	33	35	34	30	29	29	25	25	23	24	23	23	27.9	34.7	
7-Sep-07	21	20	20	18	A	16	15	10	18	22	24	27	29	30	30	29	30	27	25	22	21	19	21	27	22.6	30.4	
8-Sep-07	23	25	19	17	A	7	4	6	5	9	10	20	28	30	31	32	31	31	28	27	21	23	22	16	20.2	31.6	
9-Sep-07	13	12	15	16	A	14	14	14	18	23	27	29	29	29	27	27	25	23	20	20	19	19	18	16	20.3	29.2	
10-Sep-07	15	15	15	14	A	13	12	11	11	15	18	22	25	25	27	26	24	24	23	21	19	19	20	21	18.8	26.7	
11-Sep-07	20	20	18	18	A	15	17	12	17	23	33	30	25	24	23	19	18	14	14	15	20	19	16	16	19.3	32.7	
12-Sep-07	17	18	17	14	A	14	17	20	22	20	20	23	26	28	31	30	32	33	33	29	24	24	25	24	23.6	33.1	
13-Sep-07	20	15	12	10	A	6	5	7	9	11	15	20	23	30	33	35	36	36	29	17	27	27	27	24	20.7	36.3	
14-Sep-07	21	19	17	15	A	15	14	17	18	24	30	32	45	47	48	49	50	45	36	38	35	37	35	29	31.1	49.8	
15-Sep-07	30	30	30	31	A	26	27	27	25	26	30	48	59	61	58	57	55	54	50	48	44	47	44	41	41.2	61.3	
16-Sep-07	41	37	37	33	A	29	31	38	38	33	33	31	30	30	30	31	35	35	34	35	33	30	29	27	33.1	40.9	
17-Sep-07	26	27	28	31	A	30	24	26	30	33	35	36	35	33	32	31	30	29	29	29	27	24	25	22	29.1	35.6	
18-Sep-07	21	22	23	21	A	18	17	16	17	18	19	20	23	24	24	23	25	26	25	24	25	24	24	28	22.0	27.9	
19-Sep-07	23	16	14	16	A	22	18	15	17	19	18	19	21	23	26	28	28	26	24	23	31	26	24	21	21.7	31.1	
20-Sep-07	22	25	27	28	A	24	21	21	23	28	32	34	34	33	33	30	32	29	25	26	20	14	16	13	25.6	34.3	
21-Sep-07	8	13	12	11	A	10	5	3	8	11	15	20	30	40	40	39	38	38	35	28	26	26	25	25	22.2	40.3	
22-Sep-07	23	18	18	16	A	18	16	16	14	20	21	16	16	16	18	18	15	17	17	14	12	10	10	7	15.9	22.8	
23-Sep-07	11	12	15	15	A	14	12	12	13	14	15	18	22	20	20	21	22	22	19	16	13	15	13	9	15.9	21.9	
24-Sep-07	9	6	7	8	A	7	7	9	10	15	14	16	20	22	22	27	29	29	31	28	26	24	24	25	17.9	30.9	
25-Sep-07	25	27	27	27	A	31	32	28	27	29	32	33	33	35	36	35	35	35	36	34	37	38	38	39	32.7	38.9	
26-Sep-07	39	38	37	35	A	35	34	36	34	36	37	38	38	38	38	38	39	38	35	32	32	29	31	30	35.4	39.0	
27-Sep-07	30	32	31	30	A	26	28	24	26	25	24	24	28	29	34	40	40	40	42	44	40	31	34	35	32.0	43.9	
28-Sep-07	33	32	28	32	A	28	26	27	28	29	29	21	21	21	24	26	24	22	20	18	14	18	19	19	24.2	32.8	
29-Sep-07	19	19	16	16	A	14	14	16	17	17	19	20	23	24	26	27	29	26	25	26	22	20	25	24	21.0	28.7	
30-Sep-07	26	25	23	23	A	12	12	14	9	13	19	26	32	32	31	31	32	29	26	25	23	25	18	18	22.8	32.5	
Hourly Avg	22.2	21.5	20.8	20.2	N	17.8	16.7	16.9	18.9	21.6	24.4	27.0	29.9	31.0	31.4	31.7	31.8	30.6	28.5	26.4	25.6	25.0	24.5	23.6			
Hourly Max	40.9	38.3	37.3	35.1	0.0	35.4	34.3	38.0	38.3	36.0	36.9	47.8	59.5	61.3	57.6	57.4	54.7	53.6	50.5	48.0	44.1	46.6	43.8	40.7			

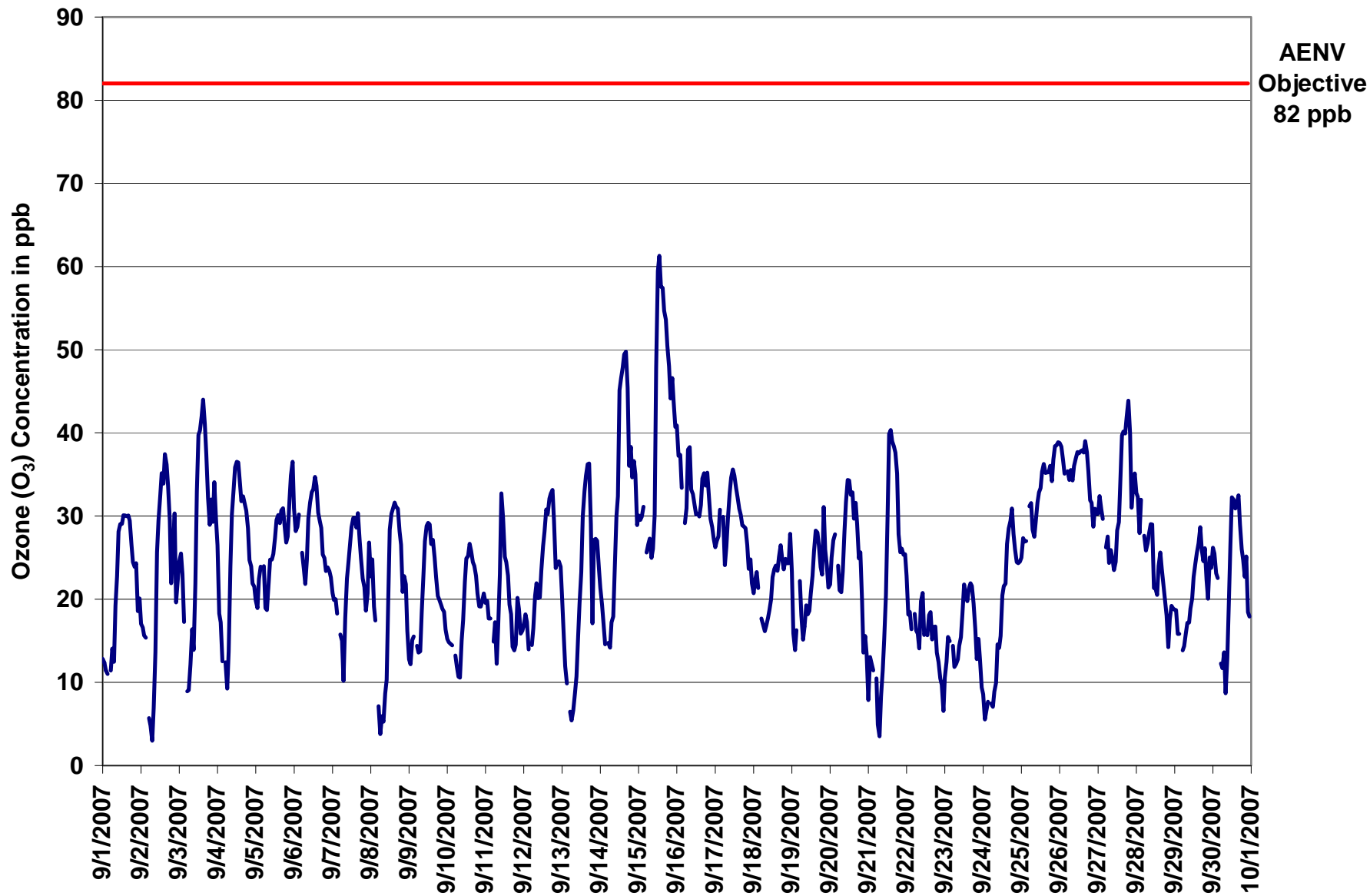


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

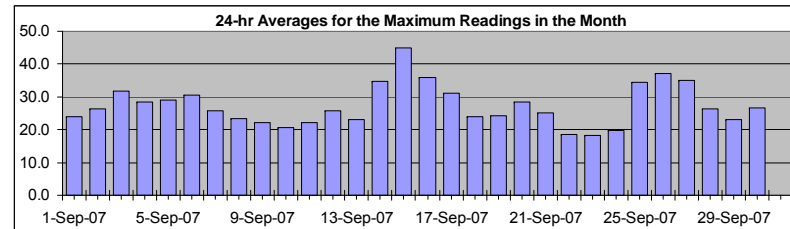
Ozone (O₃)

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

Summary

Maximum 1-hr Value:	64.1	ppb	15-Sep	12:00 13:00
Maximum 24-hr Value:	44.8	ppb	15-Sep	

AIC Time:	30 hrs	Operational Time:	690 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	53.4	41.7	32.7	27.5	20.7	13.2	8.0	27.4 ppb	27.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 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-Sep-07	15	14	13	13	A	13	16	18	22	26	29	30	30	32	31	31	32	31	30	27	28	26	23	22	24.0	31.6
2-Sep-07	20	18	18	19	A	18	7	5	12	22	29	31	35	37	38	41	40	37	33	26	32	33	31	27	26.4	41.2
3-Sep-07	28	28	26	21	A	17	17	17	21	17	29	38	45	42	45	46	45	41	36	31	34	37	37	33	31.9	46.5
4-Sep-07	31	26	21	16	A	17	12	19	27	32	37	38	39	38	37	34	34	33	32	30	27	25	24	23	28.4	38.8
5-Sep-07	22	23	26	29	A	27	22	22	25	27	26	27	29	31	34	31	33	32	32	29	30	39	39	38	29.2	38.9
6-Sep-07	37	33	32	33	A	27	27	27	29	32	33	35	35	36	36	33	31	30	28	26	25	25	25	25	30.5	37.4
7-Sep-07	23	22	22	21	A	18	17	13	22	24	26	28	30	31	31	31	32	30	29	27	30	23	30	31	25.7	31.9
8-Sep-07	25	28	27	21	A	15	9	10	8	11	12	27	30	32	32	33	32	32	31	29	26	23	23	22	23.5	32.6
9-Sep-07	15	16	16	17	A	15	16	17	21	26	29	30	30	30	30	29	27	25	21	21	20	19	19	19	22.2	30.4
10-Sep-07	16	15	15	15	A	17	14	14	14	17	20	26	26	26	27	27	26	25	24	23	21	21	22	22	20.7	27.5
11-Sep-07	21	21	20	19	A	20	21	20	19	31	35	32	27	27	25	22	21	15	15	19	22	20	18	18	22.2	34.9
12-Sep-07	18	19	20	18	A	18	19	23	23	23	22	26	28	31	32	33	34	34	35	33	30	25	25	25	25.8	34.9
13-Sep-07	22	18	15	11	A	7	6	9	10	13	19	22	26	32	34	37	38	38	32	28	29	28	28	26	23.1	38.5
14-Sep-07	22	21	18	16	A	16	17	18	22	28	32	45	48	48	50	53	53	49	44	46	41	42	38	33	34.9	52.9
15-Sep-07	33	32	32	32	A	29	28	29	30	28	41	60	64	63	63	60	57	57	53	51	46	49	47	44	44.8	64.1
16-Sep-07	43	39	41	37	A	36	35	42	41	37	36	33	32	32	32	35	37	37	37	37	35	31	31	29	35.8	43.4
17-Sep-07	28	31	32	33	A	32	31	28	32	34	36	36	36	35	34	32	31	31	30	30	29	25	26	24	31.3	36.4
18-Sep-07	22	25	26	23	A	18	18	17	18	19	20	22	24	25	27	26	28	29	27	27	28	28	27	30	24.0	29.9
19-Sep-07	29	22	16	18	A	24	20	16	18	21	20	20	22	24	28	29	29	28	27	32	33	30	27	24	24.2	32.8
20-Sep-07	23	28	29	29	A	27	24	22	27	30	34	37	37	35	34	33	34	33	28	27	26	21	19	19	28.5	36.6
21-Sep-07	16	17	14	13	A	13	10	6	13	13	18	25	36	41	41	41	41	40	38	33	29	28	28	28	25.2	41.3
22-Sep-07	25	22	23	21	A	20	18	19	19	21	22	21	21	18	21	21	18	19	19	14	13	13	11	10	18.6	24.7
23-Sep-07	15	16	18	18	A	16	14	13	14	16	17	23	24	21	22	23	23	24	23	19	17	17	14	12	18.3	24.2
24-Sep-07	10	7	8	9	A	9	9	11	13	16	16	20	23	24	25	29	30	31	32	29	28	25	26	26	19.8	32.1
25-Sep-07	27	28	28	28	A	34	34	31	29	32	33	34	34	37	38	37	37	37	37	36	40	39	40	40	34.3	39.6
26-Sep-07	40	40	38	36	A	37	37	37	36	38	38	39	40	39	39	39	41	40	39	35	35	32	32	31	37.2	40.6
27-Sep-07	33	35	35	31	A	29	30	27	27	28	27	30	30	31	41	42	42	42	45	46	43	36	37	38	35.1	46.4
28-Sep-07	35	35	34	34	A	31	30	30	31	30	31	24	23	22	26	27	26	23	21	20	16	20	20	20	26.5	35.5
29-Sep-07	20	20	19	18	A	18	16	18	18	19	19	24	25	26	27	29	31	29	26	27	27	25	26	26	23.2	30.9
30-Sep-07	27	27	29	25	A	22	18	24	16	18	22	32	34	33	32	33	34	32	28	30	26	27	26	19	26.8	34.4
Hourly Avg	24.7	24.3	23.7	22.5	N	21.3	19.8	20.1	21.9	24.4	27.0	30.6	32.1	32.7	33.7	33.8	33.8	32.8	31.1	29.7	28.8	27.8	27.3	26.1		
Hourly Max	43.4	39.6	41.0	36.9	0.0	36.6	36.8	41.8	40.7	37.8	41.5	60.2	64.1	63.3	62.8	60.3	56.5	56.6	53.0	51.0	46.5	48.6	47.0	44.2		

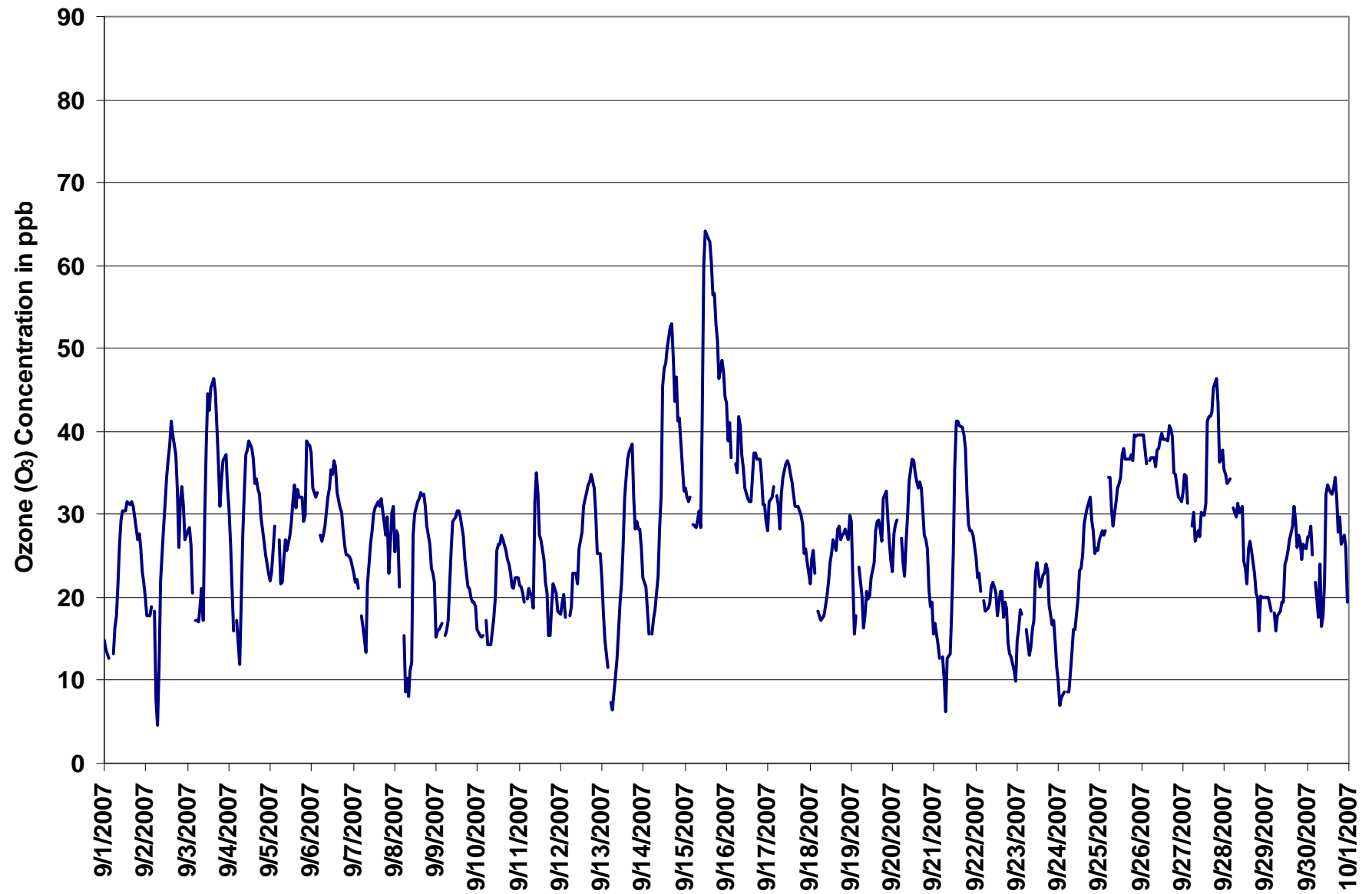
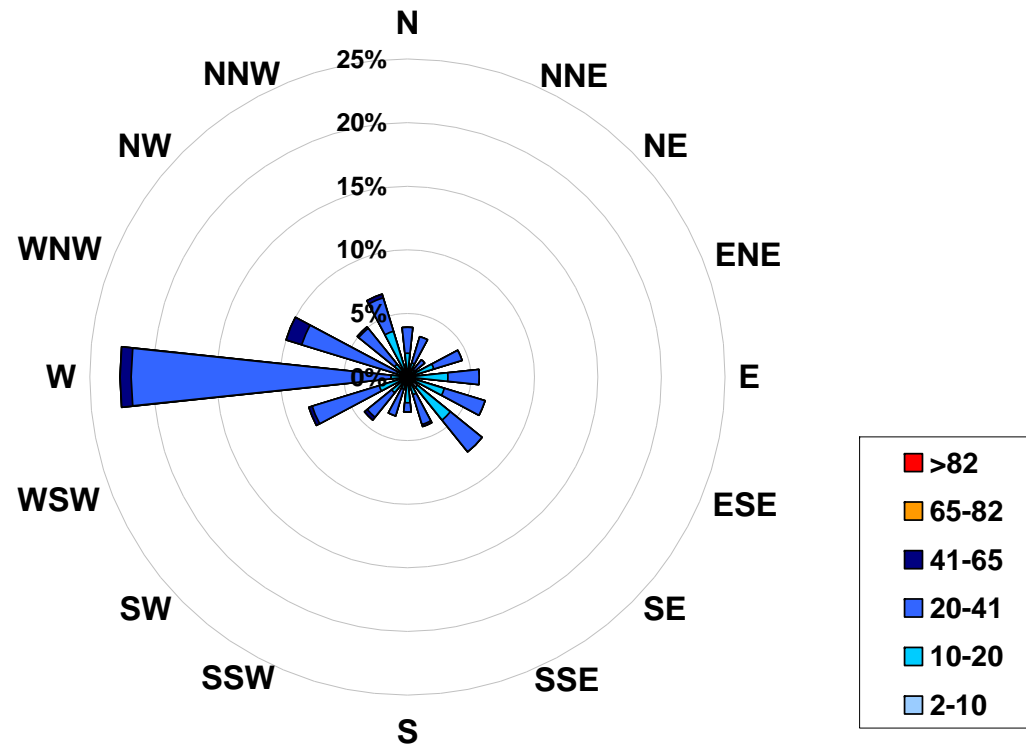


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for September 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		33
10	to 20		189
20	to 41		445
41	to 65		23
65	to 82		0
	> 82		0
Total Non-Zero Values			690

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

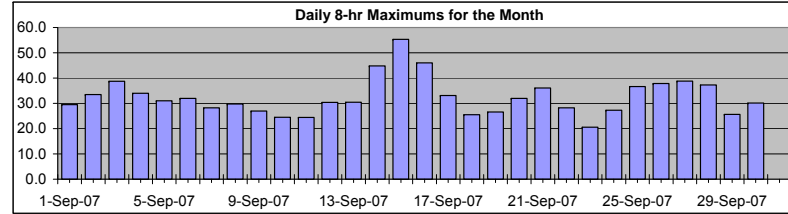
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

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

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	55.3	ppb	15-Sep	19:00 20:00



Percentile	99	95	75	50	25	5	1
	47.4	37.5	29.8	24.3	18.4	12.0	8.9

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

Day	Mountain Standard Time																								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	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Sep-07	26	24	21	19	18	15	14	12	13	15	17	20	21	23	25	27	29	29	29	29	28	27	26	25	29.5
2-Sep-07	23	21	20	19	18	16	14	11	10	9	11	13	15	19	23	27	30	33	33	33	32	31	29	27	33.5
3-Sep-07	26	25	24	24	23	20	19	17	16	14	14	16	19	23	27	31	34	37	39	38	37	36	35	33	38.7
4-Sep-07	31	29	27	25	24	22	18	16	15	17	19	23	24	27	30	33	34	34	34	33	31	30	28	27	34.0
5-Sep-07	25	24	23	22	22	22	21	21	21	22	22	23	23	24	25	27	28	28	29	29	29	29	30	31	31.0
6-Sep-07	31	31	31	31	32	31	29	27	26	26	27	27	28	29	30	31	32	32	31	30	29	27	26	25	32.0
7-Sep-07	24	23	22	22	21	20	19	17	17	17	18	19	20	22	24	26	28	28	28	28	27	25	24	24	28.2
8-Sep-07	23	23	22	21	21	20	17	14	12	10	8	9	11	14	17	21	24	27	29	30	29	28	27	25	29.7
9-Sep-07	22	20	19	17	17	15	14	14	15	16	18	20	21	23	24	26	27	27	26	25	24	22	21	20	27.0
10-Sep-07	19	18	17	17	16	15	14	14	13	13	13	14	16	17	19	21	23	24	24	24	24	23	22	21	24.5
11-Sep-07	21	20	20	19	19	19	18	17	17	17	19	21	21	23	23	24	24	23	21	19	18	18	17	16	24.4
12-Sep-07	16	17	17	17	17	16	16	17	18	18	18	20	20	22	24	25	26	28	30	30	30	30	29	28	30.4
13-Sep-07	27	24	22	19	19	16	13	11	9	9	10	12	12	15	18	22	25	29	30	30	30	30	29	28	30.4
14-Sep-07	26	24	22	22	21	20	18	17	16	17	19	21	24	28	33	37	41	43	44	45	43	42	41	38	44.8
15-Sep-07	36	34	33	32	32	30	29	29	28	27	27	30	33	38	42	46	49	53	55	55	53	52	50	48	55.3
16-Sep-07	46	44	42	41	40	38	36	35	35	34	34	33	33	33	33	32	32	32	32	33	33	33	33	32	46.0
17-Sep-07	31	30	29	29	28	28	28	27	28	29	30	30	31	31	32	33	33	33	32	31	30	29	28	27	33.1
18-Sep-07	25	25	24	23	23	22	21	20	19	19	18	18	18	19	20	21	22	23	24	24	24	25	25	25	25.5
19-Sep-07	25	24	22	21	21	21	20	18	17	17	18	18	19	19	20	21	23	24	24	25	26	27	26	25	26.5
20-Sep-07	25	24	25	26	25	24	24	24	24	25	25	26	27	28	30	31	32	32	31	30	28	26	24	22	32.0
21-Sep-07	19	17	15	13	12	12	10	9	9	9	11	13	17	17	21	26	29	33	35	36	35	34	32	30	36.0
22-Sep-07	28	26	24	22	22	21	19	18	17	17	17	17	17	17	17	17	17	17	17	16	16	15	14	13	28.2
23-Sep-07	12	12	11	12	11	12	12	13	13	14	14	14	15	16	17	18	19	20	21	20	19	19	18	16	20.5
24-Sep-07	15	13	11	10	9	8	7	7	8	9	10	11	12	14	16	18	20	22	24	26	27	27	27	27	27.3
25-Sep-07	27	26	26	26	26	27	28	28	29	29	30	30	31	31	32	33	34	34	35	35	36	36	36	37	36.7
26-Sep-07	37	37	38	38	38	37	37	36	36	35	35	36	36	36	37	37	38	38	38	37	36	35	34	33	37.8
27-Sep-07	32	31	31	31	30	30	30	29	28	27	26	25	26	26	27	29	31	32	35	37	39	39	39	38	38.8
28-Sep-07	37	36	35	33	32	32	31	29	29	28	28	27	26	25	25	25	24	23	22	22	21	21	20	19	37.3
29-Sep-07	19	18	18	17	18	17	17	16	16	16	16	17	18	19	20	22	23	24	25	26	26	25	25	25	25.6
30-Sep-07	24	24	24	24	24	23	21	19	17	15	14	15	17	20	22	24	27	29	30	30	29	28	26	25	30.1

Hourly Max 46.0 44.0 42.3 40.5 40.0 37.5 36.8 36.3 35.7 35.3 35.4 35.7 36.0 37.9 41.8 45.6 49.3 52.7 55.3 55.3 53.4 51.6 49.8 47.8

PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

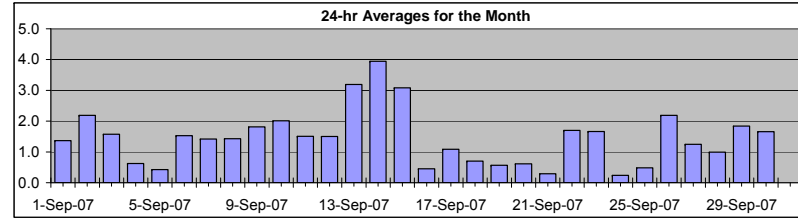
Particulate Matter (PM_{2.5})

Monitoring Dates: September 1, 2007 to October 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:	15.4 µg/m ³ 26-Sep 10:00 11:00
Maximum 24-hr Value:	3.9 µg/m ³ 14-Sep

AIC Time:	0 hrs	Operational Time:	718 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	6.8	4.2	2.3	1.1	0.2	0.0	0.0	1.4 1 µg/m ³	1.2 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	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Sep-07	0:00	2	2	2	2	2	2	3	4	2	2	0	0	0	0	0	0	0	2	2	2	1	2	1	1.4	3.8	
2-Sep-07	1:00	2	2	1	1	2	2	3	3	3	1	1	1	2	4	0	1	2	3	3	3	2	6	3	2.2	5.7	
3-Sep-07	2:00	2	4	2	2	3	2	1	3	2	2	0	0	0	0	0	3	3	2	2	1	4	1	0	1.6	4.0	
4-Sep-07	3:00	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0	0.6	1.6	
5-Sep-07	4:00	0	1	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.4	2.4	
6-Sep-07	5:00	0	1	1	1	2	2	2	2	2	1	1	0	0	1	11	1	1	2	2	2	0	1	0	1.5	11.0	
7-Sep-07	6:00	0	0	0	1	1	1	1	2	3	1	2	1	2	1	2	2	0	3	2	3	0	2	2	0	1.4	2.9
8-Sep-07	7:00	1	0	0	1	2	2	3	3	4	3	4	1	0	0	0	0	1	1	2	2	2	1	1	1.4	3.9	
9-Sep-07	8:00	1	1	1	1	0	2	1	2	3	3	1	0	0	1	2	2	3	2	2	3	3	2	2	1.8	3.4	
10-Sep-07	9:00	3	2	2	2	2	2	4	4	2	3	2	0	2	0	1	1	2	2	4	2	2	1	2	2.0	3.9	
11-Sep-07	10:00	1	2	1	2	2	2	5	6	5	2	0	2	2	1	1	1	0	0	0	0	0	0	0	1.5	6.0	
12-Sep-07	11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	5	7	7	5	3	2	1.5	7.1
13-Sep-07	12:00	1	3	2	3	2	2	3	3	2	3	3	4	4	3	3	3	3	2	4	6	4	4	3	3.2	6.1	
14-Sep-07	13:00	4	2	2	3	3	3	3	4	5	4	3	4	0	2	3	2	3	5	7	9	7	4	5	5	3.9	9.5
15-Sep-07	14:00	4	3	3	4	4	4	3	4	6	5	6	0	0	2	3	1	2	1	3	6	7	1	1	0	3.1	7.0
16-Sep-07	15:00	2	3	0	0	0	0	0	0	0	0	0	1	0	D	0	0	0	0	1	0	1	1	0	1	0.5	2.8
17-Sep-07	16:00	2	0	0	0	0	1	0	1	1	0	0	0	0	2	1	2	2	2	2	2	3	3	1	1	1.1	2.9
18-Sep-07	17:00	1	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	2	2	2	2	1	0.7	2.0	
19-Sep-07	18:00	1	2	1	0	1	0	2	3	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0.6	3.3
20-Sep-07	19:00	0	0	0	0	0	0	0	1	1	0	0	0	0	4	2	2	0	1	0	0	1	1	0	1	0.6	3.7
21-Sep-07	20:00	0	0	0	0	0	0	1	0	1	0	0	1	0	D	0	0	0	3	0	0	0	0	0	1	0.3	3.1
22-Sep-07	21:00	0	0	0	1	1	1	2	2	3	3	2	3	1	1	1	2	2	1	2	3	3	1	2	1.7	3.3	
23-Sep-07	22:00	1	1	1	2	3	2	4	4	4	2	3	3	2	2	1	0	1	2	1	1	1	1	0	0	1.7	4.4
24-Sep-07	23:00	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.2	1.5
25-Sep-07	0:00	0	0	0	0	0	0	1	1	1	1	1	2	2	0	0	0	1	1	1	0	0	0	0	0	0.5	2.1
26-Sep-07	1:00	0	0	1	0	1	2	1	1	1	1	15	1	1	0	1	2	2	2	2	3	3	5	3	3	2.2	15.4
27-Sep-07	2:00	2	1	0	0	0	0	0	1	1	4	3	3	2	2	1	0	0	0	0	1	1	3	3	1	1.2	3.6
28-Sep-07	3:00	0	0	1	0	0	1	1	2	3	2	3	1	1	1	1	1	2	1	2	1	2	1	0	0	1.0	2.8
29-Sep-07	4:00	0	0	0	0	0	0	1	1	0	0	1	1	2	2	2	1	1	7	9	3	4	3	4	3	1.8	9.3
30-Sep-07	5:00	3	1	2	1	2	3	2	4	5	4	3	1	0	0	1	0	0	1	1	0	1	1	2	1	1.7	4.6
Hourly Avg		1.2	1.0	0.8	1.0	1.1	1.2	1.6	2.2	2.1	1.7	2.0	1.2	0.6	1.0	1.1	1.2	1.0	1.7	1.9	2.2	2.2	1.8	1.6	1.1		
Hourly Max		4.4	3.6	3.1	4.0	4.2	3.5	5.0	6.0	5.5	4.9	15.4	4.3	4.2	3.7	4.4	11.0	3.5	6.8	9.3	9.5	7.0	5.3	5.7	5.3		

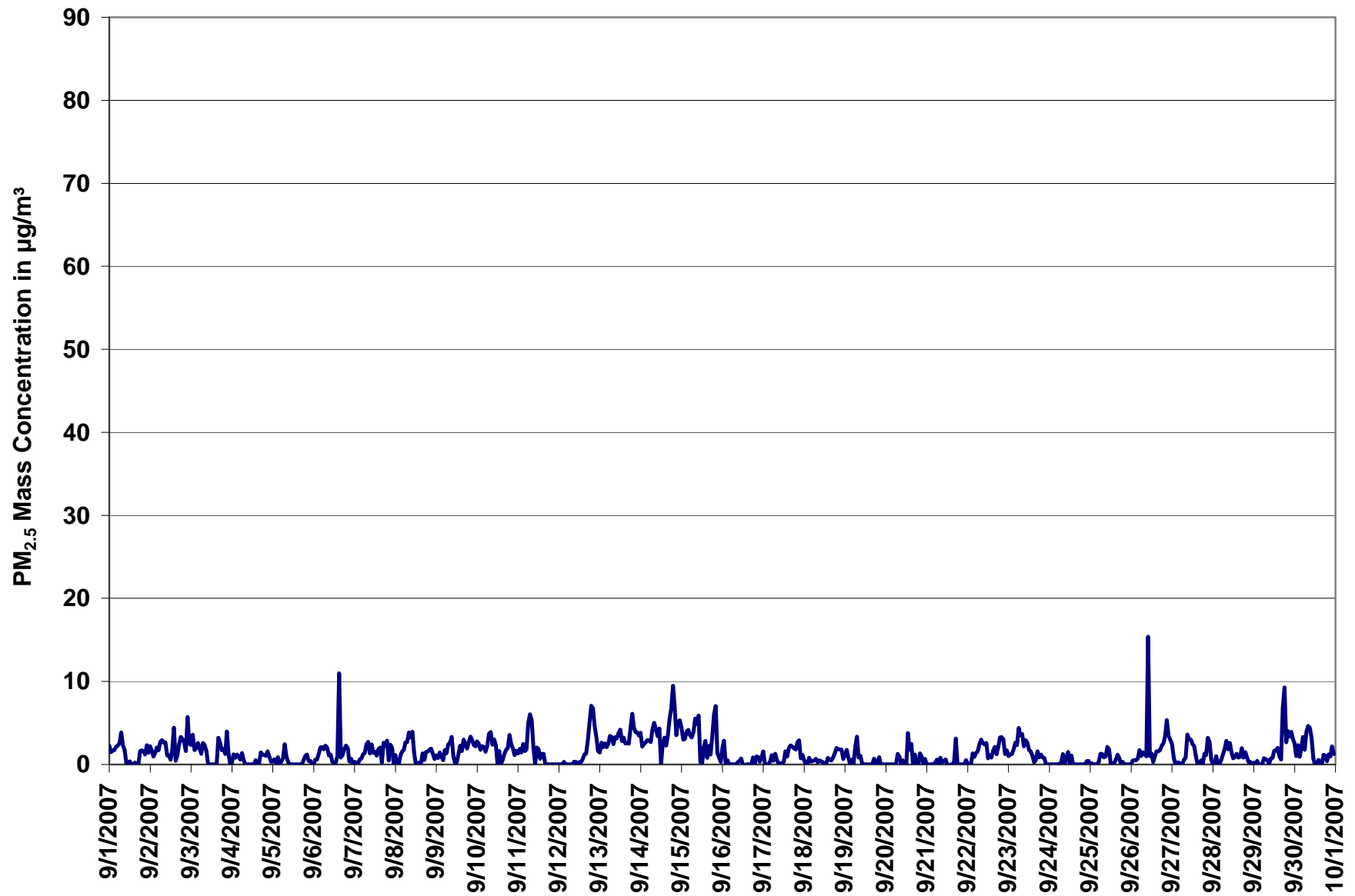


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

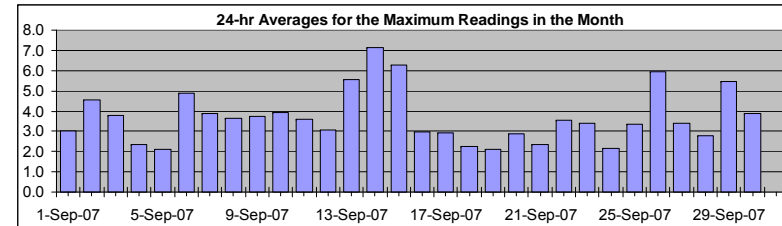
Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	55.2	µg/m ³	26-Sep	10:00 11:00
Maximum 24-hr Value:	7.2	µg/m ³	14-Sep	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.8	7.6	4.5	3.1	2.0	0.9	0.2	3.7	3 µg/m ³



Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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	24:00	24-hour Average	Daily Maximum
1-Sep-07	4	3	3	3	3	4	4	5	4	3	2	2	2	2	3	2	2	4	3	3	3	3	3	3	3.0	4.9
2-Sep-07	4	4	2	3	5	3	5	4	5	5	3	3	3	5	8	3	4	5	6	4	4	3	12	5	4.5	11.8
3-Sep-07	4	5	2	4	4	4	3	4	5	4	4	1	3	2	1	1	10	6	3	4	3	7	6	1	3.8	9.6
4-Sep-07	3	3	2	2	2	2	3	3	2	2	1	1	2	2	3	1	2	5	3	2	3	3	3	2	2.3	4.6
5-Sep-07	2	2	3	2	2	1	3	4	3	2	2	1	2	1	1	0	2	1	3	3	3	3	2	1	2.1	4.1
6-Sep-07	1	2	2	2	4	4	4	4	4	3	4	3	3	2	18	35	3	3	4	4	3	1	2	1	4.9	35.3
7-Sep-07	1	1	1	2	2	3	3	5	5	3	4	3	3	3	5	5	2	7	6	7	4	5	9	2	3.9	8.8
8-Sep-07	4	2	2	4	4	3	4	5	6	5	6	5	2	2	3	2	6	2	4	5	4	4	3	2	3.7	5.9
9-Sep-07	2	3	3	2	2	3	3	4	4	5	4	2	3	3	6	4	6	6	3	4	5	4	4	3	3.7	6.5
10-Sep-07	4	3	4	4	4	3	4	5	6	4	5	5	2	3	2	2	3	5	6	6	4	4	3	3	3.9	6.3
11-Sep-07	4	3	3	4	3	3	8	15	7	5	2	6	5	3	3	3	2	1	2	1	0	1	1	1	3.6	15.0
12-Sep-07	1	0	0	2	1	1	1	1	1	2	2	3	3	2	2	4	4	5	7	9	9	6	5	4	3.1	9.2
13-Sep-07	3	4	4	4	4	4	5	6	5	5	6	7	8	6	6	5	5	8	9	9	7	5	5	5	5.5	9.0
14-Sep-07	5	4	5	4	5	6	4	7	7	7	6	7	3	6	6	6	6	14	11	18	11	8	6	7	7.2	18.3
15-Sep-07	6	5	5	5	6	6	5	5	9	8	10	9	4	6	7	6	6	4	6	11	12	5	2	4	6.3	11.5
16-Sep-07	4	6	4	9	2	3	2	1	0	2	4	4	3	0	1	3	2	3	5	1	2	3	4	2	2.9	8.6
17-Sep-07	3	1	1	1	2	2	2	3	2	3	3	2	2	4	3	5	5	4	4	3	5	5	2	2	2.9	5.5
18-Sep-07	3	2	1	3	2	2	2	2	1	2	1	1	1	1	3	2	2	3	3	4	4	3	4	3	2.2	3.9
19-Sep-07	4	4	2	1	2	1	3	5	3	2	1	1	2	1	0	1	2	3	1	4	6	0	0	0	2.1	5.9
20-Sep-07	0	0	0	1	1	1	2	2	3	2	2	2	2	7	5	10	2	6	4	2	5	4	1	6	2.9	9.9
21-Sep-07	2	2	0	1	1	2	3	1	2	3	2	3	2	3	3	2	3	10	2	1	2	1	1	2	2.3	10.0
22-Sep-07	1	1	2	4	4	3	3	4	6	4	4	6	2	3	4	3	4	3	4	5	5	5	3	3	3.6	5.8
23-Sep-07	2	4	4	3	4	4	6	4	6	3	5	5	4	4	3	2	2	4	2	3	2	2	1	1	3.4	6.5
24-Sep-07	2	1	2	2	2	1	1	2	5	5	4	4	1	3	2	1	2	2	0	2	2	1	3	2	2.1	4.9
25-Sep-07	2	1	2	1	1	2	4	3	4	15	14	12	1	1	3	3	4	2	1	1	1	0	1	1	3.3	15.0
26-Sep-07	2	2	3	1	4	4	3	5	4	3	55	4	3	2	3	3	4	4	5	4	5	10	5	4	5.9	55.2
27-Sep-07	4	2	2	3	2	2	2	3	3	5	7	5	4	5	4	2	2	3	3	3	3	6	6	3	3.4	7.3
28-Sep-07	1	1	3	2	2	2	3	4	7	5	5	3	2	3	3	3	3	3	2	3	3	2	1	1	2.8	7.2
29-Sep-07	2	1	2	2	1	2	3	2	3	2	3	3	3	3	4	4	3	22	35	5	8	6	7	5	5.5	34.9
30-Sep-07	4	3	4	2	5	7	5	9	8	6	5	3	3	2	2	3	1	3	3	2	3	2	5	2	3.9	9.1
Hourly Avg	2.7	2.6	2.4	2.8	2.9	3.0	3.4	4.3	4.3	4.2	5.9	3.9	2.8	3.0	3.9	4.3	3.4	4.8	5.1	4.3	4.3	3.9	3.7	2.6		
Hourly Max	5.6	5.8	5.2	8.6	5.7	7.3	8.4	15.0	9.0	15.0	55.2	11.6	7.8	6.6	18.2	35.3	9.6	22.0	34.9	18.3	11.5	9.9	11.8	6.7		

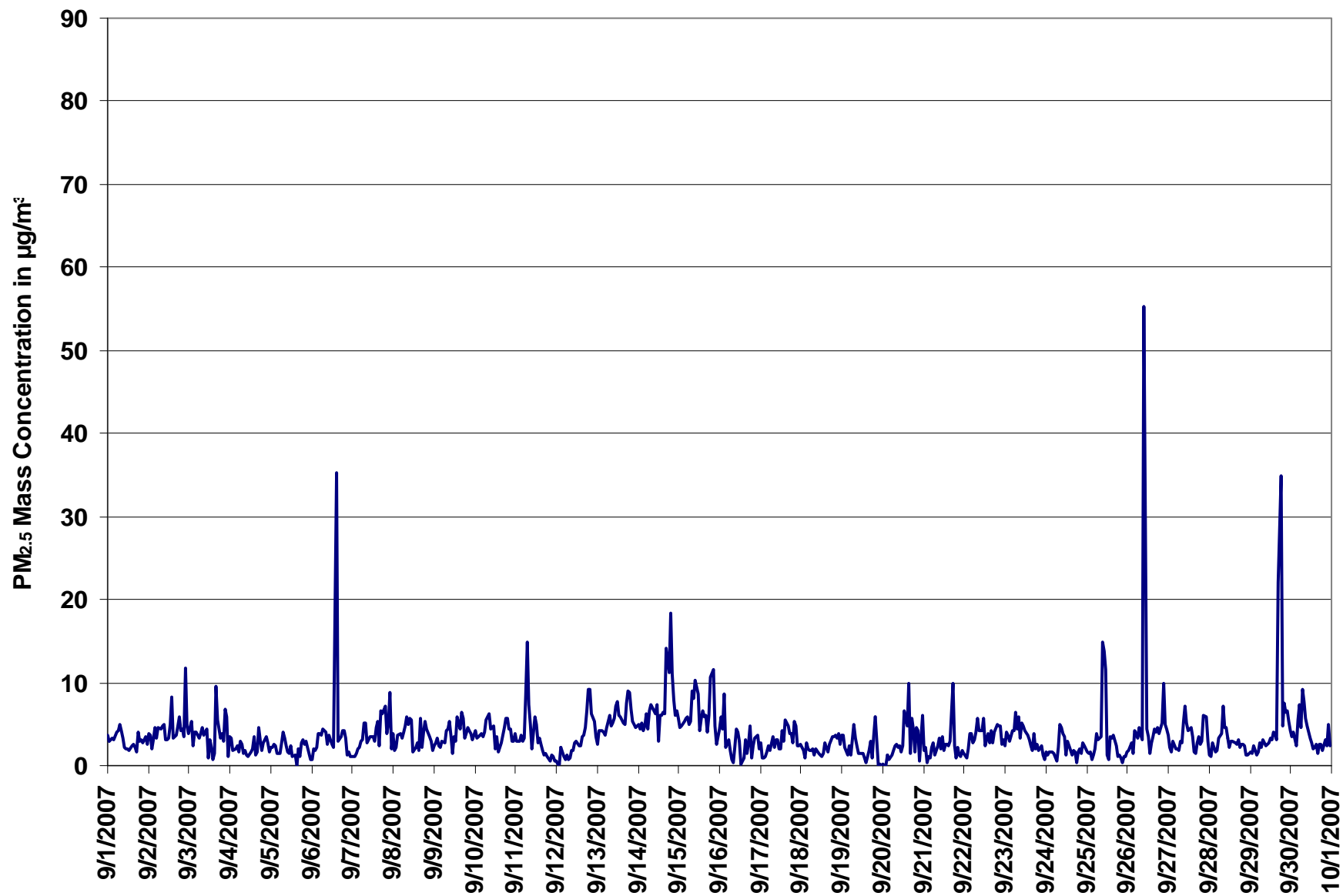
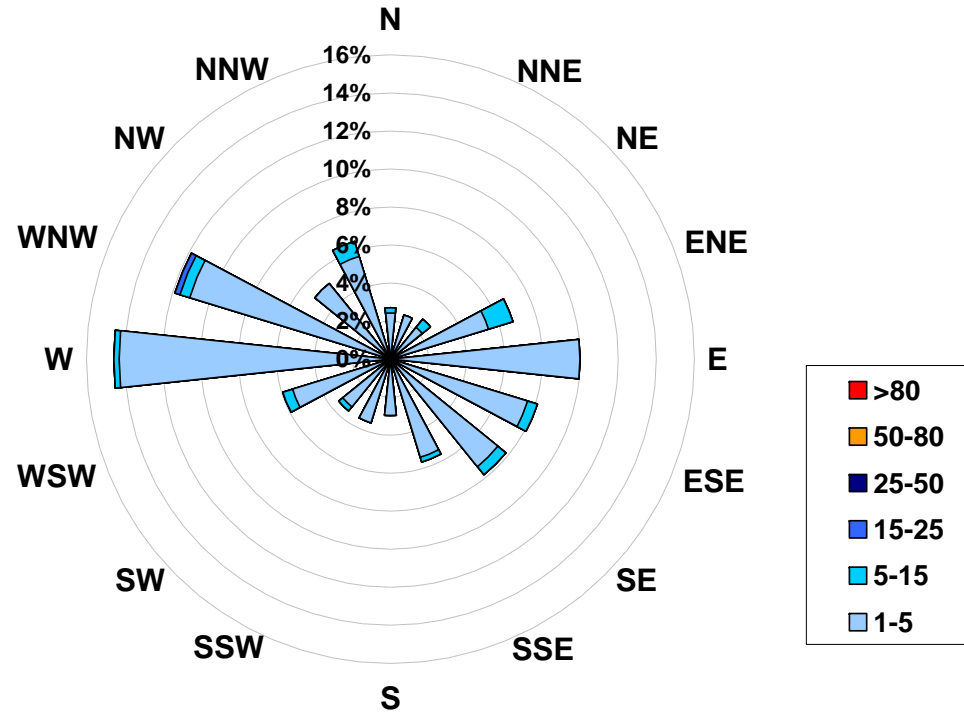


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for September 2007



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

Frequency Distribution of PM _{2.5} in µg/m ³		
Range	Frequency (hrs)	
1.0 < 5	695	
5 to 15	22	
15 to 25	1	
25 to 50	0	
50 to 80	0	
> 80	0	
Total Non-Zero Values	718	

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

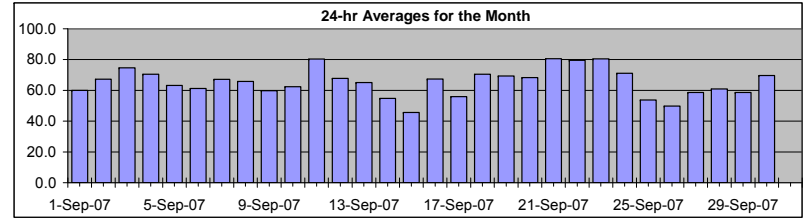
Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	96.1	%	11-Sep	13:00 14:00
Maximum 24-hr Value:	80.6	%	21-Sep	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	95.2	91.9	79.2	66.2	52.6	35.7	23.3	65.3 %	66.2 %



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-Sep-07	87	87	88	88	89	86	81	75	68	60	47	42	41	34	33	33	36	41	51	53	55	66	65	60.0	88.5		
2-Sep-07	71	71	72	71	79	89	89	90	82	63	43	44	40	39	58	54	52	58	62	71	73	69	83	94	67.3	93.9	
3-Sep-07	93	92	94	95	95	95	96	95	89	78	66	56	47	46	40	38	51	60	64	72	69	78	93	90	74.6	95.7	
4-Sep-07	89	94	94	95	93	93	94	90	80	69	61	56	51	46	42	44	44	48	51	59	69	73	78	78	70.5	95.2	
5-Sep-07	80	79	73	67	68	70	76	74	68	61	59	56	56	54	50	49	46	47	53	60	63	64	71	70	63.1	80.3	
6-Sep-07	76	83	80	77	76	77	80	76	68	53	48	44	42	38	38	42	41	40	48	59	67	67	72	75	61.1	82.7	
7-Sep-07	78	81	80	83	83	87	86	79	65	56	53	50	45	41	44	54	43	58	65	74	72	78	80	79	67.1	86.8	
8-Sep-07	82	81	85	91	89	92	93	89	84	78	74	53	40	36	35	31	34	36	44	52	65	65	70	78	65.8	93.2	
9-Sep-07	77	76	73	71	71	72	74	67	61	52	44	41	39	37	40	41	47	51	59	62	66	68	70	75	59.8	76.7	
10-Sep-07	81	82	84	85	84	85	88	79	70	63	61	51	41	41	36	35	38	41	46	55	62	62	63	66	62.3	87.8	
11-Sep-07	71	73	79	79	79	79	79	75	72	67	69	84	96	96	96	94	86	83	82	82	73	76	80	79	80.4	96.1	
12-Sep-07	80	80	81	87	85	83	82	78	73	68	69	60	56	52	49	45	46	46	49	60	74	73	74	78	67.8	86.6	
13-Sep-07	84	89	91	92	93	93	90	79	73	71	61	49	44	36	37	33	32	38	48	59	62	64	67	74	65.1	93.2	
14-Sep-07	83	85	85	86	85	83	80	70	60	56	48	42	28	26	24	23	23	28	36	45	54	49	53	63	54.8	85.9	
15-Sep-07	63	63	60	56	58	61	57	55	53	49	42	27	17	15	18	18	21	22	25	31	59	67	80	79	45.7	79.9	
16-Sep-07	80	81	78	81	80	79	79	72	66	66	67	77	79	56	51	52	48	47	54	58	63	67	66	70	67.4	81.1	
17-Sep-07	74	70	71	63	70	65	70	67	56	46	40	36	34	35	38	41	40	45	48	53	57	68	74	78	55.8	78.0	
18-Sep-07	79	79	79	79	82	81	80	80	77	72	69	67	62	60	58	61	61	62	65	67	66	69	69	66	70.4	81.6	
19-Sep-07	73	81	86	85	82	77	79	81	75	66	64	61	56	52	48	46	49	52	47	51	82	90	90	91	69.3	91.3	
20-Sep-07	84	75	73	70	70	76	79	76	69	59	49	44	44	55	63	65	62	64	74	69	71	79	80	88	68.3	88.0	
21-Sep-07	92	91	93	96	94	92	94	95	93	91	88	79	63	45	41	43	48	77	83	89	88	86	86	84	80.6	96.1	
22-Sep-07	85	87	88	90	88	87	87	83	80	79	77	77	71	69	65	66	70	71	71	77	80	85	86	90	79.5	90.3	
23-Sep-07	91	90	90	89	90	88	88	89	88	85	82	76	68	68	65	51	55	61	73	81	86	88	92	95	80.5	95.2	
24-Sep-07	96	94	94	93	91	90	89	84	80	69	69	60	56	59	56	47	45	47	53	58	62	66	73	77	71.1	95.6	
25-Sep-07	72	68	69	70	65	62	62	63	59	52	46	41	38	34	33	38	43	46	51	56	56	55	54	55	53.7	72.4	
26-Sep-07	57	58	59	60	62	65	70	66	62	50	44	38	37	33	33	36	34	35	40	48	47	54	54	55	49.8	69.6	
27-Sep-07	56	55	60	61	61	63	62	64	60	59	65	57	52	50	46	43	46	48	55	60	65	72	72	72	58.6	72.4	
28-Sep-07	74	73	74	72	70	72	70	66	60	60	61	58	53	53	46	46	45	51	54	57	59	61	63	63	60.9	74.1	
29-Sep-07	63	66	71	76	79	78	76	75	71	61	56	51	47	44	43	42	41	46	51	50	54	55	53	56	58.6	79.4	
30-Sep-07	55	58	60	63	60	72	72	77	85	85	82	75	62	60	62	60	58	62	66	68	73	79	87	90	69.6	90.1	
Hourly Avg	77.5	78.1	78.8	79.1	79.0	79.7	80.1	76.9	71.5	64.8	60.1	55.1	50.1	47.0	46.3	45.8	46.0	50.2	55.3	61.0	66.3	69.5	73.3	75.8			
Hourly Max	95.6	94.2	94.3	96.1	94.8	95.0	95.7	95.2	93.4	90.7	87.7	83.6	95.8	96.1	96.0	94.2	86.1	82.6	83.3	88.7	88.2	89.9	93.2	95.2			

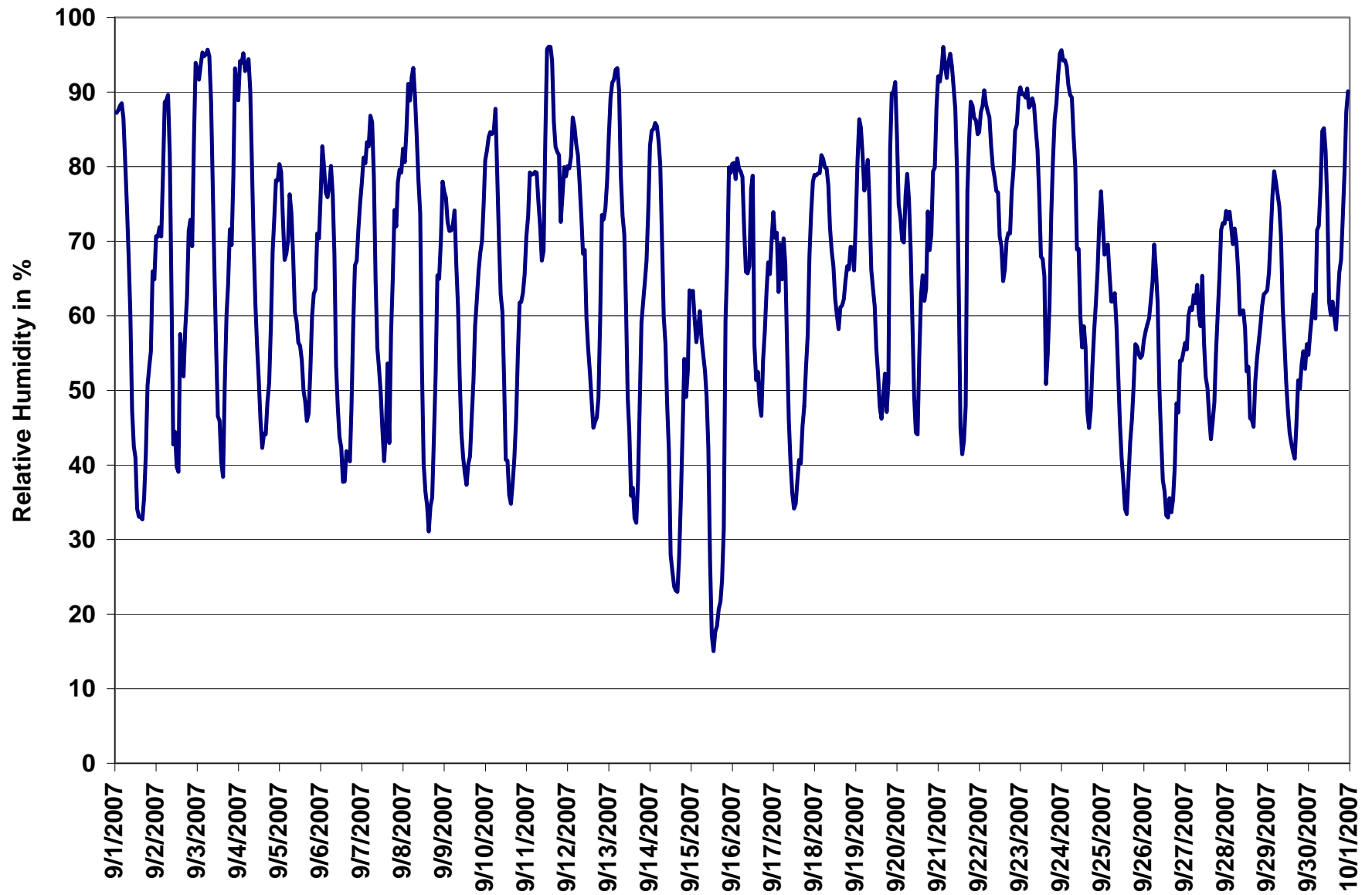


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

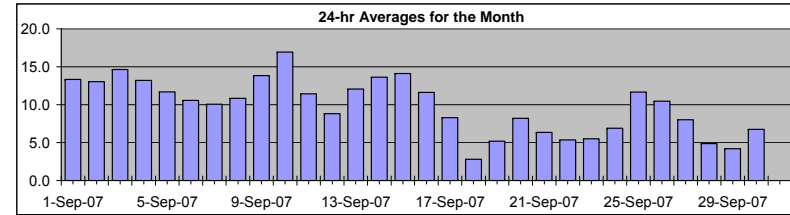
Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	25.4	°C	10-Sep	15:00 16:00
Maximum 24-hr Value:	16.9	°C	10-Sep	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.4	19.8	13.2	9.5	5.8	2.2	0.2	9.8 °C	9.5 °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																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	7	7	7	7	7	7	7	8	11	13	15	17	18	18	20	20	20	20	18	17	15	14	13	11	11	13.3	19.9
2-Sep-07	10	10	10	10	8	6	6	7	9	14	18	18	19	19	16	17	18	17	16	15	14	13	12	11	13.0	19.4	
3-Sep-07	11	11	11	10	10	10	10	11	12	14	17	18	20	20	21	20	19	18	17	16	15	14	12	12	14.6	20.8	
4-Sep-07	12	11	11	11	11	11	10	11	12	14	15	16	17	18	19	18	17	16	15	14	11	10	9	9	13.2	18.6	
5-Sep-07	8	8	8	9	9	9	8	10	12	14	14	14	14	14	15	15	16	16	14	13	12	11	9	8	11.7	16.1	
6-Sep-07	7	6	6	7	7	7	7	7	9	12	14	15	15	16	16	15	15	15	14	11	9	9	8	7	10.6	16.1	
7-Sep-07	6	5	6	5	5	4	4	6	10	12	13	14	16	17	16	14	16	13	12	10	10	9	9	8	10.1	17.0	
8-Sep-07	7	7	6	5	6	4	4	6	7	8	10	16	17	18	19	18	18	17	15	13	10	10	9	7	10.8	19.1	
9-Sep-07	7	7	8	8	8	7	7	9	12	15	18	20	21	22	21	21	20	19	16	15	14	14	13	12	13.8	21.7	
10-Sep-07	11	11	10	10	11	10	10	12	15	17	18	21	23	24	25	25	25	23	22	19	17	17	16	15	16.9	25.4	
11-Sep-07	14	13	11	11	11	11	12	13	14	15	14	12	11	11	11	11	12	11	11	10	10	9	8	7	11.4	15.4	
12-Sep-07	6	5	5	4	4	4	5	6	7	8	8	11	12	13	14	16	15	15	14	11	8	8	8	7	8.8	15.7	
13-Sep-07	6	5	4	4	3	3	3	5	7	9	12	16	19	22	21	23	23	20	18	16	14	13	12	11	12.1	22.9	
14-Sep-07	9	8	7	5	5	4	4	6	9	12	15	19	22	23	23	24	23	22	20	17	14	14	12	10	13.6	23.8	
15-Sep-07	9	8	8	8	7	7	7	7	10	12	16	21	23	23	23	21	21	20	19	17	14	13	12	12	14.1	23.4	
16-Sep-07	12	12	12	11	11	11	11	12	12	12	12	12	12	16	15	14	15	14	12	10	9	8	8	6	11.6	15.6	
17-Sep-07	5	5	4	5	4	5	4	5	8	10	11	12	13	13	12	11	12	11	10	10	9	8	6	5	8.3	12.9	
18-Sep-07	5	3	2	2	1	1	1	1	2	2	3	3	4	4	5	4	4	3	3	3	3	3	3	3	2.8	4.7	
19-Sep-07	2	2	1	0	0	1	1	1	3	5	6	6	8	9	10	11	10	10	10	9	6	5	5	4	5.2	10.8	
20-Sep-07	5	6	6	7	7	6	5	6	8	10	13	14	13	12	10	11	11	10	8	7	7	6	5	3	8.2	13.6	
21-Sep-07	2	2	2	2	3	3	3	3	4	5	7	9	12	15	15	14	13	8	7	5	5	4	4	4	6.4	15.2	
22-Sep-07	4	3	2	2	2	3	3	4	6	7	7	8	8	8	8	8	7	7	6	6	6	5	5	4	5.4	8.5	
23-Sep-07	4	4	4	3	3	3	3	4	4	4	5	6	8	8	9	12	11	10	7	6	5	4	3	2	5.5	12.4	
24-Sep-07	2	1	1	0	1	0	0	1	3	6	7	11	12	12	12	14	14	13	12	11	10	9	8	8	6.9	14.3	
25-Sep-07	9	10	9	9	9	10	10	9	11	12	14	15	16	16	16	16	14	13	13	12	11	10	11	11	11.7	16.0	
26-Sep-07	11	11	10	10	10	9	8	8	9	11	12	14	14	14	14	14	13	14	13	11	8	9	7	6	6	10.5	14.5
27-Sep-07	6	6	5	5	6	5	5	5	6	7	7	10	11	12	14	14	13	11	10	8	8	6	6	6	8.0	14.3	
28-Sep-07	5	5	4	4	4	3	3	3	5	5	5	6	7	7	9	8	8	6	5	4	4	3	2	1	4.9	8.7	
29-Sep-07	1	1	0	-1	-1	-1	-1	-1	0	2	4	6	7	9	9	10	10	9	7	7	7	6	6	6	4.2	9.7	
30-Sep-07	6	5	5	5	5	4	4	4	4	4	6	7	10	11	11	10	10	9	9	8	7	7	6	5	6.8	10.7	
Hourly Avg	6.9	6.5	6.2	6.0	5.9	5.6	5.5	6.5	8.1	9.8	11.3	12.9	14.1	14.8	15.0	14.9	14.7	13.6	12.3	10.8	9.6	9.0	8.1	7.4			
Hourly Max	13.8	13.0	12.0	11.3	11.3	11.0	11.7	13.2	15.1	17.0	18.3	21.0	23.5	23.8	24.8	25.4	24.6	23.4	21.6	18.8	16.9	16.6	15.9	15.3			

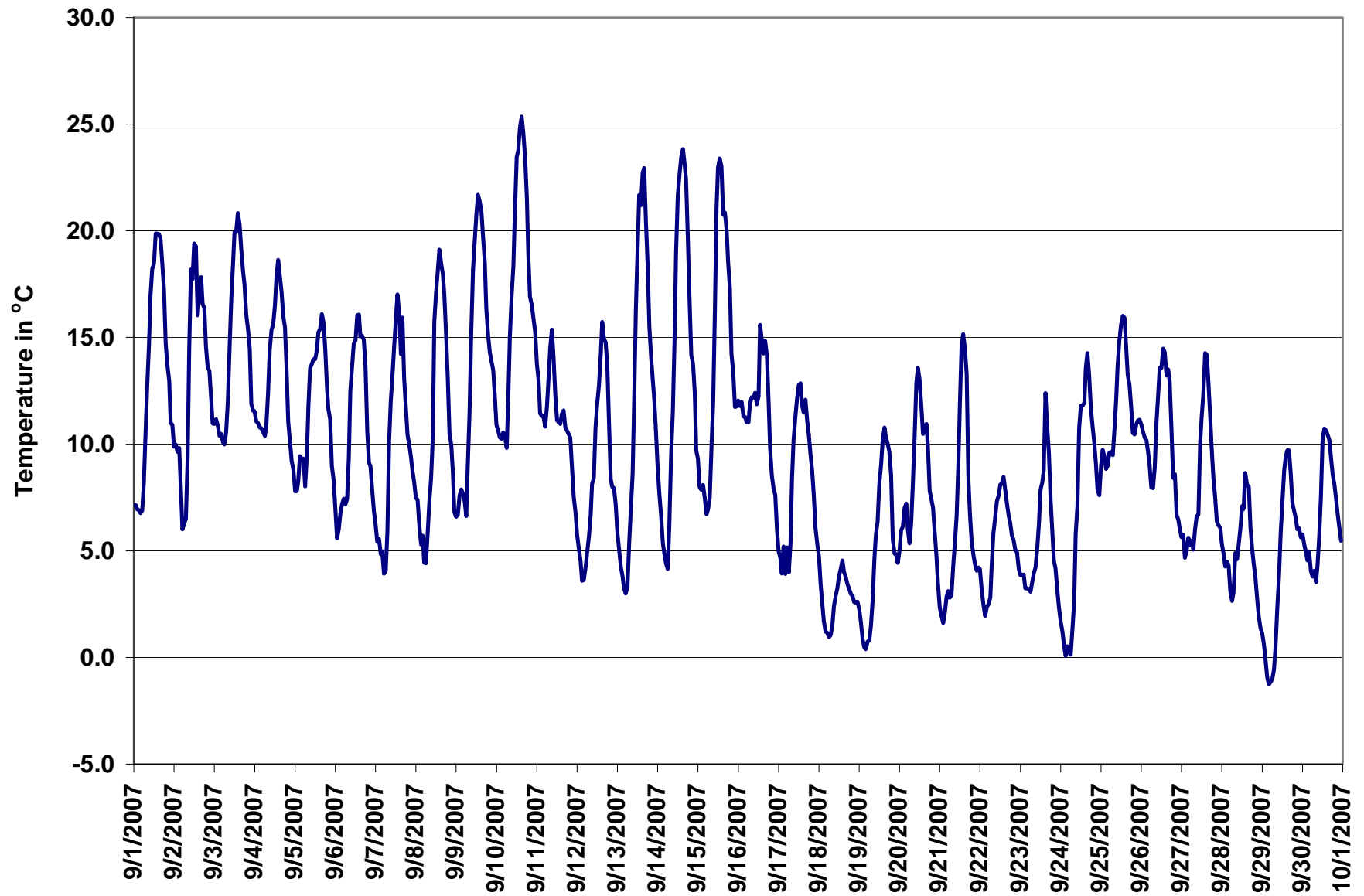


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

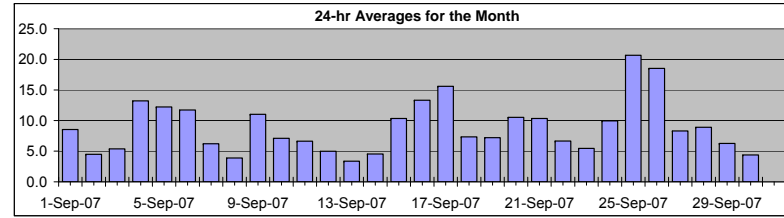
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	31.7	km/hr	17-Sep	12:00 13:00
Maximum 24-hr Value:	20.7	km/hr	25-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.0	23.4	12.2	6.7	3.8	2.0	1.3	8.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	3	1	2	3	2	2	2	2	5	5	13	16	17	20	19	17	18	16	10	7	8	7	4	3	8.5	19.9	
2-Sep-07	3	2	3	7	4	5	3	4	6	2	3	5	5	5	10	5	5	5	4	4	4	4	7	4	4.5	10.0	
3-Sep-07	6	6	3	3	2	1	2	2	4	6	5	5	6	4	8	12	10	7	7	5	3	8	10	6	5.4	11.5	
4-Sep-07	5	4	3	4	5	4	4	6	13	18	19	16	19	23	26	24	27	20	20	18	10	12	9	8	13.2	26.6	
5-Sep-07	5	5	5	8	6	10	7	7	10	14	13	15	19	21	17	21	21	19	15	13	10	13	11	7	12.2	21.1	
6-Sep-07	5	5	8	10	11	9	10	10	11	19	18	16	13	15	17	17	14	13	13	15	9	10	8	5	11.7	18.6	
7-Sep-07	2	2	2	3	2	3	3	3	8	15	15	12	10	8	10	7	5	6	6	6	4	5	8	5	6.2	14.7	
8-Sep-07	5	4	3	2	5	3	5	2	2	3	3	4	5	5	4	7	7	6	4	3	3	3	3	4	3.9	7.2	
9-Sep-07	4	4	3	4	4	3	3	2	7	10	17	18	19	18	20	19	17	17	18	17	15	12	8	4	11.0	19.6	
10-Sep-07	3	3	4	4	5	2	2	2	2	3	6	7	7	7	10	12	16	16	15	12	10	9	6	9	7.1	16.3	
11-Sep-07	5	4	0	3	1	2	4	5	9	13	11	7	7	7	8	9	11	10	8	8	10	7	6	6	6.6	12.9	
12-Sep-07	6	5	4	4	4	4	5	6	4	4	5	5	7	7	8	7	8	6	3	2	4	4	4	4	5.0	7.9	
13-Sep-07	4	4	4	3	3	3	2	3	3	5	4	3	2	3	4	3	2	4	5	4	4	4	4	3	3.4	5.3	
14-Sep-07	1	1	2	2	3	3	3	3	2	3	4	6	14	12	11	9	8	3	3	4	3	3	2	4	4.5	13.8	
15-Sep-07	4	3	2	3	3	2	1	2	2	4	5	16	25	25	20	22	17	19	15	14	14	16	8	4	10.3	25.4	
16-Sep-07	8	8	9	9	7	7	8	15	17	10	9	10	8	19	24	25	23	24	22	21	16	15	6	3	13.3	24.8	
17-Sep-07	4	6	5	5	8	14	8	13	19	25	28	29	32	26	23	23	21	19	18	14	7	7	12	8	15.6	31.7	
18-Sep-07	10	12	12	10	8	7	8	7	8	7	7	8	8	7	9	10	9	6	5	4	4	5	4	4	7.3	12.2	
19-Sep-07	3	2	3	4	4	4	5	5	6	10	9	9	8	8	8	7	8	10	12	15	15	7	5	5	7.2	14.9	
20-Sep-07	7	11	10	11	13	11	8	8	13	20	20	17	14	13	13	13	15	8	6	6	6	4	2	4	10.5	20.2	
21-Sep-07	3	3	2	4	3	3	3	3	5	5	6	9	19	29	30	26	27	25	13	8	3	6	4	7	10.3	29.8	
22-Sep-07	8	3	4	4	0	2	2	5	6	8	13	13	14	13	13	11	8	8	7	5	5	4	2	3	6.6	14.5	
23-Sep-07	4	4	7	6	6	6	6	6	8	9	8	7	9	6	4	3	3	6	6	4	4	3	3	3	5.5	9.4	
24-Sep-07	3	3	4	4	3	3	2	1	2	2	5	4	7	8	7	20	29	31	25	19	15	18	16	7	9.9	30.7	
25-Sep-07	9	20	20	17	17	23	17	15	16	21	22	22	23	24	26	29	26	24	21	14	15	20	27	27	20.7	28.8	
26-Sep-07	25	22	20	20	22	21	19	20	21	25	25	23	24	27	27	23	26	18	11	8	6	4	4	4	18.5	27.2	
27-Sep-07	3	5	6	6	6	6	8	8	11	10	7	3	5	7	13	18	18	17	15	11	7	4	2	2	8.3	18.3	
28-Sep-07	4	7	9	11	9	9	9	7	10	12	11	11	13	10	10	11	11	9	8	8	6	8	7	6	8.9	12.6	
29-Sep-07	3	4	5	4	4	3	4	4	8	13	14	11	10	10	9	6	5	5	7	6	4	4	3	3	6.3	13.8	
30-Sep-07	1	4	1	2	2	2	2	5	3	4	3	5	6	6	9	8	9	6	5	5	5	3	3	3	4.4	9.3	
1-hr Average	5.2	5.6	5.5	6.0	5.8	5.9	5.5	6.0	8.0	10.1	11.0	11.1	12.4	13.2	13.8	14.1	14.1	12.7	10.9	9.3	7.7	7.5	6.6	5.5			
Hourly Max	25.2	22.1	20.1	19.8	22.1	22.6	19.2	20.3	20.7	24.9	28.2	29.3	31.7	29.4	29.8	28.8	28.8	30.7	25.3	20.8	16.0	19.7	27.3	27.0			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

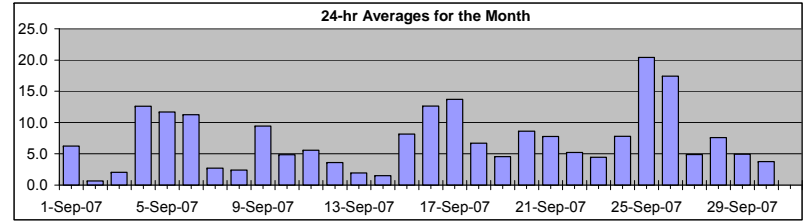
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	31.5	km/hr	17-Sep	12:00 13:00
Maximum 24-hr Value:	20.4	km/hr	25-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.9	23.1	12.1	6.4	3.3	1.4	0.6	26.8 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-Sep-07	3	1	2	3	2	2	1	1	5	5	13	16	16	20	19	17	18	16	10	7	8	7	3	3		6.2	19.6	
2-Sep-07	3	1	2	6	3	3	1	2	6	1	1	4	3	3	9	1	4	4	3	4	4	4	6	2		0.7	9.4	
3-Sep-07	6	1	2	3	2	1	2	2	4	5	4	5	4	4	7	11	9	7	7	5	3	7	10	6		2.1	10.8	
4-Sep-07	4	4	2	4	5	4	4	6	13	18	19	16	18	23	26	24	26	20	20	18	10	12	9	8		12.6	26.3	
5-Sep-07	5	1	2	7	6	10	7	7	10	14	13	14	19	20	17	20	21	18	15	13	10	13	11	7		11.7	20.8	
6-Sep-07	5	4	8	10	11	9	10	10	10	18	18	16	13	15	17	16	13	12	12	15	9	10	8	4		11.3	18.4	
7-Sep-07	1	2	2	2	1	3	3	2	8	15	14	11	9	7	9	6	4	4	6	3	3	2	2	2		2.7	14.5	
8-Sep-07	1	3	1	0	5	2	3	1	2	3	3	3	4	2	1	6	5	5	3	3	3	2	3	2		2.4	6.2	
9-Sep-07	3	4	3	4	4	3	3	2	6	10	17	18	19	18	19	19	17	17	18	17	15	12	8	4		9.4	19.2	
10-Sep-07	2	3	4	4	4	1	1	1	1	3	6	6	6	7	9	12	16	16	15	12	10	9	6	9		4.9	16.2	
11-Sep-07	5	4	0	2	1	2	3	4	8	13	11	7	6	7	8	9	11	10	8	7	10	7	6	6		5.6	12.8	
12-Sep-07	6	5	4	4	4	4	5	5	3	3	4	4	4	7	7	6	8	5	3	2	4	4	4	3		3.6	7.6	
13-Sep-07	3	4	3	3	3	3	2	2	3	4	4	3	1	1	2	2	0	3	5	3	4	4	4	2		1.9	5.3	
14-Sep-07	1	1	2	2	3	3	3	3	2	3	4	5	14	12	11	9	8	3	3	1	3	1	1	3		1.5	13.6	
15-Sep-07	4	3	1	2	3	2	1	2	4	5	15	25	25	20	22	17	19	14	14	14	14	16	8	3		8.2	25.3	
16-Sep-07	8	8	8	8	5	6	8	15	17	9	8	10	8	19	24	25	22	24	24	22	21	16	14	5	2		12.6	24.7
17-Sep-07	4	6	5	5	8	14	8	13	19	25	28	29	32	26	22	23	21	19	18	14	7	6	12	8		13.7	31.5	
18-Sep-07	10	12	12	10	7	7	8	6	7	7	6	7	7	8	9	9	9	5	5	4	3	5	4	4		6.7	12.1	
19-Sep-07	2	2	2	4	4	4	5	5	6	10	9	9	8	8	7	7	8	10	12	14	13	7	5	5		4.6	14.3	
20-Sep-07	6	11	10	11	13	11	8	8	13	20	20	17	13	13	12	13	15	7	6	6	5	3	2	4		8.6	20.1	
21-Sep-07	2	3	2	4	3	2	2	3	4	5	6	9	19	29	30	26	26	25	13	8	3	6	3	6		7.8	29.5	
22-Sep-07	8	2	2	3	0	2	1	4	5	8	13	12	14	12	13	10	8	8	7	5	5	2	1	2		5.2	13.9	
23-Sep-07	4	3	7	6	6	6	6	6	8	9	8	6	9	6	4	1	3	6	5	4	3	2	3	2		4.4	9.1	
24-Sep-07	3	3	4	4	3	3	2	1	2	1	5	3	7	8	7	20	29	31	25	19	15	18	16	7		7.8	30.6	
25-Sep-07	8	20	20	17	17	23	17	15	16	21	22	22	22	24	26	29	26	24	21	14	15	20	27	27		20.4	28.6	
26-Sep-07	25	22	20	20	22	21	19	20	21	25	25	23	23	27	27	23	26	18	11	7	5	3	4	4		17.4	27.1	
27-Sep-07	3	5	6	6	6	6	7	8	11	10	5	2	5	7	13	18	18	17	15	11	7	4	2	1		4.9	18.2	
28-Sep-07	4	6	9	10	9	8	9	7	10	12	11	11	12	10	9	10	11	9	8	8	6	7	7	6		7.6	12.3	
29-Sep-07	3	4	5	4	4	3	4	4	8	13	14	11	10	10	9	5	5	5	7	5	4	3	3	3		4.9	13.6	
30-Sep-07	1	4	1	2	2	1	1	3	2	3	3	5	5	6	8	8	9	6	5	5	4	3	3	3		3.7	9.1	
1-hr Vector	0.8	1.6	2.0	1.7	2.0	2.4	1.9	2.1	3.8	5.3	6.7	7.9	8.8	9.6	10.6	11.0	10.6	9.3	7.8	5.8	4.5	3.9	2.8	1.2				
Hourly Max	25.1	22.1	20.0	19.8	21.9	22.5	19.0	20.2	20.5	24.8	28.0	29.1	31.5	29.3	29.5	28.6	28.7	30.6	25.2	20.7	16.0	19.7	27.2	26.9				

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	349.5	335.5	278.6	247.6	122.8	24.7	6.4	277 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		
1-Sep-07	80	155	88	79	90	108	177	164	218	231	277	275	265	284	281	274	275	276	268	263	298	324	98	87	274	W	
2-Sep-07	106	272	28	338	54	289	18	221	54	66	282	216	165	166	295	138	49	53	89	135	73	65	243	112	70	ENE	
3-Sep-07	71	159	287	73	86	188	199	147	184	218	213	197	225	215	218	222	163	160	133	113	75	308	319	8	192	SSW	
4-Sep-07	12	241	200	229	254	242	225	247	261	259	274	285	282	280	277	274	268	274	269	257	263	268	252	260	269	W	
5-Sep-07	237	103	255	277	269	267	242	250	267	267	258	274	272	272	268	264	265	275	267	257	262	269	268	279	266	W	
6-Sep-07	245	256	274	288	292	289	276	273	263	289	295	299	295	299	288	285	297	298	269	260	251	254	254	246	281	W	
7-Sep-07	174	77	62	70	289	71	73	79	303	305	314	336	21	16	32	52	328	16	200	133	149	102	75	98	14	NNE	
8-Sep-07	2	40	275	248	350	332	337	7	290	304	299	310	271	334	8	298	349	328	8	81	88	81	80	156	338	NNW	
9-Sep-07	146	144	176	182	153	169	171	212	238	265	282	275	283	287	263	276	275	271	256	259	265	268	259	229	263	W	
10-Sep-07	85	81	74	63	49	124	139	86	152	205	226	253	264	249	280	283	259	259	259	267	270	288	271	262	264	W	
11-Sep-07	251	267	74	87	94	249	314	354	344	21	15	334	290	308	289	280	320	317	306	333	346	338	334	336	327	NNW	
12-Sep-07	340	341	331	315	329	340	359	24	347	310	323	292	289	318	306	322	330	336	328	51	69	92	102	117	336	NNW	
13-Sep-07	123	163	137	143	131	96	96	179	195	197	199	245	134	331	225	311	304	116	145	111	105	105	93	161	147	SSE	
14-Sep-07	97	105	144	95	78	85	96	98	145	182	206	254	299	299	318	329	342	259	48	64	239	162	75	308	NW		
15-Sep-07	66	98	158	119	90	138	132	155	136	163	227	280	296	290	289	289	278	274	289	287	276	281	261	265	281	W	
16-Sep-07	300	293	312	313	301	233	266	276	274	280	278	266	270	279	269	262	275	270	260	260	263	270	325	45	274	W	
17-Sep-07	72	257	256	254	261	280	254	260	263	273	274	278	270	276	287	277	274	275	277	276	293	19	29	17	278	W	
18-Sep-07	19	25	13	9	358	3	12	4	8	3	357	342	347	335	8	9	6	327	291	298	303	295	318	2	357	N	
19-Sep-07	58	185	77	87	69	81	86	112	142	163	184	217	211	218	221	205	184	198	232	258	264	198	164	201	199	SSW	
20-Sep-07	260	262	261	280	278	265	275	277	280	289	296	307	315	10	324	284	290	2	11	15	345	2	324	59	300	WNW	
21-Sep-07	56	110	139	125	139	141	251	110	141	179	174	204	246	267	267	267	261	272	250	226	238	264	236	220	248	WSW	
22-Sep-07	220	230	238	182	108	79	79	337	301	334	319	326	335	350	343	347	351	344	330	312	339	31	314	37	331	NNW	
23-Sep-07	54	92	118	110	111	125	107	107	130	133	136	134	145	166	218	154	273	211	184	125	120	140	140	142	135	SE	
24-Sep-07	136	167	144	112	149	135	108	145	73	152	173	223	246	241	245	268	275	275	269	256	251	253	255	255	254	WSW	
25-Sep-07	240	261	259	267	278	282	286	282	279	279	288	287	278	276	280	264	274	273	268	262	272	271	269	270	274	W	
26-Sep-07	267	271	269	267	266	275	275	274	277	285	292	291	289	282	275	278	280	280	270	261	271	78	83	96	277	W	
27-Sep-07	119	87	109	118	136	121	128	125	121	148	116	165	171	194	222	234	235	237	255	236	246	201	203	239	192	SSW	
28-Sep-07	257	259	270	277	282	291	299	306	293	321	326	336	324	329	332	348	355	349	346	343	345	17	10	12	322	NW	
29-Sep-07	10	25	29	50	53	75	82	106	123	132	134	126	133	132	138	167	129	102	73	83	144	148	207	77	114	ESE	
30-Sep-07	112	68	178	56	66	136	102	48	246	114	101	107	104	138	133	134	120	104	112	125	121	93	127	81	112	ESE	
																										N	
Hourly Avg	294	262	270	285	289	274	281	276	267	273	280	282	280	283	280	275	279	279	267	264	274	280	276	278			

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	86.6	66.5	26.9	14.8	8.2	4.5	3.3

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

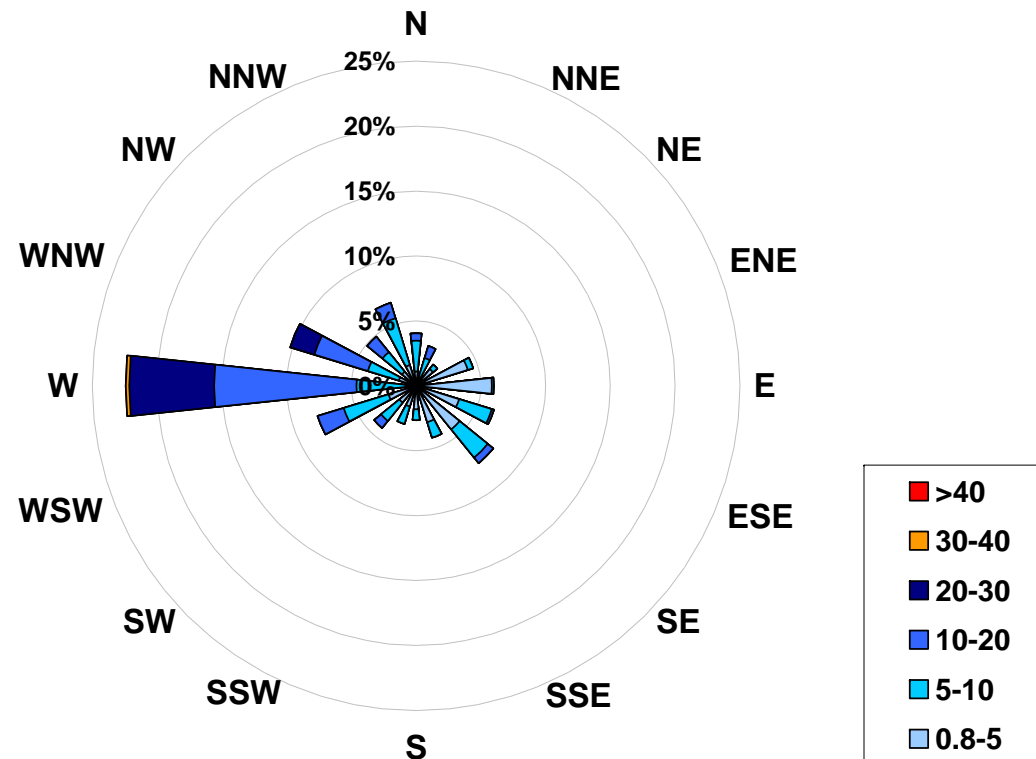
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Sep-07	18	26	17	10	14	20	29	51	15	25	14	12	12	11	10	12	10	9	11	8	14	15	31	24	
2-Sep-07	18	78	44	36	29	53	83	71	9	79	80	45	56	75	34	89	27	9	38	19	7	23	40	55	
3-Sep-07	7	80	55	8	33	26	29	61	11	25	27	25	45	48	58	21	27	7	10	8	17	46	17	17	
4-Sep-07	47	10	21	10	9	15	8	12	4	5	12	5	6	9	7	10	9	5	6	4	8	12	11	8	
5-Sep-07	22	88	80	49	19	13	12	12	5	5	11	9	8	8	7	9	10	7	7	4	6	10	8	7	
6-Sep-07	24	73	15	7	6	10	5	4	17	8	12	13	12	11	9	19	19	18	24	7	5	7	7	60	
7-Sep-07	58	66	42	80	80	8	15	59	27	7	10	20	22	25	41	14	48	76	15	57	45	64	78	58	
8-Sep-07	82	32	90	86	29	64	55	75	56	24	32	37	47	73	87	49	35	21	45	15	17	23	13	52	
9-Sep-07	38	24	20	20	16	21	21	53	19	11	8	10	10	9	12	11	7	10	3	4	3	3	10	24	
10-Sep-07	59	17	8	9	34	74	40	67	61	22	21	21	26	21	23	13	8	4	2	7	6	6	13	12	
11-Sep-07	35	56	16	24	45	61	56	50	14	7	11	20	22	8	9	7	9	7	5	17	9	9	14	7	
12-Sep-07	9	18	16	13	18	15	16	12	28	37	41	43	29	19	25	37	17	21	27	46	14	11	10	13	
13-Sep-07	9	15	12	9	8	18	30	19	25	17	18	54	76	71	58	60	89	21	7	19	16	6	16	46	
14-Sep-07	37	59	22	25	17	13	9	11	27	21	21	25	10	13	11	15	12	31	22	73	18	93	57	31	
15-Sep-07	11	17	48	35	14	33	54	20	40	17	38	18	6	12	7	11	8	4	3	5	6	8	21	40	
16-Sep-07	16	8	23	25	43	20	5	6	4	5	7	9	7	9	7	5	11	7	6	4	3	26	44	34	
17-Sep-07	20	36	16	34	6	4	12	5	9	6	6	8	6	10	8	7	6	5	7	4	25	27	8	8	
18-Sep-07	7	5	7	9	12	14	9	13	14	19	20	18	21	21	28	19	15	22	15	14	25	8	16	10	
19-Sep-07	29	45	36	6	13	15	6	14	12	13	18	18	22	26	26	21	13	10	7	17	30	9	15	15	
20-Sep-07	27	4	8	6	6	8	4	5	5	7	9	15	16	18	16	8	26	15	6	22	47	68	27		
21-Sep-07	67	35	41	16	28	43	56	21	38	23	16	13	10	6	7	6	7	14	8	6	33	14	67	25	
22-Sep-07	10	82	87	48	65	27	40	29	28	11	8	13	16	13	13	14	19	14	17	19	19	64	76	46	
23-Sep-07	11	29	7	5	7	6	6	9	8	7	9	15	15	31	34	93	27	31	28	16	39	38	19	38	
24-Sep-07	20	17	16	11	25	21	15	42	50	42	16	54	8	9	11	17	5	5	5	6	4	5	6	13	
25-Sep-07	22	3	3	4	4	4	4	6	5	6	5	8	8	8	9	7	8	7	5	5	7	4	4	5	
26-Sep-07	4	4	4	4	8	4	7	7	7	7	4	6	7	11	5	8	8	8	6	14	22	28	21	9	13
27-Sep-07	32	10	21	15	7	9	15	19	6	15	55	61	19	22	20	6	5	4	6	5	8	43	35	78	
28-Sep-07	21	16	3	10	8	15	10	6	7	7	11	12	15	15	21	21	16	15	11	8	14	22	9	9	
29-Sep-07	11	9	8	15	8	22	13	9	10	8	10	14	14	11	12	35	26	7	8	25	20	34	20	19	
30-Sep-07	55	28	49	16	20	53	46	66	65	29	28	15	34	26	14	16	12	9	21	12	16	6	27	10	

Daily Maximum
51.1
89.0
80.2
47.2
87.7
72.5
80.5
90.2
52.5
73.9
61.0
46.0
89.0
92.9
54.3
43.7
36.1
27.5
45.4
68.3
67.4
87.2
93.4
53.7
21.7
28.2
78.4
22.3
35.0
66.5

Hourly Max	82	88	90	86	80	74	83	75	65	79	80	61	76	75	87	93	89	76	45	73	45	93	78	78
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	267
5	to	10	224
10	to	20	166
20	to	30	61
30	to	40	2
	>	40	0
Total Non-Zero Values			720

PASZA – Portable – Spirit River Station

Monthly Summary Tables, Graphs and
Roses

PASZA - Portable-Spirit River Sulphur Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

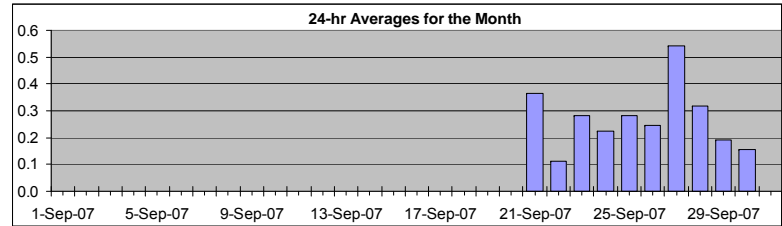
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

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

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Number of 1-hr Exceedances:		0			
Number of 24-hr Exceedances:		0			
Maximum 1-hr Average:	1.8	ppb	21-Sep	9:00	10:00
Maximum 24-hr Average:	0.5	ppb	27-Sep		



AIC Time:	12 hrs	Operational Time:	241 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.7	0.3	0.2	0.1	0.0	0.0	0.3 ppb	0.2 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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	23:00	0:00
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.4
21-Sep-07	0	0	1	A	1	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.8
22-Sep-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
23-Sep-07	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0.3	1.1	
24-Sep-07	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.7		
25-Sep-07	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.7		
26-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5		
27-Sep-07	0	0	1	1	1	1	1	0	1	0	0	1	1	1	1	0	0	1	0	0	0	A	0	0	0	0	0.5	1.5		
28-Sep-07	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.8		
29-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4		
30-Sep-07	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.9		
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Hourly Max	0.4	0.6	0.8	0.7	1.1	1.1	1.0	0.7	0.9	1.8	0.8	0.6	1.5	0.7	0.4	0.5	1.0	0.5	0.5	0.3	0.3	0.7	0.3	0.5						

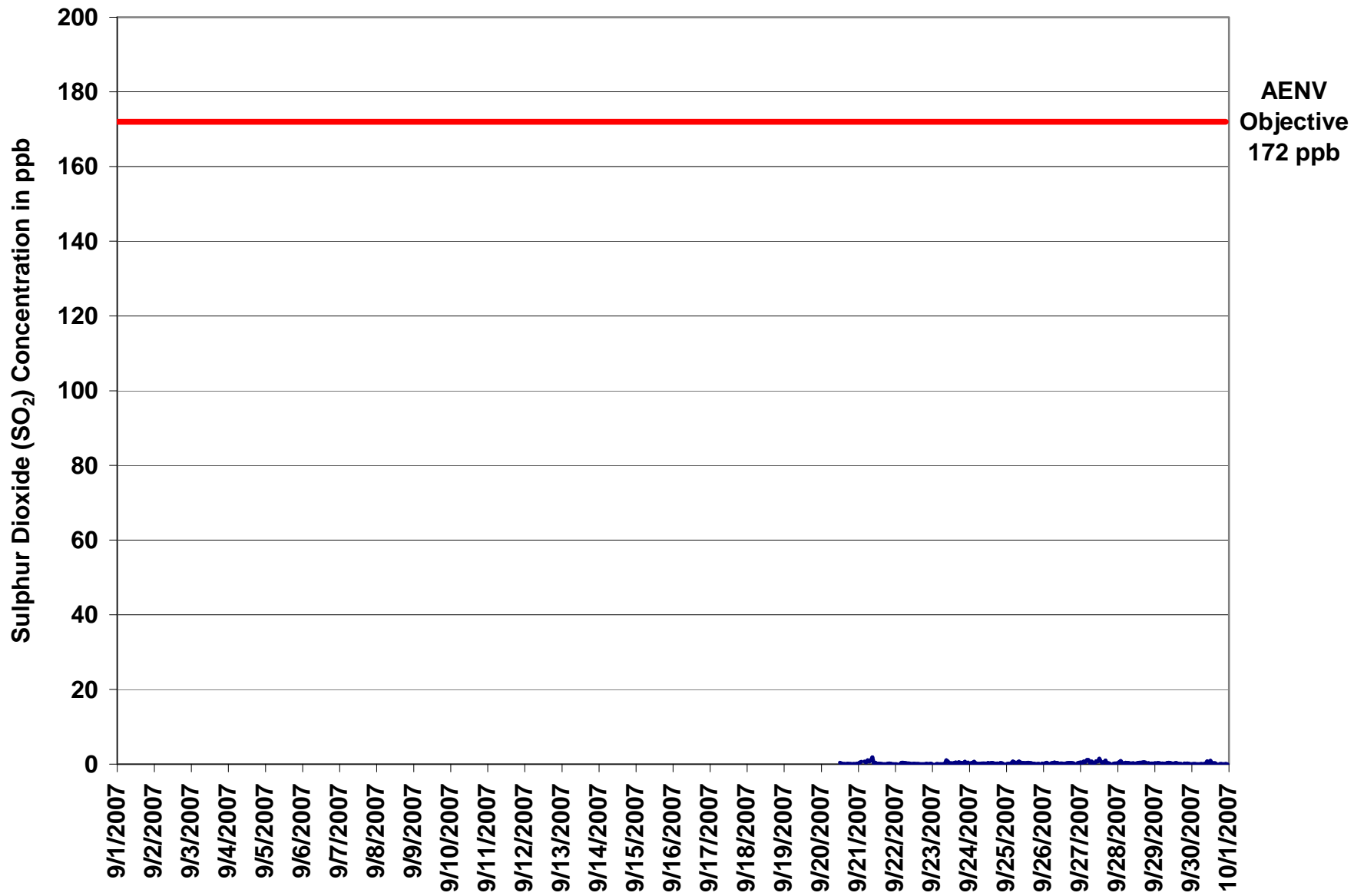


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

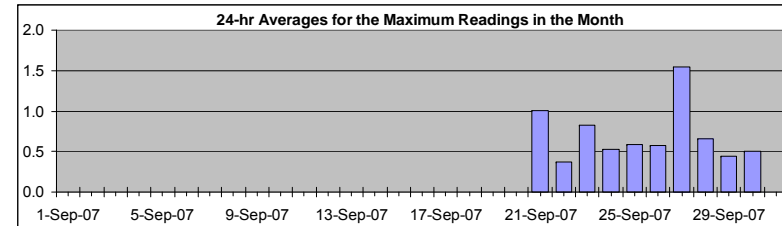
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	6.1	ppb	21-Sep	9:00 10:00
Maximum 24-hr Value:	1.5	ppb	27-Sep	



AIC Time:	12 hrs	Operational Time:	241 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	1.8	0.8	0.4	0.3	0.3	0.2	0.7 ppb	0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	C	C	A	1	0	0	0	0	0	0	0	0	0	0	0	0	N	0.7
21-Sep-07	1	1	1	A	1	1	1	1	4	6	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1.0	6.1
22-Sep-07	0	0	A	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
23-Sep-07	0	A	0	0	0	0	0	0	0	2	2	0	0	0	1	1	1	2	1	1	1	3	0	1	0.8	3.3
24-Sep-07	A	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	A	0.5	1.3	
25-Sep-07	0	0	0	1	1	1	0	1	1	1	0	1	0	0	1	1	0	0	0	0	0	0	A	1	0.6	1.2
26-Sep-07	0	1	1	0	0	1	1	1	1	1	0	0	0	0	1	0	1	1	0	0	0	A	1	0.6	0.9	
27-Sep-07	1	1	3	1	4	3	1	2	1	1	1	1	4	2	1	2	3	1	1	0	A	0	0	0	1.5	4.3
28-Sep-07	1	1	1	1	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	A	0	0	0	0	0.7	1.3
29-Sep-07	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	A	0	1	0	0	0	0.4	0.8
30-Sep-07	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0	1	0	A	0	0	0	0	0	0	0.5	1.6
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	0.9	1.3	3.3	1.3	3.8	2.8	1.3	1.8	3.7	6.1	1.8	1.3	4.3	2.3	1.0	2.3	3.3	1.8	1.3	0.8	0.9	3.3	0.9	1.3		

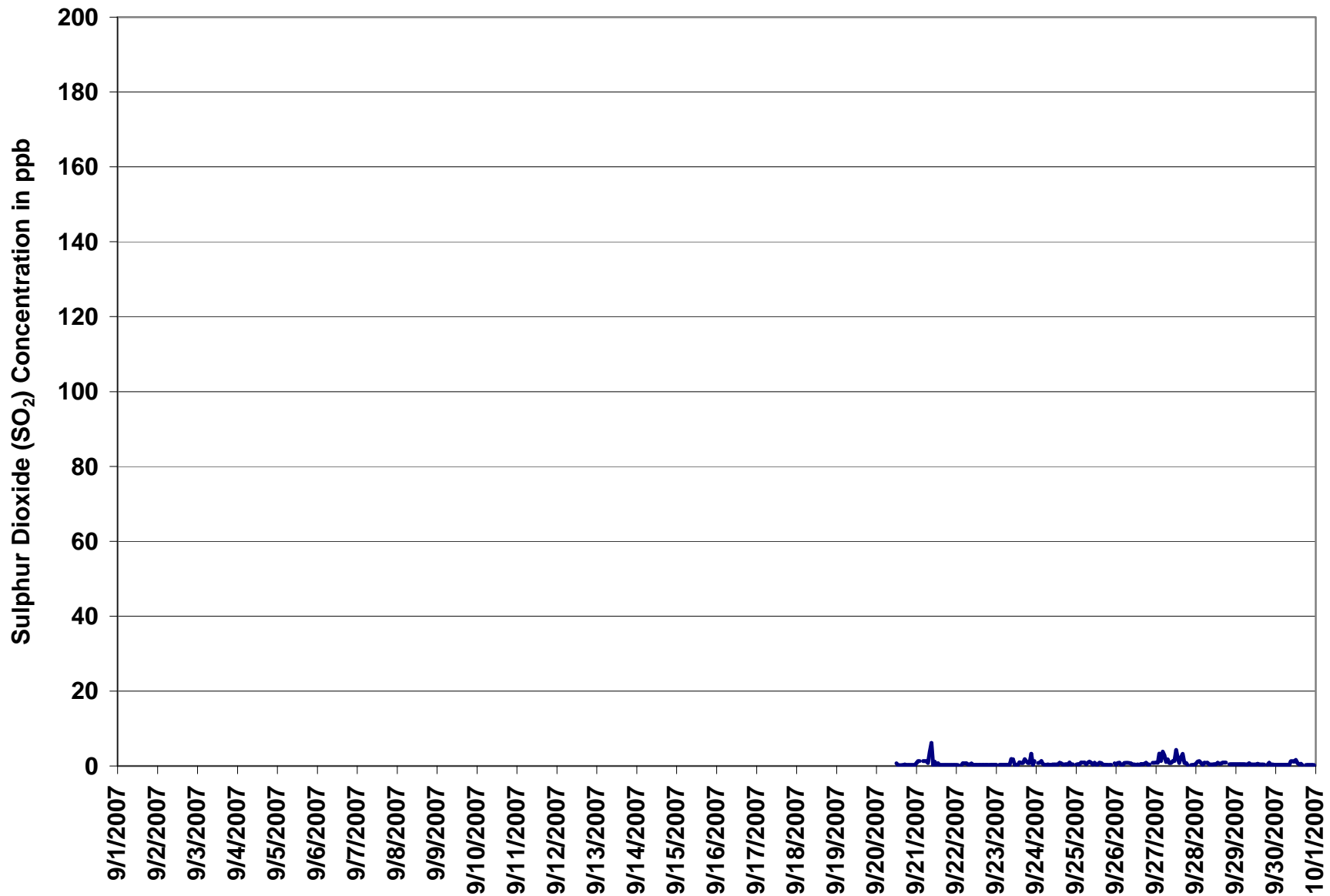
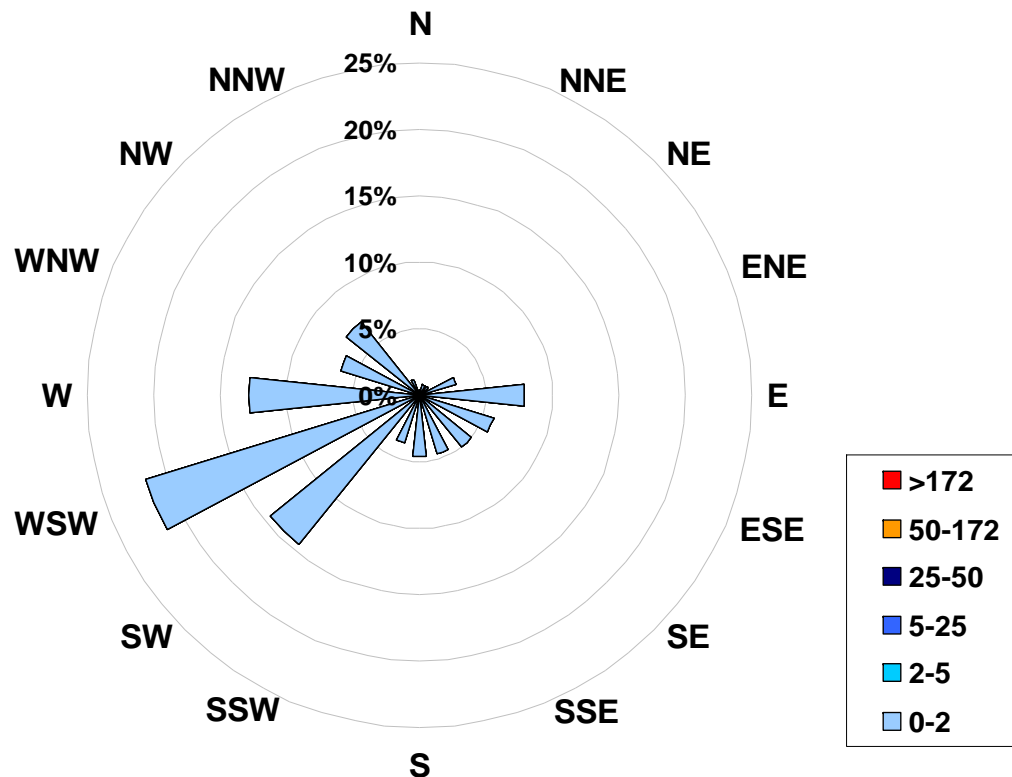


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		241
2	to 5		0
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			241

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

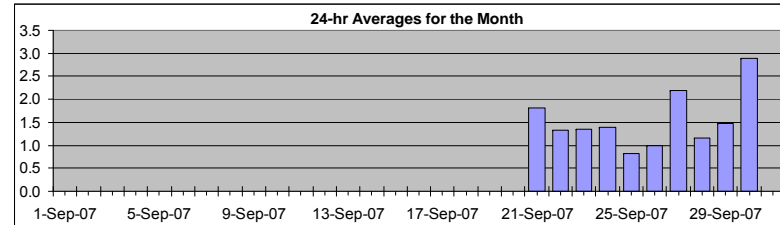
Nitrogen Dioxide (NO₂)

Monitoring Dates: September 1, 2007 to October 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:	5.8 ppb 30-Sep 23:00 0:00
Maximum 24-hr Average:	2.9 ppb 30-Sep



AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.9	4.0	2.1	1.2	0.7	0.3	0.2	1.5 ppb	1.2 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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	2	1	1	1	1	1	1	1	1	1	1	1	1	N	1.6
21-Sep-07	1	1	2	A	4	4	5	4	4	4	3	2	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1.8	4.6
22-Sep-07	1	A	A	3	2	2	3	3	3	2	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1.3	3.2
23-Sep-07	A	A	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	2	5	4	2	2	A		1.4	4.6	
24-Sep-07	4	3	3	2	2	2	2	2	1	1	1	1	1	1	1	0	0	1	1	1	1	1	A	A	2		1.4	4.0	
25-Sep-07	2	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	A	A	2	1			0.8	1.8	
26-Sep-07	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	3	A	4	2	2	2			1.0	4.1	
27-Sep-07	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	6	A	2	1	1	1	1			2.2	5.7	
28-Sep-07	2	2	3	2	1	1	2	1	1	0	0	0	0	1	0	1	A	A	3	1	1	1	1	1			1.2	2.9	
29-Sep-07	1	1	1	1	1	2	2	2	2	2	0	0	0	0	0	A	3	2	2	2	3	2	2	3			1.5	2.9	
30-Sep-07	3	5	3	3	2	4	4	3	2	3	4	3	1	1	A	2	2	2	1	2	3	4	4	6			2.9	5.8	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Hourly Max	4.0	5.0	2.8	2.8	4.1	4.0	4.6	3.9	3.6	4.2	4.4	2.8	1.8	1.7	2.1	2.3	2.6	5.7	2.9	4.6	4.1	4.3	4.4	5.8					

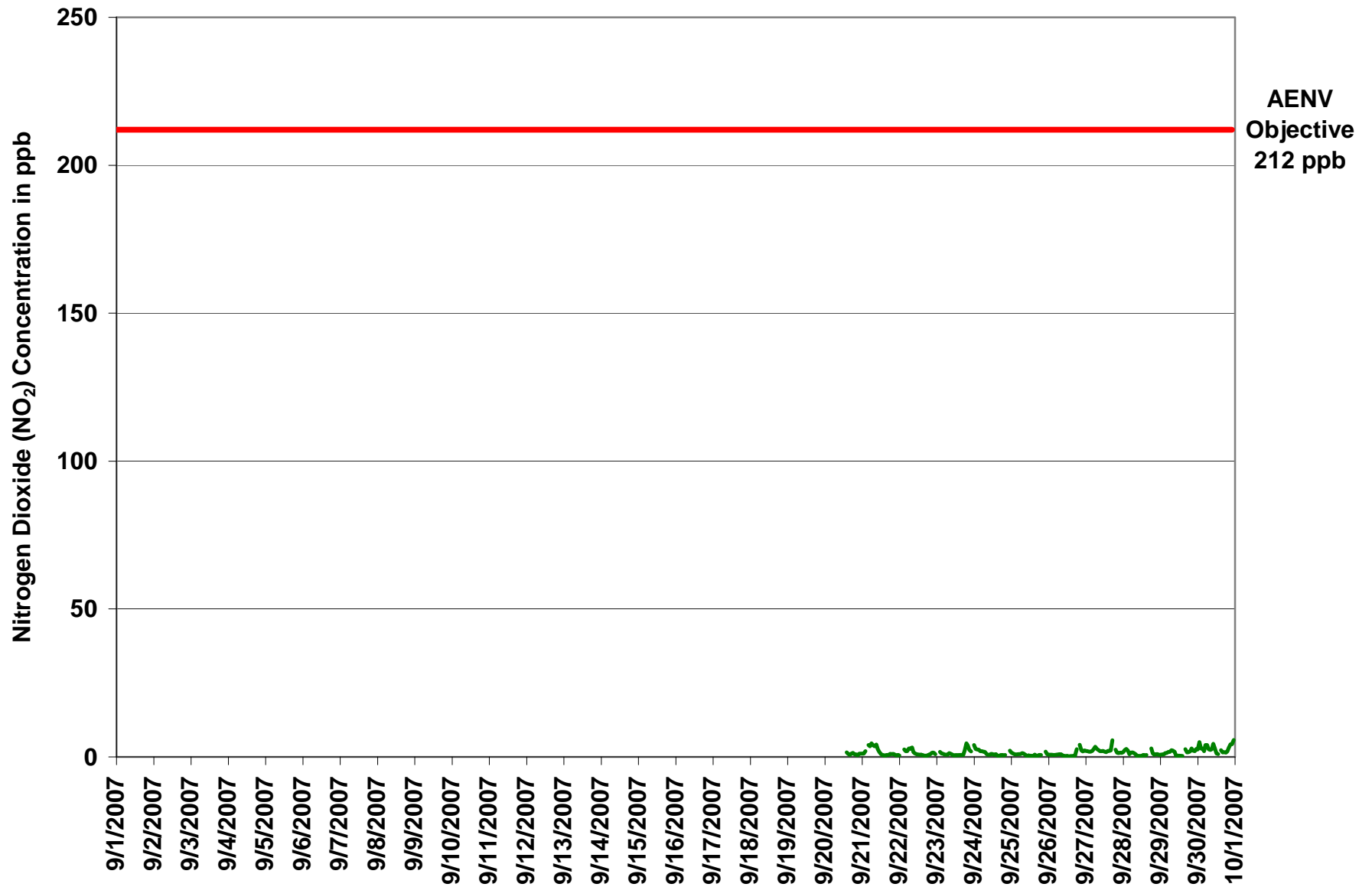


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

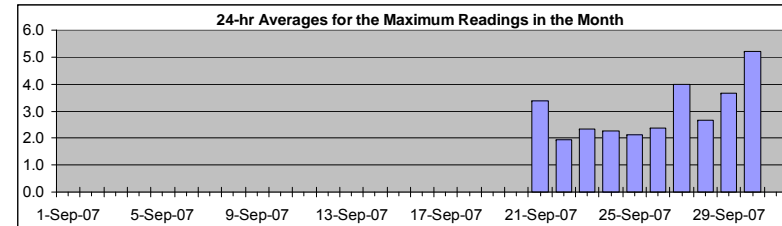
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	24.5	ppb	29-Sep	20:00 21:00
Maximum 24-hr Value:	5.2	ppb	30-Sep	



AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.6	7.2	3.7	2.3	1.4	0.7	0.5	2.9 ppb	2.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	2	1	1	2	2	1	2	1	2	2	N	2.3	
21-Sep-07	2	2	2	A	6	6	6	5	7	8	5	4	2	2	2	3	5	2	2	2	1	1	1	1	3.4	7.8	
22-Sep-07	1	A	A	3	2	3	4	4	4	3	2	1	1	1	1	1	1	1	1	1	2	2	2	2	1.9	4.5	
23-Sep-07	A	A	2	1	1	1	1	1	3	2	1	1	1	1	2	3	2	1	7	7	5	3	2	A	2.3	7.3	
24-Sep-07	7	3	3	3	2	2	3	7	2	1	1	2	1	1	1	1	2	1	1	1	A	A	A	3	2.3	7.1	
25-Sep-07	2	2	1	1	1	2	2	2	3	1	0	3	3	4	1	5	1	2	2	2	A	A	A	4	2.1	5.5	
26-Sep-07	1	1	1	1	1	2	1	3	5	1	1	1	2	0	1	2	3	1	9	A	7	4	3	3	2.4	8.7	
27-Sep-07	3	2	2	2	2	4	7	4	6	3	4	4	3	2	3	4	4	12	A	4	2	2	7	2	4.0	12.1	
28-Sep-07	2	3	3	3	1	2	2	2	1	1	1	2	2	4	2	3	A	A	11	5	1	2	2	1	2.7	10.7	
29-Sep-07	1	1	1	2	2	2	6	4	8	2	1	1	1	1	1	A	4	2	2	2	25	3	4	6	3.7	24.5	
30-Sep-07	5	6	5	4	4	5	7	4	5	5	6	4	6	1	A	3	2	3	2	17	6	5	5	8	5.2	16.9	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	6.5	6.5	4.8	3.7	6.2	6.0	7.5	7.1	8.1	7.8	6.4	4.2	6.5	4.2	3.5	5.5	3.7	12.1	10.7	16.9	24.5	5.3	6.9	8.3			

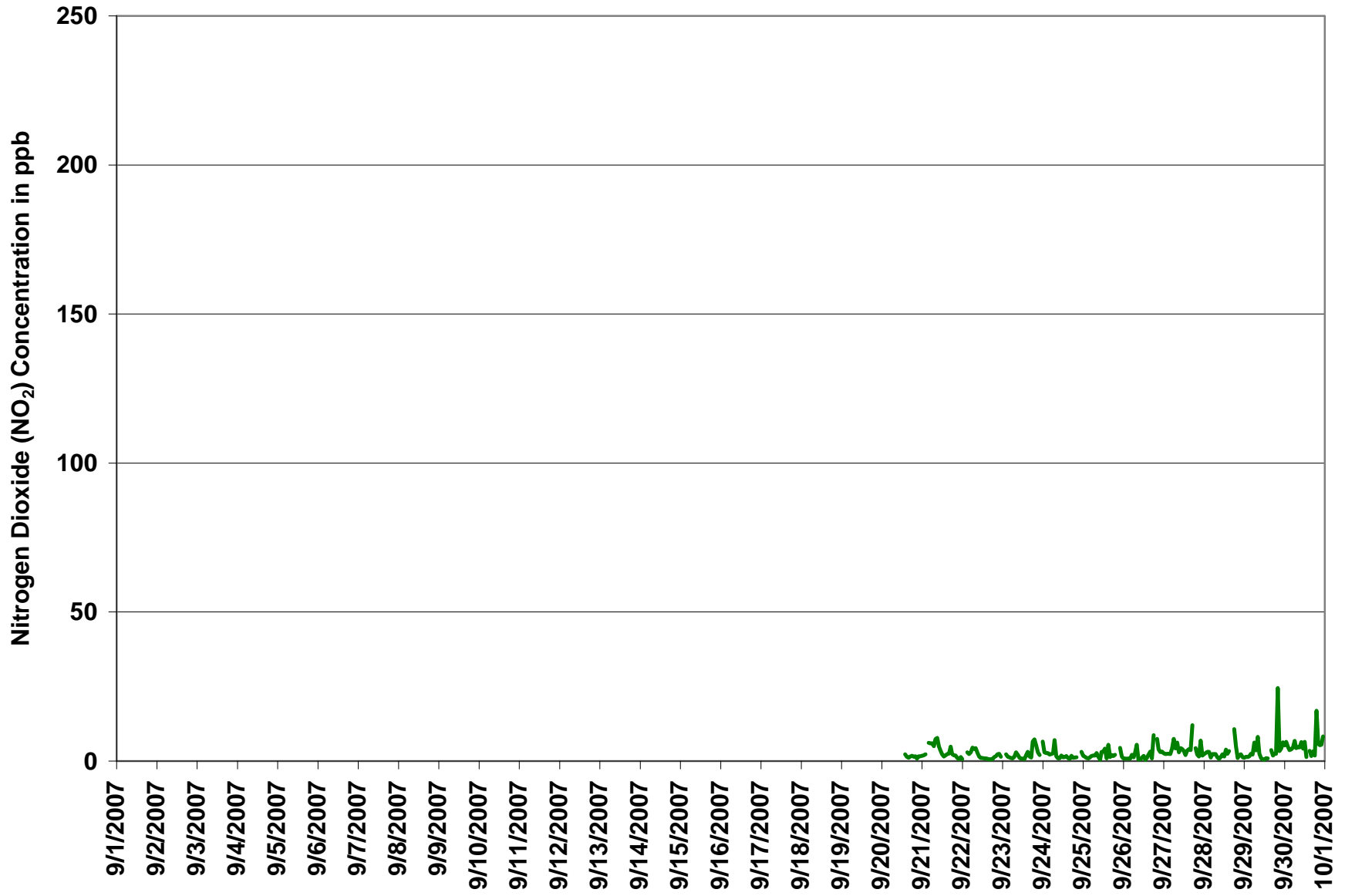
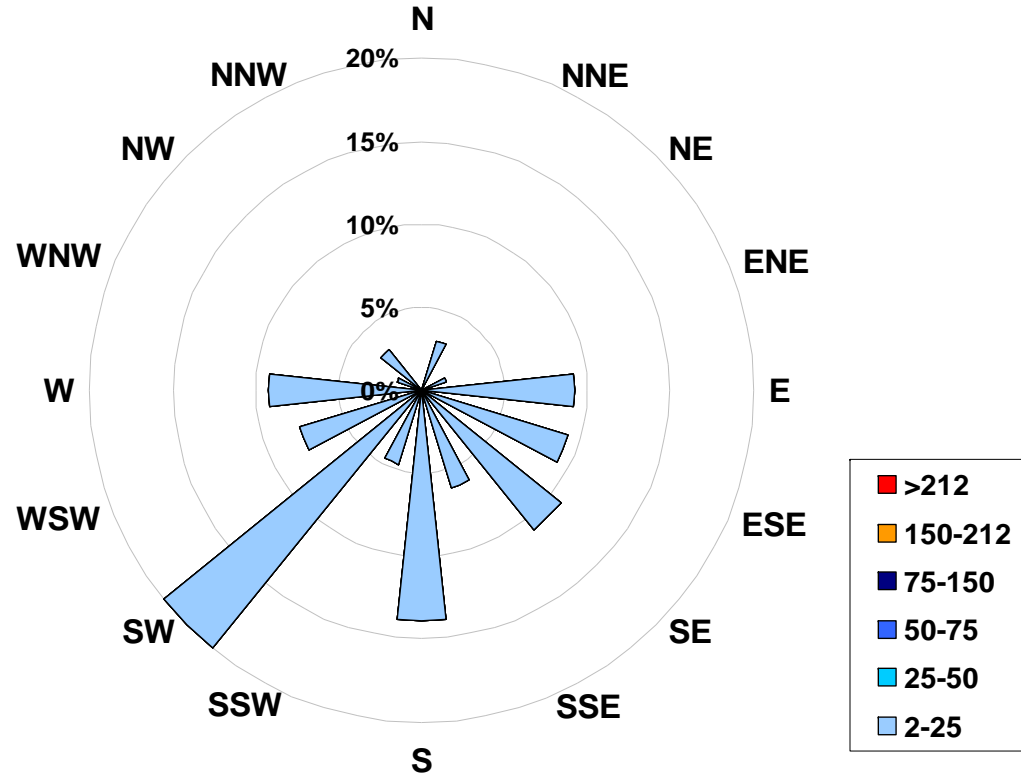


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for September 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	<	25	234
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			234

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

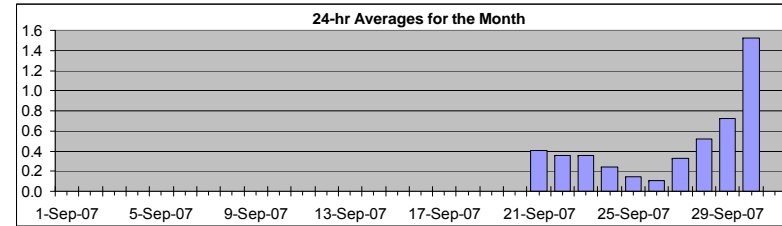
Monitoring Dates: September 1, 2007 to October 1, 2007

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	4.5	ppb	30-Sep	10:00 11:00
Maximum 24-hr Average:	1.5	ppb	30-Sep	



AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	1.9	0.5	0.2	0.1	0.0	0.0	0.5 ppb	0.2 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		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	0.3
21-Sep-07	0	0	0	A	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
22-Sep-07	0	A	A	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
23-Sep-07	A	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	1.1
24-Sep-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0.2	0.6
25-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.1	0.5
26-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.3
27-Sep-07	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	2	A	0	0	0	0	0	0.3	1.7
28-Sep-07	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	A	2	0	0	0	0	0.5	1.8
29-Sep-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	0	0	0	1	2	1	2	2	0.7	1.9
30-Sep-07	2	3	2	2	2	2	2	2	2	3	5	3	1	0	A	0	0	0	0	3	0	0	0	1	1.5	4.5
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Hourly Max	2.0	2.7	2.0	2.1	1.7	2.2	2.0	1.9	2.1	2.8	4.5	3.1	1.0	1.2	0.8	0.9	0.3	1.7	1.8	2.6	1.8	1.4	1.5	1.9		

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

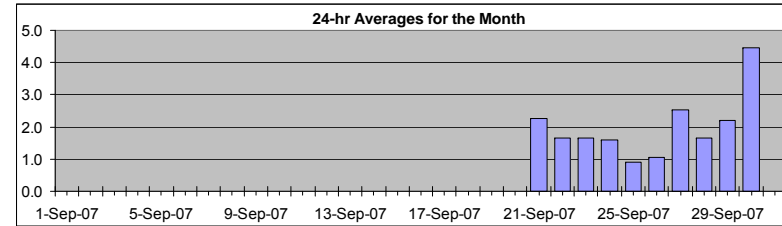
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

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

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

Summary				
Maximum 1-hr Average:	9.0	ppb	30-Sep	10:00 11:00
Maximum 24-hr Average:	4.4	ppb	30-Sep	



AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.1	4.9	2.5	1.5	0.9	0.5	0.3	2.0 ppb	1.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	2	1	1	1	2	1	1	1	1	1	1	2	N	1.8	
21-Sep-07	2	1	2	A	4	5	5	5	4	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.3	5.4
22-Sep-07	1	A	A	3	2	2	3	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.7	3.8
23-Sep-07	A	A	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	3	5	4	3	2	A			1.7	5.1	
24-Sep-07	4	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	A	2		1.6	4.2	
25-Sep-07	2	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	A	A	2	1		0.9	1.9	
26-Sep-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	3	A	4	2	2	2		1.1	4.4	
27-Sep-07	2	2	2	2	2	3	4	3	3	2	2	3	2	2	3	3	3	7	A	3	2	1	2	1			2.5	7.4	
28-Sep-07	2	2	3	2	1	2	2	2	2	1	1	1	1	2	1	2	A	A	5	2	1	1	1	1			1.7	4.7	
29-Sep-07	1	1	1	1	2	2	2	3	3	3	1	1	1	1	1	A	3	2	2	3	5	4	4	5			2.2	4.8	
30-Sep-07	5	8	5	5	4	6	6	5	4	5	9	6	2	1	A	3	2	2	2	5	4	5	5	6			4.4	9.0	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			
Hourly Max	4.5	7.7	4.9	4.9	4.5	6.2	6.0	4.7	4.5	5.5	9.0	5.9	2.3	2.2	2.7	2.6	3.0	7.4	4.7	5.1	4.8	4.6	4.8	6.4					

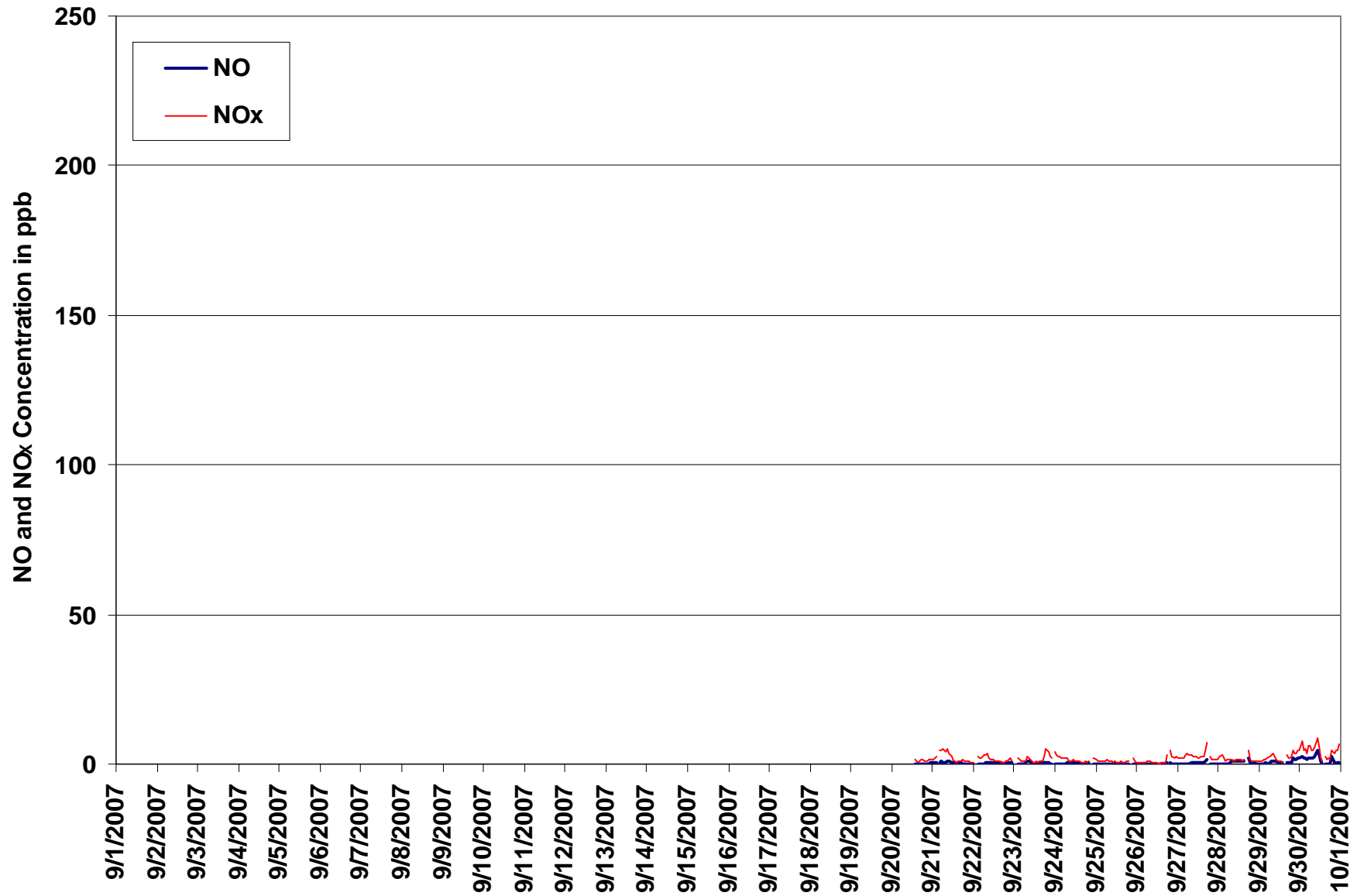


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

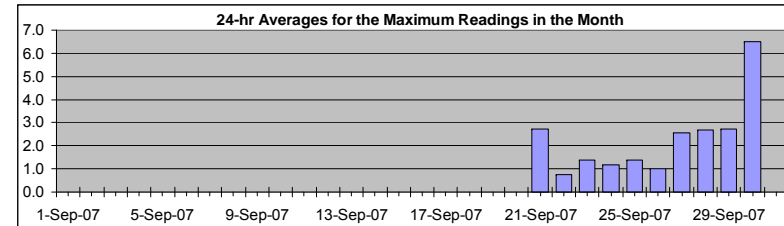
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	84.1	ppb	30-Sep	19:00 20:00
Maximum 24-hr Value:	6.5	ppb	30-Sep	

AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.4	6.5	2.6	0.9	0.3	0.1	0.1	2.2 ppb	0.9 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	0	0	0	0	0	0	1	0	1	0	N	0.6	
21-Sep-07	0	0	1	A	1	7	11	2	3	3	4	2	1	2	2	13	1	5	1	1	2	1	0	1	2.7	12.6	
22-Sep-07	0	A	A	0	0	0	0	4	1	1	1	1	1	1	0	0	0	0	0	1	0	1	2	0	0.8	3.7	
23-Sep-07	A	A	0	0	0	0	0	1	3	4	1	1	0	0	2	5	1	1	3	3	2	0	0	A	1.4	4.7	
24-Sep-07	0	0	0	0	0	0	1	4	1	1	1	2	1	4	2	1	1	2	1	1	2	A	A	1	1.2	4.4	
25-Sep-07	0	0	0	0	0	1	1	3	2	1	0	3	3	5	0	4	3	2	1	1	A	A	0	1	1.4	4.6	
26-Sep-07	0	0	0	0	0	1	0	4	2	0	0	0	1	0	0	1	2	0	3	A	5	0	2	1	1.0	4.6	
27-Sep-07	1	0	0	0	0	2	4	1	5	2	4	5	2	1	1	3	20	A	2	0	0	5	0	2.5	19.8		
28-Sep-07	0	1	0	0	0	0	0	2	1	3	2	7	5	6	5	5	A	A	12	3	1	4	1	0	2.7	11.5	
29-Sep-07	0	0	0	0	2	0	10	3	9	2	4	1	1	3	1	A	1	0	1	1	15	2	2	3	2.7	15.3	
30-Sep-07	3	4	3	2	3	4	7	3	3	7	7	5	5	0	A	0	0	0	0	84	3	0	1	3	6.5	84.1	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	3.0	4.4	2.9	2.5	2.8	7.3	11.4	4.4	8.5	6.5	7.2	7.4	5.3	6.4	4.8	12.6	3.0	19.8	11.5	84.1	15.3	3.8	4.6	2.8			

Station: Portable-Spirit River
 Station Owner: PASZA

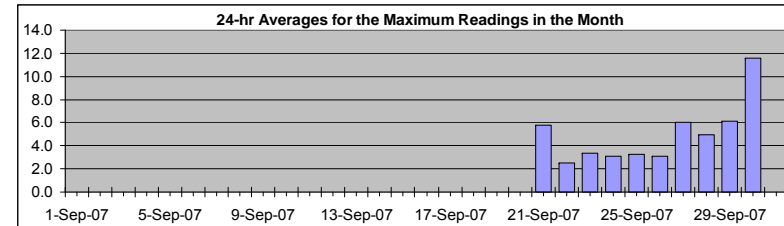
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	100.9	ppb	30-Sep	19:00 20:00
Maximum 24-hr Value:	11.5	ppb	30-Sep	



AIC Time:	17 hrs	Operational Time:	234 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.2	11.5	6.0	3.1	1.9	0.9	0.7	4.9 ppb	3.1 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-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	C	C	C	C	A	3	2	1	2	2	2	2	1	2	2	N	2.5	
21-Sep-07	2	2	3	A	7	12	16	7	10	11	8	5	3	4	3	11	4	9	3	3	3	2	1	2	5.8	16.1	
22-Sep-07	1	A	A	3	3	3	5	7	5	4	2	2	2	1	1	1	1	1	1	2	2	3	4	2	2.5	7.5	
23-Sep-07	A	A	3	2	1	1	1	2	6	6	2	1	1	1	4	7	3	2	7	10	6	3	2	A	3.3	10.1	
24-Sep-07	7	3	3	3	2	3	4	10	3	1	2	3	2	3	3	2	1	3	2	2	3	A	A	A	4	3.1	10.1
25-Sep-07	2	1	1	1	1	2	2	4	4	2	1	6	6	8	1	9	2	4	3	3	A	A	A	5	2	3.3	9.4
26-Sep-07	1	1	1	1	1	3	2	7	7	1	1	1	3	1	1	3	5	1	11	A	8	4	5	4	3.1	11.5	
27-Sep-07	3	2	2	2	3	5	11	6	11	4	8	7	5	3	5	5	5	28	A	6	2	2	11	2	6.0	28.1	
28-Sep-07	2	3	3	3	1	3	3	5	2	2	3	9	6	10	7	9	A	A	19	8	2	5	2	1	5.0	19.1	
29-Sep-07	1	2	1	2	4	2	16	7	17	4	3	2	1	4	2	A	4	2	3	3	39	5	6	9	6.1	39.2	
30-Sep-07	8	11	7	6	7	8	13	7	8	11	13	9	12	2	A	4	2	4	2	101	9	6	6	11	11.5	100.9	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	8.2	10.6	7.4	5.9	6.6	11.8	16.1	10.1	16.6	11.1	12.8	9.4	11.7	10.2	7.2	11.5	5.3	28.1	19.1	100.9	39.2	5.9	11.3	10.8			

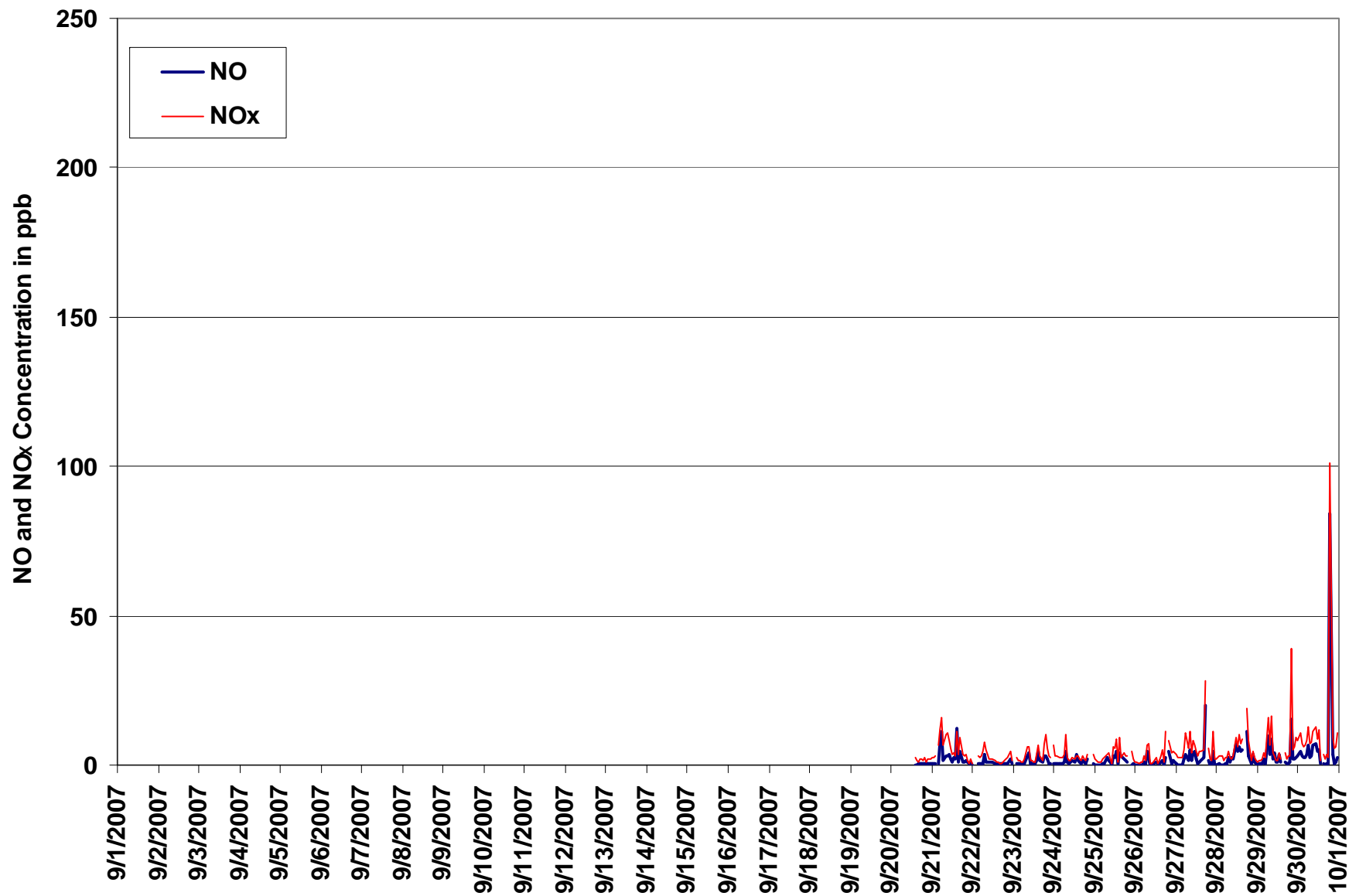


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

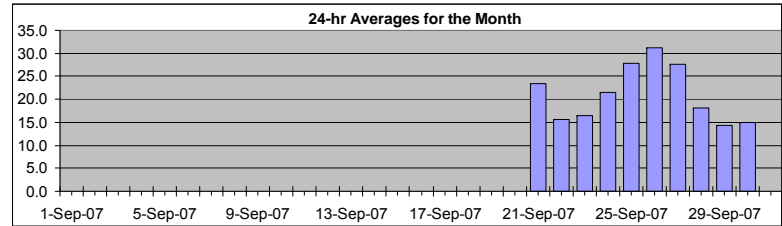
Ozone (O₃)

Monitoring Dates: September 1, 2007 to October 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:	37.3 ppb	21-Sep	14:00 15:00
Maximum 24-hr Average:	31.2 ppb	26-Sep	



AIC Time:	12 hrs	Operational Time:	238 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.3	34.6	28.3	21.1	14.2	8.2	5.2	21.1 ppb	21.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	C	C	A	28	26	23	21	20	20	18	15	12	N	27.8
21-Sep-07	12	13	11	A	11	7	8	8	14	15	20	30	33	35	37	36	36	34	31	30	29	29	28	23.3	37.3	
22-Sep-07	27	26	A	24	22	21	18	16	13	12	13	12	10	11	13	13	15	16	14	15	14	10	9	12	15.5	27.3
23-Sep-07	13	A	14	15	12	12	11	11	11	13	18	21	22	22	26	25	24	24	18	12	12	13	14	15	16.5	26.0
24-Sep-07	A	15	15	16	17	16	15	19	22	23	24	24	25	26	24	25	25	24	23	24	25	24	A	21.6	25.8	
25-Sep-07	23	23	24	24	24	24	24	23	24	26	28	29	30	32	33	32	32	32	30	32	30	30	A	32	27.9	32.7
26-Sep-07	33	32	32	31	30	30	29	31	32	32	33	35	35	35	36	36	36	34	27	23	25	A	27	26	31.2	36.4
27-Sep-07	26	26	25	21	24	27	24	20	19	22	28	29	31	31	29	29	31	22	30	37	A	36	35	35	27.7	36.7
28-Sep-07	31	27	24	21	21	18	20	17	11	11	12	14	15	17	18	19	19	18	17	A	18	15	16	13	18.1	31.1
29-Sep-07	13	13	12	10	10	9	8	5	12	14	17	18	19	20	21	20	20	19	A	15	15	14	12	10	14.3	21.5
30-Sep-07	9	5	6	5	6	5	5	6	8	9	8	17	29	29	30	31	30	A	23	21	18	16	13	12	14.9	31.1
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Hourly Max	32.7	32.2	32.1	31.4	30.5	30.1	29.2	30.5	31.6	32.0	32.7	34.6	34.5	35.3	37.3	36.4	35.8	34.4	31.0	36.7	30.5	36.1	34.7	34.6		

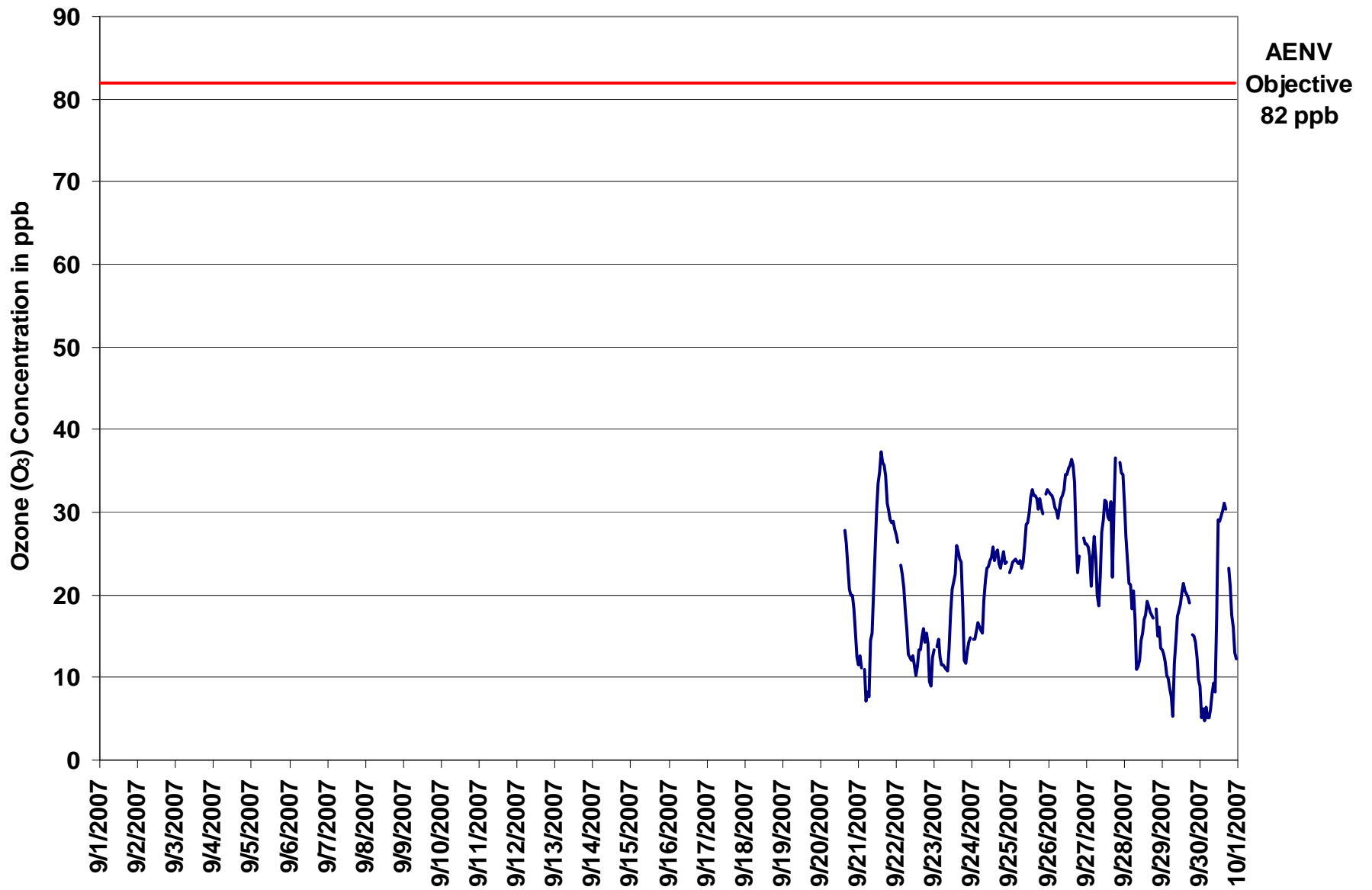


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

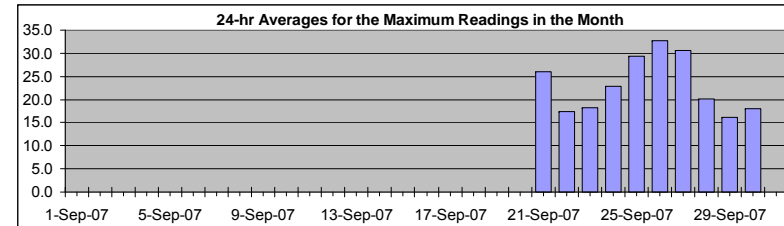
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

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

Summary

Maximum 1-hr Value:	39.8	ppb	27-Sep	19:00 20:00
Maximum 24-hr Value:	32.8	ppb	26-Sep	



AIC Time:	12 hrs	Operational Time:	238 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.2	36.1	29.7	23.3	16.2	11.0	8.1	23.1 ppb	23.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	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	
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	C	C	A	29	27	25	22	21	21	20	19	16		N	29.1	
21-Sep-07	13	14	14	A	16	9	12	13	18	19	26	33	35	38	38	37	37	36	33	33	30	30	30	30		25.9	38.3	
22-Sep-07	28	27	A	24	23	22	19	17	14	14	14	13	11	13	15	15	16	18	17	19	16	12	17	14		17.5	27.9	
23-Sep-07	15	A	15	17	14	13	13	12	12	15	20	22	22	24	29	28	26	25	22	14	13	14	16	16		18.1	29.1	
24-Sep-07	A	16	16	17	18	17	19	21	24	24	24	26	26	27	25	26	27	25	24	26	26	25	25	A		22.9	27.4	
25-Sep-07	23	24	24	25	24	25	26	24	26	29	30	30	32	33	34	34	33	33	32	34	33	32	A	34		29.3	34.1	
26-Sep-07	34	33	33	32	31	31	30	32	32	33	34	37	36	36	37	38	38	35	33	25	26	A	28	28		32.8	38.1	
27-Sep-07	27	27	27	24	27	28	28	22	22	29	29	33	33	33	32	34	34	29	35	40	A	37	36	36		30.5	39.8	
28-Sep-07	34	29	27	23	23	22	24	22	12	12	14	16	16	19	20	21	20	19	19	A	19	18	17	15		20.1	34.3	
29-Sep-07	15	14	14	12	11	10	11	11	15	17	19	19	20	23	23	22	21	20	A	17	17	16	15	12		16.2	23.0	
30-Sep-07	14	11	10	8	9	7	7	9	9	11	10	30	30	30	31	32	33	A	26	23	22	19	17	17		18.0	32.6	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			
Hourly Max	34.3	32.8	33.2	32.2	31.3	31.2	30.3	31.8	32.3	32.8	33.7	37.1	35.7	38.3	38.3	38.1	37.6	36.3	35.3	39.8	33.2	37.3	35.8	36.1				

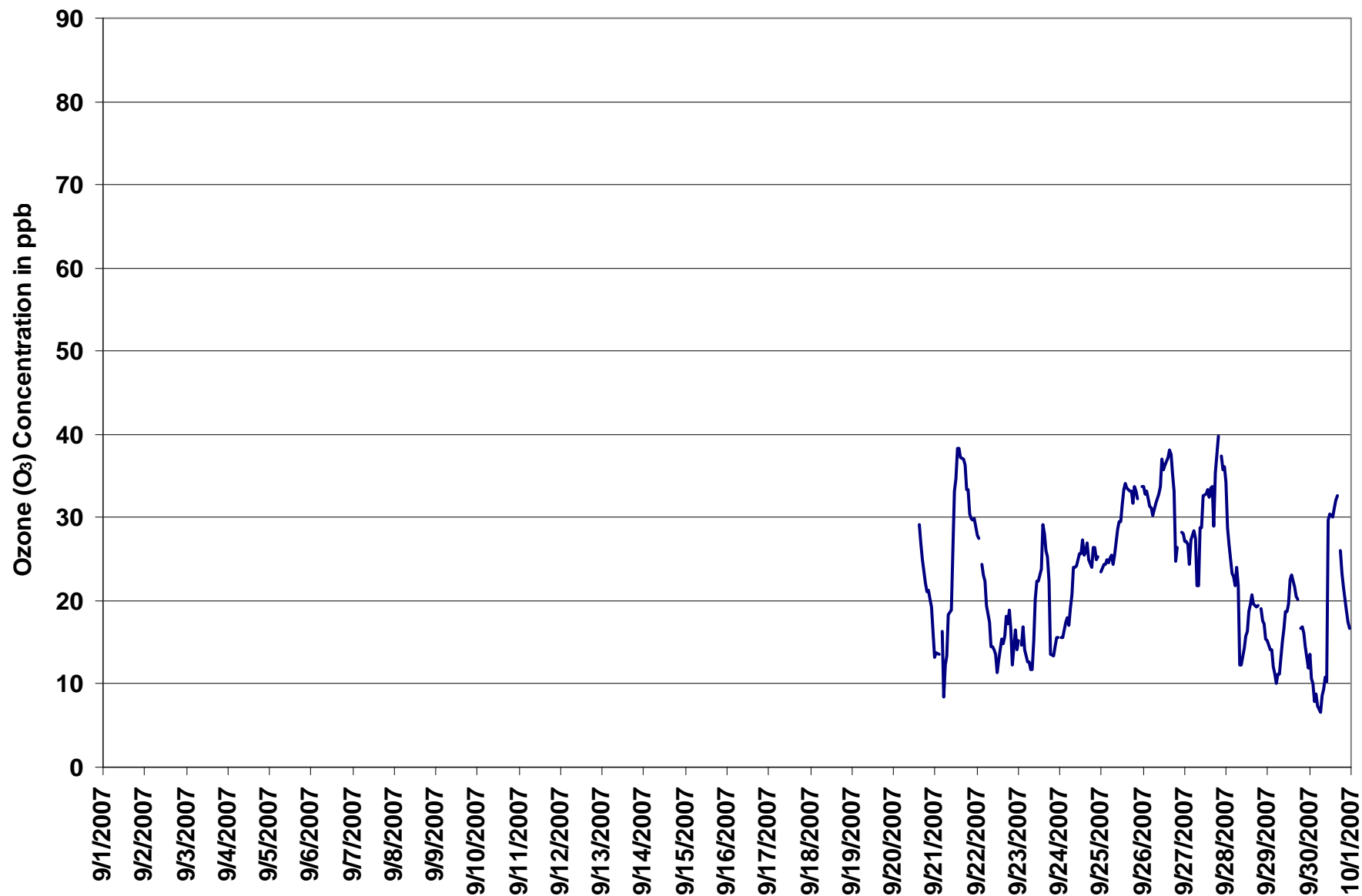
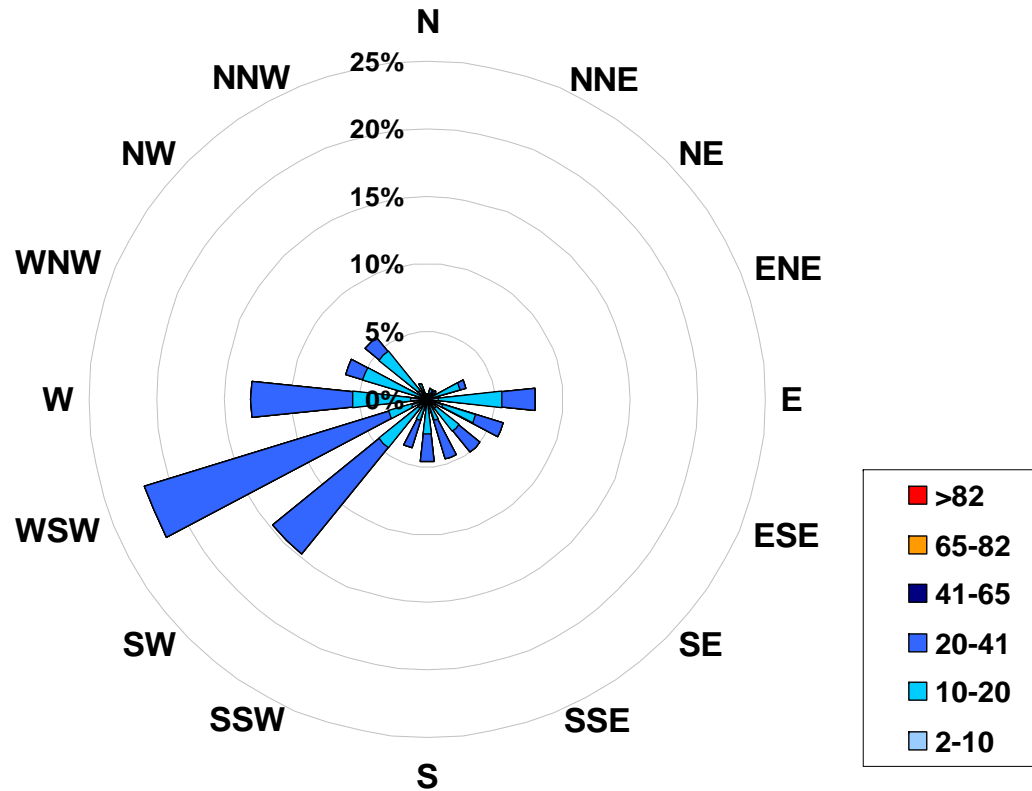


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for September 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	21
10	to	20	88
20	to	41	129
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			238

PASZA - Portable-Spirit River Ozone Eight Hour Average Summary

Station: Portable-Spirit River
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

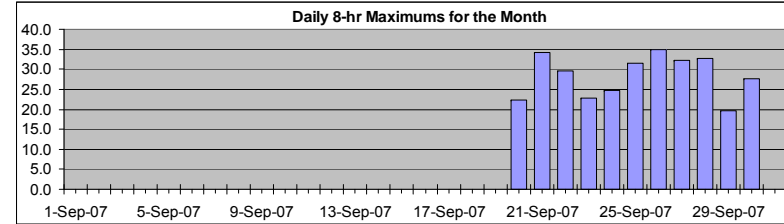
Ozone (O₃)

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

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:		0
Maximum 8-hr Average:	34.8 ppb	26-Sep 17:00 18:00

Percentile							
99	95	75	50	25	5	1	
34.1	32.5	27.4	21.5	14.4	10.0	6.4	



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

Day	Mountain Standard Time																								Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
2-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
3-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
4-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
5-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
6-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
7-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
8-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
9-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
10-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
11-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
12-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
13-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
14-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
15-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
16-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
17-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
18-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
19-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
20-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	22.3
21-Sep-07	18	16	15	14	13	12	11	10	10	11	12	14	17	21	24	28	30	33	34	34	34	33	32	31		34.1
22-Sep-07	30	29	28	27	26	25	24	22	20	18	17	16	14	13	12	12	13	13	14	14	14	14	13	13		29.7
23-Sep-07	13	13	13	12	12	12	13	13	12	12	13	14	15	16	18	20	21	23	23	22	21	19	18	17		22.9
24-Sep-07	15	14	14	14	15	15	15	16	17	18	19	20	21	22	23	24	24	25	25	25	25	24	24	24		24.6
25-Sep-07	24	24	24	24	24	24	24	24	24	24	25	25	26	27	28	29	30	31	31	32	32	31	31	31		31.6
26-Sep-07	31	31	32	32	32	32	31	31	31	31	31	31	32	33	33	34	35	35	34	33	31	31	30	28		34.8
27-Sep-07	27	26	25	25	25	25	25	24	23	23	23	24	25	26	26	27	29	29	29	30	30	31	31	32		32.2
28-Sep-07	32	33	32	30	29	27	25	23	20	18	17	16	15	15	14	15	16	17	17	18	18	18	17	17		32.8
29-Sep-07	16	15	14	14	13	12	11	10	10	10	11	12	13	14	16	18	19	19	20	19	19	18	17	15		19.7
30-Sep-07	14	12	11	10	9	7	6	6	6	6	7	8	11	14	17	20	23	25	27	28	26	24	22	19		27.7

Hourly Max 32.1 32.8 32.0 31.6 31.6 31.6 31.3 31.1 31.0 30.9 31.0 31.4 31.9 32.5 33.4 34.1 34.6 34.8 34.1 34.1 33.6 32.8 31.7 32.2

PASZA - Portable-Spirit River Total Reduced Sulphur Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

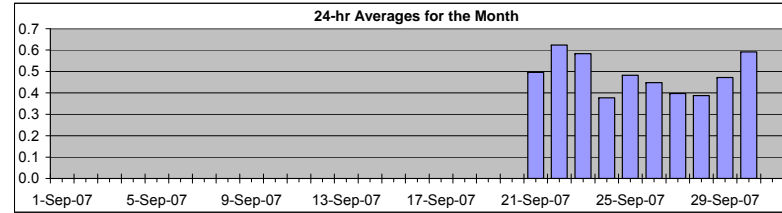
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	1.4	ppb	22-Sep	22:00 23:00
Maximum 24-hr Value:	0.6	ppb	22-Sep	



AIC Time:	12 hrs	Operational Time:	236 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.8	0.5	0.4	0.4	0.3	0.3	0.5 ppb	0.4 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	24:00			
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C	C	A	1	1	1	1	1	1	1	1	N	0.7	
21-Sep-07	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9	
22-Sep-07	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.6	1.4	
23-Sep-07	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0.6	1.1	
24-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5	
25-Sep-07	0	0	0	1	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	A	0	0.5	0.6	
26-Sep-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	A	0	0	0	0.4	0.5	
27-Sep-07	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0.4	0.6	
28-Sep-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.5	
29-Sep-07	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	A	1	0	0	1	1	0.5	0.7	
30-Sep-07	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	A	0	0	1	1	1	1	1	0.6	1.2	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	1.0	0.5	0.9	1.1	1.0	0.8	0.7	0.8	0.7	0.6	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.6	1.1	1.1	1.4	1.2				

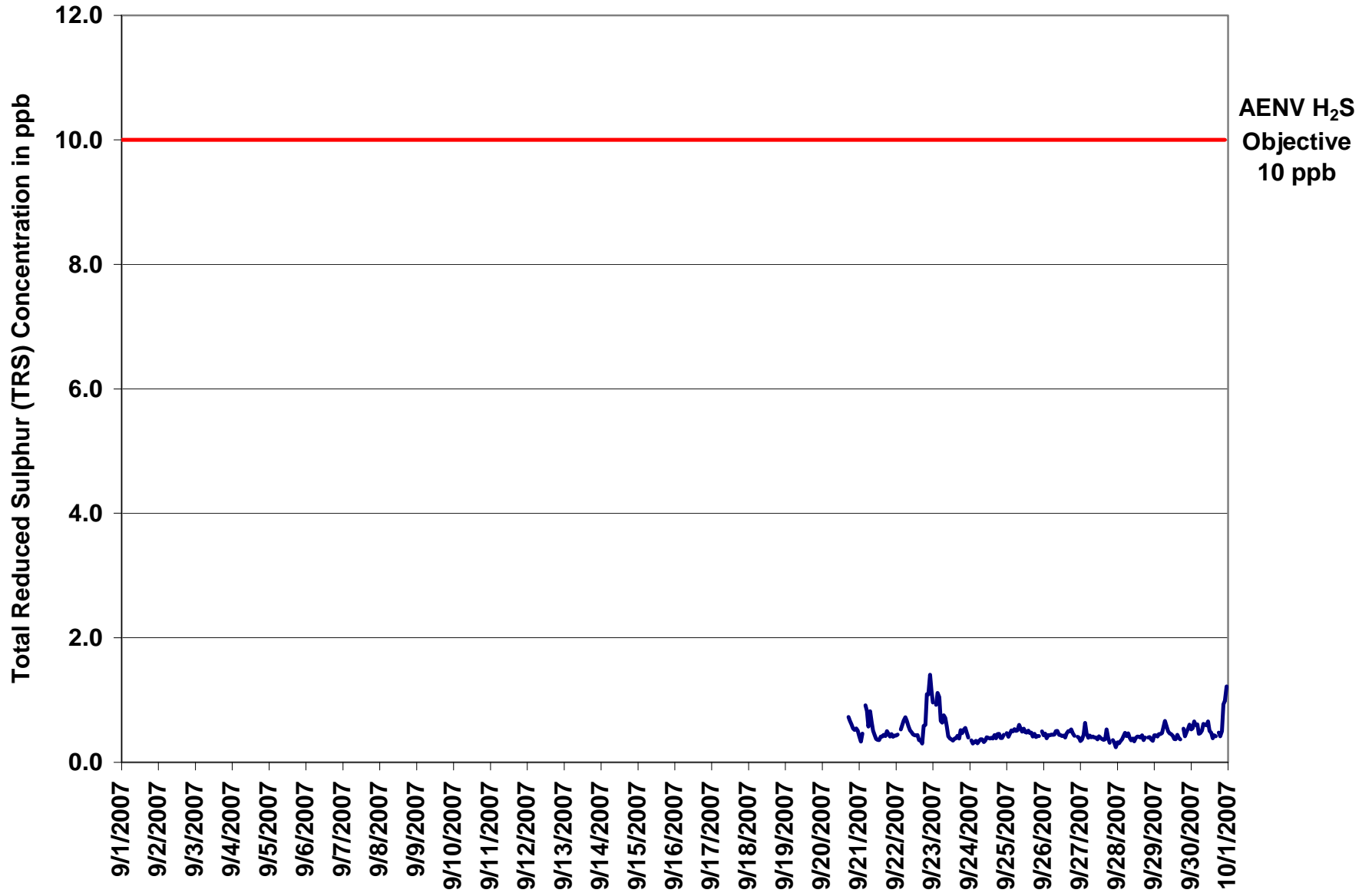


Figure 54. PASZA - Portable-Spirit River Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

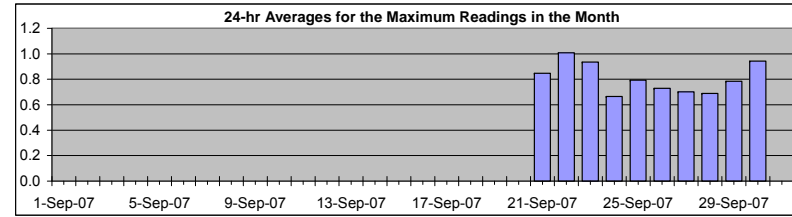
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	2.4	ppb	22-Sep	22:00 23:00
Maximum 24-hr Value:	1.0	ppb	22-Sep	

AIC Time:	12 hrs	Operational Time:	236 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.4	0.8	0.7	0.7	0.6	0.5	0.8 ppb	0.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C	C	A	1	1	1	1	1	1	1	1	N	1.0
21-Sep-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5
22-Sep-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1.0	2.4	
23-Sep-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5	
24-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8	
25-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	0.9	
26-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9	
27-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.0	
28-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	0.8	
29-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.0	
30-Sep-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	2	2	0.9	1.8	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	1.4	0.9	1.4	1.5	1.5	1.4	1.0	1.4	1.1	0.9	0.9	1.0	0.8	0.8	0.8	0.8	0.7	0.9	1.1	1.0	1.6	1.7	2.4	1.9					

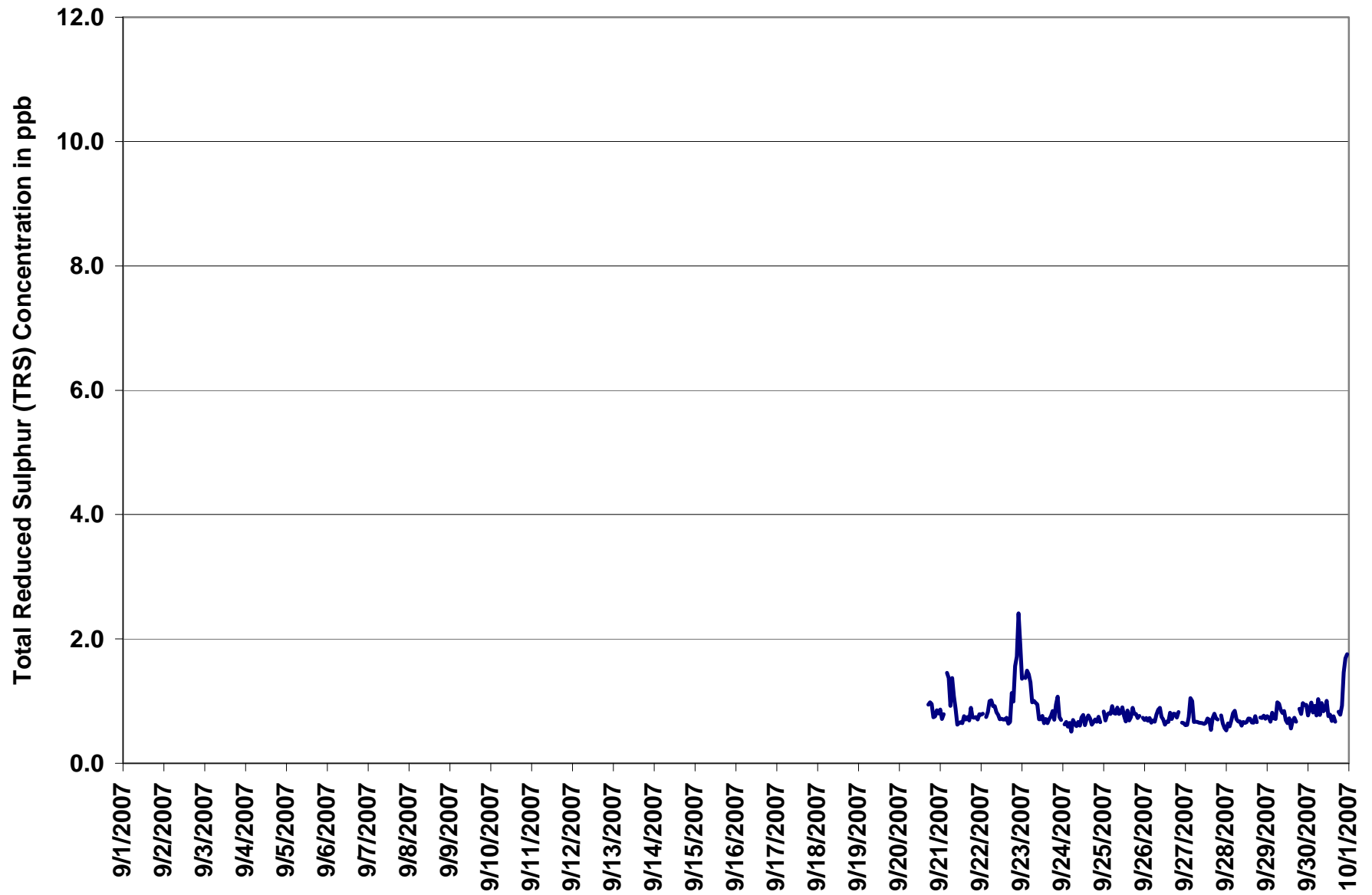
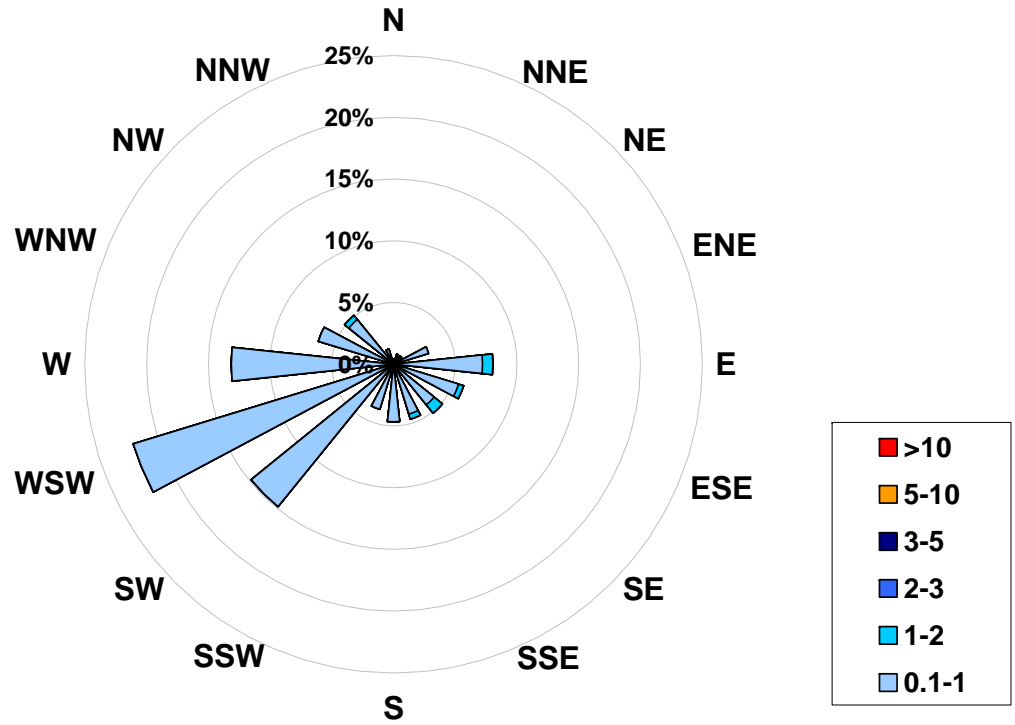


Figure 55. PASZA - Portable-Spirit River Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb) Located at the Portable-Spirit River Site for September 2007



Calms: 0%

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	229
1	to	2	7
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			236

PASZA - Portable-Spirit River Scalar Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

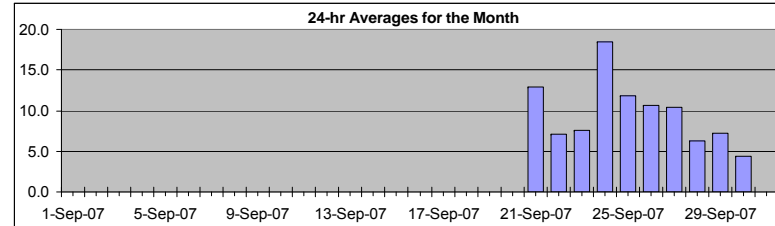
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	26.8	km/hr	24-Sep	10:00 11:00
Maximum 24-hr Value:	18.5	km/hr	24-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	255 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	25.3	21.4	12.2	8.9	5.6	2.4	1.4	9.6 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	6	12	16	13	11	13	12	12	8	5	3	6	3	2	5	N	16.0	
21-Sep-07	5	5	3	4	5	7	6	3	7	12	13	23	21	20	23	18	26	22	12	14	14	14	16	15	12.9	26.4	
22-Sep-07	13	12	10	7	7	4	3	3	3	5	5	8	6	8	15	14	14	9	3	7	4	2	2	5	7.1	15.2	
23-Sep-07	6	7	5	3	6	4	4	4	6	9	10	10	8	8	8	10	10	7	9	7	8	11	13	7.5	12.7		
24-Sep-07	12	13	14	15	15	13	10	10	13	17	27	25	25	25	18	24	22	20	20	22	22	21	18	18.5	26.8		
25-Sep-07	12	14	14	11	12	10	10	11	10	9	8	8	7	8	7	9	9	20	15	20	16	16	13	11	11.8	20.2	
26-Sep-07	10	13	10	11	12	11	11	11	11	11	9	9	10	9	13	12	12	9	9	9	10	11	12	11	10.7	13.3	
27-Sep-07	12	11	11	8	9	11	8	11	10	14	17	12	7	9	11	10	8	7	10	10	8	12	13	12	10.4	16.5	
28-Sep-07	9	6	6	6	2	5	6	4	6	6	7	8	8	7	9	8	7	6	10	9	4	3	2	6.2	9.7		
29-Sep-07	3	2	5	7	6	2	1	2	5	8	12	12	13	14	14	16	14	12	9	4	2	5	2	4	7.2	16.1	
30-Sep-07	2	5	3	4	4	4	1	4	4	4	6	5	10	8	4	4	7	6	9	4	3	4	2	1	4.4	10.1	
1-hr Average	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	13.1	14.5	14.2	15.2	15.2	13.0	11.3	11.1	13.1	17.1	26.8	24.7	25.3	25.2	22.7	24.1	26.4	21.7	20.5	22.0	21.8	21.9	21.0	17.9			

PASZA - Portable-Spirit River Vector Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

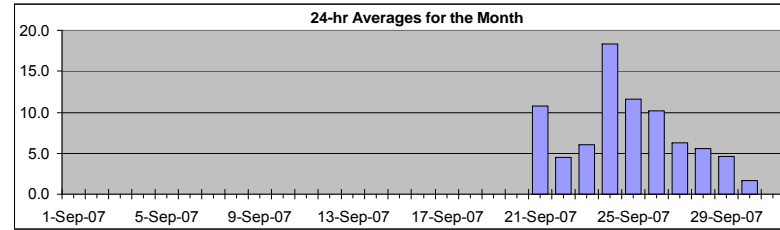
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	26.8	km/hr	24-Sep	10:00 11:00
Maximum 24-hr Value:	18.3	km/hr	24-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	255 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	25.1	21.2	12.1	8.7	5.3	2.0	0.5	20.5 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								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	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-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
20-Sep-07	S	S	S	S	S	S	S	S	S	6	12	16	13	11	13	12	12	8	5	3	5	3	2	5	N	15.7	
21-Sep-07	5	5	2	4	5	7	6	3	7	12	13	23	21	19	22	18	26	22	12	14	14	14	16	15	10.7	26.3	
22-Sep-07	13	12	10	7	7	4	3	3	3	5	5	8	6	7	15	14	14	9	3	6	4	2	1	5	4.5	15.0	
23-Sep-07	6	7	5	3	5	4	4	4	6	9	9	10	7	7	7	9	9	10	6	9	7	8	11	13	6.0	12.7	
24-Sep-07	12	13	14	15	15	13	10	9	13	17	27	25	25	25	18	24	22	20	20	22	22	22	21	18	18.3	26.8	
25-Sep-07	12	14	14	11	12	10	10	11	10	9	8	8	7	8	6	8	9	20	15	19	16	16	13	11	11.6	20.2	
26-Sep-07	10	13	10	11	12	11	11	11	11	11	9	8	10	8	13	12	12	9	9	9	10	11	12	11	10.2	13.2	
27-Sep-07	11	11	10	8	9	10	8	11	10	14	16	10	7	9	11	9	7	7	10	10	8	12	13	12	6.3	16.5	
28-Sep-07	9	6	6	6	2	5	6	4	5	6	6	7	7	7	8	7	7	7	6	10	8	3	3	2	5.6	9.6	
29-Sep-07	2	2	5	7	6	2	1	2	5	8	11	12	13	13	12	16	14	12	8	3	0	5	0	3	4.6	15.7	
30-Sep-07	2	4	3	4	2	4	1	4	2	3	6	4	10	7	2	2	7	5	8	3	3	4	1	1	1.7	9.8	
1-hr Vector	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	13.1	14.5	14.2	15.2	15.2	12.9	11.3	11.0	13.0	16.7	26.8	24.6	25.2	25.1	22.5	23.9	26.3	21.6	20.4	22.0	21.8	21.8	20.9	17.9			

PASZA - Portable-Spirit River Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

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Determined by the Yamartino 15-min interval calculation

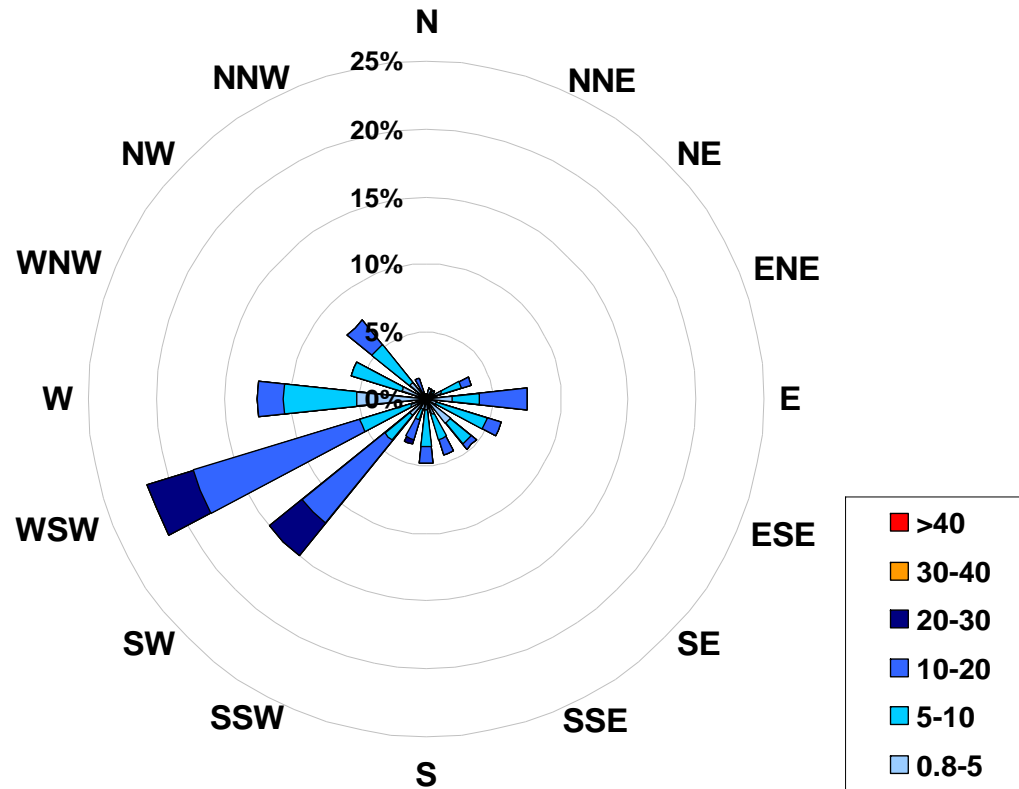
Calm Time:	0 hrs	0% calms	Operational Time:	255 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	72.3	49.9	22.8	11.6	6.8	3.6	2.5

Status Flag Characters

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

Day	Mountain Standard Time																								Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		23:00 0:00	
1-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0	
2-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
3-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
4-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
5-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
6-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
7-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
8-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
9-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
10-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
11-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
12-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
13-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
14-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
15-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
16-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
17-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
18-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
19-Sep-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	0.0
20-Sep-07	S	S	S	S	S	S	S	S	S	S	25	13	10	11	13	10	8	9	11	23	30	27	32	50	13		49.8
21-Sep-07	10	7	58	17	33	18	20	42	14	5	6	10	9	10	9	9	6	7	5	4	4	6	4	7		57.7	
22-Sep-07	4	5	5	7	7	39	41	38	26	28	15	11	19	34	7	10	7	6	15	42	14	47	59	14		59.0	
23-Sep-07	8	13	18	21	8	15	14	13	14	13	14	14	25	31	24	16	11	8	8	9	11	11	6	5		30.8	
24-Sep-07	6	3	3	2	3	5	10	8	7	11	4	5	4	6	4	7	8	4	3	3	3	4	4	4		10.7	
25-Sep-07	5	4	4	5	4	5	5	5	7	13	23	23	31	28	24	18	14	5	4	5	9	6	5	7		31.5	
26-Sep-07	5	7	8	6	5	5	7	7	8	12	22	18	15	25	11	14	7	8	9	8	5	4	4	2		24.9	
27-Sep-07	2	9	29	21	15	19	26	11	11	16	5	30	32	20	12	30	10	10	15	12	8	8	3	3		32.0	
28-Sep-07	11	14	9	10	31	10	24	29	17	23	22	19	26	25	25	24	19	15	18	7	8	28	40	25		40.3	
29-Sep-07	36	22	18	7	4	39	68	49	11	14	12	16	17	23	24	12	10	7	11	37	72	6	85	32		85.0	
30-Sep-07	39	15	16	19	50	19	62	38	58	43	16	45	13	15	63	70	21	31	9	62	18	15	72	76		76.0	
Hourly Max	39	22	58	21	50	39	68	49	58	43	23	45	32	34	63	70	21	31	23	62	72	47	85	76			

1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	55
5	to	10	89
10	to	20	93
20	to	30	18
30	to	40	0
	>	40	0
Total Non-Zero Values			255

PASZA – Valleyview Station

Monthly Summary Tables, Graphs and Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

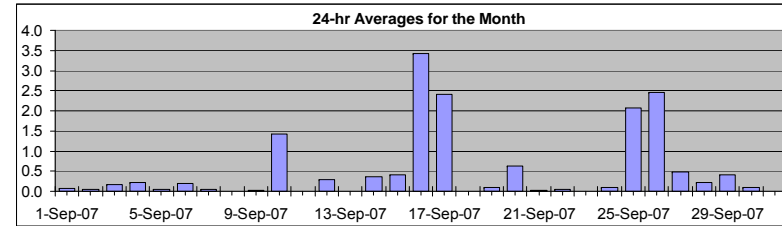
Sulphur Dioxide (SO₂)

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

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	22.5	ppb	16-Sep	21:00 22:00
Maximum 24-hr Average:	3.4	ppb	16-Sep	



AIC Time:	30 hrs	Operational Time:	683 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.2	2.7	0.3	0.0	0.0	0.0	0.0	0.5 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.1	0.9
2-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
3-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.9
4-Sep-07	A	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
5-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Sep-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
7-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
8-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
9-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
10-Sep-07	A	10	2	2	0	2	2	3	1	1	4	6	1	0	0	0	0	0	0	0	0	0	0	0	1.4	10.4
11-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	1	1	1	0	N	0.9	
12-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0.3	1.6
13-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
14-Sep-07	A	0	0	0	0	0	0	0	0	0	1	0	1	1	3	2	0	1	0	0	0	0	0	0	0.3	2.6
15-Sep-07	A	0	0	0	0	0	0	0	0	1	3	1	0	1	0	0	1	0	0	1	0	0	0	0	0.4	2.8
16-Sep-07	A	0	0	0	0	0	0	0	0	0	0	1	1	5	6	1	1	9	1	1	1	22	15	13	3.4	22.5
17-Sep-07	A	2	1	0	0	0	0	0	1	5	6	3	6	6	1	0	1	4	12	1	0	6	0	0	2.4	12.5
18-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
19-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	0.8
20-Sep-07	A	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	8	2	0	0	0	0	0	0.6	7.7
21-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.0	0.7
22-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
23-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
24-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	1.1
25-Sep-07	A	0	0	0	0	0	3	5	8	5	6	1	2	1	1	7	1	1	5	0	0	0	0	0	2.1	7.7
26-Sep-07	A	0	3	13	8	11	5	4	3	1	0	0	0	1	2	1	1	1	1	0	0	0	0	0	2.5	12.7
27-Sep-07	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	0	0	1	0	0	0.5	1.5	
28-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.2	0.7
29-Sep-07	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
30-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.1	0.9
Hourly Avg	N	0.5	0.3	0.6	0.4	0.5	0.4	0.5	0.5	0.6	0.8	0.5	0.5	0.6	0.5	0.6	0.4	0.6	1.1	0.2	0.2	1.0	0.6	0.5		
Hourly Max	0.0	10.4	2.7	12.7	8.2	11.0	5.1	5.4	7.7	5.2	6.3	5.5	5.8	5.6	6.4	7.0	1.7	9.0	12.5	1.7	0.9	22.5	15.1	13.4		

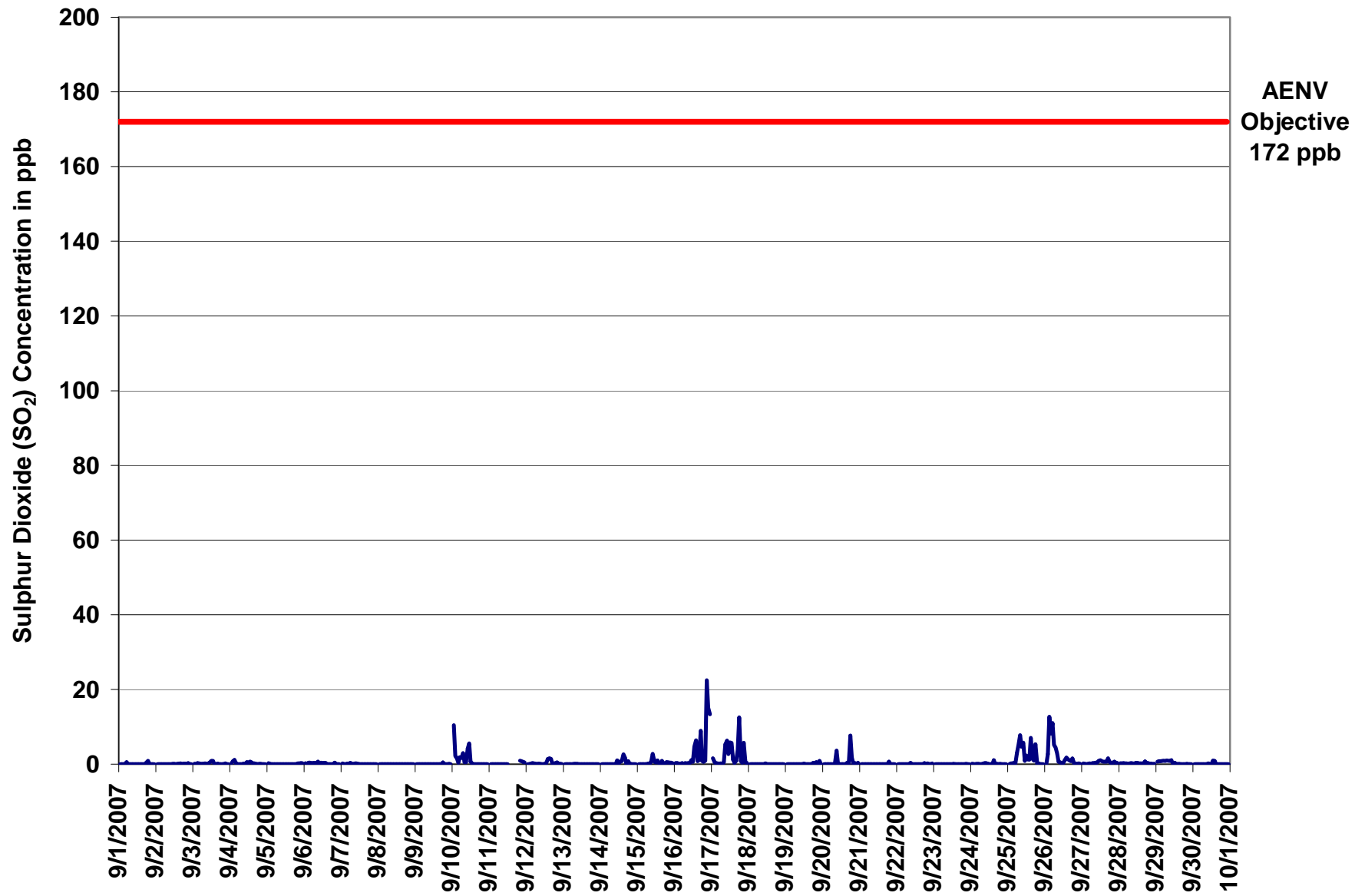


Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

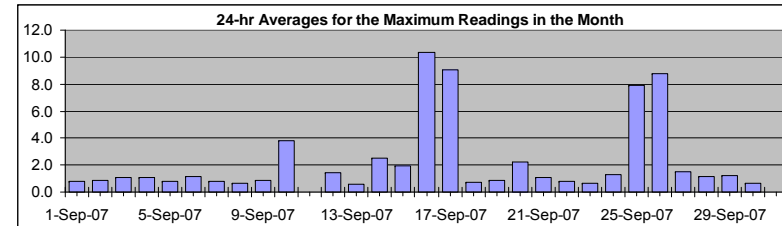
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	60.8	ppb	16-Sep	21:00 22:00
Maximum 24-hr Value:	10.3	ppb	16-Sep	



AIC Time:	30 hrs	Operational Time:	683 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.3	11.2	1.4	0.9	0.6	0.2	0.0	2.3 ppb	0.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Sep-07	A	1	1	1	0	2	1	1	1	1	0	1	0	0	1	1	1	1	2	2	1	0	0	0	0.8	2.0	
2-Sep-07	A	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.9	1.4
3-Sep-07	A	0	1	1	1	1	0	1	1	1	1	1	2	2	1	0	1	0	0	1	1	1	1	0	1.0	2.4	
4-Sep-07	A	1	2	2	1	1	1	1	0	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.1	2.2	
5-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
6-Sep-07	A	2	1	2	2	1	2	1	2	2	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1.1	1.7	
7-Sep-07	A	2	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	1	0.8	1.5	
8-Sep-07	A	0	1	0	0	1	1	0	0	1	1	0	1	1	1	1	0	0	1	1	1	1	0	1	0.6	1.1	
9-Sep-07	A	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	3	0	0	1	1	0	0	0.9	3.3	
10-Sep-07	A	27	3	3	1	4	3	6	2	1	9	14	3	1	1	1	1	1	1	1	1	1	1	1	3.8	27.1	
11-Sep-07	A	1	1	1	0	1	1	1	0	0	1	0	1	C	C	C	C	C	C	C	2	2	2	2	N	1.9	
12-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	1	2	4	5	6	1	1	1	1	0	1	0	1.5	6.5	
13-Sep-07	A	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0.6	1.4	
14-Sep-07	A	0	0	0	0	0	0	0	1	0	0	15	2	5	5	10	9	0	2	1	1	0	0	0	2.5	15.4	
15-Sep-07	A	0	0	0	0	0	1	1	1	3	9	2	5	6	1	7	1	1	1	1	2	1	1	1	1.9	8.5	
16-Sep-07	A	1	1	1	1	1	1	1	1	1	1	6	2	17	24	2	3	26	3	2	3	61	45	37	10.3	60.8	
17-Sep-07	A	4	2	1	1	1	2	1	2	18	19	12	24	21	10	1	6	17	39	2	1	20	1	1	9.0	39.1	
18-Sep-07	A	0	0	0	1	0	0	1	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0.7	1.2	
19-Sep-07	A	1	0	0	0	0	1	1	0	1	1	1	1	1	1	0	1	1	2	1	2	1	4	1	0.8	3.5	
20-Sep-07	A	1	1	0	0	0	0	1	2	12	2	1	0	1	1	0	4	2	17	6	2	1	1	2	2.3	17.4	
21-Sep-07	A	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	4	0	8	3	1	1	1	1.1	8.3	
22-Sep-07	A	1	1	1	0	1	1	1	1	2	2	1	1	0	1	0	1	1	1	1	1	0	1	1	0.8	1.7	
23-Sep-07	A	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0.6	1.2	
24-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	7	0	1	1	1	1	1	1	1	1.3	7.2	
25-Sep-07	A	1	1	1	1	1	11	10	13	11	16	9	14	8	11	20	13	12	24	1	1	1	1	1	7.9	23.6	
26-Sep-07	A	1	11	30	27	29	28	15	13	4	2	1	2	7	8	11	3	3	3	1	1	1	1	1	8.7	29.9	
27-Sep-07	A	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1	8	1	1	1	1	1	1	1.5	7.8	
28-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1.2	3.1	
29-Sep-07	A	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1.2	1.9	
30-Sep-07	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	0.7	1.9	
Hourly Avg	N	1.9	1.2	1.9	1.6	1.8	2.1	1.8	1.8	2.3	2.6	2.7	2.4	3.0	2.9	2.5	2.2	3.1	3.8	1.4	1.2	3.5	2.4	2.0			
Hourly Max	0.0	27.1	11.1	29.9	27.0	28.9	27.9	14.8	12.8	18.0	18.6	15.4	24.4	20.6	23.7	19.9	13.2	25.7	39.1	8.3	3.0	60.8	44.6	36.7			

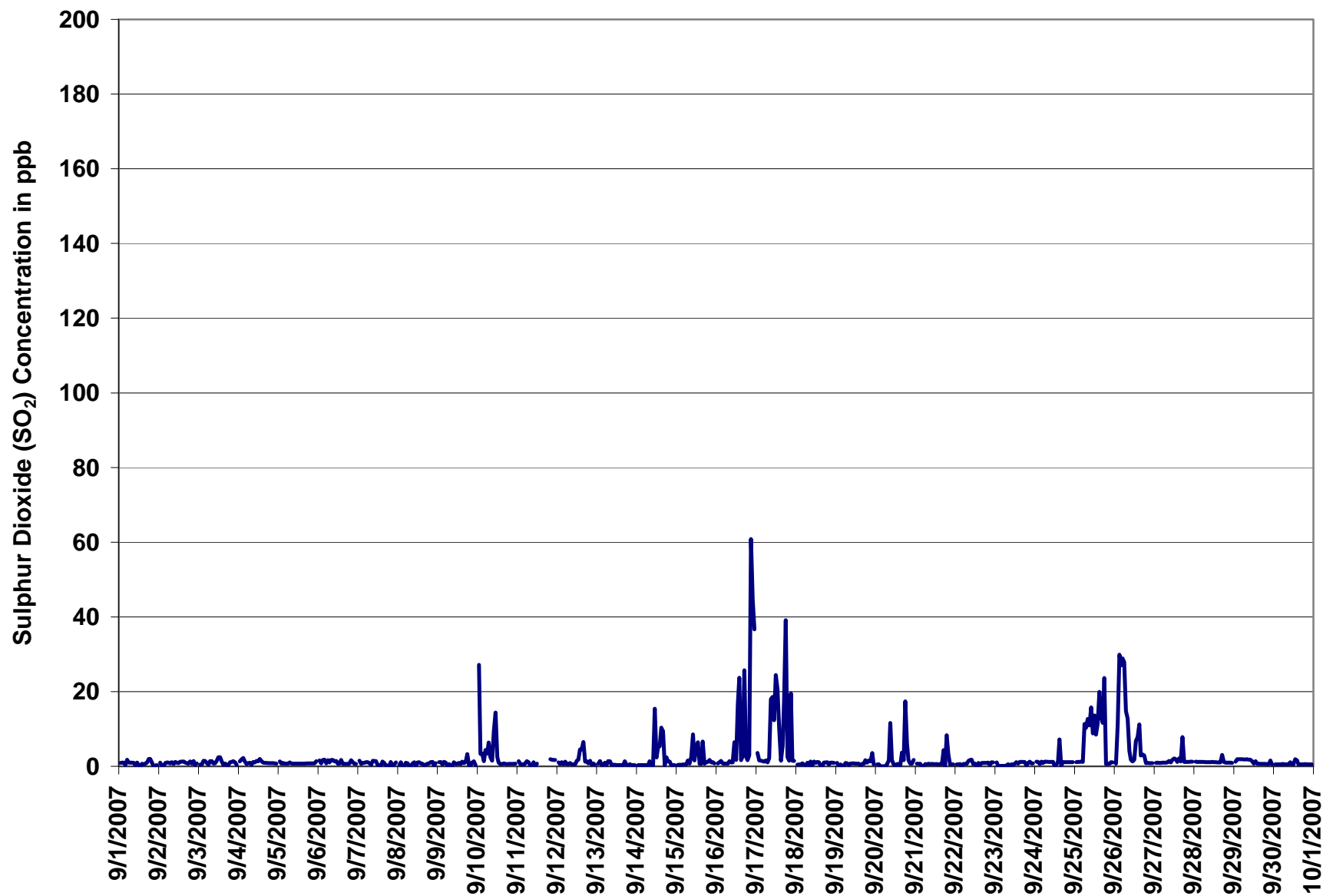
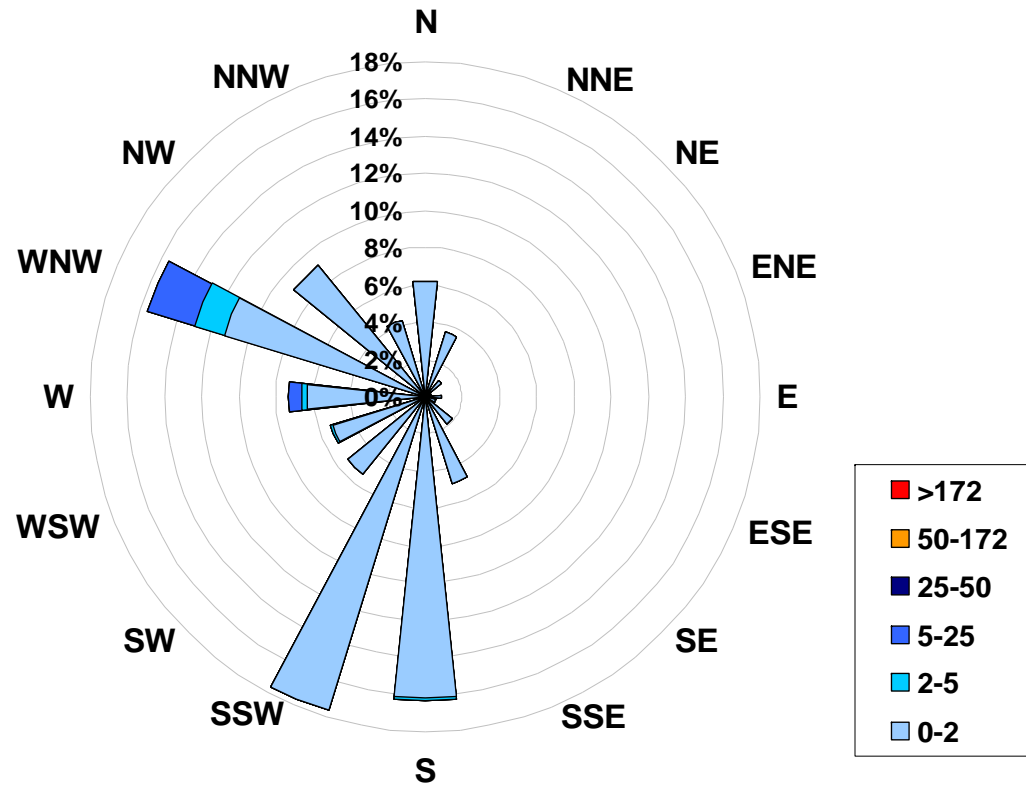


Figure 57. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for September 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	645
2	to	5	15
5	to	25	23
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			683

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

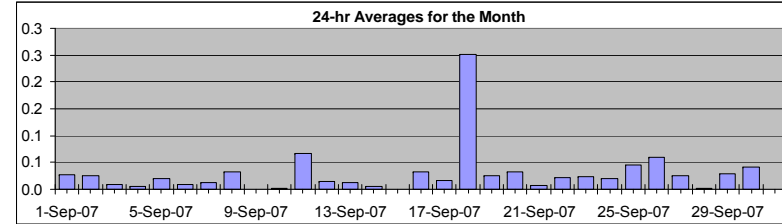
Hydrogen Sulphide (H₂S)

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

Objective Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	3.8	ppb	18-Sep	22:00 23:00
Maximum 24-hr Value:	0.3	ppb	18-Sep	



AIC Time:	30 hrs	Operational Time:	687 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
2-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
3-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
4-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
5-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
6-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
7-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
8-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
9-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
10-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
11-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.1	0.5	
12-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
13-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
14-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
15-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
17-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
18-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0.3	3.8	
19-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
20-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
21-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
22-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
23-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
24-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
25-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
26-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
27-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
28-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
29-Sep-07	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6
30-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
Hourly Avg	N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1			
Hourly Max	0.0	0.1	0.6	0.5	0.3	0.3	0.1	0.3	0.2	0.2	0.3	0.1	0.0	0.0	0.0	0.5	0.5	0.1	0.1	0.1	0.1	0.4	3.8	1.4			

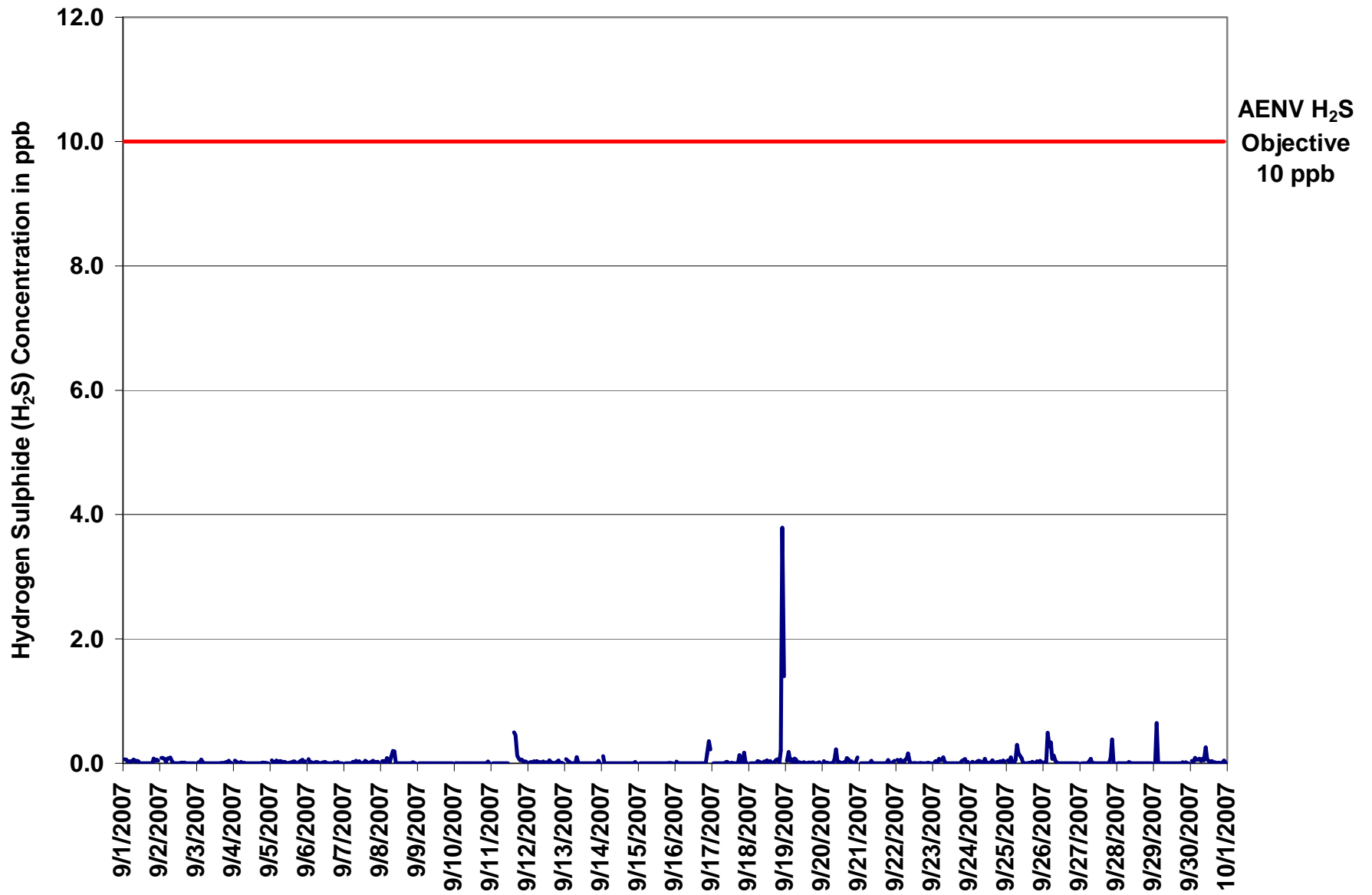


Figure 58. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

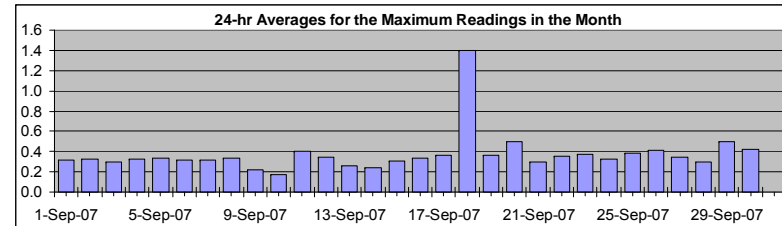
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

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

Summary

Maximum 1-hr Value:	11.4	ppb	18-Sep	22:00 23:00
Maximum 24-hr Value:	1.4	ppb	18-Sep	



AIC Time:	30 hrs	Operational Time:	687 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	0.7	0.3	0.3	0.2	0.2	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
2-Sep-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
3-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
4-Sep-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
5-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
6-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
7-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
8-Sep-07	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
9-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
10-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
11-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	C	C	C	2	3	0	0	0	0	0	0	0	0.4	3.1
12-Sep-07	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
13-Sep-07	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
14-Sep-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
15-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	1.4
16-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	1.0
17-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0.4	1.5
18-Sep-07	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	10	1.4	11.4
19-Sep-07	A	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
20-Sep-07	A	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0.5	1.7
21-Sep-07	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
22-Sep-07	A	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
23-Sep-07	A	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6
24-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
25-Sep-07	A	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
26-Sep-07	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
27-Sep-07	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.3	0.8
28-Sep-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	1.0
29-Sep-07	A	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.7
30-Sep-07	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	1.3
Hourly Avg	N	0.3	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.5	0.7	0.7			
Hourly Max	0.0	0.5	5.7	1.2	1.2	0.9	1.3	1.6	0.8	1.7	1.3	0.4	0.4	1.4	0.4	1.9	3.1	1.0	0.6	0.5	0.5	3.0	11.4	10.4		

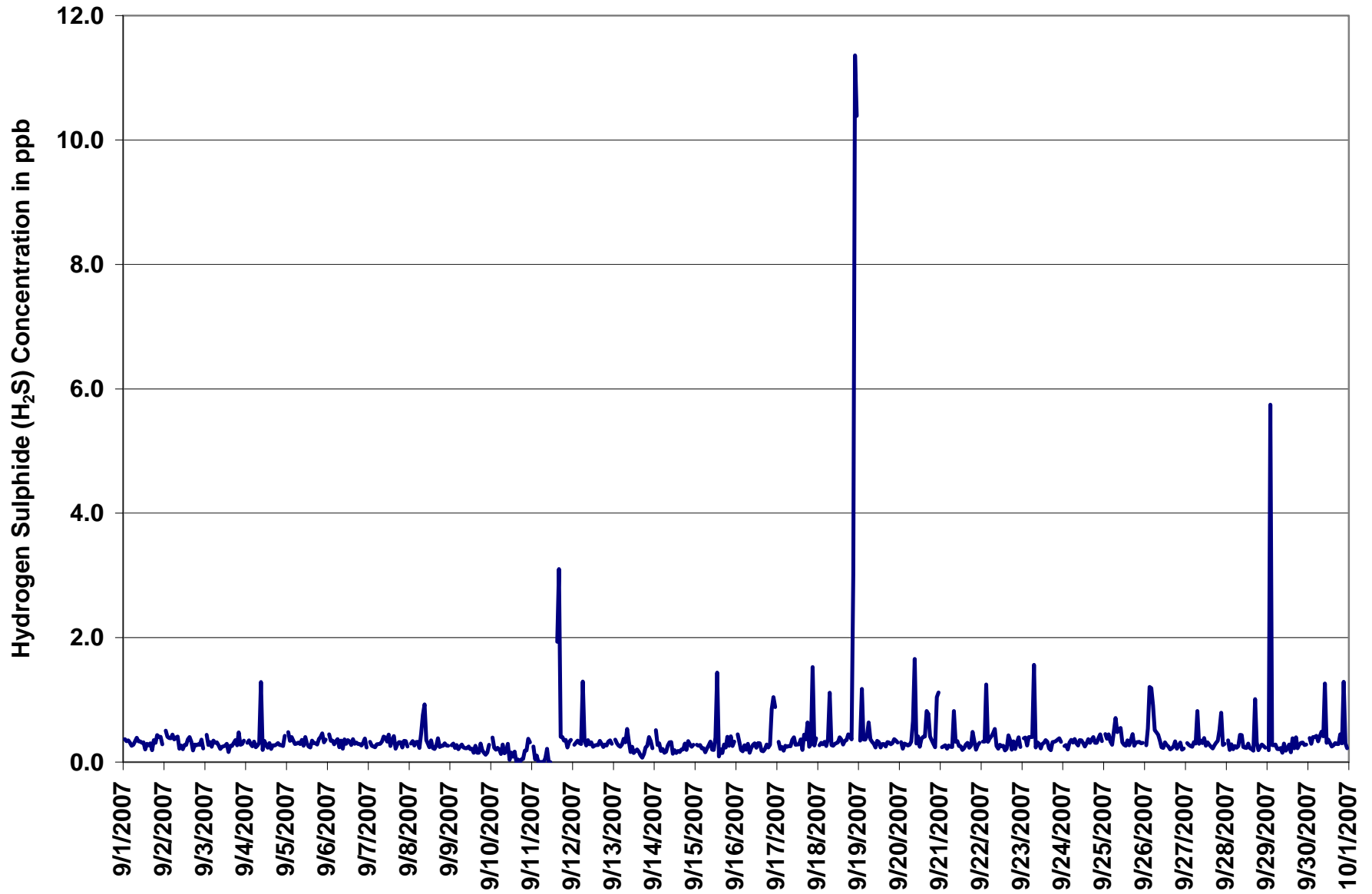
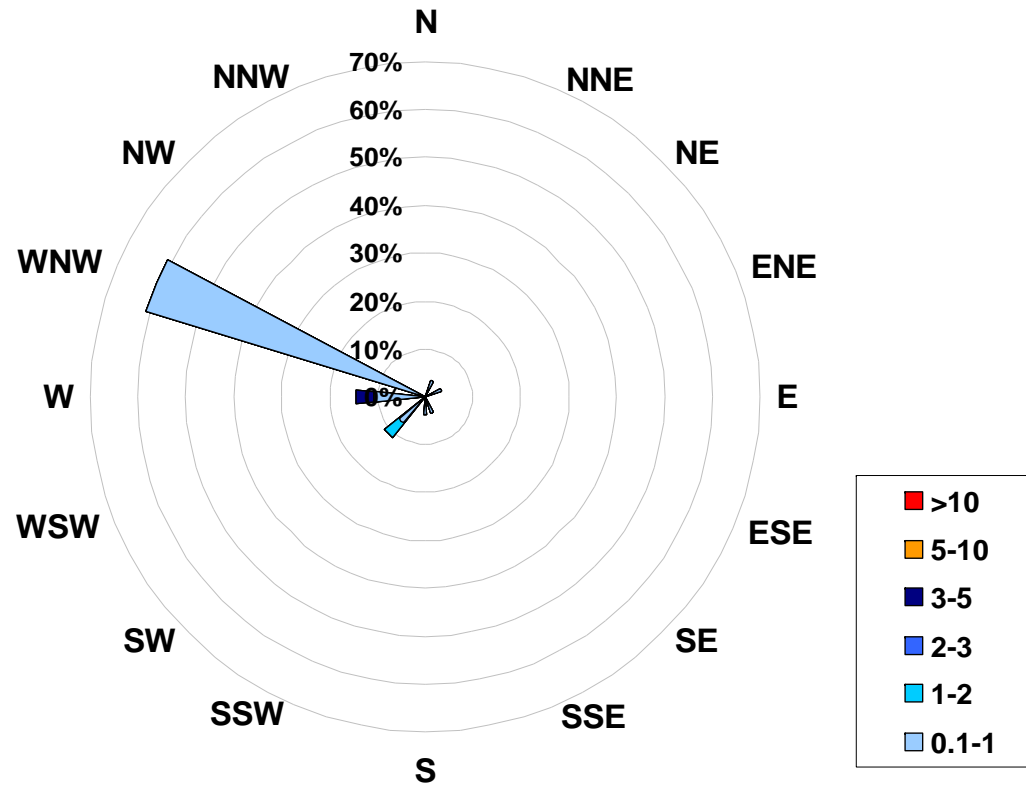


Figure 59. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for September 2007



Calms: 0%

Frequency Distribution of H ₂ S in ppb Range			Frequency (hrs)
0.1	<	1	685
1	to	2	1
2	to	3	0
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			687

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

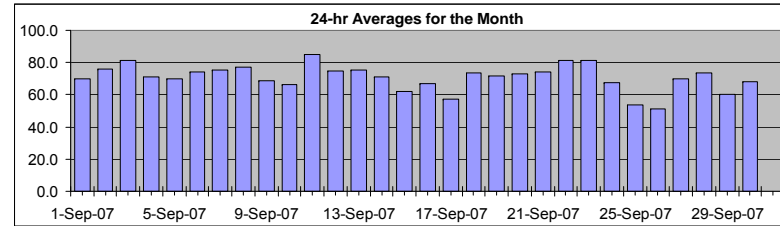
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	99.0 %	3-Sep	7:00 8:00
Maximum 24-hr Value:	84.8 %	11-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	98.0	96.5	88.3	71.3	55.2	37.4	29.4	70.7 %	71.3 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	96	95	96	91	85	81	80	75	67	61	55	51	47	45	41	39	39	45	47	65	89	95	95	94	69.8	96.2
2-Sep-07	94	96	96	97	96	97	97	96	87	71	61	55	53	49	43	42	46	55	67	76	79	81	89	95	75.8	97.3
3-Sep-07	97	98	98	98	98	99	99	99	99	93	84	76	64	55	54	52	53	57	71	76	80	82	82	88	81.4	99.0
4-Sep-07	94	94	96	97	96	96	95	93	83	73	64	60	55	54	52	49	52	51	47	55	59	58	64	70	71.2	96.9
5-Sep-07	70	67	69	76	79	77	78	78	78	70	59	55	53	54	73	61	51	50	58	73	83	89	91	85	69.9	90.6
6-Sep-07	69	67	77	87	81	74	74	75	81	73	68	67	66	55	53	72	57	55	70	88	91	93	92	94	74.1	94.2
7-Sep-07	93	92	88	92	94	96	97	96	78	70	64	57	52	53	54	49	51	45	58	72	87	89	88	91	75.3	96.5
8-Sep-07	93	94	94	95	96	96	96	96	83	74	63	54	61	50	46	46	46	47	65	89	93	92	93	77.4	96.1	
9-Sep-07	95	93	93	92	91	92	90	88	78	65	51	48	48	48	48	48	46	48	53	59	62	64	68	75	68.5	94.9
10-Sep-07	67	67	67	68	69	70	70	71	72	71	64	57	53	50	46	44	45	46	54	78	85	90	96	97	66.5	96.7
11-Sep-07	97	97	96	96	95	95	94	90	81	73	68	69	79	77	88	91	91	89	85	77	78	73	75	81	84.8	97.5
12-Sep-07	80	81	83	78	79	80	82	81	77	73	70	67	64	63	60	56	54	53	58	83	91	95	95	95	74.9	94.7
13-Sep-07	95	96	97	97	97	97	97	93	85	74	65	56	47	42	42	41	41	41	48	75	89	94	96	97	75.0	97.3
14-Sep-07	97	98	98	98	98	98	98	97	88	72	60	43	34	34	33	30	32	35	49	69	86	88	88	90	71.3	98.0
15-Sep-07	92	95	96	97	95	94	94	88	80	71	60	47	40	24	25	26	26	26	29	50	60	62	53	55	61.9	96.6
16-Sep-07	61	69	74	82	86	91	92	85	80	70	68	66	57	57	56	57	58	61	66	66	49	50	52	53	66.9	91.7
17-Sep-07	63	67	79	80	85	89	89	79	63	48	44	40	37	34	34	34	34	37	42	46	52	52	68	77	57.2	89.3
18-Sep-07	80	86	86	87	85	82	81	79	75	71	67	67	61	61	61	63	62	63	67	71	78	79	75	79	73.6	86.9
19-Sep-07	86	87	90	90	92	93	93	91	84	71	61	57	58	59	55	51	49	54	59	62	64	67	69	81	71.9	93.1
20-Sep-07	84	83	83	82	82	85	86	83	79	62	56	52	51	60	80	67	66	65	76	82	70	71	72	73	73.0	86.5
21-Sep-07	78	88	88	88	92	93	92	89	90	90	89	83	73	64	56	50	42	40	48	54	66	70	77	81	74.2	93.1
22-Sep-07	84	86	87	90	89	88	88	81	70	66	63	64	64	77	78	78	83	81	89	90	85	85	87	92	81.0	92.0
23-Sep-07	90	91	96	96	96	97	98	98	98	89	78	71	66	58	57	54	54	54	61	81	90	92	93	96	81.4	97.7
24-Sep-07	95	95	96	96	96	96	96	92	86	71	56	49	39	32	33	36	44	49	58	66	62	57	60	61	67.6	96.5
25-Sep-07	64	69	68	69	69	68	61	59	59	55	50	47	44	42	40	36	36	37	39	47	53	55	56	59	53.5	69.5
26-Sep-07	59	57	55	55	54	55	55	53	53	51	48	45	42	39	37	36	34	35	39	48	59	66	70	79	51.0	78.5
27-Sep-07	77	79	78	88	88	91	89	83	76	71	60	46	41	34	33	34	39	56	67	83	89	89	94	92	69.9	94.5
28-Sep-07	95	96	96	97	96	97	94	89	75	64	59	56	56	56	53	53	52	54	57	64	72	83	78	78	73.7	96.8
29-Sep-07	87	80	76	86	85	91	93	87	77	70	61	51	45	37	31	32	29	29	35	41	47	51	58	69	60.4	93.1
30-Sep-07	70	77	80	79	85	84	83	83	78	74	75	73	69	61	54	50	51	53	55	57	59	62	63	67	68.4	84.5
Hourly Avg	83.5	84.7	85.9	87.5	87.6	88.1	87.8	84.9	79.1	70.6	63.4	57.9	53.8	51.2	50.7	49.1	48.9	50.3	56.6	67.3	73.5	75.9	77.9	81.1		
Hourly Max	97.5	98.0	98.5	98.2	98.4	98.6	98.9	99.0	98.9	93.2	88.8	83.2	78.8	77.4	88.0	90.7	91.3	89.0	88.5	90.3	91.2	95.2	96.3	96.7		

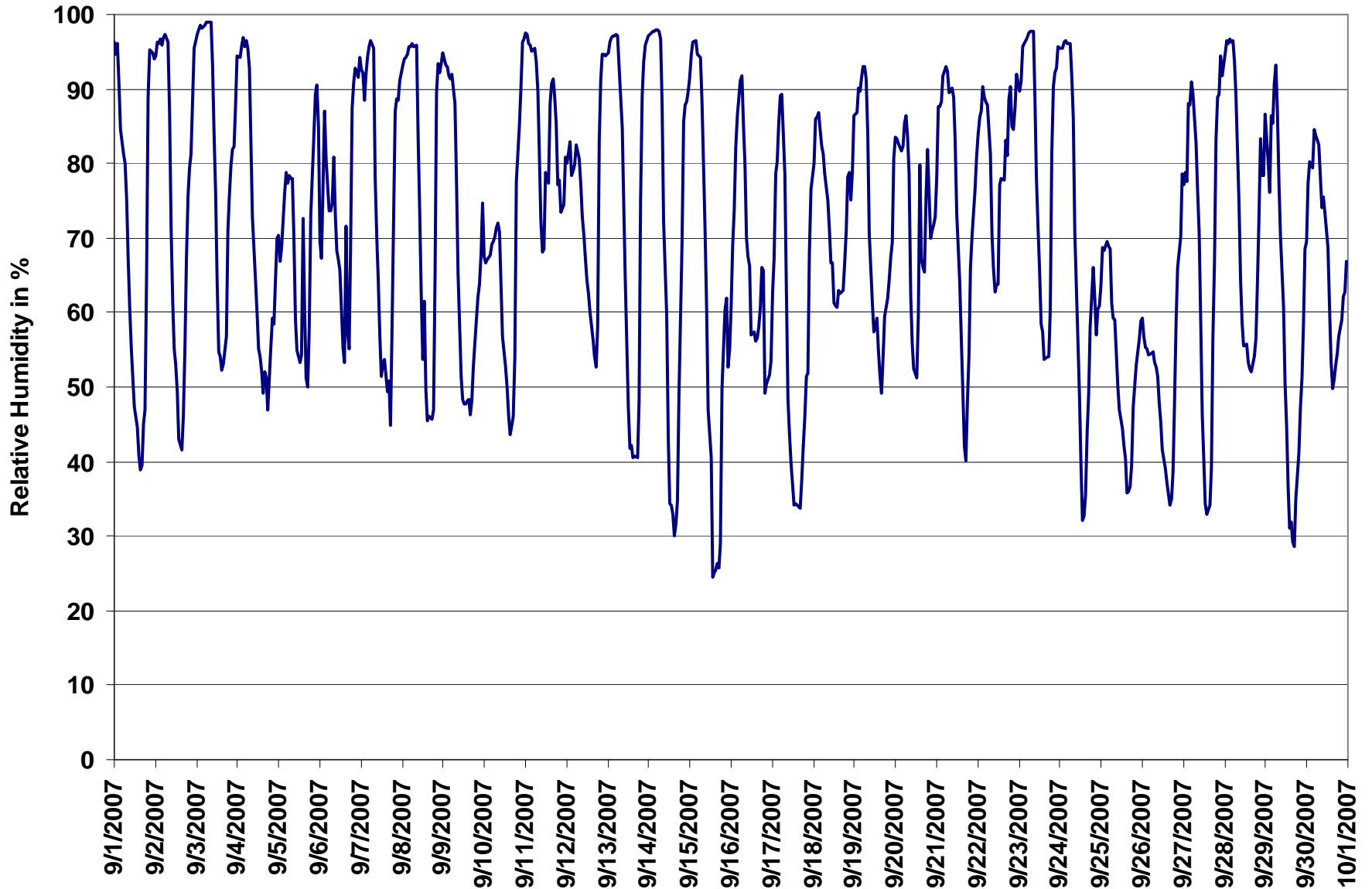


Figure 60. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

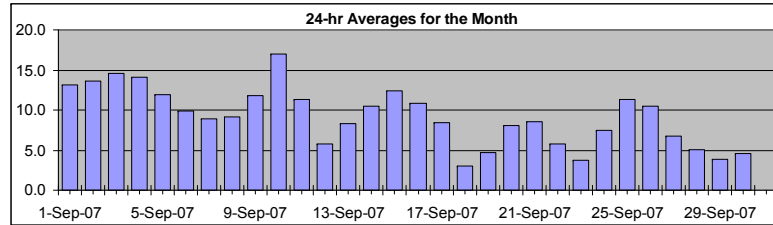
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	23.4	°C	10-Sep	17:00 18:00
Maximum 24-hr Value:	17.0	°C	10-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.2	18.6	13.0	9.3	5.1	0.3	-1.3	9.2 °C	9.3 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			23:00
1-Sep-07	9	9	8	9	9	9	9	10	12	14	15	16	17	18	18	19	19	18	18	16	12	11	10	10	13.2	18.9	
2-Sep-07	9	9	9	9	9	8	8	8	11	14	16	17	18	19	19	19	19	18	17	15	14	14	13	12	13.6	19.5	
3-Sep-07	12	12	11	11	11	11	10	10	11	13	14	16	18	19	19	19	19	19	17	16	16	15	15	14	14.6	19.3	
4-Sep-07	13	13	13	12	12	12	12	12	13	14	15	15	16	16	17	17	17	17	17	15	14	13	12	10	14.2	17.3	
5-Sep-07	10	11	11	9	9	10	10	10	11	13	14	14	15	15	13	15	15	15	15	12	10	9	9	9	11.9	15.4	
6-Sep-07	11	11	9	7	8	8	8	9	8	10	11	11	12	13	13	11	13	14	11	9	8	8	8	7	9.8	13.7	
7-Sep-07	7	6	6	5	4	3	3	3	8	9	11	12	14	14	14	15	14	15	12	10	8	7	7	7	9.0	14.9	
8-Sep-07	7	6	6	5	4	4	4	5	6	9	11	13	14	13	13	15	15	15	15	12	8	7	6	5	9.1	15.2	
9-Sep-07	5	5	5	4	4	3	3	4	7	11	15	16	17	18	18	19	20	20	18	16	15	14	12	11.9	20.2		
10-Sep-07	14	14	14	14	14	14	14	14	15	15	17	19	21	22	23	23	23	23	23	18	16	14	13	11	17.0	23.4	
11-Sep-07	11	11	11	10	10	9	9	10	13	15	16	15	14	14	12	12	12	12	12	11	10	9	8	7	11.4	16.1	
12-Sep-07	5	4	4	5	5	4	4	4	4	4	5	6	7	8	8	9	10	11	10	7	5	3	3	2	5.7	10.5	
13-Sep-07	1	0	0	-1	-1	-1	-1	0	3	7	10	13	15	17	18	19	19	19	18	13	10	8	6	5	8.3	19.3	
14-Sep-07	4	3	2	2	2	2	1	2	5	9	13	16	18	19	20	21	21	20	18	14	11	10	9	8	10.5	21.0	
15-Sep-07	7	5	4	4	4	3	3	4	6	9	13	17	20	22	22	22	22	22	20	16	14	13	14	13	12.4	22.5	
16-Sep-07	12	11	9	8	6	5	5	6	7	10	11	13	15	15	14	14	15	15	14	13	12	11	10	10	10.9	14.8	
17-Sep-07	8	7	5	4	3	2	2	4	7	10	11	12	13	13	13	13	13	12	11	10	9	9	8	6	8.4	13.0	
18-Sep-07	5	4	3	1	1	1	1	1	2	2	3	3	4	4	4	4	4	4	4	4	3	3	3	3	3.0	5.5	
19-Sep-07	2	2	2	2	1	1	1	1	2	4	4	5	6	6	7	8	9	9	8	7	7	6	7	6	4.7	9.0	
20-Sep-07	6	6	6	6	6	6	5	6	7	10	11	12	12	11	9	10	10	10	10	9	8	7	7	7	8.1	11.9	
21-Sep-07	6	6	6	5	5	4	4	5	5	6	6	8	10	12	14	15	16	15	13	12	10	9	8	6	8.5	15.6	
22-Sep-07	5	5	4	3	3	4	3	5	7	8	9	9	8	8	8	8	7	7	6	5	4	4	3	2	5.7	9.5	
23-Sep-07	2	2	2	2	1	-1	-2	-1	1	3	4	5	7	8	8	9	9	9	8	5	3	2	1	1	3.8	9.4	
24-Sep-07	0	0	0	0	-1	-1	-1	0	2	5	9	12	15	17	16	16	15	14	13	11	9	11	10	10	7.5	16.6	
25-Sep-07	9	8	9	9	9	9	10	10	11	12	12	13	14	15	15	16	15	14	13	11	10	10	10	10	11.3	15.6	
26-Sep-07	10	10	11	11	11	11	11	11	11	11	11	12	13	13	13	14	14	14	13	12	9	7	5	4	3	10.4	14.1
27-Sep-07	3	2	2	0	0	-1	-1	0	1	4	7	10	12	14	15	15	15	13	11	10	8	8	7	7	6.7	15.4	
28-Sep-07	6	6	6	5	5	4	3	3	5	6	6	6	7	7	7	7	8	7	7	5	3	1	1	0	5.0	7.7	
29-Sep-07	0	0	0	-1	-1	-2	-3	-2	-1	1	4	6	8	10	11	11	11	11	11	9	7	6	5	3	2	3.9	11.3
30-Sep-07	1	0	-1	-1	-1	0	0	0	2	3	4	5	6	8	9	10	10	10	9	8	7	7	7	7	4.6	10.5	
Hourly Avg	6.7	6.3	5.8	5.3	5.1	4.7	4.5	5.2	6.8	8.7	10.3	11.7	12.7	13.6	13.8	14.2	14.3	14.1	12.9	10.9	9.3	8.5	7.8	7.1			
Hourly Max	13.6	13.9	14.0	14.1	14.0	14.1	14.2	14.1	14.6	15.2	17.0	19.2	20.5	22.2	22.9	23.0	23.3	23.4	22.5	18.2	16.0	15.1	14.7	13.7			

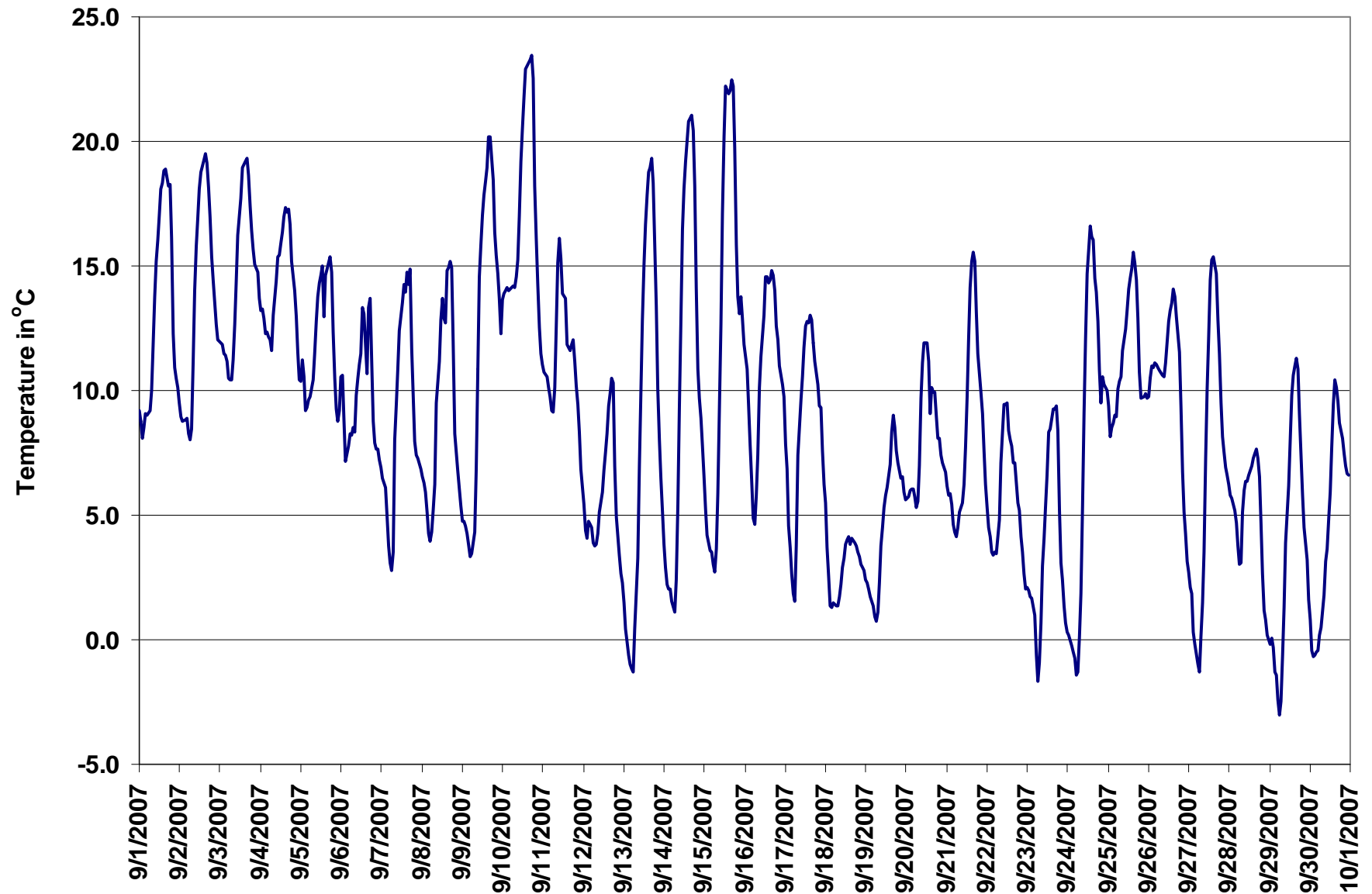


Figure 61. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

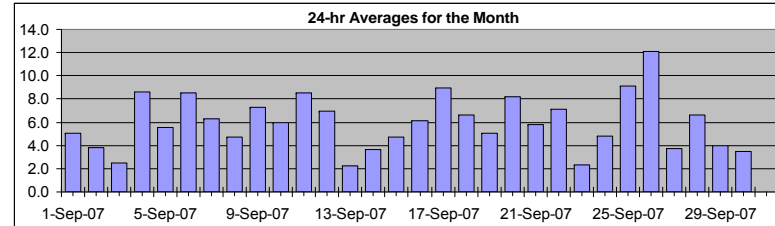
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	21.7	km/hr	26-Sep	10:00 11:00
Maximum 24-hr Value:	12.1	km/hr	26-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	19.3	14.8	8.6	4.4	2.5	1.4	1.0	6.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	2	2	3	3	2	5	3	4	7	6	9	10	10	10	9	11	9	7	3	1	1	2	2	2	5.1	10.6	
2-Sep-07	1	2	3	5	2	2	2	2	2	5	6	6	4	4	4	5	4	6	5	5	7	3	4	2	3.8	7.3	
3-Sep-07	2	2	3	2	1	2	1	2	2	2	3	3	4	2	2	3	2	2	2	3	3	4	4	3	2.5	4.1	
4-Sep-07	2	2	2	4	6	2	4	6	6	10	12	17	17	20	17	17	13	9	11	5	8	8	5	3	8.6	19.5	
5-Sep-07	4	5	5	3	3	2	2	2	1	4	9	13	11	7	8	11	13	11	5	2	3	3	2	3	5.5	13.2	
6-Sep-07	8	9	5	3	6	10	10	12	12	12	14	13	11	12	16	10	11	8	7	3	4	4	3	3	8.5	15.5	
7-Sep-07	3	4	3	2	2	2	2	2	8	13	7	10	13	13	11	10	11	12	10	3	2	3	2	3	6.3	13.2	
8-Sep-07	2	2	2	3	3	3	2	3	2	5	5	5	8	7	12	10	11	8	5	2	2	2	4	4	4.7	11.6	
9-Sep-07	4	4	5	6	5	5	6	4	6	4	9	13	12	12	11	9	10	8	10	8	9	7	5	3	7.3	12.8	
10-Sep-07	9	12	16	16	14	13	6	5	3	3	7	6	6	4	3	5	4	3	1	2	1	1	2	3	6.0	15.9	
11-Sep-07	4	4	3	4	4	3	3	3	4	10	13	14	7	10	9	9	11	14	13	12	14	12	15	10	8.6	14.8	
12-Sep-07	8	6	5	8	11	9	8	8	12	13	12	11	9	8	6	7	8	3	2	2	2	2	3	3	6.9	12.6	
13-Sep-07	2	1	1	1	1	1	2	2	3	3	5	5	5	5	3	3	3	2	1	1	1	2	2	1	2.3	4.9	
14-Sep-07	1	1	1	2	3	2	2	2	3	3	4	5	7	7	7	9	8	5	3	2	3	3	4	3	3.7	9.1	
15-Sep-07	2	2	1	2	3	3	4	4	5	4	5	3	5	13	14	12	7	7	4	3	3	2	3	2	4.7	13.9	
16-Sep-07	2	2	4	4	4	3	4	2	3	2	3	2	11	13	12	7	4	5	3	8	14	13	13	10	6.2	13.6	
17-Sep-07	9	7	3	4	3	3	3	3	4	12	18	16	16	16	17	17	16	14	8	6	3	6	10	5	9.0	17.5	
18-Sep-07	7	13	10	10	6	6	6	9	10	10	9	9	9	8	10	9	6	6	2	1	1	1	2	1	6.7	12.6	
19-Sep-07	1	1	2	2	1	2	2	2	3	6	9	8	7	8	8	7	6	5	7	7	7	9	6	7	5.1	8.6	
20-Sep-07	7	7	4	4	3	2	2	3	2	13	17	16	18	17	9	13	10	10	9	8	7	5	6	5	8.2	17.9	
21-Sep-07	2	3	2	2	3	3	3	5	5	7	7	8	9	9	7	8	12	11	5	12	6	4	3	4	5.8	12.1	
22-Sep-07	3	3	2	3	4	3	3	4	9	10	14	14	14	14	13	10	11	9	8	7	6	3	4	1	7.1	14.4	
23-Sep-07	1	2	1	1	1	2	2	2	1	3	4	6	5	3	2	3	2	3	2	2	2	2	1	3	2.3	5.6	
24-Sep-07	3	3	3	3	3	2	3	4	5	5	6	6	8	8	11	13	6	4	4	3	3	4	2	3	4.8	12.7	
25-Sep-07	3	3	3	3	3	4	10	13	14	16	19	17	14	15	14	16	12	15	10	3	3	3	3	4	9.1	19.5	
26-Sep-07	3	5	5	7	12	16	17	19	20	19	22	21	20	20	16	16	16	14	5	3	3	4	4	4	12.1	21.7	
27-Sep-07	4	4	3	1	1	1	2	1	2	3	3	5	6	6	6	5	4	4	3	9	5	6	2	5	3.8	8.6	
28-Sep-07	2	3	3	3	3	3	2	3	10	14	12	15	14	14	12	13	9	6	5	5	2	1	3	3	6.6	14.6	
29-Sep-07	1	2	3	2	1	2	2	3	2	2	6	6	7	7	6	4	7	7	5	6	4	4	3	2	4.0	7.4	
30-Sep-07	3	1	2	1	1	1	1	1	1	1	3	2	5	5	6	5	6	5	5	5	6	6	6	4	3.5	6.4	
1-hr Average	3.5	3.9	3.6	3.8	3.8	3.9	4.0	4.6	5.6	7.3	9.0	9.5	9.6	9.9	9.4	9.1	8.5	7.6	5.4	4.6	4.5	4.2	4.3	3.6			
Hourly Max	8.9	12.6	15.9	15.8	14.2	16.0	17.3	19.4	20.1	18.7	21.7	20.9	19.5	19.8	16.8	16.8	15.8	14.7	13.1	12.4	13.7	13.1	14.8	10.2			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

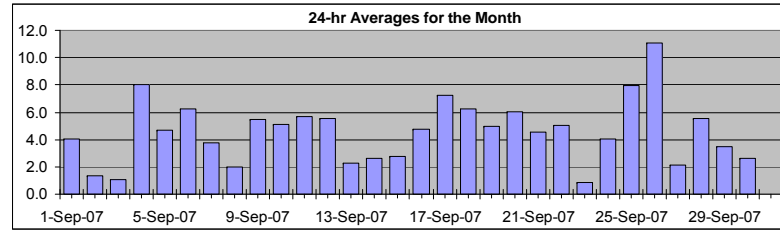
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	21.3	km/hr	26-Sep	10:00 11:00
Maximum 24-hr Value:	11.0	km/hr	26-Sep	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	18.7	14.4	8.3	4.0	2.2	0.8	0.2	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 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	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Sep-07	1	2	3	2	2	5	3	4	7	6	9	10	10	8	10	9	8	7	3	1	1	2	2	2	4.1	10.0		
2-Sep-07	0	2	2	2	1	1	1	1	2	5	6	5	1	3	3	4	4	6	5	5	7	3	2	1	1.3	7.2		
3-Sep-07	1	1	2	1	1	2	1	2	1	2	2	3	3	1	1	2	2	2	2	3	2	3	4	1	1.1	3.7		
4-Sep-07	1	2	1	4	6	2	4	6	6	10	12	17	17	19	16	16	13	9	11	5	8	7	5	3	8.0	19.1		
5-Sep-07	4	5	5	3	3	2	2	1	1	2	8	13	11	7	8	11	13	11	5	2	3	3	2	3	4.7	12.9		
6-Sep-07	8	9	4	2	5	10	10	12	12	12	14	13	11	12	15	10	10	8	6	2	1	4	3	2	6.2	15.0		
7-Sep-07	3	4	3	1	2	2	2	2	7	13	6	9	12	12	10	10	10	12	10	1	2	3	2	3	3.7	12.7		
8-Sep-07	2	2	1	2	3	2	2	2	2	4	4	5	8	5	11	10	10	8	4	1	2	2	4	4	2.0	10.8		
9-Sep-07	4	4	5	6	5	5	6	4	6	4	8	13	11	12	10	9	10	8	10	8	9	7	4	3	5.5	12.6		
10-Sep-07	8	12	16	16	14	13	5	4	2	3	6	6	5	3	3	4	4	2	1	1	0	0	1	2	5.1	15.8		
11-Sep-07	4	4	3	4	4	3	3	3	3	10	12	14	7	10	9	8	11	14	13	12	10	15	10	5.7	14.7			
12-Sep-07	8	6	5	8	11	9	8	8	11	12	11	10	9	7	6	6	7	3	0	2	2	2	3	3	5.5	12.3		
13-Sep-07	1	0	1	1	0	1	1	1	2	3	5	5	4	4	3	2	3	2	1	1	1	2	1	0	2.3	4.7		
14-Sep-07	0	1	1	2	3	2	1	2	3	3	4	4	6	7	7	9	8	5	2	2	3	3	4	3	2.6	8.6		
15-Sep-07	2	1	1	2	2	3	4	4	5	4	5	3	3	12	14	11	7	6	4	2	3	2	3	2	2.8	13.5		
16-Sep-07	2	2	4	4	3	3	4	2	3	2	2	2	10	13	11	7	3	5	3	7	13	13	9	4.8	13.5			
17-Sep-07	9	6	3	3	3	3	2	3	3	11	17	15	15	16	16	17	15	14	8	6	3	5	9	5	7.2	17.2		
18-Sep-07	7	12	10	10	6	5	6	9	10	9	9	8	8	8	9	9	5	6	1	1	1	1	1	1	6.3	12.4		
19-Sep-07	1	1	1	2	1	2	1	2	3	6	8	8	6	8	7	6	6	5	7	7	7	9	5	6	4.9	8.6		
20-Sep-07	7	7	4	4	2	2	2	3	1	13	17	15	17	17	9	13	10	10	9	7	7	5	6	5	6.1	17.5		
21-Sep-07	2	2	2	2	3	2	3	4	5	7	7	7	9	9	6	7	11	11	5	12	6	4	3	4	4.6	11.8		
22-Sep-07	3	3	2	3	4	3	3	3	9	10	13	13	14	14	13	10	11	8	7	7	6	2	3	1	5.0	14.0		
23-Sep-07	1	0	0	0	1	2	1	1	0	3	3	5	1	1	1	1	1	3	1	0	2	1	1	2	0.8	4.8		
24-Sep-07	3	3	3	3	3	1	3	4	5	5	6	6	7	7	10	12	6	4	4	3	3	4	2	3	4.1	12.3		
25-Sep-07	3	3	3	3	3	4	9	13	14	16	19	16	13	14	14	15	12	14	10	3	3	3	3	4	8.0	19.2		
26-Sep-07	3	4	5	7	12	16	17	19	20	18	21	20	19	19	16	16	16	14	5	3	3	4	4	4	11.0	21.3		
27-Sep-07	4	4	3	1	1	1	1	1	1	2	2	5	5	6	6	3	3	4	2	8	5	6	2	4	2.1	8.5		
28-Sep-07	1	3	2	2	3	3	1	3	10	13	12	14	13	13	11	12	9	6	4	5	2	1	3	2	5.5	14.2		
29-Sep-07	1	2	3	2	0	2	2	3	2	1	6	6	7	7	5	4	7	7	4	6	4	4	3	2	3.5	7.0		
30-Sep-07	2	1	1	0	1	0	1	1	0	1	2	0	4	5	6	5	6	5	5	4	5	5	6	4	2.6	6.1		
1-hr Vector	1.8	1.7	1.7	1.3	1.9	1.9	1.9	2.4	2.8	4.5	5.7	5.9	6.4	6.8	6.9	6.8	6.2	5.4	2.6	1.9	1.6	1.8	1.6	1.7				
Hourly Max	8.8	12.4	15.8	15.7	14.1	15.8	17.2	19.2	19.8	18.4	21.3	20.5	18.8	19.5	16.4	16.5	15.6	14.4	12.7	12.4	13.5	13.0	14.7	10.0				

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	357.0	336.9	292.4	213.0	185.5	21.0	4.1	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		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Sep-07	195	180	148	177	277	288	269	279	297	303	301	310	300	283	284	274	314	315	299	206	171	191	189	205	286	WNW
2-Sep-07	183	346	354	40	326	268	199	352	104	136	142	136	177	300	1	352	8	11	3	11	21	29	255	208	19	NNE
3-Sep-07	245	8	307	43	197	189	142	155	152	158	170	188	188	175	140	130	160	109	112	87	39	28	181	235	153	SSE
4-Sep-07	109	120	255	298	276	258	279	278	271	283	283	294	296	299	306	304	316	308	299	274	271	272	258	242	291	WNW
5-Sep-07	248	268	260	228	203	216	206	224	179	293	296	297	300	300	258	266	283	281	257	212	199	197	205	251	269	W
6-Sep-07	277	279	250	203	272	286	285	294	286	291	291	291	299	317	329	355	344	354	39	127	151	196	201	196	299	WNW
7-Sep-07	183	186	199	200	209	200	195	192	292	297	305	307	321	325	327	328	340	333	21	214	187	180	185	175	307	NW
8-Sep-07	176	169	182	192	159	156	188	154	182	270	262	296	326	29	309	339	317	323	304	220	181	187	194	198	286	WNW
9-Sep-07	195	189	188	186	187	189	189	189	187	194	277	290	294	290	292	292	278	293	281	268	268	265	257	240	259	W
10-Sep-07	283	294	295	296	299	296	301	254	234	245	282	271	272	253	232	250	255	216	148	182	239	136	178	208	278	W
11-Sep-07	190	194	195	189	190	186	180	177	6	337	337	354	304	324	315	298	293	302	319	329	348	12	14	3	327	NNW
12-Sep-07	20	359	321	340	350	349	10	358	354	352	356	341	339	317	292	310	326	332	97	172	183	198	191	181	343	NNW
13-Sep-07	191	172	201	210	213	236	203	200	176	176	191	192	186	195	184	185	162	192	160	162	194	194	200	158	187	S
14-Sep-07	222	222	222	205	196	197	197	198	189	192	195	247	277	269	273	281	294	306	164	205	186	183	190	191	241	WSW
15-Sep-07	191	237	201	208	209	204	197	194	188	185	189	189	228	299	304	307	302	315	330	158	205	214	203	214	254	WSW
16-Sep-07	205	213	197	193	201	203	196	200	188	204	244	193	303	291	289	333	276	272	254	281	300	287	292	284	274	W
17-Sep-07	269	261	220	204	193	181	159	177	228	285	292	298	293	291	308	307	301	293	280	266	246	291	10	19	289	WNW
18-Sep-07	21	17	18	13	359	359	358	357	359	3	347	10	358	11	8	19	346	7	9	2	193	220	270	215	5	N
19-Sep-07	176	174	60	189	167	142	96	187	167	178	184	173	187	183	183	174	185	178	171	169	182	190	212	202	180	S
20-Sep-07	188	192	196	186	191	172	209	217	179	293	305	311	328	323	333	308	298	292	275	276	322	314	306	299	296	WNW
21-Sep-07	239	216	191	178	148	168	186	187	193	189	189	187	193	197	207	237	260	269	265	293	258	236	223	227	223	SW
22-Sep-07	227	208	196	160	192	182	194	247	291	301	308	328	327	344	339	321	344	350	4	3	20	356	328	223	324	NW
23-Sep-07	305	268	176	90	95	11	344	228	186	166	170	150	45	182	202	212	258	5	86	132	195	216	192	193	174	S
24-Sep-07	194	198	193	197	197	202	190	187	186	188	188	186	188	228	263	277	236	197	193	200	222	244	214	227	215	SW
25-Sep-07	211	205	197	222	219	255	275	288	283	291	294	302	303	309	304	286	301	297	273	244	213	221	196	197	284	WNW
26-Sep-07	162	259	287	283	290	289	293	290	292	297	305	304	311	302	296	298	300	302	290	241	205	196	196	188	293	WNW
27-Sep-07	196	197	195	180	215	218	249	208	210	277	246	197	187	184	187	315	8	311	298	310	286	280	220	315	247	WSW
28-Sep-07	168	194	211	195	195	204	237	286	325	325	317	322	321	318	312	325	302	305	307	305	314	240	308	292	309	NW
29-Sep-07	208	301	288	195	259	164	167	161	161	143	159	180	175	181	196	172	155	142	136	147	167	182	174	171	170	S
30-Sep-07	260	221	306	15	199	28	196	174	316	293	27	329	2	28	32	48	58	44	29	29	25	36	15	12	24	NNE
Hourly Avg	230	248	248	240	250	257	254	260	275	288	290	295	299	300	300	303	303	307	304	277	274	256	254	241		

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	87.1	74.4	33.9	17.6	11.8	7.5	5.7

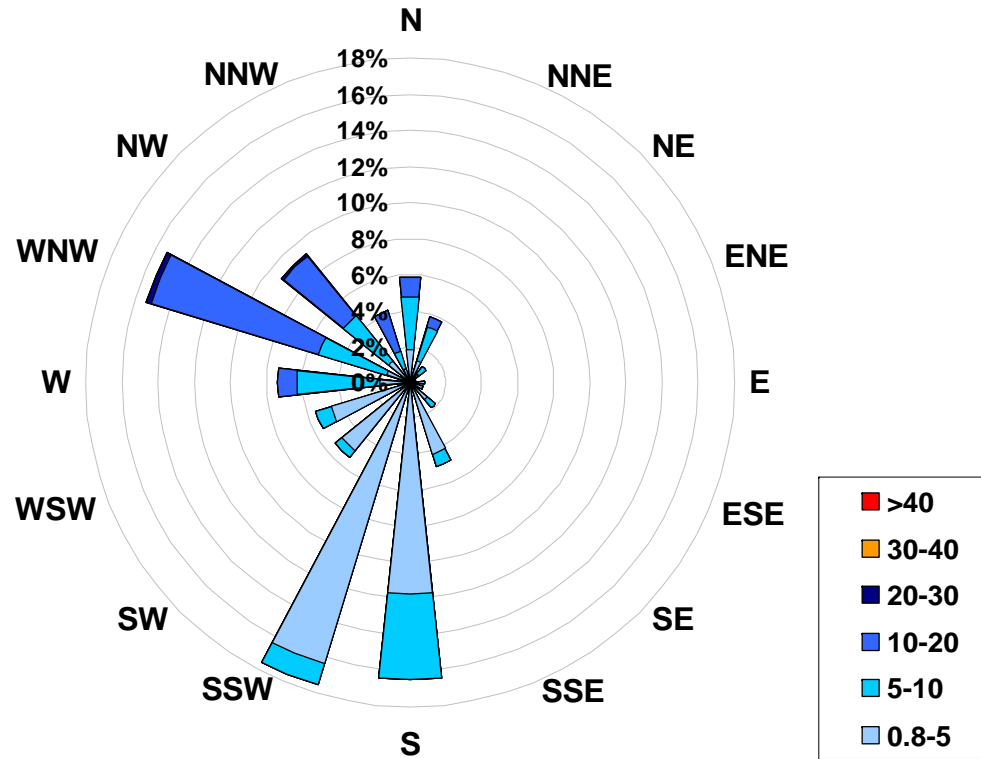
Status Flag Characters

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

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	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-Sep-07	33	28	22	54	40	25	26	29	19	27	21	19	20	31	21	17	20	16	18	82	74	39	13	24		82.2	
2-Sep-07	87	35	55	82	84	60	66	74	40	23	22	27	92	54	74	37	25	15	8	11	8	53	60	56		92.0	
3-Sep-07	54	72	57	64	48	19	40	29	46	29	32	38	47	77	57	43	24	19	14	15	35	43	54	74		77.2	
4-Sep-07	52	51	89	17	14	26	21	13	17	15	18	12	12	12	14	13	13	16	9	14	8	10	10	20		88.6	
5-Sep-07	21	13	14	14	11	16	23	38	28	85	20	12	13	19	21	11	10	17	13	12	15	12	15	25		85.2	
6-Sep-07	11	12	32	14	21	8	7	12	11	16	11	15	12	17	16	18	16	24	35	56	81	18	22	15		81.1	
7-Sep-07	14	16	9	18	15	13	15	14	67	11	29	18	18	17	21	18	15	9	10	73	28	36	12	12		73.2	
8-Sep-07	43	16	73	35	16	38	28	49	32	56	33	45	29	43	30	15	13	12	19	51	26	8	3	6		73.3	
9-Sep-07	7	11	7	7	8	7	7	9	9	11	42	13	21	11	19	17	13	16	11	9	7	9	22	29		42.4	
10-Sep-07	12	8	7	7	8	8	60	42	35	36	21	21	24	49	46	40	34	39	22	33	67	93	89	45		93.2	
11-Sep-07	7	8	6	6	5	7	17	22	46	11	9	10	20	12	19	22	9	9	13	6	18	9	6	9		46.0	
12-Sep-07	10	15	13	10	5	10	21	10	10	11	21	21	19	29	33	38	30	37	84	20	19	17	7	12		84.5	
13-Sep-07	75	77	65	55	60	26	23	48	23	32	16	18	30	29	35	60	44	29	41	75	34	19	56	89		89.0	
14-Sep-07	86	41	24	26	7	10	19	11	16	12	19	47	37	20	22	22	19	16	30	27	39	10	4	9		85.8	
15-Sep-07	13	56	15	13	8	7	6	7	8	10	11	26	46	16	12	13	19	15	40	44	22	14	21	22		55.8	
16-Sep-07	39	36	13	6	13	8	7	27	14	58	37	43	44	15	17	15	38	11	13	16	9	8	8	11		57.9	
17-Sep-07	8	11	12	24	8	16	40	13	41	16	11	15	17	17	14	11	11	8	10	8	13	23	17	15		41.3	
18-Sep-07	11	10	11	13	11	10	11	9	12	16	24	18	24	24	23	12	20	19	50	34	67	58	41	44		66.5	
19-Sep-07	43	47	83	23	44	49	72	30	17	16	13	18	17	15	18	24	16	13	10	11	14	9	33	26		83.0	
20-Sep-07	8	16	8	10	16	29	14	18	54	19	12	13	13	13	11	15	12	14	8	11	12	12	17	13		53.8	
21-Sep-07	32	18	16	22	14	23	11	32	36	7	7	8	9	9	25	28	24	11	9	13	20	16	15	12		36.2	
22-Sep-07	11	11	14	40	19	16	9	38	10	13	16	15	13	14	13	17	14	19	14	20	11	51	27	84		83.8	
23-Sep-07	47	87	79	86	63	21	77	53	77	31	42	36	80	89	55	84	70	33	50	86	54	48	65	19		89.2	
24-Sep-07	7	7	10	6	5	50	12	9	8	10	11	14	19	27	20	16	28	9	7	13	11	22	19	19		50.4	
25-Sep-07	13	8	11	27	15	17	11	9	8	10	10	14	17	19	17	11	14	12	11	19	13	17	11	8		27.5	
26-Sep-07	24	20	25	11	9	9	8	8	9	10	11	12	15	11	13	11	9	9	11	28	10	7	17	20		28.3	
27-Sep-07	8	14	6	26	79	51	30	74	35	37	51	29	14	16	18	64	28	35	65	10	16	18	23	67		79.2	
28-Sep-07	41	13	36	24	19	23	56	47	9	10	13	14	12	16	14	15	17	13	8	8	27	85	57	71		84.7	
29-Sep-07	50	26	46	25	84	22	15	16	57	79	20	20	17	19	19	40	19	11	8	12	12	10	11	18		83.9	
30-Sep-07	49	72	65	88	45	86	73	22	79	52	51	85	14	19	19	25	13	13	19	38	13	35	7	22		88.3	
Hourly Max	87	87	89	88	84	86	77	74	79	85	51	85	92	89	74	84	70	39	84	86	81	93	89	89			

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for September 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	387
5	to	10	192
10	to	20	138
20	to	30	3
30	to	40	0
	>	40	0
Total Non-Zero Values			720

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for September 2007

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
33a	Wapiti	0.2	20.7	1.6	
33b	Wapiti	0.4	20.0	0.9	
37a	Crooked Creek	0.2	20.4	1.6	
37b	Crooked Creek	0.0	19.5	1.1	
47a	Kinuso	0.1	18.7	0.4	
47b	Kinuso	0.3	17.0	0.4	
48a	Deer Mountain	0.2	18.6	0.4	
48b	Deer Mountain	0.2	17.8	0.4	
50a	Clear River	0.3	18.9	0.8	
50b	Clear River	0.2	18.3	0.8	
49a	Grande Prairie HP	0.2	19.7	5.1	
49b	Grande Prairie HP	0.3	20.1	5.2	
1	Silver Valley	0.1	19.7	0.9	08-27-081-11 W6M
2	Bay Tree	0.1	20.5	0.0	13-16-078-13 W6M
3	Forth Creek	0.2	24.6	0.7	04-13-082-07 W6M
4	Gordondale	0.2	22.5	1.1	04-34-078-10 W6M
5	Boone Creek	0.5	19.3	1.2	01-23-076-11 W6M
7	Steeprock Creek	0.3	23.7	0.5	09-35-072-13 W6M
9	Spirit River	0.1	22.0	0.8	08-12-079-07 W6M
10	Woking	0.3	21.0	0.9	01-13-076-07 W6M
11	Webber Creek	0.2	19.2	1.1	09-36-074-09 W6M
12	Hythe	0.2	19.1	1.1	14-36-072-11 W6M
14	Sylvester	0.1	20.0	0.6	08-06-069-12 W6M
16	Beaverlodge	0.2	25.6	1.4	15-36-071-10 W6M
17	Poplar	0.3	21.5	0.6	13-06-073-08 W6M
18	Saddle Hills	0.1	17.8	0.8	04-25-074-07 W6M
19	Wanham	0.3	25.1	0.6	16-22-077-03 W6M
20	Shaftesbury	0.2	17.5	0.5	04-03-082-23 W5M
21	Eaglesham	0.5	18.0	0.5	16-21-079-25 W5M
23	Bear Lake	0.1	19.5	1.6	15-31-072-06 W6M
24	Wembley	0.2	19.4	1.4	12-31-070-08 W6M
25	Pinto Creek	0.0	22.6	0.9	04-24-069-11 W6M
26	Flyingshot	0.2	18.0	1.1	15-36-070-07 W6M

Table 1. PASZA Passive Stations for September 2007 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
27	Grande Prairie I	0.2	20.7	4.2	08-15-071-06 W6M
28	Clairmont Lake	0.2	22.6	1.1	09-06-073-04 W6M
29	Smoky Heights	0.3	23.9	1.5	04-06-075-02 W6M
30	Fitzsimmons	0.1	16.5	0.9	15-36-072-03 W6M
32	Gold Creek	0.2	13.2	1.3	06-33-067-05 W6M
33	Wapiti	0.3	20.3	1.2	02-25-071-03 W6M
34	Puskaskau	0.1	17.0	0.4	15-35-074-25 W5M
35	Jean Cote	0.2	20.1	0.7	12-35-079-21 W5M
36	Guy	0.2	21.9	0.8	03-04-076-22 W5M
37	Crooked Creek	0.1	20.0	1.3	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.1	22.6	0.5	12-01-073-22 W5M
40	McLennan	0.3	21.2	0.9	03-29-077-19 W5M
41	Valleyview	0.1	22.3	0.6	09-30-069-22 W5M
42	Sunset House	0.3	25.0	0.4	05-32-070-19 W5M
43	High Prairie	0.2	20.5	0.7	16-13-074-17 W5M
44	Peavine	0.1	19.6	0.4	03-05-079-15 W5M
45	Gift Lake	0.2	15.6	0.4	10-07-079-12 W5M
46	Little Smoky	0.1	16.9	1.2	12-01-065-21 W5M
47	Kinuso	0.2	17.8	0.4	12-10-073-10 W5M
48	Deer Mountain	0.2	18.2	0.4	15-22-068-09 W5M
49	Grande Prairie HP	0.2	19.9	5.1	17-26-071-06 W6M
50	Clear River	0.2	18.6	0.8	SE-03-084-12 W6M
51	Bear Canyon	0.3	19.0	1.0	SE-28-085-12 W6M
52	Worsley	0.2	18.3	0.8	NE-34-085-07 W6M
53	Hines Creek	0.1	16.6	0.6	SW-09-084-04 W6M
54	Ronan	0.2	20.4	1.5	SE-03-082-04 W6M
55	Cadotte Lake School	N/A	17.8	0.6	NE-23-086-16 W5M
56	Simon Lake Store	0.3	17.3	0.7	SE-32-086-17 W5M
57	Dixonville	0.1	18.6	0.6	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.1	23.2	0.9	NW-19-083-23 W5M
59	Blue Sky	0.6	18.7	1.1	SW-35-081-02 W6M
60	Gerry Lake	0.3	16.8	0.3	SW-22-084-02 W6M
61	Musreau Lake	0.1	22.6	0.5	NE-22-064-05 W6M

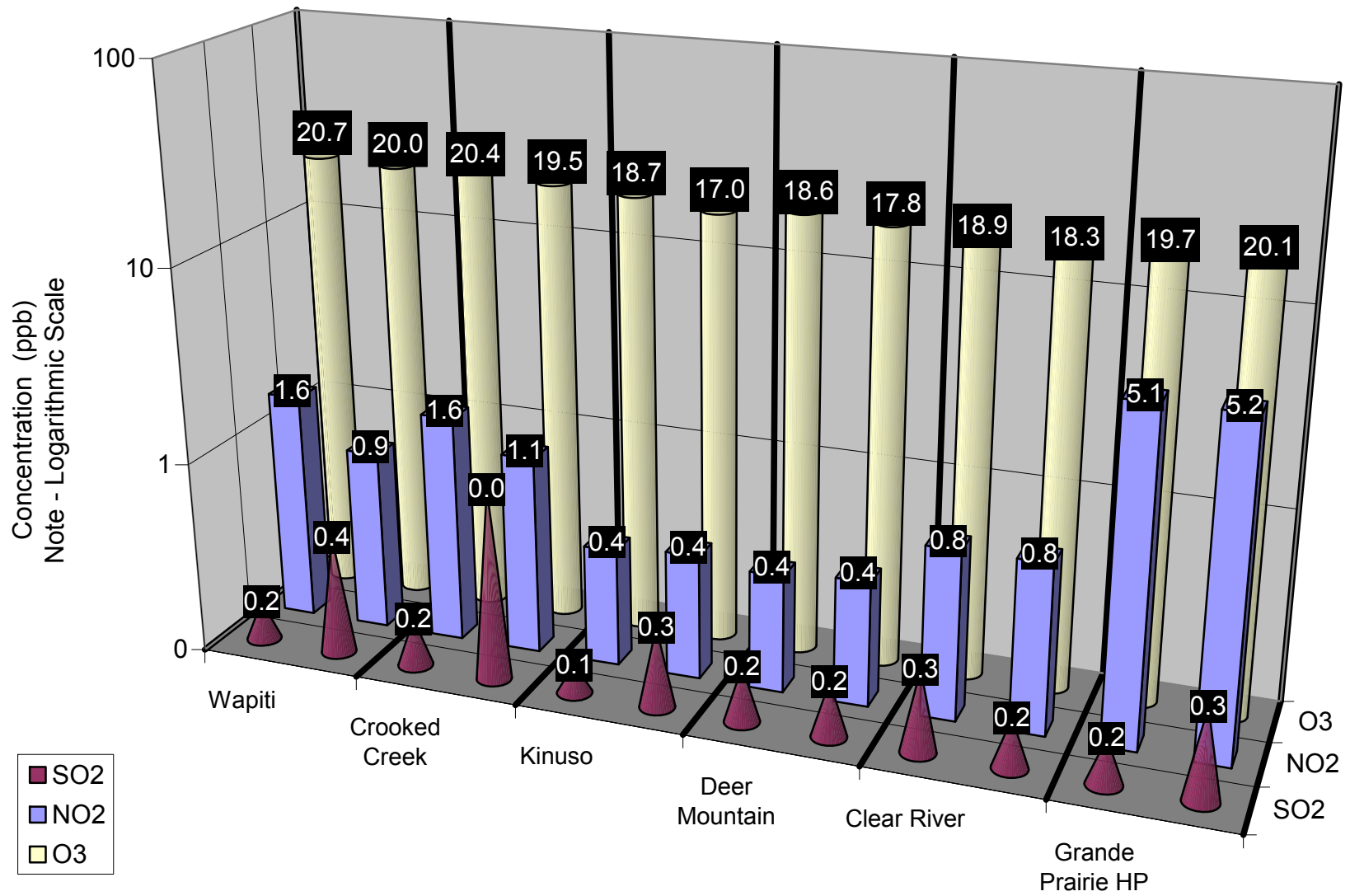


Figure 62. Duplicate Summary Chart

Table 2. Passive Summary Results for September 2007

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for September 2007 (PASZA Zone)			
Mean	0.2	20.0	1.0
Standard Deviation	0.1	2.6	0.8
Minimum	0.0	13.2	0.0
Minimum At	Pinto Creek (#25)	Gold Creek (#32)	Bay Tree (#2)
Maximum	0.6	25.6	6.0
Maximum At	Blue Sky (#59)	Beaverlodge (#16)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.3	26.7	2.4
PASZA Beaverlodge passive	0.2	25.6	1.4
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.1	22.0	6.4
PASZA Grande Prairie passive	0.2	19.9	5.1

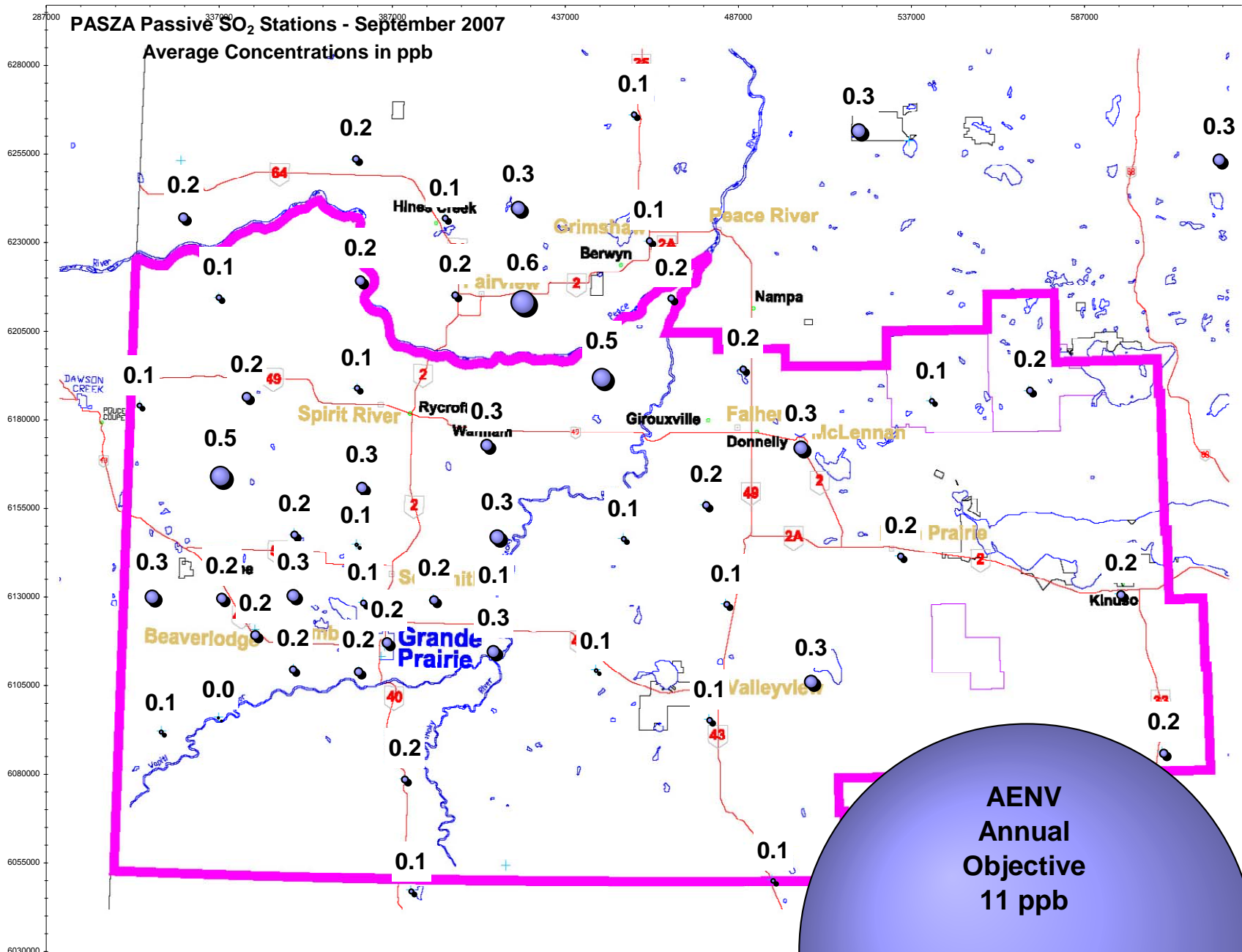


Figure 63. SO₂ Bubble Chart

Alberta Ambient Air Quality Objective - Annual SO₂ Objective is 11 ppb

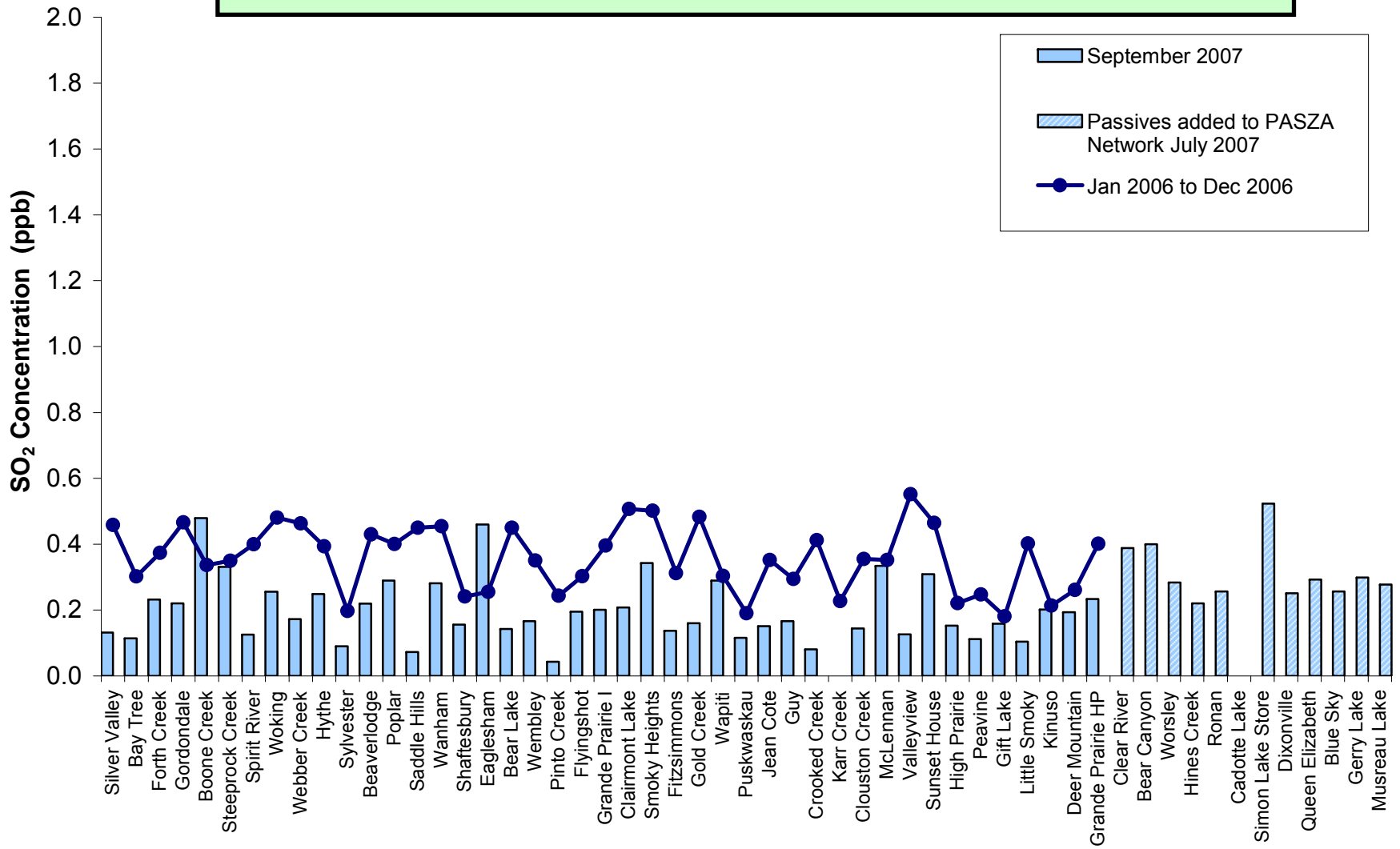


Figure 64. SO₂ Summary Chart

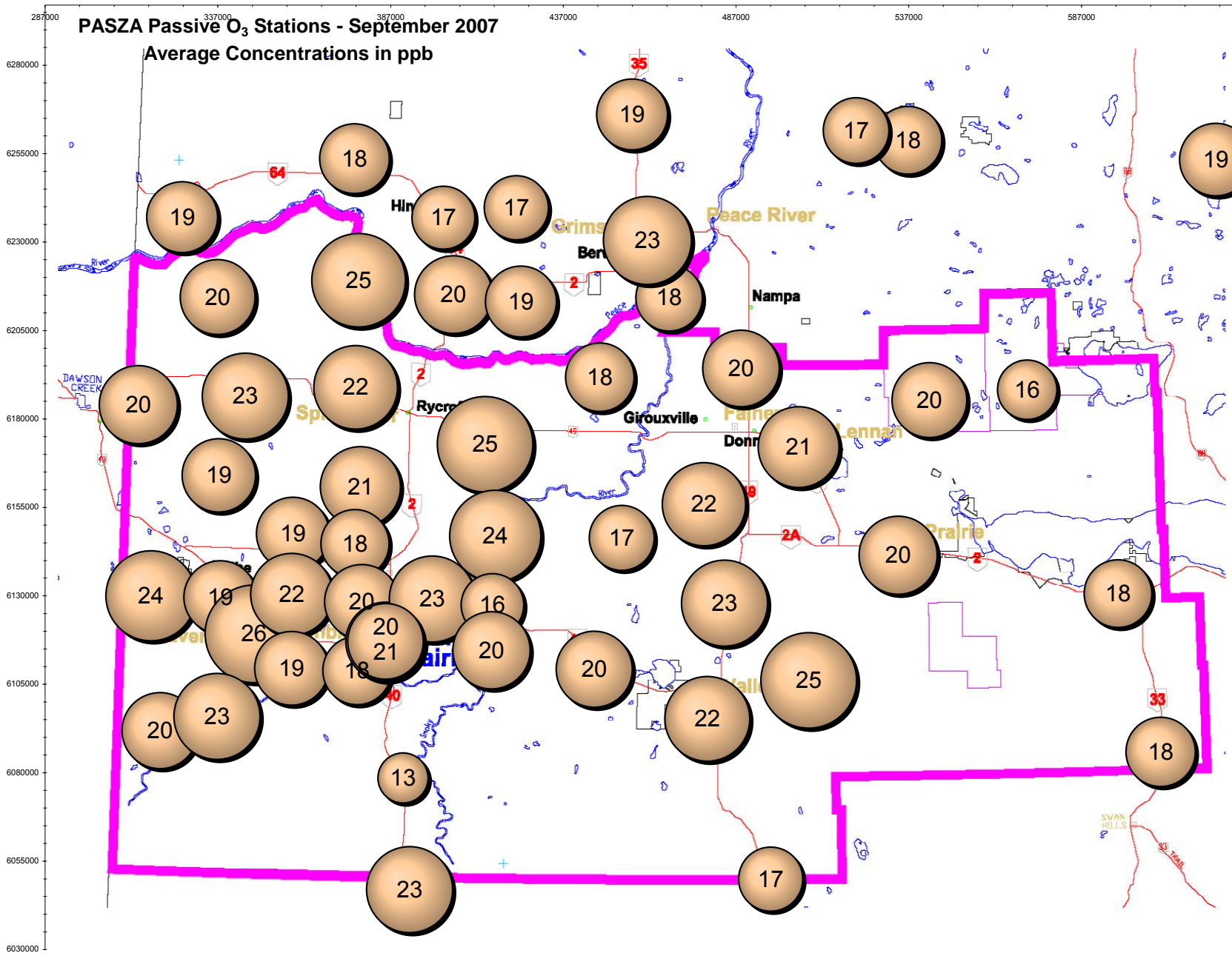


Figure 65. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

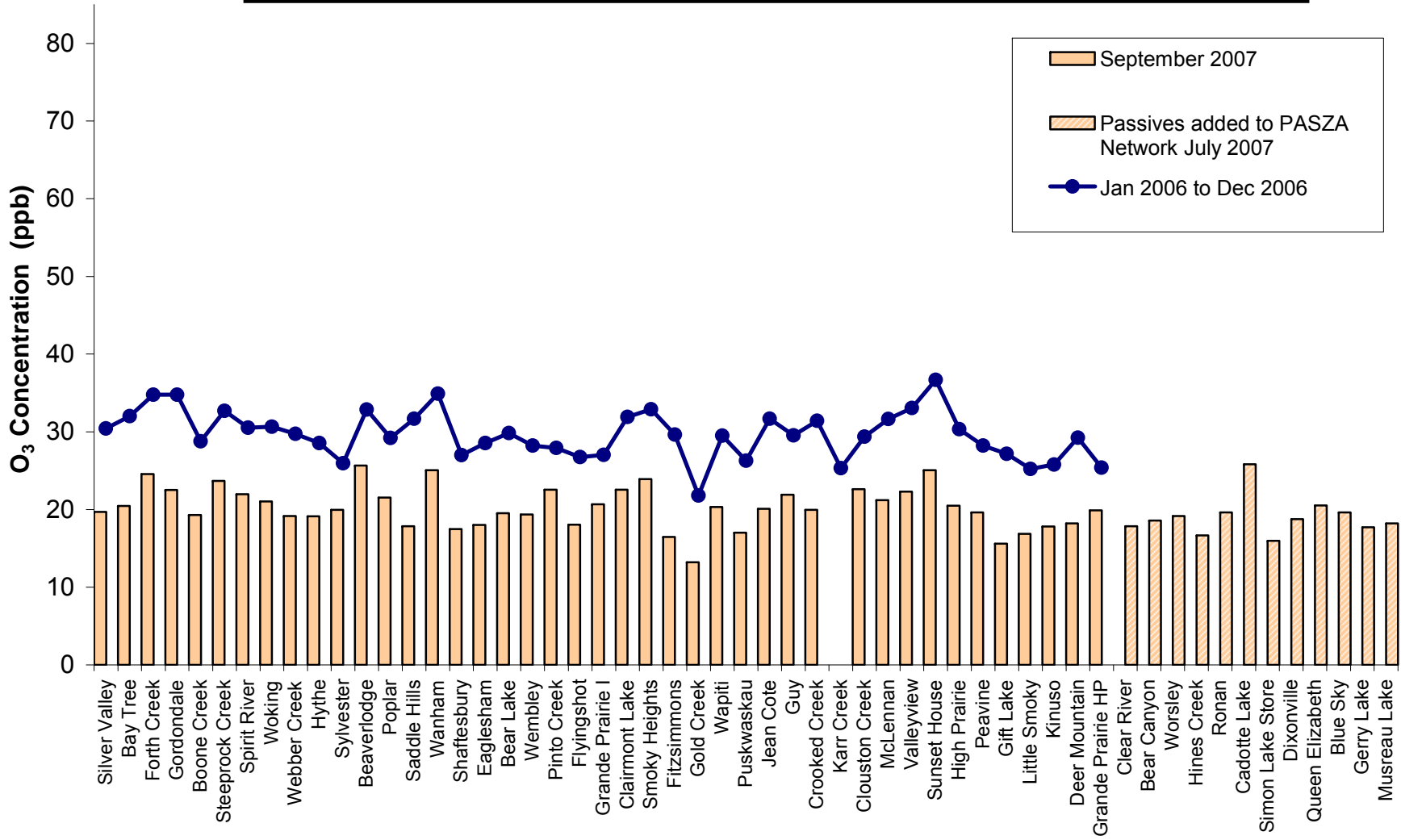


Figure 66. O₃ Summary Chart

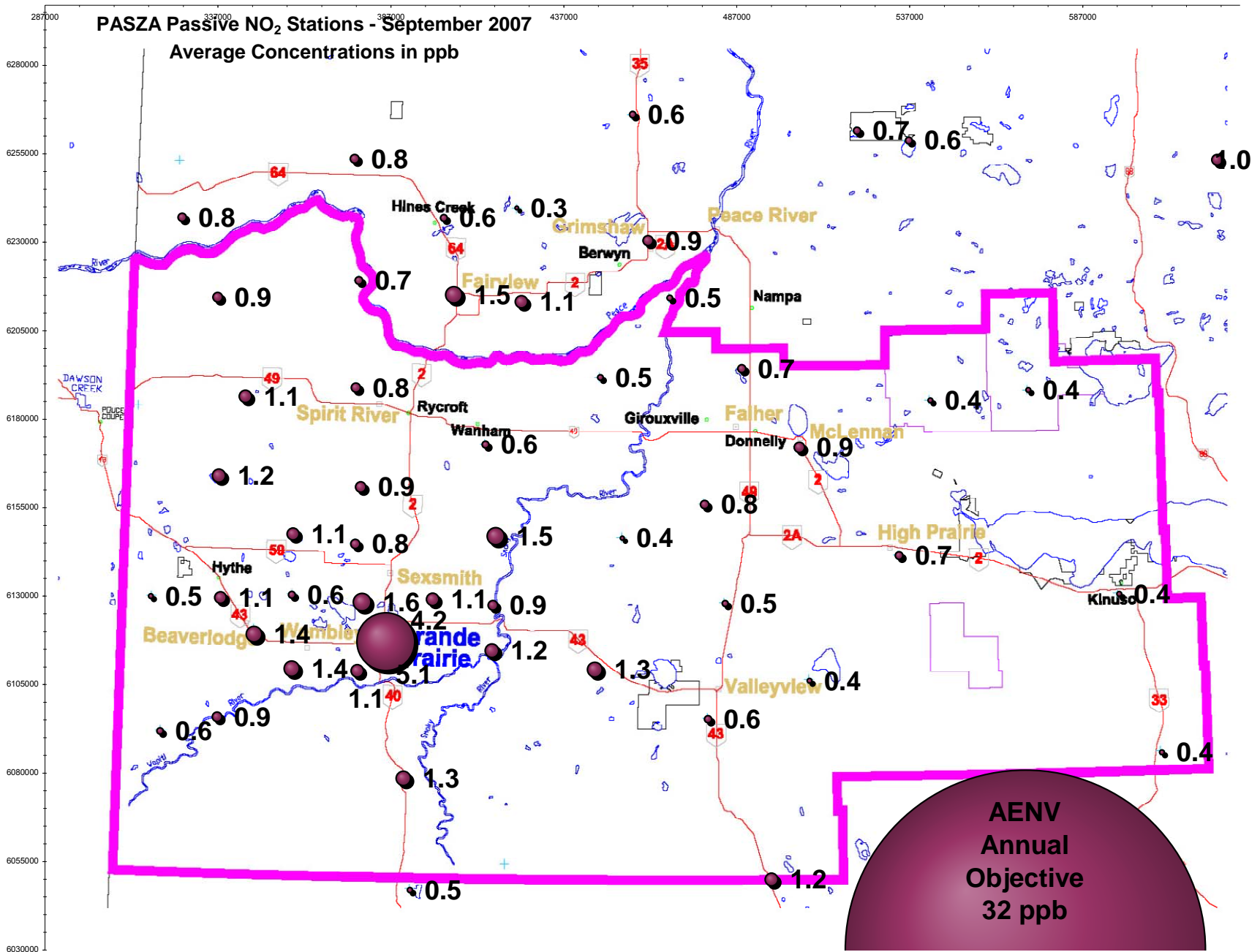


Figure 67. NO₂ Bubble Chart

Alberta Ambient Air Quality Objective - Annual NO₂ Objective is 32 ppb

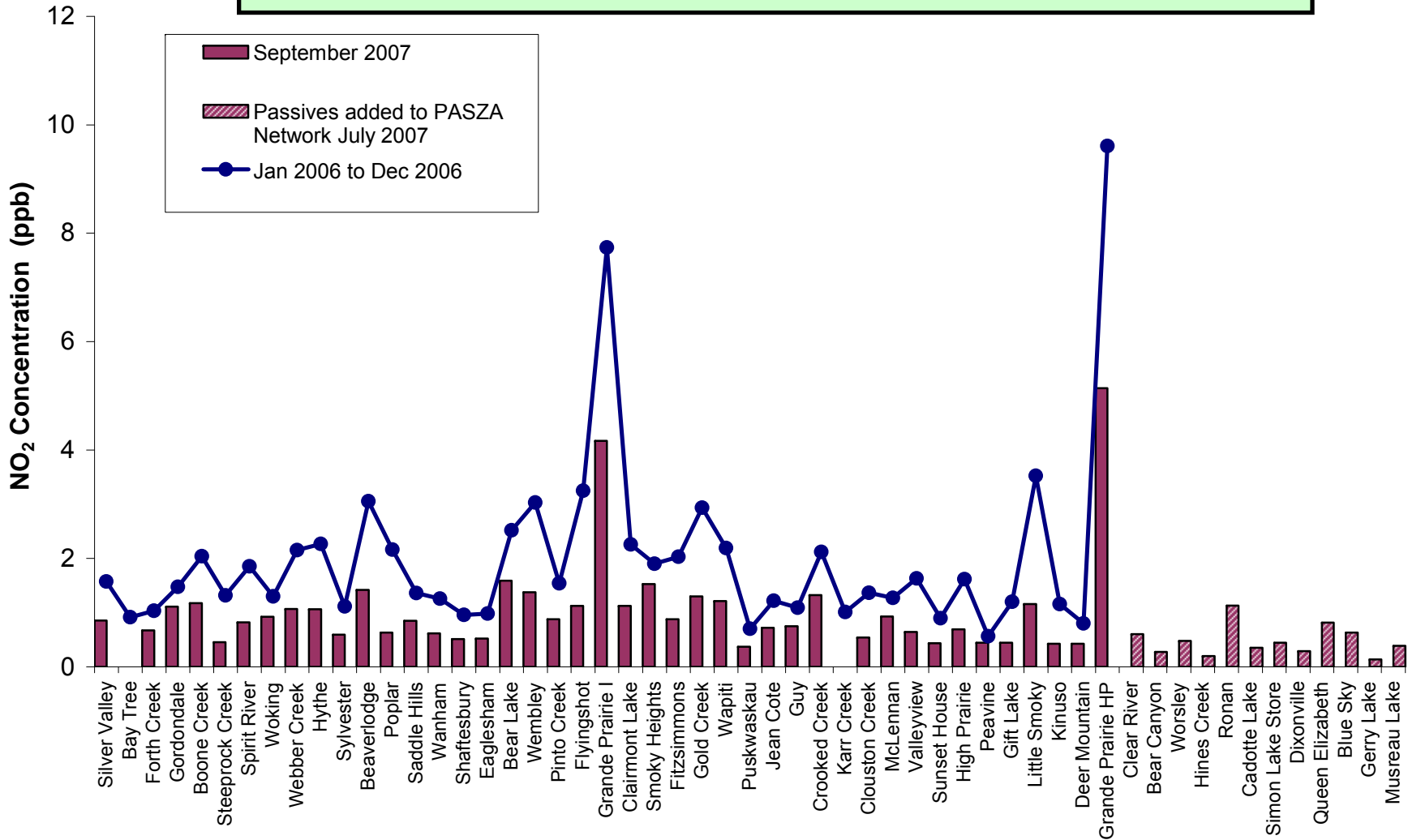


Figure 68. NO₂ Summary Chart

September 2007 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS and TEOM

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃ and TEOM

PASZA – Falher (Portable) Station with the following calibrations:

SO₂, TRS, NO, NO₂, NO_x, O₃,

PASZA – Valleyview Station with the following calibrations:

SO₂, H₂S

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 10, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:50	End Time (MST)	13:50
Barometric Pressure	0.929 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	50.3 ppb	Cal Gas Expiry Date	1/2/2009
		Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	<u>Before</u>		<u>After</u>
Calculated slope	1.022539	Calculated slope	1.014477
Calculated intercept	-1.725110	Calculated intercept	-0.415416
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.3		7.3	
Coefficient	0.785		0.785	
Pressure	650.4	mm Hg	659.3	mm Hg
Flow	0.455	lpm	0.460	lpm
Lamp Voltage	809	v	44688	v

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4988	39.83	398.5	392.9	1.0141
4992	19.89	199.6	197.4	1.0110
4994	9.98	100.3	99.8	1.0047
4994	0.00	0.0	-0.1	As Found Zero
4994	39.93	399.0	392.9	As Found Span
Average Correction Factor				1.0099

Calculated value of As Found Response: 400.2 ppb Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	-1.6	ppb	-0.3	ppb
Auto span	348.0	ppb	344.6	ppb

Notes: No adjustments or maintenance required

Calibration Performed By: Conor Whiteley

Calibration Summary

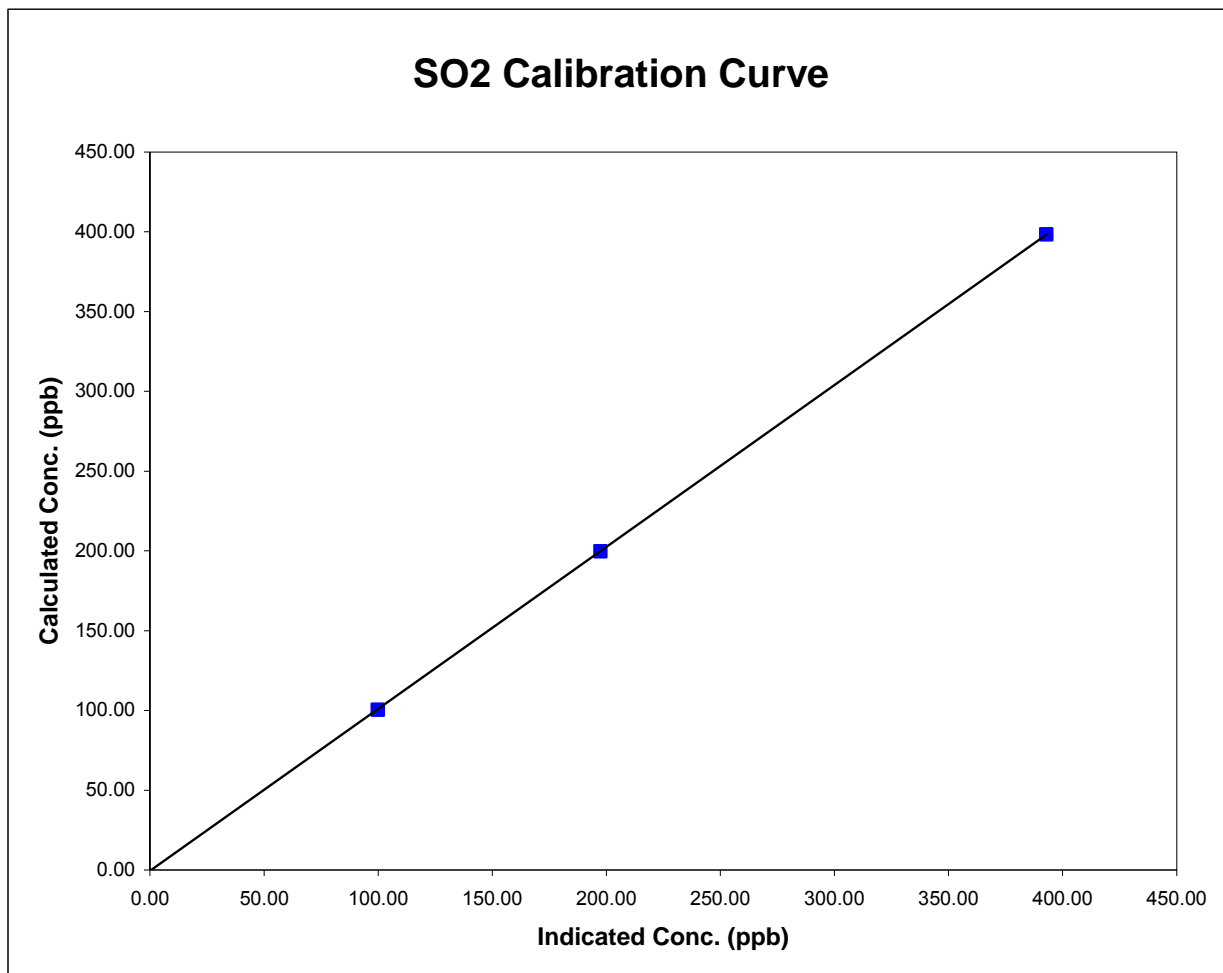
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

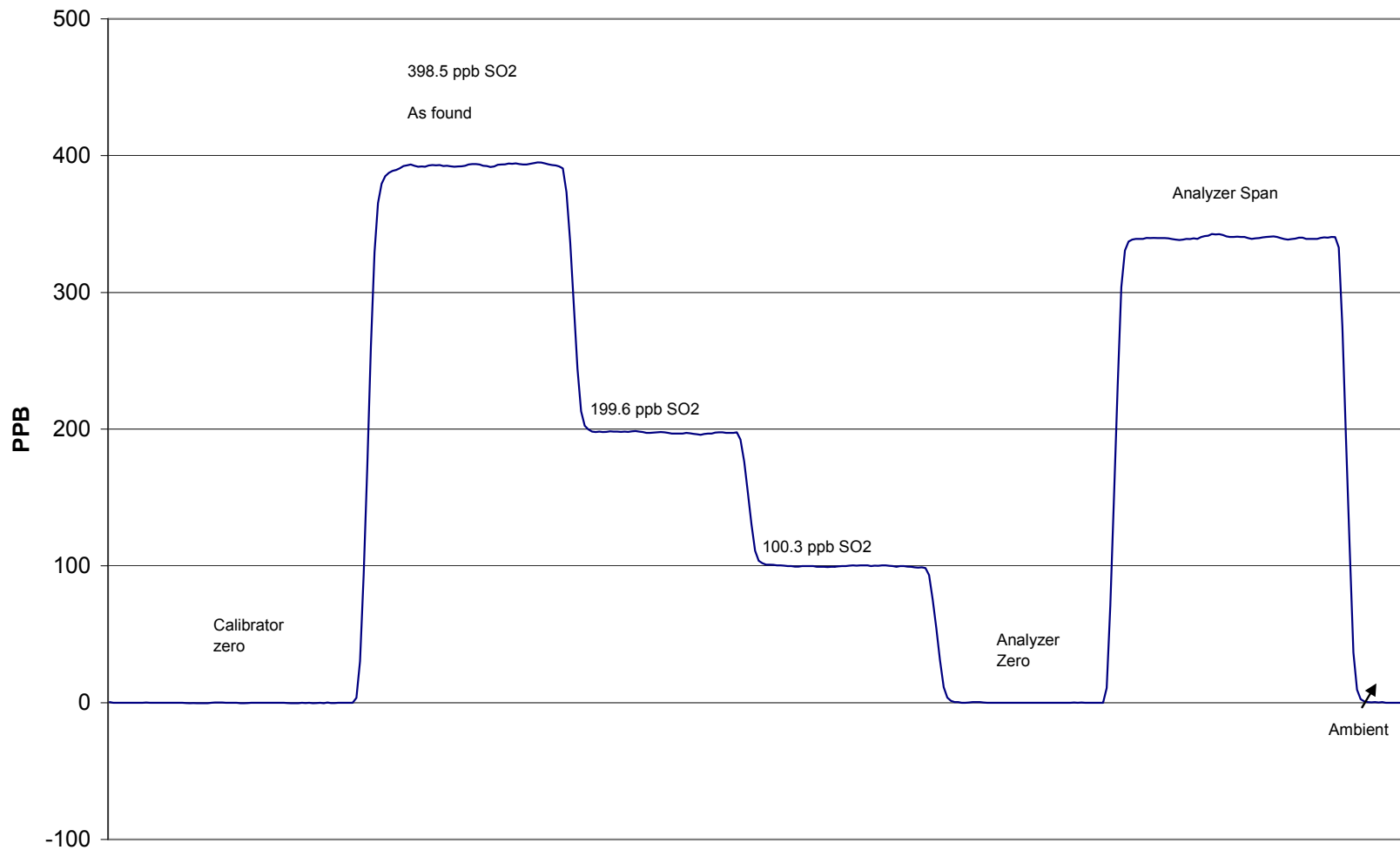
Calibration Date	September 10, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:50	End Time (MST)	13:50
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
398.5	392.9	1.0141	Correlation Coefficient	0.999991
199.6	197.4	1.0110		
100.3	99.8	1.0047	Slope	1.014477
			Intercept	-0.415416



Henry Pirker SO2 Calibration



September 10, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**

Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	7:55	End Time (MST)	12:15
Barometric Pressure	0.931 Atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	1/2/2009
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL16161

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO2	NOx	NO
Before	Data Slope	1.029535	1.027672	1.027195
	Data Offset	-0.494487	-0.906270	-0.631709
After	Data Slope	0.988622	0.985996	0.983626
	Data Offset	-0.032458	-1.428598	-1.485390
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	Teco 42C	Analyzer serial #	508011073
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Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	10.6	ppb	7.8	mV
NOx background	11.1	ppb	8.2	mV
NO coefficient	0.678		0.678	
NOx coefficient	1.000		1.000	
Chamber Temp	49.8	Deg C	49.9	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	318.0	Deg C
Vacuum	162.1	mm Hg	168.1	mm Hg

Notes:

Calibration Report



Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date: **September 13, 2007** Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	0.1	0.0	0.1	N/A	N/A
1	4993	39.83	387.0	387.0	0.0	385.2	385.3	0.0	1.0045	1.0042
2	4993	19.91	194.2	194.2	0.0	195.2	195.3	-0.1	0.9948	0.9943
3	4993	9.92	96.9	96.9	0.0	100.0	100.5	-0.1	0.9695	0.9644
AFZ	4993	0.00	0.0	0.0	0.0	0.1	0.0	0.1	0.0000	0.0000
AFS	4993	39.93	388.0	388.0	0.0	385.2	385.3	0.0	1.0070	1.0068
Average Correction Factor									0.9896	0.9876

As Found Concentrations: NO_x= 384.3 NO= 384.7 As Found Percent Change NO_x= -1.0% NO= -0.8%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.84 ccm

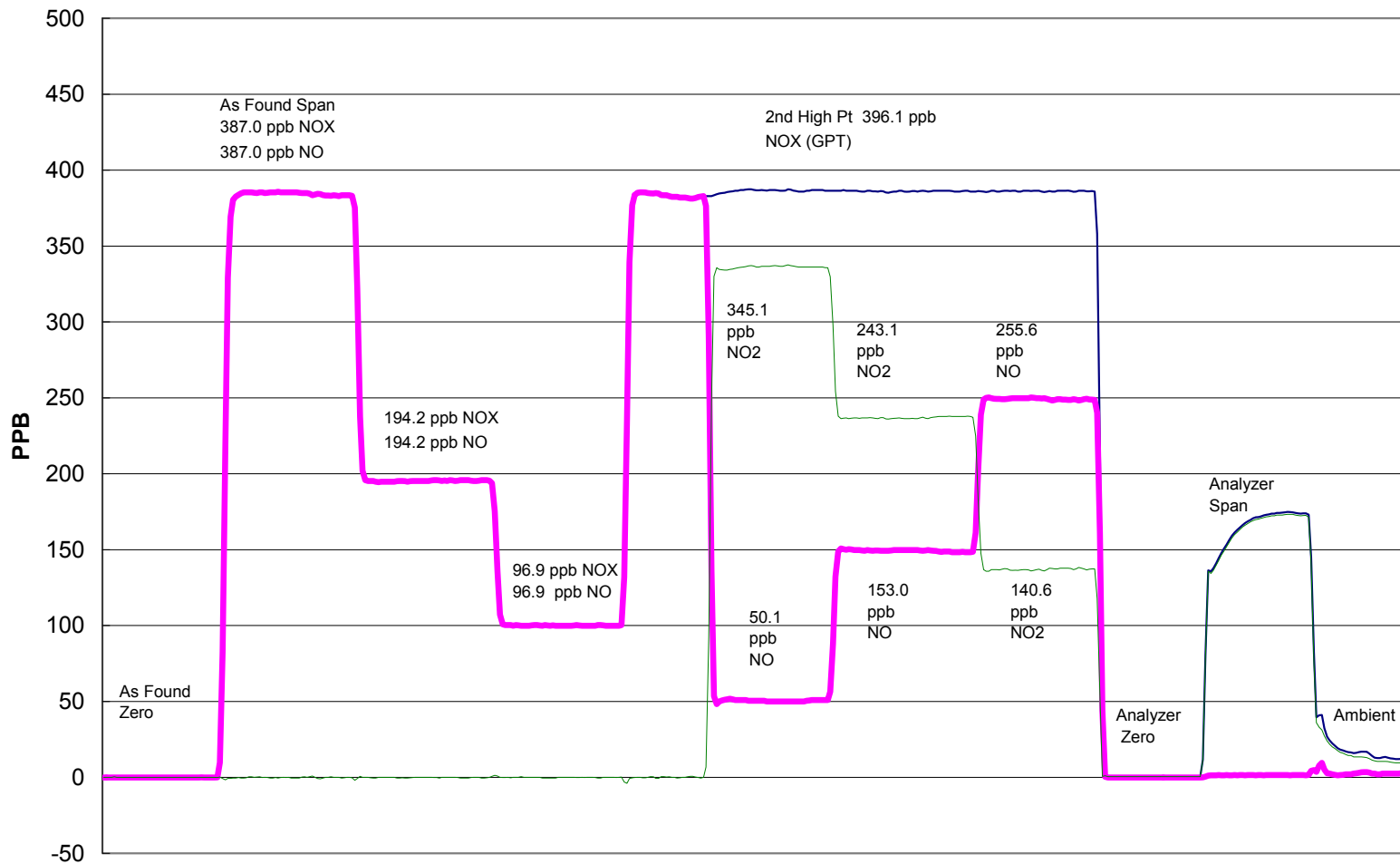
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	379.5	376.4	3.1	384.2	384.2	0.1	0.9878	0.9798	N/A	N/A
300	379.5	48.0	331.5	386.8	50.3	336.6	0.9811	0.9541	0.9849	101.5%
200	379.5	145.6	233.9	386.0	149.6	236.6	0.9831	0.9737	0.9885	101.2%
100	379.5	243.8	135.7	386.2	249.4	136.9	0.9827	0.9777	0.9909	100.9%
Average Correction Factor							0.9823	0.9685	0.9881	101.2%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.0	1.0	1.0	ppb	0.5	0.7	1.0	ppb
Auto span	162.9	162.1	0.9	ppb	169.6	170.0	0.0	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



September 13, 2007

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **PASZA**

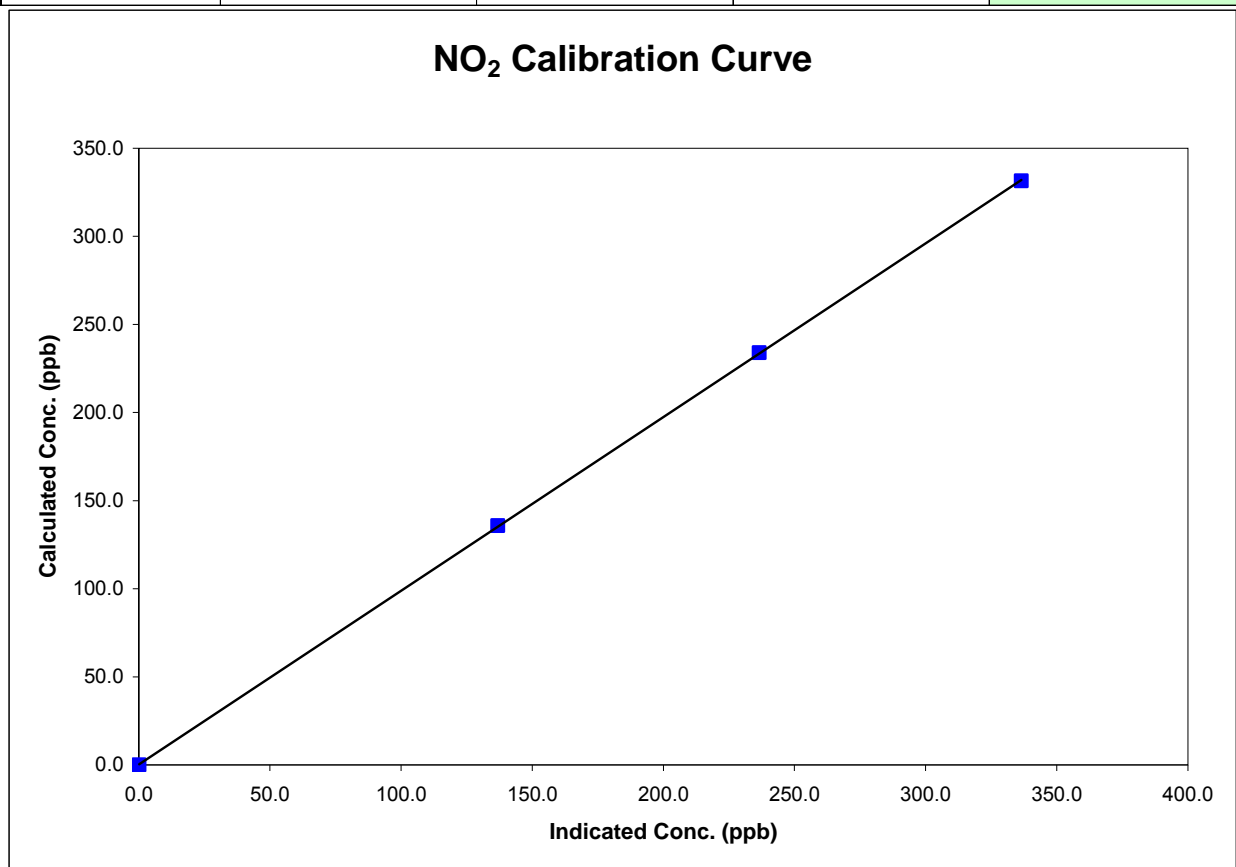


Station Information

Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:55	End Time (MST)	12:15
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999988
331.5	336.6	0.9849		
233.9	236.6	0.9885		
135.7	136.9	0.9909		
			Slope	0.985344
			Intercept	0.324576



Calibration Summary

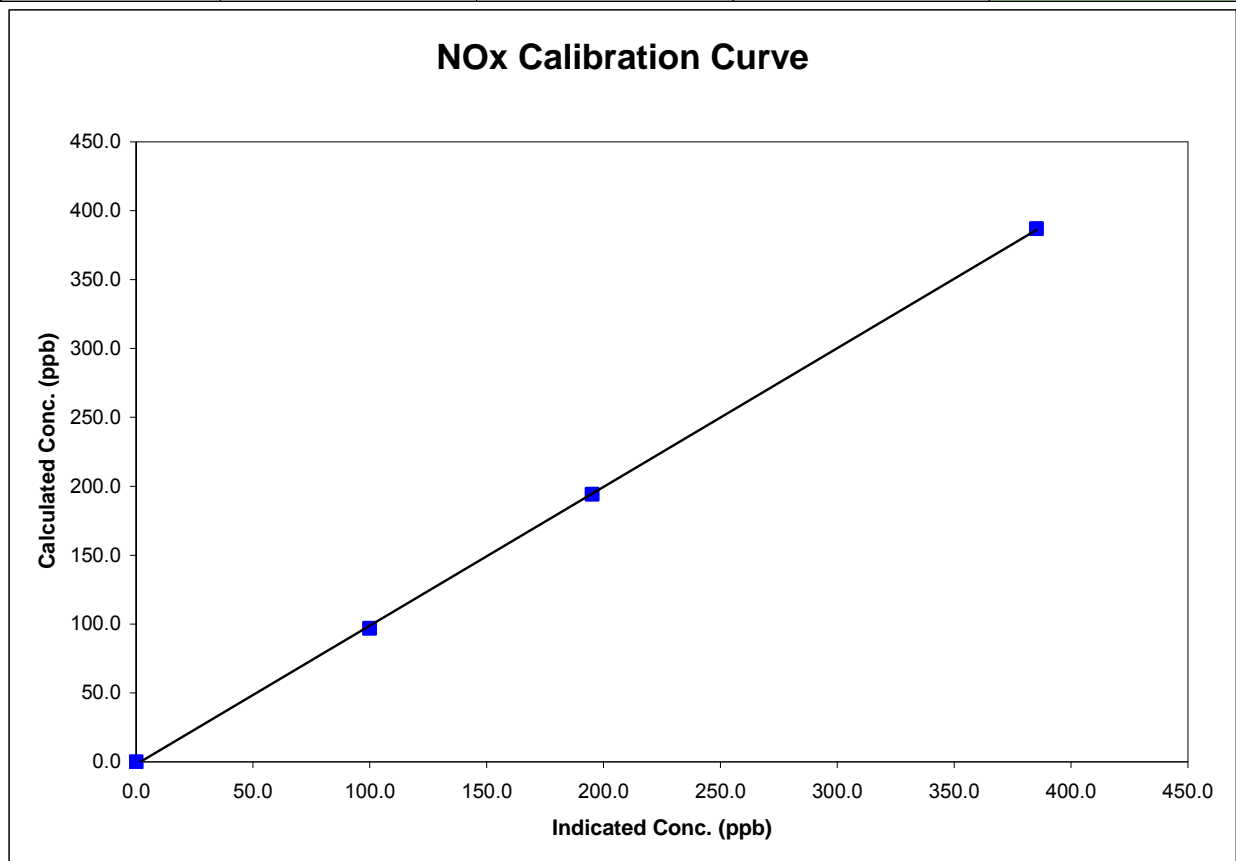
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:55	End Time (MST)	12:15
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999905
387.0	385.2	1.0045		
194.2	195.2	0.9948		
96.9	100.0	0.9695		
			Slope	1.007094
			Intercept	-1.815009



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

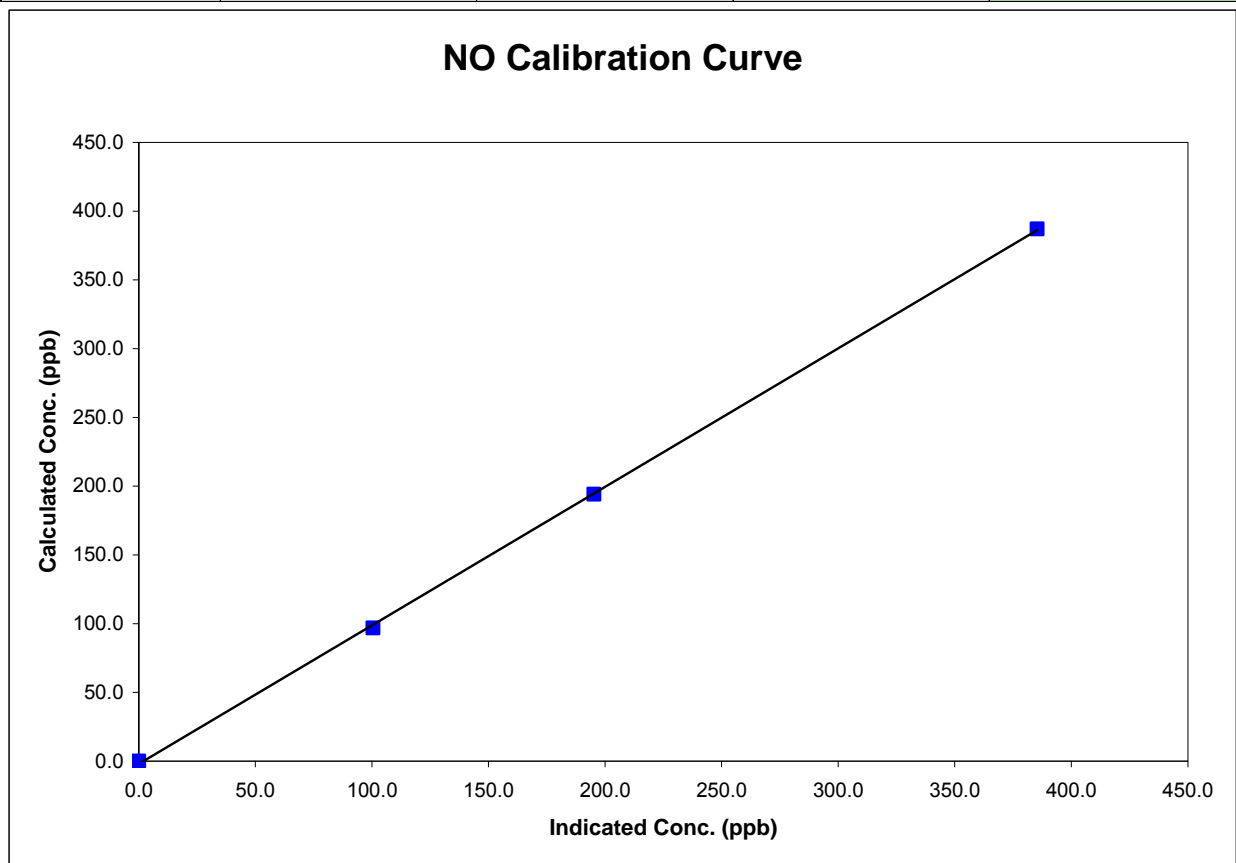


Station Information

Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:55	End Time (MST)	12:15
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
387.0	385.3	1.0042	Correlation Coefficient	0.999873
194.2	195.3	0.9943		
96.9	100.5	0.9644	Slope	1.007052
			Intercept	-1.962039



Calibration Report

Parameter **O3**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	11:44	End Time (MST)	15:06
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>

Calculated slope	1.001517	Calculated slope	0.963401
Calculated intercept	0.135359	Calculated intercept	0.440702

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.7	ppb	-0.7	ppb
slope	1.103		1.042	
O3 Lamp temp	71	mV	71.1	mV
Intensities	94900/72800	mV	97452/75415	mV
Pressure	692.6	inches Hg	702.9	inches Hg
Flow A	664	ccm	669	ccm
Flow B	674	Deg C	684	Deg C

Calibration Data

Referenced concentration (ppb)	Dilution air flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
0	4992	0.0	0.6	N/A
300	4992	331.5	345.0	0.9609
200	4992	233.9	241.0	0.9704
100	4992	135.7	139.2	0.9747
0	4992	0.0	0.6	As found zero
300	4992	331.5	365.2	As found span
Average Correction Factor				0.9686

Calculated value of As Found Response: 365.3 ppm Percent Change of As Found: 10.2%

	before calibration		after calibration	
Auto zero	-1.9	ppb	-1.2	ppb
Auto span	315.6	ppb	287.1	ppb

Notes: Adjusted SpanCalibration Performed By: Conor Whiteley

Calibration Summary

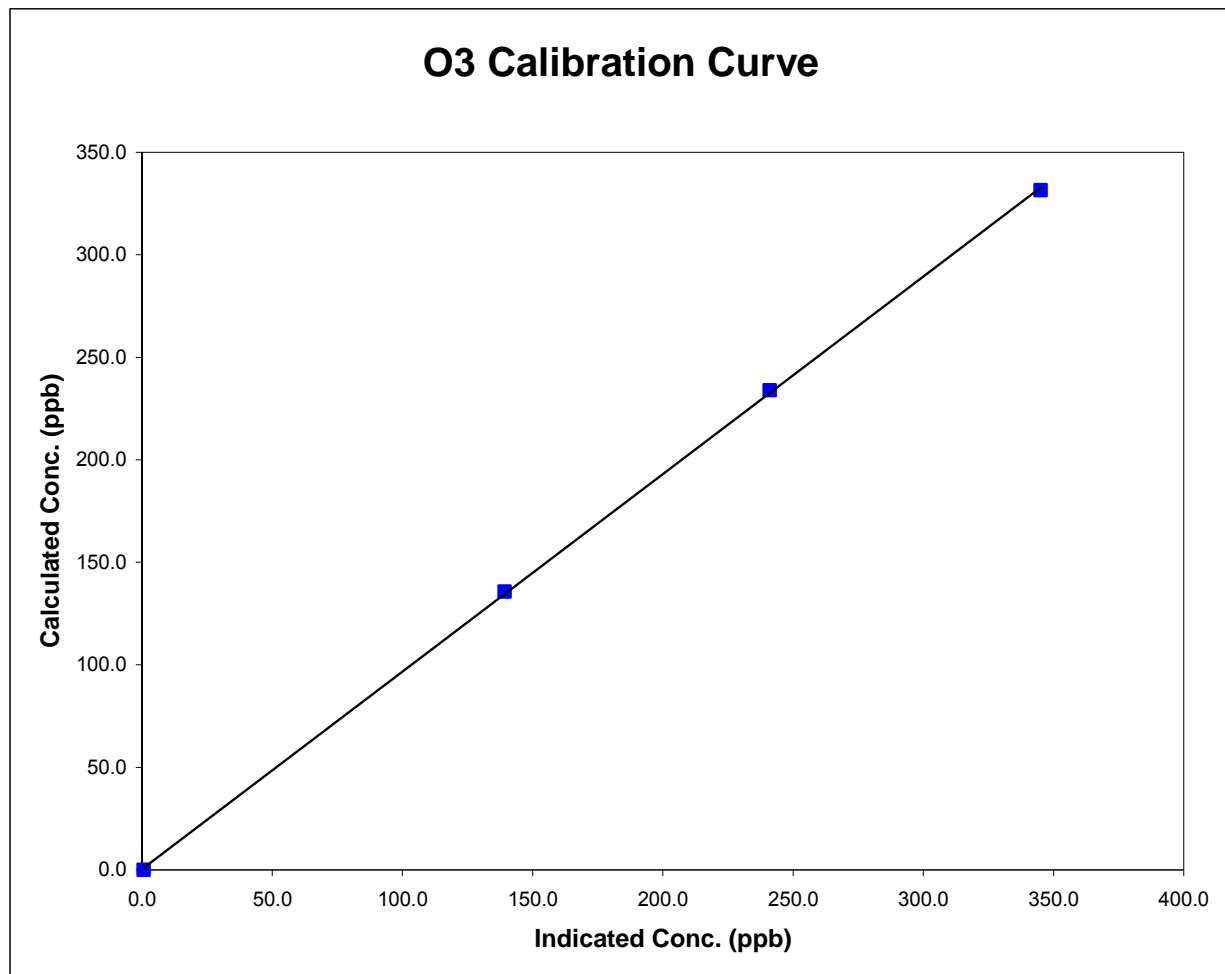
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

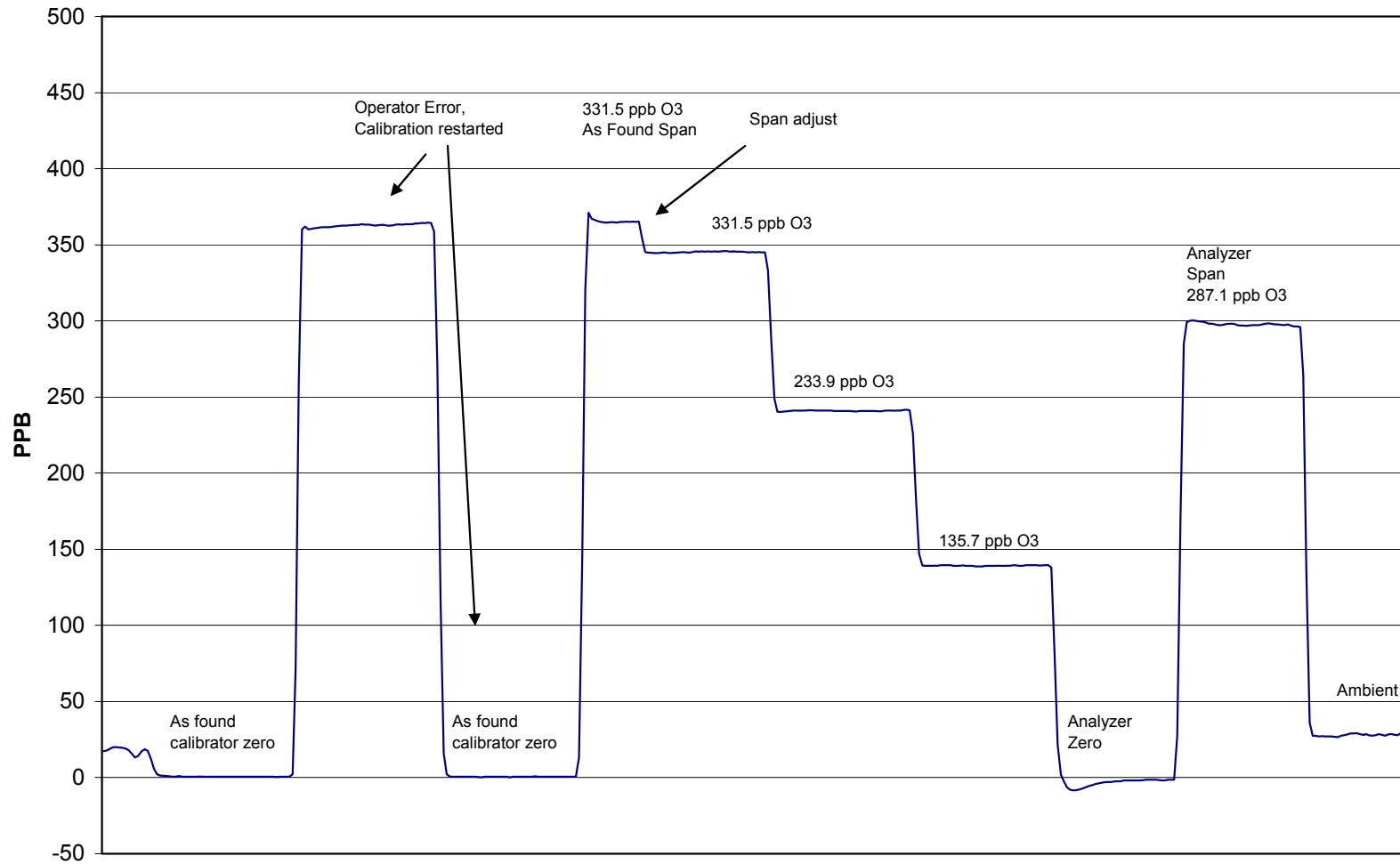
Calibration Date	September 13, 2007	Previous Calibration	August 1, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:44	End Time (MST)	15:06
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	NA		
331.5	345.0	0.9609	Correlation Coefficient	0.999906
233.9	241.0	0.9704		
135.7	139.2	0.9747	Slope	0.963401
			Intercept	0.440702



Henry Pirker O3 Calibration



September 13, 2007

Calibration Report



Parameter **CO**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 13, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:10	End Time (MST)	17:00
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.026012	Calculated slope	0.961165
Calculated intercept	-0.161590	Calculated intercept	-0.619417
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.049		1.049	
CO zero setting	9.913		9.907	
Sample pressure	686.7	mm Hg	682.5	mm Hg
Sample Flow	1.092	LPM	1.079	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)
4994	0.00	0.00	0.73	N/A
4994	39.97	23.82	25.51	0.9340
4994	19.91	11.91	12.89	0.9242
4994	9.98	5.98	6.86	0.8728
4994	0.00	0.00	0.73	As Found Zero
4994	39.94	23.80	25.51	As Found Span
Average Correction Factor				0.9103

Calculated value of As Found Response: 25.258 ppm Percent Change of As Found: -6.1%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.00	ppm
Auto span	19.83	ppm	18.81	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Conor Whiteley

Calibration Summary

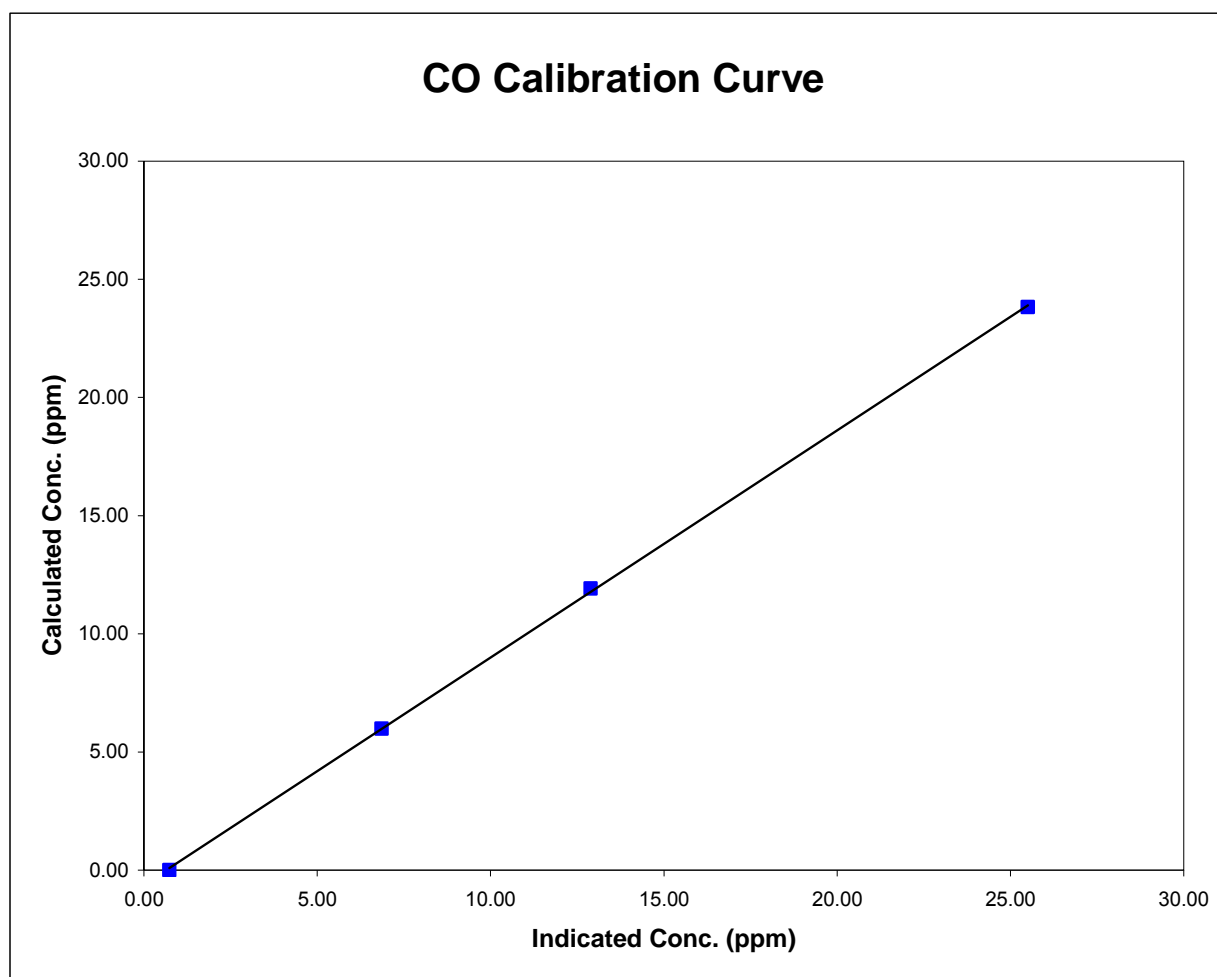
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

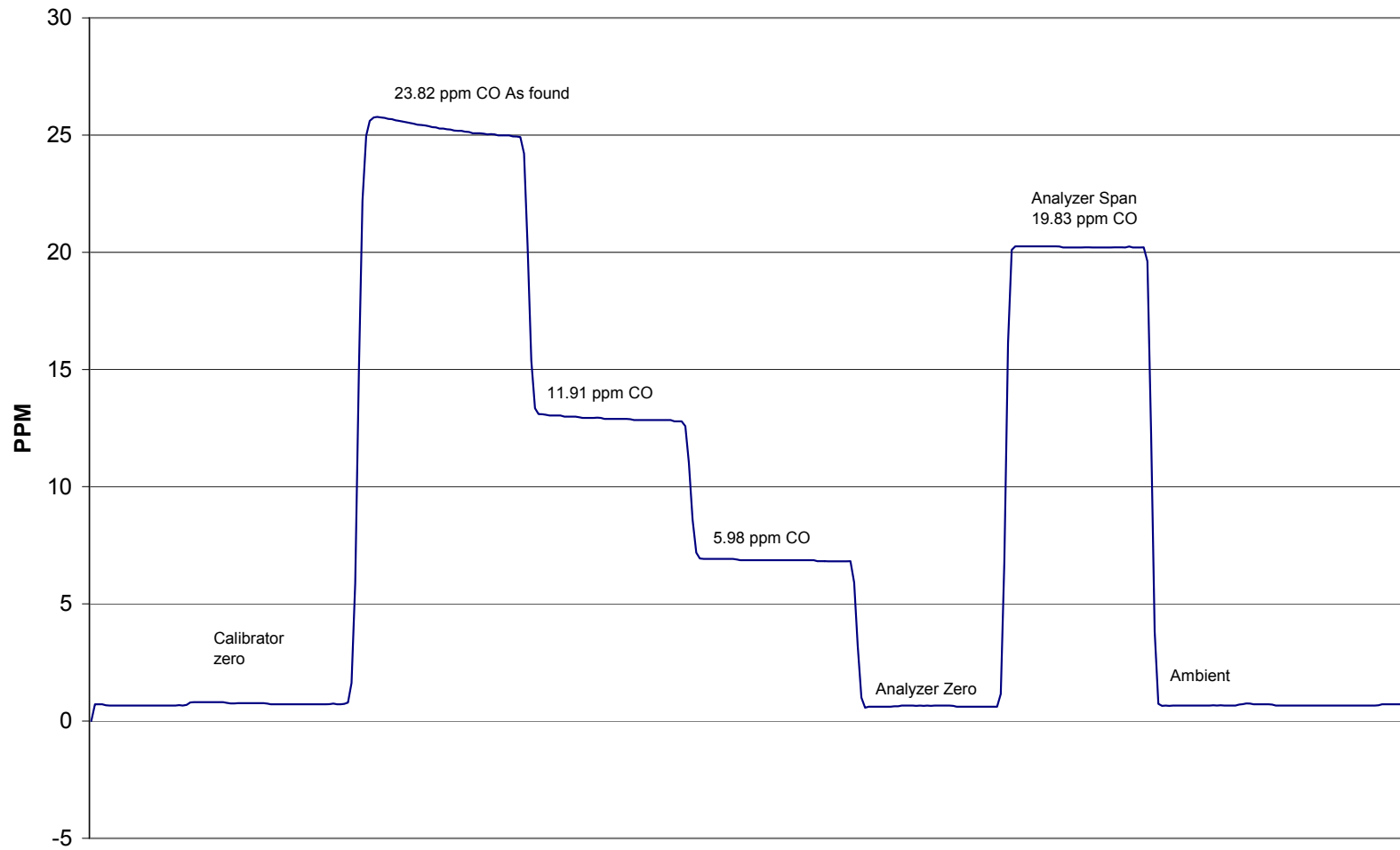
Calibration Date	September 13, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:10	End Time (MST)	17:00
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.731	N/A		
23.823	25.506	0.9340	Correlation Coefficient	0.999893
11.913	12.889	0.9242		
5.983	6.856	0.8728	Slope	0.961165
			Intercept	-0.619417



Henry Pirker CO Calibration



September 13, 2007

Calibration Report
 Parameter **CO**
 Air Monitoring Network **PASZA**
Station Information

Calibration Date	September 17, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
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)	13:10
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.026012	Calculated slope	1.001912
Calculated intercept	-0.161590	Calculated intercept	-0.614606
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.049		1.049	
CO zero setting	9.907		9.913	
Sample pressure	682.5	mm Hg	691.3	mm Hg
Sample Flow	1.079	LPM	1.085	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)
4994	0.00	0.00	0.54	N/A
4994	39.97	23.82	24.35	0.9783
4994	19.91	11.91	12.54	0.9500
4994	9.98	5.98	6.66	0.8980
4994	0.00	0.00	0.54	As Found Zero
4994	39.94	23.80	24.35	As Found Span
Average Correction Factor				0.9421

Calculated value of As Found Response: 24.272 ppm Percent Change of As Found: -2.0%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.05	ppm
Auto span	19.83	ppm	19.41	ppm

 Notes: Re-Calibrating with correct zero air supply

 Calibration Performed By: Conor Whiteley

Calibration Summary

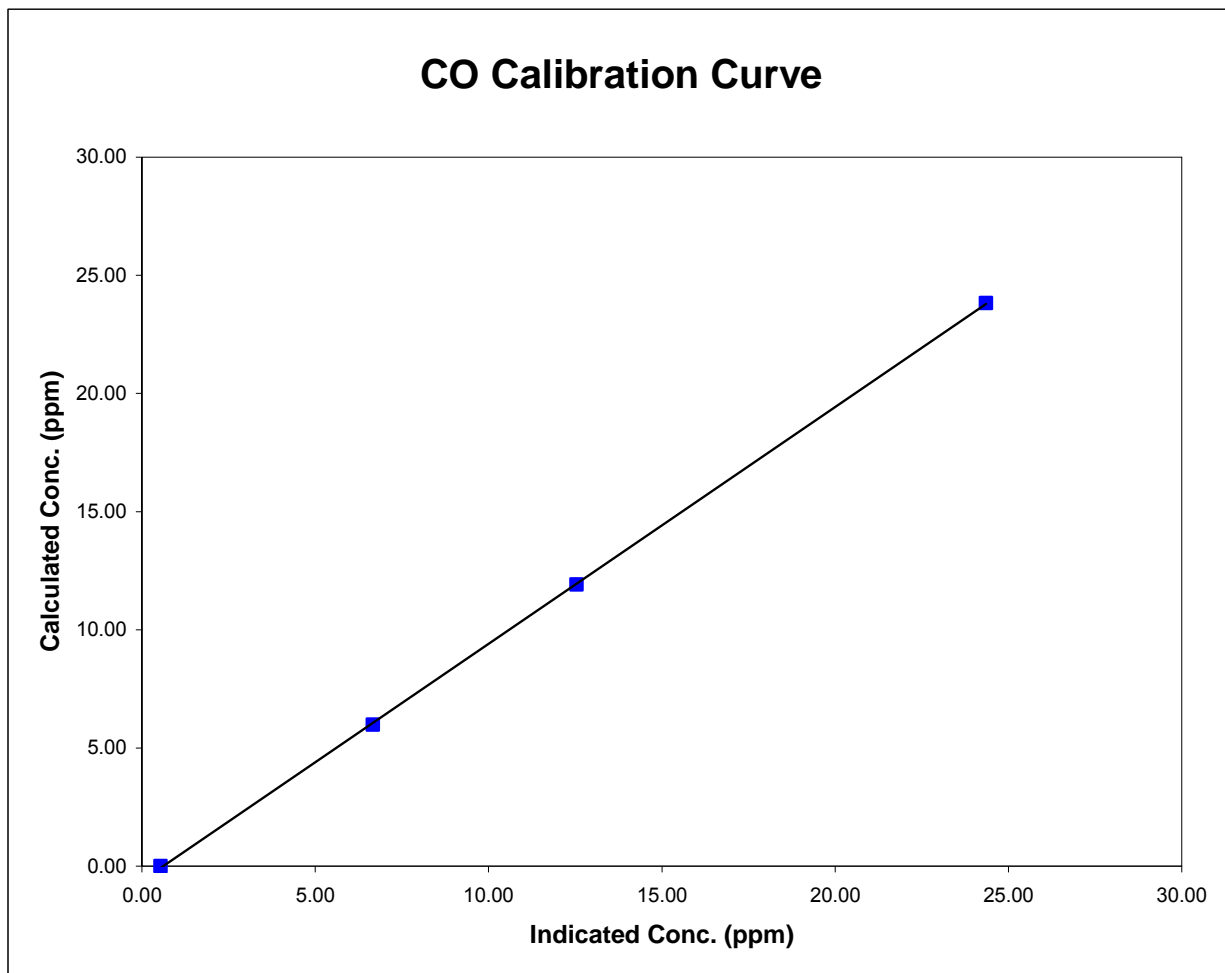
Parameter **CO**Air Monitoring Network **PASZA**

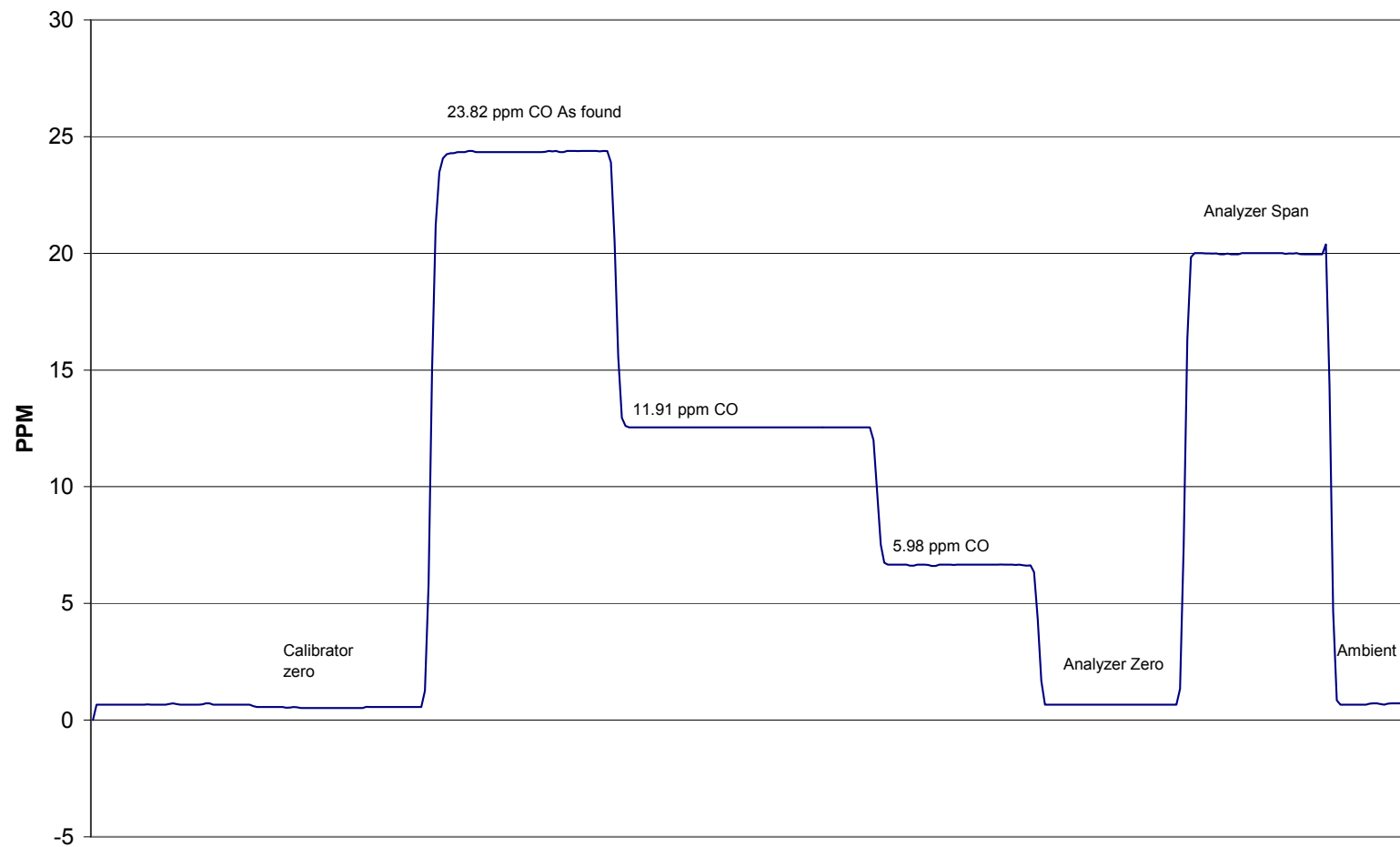
Station Information

Calibration Date	September 17, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:00	End Time (MST)	13:10
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.538	N/A		
23.823	24.352	0.9783	Correlation Coefficient	0.999953
11.913	12.540	0.9500		
5.983	6.663	0.8980	Slope	1.001912
			Intercept	-0.614606



Henry Pirker CO Calibration**September 17, 2007**

Calibration Report

Parameter **THC**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 17, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:30	End Time (MST)	11:10
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.005146	Calculated slope	1.004757
Calculated intercept	-0.031518	Calculated intercept	-0.213232
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.1	psi	6.1	psi
THC span counts	6889	capture	6889	capture
THC zero counts	879	capture	879	capture

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)
4992	0.00	0.00	0.25	N/A
4994	64.90	19.53	19.68	0.9922
4994	29.96	9.08	9.18	0.9894
4994	9.92	3.02	3.21	0.9387
4992	0.00	0.00	0.25	As Found Zero
4992	64.92	19.54	19.68	As Found Span
Average Correction Factor				0.9734

Calculated value of As Found Response: 19.499 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	0.12	ppm	-0.06	ppm
Auto span	21.48	ppm	22.87	ppm

Notes: Adjusted Span cylinder flow... too low for span to be triggering properly... now out-flow set to 30PSI

Calibration Performed By: Conor Whiteley

Calibration Summary

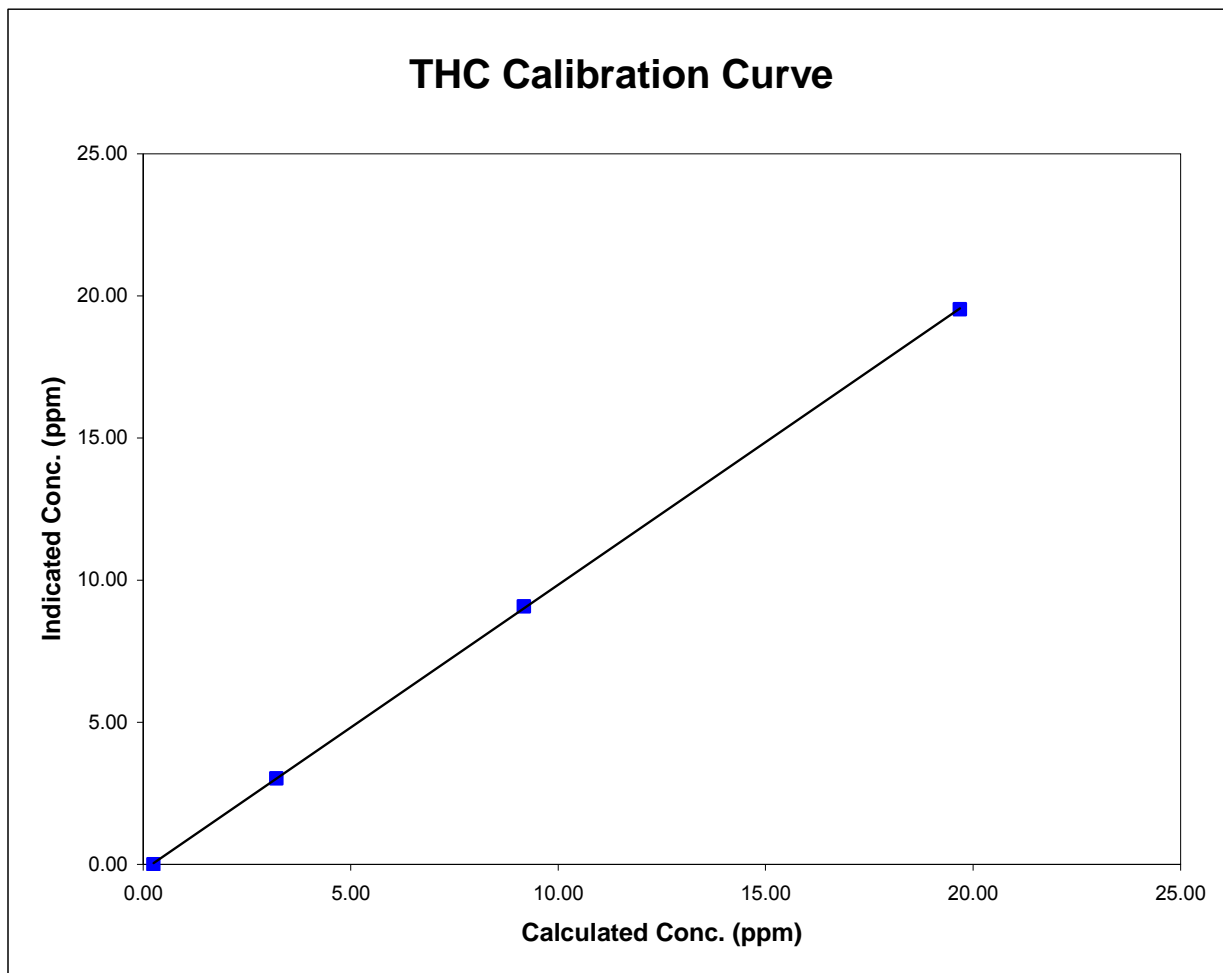
Parameter **THC**Air Monitoring Network **PASZA**

Station Information

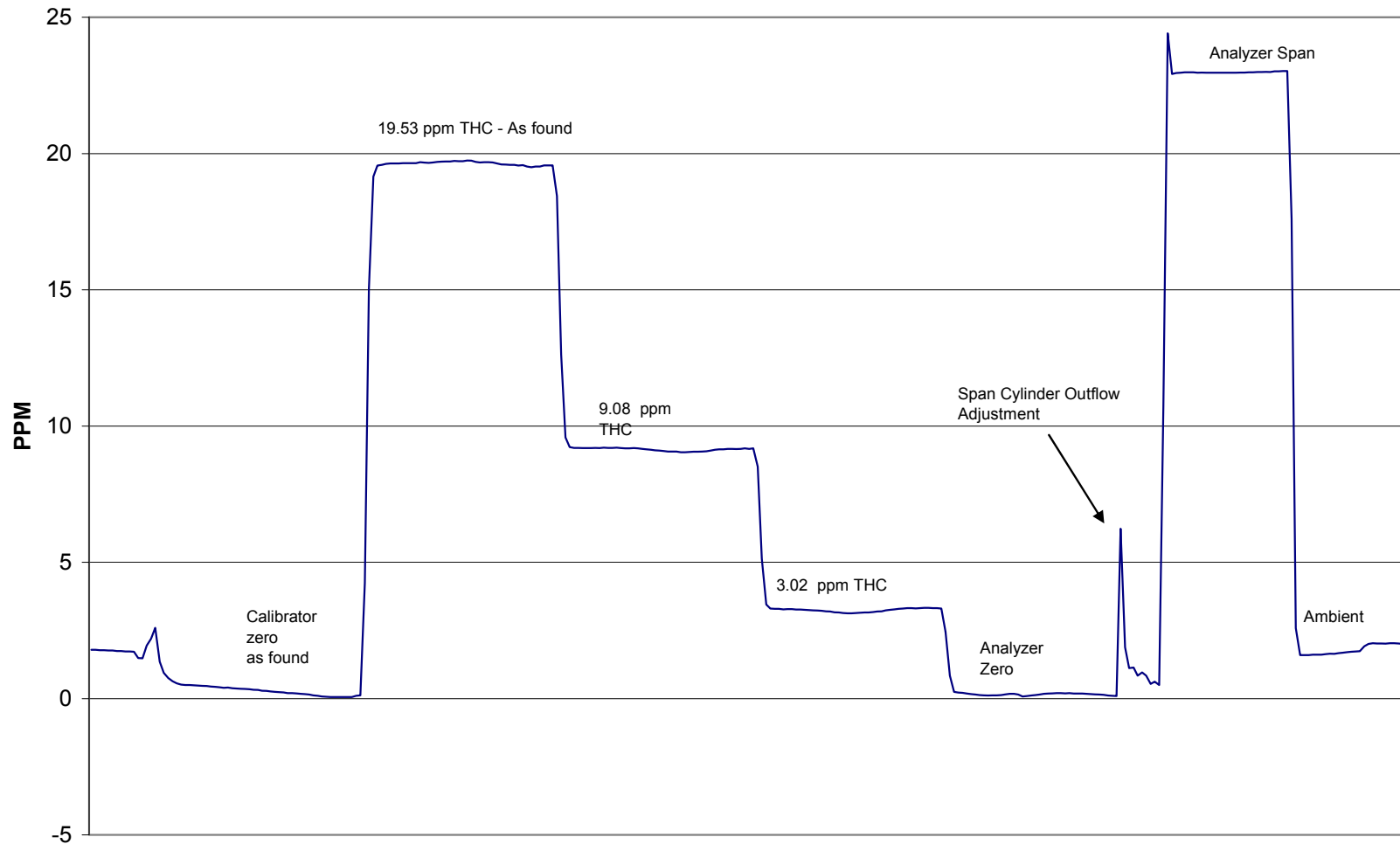
Calibration Date	September 17, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:30	End Time (MST)	11:10
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.252	N/A		
19.529	19.682	0.9922	Correlation Coefficient	0.999965
9.078	9.175	0.9894		
3.018	3.215	0.9387	Slope	1.004757
			Intercept	-0.213232



Henry Pirker THC Calibration



September 17, 2007

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
Start Time (MST)	14:00	End Time (MST)	17:10
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.013998	Calculated slope	1.022356
Calculated intercept	-0.120952	Calculated intercept	0.727135
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	16.9		16.8	
Pressure	665.0	mm Hg	661.5	mm Hg
Flow	461	ccm	458	ccm
Lamp Voltage	848	V	795	V

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4994	0.00	0.00	-0.57	N/A
4994	69.89	70.94	68.78	1.0315
4994	39.94	40.78	39.03	1.0448
4994	9.97	10.25	9.22	1.1109
4994	0.00	0.00	-0.57	As Found Zero
4994	70.00	71.05	68.78	As Found Span
Average Correction Factor				1.0624

Calculated value of As Found Response: 70.2 ppb Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	0.17	ppb	0.73	ppb
Auto span	37.06	ppb	36.21	ppb

Notes: No adjustments preformed

Calibration Performed By: Conor Whiteley

Calibration Summary

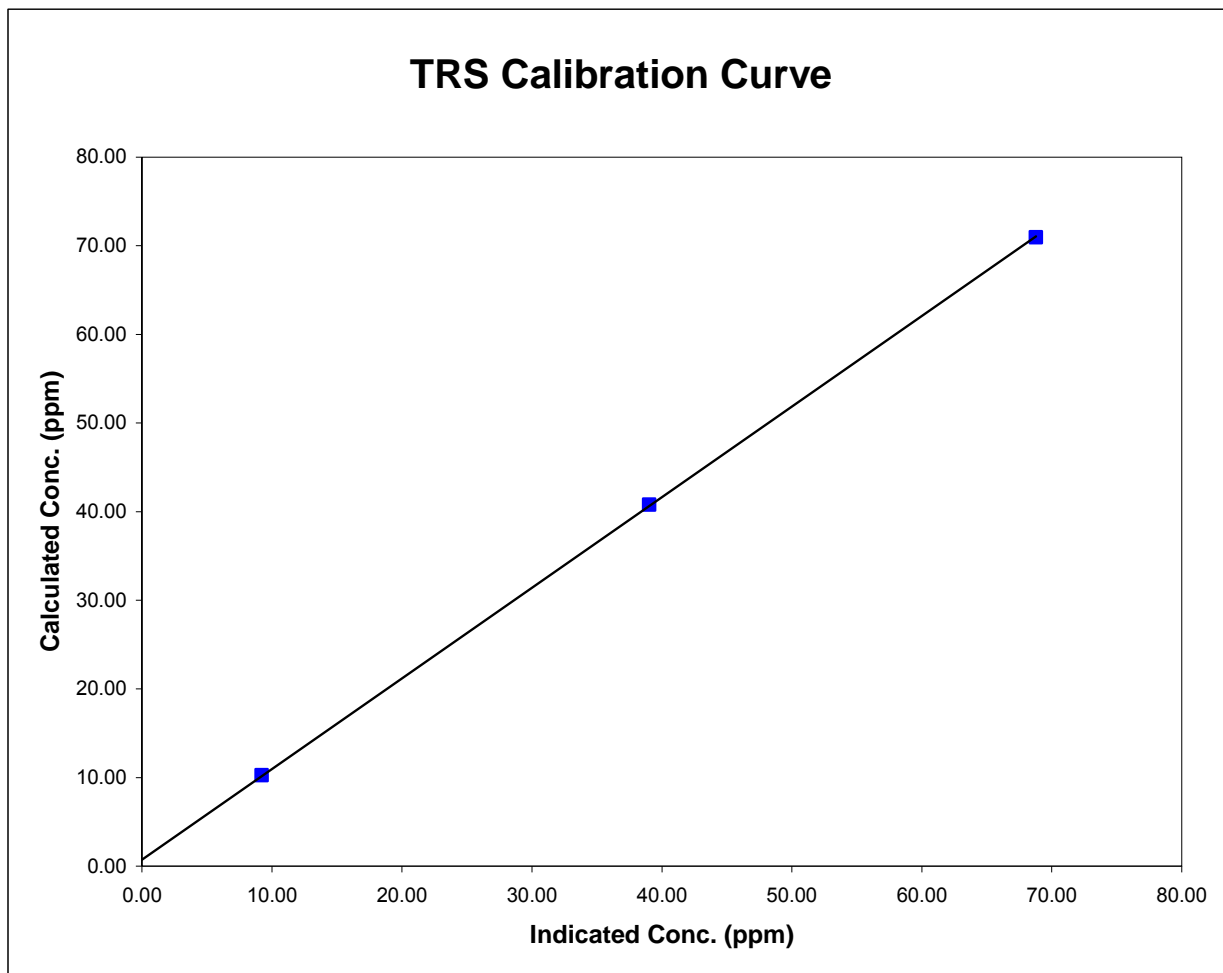
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

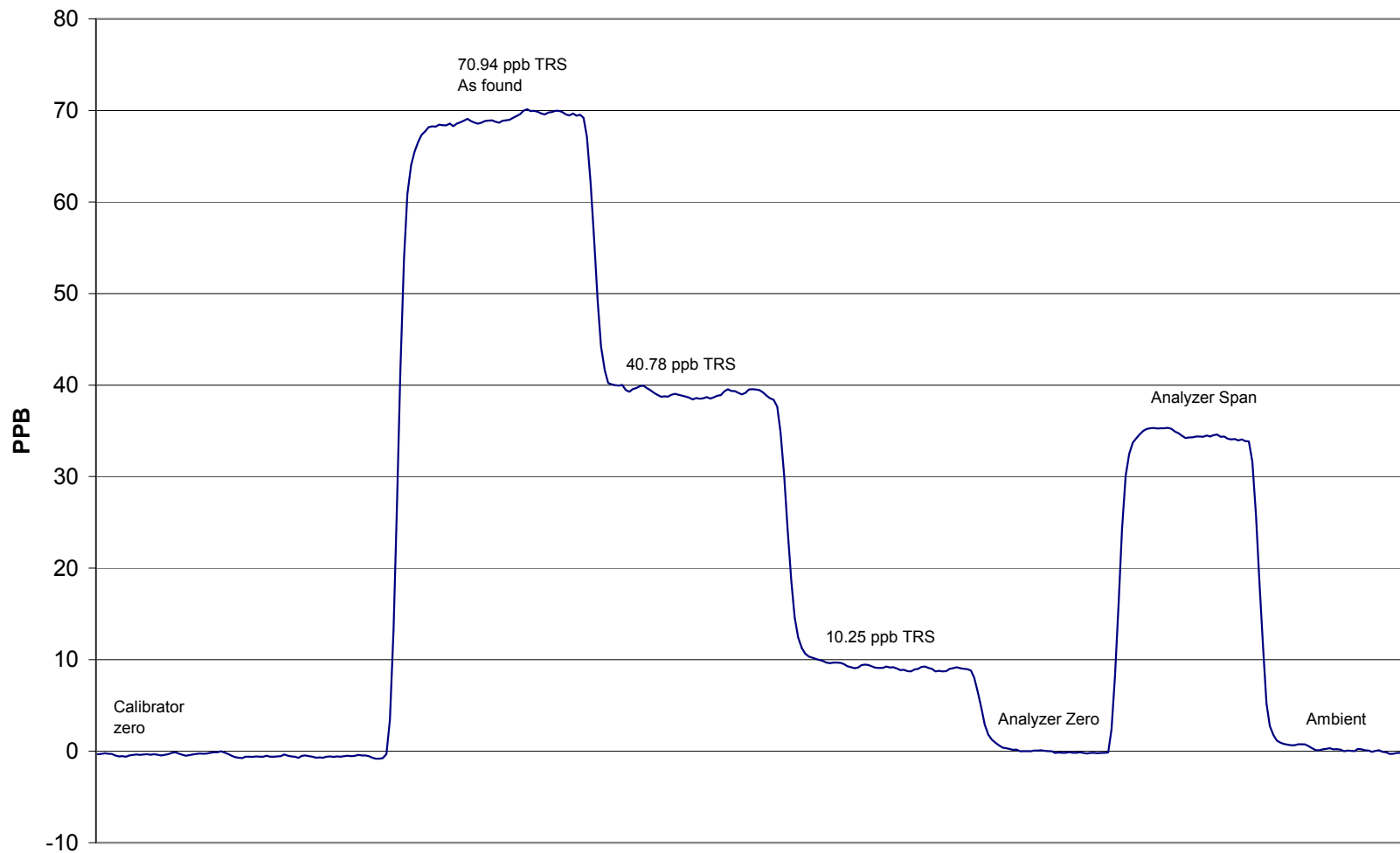
Calibration Date	September 12, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:00	End Time (MST)	17:10
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.574	N/A		
70.944	68.777	1.0315	Correlation Coefficient	0.999981
40.781	39.033	1.0448		
10.245	9.222	1.1109	Slope	1.022356
			Intercept	0.727135



Henry Pirker TRS Calibration



September 12, 2007

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 17, 2007	Previous Calibration	August 2, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:00	End Time (MST)	13:30
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	67	%	14	%
Ko Factor	13020		13020	
Temperature	27.1	Deg C	27.1	Deg C
Pressure	0.921	ATM	0.924	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.10		0.10
zero flow - auxillary	0.0	0.30		0.29
flow recovery - main	45 - 60 Seconds	40	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	47	46 - 60 Seconds	50
Temperature	measured	12.4	+/- 1.0 Deg C	12.2
Pressure	measured	0.919	+/- 1.5% Δ ATM	0.920
Total Flow	16.67 SLPM	15.84		16.50
Main Flow	13.67 SLPM	13.06	+/- 1.0 SLPM	13.70
Auxillary Flow	3.0 SLPM	2.860	+/- 0.2 SLPM	2.995
Leak Check - main	0.0	0.12	<0.15 SLPM	0.13
Leak Check - aux	0.0	0.31	<0.15 SLPM	0.32
Ko Factor (w/o filter)	measured	337.814	filter weight (g)	0.11347
Ko Factor (w/ filter)	measured	239.339	% Ko difference	-0.24%

Notes: Measured flow is fairly low, adjusted up, replaced sample filter

Calibration Performed By: Conor Whiteley

Calibration Report



Parameter **SO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 4, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:40	End Time (MST)	14:48
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031477	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.990239	Calculated slope	0.979450
Calculated intercept	-0.572903	Calculated intercept	-2.107274
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.9		8.9	
coefficient	0.928		0.928	
Lamp Voltage	834	volts	832	volts
Chamber Temp	45.2	Deg C	45	Deg C
Perm Gas Temp	44.99	Deg C	45	Deg C
Pressure	667.7	mm Hg	674.6	mm Hg
Sample Flow	446	ccm	451	ccm
Lamp Intensity	91	%	89	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.0	0.00	0.9	N/A
4991	39.83	398.23	407.8	0.9766
4991	19.90	199.76	207.7	0.9619
4991	9.95	100.08	105.0	0.9530
zero	0.0	0.00	0.9	As Found Zero
4991	39.9	399.03	407.8	As Found Span
Average Correction Factor				0.9639

Calculated value of As Found Response: 402.351 ppm Percent Change of As Found: -0.8%

	before calibration		after calibration	
Auto zero	-0.1	ppm	-1.7	ppm
Auto span	284.6	ppm	275.9	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

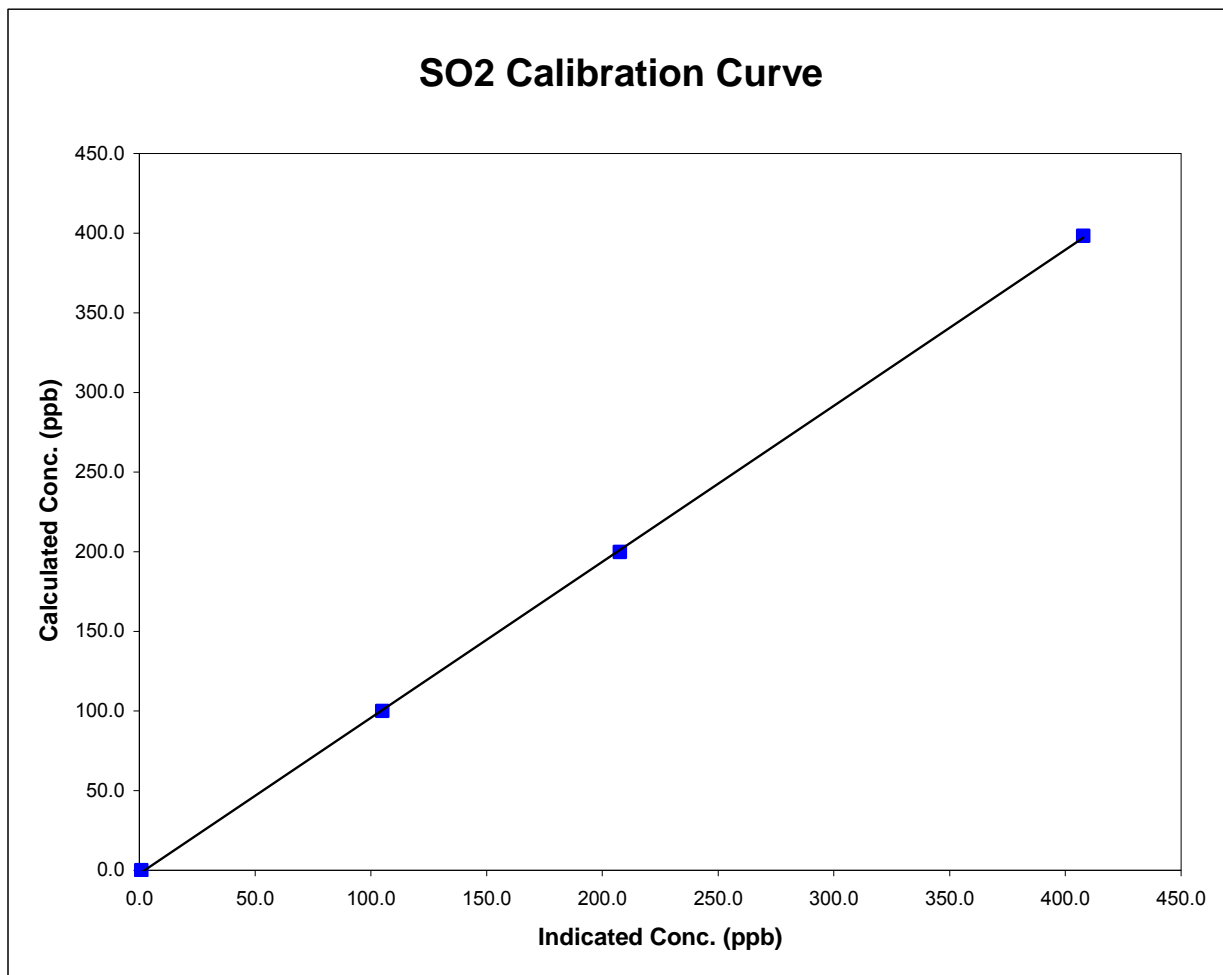


Station Information

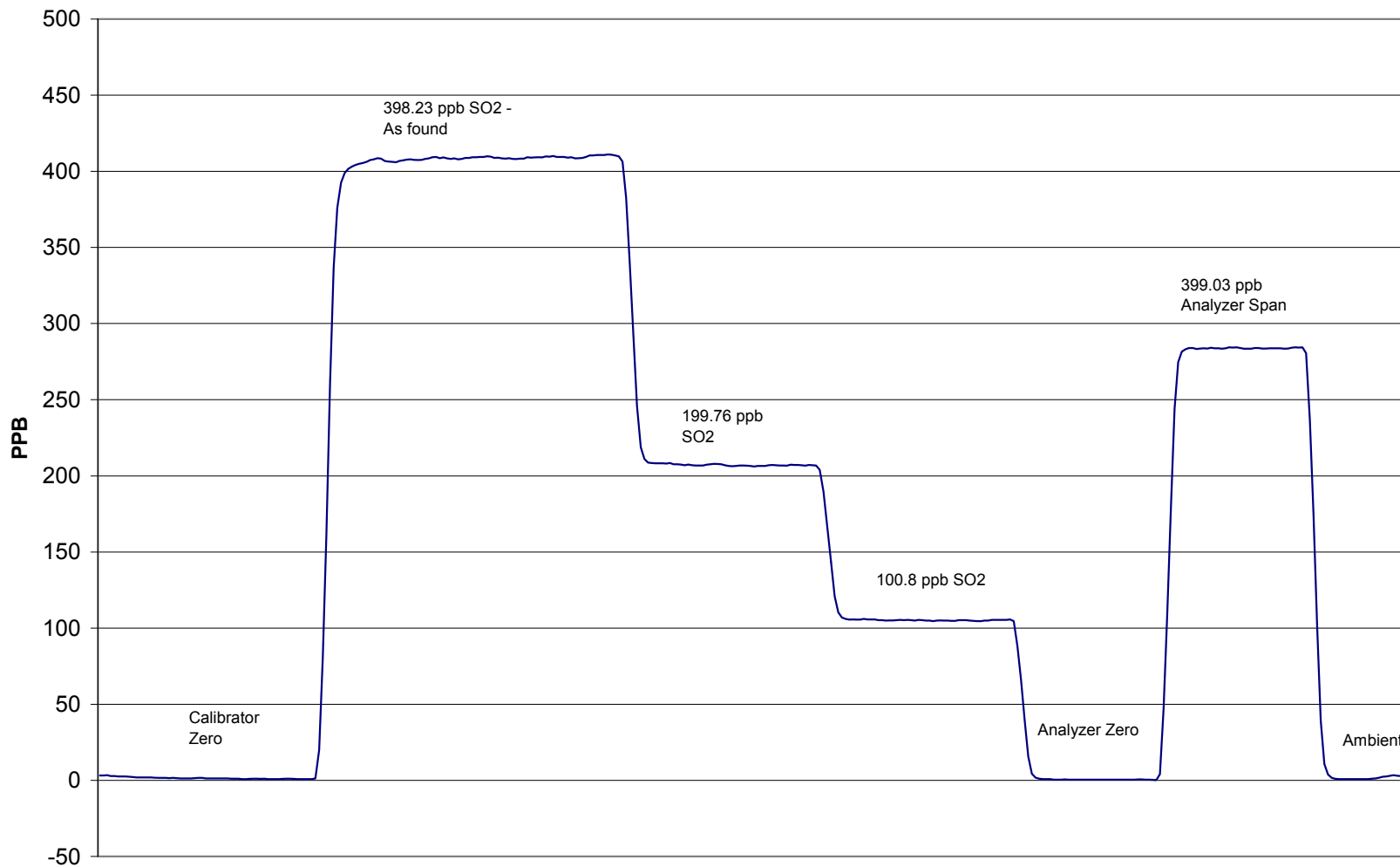
Calibration Date	September 4, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:40	End Time (MST)	14:48
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.9	N/A		
398.2	407.8	0.9766	Correlation Coefficient	0.999940
199.8	207.7	0.9619		
100.1	105.0	0.9530	Slope	0.979450
			Intercept	-2.107274



Evergreen Park SO2 Calibration



September 4, 2007

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 4, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:00	End Time (MST)	17:00
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031477	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.005434	Calculated slope	1.014198
Calculated intercept	1.365638	Calculated intercept	-0.342749
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	17.4	ppb	14.1	ppb
coefficient	0.976		0.976	
Lamp Voltage	787	volts	781	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	44.9	Deg C
Pressure	634	mm Hg	643.2	mm Hg
Sample Flow	466	ccm	472	ccm
Lamp Intensity	45,746	mv	44,595	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.00	0.00	0.4	N/A
4996	79.76	80.77	79.9	1.0103
4996	39.85	40.67	40.6	1.0023
4996	20.00	20.49	20.4	1.0044
zero	0.00	0.00	-2.1	As Found Zero
4996	80.00	81.01	79.9	As Found Span
Average Correction Factor				1.0057

Calculated value of As Found Response: 83.84 ppm Percent Change of As Found: -3.5%

	before calibration		after calibration	
Auto zero	-0.3	ppm	0.9	ppm
Auto span	70.5	ppm	70.6	ppm

Notes: Adjusted ZeroCalibration Performed By: Conor Whiteley

Calibration Summary

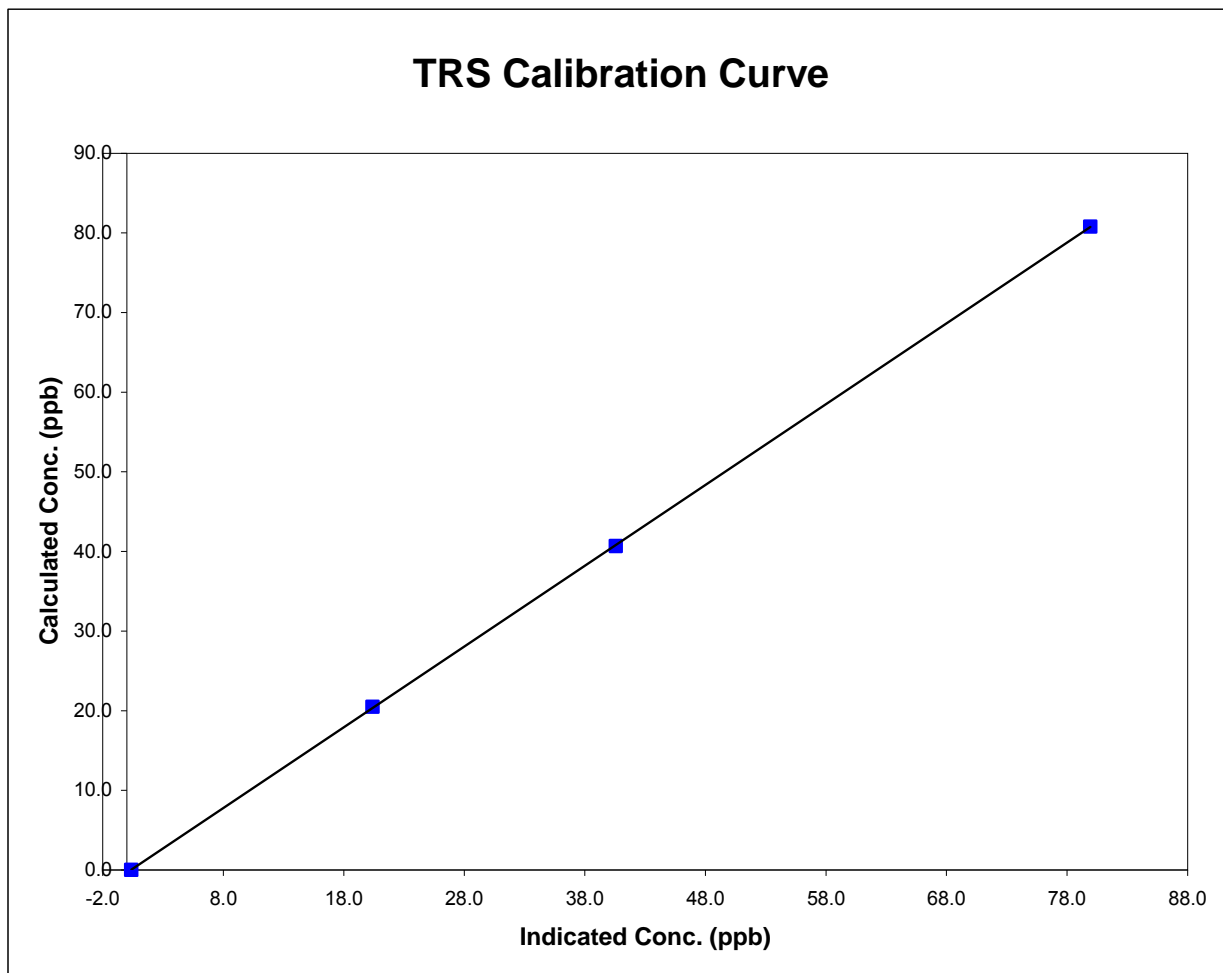
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

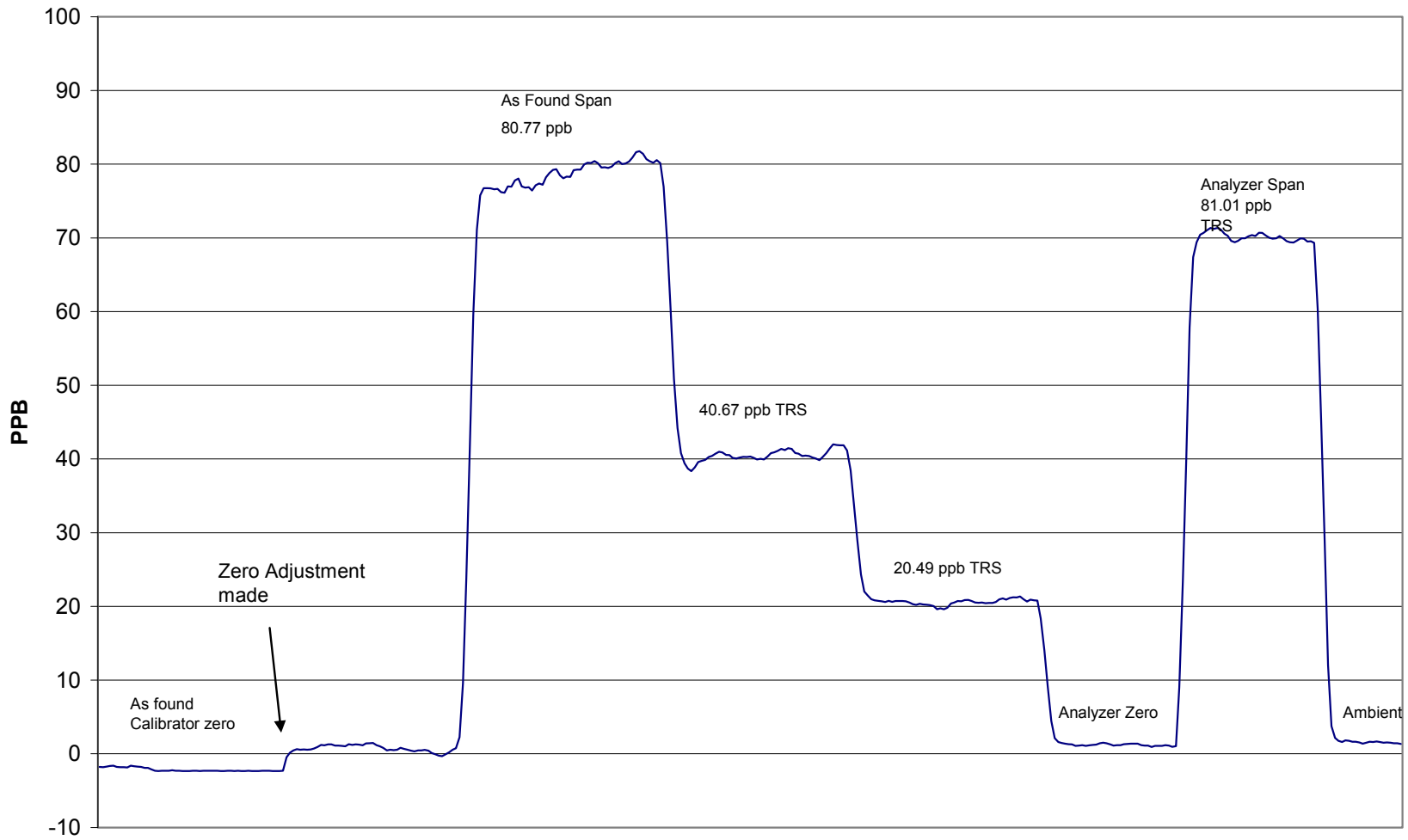
Calibration Date	September 4, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	15:00	End Time (MST)	17:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
80.8	79.9	1.0103	Correlation Coefficient	0.999988
40.7	40.6	1.0023		
20.5	20.4	1.0044	Slope	1.014198
			Intercept	-0.342749



Evergreen Park TRS Calibration



September 4, 2007

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 4, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:29	End Time (MST)	15:26
Barometric Pressure	0.926 ATM	Station Temperature	25.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	17	%	17	%
Ko Factor	10124		10124	
Temperature	20.0	Deg C	20.0	Deg C
Pressure	0.927	ATM	0.927	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.06
zero flow - auxillary	0.0	-0.02		-0.04
flow recovery - main	45 - 60 Seconds	30.0	45 - 60 Seconds	50.0
flow recovery - aux	46 - 60 Seconds	40.0	46 - 60 Seconds	55.0
Temperature	measured	20.1	+/- 1.0 Deg C	18.9
Pressure	measured	0.926	+/- 1.5% ΔATM	0.925
Total Flow	16.67 SLPM	16.51		
Main Flow	3.00 SLPM	2.95	+/- 1.0 SLPM	13.58
Auxillary Flow	13.67 SLPM	13.610	+/- 0.2 SLPM	2.972
Leak Check - main	0.0	0.01	<0.15 SLPM	0.08
Leak Check - aux	0.0	0.12	<0.15 SLPM	0.19
Ko Factor (w/o filter)	measured	n/a	filter weight (g)	0.11012
Ko Factor (w/ filter)	measured	n/a	% Ko difference	N/A

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report



Parameter **SO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 5, 2007	Previous Calibration	August 9, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:35	End Time (MST)	14:10
Barometric Pressure	0.921 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031307	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.010874	Calculated slope	0.976975
Calculated intercept	-4.804784	Calculated intercept	-5.917613
Analyzer make	Teco 43c	Analyzer serial #	3199000000491

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	n/a		25.6	
coefficient	n/a		1.042	
Lamp Voltage	n/a	volts	916	volts
Chamber Temp	n/a	Deg C	44.3	Deg C
Perm Gas Temp	n/a	Deg C	45	Deg C
Pressure	n/a	mm Hg	672.6	mm Hg
Sample Flow	n/a	ccm	600	ccm
Lamp Intensity	n/a	%	38662	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.0	0.00	3.6	N/A
4992	39.84	398.25	412.1	0.9664
4992	19.98	200.52	213.4	0.9395
4993	9.99	100.47	110.8	0.9071
zero	0.0	0.00	3.6	As Found Zero
4994	39.9	398.79	412.1	As Found Span
Average Correction Factor				0.9377

Calculated value of As Found Response: 408.104 ppm Percent Change of As Found: -2.3%

	before calibration		after calibration	
Auto zero	-1.1	ppm	-2.3	ppm
Auto span	228.7	ppm	225.3	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

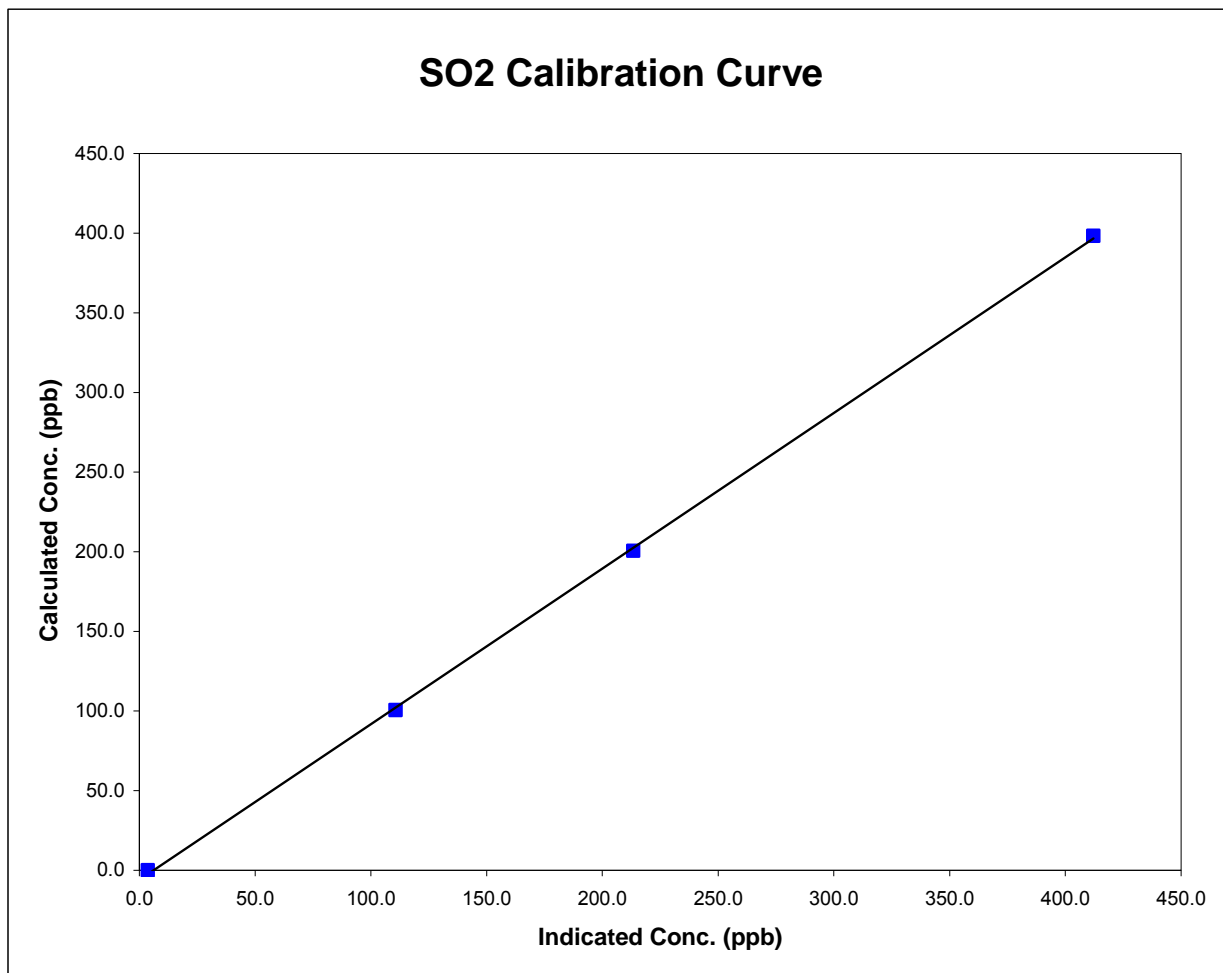
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

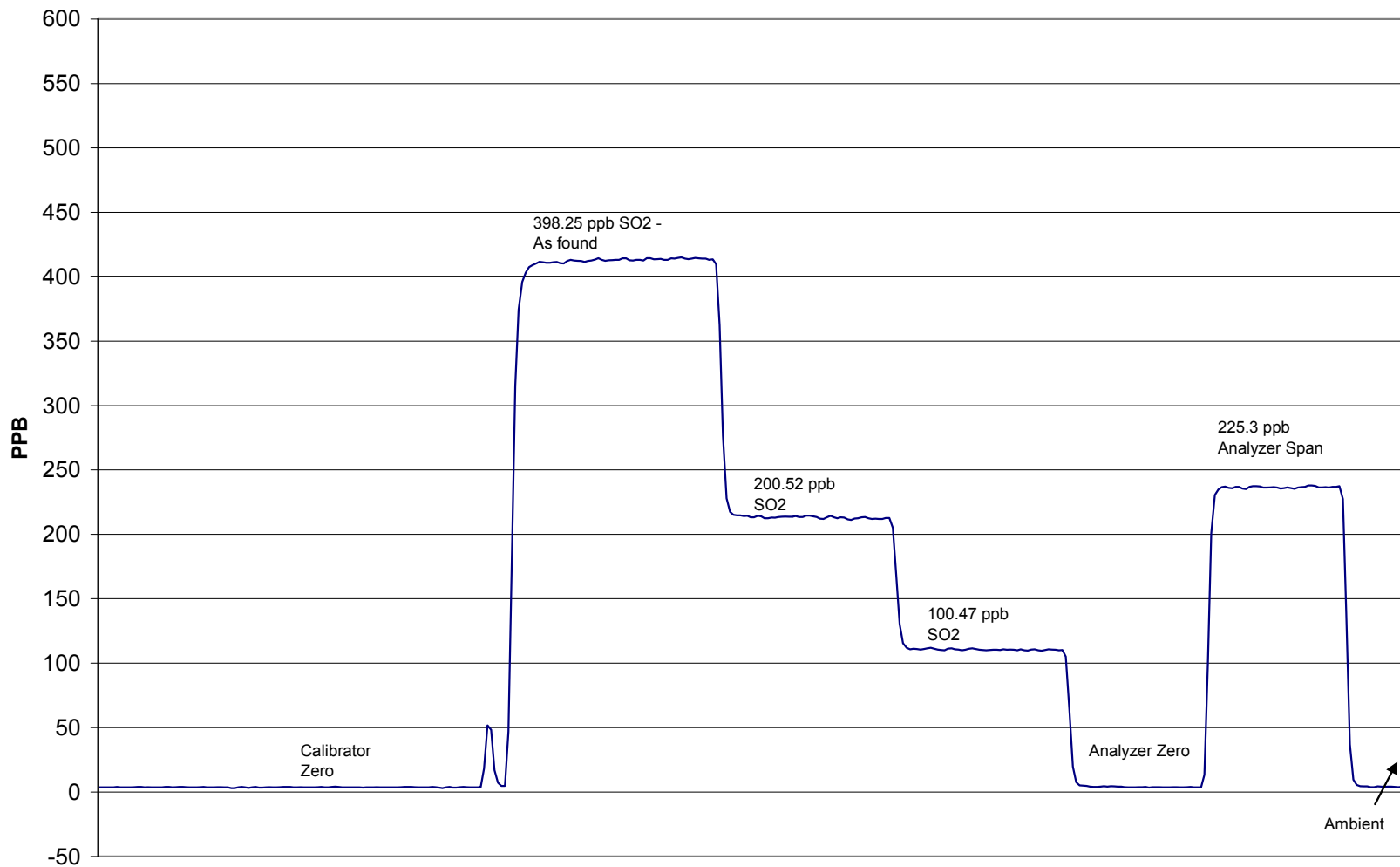
Calibration Date	September 5, 2007	Previous Calibration	August 9, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:35	End Time (MST)	14:10
Analyzer make/model	Teco 43c	Analyzer serial #	3.199E+13

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	3.6	N/A		
398.3	412.1	0.9664	Correlation Coefficient	0.999820
200.5	213.4	0.9395		
100.5	110.8	0.9071	Slope	0.976975
			Intercept	-5.917613



Smoky Heights SO2 Calibration



September 5, 2007

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 5, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:45	End Time (MST)	12:20
Barometric Pressure	0.921 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031307	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.004236	Calculated slope	1.010826
Calculated intercept	1.082117	Calculated intercept	-0.517122
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.2	ppb	11.5	ppb
coefficient	1.006		1.006	
Lamp Voltage	765	volts	766	volts
Chamber Temp	44	Deg C	43.9	Deg C
Perm Gas Temp	45.01	Deg C	44.99	Deg C
Pressure	503.3	mm Hg	485.4	mm Hg
Sample Flow	781	ccm	763	ccm
Lamp Intensity	45,746	mv	32,329	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4998	0.0	0.00	0.6	N/A
4996	79.97	80.98	80.6	1.0044
4998	39.92	40.73	40.8	0.9972
4998	19.91	20.39	20.6	0.9902
zero	0.0	0.00	0.6	As Found Zero
5000	75.0	75.96	80.6	As Found Span
Average Correction Factor				0.9973

Calculated value of As Found Response: 81.49 ppm Percent Change of As Found: -7.3%

	before calibration		after calibration	
Auto zero	-0.5	ppm	0.0	ppm
Auto span	70.3	ppm	44.0	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

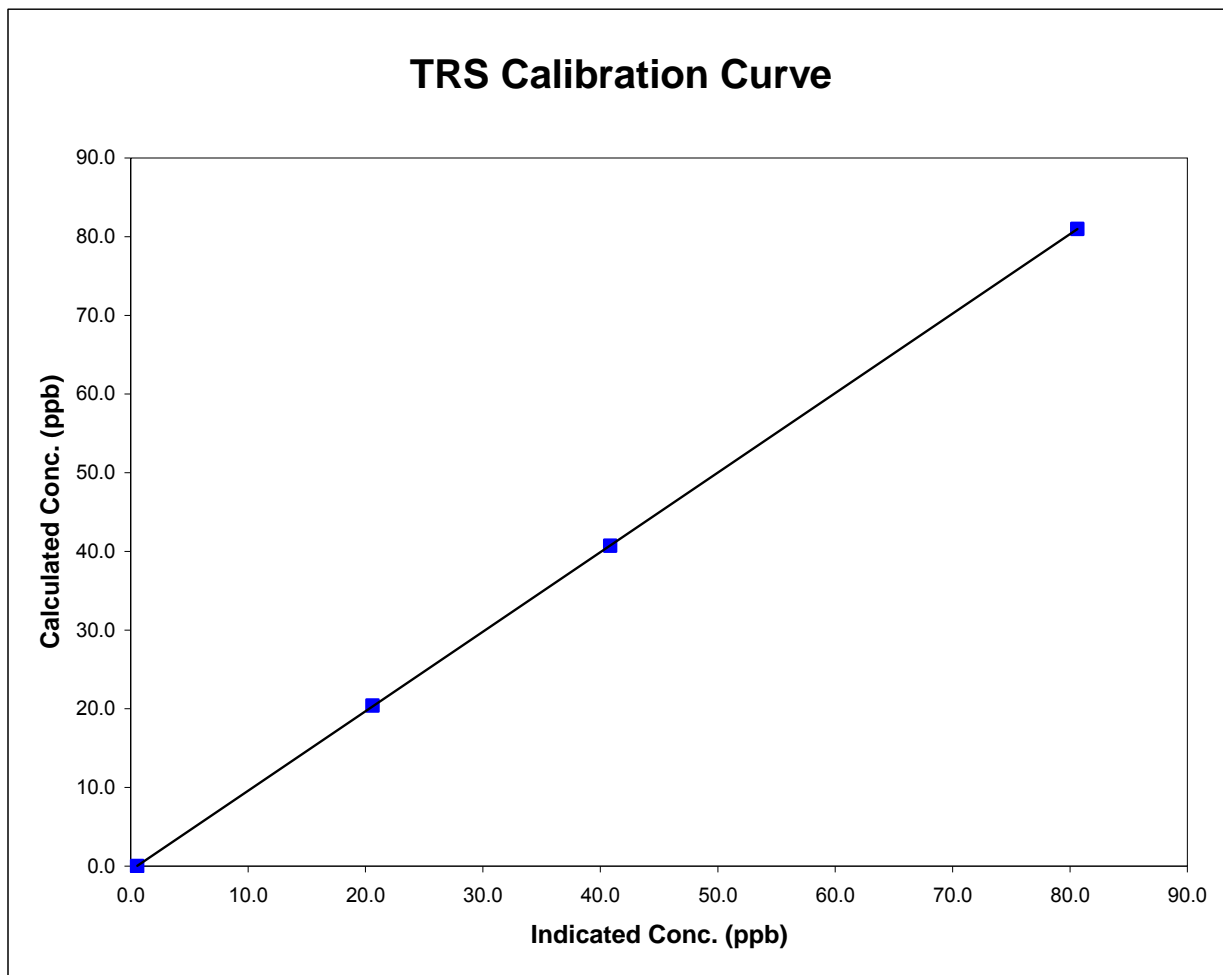


Station Information

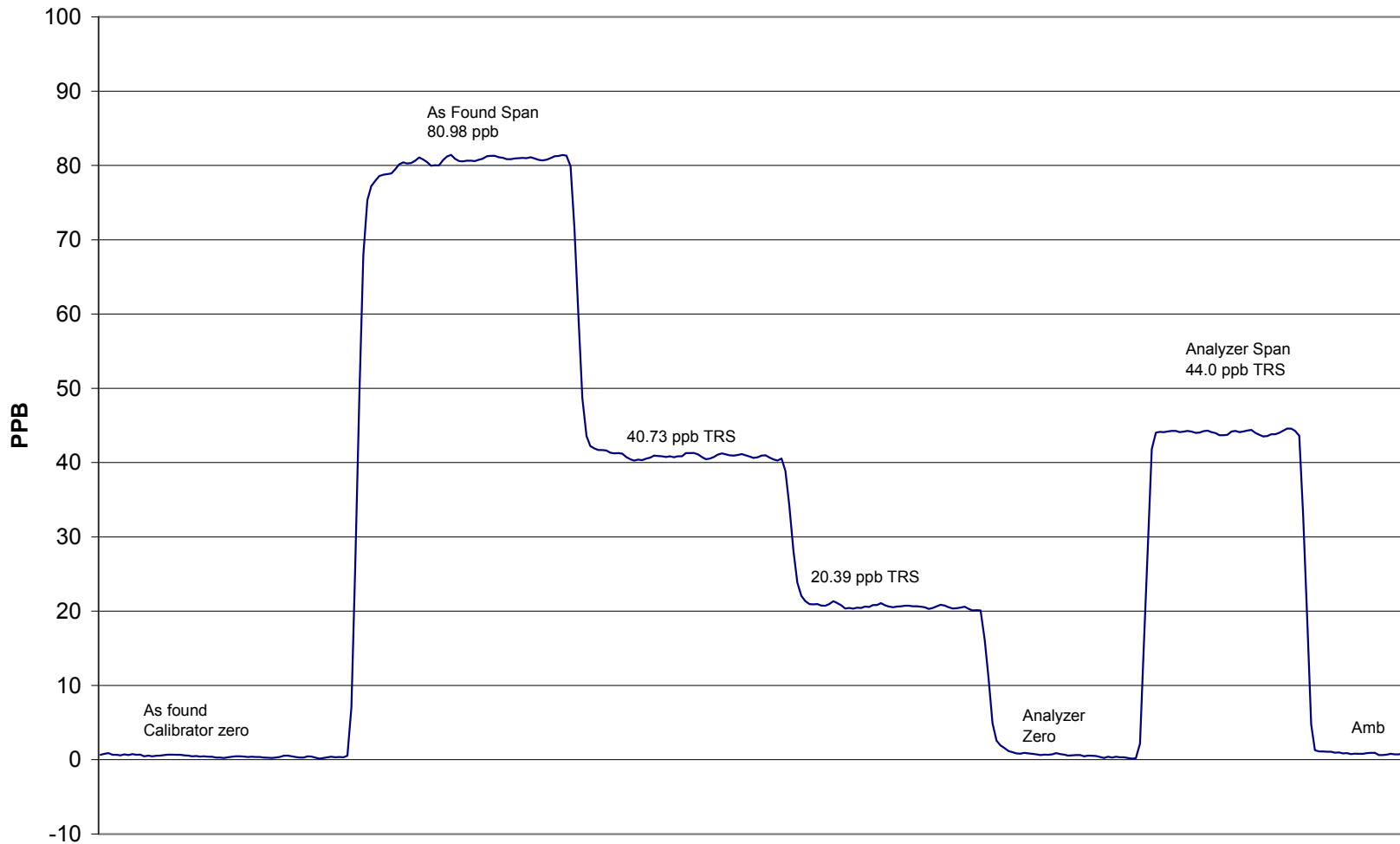
Calibration Date	September 5, 2007	Previous Calibration	August 7, 2007
Station Number	2	Station Location	Smoky Heights
Start Time (MST)	9:45	End Time (MST)	12:20
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
81.0	80.6	1.0044	Correlation Coefficient	0.999997
40.7	40.8	0.9972		
20.4	20.6	0.9902	Slope	1.010826
			Intercept	-0.517122



Smoky Heights TRS Calibration



September 5, 2007

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 5, 2007	Previous Calibration	August 7, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:20	End Time (MST)	11:37
Barometric Pressure	0.921 ATM	Station Temperature	24.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	na		na	
Temperature	9.3	Deg C	9.3	Deg C
Pressure	0.921	ATM	0.93	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxiliary	0.0	-0.02		0.01
flow recovery - main	45 - 60 Seconds	30	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	45
Temperature	measured	13.9	+/- 1.0 Deg C	14.1
Pressure	measured	0.921	+/- 1.5% ΔATM	0.921
Total Flow	16.67 SLPM	16.34		16.52
Main Flow	13.67 SLPM	2.97	+/- 1.0 SLPM	3.01
Auxiliary Flow	3.0 SLPM	13.350	+/- 0.2 SLPM	13.530
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.02	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Adjusted Flows, Adjusted Zero Flow
Replaced auxiliary filter

Calibration Performed By: Conor Whiteley, Lenin Flores

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:50	End Time (MST)	13:45
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.047022	Calculated slope	0.989268
Calculated intercept	5.275609	Calculated intercept	1.336285
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0-100	ppb	0 - 100	ppb
Background	1.97		3	
Coefficient	0.756		0.769	
PMT	N/A	V	-705	V
UV Lamp Voltage	896.0	V	901	V
Chamber Temp	44.4	Deg C	44.6	Deg C
Pressure	626.1	mm Hg	650.7	mm Hg
Sample Flow	0.576	LPM	0.604	LPM
Lamp Intesity	45370	Hz	29411	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
5000	0.00	0.0	-0.9	N/A
5000	39.83	79.5	79.4	1.0013
5000	19.89	39.9	38.1	1.0449
5000	9.95	20.0	18.8	1.0601
5000	0.00	0.0	-0.9	As found zero
5000	8.00	16.1	84.2	As found span
Average Correction Factor				1.0355

Calculated value of As Found Response: 94.395 ppm Percent Change of As Found: -487.4%

	before calibration		after calibration	
Auto zero	4.1	ppm	0.3	ppm
Auto span	32.9	ppm	26.1	ppm

Notes: Adjusted SpanCalibration Performed By: Conor Whiteley

Calibration Summary

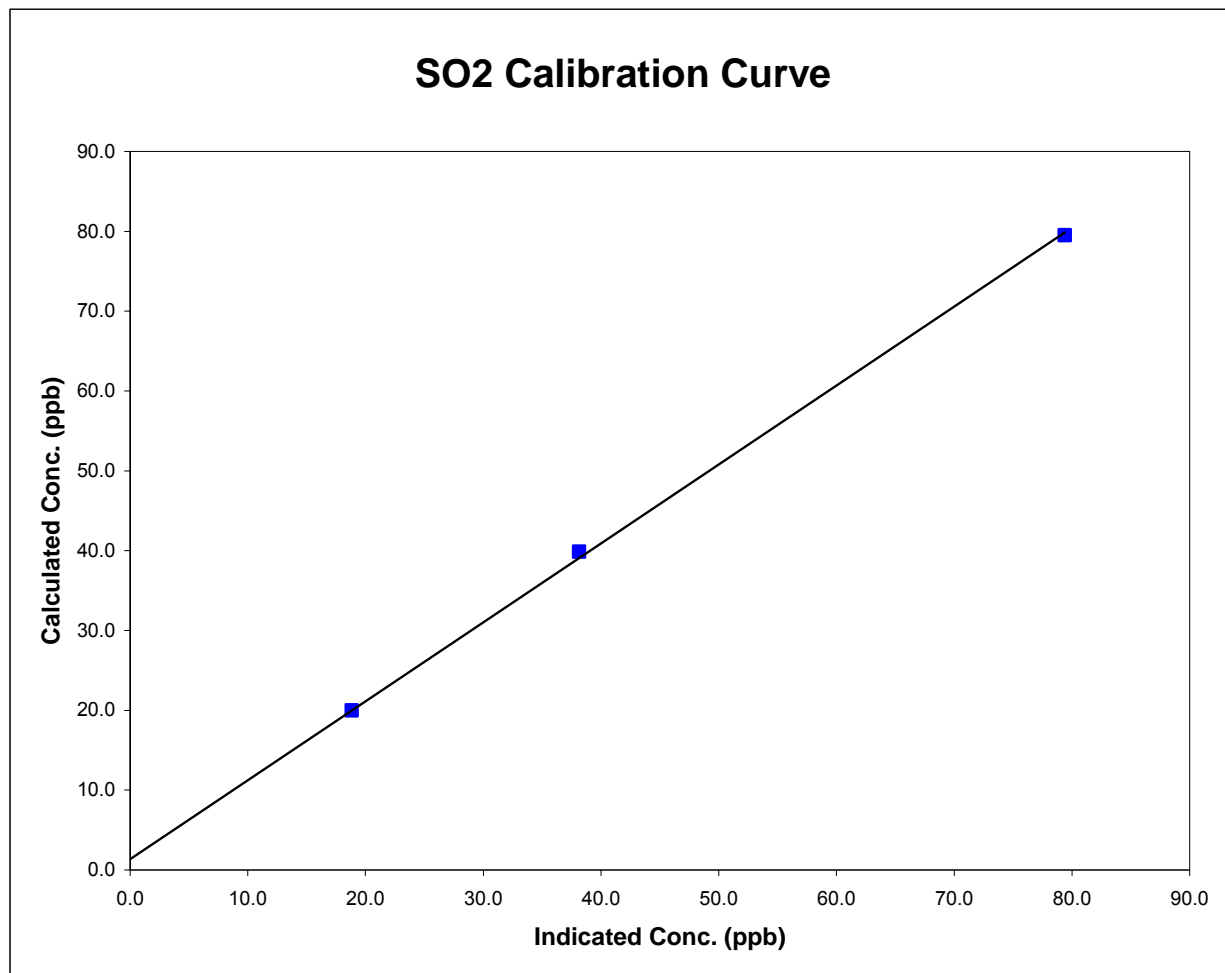
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

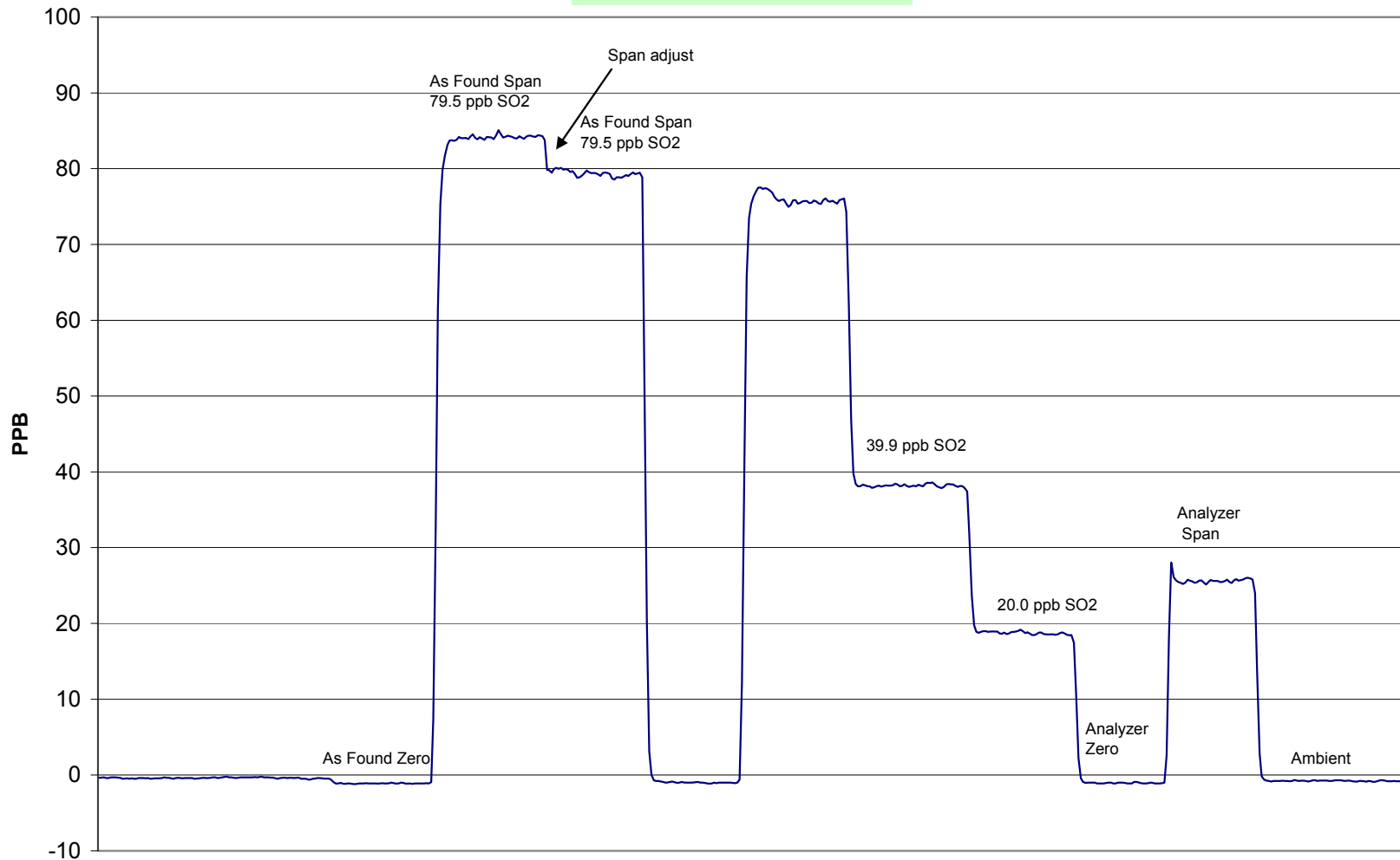
Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:50	End Time (MST)	13:45
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.9	N/A		
79.5	79.4	1.0013	Correlation Coefficient	0.999731
39.9	38.1	1.0449		
20.0	18.8	1.0601		
			Slope	0.989268
			Intercept	1.336285



Beaverlodge SO2 Calibration



September 27, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**

Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	9:50:00	End Time (MST)	15:05:00
Barometric Pressure	0.920 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	50.1 ppm	Cal Gas Cert. Date	2-Jan-07
NOx Cal Gas Conc	50.2 ppm	Cal Gas Serial #	CC 114395

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO2	NOx	NO
Before	Data Slope	1.001682	1.001337	1.001255
	Data Offset	-0.042277	0.354810	0.931745
After	Data Slope	1.027895	1.013103	1.010483
	Data Offset	0.023815	-0.928142	-1.064740
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TEI Model 42	Analyzer serial #	42-28486-231
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Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO background	1.3	ppb	1.3	mV
NOx background	1.4	ppb	1.3	mV
NO coefficient	1.102		1.061	
NOx coefficient	0.999		0.999	
PMT Voltage	-635	V	-635	V
Chamber Temp	49.3	Deg C	49.4	Deg C
Cooler Temp	-2.2	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	0.779	LPM	0.785	LPM
Ozonator Flow	0.870	LPM	0.085	LPM
Pressure	176.1	inches HG	168.5	inches Hg

Notes: Adjusted Span

Parameter
Air Monitoring Network

NOx-NO-NO₂
PASZA



Station Information

Calibration Date: **September 27, 2007**

Station Location: **Beaverlodge**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4996	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	N/A	N/A
1	4996	39.83	397.0	396.3	0.8	397.3	392.0	5.0	0.9993	1.0110
2	4996	19.89	199.1	198.7	0.4	201.1	197.0	3.8	0.9897	1.0086
3	4996	9.95	99.8	99.6	0.2	102.7	99.9	2.4	0.9711	0.9967
AFZ	4996	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.0000	0.0000
AFS	4996	79.86	789.8	788.2	1.6	416.1	414.1	1.6	1.8981	1.9035
Average Correction Factor									0.9867	1.0054

As Found Concentrations: NO_x= 416.7 NO= 415.3 As Found Percent Change NO_x= -47.2% NO= -47.3%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

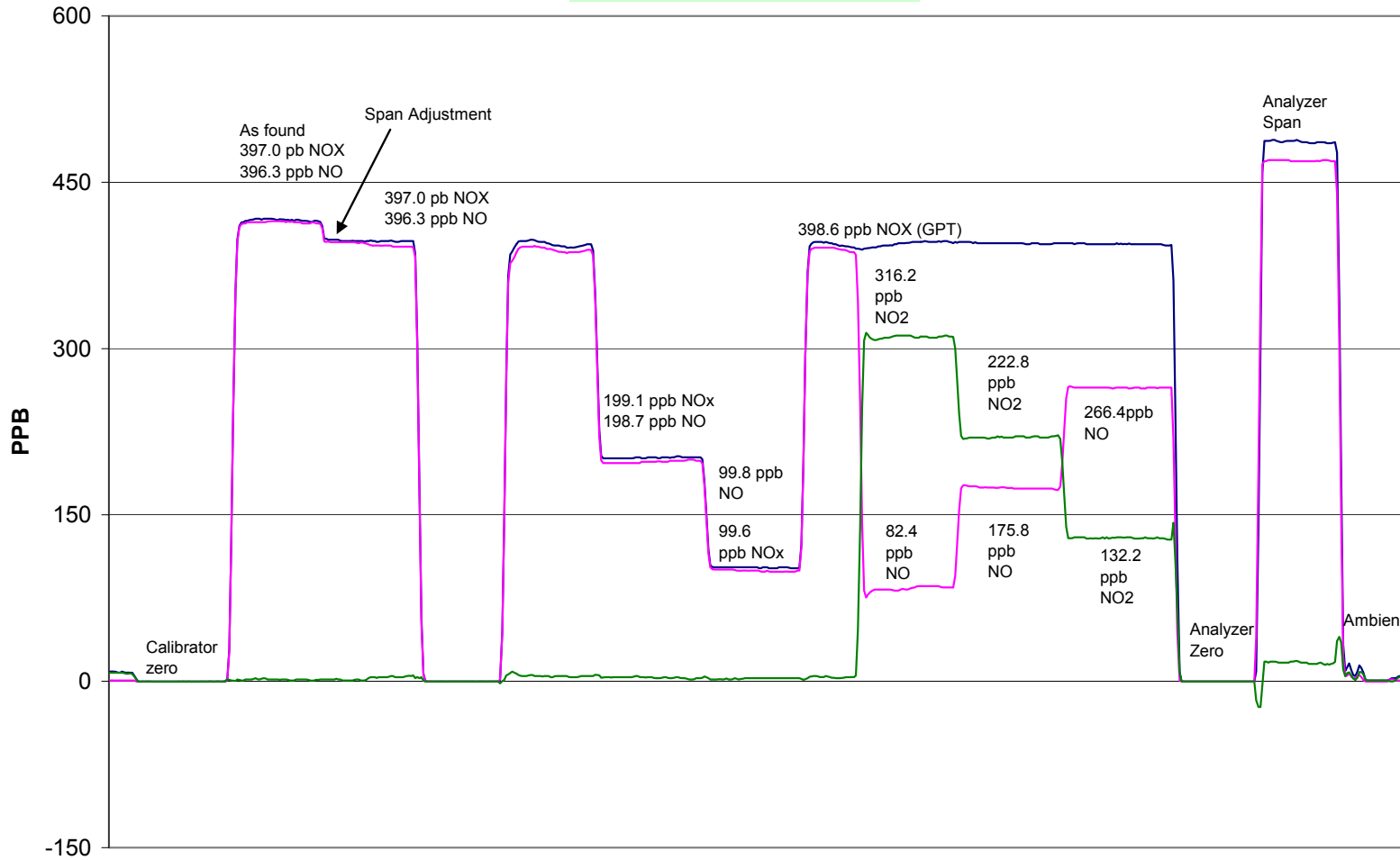
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	398.6	393.9	4.7	395.3	390.8	3.8	1.0082	1.0078	N/A	N/A
300	398.6	82.4	316.2	393.5	82.6	310.3	1.0129	0.9976	1.0189	98.1%
200	398.6	175.8	222.8	395.3	175.0	219.8	1.0084	1.0044	1.0138	98.6%
100	398.6	266.4	132.2	394.2	264.7	129.4	1.0110	1.0065	1.0216	97.9%
Average Correction Factor							1.0108	1.0028	1.0181	98.2%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.1	-0.4	0.6	ppb	-1.1	-0.2	-1.3	ppb
Auto span	506.6	13.1	493.3	ppb	491.9	17.1	473.2	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



September 27, 2007

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **PASZA**

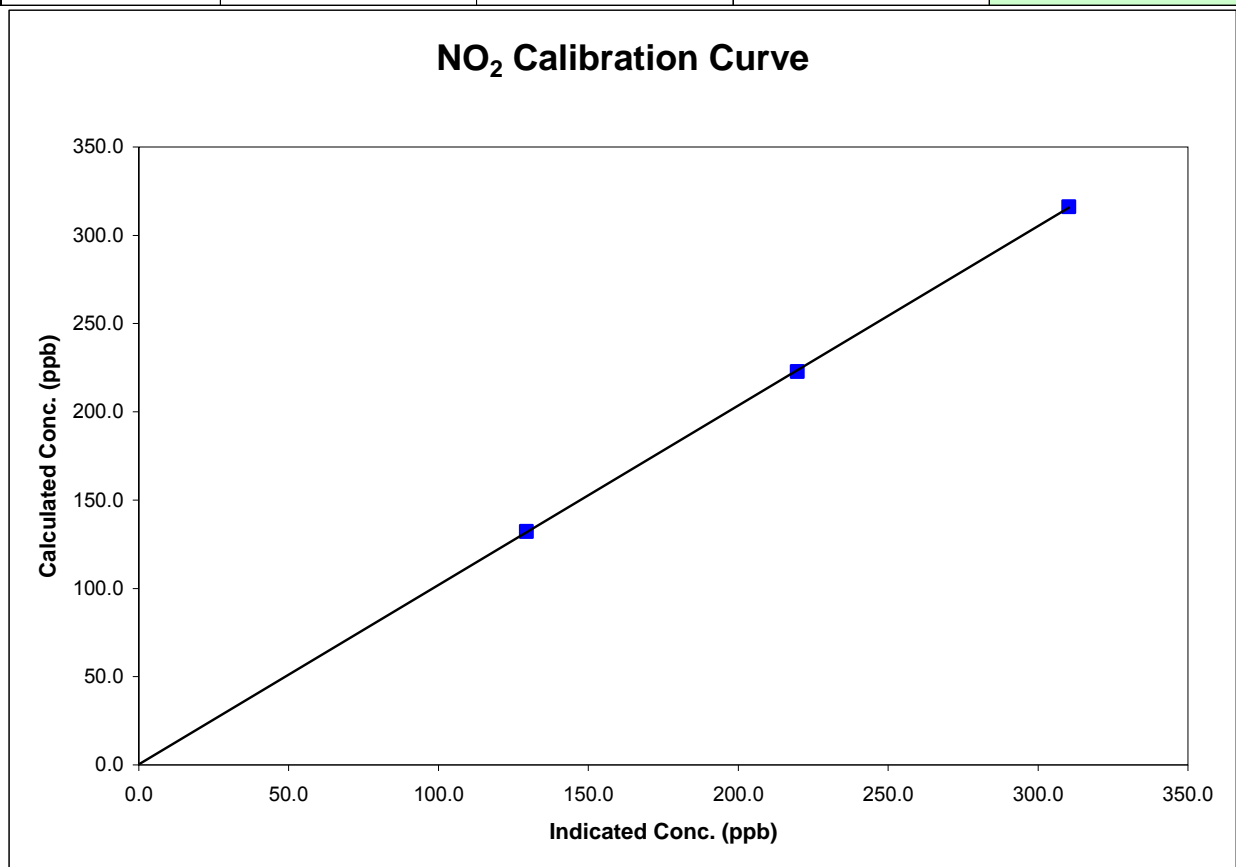


Station Information

Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:50	End Time (MST)	15:05
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000		
316.2	310.3	1.0189	Correlation Coefficient	0.999980
222.8	219.8	1.0138		
132.2	129.4	1.0216	Slope	1.016515
			Intercept	0.273657



Calibration Summary

Parameter **NO_x**
 Air Monitoring Network **PASZA**

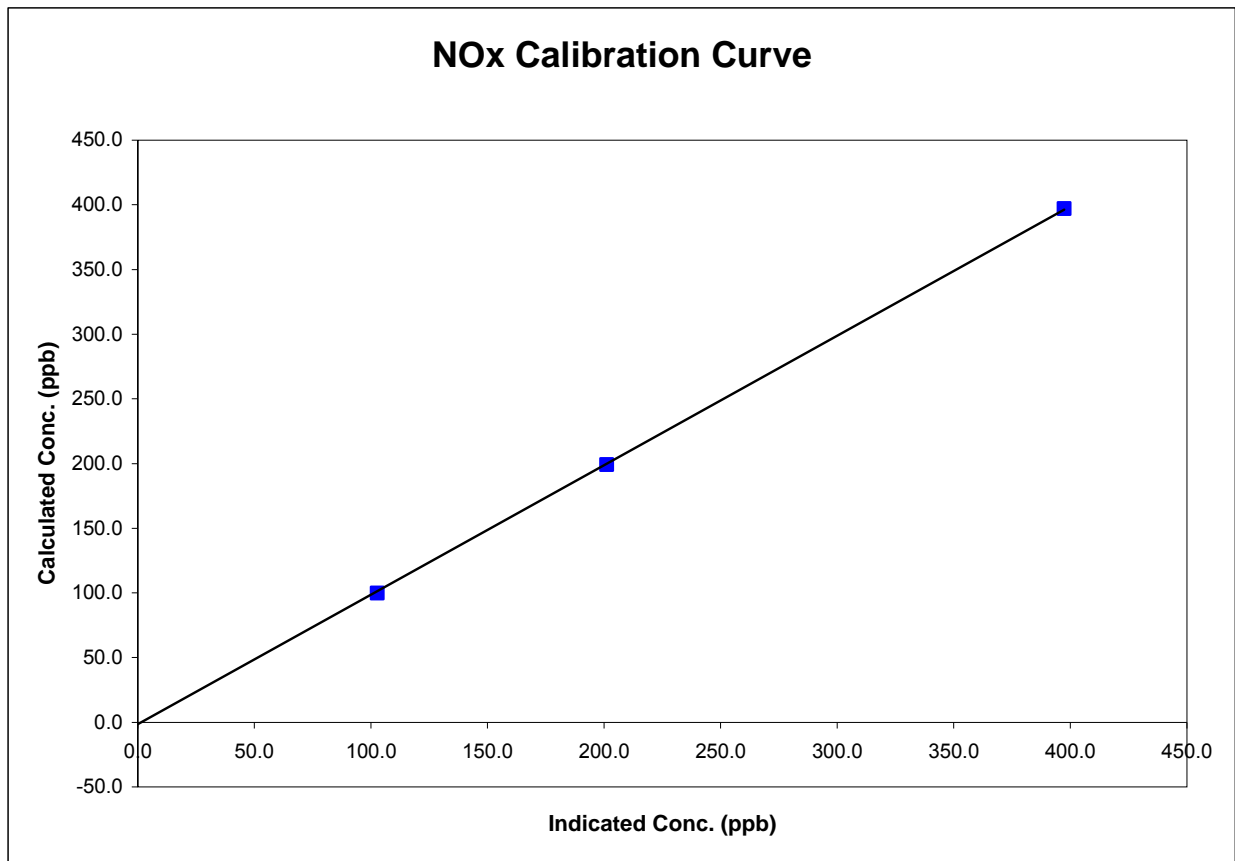


Station Information

Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:50	End Time (MST)	15:05
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	0.0000	Correlation Coefficient	0.999922
397.0	397.3	0.9993		
199.1	201.1	0.9897		
99.8	102.7	0.9711		
			Slope	1.000672
			Intercept	-1.388388



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

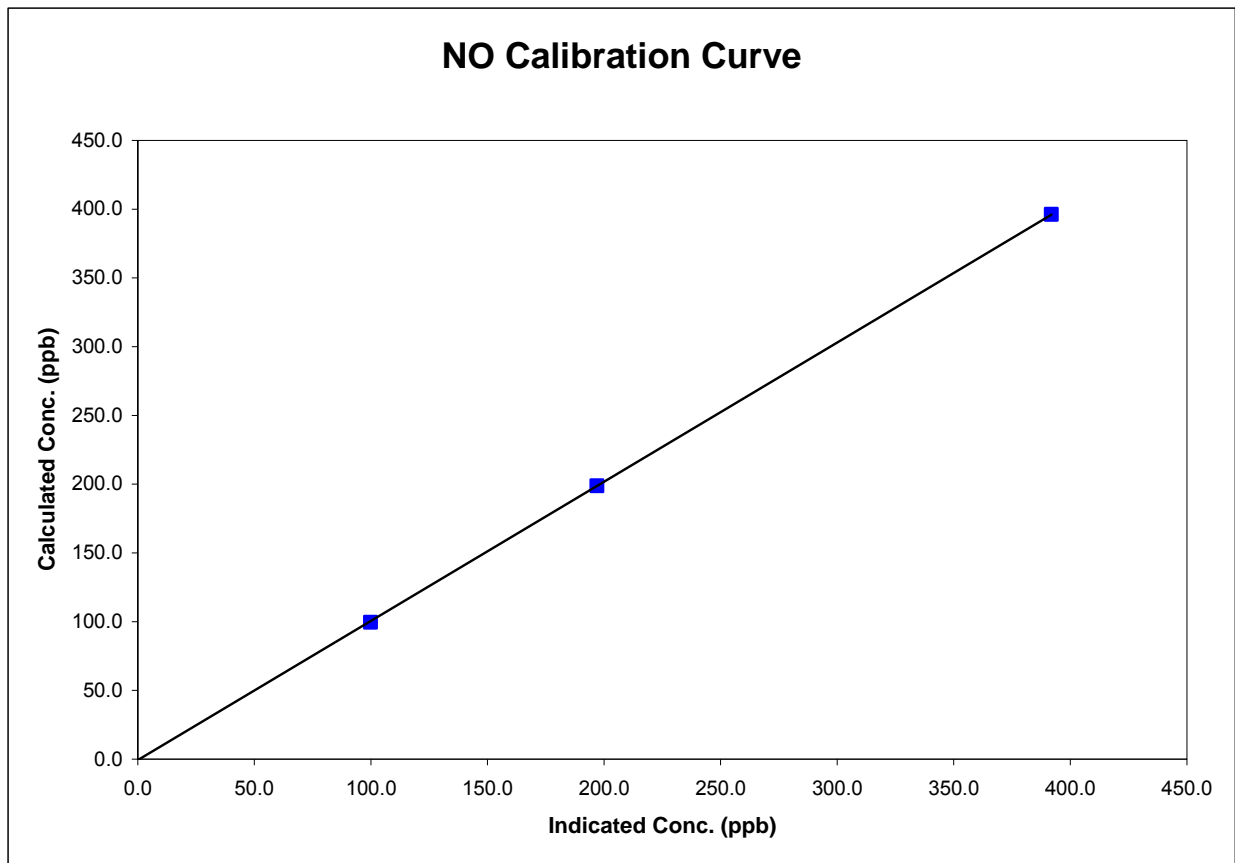


Station Information

Calibration Date	September 27, 2007	Previous Calibration	August 23, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:50	End Time (MST)	15:05
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
396.3	392.0	1.0110	Correlation Coefficient	0.999980
198.7	197.0	1.0086		
99.6	99.9	0.9967	Slope	1.011422
			Intercept	-0.475727



Calibration ReportParameter **O3**Air Monitoring Network **PASZA****Station Information**

Calibration Date	October 1, 2007	Previous Calibration	August 24, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	8:50	End Time (MST)	11:30
Barometric Pressure	0.903 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.146396	Calculated slope	1.029635
Calculated intercept	-6.167398	Calculated intercept	2.459751
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.20	ppb	-0.20	ppb
slope	0.995		0.995	
Lamp temp	56.3	mV	56.4	mV
Lamp Intensity A/B	80176/77508	mV	81314/78630	mV
Pressure	650	mm Hg	642.8	mm Hg
Flow A	730	ccm	725	ccm
Flow B	684	ccm	677	ccm

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)
4992	0.00	0.0	0.2	N/A
4992	0.00	316.2	305.6	1.0347
4992	0.00	222.8	215.6	1.0335
4992	0.00	132.2	121.0	1.0927
4992	0.00	0.0	0.2	As found zero
4992	0.00	316.8	305.6	As found span
Average Correction Factor				1.0537

Calculated value of As Found Response: 343.9 ppm Percent Change of As Found: 8.6%

	before calibration		after calibration	
Auto zero	-6.4	ppb	2.5	ppb
Auto span	116.2	ppb	113.9	ppb

Notes: No Adjustments.Calibration Performed By: Conor Whiteley

Calibration Summary

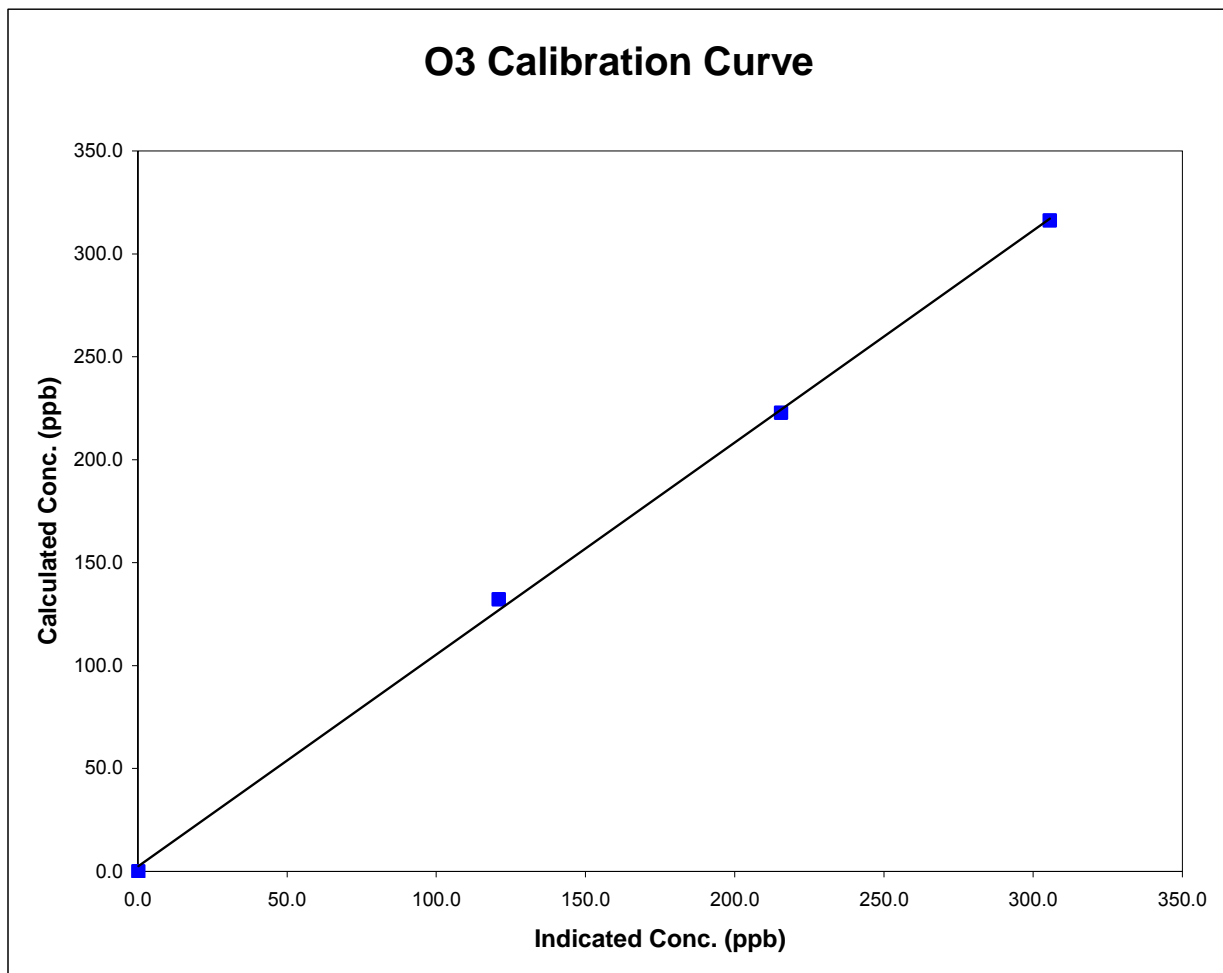
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

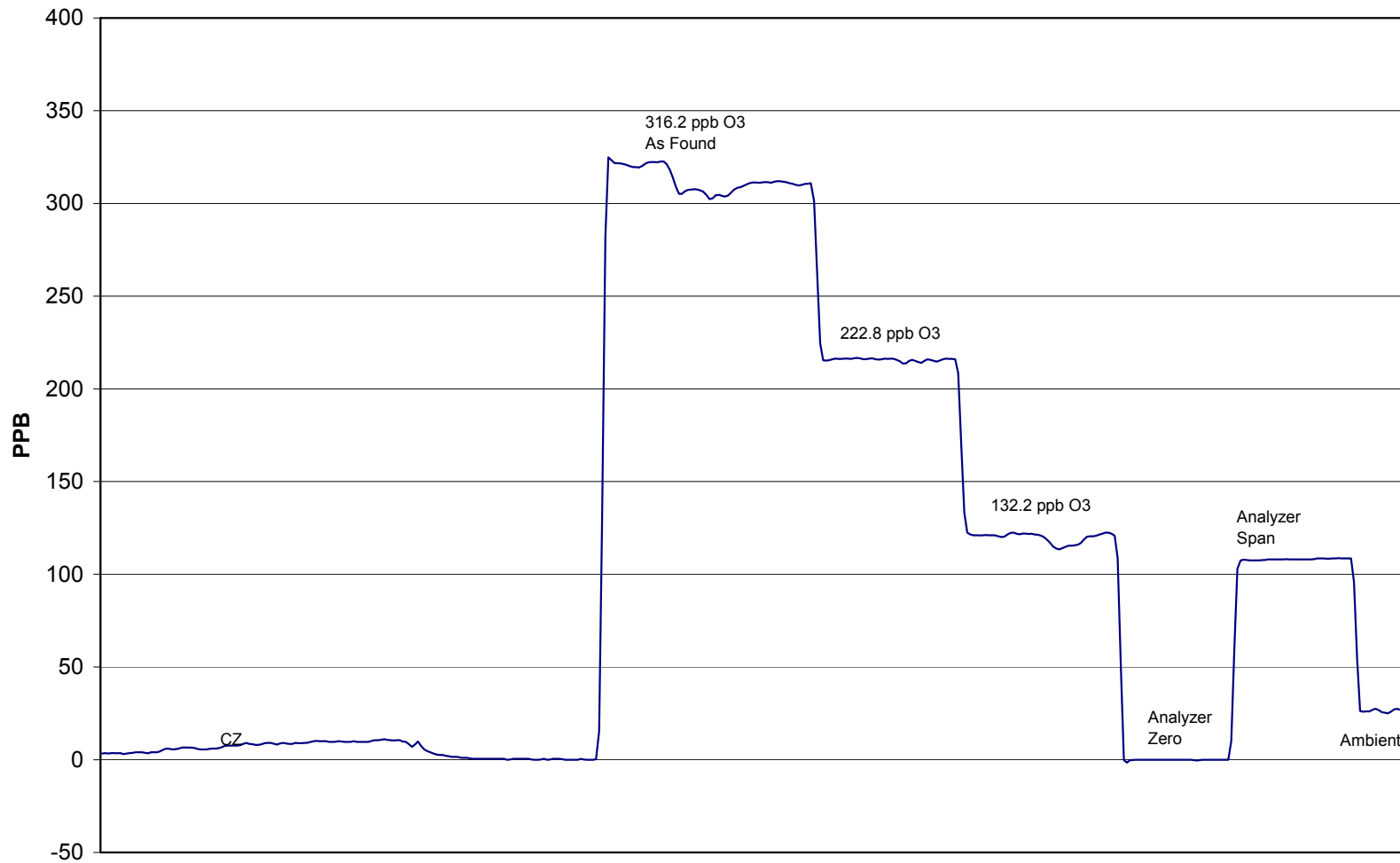
Calibration Date	October 1, 2007	Previous Calibration	August 24, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:50	End Time (MST)	11:30
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
316.2	305.6	1.0347	Correlation Coefficient	0.999316
222.8	215.6	1.0335		
132.2	121.0	1.0927	Slope	1.029635
			Intercept	2.459751



Beaverlodge O3 Calibration



October 1, 2007

Calibration Report

Parameter **PM2.5**
Air Monitoring Network **PASZA**



Station Information

Calibration Date	October 1, 2007	Previous Calibration	August 24, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:20	End Time (MST)	11:20
Barometric Pressure	0.903 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	10

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.68	SLPM	13.68	SLPM
Filter Load	16	%	16	%
Ko Factor	14287		14287	
Temperature	19.6	Deg C	19.6	Deg C
Pressure	0.919	ATM	0.919	ATM

Calibration Data

Parameter	Set Point	Teom Reading (As Found)	Tolerance	Teom Reading (After Adjustments)
zero flow - main	0.0	0.00		0.01
zero flow - auxiliary	0.0	0.01		0.01
flow recovery - main	45 - 60 Seconds	40.00	45 - 60 Seconds	34.00
flow recovery - aux	46 - 60 Seconds	50.00	46 - 60 Seconds	48.00
Temperature	measured	6.7	+/- 1.0 Deg C	6.3
Pressure	measured	0.903	+/- 1.5% Δ ATM	0.902
Total Flow	16.67 SLPM	16.69		16.45
Auxiliary Flow	13.67 SLPM	13.72	+/- 1.0 SLPM	13.44
Main Flow	3.0 SLPM	3.026	+/- 0.2 SLPM	3.010
Leak Check - main	0.0	-0.01	<0.15 SLPM	0.01
Leak Check - aux	0.0	0.07	<0.15 SLPM	0.06
Ko Factor (w/o filter)	measured	350.047	filter weight (g)	0.10931
Ko Factor (w/ filter)	measured	251.277	% Ko difference	0.3%

Notes: No adjustments made

Calibration Performed By: Conor Whiteley

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	8:50	End Time (MST)	11:34
Barometric Pressure	27.43 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	NA	Calculated slope	0.998644
Calculated intercept	NA	Calculated intercept	-1.247031
Analyzer make	TEI 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	NA		7.9	
Coefficient	NA		1.137	
UV Lamp Voltage	NA	V	743	V
Chamber Temp	NA	C	44.3	C
Perm Gas Temp	NA	C	45	C
Pressure	NA	mm Hg	674	mm Hg
Sample Flow	NA	LPM	486	LPM
Lamp Intesity	NA	Hz	34449	Hz

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)
4992	0.00	0.0	0.1	N/A
4992	39.75	397.4	398.6	0.9968
4992	19.89	199.6	201.5	0.9907
4992	9.93	99.8	102.6	0.9733
4992	0.00	0.0		As found zero
4992	39.94	399.2		As found span
Average Correction Factor				0.9869

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppm	-0.8	ppm
Auto span	NA	ppm	245.1	ppm

Notes:

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

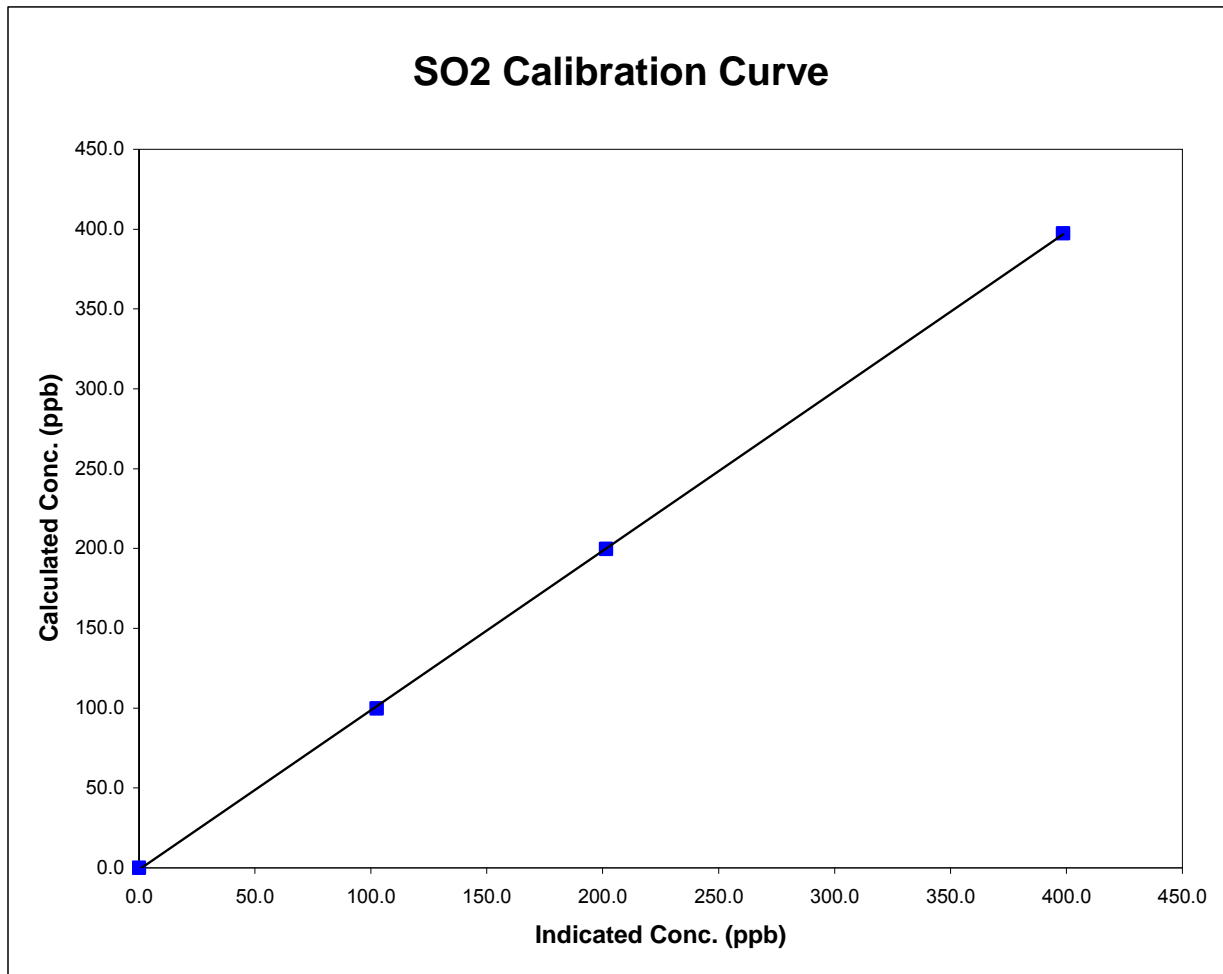


Station Information

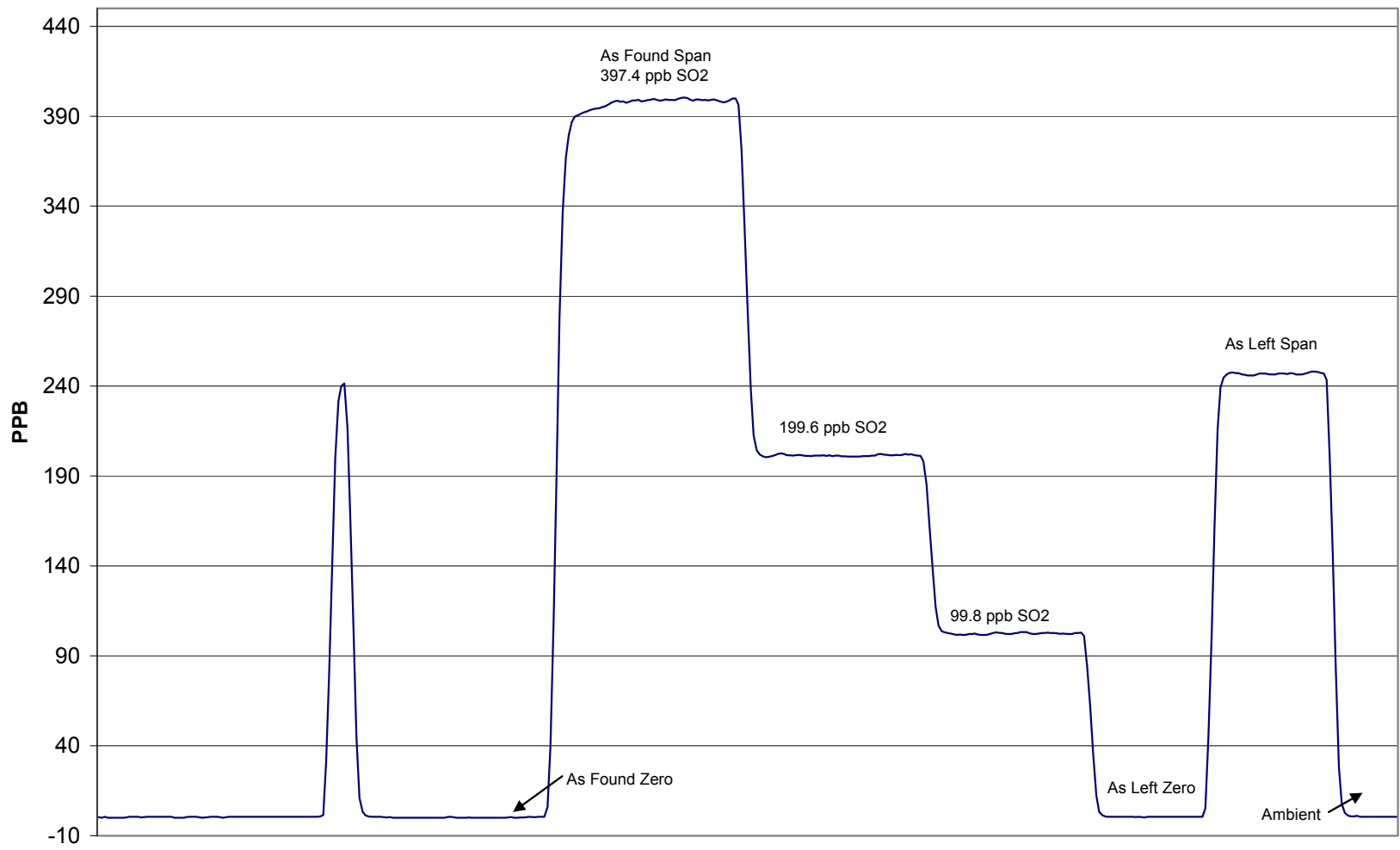
Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	11:34
Analyzer make/model	TEI 43C APS1AB	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
397.4	398.6	0.9968	Correlation Coefficient	0.999958
199.6	201.5	0.9907		
99.8	102.6	0.9733	Slope	0.998644
			Intercept	-1.247031



Portable - Spirit River SO2 Calibration



September 20, 2007

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	6	Station Location	Portable Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	13:40	End Time (MST)	16:27
Barometric Pressure	28.0 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	NA	Calculated slope	1.001617
Calculated intercept	NA	Calculated intercept	0.908086
Analyzer make	TEI 43C MOD	Analyzer serial #	609716238

	before		after	
Concentration range	NA	ppb	0 - 100	ppb
Background	NA	ppb	4.8	ppb
Coefficient	NA		1.055	
Lamp Voltage	NA	V	801	V
Chamber Temp	NA	C	43.9	C
Perm gas Temp	NA	C	45	C
Pressure	NA	mmHg	675	mmHg
Sample Flow	NA	ccm	441	ccm
Lamp Intensity	NA	Hz	38522.0	Hz

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)
4992	0.0	0.0	-0.6	N/A
4992	69.85	70.9	70.0	1.0134
4992	39.93	40.8	39.7	1.0262
4992	9.96	10.2	9.0	1.1371
4992	0.00	0.0	-0.6	As found zero
4992	79.86	80.9	70.0	As found span
Average Correction Factor				1.0589

Calculated value of As Found Response: NA ppm Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppm	0.4	ppm
Auto span	NA	ppm	48.6	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

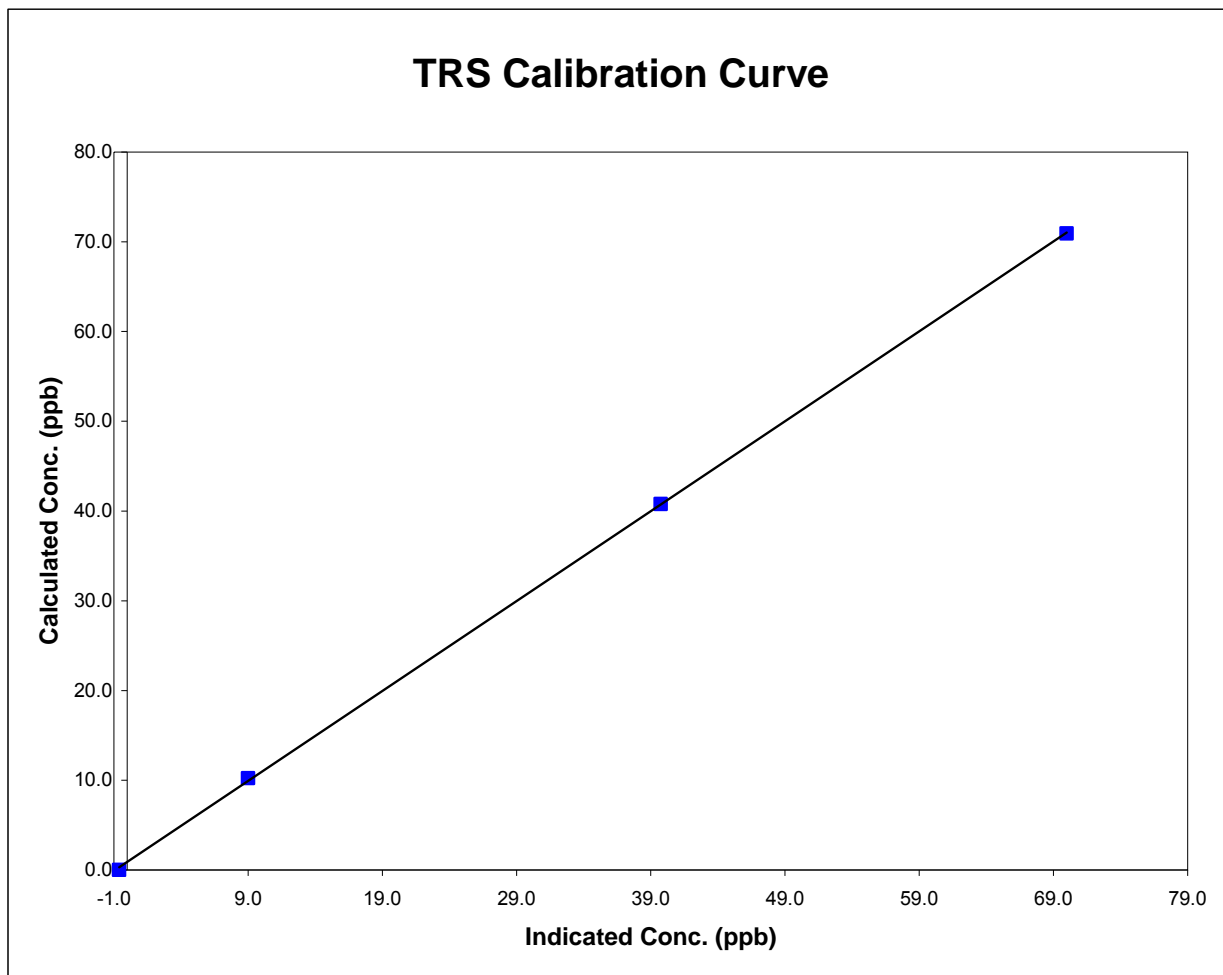


Station Information

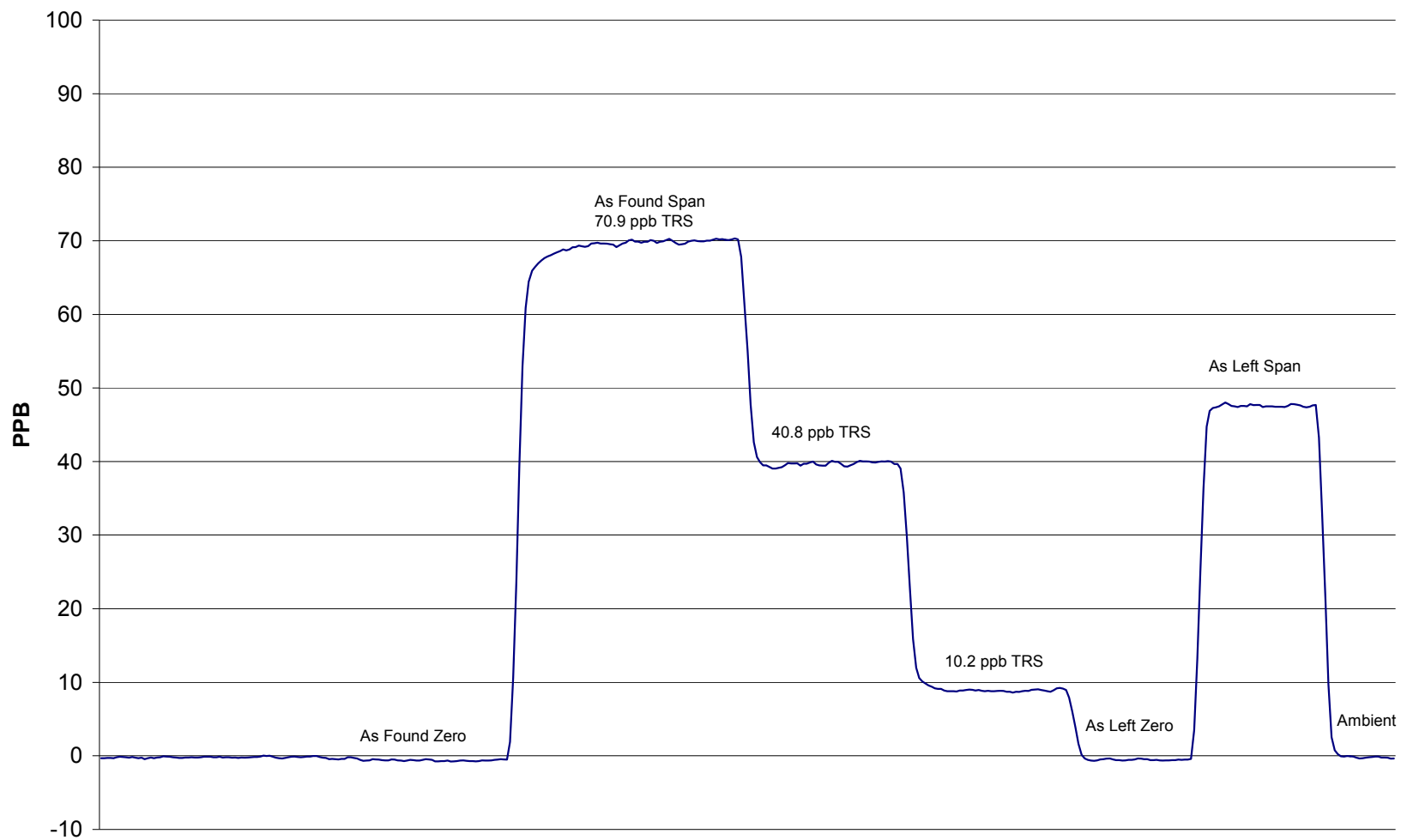
Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	6	Station Location	Portable Spirit River
Start Time (MST)	13:40	End Time (MST)	16:27
Analyzer make/model	TEI 43C MOD	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.6	N/A		
70.9	70.0	1.0134	Correlation Coefficient	0.999936
40.8	39.7	1.0262		
10.2	9.0	1.1371	Slope	1.001617
			Intercept	0.908086



Portable - Spirit River TRS Calibration



September 20, 2007

Calibration Report

Parameter **O3**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	12:05	End Time (MST)	14:32
Barometric Pressure	0.937 atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	NA	Calculated slope	0.992987
Calculated intercept	NA	Calculated intercept	-5.650203
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	NA	ppb	0-500	ppb
Offset	NA	ppb	0.2	ppb
Span	NA		1.022	
Cell A	NA	Hz	81360	Hz
Cell B	NA	Hz	80,638	Hz
Pressure	NA	in Hg	688	in Hg
CellA Flow	NA	ccm	667	ccm
Cell B Flow	NA	cmm	669	cmm

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)
4992	0.00	0.0	0.3	N/A
4992	300.00	308.9	314.7	0.9815
4992	200.00	214.3	217.0	0.9878
4992	100.00	117.8	136.3	0.8640
4992	0.00	0.0	0.3	As found zero
4992	0.00	300.0	314.7	As found span
Average Correction Factor				0.9444

Calculated value of As Found Response: NA ppm Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppb	-7.7	ppb
Auto span	NA	ppb	327.1	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary



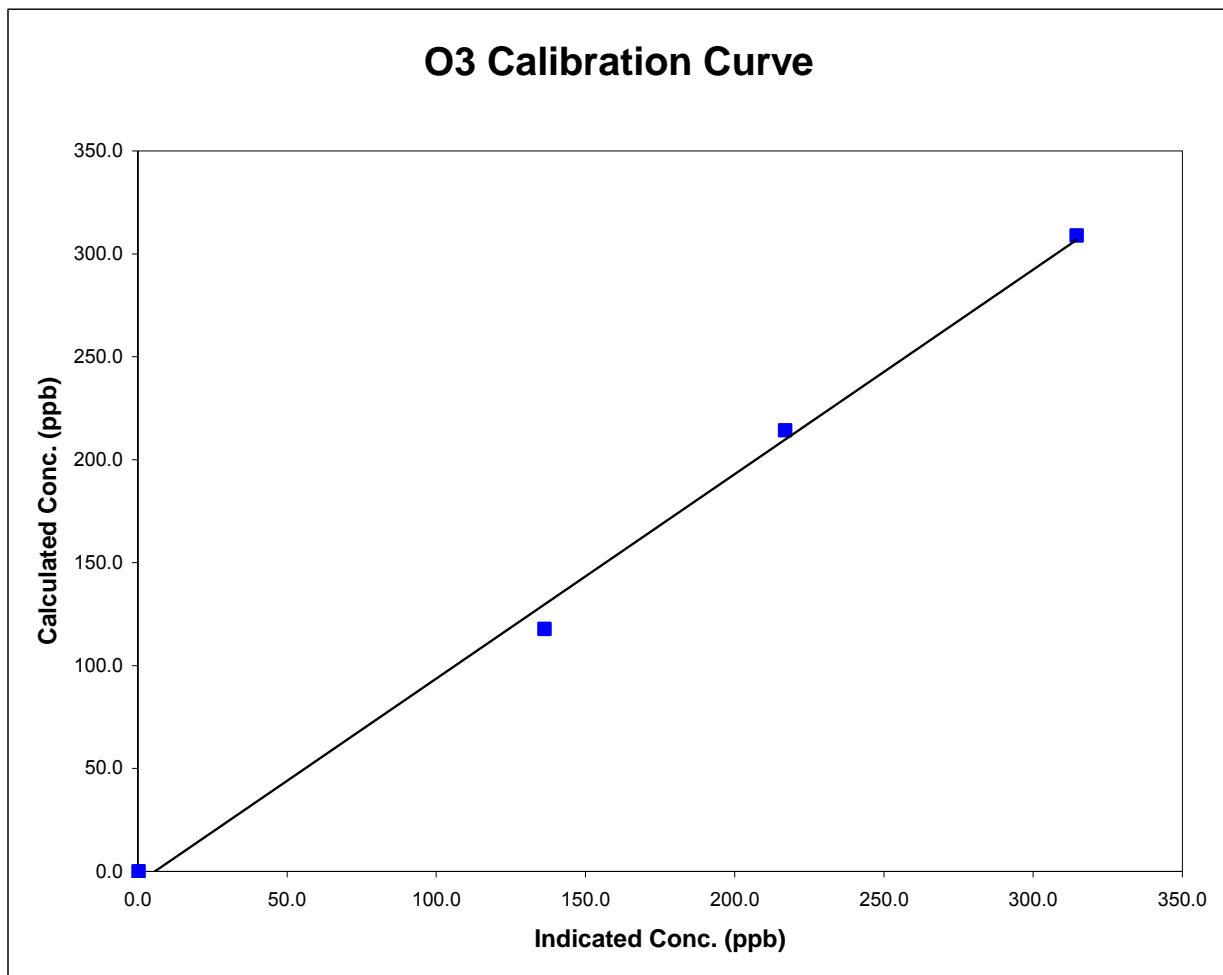
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

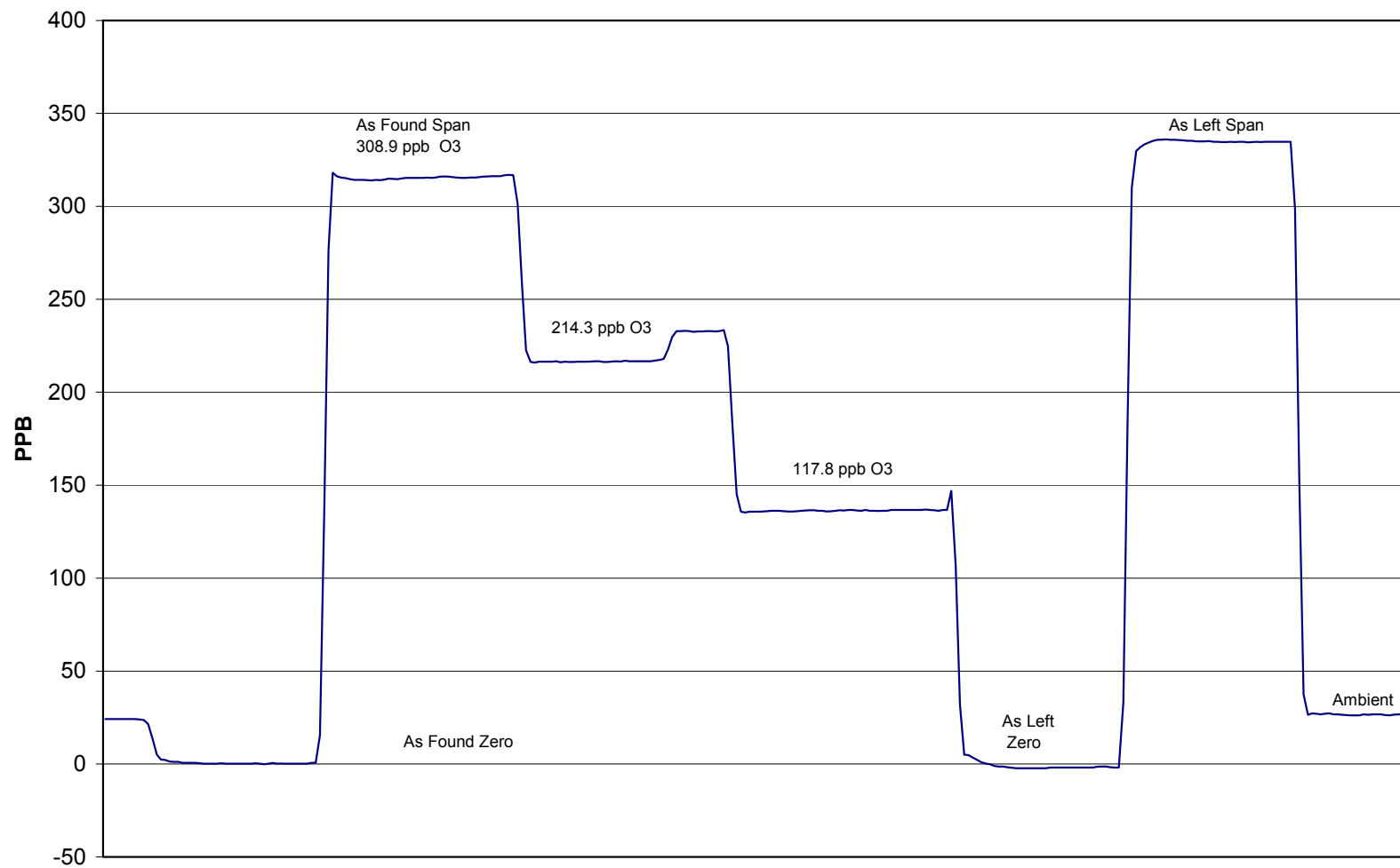
Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:05	End Time (MST)	14:32
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	NA		
308.9	314.7	0.9815	Correlation Coefficient	0.996270
214.3	217.0	0.9878		
117.8	136.3	0.8640	Slope	0.992987
			Intercept	-5.650203



Portable - Spirit River O3 Calibration



Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Reason:	Routine <input type="checkbox"/> Installation <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Other: _____		
Start Time (MST)	8:50	End Time (MST)	13:17
Barometric Pressure	27.43 Inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-16161

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	52662
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Parameter		NO2	NOx	NO
Before	Data Slope	NA	NA	NA
	Data Offset	NA	NA	NA
After	Data Slope	0.996721	1.000107	1.000921
	Data Offset	-1.394613	-3.692769	-3.317014
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	API Model 200E	Analyzer serial #	219
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	NA	ppb	4.1	mV
NOx background	NA	ppb	4.3	mV
NO coefficient	NA		0.661	
NOx coefficient	NA		0.999	
Chamber Temp	NA	Deg C	50.1	Deg C
Cooler Temp	NA	Deg C	-2.6	Deg C
NO2 Converter Temp	NA	Deg C	325.8	Deg C
Sample Flow	NA	ccm	673.0	ccm
Ozonator Flow	NA	LPM	OK	LPM
Pressure	NA	mm Hg	157.2	mm Hg

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report



Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date: **September 20, 2007** Station Location: **Rover - Spirit River**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	0.3	0.2	0.2	N/A	N/A	
1	4992	39.75	386.3	386.3	0.0	386.8	386.6	1.0	0.9988	0.9994	
2	4992	19.89	194.1	194.1	0.0	197.2	197.3	0.8	0.9843	0.9837	
3	4992	9.93	97.0	97.0	0.0	101.2	101.2	0.7	0.9591	0.9588	
AFZ											
AFS											
									Average Correction Factor	0.9807	0.9806

As Found Concentrations: NO_x= NA NO= NA As Found Percent Change NO_x= NA NO= NA

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.94 ccm

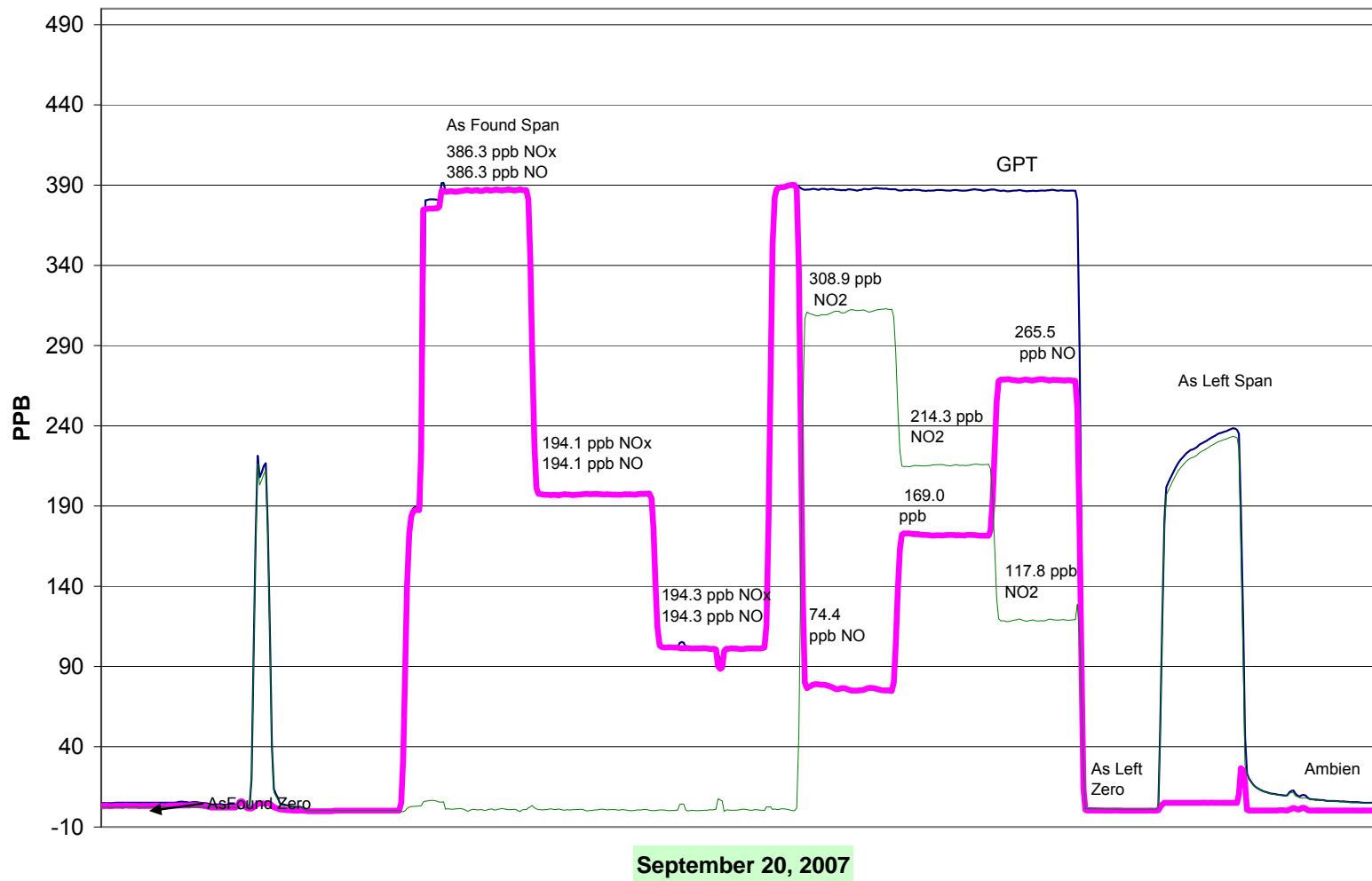
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	383.3	386.4	-3.1	389.4	389.3	0.8	0.9843	0.9924	N/A	N/A	
300	383.3	74.4	308.9	387.4	77.7	309.9	0.9895	0.9582	0.9967	100.3%	
200	383.3	169.0	214.3	386.8	172.1	215.3	0.9908	0.9816	0.9954	100.5%	
100	383.3	265.5	117.8	386.6	268.6	118.9	0.9914	0.9886	0.9907	100.9%	
							Average Correction Factor	0.9906	0.9761	0.9943	100.6%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	NA	NA	NA	ppb	NA	NA	NA	ppb
Auto span	NA	NA	NA	ppb	225.4	222.0	1.8	ppb

Calibration Performed By: Conor Whiteley

Portable - Spirit River NOx Calibration



Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **PASZA**

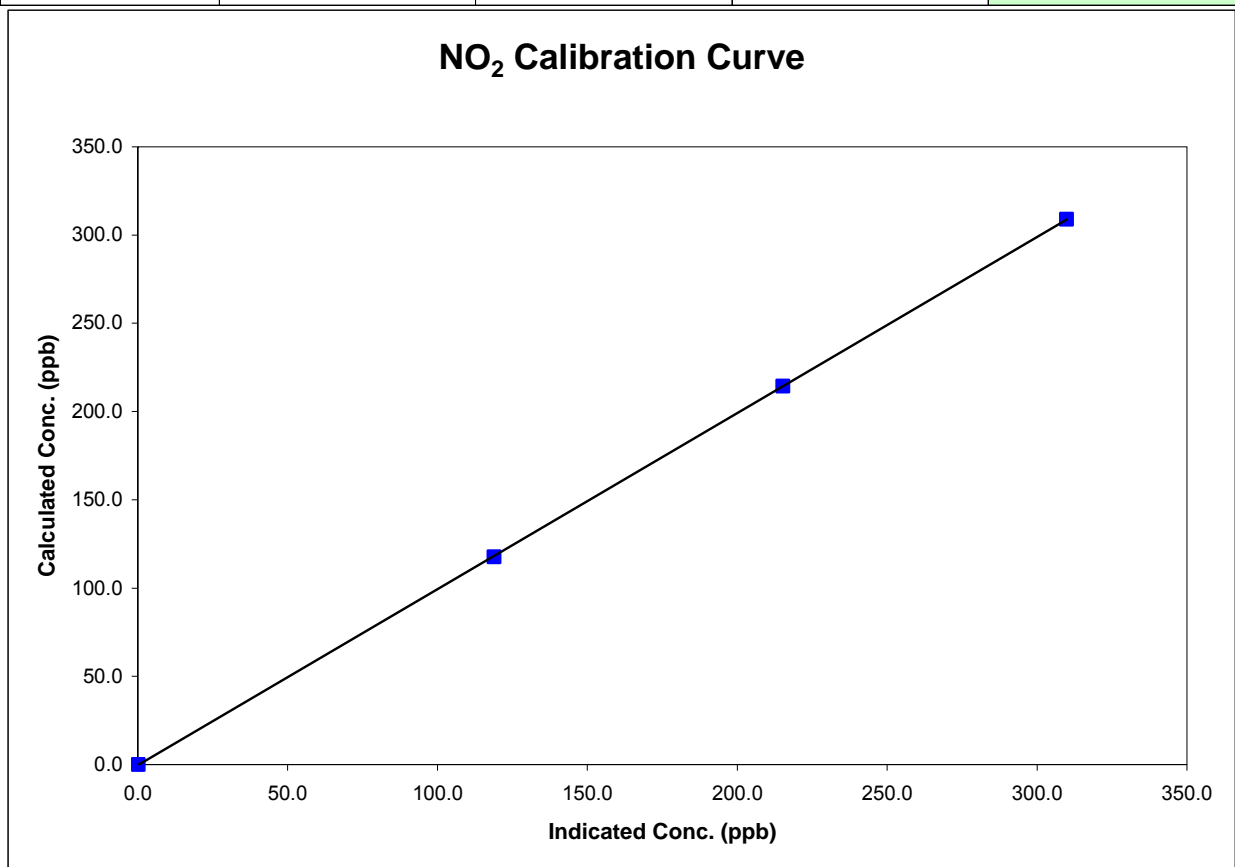


Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:17
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999996
308.9	309.9	0.9967		
214.3	215.3	0.9954	Slope	0.997700
117.8	118.9	0.9907		
			Intercept	-0.468498



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

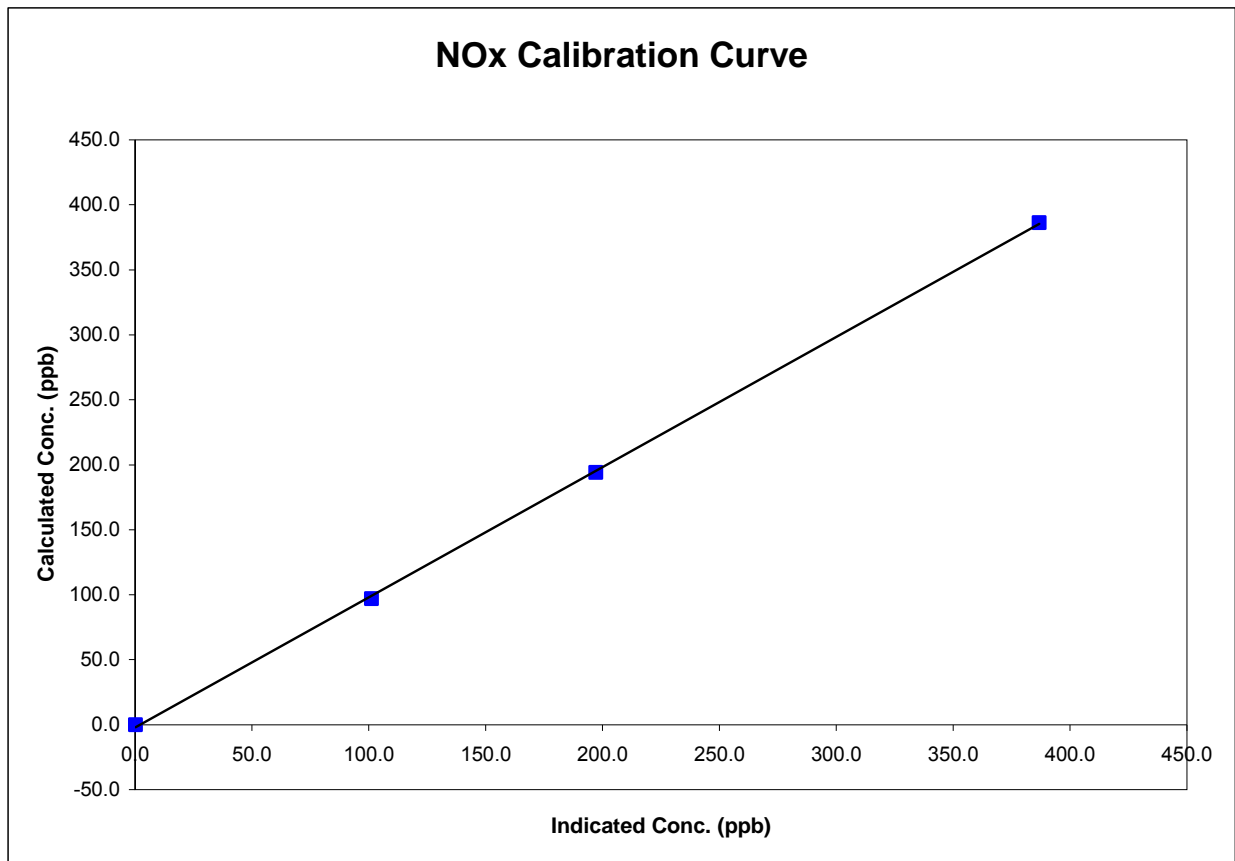


Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:17
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000		
386.3	386.8	0.9988	Correlation Coefficient	0.999867
194.1	197.2	0.9843		
97.0	101.2	0.9591	Slope	1.001947
			Intercept	-2.323353



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**

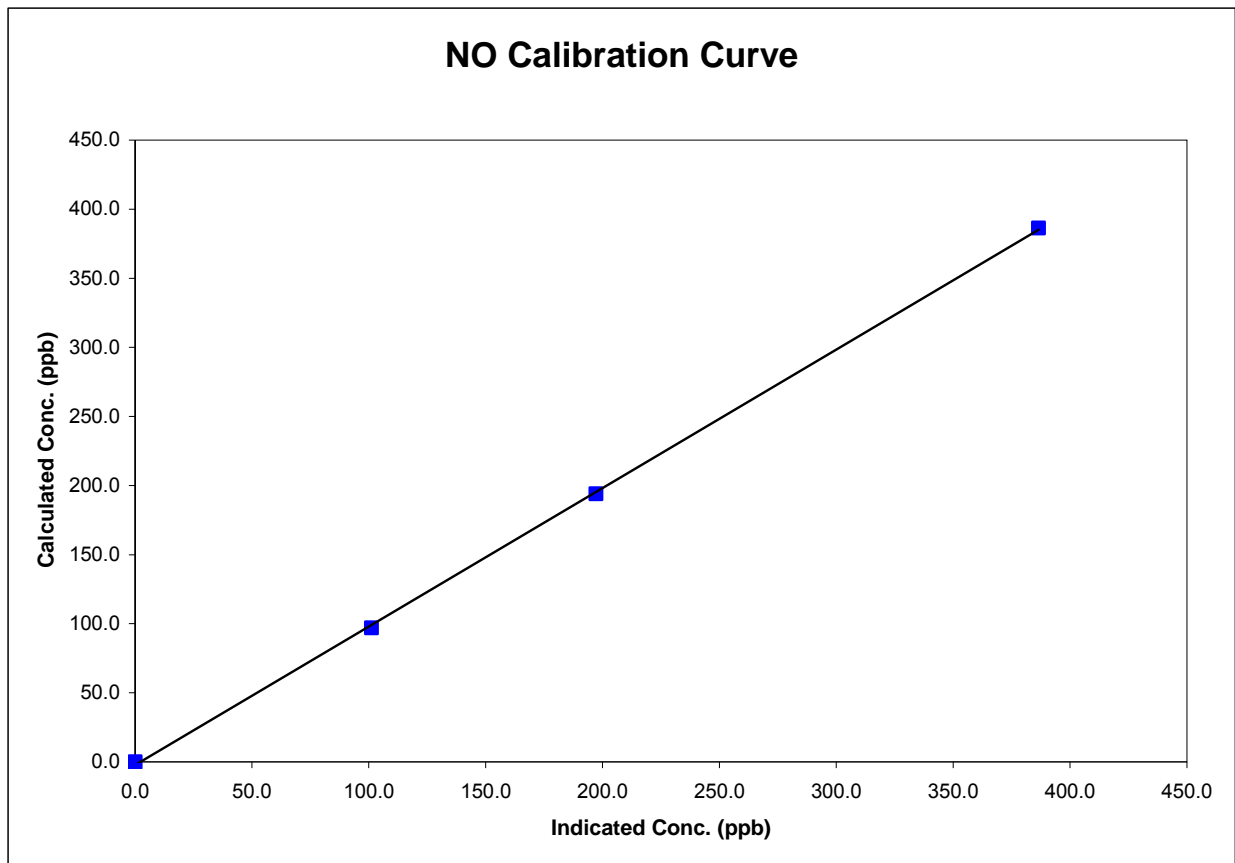


Station Information

Calibration Date	September 20, 2007	Previous Calibration	NA
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:17
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
386.3	386.6	0.9994	Correlation Coefficient	0.999849
194.1	197.3	0.9837		
97.0	101.2	0.9588		
			Slope	1.002285
			Intercept	-2.335018



Calibration ReportParameter **SO2**Air Monitoring Network **PASZA****Station Information**

Calibration Date	September 11, 2007	Previous Calibration	July 26, 2007
Station Number	6	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:40	End Time (MST)	19:20
Barometric Pressure	27.72 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL16161		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.993487	Calculated slope	1.002667
Calculated intercept	-3.158269	Calculated intercept	0.075192
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28.1		32.7	
Coefficient	0.797		0.876	
UV Lamp Voltage	691	LPM	691	LPM
Chamber Temp	44.1	V	44.3	V
Perm Gas Temp	30.5(?)	C	30.5	C
Pressure	630.5	in Hg	639.6	in Hg
Sample Flow	0.469	LPM	0.474	LPM
Lamp Intesity	44915	Hz	45776	Hz

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)
4993	0.00	0.0	-0.8	N/A
4993	39.84	398.2	396.3	1.0048
4993	19.96	200.3	201.2	0.9954
4992	9.99	100.5	100.1	1.0038
4992	0.00	0.0	1.6	As found zero
4992	39.94	399.2	473.1	As found span
Average Correction Factor				1.0013

Calculated value of As Found Response: 465.224 ppm Percent Change of As Found: -16.5%

	before calibration		after calibration	
Auto zero	-2.5	ppm	-0.2	ppm
Auto span	990.3	ppm	986.2	ppm

Notes: Adjusted Zero, Adjusted Span...Calibration Performed By: Conor Whiteley

Calibration Summary

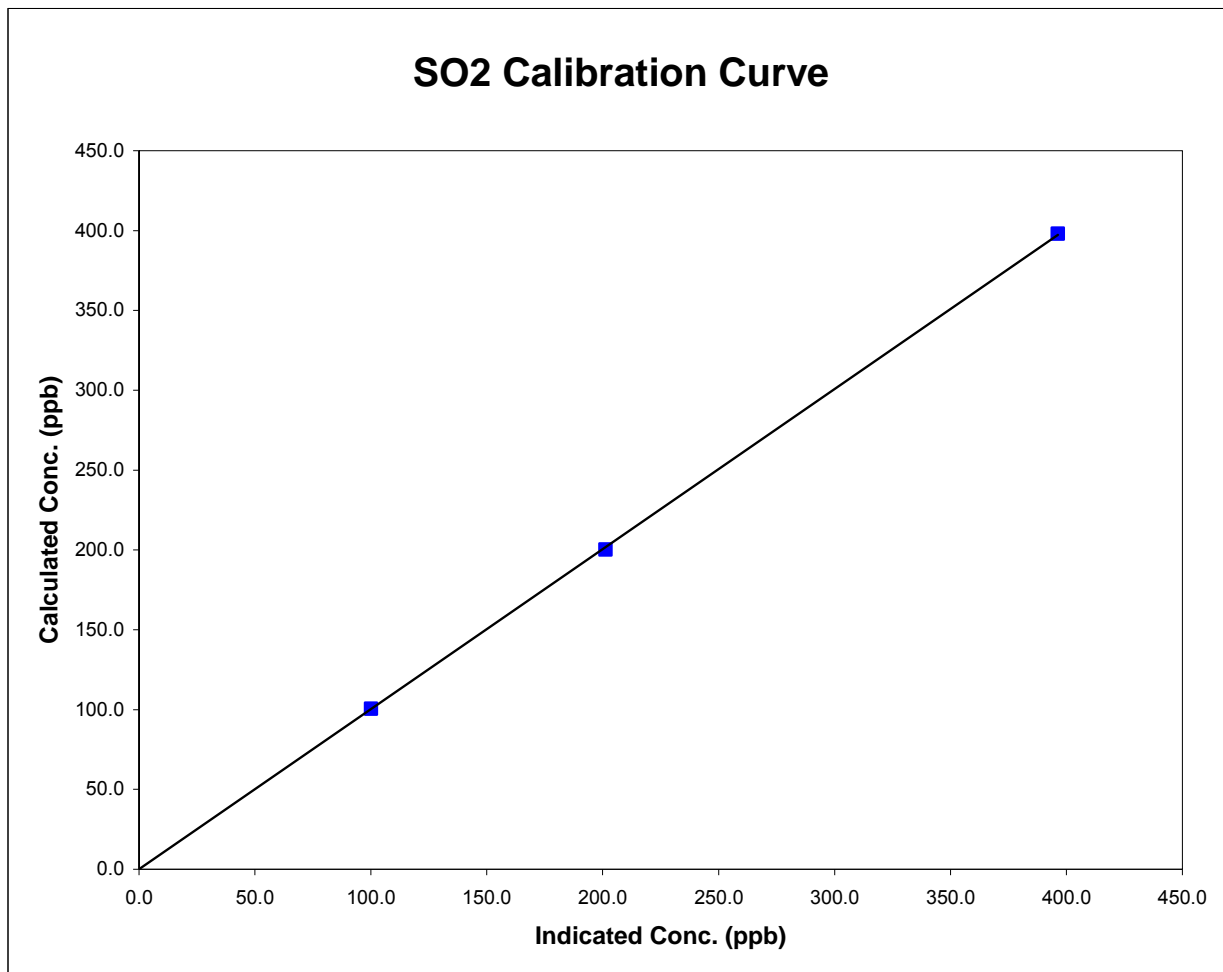
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

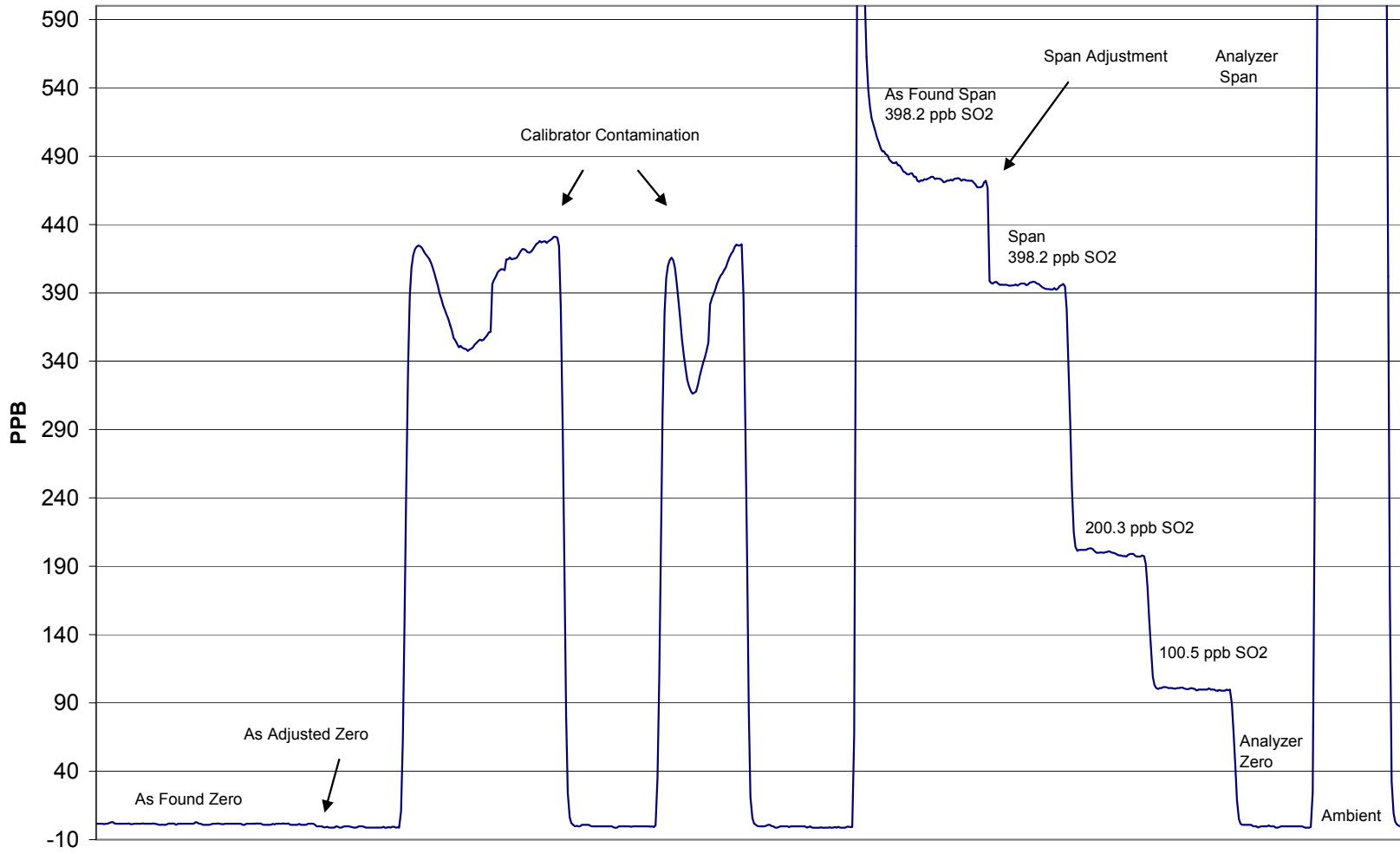
Calibration Date	September 11, 2007	Previous Calibration	July 26, 2007
Station Number	6	Station Location	Valleyview
Start Time (MST)	13:40	End Time (MST)	19:20
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.8	N/A		
398.2	396.3	1.0048	Correlation Coefficient	0.999960
200.3	201.2	0.9954		
100.5	100.1	1.0038	Slope	1.002667
			Intercept	0.075192



Valleyview SO2 Calibration



September 11, 2007

Calibration Report

Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

Calibration Date	September 11, 2007	Previous Calibration	August 15, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:00	End Time (MST)	14:45
Barometric Pressure	27.72 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.016105	Calculated slope	0.998332
Calculated intercept	0.031971	Calculated intercept	0.485601

Analyzer make **TEI Model 43A** Analyzer serial # **43A-25575-221**

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.8	ppb	4.8	ppb
Coefficient	1.055		1.055	
Lamp Voltage	805	V	805	V
Chamber Temp	45	c	45.1	c
Perm Oven Temp	45	c	45	c
Pressure	653	mm Hg	651	mm Hg
Sample Flow	436	ccm	434	ccm
Lamp Intensity	90.0	%	91.0	%

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)
4992	0.00	0.0	-0.3	N/A
4998	69.78	70.8	70.5	1.0036
4992	39.83	40.7	40.1	1.0144
4992	9.96	10.2	9.6	1.0694
4992	0.00	0.0	-0.3	As found zero
4992	69.88	71.0	70.5	As found span
Average Correction Factor				1.0291

Calculated value of As Found Response: **71.95 ppm** Percent Change of As Found: **-1.4%**

	before calibration		after calibration	
Auto zero	0.1	ppm	0.2	ppm
Auto span	66.4	ppm	67.6	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

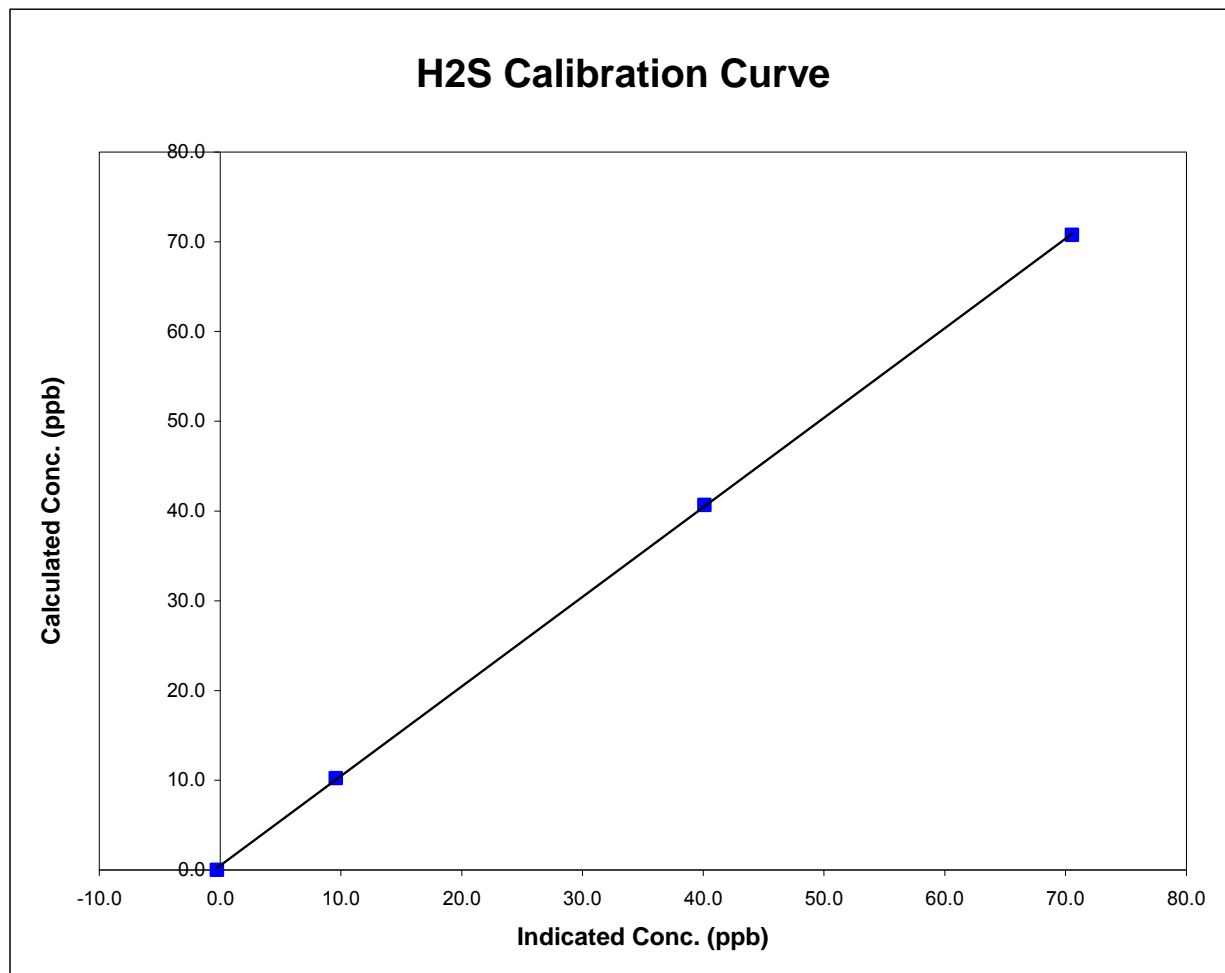
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

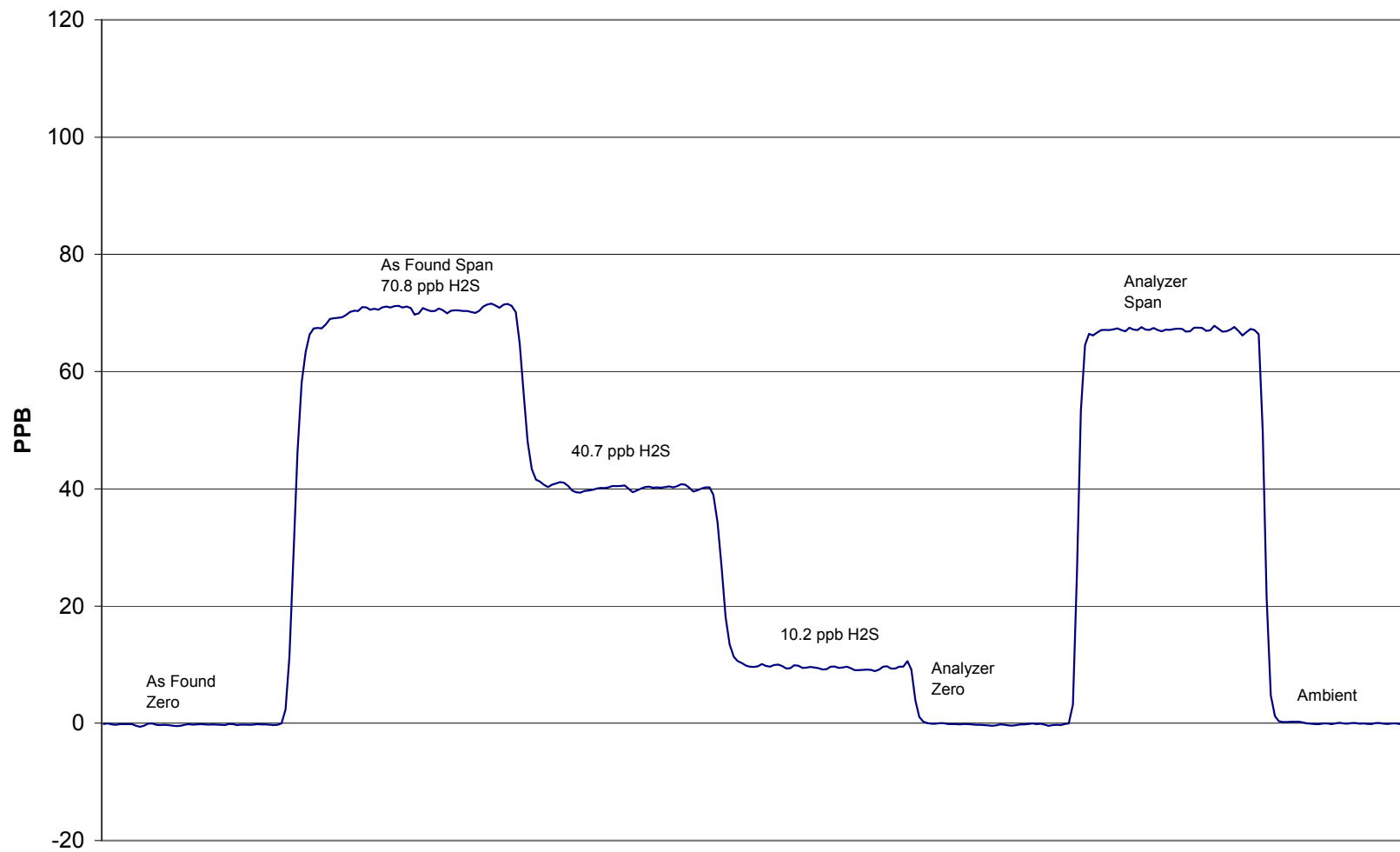
Calibration Date	September 11, 2007	Previous Calibration	August 15, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	12:00	End Time (MST)	14:45
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
70.8	70.5	1.0036	Correlation Coefficient	0.999957
40.7	40.1	1.0144		
10.2	9.6	1.0694	Slope	0.998332
			Intercept	0.485601



Valleyview H2S Calibration



September 11, 2007